TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 180-43702-1

Job Description: Sparrows Point Trust Offshore Investigat

For:
EA Engineering, Science, and Technology
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Attention: Sanita Corum

Approved for release.
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5/26/2015 10:20 AM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

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.

General Chemistry

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.

Glossary

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

CASE NARRATIVE

Client: EA Engineering, Science, and Technology

Project: Sparrows Point Trust Offshore Investigation

Report Number: 180-43702-1

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

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

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

RECEIPT
The samples were received on 05/02/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 1.2º C, 1.9º C, 2.4º C, 2.6º C, 3.8º C, 3.9º C, 4.1º C, 5.9º C and 5.9º C.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

VOLATILES
The following samples were analyzed outside of analytical holding time by less than 24 hours: RB-01 (180-43702-1), FB-01 (180-43702-2). The analyses are marked with H qualifiers and reported.

Methylene Chloride was detected in method blank MB 180-141065/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

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

PCB
DCB Decachlorobiphenyl (Surr) failed the surrogate recovery criteria high for FB-01 (180-43702-2) and LCSD 180-140615/5-A. All other surrogate recoveries were within QC limits and all data was reported.

The following samples required a sulfuric acid and TBA clean-ups to reduce sample matrix interferences: RB-01 (180-43702-1), FB-01 (180-43702-2), RB-02 (180-43702-3), FB-02 (180-43702-4), (LCS 180-140615/4-A), (LCSD 180-140615/5-A) and (MB 180-140615/1-A).

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

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

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

Client Sample ID: RB-01 — Lab Sample ID: 180-43702-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	7.1		1.9	0.41	ug/L	1		8270D LL	Total/NA
Butyl benzyl phthalate	0.22	J	0.93	0.20	ug/L	1		8270D LL	Total/NA
Chromium	0.57	J	2.0	0.54	ug/L	1		6020A	Total Recoverable
Lead	0.18	J	1.0	0.019	ug/L	1		6020A	Total Recoverable
Zinc	5.0		5.0	0.96	ug/L	1		6020A	Total Recoverable
Copper	0.72	J	2.0	0.24	ug/L	1		6020A	Total Recoverable
HEM (Oil & Grease)	1.2	J	6.1	1.2	mg/L	1		1664A	Total/NA

Client Sample ID: FB-01 — Lab Sample ID: 180-43702-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	2.8		1.9	0.41	ug/L	1		8270D LL	Total/NA
Butyl benzyl phthalate	0.76	J	0.93	0.20	ug/L	1		8270D LL	Total/NA
Chromium	0.60	J	2.0	0.54	ug/L	1		6020A	Total Recoverable
Lead	0.15	J	1.0	0.019	ug/L	1		6020A	Total Recoverable
Zinc	6.0		5.0	0.96	ug/L	1		6020A	Total Recoverable
Copper	0.57	J	2.0	0.24	ug/L	1		6020A	Total Recoverable

Client Sample ID: RB-02 — Lab Sample ID: 180-43702-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.045	J	0.19	0.028	ug/L	1		8270D LL	Total/NA
Benzo[g,h,i]perylene	0.041	J	0.19	0.027	ug/L	1		8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	9.1		1.9	0.41	ug/L	1		8270D LL	Total/NA
Butyl benzyl phthalate	0.33	J	0.93	0.20	ug/L	1		8270D LL	Total/NA
Dibenz(a,h)anthracene	0.045	J	0.19	0.025	ug/L	1		8270D LL	Total/NA
Naphthalene	0.059	J	0.19	0.021	ug/L	1		8270D LL	Total/NA
Arsenic	0.31	J	1.0	0.29	ug/L	1		6020A	Total Recoverable
Lead	0.19	J	1.0	0.019	ug/L	1		6020A	Total Recoverable
Zinc	4.1	J	5.0	0.96	ug/L	1		6020A	Total Recoverable
Copper	0.58	J	2.0	0.24	ug/L	1		6020A	Total Recoverable

Client Sample ID: FB-02 — Lab Sample ID: 180-43702-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	1.5	J	1.9	0.42	ug/L	1		8270D LL	Total/NA
Butyl benzyl phthalate	0.35	J	0.96	0.21	ug/L	1		8270D LL	Total/NA
Phenol	0.14	J	0.96	0.053	ug/L	1		8270D LL	Total/NA
Chromium	1.3	J	2.0	0.54	ug/L	1		6020A	Total Recoverable
Lead	0.020	J	1.0	0.019	ug/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

Client Sample ID: FB-02 (Continued) — Lab Sample ID: 180-43702-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	9.0		5.0	0.96	ug/L	1		6020A	Total Recoverable
Copper	0.40	J	2.0	0.24	ug/L	1		6020A	Total Recoverable

Client Sample ID: TRIP BLANK — Lab Sample ID: 180-43702-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: RB-01
Date Collected: 04/30/15 17:30
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	5.0	1.0	ug/L			05/08/15 14:51	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	0.93	ug/L			05/08/15 14:51	1
1,1,2-Trichloroethane	ND	H	5.0	1.2	ug/L			05/08/15 14:51	1
1,1-Dichloroethane	ND	H	5.0	1.0	ug/L			05/08/15 14:51	1
1,1-Dichloroethene	ND	H	5.0	1.1	ug/L			05/08/15 14:51	1
1,2-Dichlorobenzene	ND	H	5.0	0.68	ug/L			05/08/15 14:51	1
1,2-Dichloroethane	ND	H	5.0	0.96	ug/L			05/08/15 14:51	1
1,2-Dichloropropane	ND	H	5.0	1.3	ug/L			05/08/15 14:51	1
1,3-Dichlorobenzene	ND	H	5.0	0.51	ug/L			05/08/15 14:51	1
1,4-Dichlorobenzene	ND	H	5.0	0.53	ug/L			05/08/15 14:51	1
2-Chloroethyl vinyl ether	ND	H	10	1.9	ug/L			05/08/15 14:51	1
Acrolein	ND	H	100	5.7	ug/L			05/08/15 14:51	1
Acrylonitrile	ND	H	50	9.0	ug/L			05/08/15 14:51	1
Benzene	ND	H	5.0	0.99	ug/L			05/08/15 14:51	1
Bromoform	ND	H	5.0	1.1	ug/L			05/08/15 14:51	1
Bromomethane	ND	H	5.0	1.6	ug/L			05/08/15 14:51	1
Carbon tetrachloride	ND	H	5.0	1.1	ug/L			05/08/15 14:51	1
Chlorobenzene	ND	H	5.0	0.53	ug/L			05/08/15 14:51	1
Chloroform	ND	H	5.0	1.0	ug/L			05/08/15 14:51	1
Chloromethane	ND	H	5.0	1.4	ug/L			05/08/15 14:51	1
Chlorodibromomethane	ND	H	5.0	0.65	ug/L			05/08/15 14:51	1
cis-1,3-Dichloropropene	ND	H	5.0	0.73	ug/L			05/08/15 14:51	1
Dichlorobromomethane	ND	H	5.0	0.93	ug/L			05/08/15 14:51	1
Ethylbenzene	ND	H	5.0	0.62	ug/L			05/08/15 14:51	1
Methylene Chloride	ND	H	5.0	1.1	ug/L			05/08/15 14:51	1
Tetrachloroethene	ND	H	5.0	0.82	ug/L			05/08/15 14:51	1
Toluene	ND	H	5.0	0.85	ug/L			05/08/15 14:51	1
trans-1,2-Dichloroethene	ND	H	5.0	0.75	ug/L			05/08/15 14:51	1
trans-1,3-Dichloropropene	ND	H	5.0	0.58	ug/L			05/08/15 14:51	1
Trichloroethene	ND	H	5.0	0.80	ug/L			05/08/15 14:51	1
Vinyl chloride	ND	H	5.0	1.3	ug/L			05/08/15 14:51	1
Chloroethane	ND	H	5.0	0.75	ug/L			05/08/15 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*62 - 123*		*05/08/15 14:51*	*1*
4-Bromofluorobenzene (Surr)	*78*		*75 - 120*		*05/08/15 14:51*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*05/08/15 14:51*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/08/15 14:51*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: FB-01
Date Collected: 04/30/15 17:45
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	5.0	1.0	ug/L			05/08/15 15:18	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	0.93	ug/L			05/08/15 15:18	1
1,1,2-Trichloroethane	ND	H	5.0	1.2	ug/L			05/08/15 15:18	1
1,1-Dichloroethane	ND	H	5.0	1.0	ug/L			05/08/15 15:18	1
1,1-Dichloroethene	ND	H	5.0	1.1	ug/L			05/08/15 15:18	1
1,2-Dichlorobenzene	ND	H	5.0	0.68	ug/L			05/08/15 15:18	1
1,2-Dichloroethane	ND	H	5.0	0.96	ug/L			05/08/15 15:18	1
1,2-Dichloropropane	ND	H	5.0	1.3	ug/L			05/08/15 15:18	1
1,3-Dichlorobenzene	ND	H	5.0	0.51	ug/L			05/08/15 15:18	1
1,4-Dichlorobenzene	ND	H	5.0	0.53	ug/L			05/08/15 15:18	1
2-Chloroethyl vinyl ether	ND	H	10	1.9	ug/L			05/08/15 15:18	1
Acrolein	ND	H	100	5.7	ug/L			05/08/15 15:18	1
Acrylonitrile	ND	H	50	9.0	ug/L			05/08/15 15:18	1
Benzene	ND	H	5.0	0.99	ug/L			05/08/15 15:18	1
Bromoform	ND	H	5.0	1.1	ug/L			05/08/15 15:18	1
Bromomethane	ND	H	5.0	1.6	ug/L			05/08/15 15:18	1
Carbon tetrachloride	ND	H	5.0	1.1	ug/L			05/08/15 15:18	1
Chlorobenzene	ND	H	5.0	0.53	ug/L			05/08/15 15:18	1
Chloroform	ND	H	5.0	1.0	ug/L			05/08/15 15:18	1
Chloromethane	ND	H	5.0	1.4	ug/L			05/08/15 15:18	1
Chlorodibromomethane	ND	H	5.0	0.65	ug/L			05/08/15 15:18	1
cis-1,3-Dichloropropene	ND	H	5.0	0.73	ug/L			05/08/15 15:18	1
Dichlorobromomethane	ND	H	5.0	0.93	ug/L			05/08/15 15:18	1
Ethylbenzene	ND	H	5.0	0.62	ug/L			05/08/15 15:18	1
Methylene Chloride	ND	H	5.0	1.1	ug/L			05/08/15 15:18	1
Tetrachloroethene	ND	H	5.0	0.82	ug/L			05/08/15 15:18	1
Toluene	ND	H	5.0	0.85	ug/L			05/08/15 15:18	1
trans-1,2-Dichloroethene	ND	H	5.0	0.75	ug/L			05/08/15 15:18	1
trans-1,3-Dichloropropene	ND	H	5.0	0.58	ug/L			05/08/15 15:18	1
Trichloroethene	ND	H	5.0	0.80	ug/L			05/08/15 15:18	1
Vinyl chloride	ND	H	5.0	1.3	ug/L			05/08/15 15:18	1
Chloroethane	ND	H	5.0	0.75	ug/L			05/08/15 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*62 - 123*		*05/08/15 15:18*	*1*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*05/08/15 15:18*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*05/08/15 15:18*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/08/15 15:18*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: RB-02
Date Collected: 05/01/15 15:00
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			05/08/15 15:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			05/08/15 15:54	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			05/08/15 15:54	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			05/08/15 15:54	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			05/08/15 15:54	1
1,2-Dichlorobenzene	ND		5.0	0.68	ug/L			05/08/15 15:54	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			05/08/15 15:54	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			05/08/15 15:54	1
1,3-Dichlorobenzene	ND		5.0	0.51	ug/L			05/08/15 15:54	1
1,4-Dichlorobenzene	ND		5.0	0.53	ug/L			05/08/15 15:54	1
2-Chloroethyl vinyl ether	ND		10	1.9	ug/L			05/08/15 15:54	1
Acrolein	ND		100	5.7	ug/L			05/08/15 15:54	1
Acrylonitrile	ND		50	9.0	ug/L			05/08/15 15:54	1
Benzene	ND		5.0	0.99	ug/L			05/08/15 15:54	1
Bromoform	ND		5.0	1.1	ug/L			05/08/15 15:54	1
Bromomethane	ND		5.0	1.6	ug/L			05/08/15 15:54	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			05/08/15 15:54	1
Chlorobenzene	ND		5.0	0.53	ug/L			05/08/15 15:54	1
Chloroform	ND		5.0	1.0	ug/L			05/08/15 15:54	1
Chloromethane	ND		5.0	1.4	ug/L			05/08/15 15:54	1
Chlorodibromomethane	ND		5.0	0.65	ug/L			05/08/15 15:54	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			05/08/15 15:54	1
Dichlorobromomethane	ND		5.0	0.93	ug/L			05/08/15 15:54	1
Ethylbenzene	ND		5.0	0.62	ug/L			05/08/15 15:54	1
Methylene Chloride	ND		5.0	1.1	ug/L			05/08/15 15:54	1
Tetrachloroethene	ND		5.0	0.82	ug/L			05/08/15 15:54	1
Toluene	ND		5.0	0.85	ug/L			05/08/15 15:54	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			05/08/15 15:54	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			05/08/15 15:54	1
Trichloroethene	ND		5.0	0.80	ug/L			05/08/15 15:54	1
Vinyl chloride	ND		5.0	1.3	ug/L			05/08/15 15:54	1
Chloroethane	ND		5.0	0.75	ug/L			05/08/15 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*62 - 123*		*05/08/15 15:54*	*1*
4-Bromofluorobenzene (Surr)	*86*		*75 - 120*		*05/08/15 15:54*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*05/08/15 15:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/08/15 15:54*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: FB-02
Date Collected: 05/01/15 15:15
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			05/09/15 14:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			05/09/15 14:27	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			05/09/15 14:27	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			05/09/15 14:27	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			05/09/15 14:27	1
1,2-Dichlorobenzene	ND		5.0	0.68	ug/L			05/09/15 14:27	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			05/09/15 14:27	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			05/09/15 14:27	1
1,3-Dichlorobenzene	ND		5.0	0.51	ug/L			05/09/15 14:27	1
1,4-Dichlorobenzene	ND		5.0	0.53	ug/L			05/09/15 14:27	1
2-Chloroethyl vinyl ether	ND		10	1.9	ug/L			05/09/15 14:27	1
Acrolein	ND		100	5.7	ug/L			05/09/15 14:27	1
Acrylonitrile	ND		50	9.0	ug/L			05/09/15 14:27	1
Benzene	ND		5.0	0.99	ug/L			05/09/15 14:27	1
Bromoform	ND		5.0	1.1	ug/L			05/09/15 14:27	1
Bromomethane	ND		5.0	1.6	ug/L			05/09/15 14:27	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			05/09/15 14:27	1
Chlorobenzene	ND		5.0	0.53	ug/L			05/09/15 14:27	1
Chloroform	ND		5.0	1.0	ug/L			05/09/15 14:27	1
Chloromethane	ND		5.0	1.4	ug/L			05/09/15 14:27	1
Chlorodibromomethane	ND		5.0	0.65	ug/L			05/09/15 14:27	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			05/09/15 14:27	1
Dichlorobromomethane	ND		5.0	0.93	ug/L			05/09/15 14:27	1
Ethylbenzene	ND		5.0	0.62	ug/L			05/09/15 14:27	1
Methylene Chloride	ND		5.0	1.1	ug/L			05/09/15 14:27	1
Tetrachloroethene	ND		5.0	0.82	ug/L			05/09/15 14:27	1
Toluene	ND		5.0	0.85	ug/L			05/09/15 14:27	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			05/09/15 14:27	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			05/09/15 14:27	1
Trichloroethene	ND		5.0	0.80	ug/L			05/09/15 14:27	1
Vinyl chloride	ND		5.0	1.3	ug/L			05/09/15 14:27	1
Chloroethane	ND		5.0	0.75	ug/L			05/09/15 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*62 - 123*		*05/09/15 14:27*	*1*
4-Bromofluorobenzene (Surr)	*83*		*75 - 120*		*05/09/15 14:27*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*05/09/15 14:27*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*05/09/15 14:27*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: TRIP BLANK
Date Collected: 04/30/15 17:30
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			05/09/15 15:21	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			05/09/15 15:21	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			05/09/15 15:21	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			05/09/15 15:21	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			05/09/15 15:21	1
1,2-Dichlorobenzene	ND		5.0	0.68	ug/L			05/09/15 15:21	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			05/09/15 15:21	1
1,2-Dichloropropane	ND		5.0	1.3	ug/L			05/09/15 15:21	1
1,3-Dichlorobenzene	ND		5.0	0.51	ug/L			05/09/15 15:21	1
1,4-Dichlorobenzene	ND		5.0	0.53	ug/L			05/09/15 15:21	1
2-Chloroethyl vinyl ether	ND		10	1.9	ug/L			05/09/15 15:21	1
Acrolein	ND		100	5.7	ug/L			05/09/15 15:21	1
Acrylonitrile	ND		50	9.0	ug/L			05/09/15 15:21	1
Benzene	ND		5.0	0.99	ug/L			05/09/15 15:21	1
Bromoform	ND		5.0	1.1	ug/L			05/09/15 15:21	1
Bromomethane	ND		5.0	1.6	ug/L			05/09/15 15:21	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			05/09/15 15:21	1
Chlorobenzene	ND		5.0	0.53	ug/L			05/09/15 15:21	1
Chloroform	ND		5.0	1.0	ug/L			05/09/15 15:21	1
Chloromethane	ND		5.0	1.4	ug/L			05/09/15 15:21	1
Chlorodibromomethane	ND		5.0	0.65	ug/L			05/09/15 15:21	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			05/09/15 15:21	1
Dichlorobromomethane	ND		5.0	0.93	ug/L			05/09/15 15:21	1
Ethylbenzene	ND		5.0	0.62	ug/L			05/09/15 15:21	1
Methylene Chloride	ND		5.0	1.1	ug/L			05/09/15 15:21	1
Tetrachloroethene	ND		5.0	0.82	ug/L			05/09/15 15:21	1
Toluene	ND		5.0	0.85	ug/L			05/09/15 15:21	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			05/09/15 15:21	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			05/09/15 15:21	1
Trichloroethene	ND		5.0	0.80	ug/L			05/09/15 15:21	1
Vinyl chloride	ND		5.0	1.3	ug/L			05/09/15 15:21	1
Chloroethane	ND		5.0	0.75	ug/L			05/09/15 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*62 - 123*		*05/09/15 15:21*	*1*
4-Bromofluorobenzene (Surr)	*81*		*75 - 120*		*05/09/15 15:21*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*05/09/15 15:21*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*05/09/15 15:21*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: RB-01
Date Collected: 04/30/15 17:30
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.027	ug/L		05/06/15 12:13	05/12/15 17:10	1
Acenaphthylene	ND		0.19	0.020	ug/L		05/06/15 12:13	05/12/15 17:10	1
Anthracene	ND		0.19	0.018	ug/L		05/06/15 12:13	05/12/15 17:10	1
Benzidine	ND		19	4.4	ug/L		05/06/15 12:13	05/12/15 17:10	1
Benzo[a]anthracene	ND		0.19	0.034	ug/L		05/06/15 12:13	05/12/15 17:10	1
Benzo[b]fluoranthene	ND		0.19	0.045	ug/L		05/06/15 12:13	05/12/15 17:10	1
Benzo[k]fluoranthene	ND		0.19	0.028	ug/L		05/06/15 12:13	05/12/15 17:10	1
Benzoic acid	ND		4.6	1.5	ug/L		05/06/15 12:13	05/12/15 17:10	1
Benzo[g,h,i]perylene	ND		0.19	0.027	ug/L		05/06/15 12:13	05/12/15 17:10	1
Benzo[a]pyrene	ND		0.19	0.026	ug/L		05/06/15 12:13	05/12/15 17:10	1
Bis(2-chloroethoxy)methane	ND		0.93	0.12	ug/L		05/06/15 12:13	05/12/15 17:10	1
Bis(2-chloroethyl)ether	ND		0.93	0.029	ug/L		05/06/15 12:13	05/12/15 17:10	1
Bis(2-ethylhexyl) phthalate	**7.1**		1.9	0.41	ug/L		05/06/15 12:13	05/12/15 17:10	1
2,2'-oxybis[1-chloropropane]	ND		0.93	0.022	ug/L		05/06/15 12:13	05/12/15 17:10	1
4-Bromophenyl phenyl ether	ND		0.93	0.11	ug/L		05/06/15 12:13	05/12/15 17:10	1
4-Chlorophenyl phenyl ether	ND		0.93	0.074	ug/L		05/06/15 12:13	05/12/15 17:10	1
2-Chloronaphthalene	ND		0.19	0.028	ug/L		05/06/15 12:13	05/12/15 17:10	1
Butyl benzyl phthalate	**0.22**	**J**	0.93	0.20	ug/L		05/06/15 12:13	05/12/15 17:10	1
Chrysene	ND		0.19	0.029	ug/L		05/06/15 12:13	05/12/15 17:10	1
Dibenz(a,h)anthracene	ND		0.19	0.025	ug/L		05/06/15 12:13	05/12/15 17:10	1
Di-n-butyl phthalate	ND		0.93	0.22	ug/L		05/06/15 12:13	05/12/15 17:10	1
Di-n-octyl phthalate	ND		0.93	0.19	ug/L		05/06/15 12:13	05/12/15 17:10	1
Diethyl phthalate	ND		0.93	0.27	ug/L		05/06/15 12:13	05/12/15 17:10	1
Dimethyl phthalate	ND		0.93	0.17	ug/L		05/06/15 12:13	05/12/15 17:10	1
3,3'-Dichlorobenzidine	ND		0.93	0.14	ug/L		05/06/15 12:13	05/12/15 17:10	1
2,4-Dinitrotoluene	ND		0.93	0.20	ug/L		05/06/15 12:13	05/12/15 17:10	1
2,6-Dinitrotoluene	ND		0.93	0.13	ug/L		05/06/15 12:13	05/12/15 17:10	1
2-Chlorophenol	ND		0.93	0.21	ug/L		05/06/15 12:13	05/12/15 17:10	1
2,4-Dichlorophenol	ND		0.93	0.062	ug/L		05/06/15 12:13	05/12/15 17:10	1
2,4-Dimethylphenol	ND		0.93	0.16	ug/L		05/06/15 12:13	05/12/15 17:10	1
2,4-Dinitrophenol	ND		4.6	2.3	ug/L		05/06/15 12:13	05/12/15 17:10	1
2-Nitrophenol	ND		0.93	0.10	ug/L		05/06/15 12:13	05/12/15 17:10	1
2,4,6-Trichlorophenol	ND		0.93	0.28	ug/L		05/06/15 12:13	05/12/15 17:10	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.93	0.11	ug/L		05/06/15 12:13	05/12/15 17:10	1
1,2,4-Trichlorobenzene	ND		0.93	0.079	ug/L		05/06/15 12:13	05/12/15 17:10	1
4-Chloro-3-methylphenol	ND		0.93	0.16	ug/L		05/06/15 12:13	05/12/15 17:10	1
4-Nitrophenol	ND		4.6	0.74	ug/L		05/06/15 12:13	05/12/15 17:10	1
4,6-Dinitro-2-methylphenol	ND		4.6	1.4	ug/L		05/06/15 12:13	05/12/15 17:10	1
Fluoranthene	ND		0.19	0.020	ug/L		05/06/15 12:13	05/12/15 17:10	1
Fluorene	ND		0.19	0.022	ug/L		05/06/15 12:13	05/12/15 17:10	1
Hexachlorobenzene	ND		0.93	0.056	ug/L		05/06/15 12:13	05/12/15 17:10	1
Hexachlorobutadiene	ND		0.93	0.087	ug/L		05/06/15 12:13	05/12/15 17:10	1
Hexachlorocyclopentadiene	ND		0.93	0.13	ug/L		05/06/15 12:13	05/12/15 17:10	1
Hexachloroethane	ND		0.93	0.13	ug/L		05/06/15 12:13	05/12/15 17:10	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.040	ug/L		05/06/15 12:13	05/12/15 17:10	1
Isophorone	ND		0.93	0.068	ug/L		05/06/15 12:13	05/12/15 17:10	1
Naphthalene	ND		0.19	0.021	ug/L		05/06/15 12:13	05/12/15 17:10	1
Nitrobenzene	ND		1.9	0.14	ug/L		05/06/15 12:13	05/12/15 17:10	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Client Sample ID: RB-01
Date Collected: 04/30/15 17:30
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		0.93	0.046	ug/L		05/06/15 12:13	05/12/15 17:10	1
N-Nitrosodimethylamine	ND		0.93	0.11	ug/L		05/06/15 12:13	05/12/15 17:10	1
N-Nitrosodiphenylamine	ND		0.93	0.11	ug/L		05/06/15 12:13	05/12/15 17:10	1
Phenanthrene	ND		0.19	0.038	ug/L		05/06/15 12:13	05/12/15 17:10	1
Pyrene	ND		0.19	0.021	ug/L		05/06/15 12:13	05/12/15 17:10	1
Pentachlorophenol	ND		0.93	0.46	ug/L		05/06/15 12:13	05/12/15 17:10	1
Phenol	ND		0.93	0.051	ug/L		05/06/15 12:13	05/12/15 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*30 - 118*	*05/06/15 12:13*	*05/12/15 17:10*	*1*
2-Fluorobiphenyl	*86*		*28 - 109*	*05/06/15 12:13*	*05/12/15 17:10*	*1*
2-Fluorophenol (Surr)	*79*		*20 - 105*	*05/06/15 12:13*	*05/12/15 17:10*	*1*
Nitrobenzene-d5 (Surr)	*86*		*27 - 114*	*05/06/15 12:13*	*05/12/15 17:10*	*1*
Phenol-d5 (Surr)	*93*		*25 - 105*	*05/06/15 12:13*	*05/12/15 17:10*	*1*
Terphenyl-d14 (Surr)	*99*		*20 - 118*	*05/06/15 12:13*	*05/12/15 17:10*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: FB-01
Lab Sample ID: 180-43702-2
Date Collected: 04/30/15 17:45
Matrix: Water
Date Received: 05/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.027	ug/L		05/06/15 12:13	05/12/15 17:37	1
Acenaphthylene	ND		0.19	0.020	ug/L		05/06/15 12:13	05/12/15 17:37	1
Anthracene	ND		0.19	0.018	ug/L		05/06/15 12:13	05/12/15 17:37	1
Benzidine	ND		19	4.4	ug/L		05/06/15 12:13	05/12/15 17:37	1
Benzo[a]anthracene	ND		0.19	0.034	ug/L		05/06/15 12:13	05/12/15 17:37	1
Benzo[b]fluoranthene	ND		0.19	0.045	ug/L		05/06/15 12:13	05/12/15 17:37	1
Benzo[k]fluoranthene	ND		0.19	0.028	ug/L		05/06/15 12:13	05/12/15 17:37	1
Benzoic acid	ND		4.6	1.5	ug/L		05/06/15 12:13	05/12/15 17:37	1
Benzo[g,h,i]perylene	ND		0.19	0.027	ug/L		05/06/15 12:13	05/12/15 17:37	1
Benzo[a]pyrene	ND		0.19	0.026	ug/L		05/06/15 12:13	05/12/15 17:37	1
Bis(2-chloroethoxy)methane	ND		0.93	0.12	ug/L		05/06/15 12:13	05/12/15 17:37	1
Bis(2-chloroethyl)ether	ND		0.93	0.029	ug/L		05/06/15 12:13	05/12/15 17:37	1
Bis(2-ethylhexyl) phthalate	**2.8**		1.9	0.41	ug/L		05/06/15 12:13	05/12/15 17:37	1
2,2'-oxybis[1-chloropropane]	ND		0.93	0.022	ug/L		05/06/15 12:13	05/12/15 17:37	1
4-Bromophenyl phenyl ether	ND		0.93	0.11	ug/L		05/06/15 12:13	05/12/15 17:37	1
4-Chlorophenyl phenyl ether	ND		0.93	0.074	ug/L		05/06/15 12:13	05/12/15 17:37	1
2-Chloronaphthalene	ND		0.19	0.028	ug/L		05/06/15 12:13	05/12/15 17:37	1
Butyl benzyl phthalate	**0.76**	**J**	0.93	0.20	ug/L		05/06/15 12:13	05/12/15 17:37	1
Chrysene	ND		0.19	0.029	ug/L		05/06/15 12:13	05/12/15 17:37	1
Dibenz(a,h)anthracene	ND		0.19	0.025	ug/L		05/06/15 12:13	05/12/15 17:37	1
Di-n-butyl phthalate	ND		0.93	0.22	ug/L		05/06/15 12:13	05/12/15 17:37	1
Di-n-octyl phthalate	ND		0.93	0.19	ug/L		05/06/15 12:13	05/12/15 17:37	1
Diethyl phthalate	ND		0.93	0.27	ug/L		05/06/15 12:13	05/12/15 17:37	1
Dimethyl phthalate	ND		0.93	0.17	ug/L		05/06/15 12:13	05/12/15 17:37	1
3,3'-Dichlorobenzidine	ND		0.93	0.14	ug/L		05/06/15 12:13	05/12/15 17:37	1
2,4-Dinitrotoluene	ND		0.93	0.20	ug/L		05/06/15 12:13	05/12/15 17:37	1
2,6-Dinitrotoluene	ND		0.93	0.13	ug/L		05/06/15 12:13	05/12/15 17:37	1
2-Chlorophenol	ND		0.93	0.21	ug/L		05/06/15 12:13	05/12/15 17:37	1
2,4-Dichlorophenol	ND		0.93	0.062	ug/L		05/06/15 12:13	05/12/15 17:37	1
2,4-Dimethylphenol	ND		0.93	0.16	ug/L		05/06/15 12:13	05/12/15 17:37	1
2,4-Dinitrophenol	ND		4.6	2.3	ug/L		05/06/15 12:13	05/12/15 17:37	1
2-Nitrophenol	ND		0.93	0.10	ug/L		05/06/15 12:13	05/12/15 17:37	1
2,4,6-Trichlorophenol	ND		0.93	0.28	ug/L		05/06/15 12:13	05/12/15 17:37	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.93	0.11	ug/L		05/06/15 12:13	05/12/15 17:37	1
1,2,4-Trichlorobenzene	ND		0.93	0.079	ug/L		05/06/15 12:13	05/12/15 17:37	1
4-Chloro-3-methylphenol	ND		0.93	0.16	ug/L		05/06/15 12:13	05/12/15 17:37	1
4-Nitrophenol	ND		4.6	0.74	ug/L		05/06/15 12:13	05/12/15 17:37	1
4,6-Dinitro-2-methylphenol	ND		4.6	1.4	ug/L		05/06/15 12:13	05/12/15 17:37	1
Fluoranthene	ND		0.19	0.020	ug/L		05/06/15 12:13	05/12/15 17:37	1
Fluorene	ND		0.19	0.022	ug/L		05/06/15 12:13	05/12/15 17:37	1
Hexachlorobenzene	ND		0.93	0.056	ug/L		05/06/15 12:13	05/12/15 17:37	1
Hexachlorobutadiene	ND		0.93	0.087	ug/L		05/06/15 12:13	05/12/15 17:37	1
Hexachlorocyclopentadiene	ND		0.93	0.13	ug/L		05/06/15 12:13	05/12/15 17:37	1
Hexachloroethane	ND		0.93	0.13	ug/L		05/06/15 12:13	05/12/15 17:37	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.040	ug/L		05/06/15 12:13	05/12/15 17:37	1
Isophorone	ND		0.93	0.068	ug/L		05/06/15 12:13	05/12/15 17:37	1
Naphthalene	ND		0.19	0.021	ug/L		05/06/15 12:13	05/12/15 17:37	1
Nitrobenzene	ND		1.9	0.14	ug/L		05/06/15 12:13	05/12/15 17:37	1
N-Nitrosodi-n-propylamine	ND		0.93	0.046	ug/L		05/06/15 12:13	05/12/15 17:37	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Client Sample ID: FB-01
Date Collected: 04/30/15 17:45
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		0.93	0.11	ug/L		05/06/15 12:13	05/12/15 17:37	1
N-Nitrosodiphenylamine	ND		0.93	0.11	ug/L		05/06/15 12:13	05/12/15 17:37	1
Phenanthrene	ND		0.19	0.038	ug/L		05/06/15 12:13	05/12/15 17:37	1
Pyrene	ND		0.19	0.021	ug/L		05/06/15 12:13	05/12/15 17:37	1
Pentachlorophenol	ND		0.93	0.46	ug/L		05/06/15 12:13	05/12/15 17:37	1
Phenol	ND		0.93	0.051	ug/L		05/06/15 12:13	05/12/15 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*30 - 118*	*05/06/15 12:13*	*05/12/15 17:37*	*1*
2-Fluorobiphenyl	*79*		*28 - 109*	*05/06/15 12:13*	*05/12/15 17:37*	*1*
2-Fluorophenol (Surr)	*71*		*20 - 105*	*05/06/15 12:13*	*05/12/15 17:37*	*1*
Nitrobenzene-d5 (Surr)	*79*		*27 - 114*	*05/06/15 12:13*	*05/12/15 17:37*	*1*
Phenol-d5 (Surr)	*83*		*25 - 105*	*05/06/15 12:13*	*05/12/15 17:37*	*1*
Terphenyl-d14 (Surr)	*94*		*20 - 118*	*05/06/15 12:13*	*05/12/15 17:37*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: RB-02
Date Collected: 05/01/15 15:00
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.027	ug/L		05/07/15 09:34	05/15/15 22:22	1
Acenaphthylene	ND		0.19	0.020	ug/L		05/07/15 09:34	05/15/15 22:22	1
Anthracene	ND		0.19	0.018	ug/L		05/07/15 09:34	05/15/15 22:22	1
Benzidine	ND		19	4.4	ug/L		05/07/15 09:34	05/15/15 22:22	1
Benzo[a]anthracene	ND		0.19	0.034	ug/L		05/07/15 09:34	05/15/15 22:22	1
Benzo[b]fluoranthene	ND		0.19	0.045	ug/L		05/07/15 09:34	05/15/15 22:22	1
Benzo[k]fluoranthene	**0.045**	**J**	0.19	0.028	ug/L		05/07/15 09:34	05/15/15 22:22	1
Benzoic acid	ND		4.6	1.5	ug/L		05/07/15 09:34	05/15/15 22:22	1
Benzo[g,h,i]perylene	**0.041**	**J**	0.19	0.027	ug/L		05/07/15 09:34	05/15/15 22:22	1
Benzo[a]pyrene	ND		0.19	0.026	ug/L		05/07/15 09:34	05/15/15 22:22	1
Bis(2-chloroethoxy)methane	ND		0.93	0.12	ug/L		05/07/15 09:34	05/15/15 22:22	1
Bis(2-chloroethyl)ether	ND		0.93	0.029	ug/L		05/07/15 09:34	05/15/15 22:22	1
Bis(2-ethylhexyl) phthalate	**9.1**		1.9	0.41	ug/L		05/07/15 09:34	05/15/15 22:22	1
2,2'-oxybis[1-chloropropane]	ND		0.93	0.022	ug/L		05/07/15 09:34	05/15/15 22:22	1
4-Bromophenyl phenyl ether	ND		0.93	0.11	ug/L		05/07/15 09:34	05/15/15 22:22	1
4-Chlorophenyl phenyl ether	ND		0.93	0.074	ug/L		05/07/15 09:34	05/15/15 22:22	1
2-Chloronaphthalene	ND		0.19	0.028	ug/L		05/07/15 09:34	05/15/15 22:22	1
Butyl benzyl phthalate	**0.33**	**J**	0.93	0.20	ug/L		05/07/15 09:34	05/15/15 22:22	1
Chrysene	ND		0.19	0.029	ug/L		05/07/15 09:34	05/15/15 22:22	1
Dibenz(a,h)anthracene	**0.045**	**J**	0.19	0.025	ug/L		05/07/15 09:34	05/15/15 22:22	1
Di-n-butyl phthalate	ND		0.93	0.22	ug/L		05/07/15 09:34	05/15/15 22:22	1
Di-n-octyl phthalate	ND		0.93	0.19	ug/L		05/07/15 09:34	05/15/15 22:22	1
Diethyl phthalate	ND		0.93	0.27	ug/L		05/07/15 09:34	05/15/15 22:22	1
Dimethyl phthalate	ND		0.93	0.17	ug/L		05/07/15 09:34	05/15/15 22:22	1
3,3'-Dichlorobenzidine	ND		0.93	0.14	ug/L		05/07/15 09:34	05/15/15 22:22	1
2,4-Dinitrotoluene	ND		0.93	0.20	ug/L		05/07/15 09:34	05/15/15 22:22	1
2,6-Dinitrotoluene	ND		0.93	0.13	ug/L		05/07/15 09:34	05/15/15 22:22	1
2-Chlorophenol	ND		0.93	0.21	ug/L		05/07/15 09:34	05/15/15 22:22	1
2,4-Dichlorophenol	ND		0.93	0.062	ug/L		05/07/15 09:34	05/15/15 22:22	1
2,4-Dimethylphenol	ND		0.93	0.16	ug/L		05/07/15 09:34	05/15/15 22:22	1
2,4-Dinitrophenol	ND		4.6	2.3	ug/L		05/07/15 09:34	05/15/15 22:22	1
2-Nitrophenol	ND		0.93	0.10	ug/L		05/07/15 09:34	05/15/15 22:22	1
2,4,6-Trichlorophenol	ND		0.93	0.28	ug/L		05/07/15 09:34	05/15/15 22:22	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.93	0.11	ug/L		05/07/15 09:34	05/15/15 22:22	1
1,2,4-Trichlorobenzene	ND		0.93	0.079	ug/L		05/07/15 09:34	05/15/15 22:22	1
4-Chloro-3-methylphenol	ND		0.93	0.16	ug/L		05/07/15 09:34	05/15/15 22:22	1
4-Nitrophenol	ND		4.6	0.74	ug/L		05/07/15 09:34	05/15/15 22:22	1
4,6-Dinitro-2-methylphenol	ND		4.6	1.4	ug/L		05/07/15 09:34	05/15/15 22:22	1
Fluoranthene	ND		0.19	0.020	ug/L		05/07/15 09:34	05/15/15 22:22	1
Fluorene	ND		0.19	0.022	ug/L		05/07/15 09:34	05/15/15 22:22	1
Hexachlorobenzene	ND		0.93	0.056	ug/L		05/07/15 09:34	05/15/15 22:22	1
Hexachlorobutadiene	ND		0.93	0.087	ug/L		05/07/15 09:34	05/15/15 22:22	1
Hexachlorocyclopentadiene	ND		0.93	0.13	ug/L		05/07/15 09:34	05/15/15 22:22	1
Hexachloroethane	ND		0.93	0.13	ug/L		05/07/15 09:34	05/15/15 22:22	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.040	ug/L		05/07/15 09:34	05/15/15 22:22	1
Isophorone	ND		0.93	0.068	ug/L		05/07/15 09:34	05/15/15 22:22	1
Naphthalene	**0.059**	**J**	0.19	0.021	ug/L		05/07/15 09:34	05/15/15 22:22	1
Nitrobenzene	ND		1.9	0.14	ug/L		05/07/15 09:34	05/15/15 22:22	1
N-Nitrosodi-n-propylamine	ND		0.93	0.046	ug/L		05/07/15 09:34	05/15/15 22:22	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Client Sample ID: RB-02
Date Collected: 05/01/15 15:00
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		0.93	0.11	ug/L		05/07/15 09:34	05/15/15 22:22	1
N-Nitrosodiphenylamine	ND		0.93	0.11	ug/L		05/07/15 09:34	05/15/15 22:22	1
Phenanthrene	ND		0.19	0.038	ug/L		05/07/15 09:34	05/15/15 22:22	1
Pyrene	ND		0.19	0.021	ug/L		05/07/15 09:34	05/15/15 22:22	1
Pentachlorophenol	ND		0.93	0.46	ug/L		05/07/15 09:34	05/15/15 22:22	1
Phenol	ND		0.93	0.051	ug/L		05/07/15 09:34	05/15/15 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*30 - 118*	*05/07/15 09:34*	*05/15/15 22:22*	*1*
2-Fluorobiphenyl	*69*		*28 - 109*	*05/07/15 09:34*	*05/15/15 22:22*	*1*
2-Fluorophenol (Surr)	*73*		*20 - 105*	*05/07/15 09:34*	*05/15/15 22:22*	*1*
Nitrobenzene-d5 (Surr)	*82*		*27 - 114*	*05/07/15 09:34*	*05/15/15 22:22*	*1*
Phenol-d5 (Surr)	*88*		*25 - 105*	*05/07/15 09:34*	*05/15/15 22:22*	*1*
Terphenyl-d14 (Surr)	*91*		*20 - 118*	*05/07/15 09:34*	*05/15/15 22:22*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: FB-02
Lab Sample ID: 180-43702-4
Date Collected: 05/01/15 15:15
Matrix: Water
Date Received: 05/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.028	ug/L		05/07/15 09:34	05/15/15 22:49	1
Acenaphthylene	ND		0.19	0.021	ug/L		05/07/15 09:34	05/15/15 22:49	1
Anthracene	ND		0.19	0.018	ug/L		05/07/15 09:34	05/15/15 22:49	1
Benzidine	ND		19	4.6	ug/L		05/07/15 09:34	05/15/15 22:49	1
Benzo[a]anthracene	ND		0.19	0.035	ug/L		05/07/15 09:34	05/15/15 22:49	1
Benzo[b]fluoranthene	ND		0.19	0.047	ug/L		05/07/15 09:34	05/15/15 22:49	1
Benzo[k]fluoranthene	ND		0.19	0.029	ug/L		05/07/15 09:34	05/15/15 22:49	1
Benzoic acid	ND		4.8	1.6	ug/L		05/07/15 09:34	05/15/15 22:49	1
Benzo[g,h,i]perylene	ND		0.19	0.028	ug/L		05/07/15 09:34	05/15/15 22:49	1
Benzo[a]pyrene	ND		0.19	0.027	ug/L		05/07/15 09:34	05/15/15 22:49	1
Bis(2-chloroethoxy)methane	ND		0.96	0.13	ug/L		05/07/15 09:34	05/15/15 22:49	1
Bis(2-chloroethyl)ether	ND		0.96	0.030	ug/L		05/07/15 09:34	05/15/15 22:49	1
Bis(2-ethylhexyl) phthalate	**1.5**	**J**	1.9	0.42	ug/L		05/07/15 09:34	05/15/15 22:49	1
2,2'-oxybis[1-chloropropane]	ND		0.96	0.023	ug/L		05/07/15 09:34	05/15/15 22:49	1
4-Bromophenyl phenyl ether	ND		0.96	0.11	ug/L		05/07/15 09:34	05/15/15 22:49	1
4-Chlorophenyl phenyl ether	ND		0.96	0.077	ug/L		05/07/15 09:34	05/15/15 22:49	1
2-Chloronaphthalene	ND		0.19	0.030	ug/L		05/07/15 09:34	05/15/15 22:49	1
Butyl benzyl phthalate	**0.35**	**J**	0.96	0.21	ug/L		05/07/15 09:34	05/15/15 22:49	1
Chrysene	ND		0.19	0.030	ug/L		05/07/15 09:34	05/15/15 22:49	1
Dibenz(a,h)anthracene	ND		0.19	0.026	ug/L		05/07/15 09:34	05/15/15 22:49	1
Di-n-butyl phthalate	ND		0.96	0.23	ug/L		05/07/15 09:34	05/15/15 22:49	1
Di-n-octyl phthalate	ND		0.96	0.20	ug/L		05/07/15 09:34	05/15/15 22:49	1
Diethyl phthalate	ND		0.96	0.29	ug/L		05/07/15 09:34	05/15/15 22:49	1
Dimethyl phthalate	ND		0.96	0.18	ug/L		05/07/15 09:34	05/15/15 22:49	1
3,3'-Dichlorobenzidine	ND		0.96	0.14	ug/L		05/07/15 09:34	05/15/15 22:49	1
2,4-Dinitrotoluene	ND		0.96	0.21	ug/L		05/07/15 09:34	05/15/15 22:49	1
2,6-Dinitrotoluene	ND		0.96	0.13	ug/L		05/07/15 09:34	05/15/15 22:49	1
2-Chlorophenol	ND		0.96	0.22	ug/L		05/07/15 09:34	05/15/15 22:49	1
2,4-Dichlorophenol	ND		0.96	0.065	ug/L		05/07/15 09:34	05/15/15 22:49	1
2,4-Dimethylphenol	ND		0.96	0.16	ug/L		05/07/15 09:34	05/15/15 22:49	1
2,4-Dinitrophenol	ND		4.8	2.4	ug/L		05/07/15 09:34	05/15/15 22:49	1
2-Nitrophenol	ND		0.96	0.11	ug/L		05/07/15 09:34	05/15/15 22:49	1
2,4,6-Trichlorophenol	ND		0.96	0.29	ug/L		05/07/15 09:34	05/15/15 22:49	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.96	0.11	ug/L		05/07/15 09:34	05/15/15 22:49	1
1,2,4-Trichlorobenzene	ND		0.96	0.082	ug/L		05/07/15 09:34	05/15/15 22:49	1
4-Chloro-3-methylphenol	ND		0.96	0.16	ug/L		05/07/15 09:34	05/15/15 22:49	1
4-Nitrophenol	ND		4.8	0.77	ug/L		05/07/15 09:34	05/15/15 22:49	1
4,6-Dinitro-2-methylphenol	ND		4.8	1.5	ug/L		05/07/15 09:34	05/15/15 22:49	1
Fluoranthene	ND		0.19	0.020	ug/L		05/07/15 09:34	05/15/15 22:49	1
Fluorene	ND		0.19	0.023	ug/L		05/07/15 09:34	05/15/15 22:49	1
Hexachlorobenzene	ND		0.96	0.059	ug/L		05/07/15 09:34	05/15/15 22:49	1
Hexachlorobutadiene	ND		0.96	0.090	ug/L		05/07/15 09:34	05/15/15 22:49	1
Hexachlorocyclopentadiene	ND		0.96	0.13	ug/L		05/07/15 09:34	05/15/15 22:49	1
Hexachloroethane	ND		0.96	0.13	ug/L		05/07/15 09:34	05/15/15 22:49	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.042	ug/L		05/07/15 09:34	05/15/15 22:49	1
Isophorone	ND		0.96	0.071	ug/L		05/07/15 09:34	05/15/15 22:49	1
Naphthalene	ND		0.19	0.022	ug/L		05/07/15 09:34	05/15/15 22:49	1
Nitrobenzene	ND		1.9	0.14	ug/L		05/07/15 09:34	05/15/15 22:49	1
N-Nitrosodi-n-propylamine	ND		0.96	0.048	ug/L		05/07/15 09:34	05/15/15 22:49	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Client Sample ID: FB-02
Date Collected: 05/01/15 15:15
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		0.96	0.11	ug/L		05/07/15 09:34	05/15/15 22:49	1
N-Nitrosodiphenylamine	ND		0.96	0.12	ug/L		05/07/15 09:34	05/15/15 22:49	1
Phenanthrene	ND		0.19	0.040	ug/L		05/07/15 09:34	05/15/15 22:49	1
Pyrene	ND		0.19	0.022	ug/L		05/07/15 09:34	05/15/15 22:49	1
Pentachlorophenol	ND		0.96	0.48	ug/L		05/07/15 09:34	05/15/15 22:49	1
Phenol	**0.14**	**J**	0.96	0.053	ug/L		05/07/15 09:34	05/15/15 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*30 - 118*	*05/07/15 09:34*	*05/15/15 22:49*	*1*
2-Fluorobiphenyl	*65*		*28 - 109*	*05/07/15 09:34*	*05/15/15 22:49*	*1*
2-Fluorophenol (Surr)	*66*		*20 - 105*	*05/07/15 09:34*	*05/15/15 22:49*	*1*
Nitrobenzene-d5 (Surr)	*78*		*27 - 114*	*05/07/15 09:34*	*05/15/15 22:49*	*1*
Phenol-d5 (Surr)	*80*		*25 - 105*	*05/07/15 09:34*	*05/15/15 22:49*	*1*
Terphenyl-d14 (Surr)	*79*		*20 - 118*	*05/07/15 09:34*	*05/15/15 22:49*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: RB-01
Date Collected: 04/30/15 17:30
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0094	0.0024	ug/L		05/05/15 11:45	05/06/15 08:59	1
PCB-1221	ND		0.0094	0.0039	ug/L		05/05/15 11:45	05/06/15 08:59	1
PCB-1232	ND		0.0094	0.0037	ug/L		05/05/15 11:45	05/06/15 08:59	1
PCB-1242	ND		0.0094	0.0018	ug/L		05/05/15 11:45	05/06/15 08:59	1
PCB-1248	ND		0.0094	0.0025	ug/L		05/05/15 11:45	05/06/15 08:59	1
PCB-1254	ND		0.0094	0.0028	ug/L		05/05/15 11:45	05/06/15 08:59	1
PCB-1260	ND		0.0094	0.0016	ug/L		05/05/15 11:45	05/06/15 08:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*128*		*43 - 138*	*05/05/15 11:45*	*05/06/15 08:59*	*1*
DCB Decachlorobiphenyl (Surr)	*131*		*43 - 138*	*05/05/15 11:45*	*05/06/15 08:59*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*34 - 137*	*05/05/15 11:45*	*05/06/15 08:59*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*34 - 137*	*05/05/15 11:45*	*05/06/15 08:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: FB-01
Lab Sample ID: 180-43702-2
Date Collected: 04/30/15 17:45
Matrix: Water
Date Received: 05/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0095	0.0024	ug/L		05/05/15 11:45	05/06/15 09:18	1
PCB-1221	ND		0.0095	0.0039	ug/L		05/05/15 11:45	05/06/15 09:18	1
PCB-1232	ND		0.0095	0.0037	ug/L		05/05/15 11:45	05/06/15 09:18	1
PCB-1242	ND		0.0095	0.0018	ug/L		05/05/15 11:45	05/06/15 09:18	1
PCB-1248	ND		0.0095	0.0026	ug/L		05/05/15 11:45	05/06/15 09:18	1
PCB-1254	ND		0.0095	0.0029	ug/L		05/05/15 11:45	05/06/15 09:18	1
PCB-1260	ND		0.0095	0.0016	ug/L		05/05/15 11:45	05/06/15 09:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*128*		*43 - 138*	*05/05/15 11:45*	*05/06/15 09:18*	*1*
DCB Decachlorobiphenyl (Surr)	*143*	*X*	*43 - 138*	*05/05/15 11:45*	*05/06/15 09:18*	*1*
Tetrachloro-m-xylene (Surr)	*104*		*34 - 137*	*05/05/15 11:45*	*05/06/15 09:18*	*1*
Tetrachloro-m-xylene (Surr)	*110*		*34 - 137*	*05/05/15 11:45*	*05/06/15 09:18*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: RB-02
Lab Sample ID: 180-43702-3
Date Collected: 05/01/15 15:00
Matrix: Water
Date Received: 05/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0094	0.0024	ug/L		05/05/15 11:45	05/06/15 09:56	1
PCB-1221	ND		0.0094	0.0039	ug/L		05/05/15 11:45	05/06/15 09:56	1
PCB-1232	ND		0.0094	0.0037	ug/L		05/05/15 11:45	05/06/15 09:56	1
PCB-1242	ND		0.0094	0.0018	ug/L		05/05/15 11:45	05/06/15 09:56	1
PCB-1248	ND		0.0094	0.0025	ug/L		05/05/15 11:45	05/06/15 09:56	1
PCB-1254	ND		0.0094	0.0028	ug/L		05/05/15 11:45	05/06/15 09:56	1
PCB-1260	ND		0.0094	0.0016	ug/L		05/05/15 11:45	05/06/15 09:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*130*		*43 - 138*	*05/05/15 11:45*	*05/06/15 09:56*	*1*
DCB Decachlorobiphenyl (Surr)	*122*		*43 - 138*	*05/05/15 11:45*	*05/06/15 09:56*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*34 - 137*	*05/05/15 11:45*	*05/06/15 09:56*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*34 - 137*	*05/05/15 11:45*	*05/06/15 09:56*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: FB-02
Lab Sample ID: 180-43702-4
Date Collected: 05/01/15 15:15
Matrix: Water
Date Received: 05/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0095	0.0024	ug/L		05/06/15 12:40	05/07/15 06:00	1
PCB-1221	ND		0.0095	0.0039	ug/L		05/06/15 12:40	05/07/15 06:00	1
PCB-1232	ND		0.0095	0.0037	ug/L		05/06/15 12:40	05/07/15 06:00	1
PCB-1242	ND		0.0095	0.0018	ug/L		05/06/15 12:40	05/07/15 06:00	1
PCB-1248	ND		0.0095	0.0026	ug/L		05/06/15 12:40	05/07/15 06:00	1
PCB-1254	ND		0.0095	0.0029	ug/L		05/06/15 12:40	05/07/15 06:00	1
PCB-1260	ND		0.0095	0.0016	ug/L		05/06/15 12:40	05/07/15 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*43 - 138*	*05/06/15 12:40*	*05/07/15 06:00*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*43 - 138*	*05/06/15 12:40*	*05/07/15 06:00*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*34 - 137*	*05/06/15 12:40*	*05/07/15 06:00*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*34 - 137*	*05/06/15 12:40*	*05/07/15 06:00*	*1*

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

Client Sample ID: RB-01
Date Collected: 04/30/15 17:30
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.29	ug/L		05/04/15 11:22	05/07/15 19:02	1
Cadmium	ND		1.0	0.11	ug/L		05/04/15 11:22	05/07/15 19:02	1
Chromium	**0.57**	**J**	2.0	0.54	ug/L		05/04/15 11:22	05/07/15 19:02	1
Lead	**0.18**	**J**	1.0	0.019	ug/L		05/04/15 11:22	05/07/15 19:02	1
Selenium	ND		5.0	0.42	ug/L		05/04/15 11:22	05/07/15 19:02	1
Silver	ND		1.0	0.036	ug/L		05/04/15 11:22	05/07/15 19:02	1
Beryllium	ND		1.0	0.037	ug/L		05/04/15 11:22	05/07/15 19:02	1
Thallium	ND		1.0	0.015	ug/L		05/04/15 11:22	05/07/15 19:02	1
Antimony	ND		2.0	0.019	ug/L		05/04/15 11:22	05/07/15 19:02	1
Nickel	ND		1.0	0.17	ug/L		05/04/15 11:22	05/07/15 19:02	1
Zinc	**5.0**		5.0	0.96	ug/L		05/04/15 11:22	05/07/15 19:02	1
Copper	**0.72**	**J**	2.0	0.24	ug/L		05/04/15 11:22	05/07/15 19:02	1

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

Client Sample ID: FB-01
Lab Sample ID: 180-43702-2
Date Collected: 04/30/15 17:45
Matrix: Water
Date Received: 05/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.29	ug/L		05/04/15 11:22	05/07/15 19:06	1
Cadmium	ND		1.0	0.11	ug/L		05/04/15 11:22	05/07/15 19:06	1
Chromium	**0.60**	**J**	2.0	0.54	ug/L		05/04/15 11:22	05/07/15 19:06	1
Lead	**0.15**	**J**	1.0	0.019	ug/L		05/04/15 11:22	05/08/15 22:57	1
Selenium	ND		5.0	0.42	ug/L		05/04/15 11:22	05/07/15 19:06	1
Silver	ND		1.0	0.036	ug/L		05/04/15 11:22	05/07/15 19:06	1
Beryllium	ND		1.0	0.037	ug/L		05/04/15 11:22	05/08/15 22:57	1
Thallium	ND		1.0	0.015	ug/L		05/04/15 11:22	05/08/15 22:57	1
Antimony	ND		2.0	0.019	ug/L		05/04/15 11:22	05/07/15 19:06	1
Nickel	ND		1.0	0.17	ug/L		05/04/15 11:22	05/07/15 19:06	1
Zinc	**6.0**		5.0	0.96	ug/L		05/04/15 11:22	05/07/15 19:06	1
Copper	**0.57**	**J**	2.0	0.24	ug/L		05/04/15 11:22	05/07/15 19:06	1

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

Client Sample ID: RB-02
Lab Sample ID: 180-43702-3
Date Collected: 05/01/15 15:00
Matrix: Water
Date Received: 05/02/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.31**	**J**	1.0	0.29	ug/L		05/04/15 11:22	05/07/15 19:09	1
Cadmium	ND		1.0	0.11	ug/L		05/04/15 11:22	05/07/15 19:09	1
Chromium	ND		2.0	0.54	ug/L		05/04/15 11:22	05/07/15 19:09	1
Lead	**0.19**	**J**	1.0	0.019	ug/L		05/04/15 11:22	05/07/15 19:09	1
Selenium	ND		5.0	0.42	ug/L		05/04/15 11:22	05/07/15 19:09	1
Silver	ND		1.0	0.036	ug/L		05/04/15 11:22	05/07/15 19:09	1
Beryllium	ND		1.0	0.037	ug/L		05/04/15 11:22	05/07/15 19:09	1
Thallium	ND		1.0	0.015	ug/L		05/04/15 11:22	05/07/15 19:09	1
Antimony	ND		2.0	0.019	ug/L		05/04/15 11:22	05/07/15 19:09	1
Nickel	ND		1.0	0.17	ug/L		05/04/15 11:22	05/07/15 19:09	1
Zinc	**4.1**	**J**	5.0	0.96	ug/L		05/04/15 11:22	05/07/15 19:09	1
Copper	**0.58**	**J**	2.0	0.24	ug/L		05/04/15 11:22	05/07/15 19:09	1

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

Client Sample ID: FB-02
Date Collected: 05/01/15 15:15
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.29	ug/L		05/04/15 11:22	05/07/15 19:13	1
Cadmium	ND		1.0	0.11	ug/L		05/04/15 11:22	05/07/15 19:13	1
Chromium	**1.3**	**J**	2.0	0.54	ug/L		05/04/15 11:22	05/07/15 19:13	1
Lead	**0.020**	**J**	1.0	0.019	ug/L		05/04/15 11:22	05/07/15 19:13	1
Selenium	ND		5.0	0.42	ug/L		05/04/15 11:22	05/07/15 19:13	1
Silver	ND		1.0	0.036	ug/L		05/04/15 11:22	05/07/15 19:13	1
Beryllium	ND		1.0	0.037	ug/L		05/04/15 11:22	05/07/15 19:13	1
Thallium	ND		1.0	0.015	ug/L		05/04/15 11:22	05/07/15 19:13	1
Antimony	ND		2.0	0.019	ug/L		05/04/15 11:22	05/07/15 19:13	1
Nickel	ND		1.0	0.17	ug/L		05/04/15 11:22	05/07/15 19:13	1
Zinc	**9.0**		5.0	0.96	ug/L		05/04/15 11:22	05/07/15 19:13	1
Copper	**0.40**	**J**	2.0	0.24	ug/L		05/04/15 11:22	05/07/15 19:13	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: RB-01
Date Collected: 04/30/15 17:30
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.078	ug/L		05/11/15 08:34	05/11/15 18:32	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: FB-01
Date Collected: 04/30/15 17:45
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.078	ug/L		05/11/15 08:34	05/11/15 18:33	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: RB-02
Date Collected: 05/01/15 15:00
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.078	ug/L		05/11/15 08:34	05/12/15 07:40	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: FB-02
Date Collected: 05/01/15 15:15
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.078	ug/L		05/11/15 08:34	05/12/15 07:42	1

General Chemistry

Client Sample ID: RB-01
Date Collected: 04/30/15 17:30
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	**1.2**	**J**	6.1	1.2	mg/L		05/21/15 08:59	05/21/15 08:59	1
Cyanide, Total	ND		10	2.5	ug/L		05/12/15 13:00	05/12/15 14:39	1

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

General Chemistry

Client Sample ID: FB-01
Date Collected: 04/30/15 17:45
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.9	1.2	mg/L		05/21/15 08:59	05/21/15 08:59	1
Cyanide, Total	ND		10	2.5	ug/L		05/12/15 13:00	05/12/15 14:41	1

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

General Chemistry

Client Sample ID: RB-02
Date Collected: 05/01/15 15:00
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.8	1.2	mg/L		05/21/15 08:59	05/21/15 08:59	1
Cyanide, Total	ND		10	2.5	ug/L		05/15/15 08:15	05/15/15 11:32	1

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

General Chemistry

Client Sample ID: FB-02
Date Collected: 05/01/15 15:15
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.7	1.2	mg/L		05/21/15 08:59	05/21/15 08:59	1
Cyanide, Total	ND		10	2.5	ug/L		05/15/15 08:15	05/15/15 11:34	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	5.0	1.0	ug/L	8260C
1,1,2,2-Tetrachloroethane	5.0	0.93	ug/L	8260C
1,1,2-Trichloroethane	5.0	1.2	ug/L	8260C
1,1-Dichloroethane	5.0	1.0	ug/L	8260C
1,1-Dichloroethene	5.0	1.1	ug/L	8260C
1,2-Dichlorobenzene	5.0	0.68	ug/L	8260C
1,2-Dichloroethane	5.0	0.96	ug/L	8260C
1,2-Dichloropropane	5.0	1.3	ug/L	8260C
1,3-Dichlorobenzene	5.0	0.51	ug/L	8260C
1,4-Dichlorobenzene	5.0	0.53	ug/L	8260C
2-Chloroethyl vinyl ether	10	1.9	ug/L	8260C
Acrolein	100	5.7	ug/L	8260C
Acrylonitrile	50	9.0	ug/L	8260C
Benzene	5.0	0.99	ug/L	8260C
Bromoform	5.0	1.1	ug/L	8260C
Bromomethane	5.0	1.6	ug/L	8260C
Carbon tetrachloride	5.0	1.1	ug/L	8260C
Chlorobenzene	5.0	0.53	ug/L	8260C
Chlorodibromomethane	5.0	0.65	ug/L	8260C
Chloroethane	5.0	0.75	ug/L	8260C
Chloroform	5.0	1.0	ug/L	8260C
Chloromethane	5.0	1.4	ug/L	8260C
cis-1,3-Dichloropropene	5.0	0.73	ug/L	8260C
Dichlorobromomethane	5.0	0.93	ug/L	8260C
Ethylbenzene	5.0	0.62	ug/L	8260C
Methylene Chloride	5.0	1.1	ug/L	8260C
Tetrachloroethene	5.0	0.82	ug/L	8260C
Toluene	5.0	0.85	ug/L	8260C
trans-1,2-Dichloroethene	5.0	0.75	ug/L	8260C
trans-1,3-Dichloropropene	5.0	0.58	ug/L	8260C
Trichloroethene	5.0	0.80	ug/L	8260C
Vinyl chloride	5.0	1.3	ug/L	8260C

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	RL	MDL	Units	Method
1,2,4-Trichlorobenzene	1.0	0.085	ug/L	8270D LL
1,2-Diphenylhydrazine(as Azobenzene)	1.0	0.12	ug/L	8270D LL
2,2'-oxybis[1-chloropropane]	1.0	0.024	ug/L	8270D LL
2,4,6-Trichlorophenol	1.0	0.30	ug/L	8270D LL
2,4-Dichlorophenol	1.0	0.067	ug/L	8270D LL
2,4-Dimethylphenol	1.0	0.17	ug/L	8270D LL
2,4-Dinitrophenol	5.0	2.5	ug/L	8270D LL
2,4-Dinitrotoluene	1.0	0.21	ug/L	8270D LL
2,6-Dinitrotoluene	1.0	0.14	ug/L	8270D LL
2-Chloronaphthalene	0.20	0.031	ug/L	8270D LL
2-Chlorophenol	1.0	0.23	ug/L	8270D LL
2-Nitrophenol	1.0	0.11	ug/L	8270D LL
3,3'-Dichlorobenzidine	1.0	0.15	ug/L	8270D LL
4,6-Dinitro-2-methylphenol	5.0	1.6	ug/L	8270D LL
4-Bromophenyl phenyl ether	1.0	0.12	ug/L	8270D LL
4-Chloro-3-methylphenol	1.0	0.17	ug/L	8270D LL

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	RL	MDL	Units	Method
4-Chlorophenyl phenyl ether	1.0	0.080	ug/L	8270D LL
4-Nitrophenol	5.0	0.80	ug/L	8270D LL
Acenaphthene	0.20	0.029	ug/L	8270D LL
Acenaphthylene	0.20	0.022	ug/L	8270D LL
Anthracene	0.20	0.019	ug/L	8270D LL
Benzidine	20	4.7	ug/L	8270D LL
Benzo[a]anthracene	0.20	0.037	ug/L	8270D LL
Benzo[a]pyrene	0.20	0.028	ug/L	8270D LL
Benzo[b]fluoranthene	0.20	0.049	ug/L	8270D LL
Benzo[g,h,i]perylene	0.20	0.029	ug/L	8270D LL
Benzo[k]fluoranthene	0.20	0.030	ug/L	8270D LL
Benzoic acid	5.0	1.6	ug/L	8270D LL
Bis(2-chloroethoxy)methane	1.0	0.13	ug/L	8270D LL
Bis(2-chloroethyl)ether	1.0	0.032	ug/L	8270D LL
Bis(2-ethylhexyl) phthalate	2.0	0.44	ug/L	8270D LL
Butyl benzyl phthalate	1.0	0.21	ug/L	8270D LL
Chrysene	0.20	0.031	ug/L	8270D LL
Dibenz(a,h)anthracene	0.20	0.027	ug/L	8270D LL
Diethyl phthalate	1.0	0.30	ug/L	8270D LL
Dimethyl phthalate	1.0	0.18	ug/L	8270D LL
Di-n-butyl phthalate	1.0	0.24	ug/L	8270D LL
Di-n-octyl phthalate	1.0	0.20	ug/L	8270D LL
Fluoranthene	0.20	0.021	ug/L	8270D LL
Fluorene	0.20	0.024	ug/L	8270D LL
Hexachlorobenzene	1.0	0.061	ug/L	8270D LL
Hexachlorobutadiene	1.0	0.094	ug/L	8270D LL
Hexachlorocyclopentadiene	1.0	0.14	ug/L	8270D LL
Hexachloroethane	1.0	0.14	ug/L	8270D LL
Indeno[1,2,3-cd]pyrene	0.20	0.043	ug/L	8270D LL
Isophorone	1.0	0.074	ug/L	8270D LL
Naphthalene	0.20	0.023	ug/L	8270D LL
Nitrobenzene	2.0	0.15	ug/L	8270D LL
N-Nitrosodimethylamine	1.0	0.12	ug/L	8270D LL
N-Nitrosodi-n-propylamine	1.0	0.050	ug/L	8270D LL
N-Nitrosodiphenylamine	1.0	0.12	ug/L	8270D LL
Pentachlorophenol	1.0	0.50	ug/L	8270D LL
Phenanthrene	0.20	0.042	ug/L	8270D LL
Phenol	1.0	0.055	ug/L	8270D LL
Pyrene	0.20	0.023	ug/L	8270D LL

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	RL	MDL	Units	Method
PCB-1016	0.010	0.0025	ug/L	8082A
PCB-1221	0.010	0.0041	ug/L	8082A
PCB-1232	0.010	0.0039	ug/L	8082A
PCB-1242	0.010	0.0019	ug/L	8082A
PCB-1248	0.010	0.0027	ug/L	8082A
PCB-1254	0.010	0.0030	ug/L	8082A
PCB-1260	0.010	0.0017	ug/L	8082A

Default Detection Limits

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

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

Analyte	RL	MDL	Units	Method
Antimony	2.0	0.019	ug/L	6020A
Arsenic	1.0	0.29	ug/L	6020A
Beryllium	1.0	0.037	ug/L	6020A
Cadmium	1.0	0.11	ug/L	6020A
Chromium	2.0	0.54	ug/L	6020A
Copper	2.0	0.24	ug/L	6020A
Lead	1.0	0.019	ug/L	6020A
Nickel	1.0	0.17	ug/L	6020A
Selenium	5.0	0.42	ug/L	6020A
Silver	1.0	0.036	ug/L	6020A
Thallium	1.0	0.015	ug/L	6020A
Zinc	5.0	0.96	ug/L	6020A

Method: 7470A - Mercury (CVAA)

Analyte	RL	MDL	Units	Method
Mercury	0.20	0.078	ug/L	7470A

General Chemistry

Analyte	RL	MDL	Units	Method
HEM (Oil & Grease)	5.0	1.0	mg/L	1664A
Cyanide, Total	10	2.5	ug/L	9014

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(62-123)	(75-120)	(80-120)	(80-120)
180-43702-1	RB-01	89	78	103	94
180-43702-2	FB-01	84	82	108	94
180-43702-3	RB-02	90	86	114	99
180-43702-4	FB-02	80	83	92	108
180-43702-5	TRIP BLANK	80	81	92	111
LCS 180-140962/17	Lab Control Sample	78	82	98	90
LCS 180-141065/9	Lab Control Sample	94	97	102	100
MB 180-141065/5	Method Blank	87	93	103	120

Surrogate Legend

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

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(30-118)	(28-109)	(20-105)	(27-114)	(25-105)	(20-118)
180-43702-1	RB-01	88	86	79	86	93	99
180-43702-2	FB-01	84	79	71	79	83	94
180-43702-3	RB-02	79	69	73	82	88	91
180-43702-4	FB-02	69	65	66	78	80	79
LCS 180-140746/2-A	Lab Control Sample	58	53	52	55	57	60
LCS 180-140846/2-A	Lab Control Sample	56	52	56	55	58	54
LCSD 180-140746/3-A	Lab Control Sample Dup	57	53	53	55	57	59
LCSD 180-140846/3-A	Lab Control Sample Dup	56	53	57	56	60	55
MB 180-140746/1-A	Method Blank	54	51	57	57	61	65
MB 180-140846/1-A	Method Blank	53	52	60	56	64	56

Surrogate Legend

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

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(43-138)	(43-138)	(34-137)	(34-137)
180-43702-1	RB-01	128	131	77	85
180-43702-2	FB-01	128	143 X	104	110
180-43702-3	RB-02	130	122	97	100
180-43702-4	FB-02	100	103	90	88

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(43-138)	(43-138)	(34-137)	(34-137)
LCS 180-140615/4-A	Lab Control Sample	134	134	109	113
LCS 180-140781/2-A	Lab Control Sample	90	93	102	97
LCSD 180-140615/5-A	Lab Control Sample Dup	110	140 X	104	109
LCSD 180-140781/3-A	Lab Control Sample Dup	87	88	98	92
MB 180-140615/1-A	Method Blank	109	125	97	108
MB 180-140781/1-A	Method Blank	86	89	98	93

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCS 180-140962/17
Matrix: Water
Analysis Batch: 140962

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	400	366		ug/L		92	69 - 134
1,1,2,2-Tetrachloroethane	400	306		ug/L		77	59 - 136
1,1,2-Trichloroethane	400	351		ug/L		88	75 - 126
1,1-Dichloroethane	400	361		ug/L		90	77 - 122
1,1-Dichloroethene	400	388		ug/L		97	69 - 127
1,2-Dichlorobenzene	400	385		ug/L		96	75 - 125
1,2-Dichloroethane	400	336		ug/L		84	63 - 140
1,2-Dichloropropane	400	361		ug/L		90	75 - 114
1,3-Dichlorobenzene	400	360		ug/L		90	76 - 125
1,4-Dichlorobenzene	400	365		ug/L		91	76 - 123
Benzene	400	389		ug/L		97	80 - 120
Bromoform	400	310		ug/L		78	49 - 137
Bromomethane	400	581		ug/L		145	45 - 150
Carbon tetrachloride	400	402		ug/L		101	63 - 139
Chlorobenzene	400	380		ug/L		95	83 - 120
Chloroform	400	407		ug/L		102	77 - 119
Chloromethane	400	319		ug/L		80	49 - 133
Chlorodibromomethane	400	362		ug/L		90	64 - 124
cis-1,3-Dichloropropene	400	357		ug/L		89	74 - 123
Dichlorobromomethane	400	384		ug/L		96	71 - 119
Ethylbenzene	400	351		ug/L		88	79 - 124
Methylene Chloride	400	388		ug/L		97	75 - 120
Tetrachloroethene	400	370		ug/L		92	78 - 126
Toluene	400	413		ug/L		103	80 - 124
trans-1,2-Dichloroethene	400	383		ug/L		96	78 - 120
trans-1,3-Dichloropropene	400	348		ug/L		87	63 - 122
Trichloroethene	400	427		ug/L		107	80 - 120
Vinyl chloride	400	312		ug/L		78	57 - 128
Chloroethane	400	455		ug/L		114	33 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*62 - 123*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*90*		*80 - 120*

Lab Sample ID: MB 180-141065/5
Matrix: Water
Analysis Batch: 141065

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			05/09/15 14:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.93	ug/L			05/09/15 14:00	1
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			05/09/15 14:00	1
1,1-Dichloroethane	ND		5.0	1.0	ug/L			05/09/15 14:00	1
1,1-Dichloroethene	ND		5.0	1.1	ug/L			05/09/15 14:00	1
1,2-Dichlorobenzene	ND		5.0	0.68	ug/L			05/09/15 14:00	1
1,2-Dichloroethane	ND		5.0	0.96	ug/L			05/09/15 14:00	1

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

Lab Sample ID: MB 180-141065/5
Matrix: Water
Analysis Batch: 141065

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		5.0	1.3	ug/L			05/09/15 14:00	1
1,3-Dichlorobenzene	ND		5.0	0.51	ug/L			05/09/15 14:00	1
1,4-Dichlorobenzene	ND		5.0	0.53	ug/L			05/09/15 14:00	1
2-Chloroethyl vinyl ether	ND		10	1.9	ug/L			05/09/15 14:00	1
Acrolein	ND		100	5.7	ug/L			05/09/15 14:00	1
Acrylonitrile	ND		50	9.0	ug/L			05/09/15 14:00	1
Benzene	ND		5.0	0.99	ug/L			05/09/15 14:00	1
Bromoform	ND		5.0	1.1	ug/L			05/09/15 14:00	1
Bromomethane	ND		5.0	1.6	ug/L			05/09/15 14:00	1
Carbon tetrachloride	ND		5.0	1.1	ug/L			05/09/15 14:00	1
Chlorobenzene	ND		5.0	0.53	ug/L			05/09/15 14:00	1
Chloroform	ND		5.0	1.0	ug/L			05/09/15 14:00	1
Chloromethane	ND		5.0	1.4	ug/L			05/09/15 14:00	1
Chlorodibromomethane	ND		5.0	0.65	ug/L			05/09/15 14:00	1
cis-1,3-Dichloropropene	ND		5.0	0.73	ug/L			05/09/15 14:00	1
Dichlorobromomethane	ND		5.0	0.93	ug/L			05/09/15 14:00	1
Ethylbenzene	ND		5.0	0.62	ug/L			05/09/15 14:00	1
Methylene Chloride	1.10	J	5.0	1.1	ug/L			05/09/15 14:00	1
Tetrachloroethene	ND		5.0	0.82	ug/L			05/09/15 14:00	1
Toluene	ND		5.0	0.85	ug/L			05/09/15 14:00	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/L			05/09/15 14:00	1
trans-1,3-Dichloropropene	ND		5.0	0.58	ug/L			05/09/15 14:00	1
Trichloroethene	ND		5.0	0.80	ug/L			05/09/15 14:00	1
Vinyl chloride	ND		5.0	1.3	ug/L			05/09/15 14:00	1
Chloroethane	ND		5.0	0.75	ug/L			05/09/15 14:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*62 - 123*		*05/09/15 14:00*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*05/09/15 14:00*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*05/09/15 14:00*	*1*
Toluene-d8 (Surr)	*120*		*80 - 120*		*05/09/15 14:00*	*1*

Lab Sample ID: LCS 180-141065/9
Matrix: Water
Analysis Batch: 141065

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	40.0	40.4		ug/L		101	69 - 134
1,1,2,2-Tetrachloroethane	40.0	29.9		ug/L		75	59 - 136
1,1,2-Trichloroethane	40.0	31.5		ug/L		79	75 - 126
1,1-Dichloroethane	40.0	38.3		ug/L		96	77 - 122
1,1-Dichloroethene	40.0	38.2		ug/L		95	69 - 127
1,2-Dichlorobenzene	40.0	36.8		ug/L		92	75 - 125
1,2-Dichloroethane	40.0	35.8		ug/L		90	63 - 140
1,2-Dichloropropane	40.0	36.6		ug/L		91	75 - 114
1,3-Dichlorobenzene	40.0	40.9		ug/L		102	76 - 125
1,4-Dichlorobenzene	40.0	38.1		ug/L		95	76 - 123
Benzene	40.0	38.7		ug/L		97	80 - 120

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

Lab Sample ID: LCS 180-141065/9
Matrix: Water
Analysis Batch: 141065

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	40.0	30.8		ug/L		77	49 - 137
Bromomethane	40.0	45.0		ug/L		112	45 - 150
Carbon tetrachloride	40.0	42.5		ug/L		106	63 - 139
Chlorobenzene	40.0	39.7		ug/L		99	83 - 120
Chloroform	40.0	38.1		ug/L		95	77 - 119
Chloromethane	40.0	40.5		ug/L		101	49 - 133
Chlorodibromomethane	40.0	35.9		ug/L		90	64 - 124
cis-1,3-Dichloropropene	40.0	34.7		ug/L		87	74 - 123
Dichlorobromomethane	40.0	39.3		ug/L		98	71 - 119
Ethylbenzene	40.0	41.8		ug/L		104	79 - 124
Methylene Chloride	40.0	35.9		ug/L		90	75 - 120
Tetrachloroethene	40.0	40.6		ug/L		101	78 - 126
Toluene	40.0	39.4		ug/L		98	80 - 124
trans-1,2-Dichloroethene	40.0	37.5		ug/L		94	78 - 120
trans-1,3-Dichloropropene	40.0	37.0		ug/L		93	63 - 122
Trichloroethene	40.0	39.6		ug/L		99	80 - 120
Vinyl chloride	40.0	38.6		ug/L		96	57 - 128
Chloroethane	40.0	44.2		ug/L		110	33 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*62 - 123*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-140746/1-A
Matrix: Water
Analysis Batch: 141231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.029	ug/L		05/06/15 12:13	05/12/15 09:06	1
Acenaphthylene	ND		0.20	0.022	ug/L		05/06/15 12:13	05/12/15 09:06	1
Anthracene	ND		0.20	0.019	ug/L		05/06/15 12:13	05/12/15 09:06	1
Benzidine	ND		20	4.7	ug/L		05/06/15 12:13	05/12/15 09:06	1
Benzo[a]anthracene	ND		0.20	0.037	ug/L		05/06/15 12:13	05/12/15 09:06	1
Benzo[b]fluoranthene	ND		0.20	0.049	ug/L		05/06/15 12:13	05/12/15 09:06	1
Benzo[k]fluoranthene	ND		0.20	0.030	ug/L		05/06/15 12:13	05/12/15 09:06	1
Benzoic acid	ND		5.0	1.6	ug/L		05/06/15 12:13	05/12/15 09:06	1
Benzo[g,h,i]perylene	ND		0.20	0.029	ug/L		05/06/15 12:13	05/12/15 09:06	1
Benzo[a]pyrene	ND		0.20	0.028	ug/L		05/06/15 12:13	05/12/15 09:06	1
Bis(2-chloroethoxy)methane	ND		1.0	0.13	ug/L		05/06/15 12:13	05/12/15 09:06	1
Bis(2-chloroethyl)ether	ND		1.0	0.032	ug/L		05/06/15 12:13	05/12/15 09:06	1
Bis(2-ethylhexyl) phthalate	ND		2.0	0.44	ug/L		05/06/15 12:13	05/12/15 09:06	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.024	ug/L		05/06/15 12:13	05/12/15 09:06	1
4-Bromophenyl phenyl ether	ND		1.0	0.12	ug/L		05/06/15 12:13	05/12/15 09:06	1
4-Chlorophenyl phenyl ether	ND		1.0	0.080	ug/L		05/06/15 12:13	05/12/15 09:06	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-140746/1-A
Matrix: Water
Analysis Batch: 141231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		0.20	0.031	ug/L		05/06/15 12:13	05/12/15 09:06	1
Butyl benzyl phthalate	ND		1.0	0.21	ug/L		05/06/15 12:13	05/12/15 09:06	1
Chrysene	ND		0.20	0.031	ug/L		05/06/15 12:13	05/12/15 09:06	1
Dibenz(a,h)anthracene	ND		0.20	0.027	ug/L		05/06/15 12:13	05/12/15 09:06	1
Di-n-butyl phthalate	ND		1.0	0.24	ug/L		05/06/15 12:13	05/12/15 09:06	1
Di-n-octyl phthalate	ND		1.0	0.20	ug/L		05/06/15 12:13	05/12/15 09:06	1
Diethyl phthalate	ND		1.0	0.30	ug/L		05/06/15 12:13	05/12/15 09:06	1
Dimethyl phthalate	ND		1.0	0.18	ug/L		05/06/15 12:13	05/12/15 09:06	1
3,3'-Dichlorobenzidine	ND		1.0	0.15	ug/L		05/06/15 12:13	05/12/15 09:06	1
2,4-Dinitrotoluene	ND		1.0	0.21	ug/L		05/06/15 12:13	05/12/15 09:06	1
2,6-Dinitrotoluene	ND		1.0	0.14	ug/L		05/06/15 12:13	05/12/15 09:06	1
2-Chlorophenol	ND		1.0	0.23	ug/L		05/06/15 12:13	05/12/15 09:06	1
2,4-Dichlorophenol	ND		1.0	0.067	ug/L		05/06/15 12:13	05/12/15 09:06	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		05/06/15 12:13	05/12/15 09:06	1
2,4-Dinitrophenol	ND		5.0	2.5	ug/L		05/06/15 12:13	05/12/15 09:06	1
2-Nitrophenol	ND		1.0	0.11	ug/L		05/06/15 12:13	05/12/15 09:06	1
2,4,6-Trichlorophenol	ND		1.0	0.30	ug/L		05/06/15 12:13	05/12/15 09:06	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		1.0	0.12	ug/L		05/06/15 12:13	05/12/15 09:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.085	ug/L		05/06/15 12:13	05/12/15 09:06	1
4-Chloro-3-methylphenol	ND		1.0	0.17	ug/L		05/06/15 12:13	05/12/15 09:06	1
4-Nitrophenol	ND		5.0	0.80	ug/L		05/06/15 12:13	05/12/15 09:06	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.6	ug/L		05/06/15 12:13	05/12/15 09:06	1
Fluoranthene	ND		0.20	0.021	ug/L		05/06/15 12:13	05/12/15 09:06	1
Fluorene	ND		0.20	0.024	ug/L		05/06/15 12:13	05/12/15 09:06	1
Hexachlorobenzene	ND		1.0	0.061	ug/L		05/06/15 12:13	05/12/15 09:06	1
Hexachlorobutadiene	ND		1.0	0.094	ug/L		05/06/15 12:13	05/12/15 09:06	1
Hexachlorocyclopentadiene	ND		1.0	0.14	ug/L		05/06/15 12:13	05/12/15 09:06	1
Hexachloroethane	ND		1.0	0.14	ug/L		05/06/15 12:13	05/12/15 09:06	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		05/06/15 12:13	05/12/15 09:06	1
Isophorone	ND		1.0	0.074	ug/L		05/06/15 12:13	05/12/15 09:06	1
Naphthalene	ND		0.20	0.023	ug/L		05/06/15 12:13	05/12/15 09:06	1
Nitrobenzene	ND		2.0	0.15	ug/L		05/06/15 12:13	05/12/15 09:06	1
N-Nitrosodi-n-propylamine	ND		1.0	0.050	ug/L		05/06/15 12:13	05/12/15 09:06	1
N-Nitrosodimethylamine	ND		1.0	0.12	ug/L		05/06/15 12:13	05/12/15 09:06	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		05/06/15 12:13	05/12/15 09:06	1
Phenanthrene	ND		0.20	0.042	ug/L		05/06/15 12:13	05/12/15 09:06	1
Pyrene	ND		0.20	0.023	ug/L		05/06/15 12:13	05/12/15 09:06	1
Pentachlorophenol	ND		1.0	0.50	ug/L		05/06/15 12:13	05/12/15 09:06	1
Phenol	ND		1.0	0.055	ug/L		05/06/15 12:13	05/12/15 09:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*54*		*30 - 118*	*05/06/15 12:13*	*05/12/15 09:06*	*1*
2-Fluorobiphenyl	*51*		*28 - 109*	*05/06/15 12:13*	*05/12/15 09:06*	*1*
2-Fluorophenol (Surr)	*57*		*20 - 105*	*05/06/15 12:13*	*05/12/15 09:06*	*1*
Nitrobenzene-d5 (Surr)	*57*		*27 - 114*	*05/06/15 12:13*	*05/12/15 09:06*	*1*
Phenol-d5 (Surr)	*61*		*25 - 105*	*05/06/15 12:13*	*05/12/15 09:06*	*1*
Terphenyl-d14 (Surr)	*65*		*20 - 118*	*05/06/15 12:13*	*05/12/15 09:06*	*1*

Lab Sample ID: LCS 180-140746/2-A
Matrix: Water
Analysis Batch: 141231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	11.1		ug/L		56	47 - 100
Acenaphthylene	20.0	12.2		ug/L		61	47 - 100
Anthracene	20.0	12.6		ug/L		63	49 - 100
Benzidine	20.0	7.11	J	ug/L		36	10 - 100
Benzo[a]anthracene	20.0	13.6		ug/L		68	50 - 100
Benzo[b]fluoranthene	20.0	12.8		ug/L		64	43 - 100
Benzo[k]fluoranthene	20.0	13.6		ug/L		68	47 - 100
Benzoic acid	20.0	12.1		ug/L		61	14 - 117
Benzo[g,h,i]perylene	20.0	14.8		ug/L		74	48 - 100
Benzo[a]pyrene	20.0	13.9		ug/L		69	47 - 100
Bis(2-chloroethoxy)methane	20.0	11.6		ug/L		58	45 - 100
Bis(2-chloroethyl)ether	20.0	11.6		ug/L		58	42 - 100
Bis(2-ethylhexyl) phthalate	20.0	14.1		ug/L		70	35 - 118
2,2'-oxybis[1-chloropropane]	20.0	10.8		ug/L		54	38 - 100
4-Bromophenyl phenyl ether	20.0	12.2		ug/L		61	46 - 100
4-Chlorophenyl phenyl ether	20.0	12.1		ug/L		60	48 - 100
2-Chloronaphthalene	20.0	10.7		ug/L		54	42 - 100
Butyl benzyl phthalate	20.0	14.0		ug/L		70	45 - 105
Chrysene	20.0	13.4		ug/L		67	49 - 100
Dibenz(a,h)anthracene	20.0	14.6		ug/L		73	48 - 100
Di-n-butyl phthalate	20.0	12.8		ug/L		64	49 - 101
Di-n-octyl phthalate	20.0	14.1		ug/L		70	40 - 105
Diethyl phthalate	20.0	11.4		ug/L		57	48 - 100
Dimethyl phthalate	20.0	12.0		ug/L		60	49 - 100
3,3'-Dichlorobenzidine	20.0	12.4		ug/L		62	41 - 100
2,4-Dinitrotoluene	20.0	13.4		ug/L		67	49 - 100
2,6-Dinitrotoluene	20.0	12.8		ug/L		64	50 - 100
2-Chlorophenol	20.0	12.0		ug/L		60	41 - 100
2,4-Dichlorophenol	20.0	12.1		ug/L		61	45 - 100
2,4-Dimethylphenol	20.0	12.1		ug/L		60	45 - 100
2,4-Dinitrophenol	40.0	20.6		ug/L		51	36 - 100
2-Nitrophenol	20.0	12.1		ug/L		61	45 - 100
2,4,6-Trichlorophenol	20.0	11.7		ug/L		58	47 - 101
1,2-Diphenylhydrazine(as Azobenzene)	20.0	12.1		ug/L		60	49 - 100
1,2,4-Trichlorobenzene	20.0	11.4		ug/L		57	43 - 100
4-Chloro-3-methylphenol	20.0	12.9		ug/L		64	47 - 100
4-Nitrophenol	40.0	25.6		ug/L		64	44 - 129
4,6-Dinitro-2-methylphenol	40.0	25.2		ug/L		63	46 - 100
Fluoranthene	20.0	12.7		ug/L		64	48 - 100
Fluorene	20.0	12.4		ug/L		62	48 - 100
Hexachlorobenzene	20.0	11.9		ug/L		60	45 - 100
Hexachlorobutadiene	20.0	11.4		ug/L		57	42 - 100
Hexachlorocyclopentadiene	20.0	11.4		ug/L		57	37 - 109
Hexachloroethane	20.0	12.1		ug/L		60	39 - 100
Indeno[1,2,3-cd]pyrene	20.0	14.4		ug/L		72	47 - 100
Isophorone	20.0	11.9		ug/L		60	48 - 100
Naphthalene	20.0	11.5		ug/L		58	44 - 100
Nitrobenzene	20.0	11.6		ug/L		58	47 - 100
N-Nitrosodi-n-propylamine	20.0	11.6		ug/L		58	42 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-140746/2-A
Matrix: Water
Analysis Batch: 141231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	20.0	10.7		ug/L		54	41 - 100
N-Nitrosodiphenylamine	40.0	22.3		ug/L		56	48 - 100
Phenanthrene	20.0	12.7		ug/L		64	48 - 100
Pyrene	20.0	14.3		ug/L		72	44 - 100
Pentachlorophenol	40.0	20.2		ug/L		50	36 - 105
Phenol	20.0	11.7		ug/L		58	43 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*58*		*30 - 118*
2-Fluorobiphenyl	*53*		*28 - 109*
2-Fluorophenol (Surr)	*52*		*20 - 105*
Nitrobenzene-d5 (Surr)	*55*		*27 - 114*
Phenol-d5 (Surr)	*57*		*25 - 105*
Terphenyl-d14 (Surr)	*60*		*20 - 118*

Lab Sample ID: LCSD 180-140746/3-A
Matrix: Water
Analysis Batch: 141231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140746

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	20.0	10.8		ug/L		54	47 - 100	2	25
Acenaphthylene	20.0	11.9		ug/L		59	47 - 100	2	26
Anthracene	20.0	12.4		ug/L		62	49 - 100	1	20
Benzidine	20.0	7.09	J	ug/L		35	10 - 100	0	35
Benzo[a]anthracene	20.0	13.2		ug/L		66	50 - 100	3	20
Benzo[b]fluoranthene	20.0	12.4		ug/L		62	43 - 100	3	22
Benzo[k]fluoranthene	20.0	13.4		ug/L		67	47 - 100	1	24
Benzoic acid	20.0	12.2		ug/L		61	14 - 117	0	20
Benzo[g,h,i]perylene	20.0	14.1		ug/L		70	48 - 100	5	21
Benzo[a]pyrene	20.0	13.5		ug/L		68	47 - 100	2	22
Bis(2-chloroethoxy)methane	20.0	11.4		ug/L		57	45 - 100	2	28
Bis(2-chloroethyl)ether	20.0	11.4		ug/L		57	42 - 100	1	28
Bis(2-ethylhexyl) phthalate	20.0	13.8		ug/L		69	35 - 118	2	35
2,2'-oxybis[1-chloropropane]	20.0	10.9		ug/L		55	38 - 100	1	28
4-Bromophenyl phenyl ether	20.0	12.0		ug/L		60	46 - 100	1	22
4-Chlorophenyl phenyl ether	20.0	11.8		ug/L		59	48 - 100	2	25
2-Chloronaphthalene	20.0	10.6		ug/L		53	42 - 100	1	26
Butyl benzyl phthalate	20.0	13.8		ug/L		69	45 - 105	1	23
Chrysene	20.0	13.5		ug/L		67	49 - 100	0	20
Dibenz(a,h)anthracene	20.0	13.9		ug/L		70	48 - 100	5	21
Di-n-butyl phthalate	20.0	12.8		ug/L		64	49 - 101	0	21
Di-n-octyl phthalate	20.0	13.9		ug/L		69	40 - 105	1	23
Diethyl phthalate	20.0	10.8		ug/L		54	48 - 100	5	20
Dimethyl phthalate	20.0	11.7		ug/L		59	49 - 100	2	24
3,3'-Dichlorobenzidine	20.0	12.3		ug/L		62	41 - 100	1	28
2,4-Dinitrotoluene	20.0	13.2		ug/L		66	49 - 100	2	21
2,6-Dinitrotoluene	20.0	12.7		ug/L		63	50 - 100	1	23
2-Chlorophenol	20.0	12.1		ug/L		60	41 - 100	1	28

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 180-140746/3-A
Matrix: Water
Analysis Batch: 141231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140746

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dichlorophenol	20.0	12.0		ug/L		60	45 - 100	1	29
2,4-Dimethylphenol	20.0	12.0		ug/L		60	45 - 100	1	25
2,4-Dinitrophenol	40.0	21.1		ug/L		53	36 - 100	3	18
2-Nitrophenol	20.0	12.0		ug/L		60	45 - 100	1	31
2,4,6-Trichlorophenol	20.0	11.5		ug/L		57	47 - 101	2	28
1,2-Diphenylhydrazine(as Azobenzene)	20.0	11.8		ug/L		59	49 - 100	3	22
1,2,4-Trichlorobenzene	20.0	11.3		ug/L		57	43 - 100	1	22
4-Chloro-3-methylphenol	20.0	12.8		ug/L		64	47 - 100	1	27
4-Nitrophenol	40.0	25.5		ug/L		64	44 - 129	0	21
4,6-Dinitro-2-methylphenol	40.0	24.9		ug/L		62	46 - 100	1	19
Fluoranthene	20.0	12.5		ug/L		62	48 - 100	2	20
Fluorene	20.0	12.0		ug/L		60	48 - 100	3	22
Hexachlorobenzene	20.0	11.7		ug/L		59	45 - 100	2	19
Hexachlorobutadiene	20.0	11.3		ug/L		56	42 - 100	1	18
Hexachlorocyclopentadiene	20.0	11.2		ug/L		56	37 - 109	2	16
Hexachloroethane	20.0	12.2		ug/L		61	39 - 100	1	16
Indeno[1,2,3-cd]pyrene	20.0	14.1		ug/L		70	47 - 100	2	21
Isophorone	20.0	11.5		ug/L		57	48 - 100	4	30
Naphthalene	20.0	11.4		ug/L		57	44 - 100	1	25
Nitrobenzene	20.0	11.4		ug/L		57	47 - 100	1	27
N-Nitrosodi-n-propylamine	20.0	11.6		ug/L		58	42 - 100	0	27
N-Nitrosodimethylamine	20.0	11.6		ug/L		58	41 - 100	8	30
N-Nitrosodiphenylamine	40.0	21.7		ug/L		54	48 - 100	2	21
Phenanthrene	20.0	12.6		ug/L		63	48 - 100	1	20
Pyrene	20.0	14.0		ug/L		70	44 - 100	2	20
Pentachlorophenol	40.0	20.4		ug/L		51	36 - 105	1	15
Phenol	20.0	11.5		ug/L		57	43 - 100	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*57*		*30 - 118*
2-Fluorobiphenyl	*53*		*28 - 109*
2-Fluorophenol (Surr)	*53*		*20 - 105*
Nitrobenzene-d5 (Surr)	*55*		*27 - 114*
Phenol-d5 (Surr)	*57*		*25 - 105*
Terphenyl-d14 (Surr)	*59*		*20 - 118*

Lab Sample ID: MB 180-140846/1-A
Matrix: Water
Analysis Batch: 141553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.029	ug/L		05/07/15 09:32	05/14/15 14:23	1
Acenaphthylene	ND		0.20	0.022	ug/L		05/07/15 09:32	05/14/15 14:23	1
Anthracene	ND		0.20	0.019	ug/L		05/07/15 09:32	05/14/15 14:23	1
Benzidine	ND		20	4.7	ug/L		05/07/15 09:32	05/14/15 14:23	1
Benzo[a]anthracene	ND		0.20	0.037	ug/L		05/07/15 09:32	05/14/15 14:23	1
Benzo[b]fluoranthene	ND		0.20	0.049	ug/L		05/07/15 09:32	05/14/15 14:23	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-140846/1-A
Matrix: Water
Analysis Batch: 141553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.030	ug/L		05/07/15 09:32	05/14/15 14:23	1
Benzoic acid	ND		5.0	1.6	ug/L		05/07/15 09:32	05/14/15 14:23	1
Benzo[g,h,i]perylene	ND		0.20	0.029	ug/L		05/07/15 09:32	05/14/15 14:23	1
Benzo[a]pyrene	ND		0.20	0.028	ug/L		05/07/15 09:32	05/14/15 14:23	1
Bis(2-chloroethoxy)methane	ND		1.0	0.13	ug/L		05/07/15 09:32	05/14/15 14:23	1
Bis(2-chloroethyl)ether	ND		1.0	0.032	ug/L		05/07/15 09:32	05/14/15 14:23	1
Bis(2-ethylhexyl) phthalate	ND		2.0	0.44	ug/L		05/07/15 09:32	05/14/15 14:23	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.024	ug/L		05/07/15 09:32	05/14/15 14:23	1
4-Bromophenyl phenyl ether	ND		1.0	0.12	ug/L		05/07/15 09:32	05/14/15 14:23	1
4-Chlorophenyl phenyl ether	ND		1.0	0.080	ug/L		05/07/15 09:32	05/14/15 14:23	1
2-Chloronaphthalene	ND		0.20	0.031	ug/L		05/07/15 09:32	05/14/15 14:23	1
Butyl benzyl phthalate	ND		1.0	0.21	ug/L		05/07/15 09:32	05/14/15 14:23	1
Chrysene	ND		0.20	0.031	ug/L		05/07/15 09:32	05/14/15 14:23	1
Dibenz(a,h)anthracene	ND		0.20	0.027	ug/L		05/07/15 09:32	05/14/15 14:23	1
Di-n-butyl phthalate	ND		1.0	0.24	ug/L		05/07/15 09:32	05/14/15 14:23	1
Di-n-octyl phthalate	ND		1.0	0.20	ug/L		05/07/15 09:32	05/14/15 14:23	1
Diethyl phthalate	ND		1.0	0.30	ug/L		05/07/15 09:32	05/14/15 14:23	1
Dimethyl phthalate	ND		1.0	0.18	ug/L		05/07/15 09:32	05/14/15 14:23	1
3,3'-Dichlorobenzidine	ND		1.0	0.15	ug/L		05/07/15 09:32	05/14/15 14:23	1
2,4-Dinitrotoluene	ND		1.0	0.21	ug/L		05/07/15 09:32	05/14/15 14:23	1
2,6-Dinitrotoluene	ND		1.0	0.14	ug/L		05/07/15 09:32	05/14/15 14:23	1
2-Chlorophenol	ND		1.0	0.23	ug/L		05/07/15 09:32	05/14/15 14:23	1
2,4-Dichlorophenol	ND		1.0	0.067	ug/L		05/07/15 09:32	05/14/15 14:23	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		05/07/15 09:32	05/14/15 14:23	1
2,4-Dinitrophenol	ND		5.0	2.5	ug/L		05/07/15 09:32	05/14/15 14:23	1
2-Nitrophenol	ND		1.0	0.11	ug/L		05/07/15 09:32	05/14/15 14:23	1
2,4,6-Trichlorophenol	ND		1.0	0.30	ug/L		05/07/15 09:32	05/14/15 14:23	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		1.0	0.12	ug/L		05/07/15 09:32	05/14/15 14:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.085	ug/L		05/07/15 09:32	05/14/15 14:23	1
4-Chloro-3-methylphenol	ND		1.0	0.17	ug/L		05/07/15 09:32	05/14/15 14:23	1
4-Nitrophenol	ND		5.0	0.80	ug/L		05/07/15 09:32	05/14/15 14:23	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.6	ug/L		05/07/15 09:32	05/14/15 14:23	1
Fluoranthene	ND		0.20	0.021	ug/L		05/07/15 09:32	05/14/15 14:23	1
Fluorene	ND		0.20	0.024	ug/L		05/07/15 09:32	05/14/15 14:23	1
Hexachlorobenzene	ND		1.0	0.061	ug/L		05/07/15 09:32	05/14/15 14:23	1
Hexachlorobutadiene	ND		1.0	0.094	ug/L		05/07/15 09:32	05/14/15 14:23	1
Hexachlorocyclopentadiene	ND		1.0	0.14	ug/L		05/07/15 09:32	05/14/15 14:23	1
Hexachloroethane	ND		1.0	0.14	ug/L		05/07/15 09:32	05/14/15 14:23	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		05/07/15 09:32	05/14/15 14:23	1
Isophorone	ND		1.0	0.074	ug/L		05/07/15 09:32	05/14/15 14:23	1
Naphthalene	ND		0.20	0.023	ug/L		05/07/15 09:32	05/14/15 14:23	1
Nitrobenzene	ND		2.0	0.15	ug/L		05/07/15 09:32	05/14/15 14:23	1
N-Nitrosodi-n-propylamine	ND		1.0	0.050	ug/L		05/07/15 09:32	05/14/15 14:23	1
N-Nitrosodimethylamine	ND		1.0	0.12	ug/L		05/07/15 09:32	05/14/15 14:23	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		05/07/15 09:32	05/14/15 14:23	1
Phenanthrene	ND		0.20	0.042	ug/L		05/07/15 09:32	05/14/15 14:23	1
Pyrene	ND		0.20	0.023	ug/L		05/07/15 09:32	05/14/15 14:23	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-140846/1-A
Matrix: Water
Analysis Batch: 141553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.50	ug/L		05/07/15 09:32	05/14/15 14:23	1
Phenol	ND		1.0	0.055	ug/L		05/07/15 09:32	05/14/15 14:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*53*		*30 - 118*	*05/07/15 09:32*	*05/14/15 14:23*	*1*
2-Fluorobiphenyl	*52*		*28 - 109*	*05/07/15 09:32*	*05/14/15 14:23*	*1*
2-Fluorophenol (Surr)	*60*		*20 - 105*	*05/07/15 09:32*	*05/14/15 14:23*	*1*
Nitrobenzene-d5 (Surr)	*56*		*27 - 114*	*05/07/15 09:32*	*05/14/15 14:23*	*1*
Phenol-d5 (Surr)	*64*		*25 - 105*	*05/07/15 09:32*	*05/14/15 14:23*	*1*
Terphenyl-d14 (Surr)	*56*		*20 - 118*	*05/07/15 09:32*	*05/14/15 14:23*	*1*

Lab Sample ID: LCS 180-140846/2-A
Matrix: Water
Analysis Batch: 141553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	10.9		ug/L		55	47 - 100
Acenaphthylene	20.0	11.9		ug/L		59	47 - 100
Anthracene	20.0	12.4		ug/L		62	49 - 100
Benzidine	20.0	8.19	J	ug/L		41	10 - 100
Benzo[a]anthracene	20.0	13.0		ug/L		65	50 - 100
Benzo[b]fluoranthene	20.0	11.8		ug/L		59	43 - 100
Benzo[k]fluoranthene	20.0	13.2		ug/L		66	47 - 100
Benzoic acid	20.0	12.9		ug/L		65	14 - 117
Benzo[g,h,i]perylene	20.0	13.9		ug/L		70	48 - 100
Benzo[a]pyrene	20.0	13.3		ug/L		67	47 - 100
Bis(2-chloroethoxy)methane	20.0	11.8		ug/L		59	45 - 100
Bis(2-chloroethyl)ether	20.0	11.7		ug/L		59	42 - 100
Bis(2-ethylhexyl) phthalate	20.0	13.7		ug/L		68	35 - 118
2,2'-oxybis[1-chloropropane]	20.0	10.8		ug/L		54	38 - 100
4-Bromophenyl phenyl ether	20.0	11.5		ug/L		58	46 - 100
4-Chlorophenyl phenyl ether	20.0	12.0		ug/L		60	48 - 100
2-Chloronaphthalene	20.0	10.4		ug/L		52	42 - 100
Butyl benzyl phthalate	20.0	13.5		ug/L		68	45 - 105
Chrysene	20.0	13.0		ug/L		65	49 - 100
Dibenz(a,h)anthracene	20.0	13.7		ug/L		68	48 - 100
Di-n-butyl phthalate	20.0	13.1		ug/L		66	49 - 101
Di-n-octyl phthalate	20.0	13.8		ug/L		69	40 - 105
Diethyl phthalate	20.0	11.9		ug/L		59	48 - 100
Dimethyl phthalate	20.0	12.0		ug/L		60	49 - 100
3,3'-Dichlorobenzidine	20.0	13.0		ug/L		65	41 - 100
2,4-Dinitrotoluene	20.0	13.9		ug/L		69	49 - 100
2,6-Dinitrotoluene	20.0	13.0		ug/L		65	50 - 100
2-Chlorophenol	20.0	12.1		ug/L		61	41 - 100
2,4-Dichlorophenol	20.0	12.5		ug/L		63	45 - 100
2,4-Dimethylphenol	20.0	12.6		ug/L		63	45 - 100
2,4-Dinitrophenol	40.0	23.4		ug/L		59	36 - 100
2-Nitrophenol	20.0	12.1		ug/L		61	45 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-140846/2-A
Matrix: Water
Analysis Batch: 141553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,6-Trichlorophenol	20.0	11.7		ug/L		58	47 - 101
1,2-Diphenylhydrazine(as Azobenzene)	20.0	11.1		ug/L		56	49 - 100
1,2,4-Trichlorobenzene	20.0	11.6		ug/L		58	43 - 100
4-Chloro-3-methylphenol	20.0	13.3		ug/L		66	47 - 100
4-Nitrophenol	40.0	27.2		ug/L		68	44 - 129
4,6-Dinitro-2-methylphenol	40.0	25.7		ug/L		64	46 - 100
Fluoranthene	20.0	13.2		ug/L		66	48 - 100
Fluorene	20.0	12.5		ug/L		62	48 - 100
Hexachlorobenzene	20.0	11.4		ug/L		57	45 - 100
Hexachlorobutadiene	20.0	11.6		ug/L		58	42 - 100
Hexachlorocyclopentadiene	20.0	10.8		ug/L		54	37 - 109
Hexachloroethane	20.0	12.0		ug/L		60	39 - 100
Indeno[1,2,3-cd]pyrene	20.0	13.6		ug/L		68	47 - 100
Isophorone	20.0	11.9		ug/L		60	48 - 100
Naphthalene	20.0	11.7		ug/L		58	44 - 100
Nitrobenzene	20.0	11.7		ug/L		58	47 - 100
N-Nitrosodi-n-propylamine	20.0	12.4		ug/L		62	42 - 100
N-Nitrosodimethylamine	20.0	11.8		ug/L		59	41 - 100
N-Nitrosodiphenylamine	40.0	21.1		ug/L		53	48 - 100
Phenanthrene	20.0	12.5		ug/L		62	48 - 100
Pyrene	20.0	12.5		ug/L		62	44 - 100
Pentachlorophenol	40.0	20.5		ug/L		51	36 - 105
Phenol	20.0	11.9		ug/L		59	43 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*56*		*30 - 118*
2-Fluorobiphenyl	*52*		*28 - 109*
2-Fluorophenol (Surr)	*56*		*20 - 105*
Nitrobenzene-d5 (Surr)	*55*		*27 - 114*
Phenol-d5 (Surr)	*58*		*25 - 105*
Terphenyl-d14 (Surr)	*54*		*20 - 118*

Lab Sample ID: LCSD 180-140846/3-A
Matrix: Water
Analysis Batch: 141553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	20.0	11.1		ug/L		56	47 - 100	2	25
Acenaphthylene	20.0	12.2		ug/L		61	47 - 100	3	26
Anthracene	20.0	12.4		ug/L		62	49 - 100	0	20
Benzidine	20.0	8.01	J	ug/L		40	10 - 100	2	35
Benzo[a]anthracene	20.0	13.2		ug/L		66	50 - 100	1	20
Benzo[b]fluoranthene	20.0	12.3		ug/L		61	43 - 100	4	22
Benzo[k]fluoranthene	20.0	13.6		ug/L		68	47 - 100	3	24
Benzoic acid	20.0	13.7		ug/L		69	14 - 117	6	20
Benzo[g,h,i]perylene	20.0	14.1		ug/L		71	48 - 100	2	21
Benzo[a]pyrene	20.0	13.5		ug/L		68	47 - 100	2	22

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 180-140846/3-A
Matrix: Water
Analysis Batch: 141553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	20.0	11.9		ug/L		60	45 - 100	1	28
Bis(2-chloroethyl)ether	20.0	11.7		ug/L		59	42 - 100	0	28
Bis(2-ethylhexyl) phthalate	20.0	14.0		ug/L		70	35 - 118	2	35
2,2'-oxybis[1-chloropropane]	20.0	11.0		ug/L		55	38 - 100	2	28
4-Bromophenyl phenyl ether	20.0	11.9		ug/L		59	46 - 100	3	22
4-Chlorophenyl phenyl ether	20.0	12.4		ug/L		62	48 - 100	3	25
2-Chloronaphthalene	20.0	10.6		ug/L		53	42 - 100	2	26
Butyl benzyl phthalate	20.0	14.0		ug/L		70	45 - 105	3	23
Chrysene	20.0	13.6		ug/L		68	49 - 100	4	20
Dibenz(a,h)anthracene	20.0	13.9		ug/L		69	48 - 100	1	21
Di-n-butyl phthalate	20.0	13.5		ug/L		67	49 - 101	2	21
Di-n-octyl phthalate	20.0	14.3		ug/L		72	40 - 105	4	23
Diethyl phthalate	20.0	11.9		ug/L		59	48 - 100	0	20
Dimethyl phthalate	20.0	12.3		ug/L		62	49 - 100	3	24
3,3'-Dichlorobenzidine	20.0	13.1		ug/L		66	41 - 100	1	28
2,4-Dinitrotoluene	20.0	14.1		ug/L		71	49 - 100	2	21
2,6-Dinitrotoluene	20.0	13.2		ug/L		66	50 - 100	1	23
2-Chlorophenol	20.0	12.5		ug/L		63	41 - 100	3	28
2,4-Dichlorophenol	20.0	12.7		ug/L		63	45 - 100	1	29
2,4-Dimethylphenol	20.0	12.8		ug/L		64	45 - 100	2	25
2,4-Dinitrophenol	40.0	23.4		ug/L		58	36 - 100	0	18
2-Nitrophenol	20.0	12.4		ug/L		62	45 - 100	2	31
2,4,6-Trichlorophenol	20.0	11.8		ug/L		59	47 - 101	1	28
1,2-Diphenylhydrazine(as Azobenzene)	20.0	11.4		ug/L		57	49 - 100	3	22
1,2,4-Trichlorobenzene	20.0	11.7		ug/L		59	43 - 100	1	22
4-Chloro-3-methylphenol	20.0	13.7		ug/L		69	47 - 100	3	27
4-Nitrophenol	40.0	27.5		ug/L		69	44 - 129	1	21
4,6-Dinitro-2-methylphenol	40.0	26.2		ug/L		66	46 - 100	2	19
Fluoranthene	20.0	13.5		ug/L		68	48 - 100	3	20
Fluorene	20.0	12.6		ug/L		63	48 - 100	1	22
Hexachlorobenzene	20.0	11.5		ug/L		58	45 - 100	1	19
Hexachlorobutadiene	20.0	11.7		ug/L		58	42 - 100	1	18
Hexachlorocyclopentadiene	20.0	11.0		ug/L		55	37 - 109	2	16
Hexachloroethane	20.0	12.2		ug/L		61	39 - 100	2	16
Indeno[1,2,3-cd]pyrene	20.0	13.8		ug/L		69	47 - 100	2	21
Isophorone	20.0	12.3		ug/L		62	48 - 100	3	30
Naphthalene	20.0	11.8		ug/L		59	44 - 100	1	25
Nitrobenzene	20.0	11.7		ug/L		58	47 - 100	0	27
N-Nitrosodi-n-propylamine	20.0	12.7		ug/L		64	42 - 100	2	27
N-Nitrosodimethylamine	20.0	12.1		ug/L		60	41 - 100	2	30
N-Nitrosodiphenylamine	40.0	21.9		ug/L		55	48 - 100	4	21
Phenanthrene	20.0	12.7		ug/L		63	48 - 100	1	20
Pyrene	20.0	13.1		ug/L		65	44 - 100	5	20
Pentachlorophenol	40.0	20.6		ug/L		51	36 - 105	0	15
Phenol	20.0	12.2		ug/L		61	43 - 100	3	25

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 180-140846/3-A
Matrix: Water
Analysis Batch: 141553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140846

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	56		30 - 118
2-Fluorobiphenyl	53		28 - 109
2-Fluorophenol (Surr)	57		20 - 105
Nitrobenzene-d5 (Surr)	56		27 - 114
Phenol-d5 (Surr)	60		25 - 105
Terphenyl-d14 (Surr)	55		20 - 118

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 180-140615/1-A
Matrix: Water
Analysis Batch: 140663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140615

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010	0.0025	ug/L		05/05/15 11:45	05/06/15 08:22	1
PCB-1221	ND		0.010	0.0041	ug/L		05/05/15 11:45	05/06/15 08:22	1
PCB-1232	ND		0.010	0.0039	ug/L		05/05/15 11:45	05/06/15 08:22	1
PCB-1242	ND		0.010	0.0019	ug/L		05/05/15 11:45	05/06/15 08:22	1
PCB-1248	ND		0.010	0.0027	ug/L		05/05/15 11:45	05/06/15 08:22	1
PCB-1254	ND		0.010	0.0030	ug/L		05/05/15 11:45	05/06/15 08:22	1
PCB-1260	ND		0.010	0.0017	ug/L		05/05/15 11:45	05/06/15 08:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	109		43 - 138	05/05/15 11:45	05/06/15 08:22	1
DCB Decachlorobiphenyl (Surr)	125		43 - 138	05/05/15 11:45	05/06/15 08:22	1
Tetrachloro-m-xylene (Surr)	97		34 - 137	05/05/15 11:45	05/06/15 08:22	1
Tetrachloro-m-xylene (Surr)	108		34 - 137	05/05/15 11:45	05/06/15 08:22	1

Lab Sample ID: LCS 180-140615/4-A
Matrix: Water
Analysis Batch: 140663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140615

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.00	1.07		ug/L		107	55 - 120		
PCB-1260			1.00	1.07		ug/L		107	55 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	134		43 - 138
DCB Decachlorobiphenyl (Surr)	134		43 - 138
Tetrachloro-m-xylene (Surr)	109		34 - 137
Tetrachloro-m-xylene (Surr)	113		34 - 137

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCSD 180-140615/5-A
Matrix: Water
Analysis Batch: 140663

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140615

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.00	1.05		ug/L		105	55 - 120	2	25
PCB-1260			1.00	1.09		ug/L		109	55 - 120	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*110*		*43 - 138*
DCB Decachlorobiphenyl (Surr)	*140*	*X*	*43 - 138*
Tetrachloro-m-xylene (Surr)	*104*		*34 - 137*
Tetrachloro-m-xylene (Surr)	*109*		*34 - 137*

Lab Sample ID: MB 180-140781/1-A
Matrix: Water
Analysis Batch: 140736

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140781

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010	0.0025	ug/L		05/06/15 12:40	05/07/15 05:41	1
PCB-1221	ND		0.010	0.0041	ug/L		05/06/15 12:40	05/07/15 05:41	1
PCB-1232	ND		0.010	0.0039	ug/L		05/06/15 12:40	05/07/15 05:41	1
PCB-1242	ND		0.010	0.0019	ug/L		05/06/15 12:40	05/07/15 05:41	1
PCB-1248	ND		0.010	0.0027	ug/L		05/06/15 12:40	05/07/15 05:41	1
PCB-1254	ND		0.010	0.0030	ug/L		05/06/15 12:40	05/07/15 05:41	1
PCB-1260	ND		0.010	0.0017	ug/L		05/06/15 12:40	05/07/15 05:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*43 - 138*	*05/06/15 12:40*	*05/07/15 05:41*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*43 - 138*	*05/06/15 12:40*	*05/07/15 05:41*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*34 - 137*	*05/06/15 12:40*	*05/07/15 05:41*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*34 - 137*	*05/06/15 12:40*	*05/07/15 05:41*	*1*

Lab Sample ID: LCS 180-140781/2-A
Matrix: Water
Analysis Batch: 140736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140781

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016			1.00	0.840		ug/L		84	55 - 120
PCB-1260			1.00	0.844		ug/L		84	55 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*43 - 138*
DCB Decachlorobiphenyl (Surr)	*93*		*43 - 138*
Tetrachloro-m-xylene (Surr)	*102*		*34 - 137*
Tetrachloro-m-xylene (Surr)	*97*		*34 - 137*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCSD 180-140781/3-A
Matrix: Water
Analysis Batch: 140736

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140781

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.00	0.831		ug/L		83	55 - 120	1	25
PCB-1260			1.00	0.833		ug/L		83	55 - 120	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*87*		*43 - 138*
DCB Decachlorobiphenyl (Surr)	*88*		*43 - 138*
Tetrachloro-m-xylene (Surr)	*98*		*34 - 137*
Tetrachloro-m-xylene (Surr)	*92*		*34 - 137*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 180-140485/1-A
Matrix: Water
Analysis Batch: 141080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 140485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.29	ug/L		05/04/15 11:22	05/07/15 17:51	1
Cadmium	ND		1.0	0.11	ug/L		05/04/15 11:22	05/07/15 17:51	1
Chromium	ND		2.0	0.54	ug/L		05/04/15 11:22	05/07/15 17:51	1
Lead	ND		1.0	0.019	ug/L		05/04/15 11:22	05/07/15 17:51	1
Selenium	ND		5.0	0.42	ug/L		05/04/15 11:22	05/07/15 17:51	1
Silver	ND		1.0	0.036	ug/L		05/04/15 11:22	05/07/15 17:51	1
Beryllium	ND		1.0	0.037	ug/L		05/04/15 11:22	05/07/15 17:51	1
Thallium	ND		1.0	0.015	ug/L		05/04/15 11:22	05/07/15 17:51	1
Antimony	ND		2.0	0.019	ug/L		05/04/15 11:22	05/07/15 17:51	1
Nickel	ND		1.0	0.17	ug/L		05/04/15 11:22	05/07/15 17:51	1
Zinc	ND		5.0	0.96	ug/L		05/04/15 11:22	05/07/15 17:51	1
Copper	ND		2.0	0.24	ug/L		05/04/15 11:22	05/07/15 17:51	1

Lab Sample ID: LCS 180-140485/2-A
Matrix: Water
Analysis Batch: 141080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 140485

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic			40.0	37.9		ug/L		95	80 - 120
Cadmium			50.0	47.9		ug/L		96	80 - 120
Chromium			200	193		ug/L		96	80 - 120
Selenium			10.0	9.58		ug/L		96	80 - 120
Silver			50.0	47.4		ug/L		95	80 - 120
Antimony			500	492		ug/L		98	80 - 120
Nickel			500	490		ug/L		98	80 - 120
Zinc			500	481		ug/L		96	80 - 120
Copper			250	244		ug/L		98	80 - 120

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

Lab Sample ID: LCS 180-140485/2-A
Matrix: Water
Analysis Batch: 141088

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 140485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	20.0	21.4		ug/L		107	80 - 120
Beryllium	50.0	45.3		ug/L		91	80 - 120
Thallium	50.0	52.5		ug/L		105	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-141138/1-A
Matrix: Water
Analysis Batch: 141247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.078	ug/L		05/11/15 08:34	05/11/15 17:53	1

Lab Sample ID: LCS 180-141138/2-A
Matrix: Water
Analysis Batch: 141247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.63		ug/L		105	80 - 120

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 240-181813/1-A
Matrix: Water
Analysis Batch: 181838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.0	mg/L		05/21/15 08:59	05/21/15 08:59	1

Lab Sample ID: LCS 240-181813/2-A
Matrix: Water
Analysis Batch: 181838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	35.5		mg/L		89	78 - 114

Method: 9014 - Cyanide

Lab Sample ID: MB 180-141255/4-A
Matrix: Water
Analysis Batch: 141317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		10	2.5	ug/L		05/12/15 13:00	05/12/15 14:06	1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: HLCS 180-141255/2-A
Matrix: Water
Analysis Batch: 141317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141255

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	250	247		ug/L		99	90 - 110

Lab Sample ID: LCS 180-141255/3-A
Matrix: Water
Analysis Batch: 141317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	200	209		ug/L		104	85 - 115

Lab Sample ID: LLCS 180-141255/1-A
Matrix: Water
Analysis Batch: 141317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141255

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	46.9		ug/L		94	90 - 110

Lab Sample ID: MB 180-141677/4-A
Matrix: Water
Analysis Batch: 141746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		10	2.5	ug/L		05/15/15 08:15	05/15/15 11:28	1

Lab Sample ID: HLCS 180-141677/2-A
Matrix: Water
Analysis Batch: 141746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141677

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	250	255		ug/L		102	90 - 110

Lab Sample ID: LCS 180-141677/3-A
Matrix: Water
Analysis Batch: 141746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	200	210		ug/L		105	85 - 115

Lab Sample ID: LLCS 180-141677/1-A
Matrix: Water
Analysis Batch: 141746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141677

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	48.0		ug/L		96	90 - 110

GC/MS VOA

Analysis Batch: 140962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	8260C	
180-43702-2	FB-01	Total/NA	Water	8260C	
180-43702-3	RB-02	Total/NA	Water	8260C	
LCS 180-140962/17	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 141065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-4	FB-02	Total/NA	Water	8260C	
180-43702-5	TRIP BLANK	Total/NA	Water	8260C	
LCS 180-141065/9	Lab Control Sample	Total/NA	Water	8260C	
MB 180-141065/5	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 140746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	3520C	
180-43702-2	FB-01	Total/NA	Water	3520C	
LCS 180-140746/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 180-140746/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 180-140746/1-A	Method Blank	Total/NA	Water	3520C	

Prep Batch: 140846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-3	RB-02	Total/NA	Water	3520C	
180-43702-4	FB-02	Total/NA	Water	3520C	
LCS 180-140846/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 180-140846/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 180-140846/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 141231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	8270D LL	140746
180-43702-2	FB-01	Total/NA	Water	8270D LL	140746
LCS 180-140746/2-A	Lab Control Sample	Total/NA	Water	8270D LL	140746
LCSD 180-140746/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	140746
MB 180-140746/1-A	Method Blank	Total/NA	Water	8270D LL	140746

Analysis Batch: 141553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-140846/2-A	Lab Control Sample	Total/NA	Water	8270D LL	140846
LCSD 180-140846/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	140846
MB 180-140846/1-A	Method Blank	Total/NA	Water	8270D LL	140846

Analysis Batch: 141716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-3	RB-02	Total/NA	Water	8270D LL	140846
180-43702-4	FB-02	Total/NA	Water	8270D LL	140846

GC Semi VOA

Prep Batch: 140615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	3510C	
180-43702-2	FB-01	Total/NA	Water	3510C	
180-43702-3	RB-02	Total/NA	Water	3510C	
LCS 180-140615/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-140615/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 180-140615/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 140663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	8082A	140615
180-43702-2	FB-01	Total/NA	Water	8082A	140615
180-43702-3	RB-02	Total/NA	Water	8082A	140615
LCS 180-140615/4-A	Lab Control Sample	Total/NA	Water	8082A	140615
LCSD 180-140615/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	140615
MB 180-140615/1-A	Method Blank	Total/NA	Water	8082A	140615

Analysis Batch: 140736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-4	FB-02	Total/NA	Water	8082A	140781
LCS 180-140781/2-A	Lab Control Sample	Total/NA	Water	8082A	140781
LCSD 180-140781/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	140781
MB 180-140781/1-A	Method Blank	Total/NA	Water	8082A	140781

Prep Batch: 140781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-4	FB-02	Total/NA	Water	3510C	
LCS 180-140781/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-140781/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 180-140781/1-A	Method Blank	Total/NA	Water	3510C	

Metals

Prep Batch: 140485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total Recoverable	Water	3005A	
180-43702-2	FB-01	Total Recoverable	Water	3005A	
180-43702-3	RB-02	Total Recoverable	Water	3005A	
180-43702-4	FB-02	Total Recoverable	Water	3005A	
LCS 180-140485/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 180-140485/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 141080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total Recoverable	Water	6020A	140485
180-43702-2	FB-01	Total Recoverable	Water	6020A	140485
180-43702-3	RB-02	Total Recoverable	Water	6020A	140485
180-43702-4	FB-02	Total Recoverable	Water	6020A	140485
CRI 180-141080/51	DL		Water	6020A	
CRI 180-141080/7	DL		Water	6020A	
ICSA 180-141080/8	ICS		Water	6020A	

Metals (Continued)

Analysis Batch: 141080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
ICSAB 180-141080/9	ICS		Water	6020A	
LCS 180-140485/2-A	Lab Control Sample	Total Recoverable	Water	6020A	140485
MB 180-140485/1-A	Method Blank	Total Recoverable	Water	6020A	140485

Analysis Batch: 141088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-2	FB-01	Total Recoverable	Water	6020A	140485
CRI 180-141088/121	DL		Water	6020A	
CRI 180-141088/7	DL		Water	6020A	
ICSA 180-141088/8	ICS		Water	6020A	
ICSAB 180-141088/9	ICS		Water	6020A	
LCS 180-140485/2-A	Lab Control Sample	Total Recoverable	Water	6020A	140485

Prep Batch: 141137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CRA 180-141137/9-A	DL		Water	7470A	

Prep Batch: 141138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	7470A	
180-43702-2	FB-01	Total/NA	Water	7470A	
180-43702-3	RB-02	Total/NA	Water	7470A	
180-43702-4	FB-02	Total/NA	Water	7470A	
LCS 180-141138/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 180-141138/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 141247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	7470A	141138
180-43702-2	FB-01	Total/NA	Water	7470A	141138
CRA 180-141137/9-A	DL		Water	7470A	141137
LCS 180-141138/2-A	Lab Control Sample	Total/NA	Water	7470A	141138
MB 180-141138/1-A	Method Blank	Total/NA	Water	7470A	141138

Analysis Batch: 141284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-3	RB-02	Total/NA	Water	7470A	141138
180-43702-4	FB-02	Total/NA	Water	7470A	141138
CRA 180-141137/9-A	DL		Water	7470A	141137

General Chemistry

Prep Batch: 141255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	9010C	
180-43702-2	FB-01	Total/NA	Water	9010C	
HLCS 180-141255/2-A	Lab Control Sample	Total/NA	Water	9010C	
LCS 180-141255/3-A	Lab Control Sample	Total/NA	Water	9010C	
LLCS 180-141255/1-A	Lab Control Sample	Total/NA	Water	9010C	
MB 180-141255/4-A	Method Blank	Total/NA	Water	9010C	

General Chemistry (Continued)

Analysis Batch: 141317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	9014	141255
180-43702-2	FB-01	Total/NA	Water	9014	141255
HLCS 180-141255/2-A	Lab Control Sample	Total/NA	Water	9014	141255
LCS 180-141255/3-A	Lab Control Sample	Total/NA	Water	9014	141255
LLCS 180-141255/1-A	Lab Control Sample	Total/NA	Water	9014	141255
MB 180-141255/4-A	Method Blank	Total/NA	Water	9014	141255

Prep Batch: 141677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-3	RB-02	Total/NA	Water	9010C	
180-43702-4	FB-02	Total/NA	Water	9010C	
HLCS 180-141677/2-A	Lab Control Sample	Total/NA	Water	9010C	
LCS 180-141677/3-A	Lab Control Sample	Total/NA	Water	9010C	
LLCS 180-141677/1-A	Lab Control Sample	Total/NA	Water	9010C	
MB 180-141677/4-A	Method Blank	Total/NA	Water	9010C	

Analysis Batch: 141746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-3	RB-02	Total/NA	Water	9014	141677
180-43702-4	FB-02	Total/NA	Water	9014	141677
HLCS 180-141677/2-A	Lab Control Sample	Total/NA	Water	9014	141677
LCS 180-141677/3-A	Lab Control Sample	Total/NA	Water	9014	141677
LLCS 180-141677/1-A	Lab Control Sample	Total/NA	Water	9014	141677
MB 180-141677/4-A	Method Blank	Total/NA	Water	9014	141677

Prep Batch: 181813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	1664A	
180-43702-2	FB-01	Total/NA	Water	1664A	
180-43702-3	RB-02	Total/NA	Water	1664A	
180-43702-4	FB-02	Total/NA	Water	1664A	
LCS 240-181813/2-A	Lab Control Sample	Total/NA	Water	1664A	
MB 240-181813/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 181838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43702-1	RB-01	Total/NA	Water	1664A	181813
180-43702-2	FB-01	Total/NA	Water	1664A	181813
180-43702-3	RB-02	Total/NA	Water	1664A	181813
180-43702-4	FB-02	Total/NA	Water	1664A	181813
LCS 240-181813/2-A	Lab Control Sample	Total/NA	Water	1664A	181813
MB 240-181813/1-A	Method Blank	Total/NA	Water	1664A	181813

Client Sample ID: RB-01

Date Collected: 04/30/15 17:30
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	140962	05/08/15 14:51	PJJ	TAL PIT
	Instrument ID: CHHP7									
Total/NA	Prep	3520C			270 mL	0.25 mL	140746	05/06/15 12:13	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	270 mL	0.25 mL	141231	05/12/15 17:10	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3510C			1060 mL	1.0 mL	140615	05/05/15 11:45	CBY	TAL PIT
Total/NA	Analysis	8082A		1	1060 mL	1.0 mL	140663	05/06/15 08:59	JMO	TAL PIT
	Instrument ID: CHGC10									
Total Recoverable	Prep	3005A			50 mL	50 mL	140485	05/04/15 11:22	AB1	TAL PIT
Total Recoverable	Analysis	6020A		1	50 mL	50 mL	141080	05/07/15 19:02	WTR	TAL PIT
	Instrument ID: M									
Total/NA	Prep	7470A			50 mL	50 mL	141138	05/11/15 08:34	MLF	TAL PIT
Total/NA	Analysis	7470A		1	50 mL	50 mL	141247	05/11/15 18:32	MLF	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	1664A		1	826 mL	1000 mL	181838	05/21/15 08:59	NJE	TAL CAN
	Instrument ID: NOEQUIP									
Total/NA	Prep	1664A			826 mL	1000 mL	181813	05/21/15 08:59	NJE	TAL CAN
Total/NA	Prep	9010C			50 mL	50 mL	141255	05/12/15 13:00	PGJ	TAL PIT
Total/NA	Analysis	9014		1	50 mL	50 mL	141317	05/12/15 14:39	PGJ	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: FB-01

Date Collected: 04/30/15 17:45
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	140962	05/08/15 15:18	PJJ	TAL PIT
	Instrument ID: CHHP7									
Total/NA	Prep	3520C			270 mL	0.25 mL	140746	05/06/15 12:13	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	270 mL	0.25 mL	141231	05/12/15 17:37	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3510C			1050 mL	1.0 mL	140615	05/05/15 11:45	CBY	TAL PIT
Total/NA	Analysis	8082A		1	1050 mL	1.0 mL	140663	05/06/15 09:18	JMO	TAL PIT
	Instrument ID: CHGC10									
Total Recoverable	Prep	3005A			50 mL	50 mL	140485	05/04/15 11:22	AB1	TAL PIT
Total Recoverable	Analysis	6020A		1	50 mL	50 mL	141080	05/07/15 19:06	WTR	TAL PIT
	Instrument ID: M									
Total Recoverable	Prep	3005A			50 mL	50 mL	140485	05/04/15 11:22	AB1	TAL PIT
Total Recoverable	Analysis	6020A		1	50 mL	50 mL	141088	05/08/15 22:57	WTR	TAL PIT
	Instrument ID: X									
Total/NA	Prep	7470A			50 mL	50 mL	141138	05/11/15 08:34	MLF	TAL PIT
Total/NA	Analysis	7470A		1	50 mL	50 mL	141247	05/11/15 18:33	MLF	TAL PIT
	Instrument ID: K									

Client Sample ID: FB-01

Lab Sample ID: 180-43702-2

Date Collected: 04/30/15 17:45

Matrix: Water

Date Received: 05/02/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1664A		1	843 mL	1000 mL	181838	05/21/15 08:59	NJE	TAL CAN
	Instrument ID: NOEQUIP									
Total/NA	Prep	1664A			843 mL	1000 mL	181813	05/21/15 08:59	NJE	TAL CAN
Total/NA	Prep	9010C			50 mL	50 mL	141255	05/12/15 13:00	PGJ	TAL PIT
Total/NA	Analysis	9014		1	50 mL	50 mL	141317	05/12/15 14:41	PGJ	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: RB-02

Lab Sample ID: 180-43702-3

Date Collected: 05/01/15 15:00

Matrix: Water

Date Received: 05/02/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	140962	05/08/15 15:54	PJJ	TAL PIT
	Instrument ID: CHHP7									
Total/NA	Prep	3520C			270 mL	0.25 mL	140846	05/07/15 09:34	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	270 mL	0.25 mL	141716	05/15/15 22:22	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3510C			1060 mL	1.0 mL	140615	05/05/15 11:45	CBY	TAL PIT
Total/NA	Analysis	8082A		1	1060 mL	1.0 mL	140663	05/06/15 09:56	JMO	TAL PIT
	Instrument ID: CHGC10									
Total Recoverable	Prep	3005A			50 mL	50 mL	140485	05/04/15 11:22	AB1	TAL PIT
Total Recoverable	Analysis	6020A		1	50 mL	50 mL	141080	05/07/15 19:09	WTR	TAL PIT
	Instrument ID: M									
Total/NA	Prep	7470A			50 mL	50 mL	141138	05/11/15 08:34	MLF	TAL PIT
Total/NA	Analysis	7470A		1	50 mL	50 mL	141284	05/12/15 07:40	MLF	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	1664A		1	868 mL	1000 mL	181838	05/21/15 08:59	NJE	TAL CAN
	Instrument ID: NOEQUIP									
Total/NA	Prep	1664A			868 mL	1000 mL	181813	05/21/15 08:59	NJE	TAL CAN
Total/NA	Prep	9010C			50 mL	50 mL	141677	05/15/15 08:15	PGJ	TAL PIT
Total/NA	Analysis	9014		1	50 mL	50 mL	141746	05/15/15 11:32	PGJ	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: FB-02

Lab Sample ID: 180-43702-4

Date Collected: 05/01/15 15:15

Matrix: Water

Date Received: 05/02/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	141065	05/09/15 14:27	PJJ	TAL PIT
	Instrument ID: CHHP4									
Total/NA	Prep	3520C			260 mL	0.25 mL	140846	05/07/15 09:34	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	260 mL	0.25 mL	141716	05/15/15 22:49	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3510C			1050 mL	1.0 mL	140781	05/06/15 12:40	CBY	TAL PIT

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

Client Sample ID: FB-02

Date Collected: 05/01/15 15:15
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		1	1050 mL	1.0 mL	140736	05/07/15 06:00	JMO	TAL PIT
	Instrument ID: CHGC10									
Total Recoverable	Prep	3005A			50 mL	50 mL	140485	05/04/15 11:22	AB1	TAL PIT
Total Recoverable	Analysis	6020A		1	50 mL	50 mL	141080	05/07/15 19:13	WTR	TAL PIT
	Instrument ID: M									
Total/NA	Prep	7470A			50 mL	50 mL	141138	05/11/15 08:34	MLF	TAL PIT
Total/NA	Analysis	7470A		1	50 mL	50 mL	141284	05/12/15 07:42	MLF	TAL PIT
	Instrument ID: K									
Total/NA	Analysis	1664A		1	874 mL	1000 mL	181838	05/21/15 08:59	NJE	TAL CAN
	Instrument ID: NOEQUIP									
Total/NA	Prep	1664A			874 mL	1000 mL	181813	05/21/15 08:59	NJE	TAL CAN
Total/NA	Prep	9010C			50 mL	50 mL	141677	05/15/15 08:15	PGJ	TAL PIT
Total/NA	Analysis	9014		1	50 mL	50 mL	141746	05/15/15 11:34	PGJ	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK

Date Collected: 04/30/15 17:30
Date Received: 05/02/15 09:00

Lab Sample ID: 180-43702-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	141065	05/09/15 15:21	PJJ	TAL PIT
	Instrument ID: CHHP4									

Laboratory References:

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

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL CAN

Batch Type: Prep

NJE = Nicholas Eikelberry

Batch Type: Analysis

NJE = Nicholas Eikelberry

Lab: TAL PIT

Batch Type: Prep

AB1 = Ashwin Baikadi

BJT = Bill Trout

CBY = Charles Yushinski

MLF = Michele Freeman

PGJ = Paul Johnson

Batch Type: Analysis

JMO = John Oravec

MLF = Michele Freeman

PGJ = Paul Johnson

PJJ = Patrick Journet

VVP = Vincent Piccolino

WTR = Bill Reinheimer

Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	State Program	9	2891	03-31-16
Connecticut	State Program	1	PH-0688	09-30-16
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	05-31-15 *
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-16
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-16
North Carolina (WW/SW)	State Program	4	434	12-31-15
Pennsylvania	NELAP	3	02-00416	04-30-16
South Carolina	State Program	4	89014	04-30-15 *
Texas	NELAP	6	T104704528	03-31-16
US Fish & Wildlife	Federal		LE94312A-1	11-30-15
USDA	Federal		P-Soil-01	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-16
Wisconsin	State Program	5	998027800	08-31-15

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	05-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	TAL PIT
6020A	Metals (ICP/MS)	SW846	TAL PIT
7470A	Mercury (CVAA)	SW846	TAL PIT
1664A	HEM and SGT-HEM	1664A	TAL CAN
9014	Cyanide	SW846	TAL PIT

Protocol References:

1664A = EPA-821-98-002

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

Laboratory References:

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

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Sparrows Point Trust Offshore Investigat

TestAmerica Job ID: 180-43702-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-43702-1	RB-01	Water	04/30/15 17:30	05/02/15 09:00
180-43702-2	FB-01	Water	04/30/15 17:45	05/02/15 09:00
180-43702-3	RB-02	Water	05/01/15 15:00	05/02/15 09:00
180-43702-4	FB-02	Water	05/01/15 15:15	05/02/15 09:00
180-43702-5	TRIP BLANK	Water	04/30/15 17:30	05/02/15 09:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP4 Analysis Batch Number: 123648

Lab Sample ID: IC 180-123648/4 Client Sample ID:

Date Analyzed: 11/03/14 12:22 Lab File ID: 4110304.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	2.37	Poor chromatography	journetp	11/03/14 12:19
Acetone	2.53	Poor chromatography	journetp	11/03/14 15:52
1,4-Dioxane	7.07	Poor chromatography	journetp	11/03/14 12:19

Lab Sample ID: IC 180-123648/5 Client Sample ID:

Date Analyzed: 11/03/14 12:49 Lab File ID: 4110305.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	2.36	Poor chromatography	journetp	11/03/14 15:54
Allyl chloride	2.83	Poor chromatography	journetp	11/03/14 12:19

Lab Sample ID: IC 180-123648/6 Client Sample ID:

Date Analyzed: 11/03/14 13:15 Lab File ID: 4110306.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorofluoromethane	1.96	Poor chromatography	journetp	11/03/14 14:13

Lab Sample ID: IC 180-123648/12 Client Sample ID:

Date Analyzed: 11/03/14 16:24 Lab File ID: 4110312.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	2.37	Poor chromatography	journetp	11/03/14 15:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP4 Analysis Batch Number: 141065

Lab Sample ID: CCV 180-141065/3 Client Sample ID:

Date Analyzed: 05/09/15 12:46 Lab File ID: 4050903.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propionitrile	4.93	Poor chromatography	journetp	05/09/15 12:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 122015

Lab Sample ID: IC 180-122015/3 Client Sample ID:

Date Analyzed: 10/20/14 12:49 Lab File ID: 7102003.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	4.26	Poor chromatography	journetp	10/20/14 16:54
TBA-d9 (IS)	4.58	Poor chromatography	journetp	10/20/14 16:54
Chloroprene	5.50	Poor chromatography	journetp	10/20/14 16:54
Isopropyl ether	5.53	Poor chromatography	journetp	10/20/14 16:54
Tert-butyl ethyl ether	5.97	Poor chromatography	journetp	10/20/14 16:54
Propionitrile	6.23	Poor chromatography	journetp	10/20/14 16:54
Ethyl acetate	6.30	Poor chromatography	journetp	10/20/14 16:54
Tert-amyl methyl ether	7.26	Poor chromatography	journetp	10/20/14 16:54
n-Butanol	7.82	Poor chromatography	journetp	10/20/14 16:54
Methyl methacrylate	8.18	Poor chromatography	journetp	10/20/14 16:54
2-Nitropropane	8.57	Poor chromatography	journetp	10/20/14 16:54
n-Butyl acetate	9.90	Poor chromatography	journetp	10/20/14 16:54
Benzyl chloride	12.96	Poor chromatography	journetp	10/20/14 16:54
1,3,5-Trichlorobenzene	14.20	Poor chromatography	journetp	10/20/14 16:54

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 122015

Lab Sample ID: IC 180-122015/4 Client Sample ID:

Date Analyzed: 10/20/14 13:15 Lab File ID: 7102004.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	4.12	Poor chromatography	journetp	10/20/14 14:00
Acetonitrile	4.20	Poor chromatography	journetp	10/20/14 14:00
TBA-d9 (IS)	4.59	Poor chromatography	journetp	10/20/14 14:00
Chloroprene	5.49	Poor chromatography	journetp	10/20/14 14:00
Tert-butyl ethyl ether	5.97	Poor chromatography	journetp	10/20/14 14:00
Ethyl acetate	6.25	Poor chromatography	journetp	10/20/14 14:00
Propionitrile	6.25	Poor chromatography	journetp	10/20/14 14:00
Methacrylonitrile	6.39	Poor chromatography	journetp	10/20/14 14:00
n-Butanol	7.79	Poor chromatography	journetp	10/20/14 14:00
2-Nitropropane	8.56	Poor chromatography	journetp	10/20/14 14:00
1,3,5-Trichlorobenzene	14.19	Poor chromatography	journetp	10/20/14 14:01

Lab Sample ID: IC 180-122015/5 Client Sample ID:

Date Analyzed: 10/20/14 13:42 Lab File ID: 7102005.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	4.12	Poor chromatography	journetp	10/20/14 14:23
Isopropyl ether	5.52	Poor chromatography	journetp	10/20/14 14:23
Propionitrile	6.23	Poor chromatography	journetp	10/20/14 14:23
n-Butanol	7.79	Poor chromatography	journetp	10/20/14 14:23
Dioxane-d8 (IS)	8.12	Poor chromatography	journetp	10/22/14 13:30
Cyclohexanone	11.57	Poor chromatography	journetp	10/20/14 14:23

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 122015

Lab Sample ID: IC 180-122015/6 Client Sample ID:

Date Analyzed: 10/20/14 14:12 Lab File ID: 7102006.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	4.12	Poor chromatography	journetp	10/20/14 15:15
Acetonitrile	4.23	Poor chromatography	journetp	10/20/14 15:15
TBA-d9 (IS)	4.59	Poor chromatography	journetp	10/20/14 15:15
n-Butanol	7.79	Poor chromatography	journetp	10/20/14 15:15

Lab Sample ID: IC 180-122015/7 Client Sample ID:

Date Analyzed: 10/20/14 14:42 Lab File ID: 7102007.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	4.19	Poor chromatography	journetp	10/20/14 15:17
TBA-d9 (IS)	4.58	Poor chromatography	journetp	10/20/14 15:17

Lab Sample ID: IC 180-122015/8 Client Sample ID:

Date Analyzed: 10/20/14 15:08 Lab File ID: 7102008.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.59	Poor chromatography	journetp	10/20/14 15:44
1,3,5-Trichlorobenzene	14.18	Poor chromatography	journetp	10/20/14 17:16

Lab Sample ID: IC 180-122015/9 Client Sample ID:

Date Analyzed: 10/20/14 15:38 Lab File ID: 7102009.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.70	Poor chromatography	journetp	10/20/14 16:47

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 130597

Lab Sample ID: IC 180-130597/3 Client Sample ID:

Date Analyzed: 01/13/15 10:25 Lab File ID: 7011303.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.98	Poor chromatography	journetp	01/13/15 12:42
Dichlorodifluoromethane	1.98	Poor chromatography	journetp	01/13/15 12:42
Vinyl chloride	2.15	Poor chromatography	journetp	01/13/15 12:42
1,3-Butadiene	2.22	Poor chromatography	journetp	01/13/15 12:42
Bromomethane	2.49	Poor chromatography	journetp	01/13/15 12:42
Trichlorofluoromethane	2.85	Poor chromatography	journetp	01/13/15 12:42
Dichlorofluoromethane	2.88	Poor chromatography	journetp	01/13/15 12:42
Acrolein	3.50	Poor chromatography	journetp	01/13/15 12:42
1,1-Dichloroethene	3.61	Poor chromatography	journetp	01/13/15 12:42
1,1,2-Trichloro-1,2,2-trifluoroethane	3.71	Poor chromatography	journetp	01/13/15 12:42
Iodomethane	3.78	Poor chromatography	journetp	01/13/15 12:42
Acetone	3.81	Poor chromatography	journetp	01/13/15 12:42
Carbon disulfide	3.84	Poor chromatography	journetp	01/13/15 12:42
Allyl chloride	4.21	Poor chromatography	journetp	01/13/15 13:32
Methyl acetate	4.28	Poor chromatography	journetp	01/13/15 12:42
Methylene Chloride	4.40	Poor chromatography	journetp	01/13/15 12:42
TBA-d9 (IS)	4.68	Poor chromatography	journetp	01/13/15 12:42
trans-1,2-Dichloroethene	4.79	Poor chromatography	journetp	01/13/15 12:42
Acrylonitrile	4.80	Poor chromatography	journetp	01/13/15 12:42
tert-Butyl alcohol	4.84	Poor chromatography	journetp	01/13/15 12:42
Methyl tert-butyl ether	4.87	Poor chromatography	journetp	01/13/15 12:42
Vinyl acetate	5.16	Poor chromatography	journetp	01/13/15 12:42
1,1-Dichloroethane	5.36	Poor chromatography	journetp	01/13/15 12:42
2,2-Dichloropropane	6.10	Poor chromatography	journetp	01/13/15 12:42
cis-1,2-Dichloroethene	6.11	Poor chromatography	journetp	01/13/15 12:42
Chlorobromomethane	6.39	Poor chromatography	journetp	01/13/15 12:42
Tetrahydrofuran	6.45	Poor chromatography	journetp	01/13/15 12:42
Chloroform	6.49	Poor chromatography	journetp	01/13/15 12:42
1,1,1-Trichloroethane	6.67	Poor chromatography	journetp	01/13/15 12:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 130597

Lab Sample ID: IC 180-130597/3 Client Sample ID:

Date Analyzed: 01/13/15 10:25 Lab File ID: 7011303.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromofluoromethane (Surr)	6.70	Poor chromatography	journetp	01/13/15 12:42
Isobutyl alcohol	6.74	Poor chromatography	journetp	01/13/15 13:12
Cyclohexane	6.75	Poor chromatography	journetp	01/13/15 12:42
Carbon tetrachloride	6.86	Poor chromatography	journetp	01/13/15 12:42
1,1-Dichloropropene	6.88	Poor chromatography	journetp	01/13/15 12:42
1,2-Dichloroethane-d4 (Surr)	7.04	Poor chromatography	journetp	01/13/15 12:42
1,2-Dichloroethane	7.13	Poor chromatography	journetp	01/13/15 12:42
n-Heptane	7.40	Poor chromatography	journetp	01/13/15 12:42
Trichloroethene	7.80	Poor chromatography	journetp	01/13/15 12:42
Methylcyclohexane	7.99	Poor chromatography	journetp	01/13/15 12:42
1,4-Dioxane	8.14	Poor chromatography	journetp	01/13/15 13:37
Dibromomethane	8.16	Poor chromatography	journetp	01/13/15 12:42
Styrene	11.13	Poor chromatography	journetp	01/13/15 12:42
trans-1,4-Dichloro-2-butene	11.85	Poor chromatography	journetp	01/13/15 12:42
1,2,4-Trichlorobenzene	14.81	Poor chromatography	journetp	01/13/15 13:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 130597

Lab Sample ID: IC 180-130597/4 Client Sample ID:

Date Analyzed: 01/13/15 10:53 Lab File ID: 7011304.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.93	Poor chromatography	journetp	01/13/15 13:09
Chloromethane	1.96	Poor chromatography	journetp	01/13/15 13:09
Vinyl chloride	2.15	Poor chromatography	journetp	01/13/15 13:09
1,3-Butadiene	2.16	Poor chromatography	journetp	01/13/15 13:09
Bromomethane	2.46	Poor chromatography	journetp	01/13/15 13:09
Chloroethane	2.66	Poor chromatography	journetp	01/13/15 13:09
Dichlorofluoromethane	2.88	Poor chromatography	journetp	01/13/15 13:09
Ethyl ether	3.32	Poor chromatography	journetp	01/13/15 13:09
Acrolein	3.50	Poor chromatography	journetp	01/13/15 13:09
1,1-Dichloroethene	3.53	Poor chromatography	journetp	01/13/15 13:09
1,1,2-Trichloro-1,2,2-trifluoroethane	3.66	Poor chromatography	journetp	01/13/15 13:09
Carbon disulfide	3.81	Poor chromatography	journetp	01/13/15 13:09
Acetone	3.82	Poor chromatography	journetp	01/13/15 13:09
Allyl chloride	4.18	Poor chromatography	journetp	01/13/15 13:09
Methyl acetate	4.29	Poor chromatography	journetp	01/13/15 13:09
TBA-d9 (IS)	4.73	Poor chromatography	journetp	01/13/15 13:09
Acrylonitrile	4.82	Poor chromatography	journetp	01/13/15 13:09
tert-Butyl alcohol	4.85	Poor chromatography	journetp	01/13/15 13:09
Hexane	5.18	Poor chromatography	journetp	01/13/15 13:09
1,1-Dichloroethane	5.35	Poor chromatography	journetp	01/13/15 13:09
2,2-Dichloropropane	6.08	Poor chromatography	journetp	01/13/15 13:09
cis-1,2-Dichloroethene	6.10	Poor chromatography	journetp	01/13/15 13:09
Tetrahydrofuran	6.48	Poor chromatography	journetp	01/13/15 13:09
Chloroform	6.50	Poor chromatography	journetp	01/13/15 13:09
1,1,1-Trichloroethane	6.68	Poor chromatography	journetp	01/13/15 13:09
Cyclohexane	6.73	Poor chromatography	journetp	01/13/15 13:09
Carbon tetrachloride	6.86	Poor chromatography	journetp	01/13/15 13:09
1,2-Dichloroethane	7.12	Poor chromatography	journetp	01/13/15 13:11
1,4-Dioxane	8.18	Poor chromatography	journetp	01/13/15 13:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 130597

Lab Sample ID: IC 180-130597/4 Client Sample ID:

Date Analyzed: 01/13/15 10:53 Lab File ID: 7011304.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	14.81	Poor chromatography	journetp	01/13/15 13:38
1,2,3-Trichlorobenzene	15.31	Poor chromatography	journetp	01/13/15 13:46

Lab Sample ID: IC 180-130597/5 Client Sample ID:

Date Analyzed: 01/13/15 11:33 Lab File ID: 7011305.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.90	Poor chromatography	journetp	01/13/15 13:28
Chloromethane	2.02	Poor chromatography	journetp	01/13/15 13:28
1,3-Butadiene	2.18	Poor chromatography	journetp	01/13/15 13:29
Acetone	3.86	Poor chromatography	journetp	01/13/15 13:29
Allyl chloride	4.10	Poor chromatography	journetp	01/13/15 13:31
TBA-d9 (IS)	4.75	Poor chromatography	journetp	02/12/15 09:44
tert-Butyl alcohol	4.85	Poor chromatography	journetp	01/13/15 13:33
cis-1,2-Dichloroethene	6.08	Poor chromatography	journetp	01/13/15 13:34
1,2,4-Trichlorobenzene	14.81	Poor chromatography	journetp	01/13/15 13:39

Lab Sample ID: ICIS 180-130597/6 Client Sample ID:

Date Analyzed: 01/13/15 12:00 Lab File ID: 7011306.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.03	Poor chromatography	journetp	01/13/15 13:29
Acetone	3.77	Poor chromatography	journetp	01/13/15 13:30
Allyl chloride	4.16	Poor chromatography	journetp	01/13/15 13:30
Methylene Chloride	4.38	Poor chromatography	journetp	01/13/15 13:32
1,4-Dioxane	8.18	Poor chromatography	journetp	01/13/15 13:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 130597

Lab Sample ID: IC 180-130597/7 Client Sample ID:

Date Analyzed: 01/13/15 12:26 Lab File ID: 7011307.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.92	Poor chromatography	journetp	01/13/15 13:19
Chloromethane	2.01	Poor chromatography	journetp	01/13/15 13:19
1,1,2-Trichloro-1,2,2-trifluoroethane	3.69	Poor chromatography	journetp	01/13/15 13:19
Acetone	3.78	Poor chromatography	journetp	01/13/15 13:19
Carbon disulfide	3.86	Poor chromatography	journetp	01/13/15 13:19
Allyl chloride	4.18	Poor chromatography	journetp	01/13/15 13:19
TBA-d9 (IS)	4.65	Poor chromatography	journetp	01/13/15 13:19
Acrylonitrile	4.78	Poor chromatography	journetp	01/13/15 13:19

Lab Sample ID: IC 180-130597/8 Client Sample ID:

Date Analyzed: 01/13/15 13:21 Lab File ID: 7011308.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	3.51	Poor chromatography	journetp	01/13/15 14:42
Carbon disulfide	3.85	Poor chromatography	journetp	01/13/15 14:42
Allyl chloride	4.16	Poor chromatography	journetp	01/13/15 14:42
TBA-d9 (IS)	4.70	Poor chromatography	journetp	01/13/15 14:42

Lab Sample ID: IC 180-130597/9 Client Sample ID:

Date Analyzed: 01/13/15 14:16 Lab File ID: 7011309.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	3.51	Poor chromatography	journetp	01/13/15 15:07
Carbon disulfide	3.80	Poor chromatography	journetp	01/13/15 15:07
Allyl chloride	4.12	Poor chromatography	journetp	01/13/15 15:07
TBA-d9 (IS)	4.82	Poor chromatography	journetp	01/13/15 15:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 140962

Lab Sample ID: CCVIS 180-140962/2 Client Sample ID:

Date Analyzed: 05/08/15 08:50 Lab File ID: 7050802.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.95	Poor chromatography	journetp	05/08/15 09:48
Chloromethane	2.06	Poor chromatography	journetp	05/08/15 09:48
1,3-Butadiene	2.20	Poor chromatography	journetp	05/08/15 09:48
Vinyl chloride	2.20	Poor chromatography	journetp	05/08/15 09:48
Bromomethane	2.49	Poor chromatography	journetp	05/08/15 09:48
Chloroethane	2.64	Poor chromatography	journetp	05/08/15 09:48
Trichlorofluoromethane	2.87	Poor chromatography	journetp	05/08/15 09:48
Dichlorofluoromethane	2.89	Poor chromatography	journetp	05/08/15 09:48
Ethyl ether	3.30	Poor chromatography	journetp	05/08/15 09:48
Acrolein	3.53	Poor chromatography	journetp	05/08/15 09:48
1,1-Dichloroethene	3.57	Poor chromatography	journetp	05/08/15 09:48
1,1,2-Trichloro-1,2,2-trifluoroethane	3.71	Poor chromatography	journetp	05/08/15 09:48
Acetone	3.80	Poor chromatography	journetp	05/08/15 09:48
Iodomethane	3.80	Poor chromatography	journetp	05/08/15 09:48
Carbon disulfide	3.83	Poor chromatography	journetp	05/08/15 09:48
Allyl chloride	4.14	Poor chromatography	journetp	05/08/15 09:48
Methyl acetate	4.29	Poor chromatography	journetp	05/08/15 09:48
Methylene Chloride	4.36	Poor chromatography	journetp	05/08/15 09:48
TBA-d9 (IS)	4.71	Poor chromatography	journetp	05/08/15 09:48
trans-1,2-Dichloroethene	4.77	Poor chromatography	journetp	05/08/15 09:48
Acrylonitrile	4.82	Poor chromatography	journetp	05/08/15 09:48
Hexane	5.17	Poor chromatography	journetp	05/08/15 09:48
Vinyl acetate	5.17	Poor chromatography	journetp	05/08/15 09:48
1,1-Dichloroethane	5.36	Poor chromatography	journetp	05/08/15 09:48
1,2-Dichloroethane-d4 (Surr)	7.04	Poor chromatography	journetp	05/08/15 09:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 140962

Lab Sample ID: CCV 180-140962/4 Client Sample ID:

Date Analyzed: 05/08/15 09:52 Lab File ID: 7050804.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trimethylbenzene	12.44	Poor chromatography	journetp	05/08/15 10:29

Lab Sample ID: 180-43702-1 Client Sample ID:

Date Analyzed: 05/08/15 14:51 Lab File ID: 7050812.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.57	Poor chromatography	journetp	05/08/15 15:23

Lab Sample ID: 180-43702-2 Client Sample ID:

Date Analyzed: 05/08/15 15:18 Lab File ID: 7050813.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.56	Poor chromatography	journetp	05/08/15 16:11

Lab Sample ID: 180-43702-3 Client Sample ID:

Date Analyzed: 05/08/15 15:54 Lab File ID: 7050814.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.58	Poor chromatography	journetp	05/08/15 16:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Analysis Batch Number: 140962

Lab Sample ID: LCS 180-140962/17 Client Sample ID:

Date Analyzed: 05/08/15 17:14 Lab File ID: 7050817.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.03	Poor chromatography	journetp	05/08/15 17:48
Vinyl chloride	2.20	Poor chromatography	journetp	05/08/15 17:48
Bromomethane	2.51	Poor chromatography	journetp	05/08/15 17:48
Chloroethane	2.59	Poor chromatography	journetp	05/08/15 17:48
1,1-Dichloroethene	3.53	Poor chromatography	journetp	05/08/15 17:48
Methylene Chloride	4.36	Poor chromatography	journetp	05/08/15 17:48
TBA-d9 (IS)	4.73	Poor chromatography	journetp	05/08/15 17:48
trans-1,2-Dichloroethene	4.77	Poor chromatography	journetp	05/08/15 17:48
Acrylonitrile	4.81	Poor chromatography	journetp	05/08/15 17:48
1,1-Dichloroethane	5.36	Poor chromatography	journetp	05/08/15 17:48
1,2-Dichloropropane	8.02	Poor chromatography	journetp	05/08/15 17:48

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CH732 Analysis Batch Number: 132436

Lab Sample ID: IC 180-132436/3 Client Sample ID:

Date Analyzed: 02/03/15 05:53 Lab File ID: D0203003.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.55	Poor chromatography	piccolinov	02/03/15 08:47
N-Nitrosodimethylamine	2.14	Poor chromatography	piccolinov	02/03/15 08:47
Pyridine	2.24	Poor chromatography	piccolinov	02/03/15 08:47
Benzoic acid	7.15	Poor chromatography	piccolinov	02/03/15 08:47
Indeno[1,2,3-cd]pyrene	19.79	Poor chromatography	piccolinov	02/03/15 08:47
Dibenz(a,h)anthracene	19.85	Poor chromatography	piccolinov	02/03/15 08:47
Benzo[g,h,i]perylene	20.50	Poor chromatography	piccolinov	02/03/15 08:47

Lab Sample ID: IC 180-132436/4 Client Sample ID:

Date Analyzed: 02/03/15 06:20 Lab File ID: D0203004.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	2.22	Poor chromatography	piccolinov	02/03/15 08:48
Benzoic acid	7.16	Poor chromatography	piccolinov	02/03/15 08:48
Indeno[1,2,3-cd]pyrene	19.79	Poor chromatography	piccolinov	02/03/15 08:48
Dibenz(a,h)anthracene	19.84	Poor chromatography	piccolinov	02/03/15 08:48
Benzo[g,h,i]perylene	20.50	Poor chromatography	piccolinov	02/03/15 08:48

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CH732 Analysis Batch Number: 132436

Lab Sample ID: IC 180-132436/5 Client Sample ID:

Date Analyzed: 02/03/15 06:46 Lab File ID: D0203005.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.16	Poor chromatography	piccolino v	02/03/15 08:50
Dibenz(a,h)anthracene	19.84	Poor chromatography	piccolino v	02/03/15 08:50

Lab Sample ID: ICIS 180-132436/6 Client Sample ID:

Date Analyzed: 02/03/15 07:13 Lab File ID: D0203006.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	19.82	Poor chromatography	piccolino v	02/03/15 08:51

Lab Sample ID: IC 180-132436/8 Client Sample ID:

Date Analyzed: 02/03/15 08:07 Lab File ID: D0203008.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	19.82	Poor chromatography	piccolino v	02/03/15 08:58

Lab Sample ID: IC 180-132436/9 Client Sample ID:

Date Analyzed: 02/03/15 08:33 Lab File ID: D0203009.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	19.81	Poor chromatography	piccolino v	02/03/15 08:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CH732 Analysis Batch Number: 141716

Lab Sample ID: 180-43702-3 Client Sample ID: RB-02

Date Analyzed: 05/15/15 22:22 Lab File ID: D0515N25.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	14.37	Poor chromatography	piccolinov	05/18/15 02:38
Indeno[1,2,3-cd]pyrene	19.63	Poor chromatography	piccolinov	05/18/15 02:38
Dibenz(a,h)anthracene	19.67	Poor chromatography	piccolinov	05/18/15 02:38
Benzo[g,h,i]perylene	20.32	Poor chromatography	piccolinov	05/18/15 02:38

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHGC10 Analysis Batch Number: 139955

Lab Sample ID: ICRT 180-139955/8 Client Sample ID:

Date Analyzed: 04/29/15 08:42 Lab File ID: S0429008.D GC Column: RTX-CLP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	6.78	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 2	7.28	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 3	8.54	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 4	9.11	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 5	9.59	Instrument noise	oravecj	04/30/15 05:46

Lab Sample ID: IC 180-139955/9 Client Sample ID:

Date Analyzed: 04/29/15 09:01 Lab File ID: S0429009.D GC Column: RTX-CLP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	6.78	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 2	7.28	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 3	8.54	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 4	9.11	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 5	9.59	Instrument noise	oravecj	04/30/15 05:46

Lab Sample ID: IC 180-139955/9 Client Sample ID:

Date Analyzed: 04/29/15 09:01 Lab File ID: S0429009.D GC Column: RTX-CLP2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	8.65	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 2	9.04	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 3	10.30	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 4	10.69	Instrument noise	oravecj	04/30/15 05:46
PCB-1260 Peak 5	11.23	Instrument noise	oravecj	04/30/15 05:46

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHGC10 Analysis Batch Number: 139955

Lab Sample ID: IC 180-139955/10 Client Sample ID:

Date Analyzed: 04/29/15 09:20 Lab File ID: S0429010.D GC Column: RTX-CLP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	6.78	Instrument noise	oravecj	04/30/15 05:45
PCB-1260 Peak 2	7.28	Instrument noise	oravecj	04/30/15 05:45
PCB-1260 Peak 3	8.54	Instrument noise	oravecj	04/30/15 05:45
PCB-1260 Peak 4	9.12	Instrument noise	oravecj	04/30/15 05:45
PCB-1260 Peak 5	9.60	Instrument noise	oravecj	04/30/15 05:45

Lab Sample ID: IC 180-139955/10 Client Sample ID:

Date Analyzed: 04/29/15 09:20 Lab File ID: S0429010.D GC Column: RTX-CLP2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	8.65	Instrument noise	oravecj	04/30/15 05:45
PCB-1260 Peak 2	9.04	Instrument noise	oravecj	04/30/15 05:45
PCB-1260 Peak 3	10.30	Instrument noise	oravecj	04/30/15 05:45
PCB-1260 Peak 4	10.69	Instrument noise	oravecj	04/30/15 05:45
PCB-1260 Peak 5	11.23	Instrument noise	oravecj	04/30/15 05:45

Lab Sample ID: IC 180-139955/11 Client Sample ID:

Date Analyzed: 04/29/15 09:39 Lab File ID: S0429011.D GC Column: RTX-CLP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	6.79	Instrument noise	oravecj	04/30/15 05:44
PCB-1260 Peak 2	7.29	Instrument noise	oravecj	04/30/15 05:44
PCB-1260 Peak 3	8.54	Instrument noise	oravecj	04/30/15 05:44
PCB-1260 Peak 4	9.12	Instrument noise	oravecj	04/30/15 05:44
PCB-1260 Peak 5	9.60	Instrument noise	oravecj	04/30/15 05:44

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHGC10 Analysis Batch Number: 139955

Lab Sample ID: IC 180-139955/11 Client Sample ID:

Date Analyzed: 04/29/15 09:39 Lab File ID: S0429011.D GC Column: RTX-CLP2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	8.65	Instrument noise	oravecj	04/30/15 05:44
PCB-1260 Peak 2	9.05	Instrument noise	oravecj	04/30/15 05:44
PCB-1260 Peak 3	10.30	Instrument noise	oravecj	04/30/15 05:44
PCB-1260 Peak 4	10.69	Instrument noise	oravecj	04/30/15 05:44
PCB-1260 Peak 5	11.23	Instrument noise	oravecj	04/30/15 05:44

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHGC10 Analysis Batch Number: 140736

Lab Sample ID: IC 180-140736/1 Client Sample ID:

Date Analyzed: 05/06/15 12:11 Lab File ID: S0506101.D GC Column: RTX-CLP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 3	2.72	Instrument noise	oravecj	05/07/15 07:21
PCB-1221 Peak 1	3.31	Instrument noise	oravecj	05/07/15 07:21
PCB-1221 Peak 2	3.48	Instrument noise	oravecj	05/07/15 07:21

Lab Sample ID: IC 180-140736/15 Client Sample ID:

Date Analyzed: 05/06/15 16:34 Lab File ID: S0506115.D GC Column: RTX-CLP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene (Surr)	3.18	Instrument noise	oravecj	05/07/15 07:30
PCB-1016 Peak 1	3.49	Instrument noise	oravecj	05/07/15 07:30
PCB-1016 Peak 2	3.82	Instrument noise	oravecj	05/07/15 07:30
PCB-1016 Peak 3	4.31	Instrument noise	oravecj	05/07/15 07:30
PCB-1016 Peak 4	4.46	Instrument noise	oravecj	05/07/15 07:30
PCB-1016 Peak 5	4.96	Instrument noise	oravecj	05/07/15 07:30
PCB-1260 Peak 1	6.80	Instrument noise	oravecj	05/07/15 07:30
PCB-1260 Peak 2	7.30	Instrument noise	oravecj	05/07/15 07:30
PCB-1260 Peak 3	8.56	Instrument noise	oravecj	05/07/15 07:30
PCB-1260 Peak 4	9.13	Instrument noise	oravecj	05/07/15 07:30
PCB-1260 Peak 5	9.61	Instrument noise	oravecj	05/07/15 07:30

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHGC10 Analysis Batch Number: 140736

Lab Sample ID: ICV 180-140736/20 Client Sample ID:

Date Analyzed: 05/06/15 18:08 Lab File ID: S0506120.D GC Column: RTX-CLP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.49	Instrument noise	oravecj	05/07/15 07:30
PCB-1016 Peak 2	3.82	Instrument noise	oravecj	05/07/15 07:30
PCB-1016 Peak 3	4.31	Instrument noise	oravecj	05/07/15 07:30
PCB-1016 Peak 4	4.46	Instrument noise	oravecj	05/07/15 07:30
PCB-1016 Peak 5	4.95	Instrument noise	oravecj	05/07/15 07:30

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
GCAR 1660ICV_00003	08/30/15	02/09/15	HEXANE, Lot 1448530	100 mL	GCPCBI1660STD_00002	0.05 mL	PCB-1016	0.5 ug/mL
							PCB-1260	0.5 ug/mL
.GCPCBI1660STD_00002	06/30/19		RESTEK, Lot A072217		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
GCAR1248CALL4_00010	08/15/15	02/05/15	Hexane, Lot 1448530	100 mL	GCPCBI1248STD_00003	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
.GCPCBI1248STD_00003	04/30/19		RESTEK, Lot A092864		(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
GCAR1248ICV_00010	08/15/15	02/09/15	HEXANE, Lot 1448530	100 mL	GCPCBI1248STD_00002	0.05 mL	PCB-1248	0.5 ug/mL
.GCPCBI1248STD_00002	06/30/19		RESTEK, Lot A094339		(Purchased Reagent)		PCB-1248	1000 ug/mL
GCAR1660CALL1_00015	08/31/15	02/25/15	HEXANE, Lot 1448530	200 mL	GC1660WORKS_00012	0.02 mL	PCB-1016 Peak 1	0.01 ug/mL
							PCB-1016 Peak 2	0.01 ug/mL
							PCB-1016 Peak 3	0.01 ug/mL
							PCB-1016 Peak 4	0.01 ug/mL
							PCB-1016 Peak 5	0.01 ug/mL
							PCB-1260 Peak 1	0.01 ug/mL
							PCB-1260 Peak 2	0.01 ug/mL
							PCB-1260 Peak 3	0.01 ug/mL
							PCB-1260 Peak 4	0.01 ug/mL
							PCB-1260 Peak 5	0.01 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.0005 ug/mL
							Tetrachloro-m-xylene (Surr)	0.0005 ug/mL
.GC1660WORKS_00012	08/31/15	02/25/15	HEXANE, Lot 1448530	20 mL	GCPCBICAL STD_00001	2 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00005	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBICAL STD_00001	04/30/19		RESTEK, Lot A092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
..GCPEST(SURR)S_00005	03/20/19		RESTEK, Lot a092633		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL2_00010	08/31/15	02/25/15	HEXANE, Lot 1448530	200 mL	GC1660WORKS_00012	0.1 mL	PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL
							PCB-1260 Peak 5	0.05 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.0025 ug/mL
							Tetrachloro-m-xylene (Surr)	0.0025 ug/mL
.GC1660WORKS_00012	08/31/15	02/25/15	HEXANE, Lot 1448530	20 mL	GCPCBICAL STD_00001	2 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00005	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBICAL STD_00001	04/30/19		RESTEK, Lot A092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							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
..GCPEST(SURR)S_00005	03/20/19		RESTEK, Lot a092633		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL3_00009	08/31/15	02/25/15	HEXANE, Lot 1448530	200 mL	GC1660WORKS_00012	0.4 mL	PCB-1016 Peak 1	0.2 ug/mL
							PCB-1016 Peak 2	0.2 ug/mL
							PCB-1016 Peak 3	0.2 ug/mL
							PCB-1016 Peak 4	0.2 ug/mL
							PCB-1016 Peak 5	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 1	0.2 ug/mL
							PCB-1260 Peak 2	0.2 ug/mL
							PCB-1260 Peak 3	0.2 ug/mL
							PCB-1260 Peak 4	0.2 ug/mL
							PCB-1260 Peak 5	0.2 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.01 ug/mL
							Tetrachloro-m-xylene (Surr)	0.01 ug/mL
.GC1660WORKS_00012	08/31/15	02/25/15	HEXANE, Lot 1448530	20 mL	GCPCBICAL STD_00001	2 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00005	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBICAL STD_00001	04/30/19		RESTEK, Lot A092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							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
..GCPEST(SURR)S_00005	03/20/19		RESTEK, Lot a092633		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL4_00009	08/31/15	02/25/15	HEAXANE, Lot 1448530	400 mL	GC1660WORKS_00012	2 mL	PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.025 ug/mL
							Tetrachloro-m-xylene (Surr)	0.025 ug/mL
.GC1660WORKS_00012	08/31/15	02/25/15	HEXANE, Lot 1448530	20 mL	GCPCBICAL STD_00001	2 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00005	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBICAL STD_00001	04/30/19		RESTEK, Lot A092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							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
..GCPEST(SURR)S_00005	03/20/19		RESTEK, Lot a092633		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL4_00009	08/31/15	02/25/15	HEAXANE, Lot 1448530	400 mL	GC1660WORKS_00012	2 mL	PCB-1016	0.5 ug/mL
							PCB-1260	0.5 ug/mL
.GC1660WORKS_00012	08/31/15	02/25/15	HEXANE, Lot 1448530	20 mL	GCPCBICAL STD_00001	2 mL	PCB-1016	100 ug/mL
							PCB-1260	100 ug/mL
..GCPCBICAL STD_00001	04/30/19		RESTEK, Lot A092844		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
GCAR1660CALL5_00010	08/31/15	02/25/15	HEAXNE, Lot 1305300	400 mL	GC1660WORKS_00012	4 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
							DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
							Tetrachloro-m-xylene (Surr)	0.05 ug/mL
.GC1660WORKS_00012	08/31/15	02/25/15	HEXANE, Lot 1448530	20 mL	GCPCBICAL STD_00001	2 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00005	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBICAL STD_00001	04/30/19		RESTEK, Lot A092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							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
..GCPEST(SURR)S_00005	03/20/19		RESTEK, Lot a092633		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL6_00008	08/31/15	02/25/15	Hexane, Lot 1448530	200 mL	GC1660WORKS_00012	4 mL	PCB-1016 Peak 1	2 ug/mL
							PCB-1016 Peak 2	2 ug/mL
							PCB-1016 Peak 3	2 ug/mL
							PCB-1016 Peak 4	2 ug/mL
							PCB-1016 Peak 5	2 ug/mL
							PCB-1260 Peak 1	2 ug/mL
							PCB-1260 Peak 2	2 ug/mL
							PCB-1260 Peak 3	2 ug/mL
							PCB-1260 Peak 4	2 ug/mL
							PCB-1260 Peak 5	2 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.1 ug/mL
							Tetrachloro-m-xylene (Surr)	0.1 ug/mL
.GC1660WORKS_00012	08/31/15	02/25/15	HEXANE, Lot 1448530	20 mL	GCPCBICAL STD_00001	2 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00005	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBICAL STD_00001	04/30/19		RESTEK, Lot A092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..GCPEST(SURR)S_00005	03/20/19		RESTEK, Lot a092633		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL7_00009	08/31/15	02/25/15	HEXANE, Lot 1448530	200 mL	GC1660WORKS_00012	8 mL	PCB-1016 Peak 1	4 ug/mL
							PCB-1016 Peak 2	4 ug/mL
							PCB-1016 Peak 3	4 ug/mL
							PCB-1016 Peak 4	4 ug/mL
							PCB-1016 Peak 5	4 ug/mL
							PCB-1260 Peak 1	4 ug/mL
							PCB-1260 Peak 2	4 ug/mL
							PCB-1260 Peak 3	4 ug/mL
							PCB-1260 Peak 4	4 ug/mL
							PCB-1260 Peak 5	4 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.2 ug/mL
							Tetrachloro-m-xylene (Surr)	0.2 ug/mL
.GC1660WORKS_00012	08/31/15	02/25/15	HEXANE, Lot 1448530	20 mL	GCPCBICAL STD_00001	2 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00005	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBICAL STD_00001	04/30/19		RESTEK, Lot A092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							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
..GCPEST(SURR)S_00005	03/20/19		RESTEK, Lot a092633		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR2154CALL1_00011	08/15/15	02/05/15	Hexane, Lot 1448530	100 mL	GCPCBI1221STD_00002	0.001 mL	PCB-1221 Peak 1	0.01 ug/mL
							PCB-1221 Peak 2	0.01 ug/mL
							PCB-1221 Peak 3	0.01 ug/mL
					GCPCBI1254STD_00003	0.001 mL	PCB-1254 Peak 1	0.01 ug/mL
							PCB-1254 Peak 2	0.01 ug/mL
							PCB-1254 Peak 3	0.01 ug/mL
							PCB-1254 Peak 4	0.01 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 5	0.01 ug/mL
.GCPCBI1221STD_00002	12/30/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
.GCPCBI1254STD_00003	02/28/19		RESTEK, Lot A092005		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
GCAR2154CALL2_00008	08/15/15	02/05/15	Hexane, Lot 1448530	100 mL	GCPCBI1221STD_00002	0.01 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
					GCPCBI1254STD_00003	0.01 mL	PCB-1254 Peak 1	0.1 ug/mL
							PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
.GCPCBI1221STD_00002	12/30/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
.GCPCBI1254STD_00003	02/28/19		RESTEK, Lot A092005		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
GCAR2154CALL3_00008	08/15/15	02/05/15	Hexane, Lot 1448530	100 mL	GCPCBI1221STD_00002	0.025 mL	PCB-1221 Peak 1	0.25 ug/mL
							PCB-1221 Peak 2	0.25 ug/mL
							PCB-1221 Peak 3	0.25 ug/mL
					GCPCBI1254STD_00003	0.025 mL	PCB-1254 Peak 1	0.25 ug/mL
							PCB-1254 Peak 2	0.25 ug/mL
							PCB-1254 Peak 3	0.25 ug/mL
							PCB-1254 Peak 4	0.25 ug/mL
							PCB-1254 Peak 5	0.25 ug/mL
.GCPCBI1221STD_00002	12/30/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
.GCPCBI1254STD_00003	02/28/19		RESTEK, Lot A092005		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
GCAR2154CALL4_00008	08/15/15	02/05/15	Hexane, Lot 1448530	100 mL	GCPCBI1221STD_00002	0.05 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
					GCPCBI1254STD_00003	0.05 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
.GCPCBI1221STD_00002	12/30/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
.GCPCBI1254STD_00003	02/28/19		RESTEK, Lot A092005		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
GCAR2154CALL5_00008	08/15/15	02/05/15	Hexane, Lot 1448530	250 mL	GCPCBI1221STD_00002	0.25 mL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
					GCPCBI1254STD_00003	0.25 mL	PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
.GCPCBI1221STD_00002	12/30/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
.GCPCBI1254STD_00003	02/28/19		RESTEK, Lot A092005		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
GCAR2154ICV_00012	08/15/15	02/09/15	HEXANE, Lot 1448530	100 mL	GCPCBI1221STD_00002	0.05 mL	PCB-1221	0.5 ug/mL
					GCPCBI1254STD_00002	0.05 mL	PCB-1254	0.5 ug/mL
.GCPCBI1221STD_00002	12/30/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221	1000 ug/mL
.GCPCBI1254STD_00002	09/30/19		RESTEK, Lot A095778		(Purchased Reagent)		PCB-1254	1000 ug/mL
GCAR3262CALL4_00001	08/15/15	02/05/15	Hexane, Lot 1448530	250 mL	GCPCBI1232STD_00003	0.125 mL	PCB-1232 Peak 1	0.5 ug/mL
							PCB-1232 Peak 2	0.5 ug/mL
							PCB-1232 Peak 3	0.5 ug/mL
							PCB-1232 Peak 4	0.5 ug/mL
							PCB-1232 Peak 5	0.5 ug/mL
					GCPCBI1262STD_00003	0.125 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
							PCB-1262 Peak 4	0.5 ug/mL
							PCB-1262 Peak 5	0.5 ug/mL
.GCPCBI1232STD_00003	11/30/18		RESTEK, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
.GCPCBI1262STD_00003	08/30/19		RESTEK, Lot A094073		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
GCAR3262ICV_00001	06/30/15	02/09/15	HEAXANE, Lot 1448530	100 mL	GCPCBI1232STD_00002	0.05 mL	PCB-1232	0.5 ug/mL
.GCPCBI1232STD_00002	09/30/19		RESTEK, Lot A095877		(Purchased Reagent)		PCB-1232	1000 ug/mL
GCAR4268CALL4_00001	08/15/15	02/05/15	Hexane, Lot 1448530	100 mL	GCPCBI1242STD_00003	0.05 mL	PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
							PCB-1242 Peak 4	0.5 ug/mL
							PCB-1242 Peak 5	0.5 ug/mL
					GCPCBI1268STD_00003	0.05 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
.GCPCBI1242STD_00003	11/30/18		RESTEK, Lot A090182		(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
.GCPCBI1268STD_00003	01/30/19		RESTEK, Lot A091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
GCAR4268ICV_00001	08/15/15	02/09/15	HEXANE, Lot 1448530	100 mL	GCPCBI1242STD_00002	0.05 mL	PCB-1242	0.5 ug/mL
.GCPCBI1242STD_00002	09/30/19		RESTEK, Lot A095785		(Purchased Reagent)		PCB-1242	1000 ug/mL
GCMATRIXWORKS_00012	08/31/15	02/17/15	ACETONE, Lot 1078945/JT BAKER	250 mL	GCMATRIXSPK_00001	1 mL	PCB-1016	40 ug/mL
							PCB-1260	40 ug/mL
.GCMATRIXSPK_00001	09/30/17		RESTEK, Lot A076606		(Purchased Reagent)		PCB-1016	10000 ug/mL
							PCB-1260	10000 ug/mL
MCCV1X_00075	06/01/15	05/01/15	2% Nitric Acid, Lot 1241747	500 mL	MCALSPECAREV_00006	10 mL	Arsenic	0.1 ppm
							Beryllium	0.1 ppm
							Cadmium	0.1 ppm
							Chromium	0.1 ppm
							Copper	0.1 ppm
							Lead	0.1 ppm
							Nickel	0.1 ppm
							Selenium	0.1 ppm
							Silver	0.1 ppm
							Thallium	0.1 ppm
							Zinc	0.1 ppm
					MCALSPECB_00008	10 mL	Antimony	0.1 ppm
.MCALSPECAREV_00006	06/01/16		Inorganic Ventures, Lot J2-MEB575123		(Purchased Reagent)		Arsenic	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chromium	5 ppm
							Copper	5 ppm
							Lead	5 ppm
							Nickel	5 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Thallium	5 ppm
							Zinc	5 ppm
.MCALSPECB_00008	06/01/16	Inorganic Ventures, Lot J2-MEB575124			(Purchased Reagent)		Antimony	5 ppm
MCRIX_00066	05/29/15	04/29/15	HNO3, Lot 1191081	250 mL	MMSCRI-1B_00005	1 mL	Arsenic	0.001 ppm
							Beryllium	0.001 ppm
							Cadmium	0.001 ppm
							Chromium	0.002 ppm
							Copper	0.002 ppm
							Lead	0.001 ppm
							Nickel	0.001 ppm
							Selenium	0.005 ppm
							Silver	0.001 ppm
							Thallium	0.001 ppm
							Zinc	0.005 ppm
					MMSCRI-2_00007	1 mL	Antimony	0.002 ppm
.MMSCRI-1B_00005	04/01/16	Inorganic Ventures, Lot J2-MEB572092			(Purchased Reagent)		Arsenic	0.25 ppm
							Beryllium	0.25 ppm
							Cadmium	0.25 ppm
							Chromium	0.5 ppm
							Copper	0.5 ppm
							Lead	0.25 ppm
							Nickel	0.25 ppm
							Selenium	1.25 ppm
							Silver	0.25 ppm
							Thallium	0.25 ppm
							Zinc	1.25 ppm
.MMSCRI-2_00007	04/01/16	Inorganic Ventures, Lot J2-MEB572093			(Purchased Reagent)		Antimony	0.5 ppm
MHgworkingCal_01042	05/12/15	05/11/15	2% Nitric Acid, Lot 0000102057	100 mL	MHgIntcal_00120	1 mL	Mercury	100 ppb
.MHgIntcal_00120	05/12/15	05/11/15	2% Nitric Acid, Lot 0000102057	100 mL	MCGHG1-1_00009	1 mL	Mercury	10 ppm
..MCGHG1-1_00009	02/01/16	inorganic ventures, Lot H2-HG02128			(Purchased Reagent)		Mercury	1000 ppm
MHgWorkingicv_01012	05/12/15	05/11/15	2% Nitric Acid, Lot 0000102057	100 mL	MHgIntICV_00100	1 mL	Mercury	100 ppb
.MHgIntICV_00100	05/12/15	05/11/15	2% Nitric Acid, Lot 0000102057	100 mL	MHGICV-1_00005	1 mL	Mercury	10 ppm
..MHGICV-1_00005	07/31/15	ULTRA SCIENTIFIC, Lot T00602			(Purchased Reagent)		Mercury	1000 ppm
MICSABX_00070	06/01/15	05/01/15	2% Nitric Acid, Lot J38N82	100 mL	M6020ICS-0A_00005	10 mL	Al	100 ppm
							Ca	100 ppm
							Fe	100 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							K	100 ppm
							Mg	100 ppm
							Mo	2 ppm
							Na	100 ppm
							Ti	2 ppm
					M6020ICS-0B_00006	1 mL	Arsenic	0.02 ppm
							Cadmium	0.02 ppm
							Chromium	0.02 ppm
							Co	0.02 ppm
							Copper	0.02 ppm
							Mn	0.0225 ppm
							Nickel	0.02 ppm
							Silver	0.02 ppm
							Zinc	0.025 ppm
					MMSICSAB-1_00008	0.2 mL	Ba	0.02 ppm
							Beryllium	0.02 ppm
							Lead	0.02 ppm
							Sr	0.025 ppm
							Thallium	0.02 ppm
							V	0.02 ppm
					MMSICSAB-2_00007	0.2 mL	Antimony	0.02 ppm
							B	0.05 ppm
							Selenium	0.05 ppm
							Si	0.5 ppm
							Sn	0.1 ppm
.M6020ICS-0A_00005	09/01/15	Inorganic Ventures, Lot G2-MEB476152MCA			(Purchased Reagent)		Al	1000 ppm
							Ca	1000 ppm
							Fe	1000 ppm
							K	1000 ppm
							Mg	1000 ppm
							Mo	20 ppm
							Na	1000 ppm
							Ti	20 ppm
.M6020ICS-0B_00006	09/01/15	Inorganic Ventures, Lot G2-MEB463151			(Purchased Reagent)		Arsenic	2 ppm
							Cadmium	2 ppm
							Chromium	2 ppm
							Co	2 ppm
							Copper	2 ppm
							Mn	2.25 ppm
							Nickel	2 ppm
							Silver	2 ppm
							Zinc	2.5 ppm
.MMSICSAB-1_00008	06/01/16	Inorganic Ventures, Lot J2-MEB575125			(Purchased Reagent)		Ba	10 ppm
							Beryllium	10 ppm
							Lead	10 ppm
							Sr	12.5 ppm
							Thallium	10 ppm
							V	10 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MMSICSAB-2_00007	06/01/16	Inorganic Ventures, Lot J2-MEB575126			(Purchased Reagent)		Antimony	10 ppm
							B	25 ppm
							Selenium	25 ppm
							Si	250 ppm
							Sn	50 ppm
MICSAX_00065	05/14/15	04/14/15	DI Water, Lot J38N82	100 mL	M6020ICS-0A_00005	10 mL	Al	100 ppm
							Ca	100 ppm
							Fe	100 ppm
							K	100 ppm
							Mg	100 ppm
							Mo	2 ppm
							Na	100 ppm
							Ti	2 ppm
.M6020ICS-0A_00005	09/01/15	Inorganic Ventures, Lot G2-MEB476152MCA			(Purchased Reagent)		Al	1000 ppm
							Ca	1000 ppm
							Fe	1000 ppm
							K	1000 ppm
							Mg	1000 ppm
							Mo	20 ppm
							Na	1000 ppm
							Ti	20 ppm
MICVX_00031	05/09/15	04/09/15	2% Nitric Acid, Lot 25106	250 mg/L	MICPMSICV_00018	10 mg/L	Antimony	0.08 mg/L
							Arsenic	0.08 mg/L
							Beryllium	0.08 mg/L
							Cadmium	0.08 mg/L
							Chromium	0.08 mg/L
							Copper	0.08 mg/L
							Lead	0.08 mg/L
							Nickel	0.08 mg/L
							Selenium	0.08 mg/L
							Silver	0.08 mg/L
							Thallium	0.08 mg/L
							Zinc	0.08 mg/L
.MICPMSICV_00018	11/30/15	SPEX CertiPrep, Lot 7-230WL			(Purchased Reagent)		Antimony	2 ppm
							Arsenic	2 ppm
							Beryllium	2 ppm
							Cadmium	2 ppm
							Chromium	2 ppm
							Copper	2 ppm
							Lead	2 ppm
							Nickel	2 ppm
							Selenium	2 ppm
							Silver	2 ppm
							Thallium	2 ppm
							Zinc	2 ppm
MSTD2X_00046	06/01/15	05/01/15	DI Water, Lot 1241717	250 mL	MCALSPECAREV_00006	10 mg/L	Arsenic	0.2 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Beryllium	0.2 ppm
							Cadmium	0.2 ppm
							Chromium	0.2 ppm
							Copper	0.2 ppm
							Lead	0.2 ppm
							Nickel	0.2 ppm
							Selenium	0.2 ppm
							Silver	0.2 ppm
							Thallium	0.2 ppm
							Zinc	0.2 ppm
.MCALSPECAREV_00006	06/01/16	Inorganic Ventures, Lot J2-MEB575123			(Purchased Reagent)		Arsenic	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Chromium	5 ppm
							Copper	5 ppm
							Lead	5 ppm
							Nickel	5 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Thallium	5 ppm
							Zinc	5 ppm
MSTD3X_00045	06/01/15	05/01/15	2% Nitric Acid, Lot 1241747	250 mL	MCALSPECB_00008	10 mg/L	Antimony	0.2 ppm
.MCALSPECB_00008	06/01/16	Inorganic Ventures, Lot J2-MEB575124			(Purchased Reagent)		Antimony	5 ppm
MTAPITTICPMS_00020	07/01/15	INORGANIC VENTURES, Lot H2-MEB532047			(Purchased Reagent)		Al	200 ug/mL
							Arsenic	4 ug/mL
							B	100 ug/mL
							Ba	200 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Co	50 ug/mL
							Copper	25 ug/mL
							Fe	100 ug/mL
							Lead	2 ug/mL
							Mn	50 ug/mL
							Nickel	50 ug/mL
							Selenium	1 ug/mL
							Silver	5 ug/mL
							Sr	100 ug/mL
							Thallium	5 ug/mL
							V	50 ug/mL
							Zinc	50 ug/mL
MTAPITTMSA_00023	12/01/15	INORGANIC VENTURES, Lot H2-MEB532044			(Purchased Reagent)		Ca	5000 ug/mL
							K	5000 ug/mL
							Mg	5000 ug/mL
							Na	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MTAPITTMSC_00029	12/01/15	Inorganic Ventures, Lot H2-MEB532046			(Purchased Reagent)		Antimony	50 ug/mL
							Mo	100 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sn	200 ug/mL
							Ti	100 ug/mL
OP/PESTPCBRTS_00002	12/31/16	RESTEK, Lot A0100240			(Purchased Reagent)		DCB Decachlorobiphenyl	0.2 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.2 ug/mL
							Tetrachloro-m-xylene (Surr)	0.2 ug/mL
OPLVISPKMIX1i_00038	10/16/15	04/16/15	Methanol, Lot 0000082533	100 mL	SVLVstd1_00030	20 mL	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(as Azobenzene)	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-Methylphenol	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Azobenzene	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
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							Methyl Phenols,Total	400 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	400 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	200 ug/mL
							Total Cresols	400 ug/mL
					SVLVstd10_00001	10 mL	Benzoic acid	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indene	200 ug/mL
					SVLVstd11_00001	10 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SVLVstd9_00001	10 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
.SVLVstd1_00030	05/31/16		Restek, Lot A0107399		(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(as Azobenzene)	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-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							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
							Methyl Phenols,Total	2000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 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	1000 ug/mL
							Total Cresols	2000 ug/mL
.SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	2000 ug/mL
OPQL8270SURi_00029	11/08/15	04/08/15	Methanol, Lot b#0000049909	500 mL	SVLVSURRSPK_00011	20 mL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.SVLVSURRSPK_00011	05/31/19	Restek, Lot A0103615			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SVTAPSTD0.4i_00007	02/21/15	07/21/14	MeCl2, Lot 1053215	1 mL	SVTAPITINTRNi_00005	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00004	5 uL	Benzo[e]pyrene	0.2 ug/mL
							2-Naphthylamine	0.2 ug/mL
							2,3,5,6-Tetrachlorophenol	0.2 ug/mL
							2,6-Dichlorophenol	0.2 ug/mL
							7,12-Dimethylbenz(a)anthracene	0.2 ug/mL
							Methyl methanesulfonate	0.2 ug/mL
							1,1'-Biphenyl	0.2 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.2 ug/mL
							1,2,4-Trichlorobenzene	0.2 ug/mL
							1,2-Dichlorobenzene	0.2 ug/mL
							1,2-Diphenylhydrazine(as Azobenzene)	0.2 ug/mL
							1,3-Dichlorobenzene	0.2 ug/mL
							1,3-Dinitrobenzene	0.2 ug/mL
							1,4-Dichlorobenzene	0.2 ug/mL
							1,4-Dioxane	0.2 ug/mL
							1-Methylnaphthalene	0.2 ug/mL
							2,2'-oxybis[1-chloropropane]	0.2 ug/mL
							2,3,4,6-Tetrachlorophenol	0.2 ug/mL
							2,4,5-Trichlorophenol	0.2 ug/mL
							2,4,6-Trichlorophenol	0.2 ug/mL
							2,4-Dichlorophenol	0.2 ug/mL
							2,4-Dimethylphenol	0.2 ug/mL
							2,4-Dinitrophenol	0.4 ug/mL
							2,4-Dinitrotoluene	0.2 ug/mL
							2,6-Dinitrotoluene	0.2 ug/mL
							2-Chloronaphthalene	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	0.2 ug/mL
							2-Methylnaphthalene	0.2 ug/mL
							2-Methylphenol	0.2 ug/mL
							2-Nitroaniline	0.2 ug/mL
							2-Nitrophenol	0.2 ug/mL
							3-Nitroaniline	0.2 ug/mL
							4,6-Dinitro-2-methylphenol	0.4 ug/mL
							4-Bromophenyl phenyl ether	0.2 ug/mL
							4-Chloro-3-methylphenol	0.2 ug/mL
							4-Chloroaniline	0.2 ug/mL
							4-Chlorophenyl phenyl ether	0.2 ug/mL
							4-Methylphenol	0.2 ug/mL
							4-Nitroaniline	0.2 ug/mL
							4-Nitrophenol	0.4 ug/mL
							Acenaphthene	0.2 ug/mL
							Acenaphthylene	0.2 ug/mL
							Acetophenone	0.2 ug/mL
							Aniline	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
							Benzyl alcohol	0.2 ug/mL
							Bis(2-chloroethoxy)methane	0.2 ug/mL
							Bis(2-chloroethyl)ether	0.2 ug/mL
							Bis(2-ethylhexyl) phthalate	0.2 ug/mL
							Butyl benzyl phthalate	0.2 ug/mL
							Carbazole	0.2 ug/mL
							Chrysene	0.2 ug/mL
							Di-n-butyl phthalate	0.2 ug/mL
							Di-n-octyl phthalate	0.2 ug/mL
							Dibenz(a,h)anthracene	0.2 ug/mL
							Dibenzofuran	0.2 ug/mL
							Diethyl phthalate	0.2 ug/mL
							Dimethyl phthalate	0.2 ug/mL
							Fluoranthene	0.2 ug/mL
							Fluorene	0.2 ug/mL
							Hexachlorobenzene	0.2 ug/mL
							Hexachlorobutadiene	0.2 ug/mL
							Hexachlorocyclopentadiene	0.2 ug/mL
							Hexachloroethane	0.2 ug/mL
							Hexadecane	0.2 ug/mL
							Indeno[1,2,3-cd]pyrene	0.2 ug/mL
							Isophorone	0.2 ug/mL
							n-Decane	0.2 ug/mL
							N-Nitrosodi-n-propylamine	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	0.2 ug/mL
							n-Octadecane	0.2 ug/mL
							Naphthalene	0.2 ug/mL
							Nitrobenzene	0.2 ug/mL
							Pentachlorophenol	0.4 ug/mL
							Phenanthrene	0.2 ug/mL
							Phenol	0.2 ug/mL
							Pyrene	0.2 ug/mL
							Pyridine	0.2 ug/mL
							3,3'-Dichlorobenzidine	0.2 ug/mL
							Atrazine	0.2 ug/mL
							Benzidine	0.2 ug/mL
							Caprolactam	0.2 ug/mL
							N-Nitrosodiphenylamine	0.2 ug/mL
							Benzaldehyde	0.2 ug/mL
							Benzoic acid	0.2 ug/mL
							Indene	0.2 ug/mL
							2,4,6-Tribromophenol (Surr)	0.2 ug/mL
							2-Fluorobiphenyl	0.2 ug/mL
							2-Fluorophenol (Surr)	0.2 ug/mL
							Nitrobenzene-d5 (Surr)	0.2 ug/mL
							Phenol-d5 (Surr)	0.2 ug/mL
							Terphenyl-d14 (Surr)	0.2 ug/mL
							N-Nitrosopyrrolidine	0.2 ug/mL
.SVTAPITINTRNi_00005	05/07/15	05/07/14	MeCl2, Lot 1000447	25 mL	SVLVIntstd_00007	5000 uL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00007	02/28/18	Restek, Lot A093676			(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
.SVTAPITSTCKi_00004	02/21/15	07/21/14	MeCl2, Lot 1053215	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					SVLVlist12_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
					SVLVstd1_00026	800 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(as Azobenzene)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	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-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-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-Methylphenol	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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	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-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	40 ug/mL
					SVLVstd2_00012	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd5(7)_00001	400 uL	N-Nitrosodiphenylamine	40 ug/mL
					SVLVstd8_00003	400 uL	Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVSURRSPK_00003	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18	Absolute, Lot 100313			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..SVLVlist12_00002	04/30/15	Restek, Lot A0102912			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Methyl methanesulfonate	1000 ug/mL
..SVLVstd1_00026	08/31/15	Restek, Lot A0101615			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine(as Azobenzene)	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-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-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-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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 Pittsburgh Job No.: 180-43702-1

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
							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-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	1000 ug/mL
..SVLVstd2_00012	07/31/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd5(7)_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SVLVstd8_00003	05/31/15		Restek, Lot A0103145		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVSURRSPK_00003	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00088	02/06/15	01/31/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00005	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00004	125 uL	Benzo[e]pyrene	5 ug/mL
							2-Naphthylamine	5 ug/mL
							2,3,5,6-Tetrachlorophenol	5 ug/mL
							2,6-Dichlorophenol	5 ug/mL
							7,12-Dimethylbenz(a)anthracene	5 ug/mL
							Methyl methanesulfonate	5 ug/mL
							1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine(as Azobenzene)	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Methylphenol	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Hexadecane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							n-Decane	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							n-Octadecane	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	5 ug/mL
							3,3'-Dichlorobenzidine	5 ug/mL
							Atrazine	5 ug/mL
							Benzidine	5 ug/mL
							Caprolactam	5 ug/mL
							N-Nitrosodiphenylamine	5 ug/mL
							Benzaldehyde	5 ug/mL
							Benzoic acid	5 ug/mL
							Indene	5 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
							N-Nitrosopyrrolidine	5 ug/mL
.SVTAPITINTRNi_00005	05/07/15	05/07/14	MeCl2, Lot 1000447	25 mL	SVLVIntstd_00007	5000 uL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00007	02/28/18		Restek, Lot A093676		(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
.SVTAPITSTCKi_00004	02/21/15	07/21/14	MeCl2, Lot 1053215	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					SVLVlist12_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
					SVLVstd1_00026	800 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(as Azobenzene)	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-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 Pittsburgh Job No.: 180-43702-1

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-Methylphenol	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-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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	40 ug/mL
					SVLVstd2_00012	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd5(7)_00001	400 uL	N-Nitrosodiphenylamine	40 ug/mL
					SVLVstd8_00003	400 uL	Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVSURRSPK_00003	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..SVLVlist12_00002	04/30/15		Restek, Lot A0102912		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Methyl methanesulfonate	1000 ug/mL
..SVLVstd1_00026	08/31/15		Restek, Lot A0101615		(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(as Azobenzene)	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-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 Pittsburgh Job No.: 180-43702-1

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-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-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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-Octadecane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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	1000 ug/mL
..SVLVstd2_00012	07/31/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd5(7)_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SVLVstd8_00003	05/31/15		Restek, Lot A0103145		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVSURRSPK_00003	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00103	05/17/15	05/10/15	MeCl2, Lot 1417620	1 mL	SVTAPITSTCKi_00008	125 uL	1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine(as Azobenzene)	5 ug/mL
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Nitrophenol	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Anthracene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							3,3'-Dichlorobenzidine	5 ug/mL
							Benzidine	5 ug/mL
							N-Nitrosodiphenylamine	5 ug/mL
							Benzoic acid	5 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SVTAPITSTCKi_00008	05/31/15	05/01/15	MeCl2, Lot 1417620	20 mL	SVLVstd1_00026	800 uL	1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine(as Azobenzene)	40 ug/mL
							2,2'-oxybis[1-chloropropane]	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-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	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-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitrophenol	80 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
							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
							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-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	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
					SVLVstd2_00012	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVstd5(7)_00001	400 uL	N-Nitrosodiphenylamine	40 ug/mL
					SVLVstd8_00003	400 uL	Benzoic acid	40 ug/mL
					SVLVSURRSPK_00003	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SVLVstd1_00026	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine(as Azobenzene)	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	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-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Nitrophenol	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-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitrophenol	2000 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
							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
							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-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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
..SVLVstd2_00012	07/31/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVstd5(7)_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SVLVstd8_00003	05/31/15		Restek, Lot A0103145		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SVLVSURRSPK_00003	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SVTAPSTD2.0i_00005	02/21/15	07/21/14	MeCl2, Lot 1053215	1 mL	SVTAPITINTRNi_00005	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00004	25 uL	Benzo[e]pyrene	1 ug/mL
							2-Naphthylamine	1 ug/mL
							2,3,5,6-Tetrachlorophenol	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							7,12-Dimethylbenz(a)anthracene	1 ug/mL
							Methyl methanesulfonate	1 ug/mL
							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(as Azobenzene)	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-Dinitrotoluene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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-Methylphenol	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
							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
							Hexadecane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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	1 ug/mL
							N-Nitrosodimethylamine	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	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Atrazine	1 ug/mL
							Benzidine	1 ug/mL
							Caprolactam	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
							N-Nitrosopyrrolidine	1 ug/mL
.SVTAPITINTRNi_00005	05/07/15	05/07/14	MeCl2, Lot 1000447	25 mL	SVLVIntstd_00007	5000 uL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00007	02/28/18	Restek, Lot A093676			(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
.SVTAPITSTCKi_00004	02/21/15	07/21/14	MeCl2, Lot 1053215	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					SVLVlist12_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
					SVLVstd1_00026	800 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine(as Azobenzene)	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-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-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-Methylphenol	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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
							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-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	40 ug/mL
					SVLVstd2_00012	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd5(7)_00001	400 uL	N-Nitrosodiphenylamine	40 ug/mL
					SVLVstd8_00003	400 uL	Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVSURRSPK_00003	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18	Absolute, Lot 100313			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..SVLVlist12_00002	04/30/15	Restek, Lot A0102912			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Methyl methanesulfonate	1000 ug/mL
..SVLVstd1_00026	08/31/15	Restek, Lot A0101615			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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(as Azobenzene)	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-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-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-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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 Pittsburgh Job No.: 180-43702-1

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
							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-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	1000 ug/mL
..SVLVstd2_00012	07/31/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd5(7)_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SVLVstd8_00003	05/31/15		Restek, Lot A0103145		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVSURRSPK_00003	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD20i_00005	02/21/15	07/21/14	MeCl2, Lot 1053215	1 mL	SVTAPITINTRNi_00005	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00004	250 uL	Benzo[e]pyrene	10 ug/mL
							2-Naphthylamine	10 ug/mL
							2,3,5,6-Tetrachlorophenol	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							7,12-Dimethylbenz(a)anthracene	10 ug/mL
							Methyl methanesulfonate	10 ug/mL
							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(as Azobenzene)	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
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	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-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-Methylphenol	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							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-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	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Atrazine	10 ug/mL
							Benzidine	10 ug/mL
							Caprolactam	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
							N-Nitrosopyrrolidine	10 ug/mL
.SVTAPITINTRNi_00005	05/07/15	05/07/14	MeCl2, Lot 1000447	25 mL	SVLVIntstd_00007	5000 uL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00007	02/28/18		Restek, Lot A093676		(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
.SVTAPITSTCKi_00004	02/21/15	07/21/14	MeCl2, Lot 1053215	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					SVLVlist12_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
					SVLVstd1_00026	800 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(as Azobenzene)	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-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	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-Methylphenol	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-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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	40 ug/mL
					SVLVstd2_00012	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd5(7)_00001	400 uL	N-Nitrosodiphenylamine	40 ug/mL
					SVLVstd8_00003	400 uL	Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVSURRSPK_00003	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18	Absolute, Lot 100313			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..SVLVlist12_00002	04/30/15	Restek, Lot A0102912			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Methyl methanesulfonate	1000 ug/mL
..SVLVstd1_00026	08/31/15	Restek, Lot A0101615			(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(as Azobenzene)	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-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	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	1000 ug/mL
..SVLVstd2_00012	07/31/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd5(7)_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SVLVstd8_00003	05/31/15		Restek, Lot A0103145		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVSURRSPK_00003	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD4.0i_00006	02/21/15	07/21/14	MeCl2, Lot 1053215	1 mL	SVTAPITINTRNi_00005	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00004	50 uL	Benzo[e]pyrene	2 ug/mL
							2-Naphthylamine	2 ug/mL
							2,3,5,6-Tetrachlorophenol	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							7,12-Dimethylbenz(a)anthracene	2 ug/mL
							Methyl methanesulfonate	2 ug/mL
							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(as Azobenzene)	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
							2,2'-oxybis[1-chloropropane]	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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	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-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-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-Methylphenol	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
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Atrazine	2 ug/mL
							Benzidine	2 ug/mL
							Caprolactam	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
							N-Nitrosopyrrolidine	2 ug/mL
.SVTAPITINTRNi_00005	05/07/15	05/07/14	MeCl2, Lot 1000447	25 mL	SVLVIntstd_00007	5000 uL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00007	02/28/18	Restek, Lot A093676			(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
.SVTAPITSTCKi_00004	02/21/15	07/21/14	MeCl2, Lot 1053215	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					SVLVlist12_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
					SVLVstd1_00026	800 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(as Azobenzene)	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-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-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-Methylphenol	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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	40 ug/mL
					SVLVstd2_00012	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd5(7)_00001	400 uL	N-Nitrosodiphenylamine	40 ug/mL
					SVLVstd8_00003	400 uL	Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVSURRSPK_00003	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..SVLVlist12_00002	04/30/15		Restek, Lot A0102912		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Methyl methanesulfonate	1000 ug/mL
..SVLVstd1_00026	08/31/15		Restek, Lot A0101615		(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(as Azobenzene)	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-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-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-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	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-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	1000 ug/mL
..SVLVstd2_00012	07/31/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd5(7)_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SVLVstd8_00003	05/31/15		Restek, Lot A0103145		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVSURRSPK_00003	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..SVNNITROPYROs_00015	06/05/17	absolute, Lot 060514			(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD40i_00005	02/21/15	07/21/14	MeCl2, Lot 1053215	1 mL	SVTAPITINTRNi_00005	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00004	500 uL	Benzo[e]pyrene	20 ug/mL
							2-Naphthylamine	20 ug/mL
							2,3,5,6-Tetrachlorophenol	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							7,12-Dimethylbenz(a)anthracene	20 ug/mL
							Methyl methanesulfonate	20 ug/mL
							1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine(as Azobenzene)	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Methylphenol	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Atrazine	20 ug/mL
							Benzidine	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
							N-Nitrosopyrrolidine	20 ug/mL
.SVTAPITINTRNi_00005	05/07/15	05/07/14	MeCl2, Lot 1000447	25 mL	SVLVIntstd_00007	5000 uL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00007	02/28/18	Restek, Lot A093676			(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
.SVTAPITSTCKi_00004	02/21/15	07/21/14	MeCl2, Lot 1053215	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					SVLVlist12_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
					SVLVstd1_00026	800 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(as Azobenzene)	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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-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-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-Methylphenol	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	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	40 ug/mL
					SVLVstd2_00012	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd5(7)_00001	400 uL	N-Nitrosodiphenylamine	40 ug/mL
					SVLVstd8_00003	400 uL	Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVSURRSPK_00003	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18	Absolute, Lot 100313			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..SVLVlist12_00002	04/30/15	Restek, Lot A0102912			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Methyl methanesulfonate	1000 ug/mL
..SVLVstd1_00026	08/31/15	Restek, Lot A0101615			(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(as Azobenzene)	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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-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-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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	1000 ug/mL
..SVLVstd2_00012	07/31/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd5(7)_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SVLVstd8_00003	05/31/15		Restek, Lot A0103145		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVSURRSPK_00003	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD60i_00005	02/21/15	07/21/14	MeCl2, Lot 1053215	1 mL	SVTAPITINTRNi_00005	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00004	750 uL	Benzo[e]pyrene	30 ug/mL
							2-Naphthylamine	30 ug/mL
							2,3,5,6-Tetrachlorophenol	30 ug/mL
							2,6-Dichlorophenol	30 ug/mL
							7,12-Dimethylbenz(a)anthracene	30 ug/mL
							Methyl methanesulfonate	30 ug/mL
							1,1'-Biphenyl	30 ug/mL
							1,2,4,5-Tetrachlorobenzene	30 ug/mL
							1,2,4-Trichlorobenzene	30 ug/mL
							1,2-Dichlorobenzene	30 ug/mL
							1,2-Diphenylhydrazine(as Azobenzene)	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	30 ug/mL
							1,3-Dinitrobenzene	30 ug/mL
							1,4-Dichlorobenzene	30 ug/mL
							1,4-Dioxane	30 ug/mL
							1-Methylnaphthalene	30 ug/mL
							2,2'-oxybis[1-chloropropane]	30 ug/mL
							2,3,4,6-Tetrachlorophenol	30 ug/mL
							2,4,5-Trichlorophenol	30 ug/mL
							2,4,6-Trichlorophenol	30 ug/mL
							2,4-Dichlorophenol	30 ug/mL
							2,4-Dimethylphenol	30 ug/mL
							2,4-Dinitrophenol	60 ug/mL
							2,4-Dinitrotoluene	30 ug/mL
							2,6-Dinitrotoluene	30 ug/mL
							2-Chloronaphthalene	30 ug/mL
							2-Chlorophenol	30 ug/mL
							2-Methylnaphthalene	30 ug/mL
							2-Methylphenol	30 ug/mL
							2-Nitroaniline	30 ug/mL
							2-Nitrophenol	30 ug/mL
							3-Nitroaniline	30 ug/mL
							4,6-Dinitro-2-methylphenol	60 ug/mL
							4-Bromophenyl phenyl ether	30 ug/mL
							4-Chloro-3-methylphenol	30 ug/mL
							4-Chloroaniline	30 ug/mL
							4-Chlorophenyl phenyl ether	30 ug/mL
							4-Methylphenol	30 ug/mL
							4-Nitroaniline	30 ug/mL
							4-Nitrophenol	60 ug/mL
							Acenaphthene	30 ug/mL
							Acenaphthylene	30 ug/mL
							Acetophenone	30 ug/mL
							Aniline	30 ug/mL
							Anthracene	30 ug/mL
							Benzo[a]anthracene	30 ug/mL
							Benzo[a]pyrene	30 ug/mL
							Benzo[b]fluoranthene	30 ug/mL
							Benzo[g,h,i]perylene	30 ug/mL
							Benzo[k]fluoranthene	30 ug/mL
							Benzyl alcohol	30 ug/mL
							Bis(2-chloroethoxy)methane	30 ug/mL
							Bis(2-chloroethyl)ether	30 ug/mL
							Bis(2-ethylhexyl) phthalate	30 ug/mL
							Butyl benzyl phthalate	30 ug/mL
							Carbazole	30 ug/mL
							Chrysene	30 ug/mL
							Di-n-butyl phthalate	30 ug/mL
							Di-n-octyl phthalate	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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	30 ug/mL
							Dibenzofuran	30 ug/mL
							Diethyl phthalate	30 ug/mL
							Dimethyl phthalate	30 ug/mL
							Fluoranthene	30 ug/mL
							Fluorene	30 ug/mL
							Hexachlorobenzene	30 ug/mL
							Hexachlorobutadiene	30 ug/mL
							Hexachlorocyclopentadiene	30 ug/mL
							Hexachloroethane	30 ug/mL
							Hexadecane	30 ug/mL
							Indeno[1,2,3-cd]pyrene	30 ug/mL
							Isophorone	30 ug/mL
							n-Decane	30 ug/mL
							N-Nitrosodi-n-propylamine	30 ug/mL
							N-Nitrosodimethylamine	30 ug/mL
							n-Octadecane	30 ug/mL
							Naphthalene	30 ug/mL
							Nitrobenzene	30 ug/mL
							Pentachlorophenol	60 ug/mL
							Phenanthrene	30 ug/mL
							Phenol	30 ug/mL
							Pyrene	30 ug/mL
							Pyridine	30 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Atrazine	30 ug/mL
							Benzidine	30 ug/mL
							Caprolactam	30 ug/mL
							N-Nitrosodiphenylamine	30 ug/mL
							Benzaldehyde	30 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							2,4,6-Tribromophenol (Surr)	30 ug/mL
							2-Fluorobiphenyl	30 ug/mL
							2-Fluorophenol (Surr)	30 ug/mL
							Nitrobenzene-d5 (Surr)	30 ug/mL
							Phenol-d5 (Surr)	30 ug/mL
							Terphenyl-d14 (Surr)	30 ug/mL
							N-Nitrosopyrrolidine	30 ug/mL
.SVTAPITINTRNi_00005	05/07/15	05/07/14	MeCl2, Lot 1000447	25 mL	SVLVIntstd_00007	5000 uL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00007	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00004	02/21/15	07/21/14	MeCl2, Lot 1053215	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					SVLVlist12_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
					SVLVstd1_00026	800 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(as Azobenzene)	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-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-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-Methylphenol	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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	40 ug/mL
					SVLVstd2_00012	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd5(7)_00001	400 uL	N-Nitrosodiphenylamine	40 ug/mL
					SVLVstd8_00003	400 uL	Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVSURRSPK_00003	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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 (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18	Absolute, Lot 100313			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..SVLVlist12_00002	04/30/15	Restek, Lot A0102912			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Methyl methanesulfonate	1000 ug/mL
..SVLVstd1_00026	08/31/15	Restek, Lot A0101615			(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(as Azobenzene)	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-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-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-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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-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	1000 ug/mL
..SVLVstd2_00012	07/31/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd5(7)_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SVLVstd8_00003	05/31/15		Restek, Lot A0103145		(Purchased Reagent)		Benzaldehyde	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVSURRSPK_00003	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD80i_00005	02/21/15	07/21/14	MeCl2, Lot 1053215	1 mL	SVTAPITINTRNi_00005	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00004	1000 uL	Benzo[e]pyrene	40 ug/mL
							2-Naphthylamine	40 ug/mL
							2,3,5,6-Tetrachlorophenol	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
							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(as Azobenzene)	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-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-Nitroaniline	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Methylphenol	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-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
							N-Nitrosopyrrolidine	40 ug/mL
.SVTAPITINTRNi_00005	05/07/15	05/07/14	MeCl2, Lot 1000447	25 mL	SVLVIntstd_00007	5000 uL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00007	02/28/18	Restek, Lot A093676			(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
.SVTAPITSTCKi_00004	02/21/15	07/21/14	MeCl2, Lot 1053215	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					SVLVlist12_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
					SVLVstd1_00026	800 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(as Azobenzene)	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

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	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-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-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-Methylphenol	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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	40 ug/mL
					SVLVstd2_00012	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd5(7)_00001	400 uL	N-Nitrosodiphenylamine	40 ug/mL
					SVLVstd8_00003	400 uL	Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVSURRSPK_00003	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18	Absolute, Lot 100313			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..SVLVlist12_00002	04/30/15	Restek, Lot A0102912			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Methyl methanesulfonate	1000 ug/mL
..SVLVstd1_00026	08/31/15	Restek, Lot A0101615			(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(as Azobenzene)	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	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-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-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-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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	1000 ug/mL
..SVLVstd2_00012	07/31/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd5(7)_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SVLVstd8_00003	05/31/15		Restek, Lot A0103145		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVSURRSPK_00003	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
VOA2CEVEPRI_00008	10/23/14	10/16/14	Methanol, Lot 34562	10 mL	VOACEVERES_00050	0.25 mL	2-Chloroethyl vinyl ether	50 ug/mL
.VOACEVERES_00050	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
VOA8260INT_00021	10/26/14	09/26/14	Methanol, Lot 34562	10 mL	VOA8260INTRES_00086	1 mL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Dioxane-d8 (IS)	500 ug/mL
							Fluorobenzene (IS)	25 ug/mL
							TBA-d9 (IS)	500 ug/mL
.VOA8260INTRES_00086	02/28/18		Restek, Lot A093504		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Dioxane-d8 (IS)	5000 ug/mL
							Fluorobenzene (IS)	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							TBA-d9 (IS)	5000 ug/mL
VOA8260INT_00022	11/13/14	10/13/14	Methanol, Lot 62345	10 mL	VOA8260INTRES_00092	1 mL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene (IS)	25 ug/mL
							TBA-d9 (IS)	500 ug/mL
.VOA8260INTRES_00092	07/31/19		Restek, Lot A0104742		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
VOA8260INT_00027	01/30/15	12/30/14	Methanol, Lot 85233	10 mL	VOA8260INTRES_00051	1 mL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene (IS)	25 ug/mL
							TBA-d9 (IS)	500 ug/mL
.VOA8260INTRES_00051	02/01/18		Restek, Lot A093504		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
VOA8260SURR_00017	06/27/15	06/27/14	Methanol, Lot 62345	100 mL	VOA8260SURRES_00046	1 mL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.VOA8260SURRES_00046	02/01/18		Restek, Lot A093505		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260SURR_00035	06/01/15	05/01/15	Methanol, Lot 85233	100 mL	VOA8260SURRES_00089	1 mL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.VOA8260SURRES_00089	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260VOA2ND_00114	05/08/15	05/01/15	Methanol, Lot 85233	10 mL	VOA8260GAS2ND_00096	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOA2ND_00112	1.25 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromoform	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chlorodibromomethane	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dichlorobromomethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methylene Chloride	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS2ND_00096	01/31/18		Restek, Lot A0108226		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOA2ND_00112	05/17/15	04/17/15	Methanol, Lot 85233	10 mL	VOA8260MEGA2_00034	1 mL	1,1,1-Trichloroethane	200 ug/mL
							1,1,2,2-Tetrachloroethane	200 ug/mL
							1,1,2-Trichloroethane	200 ug/mL
							1,1-Dichloroethane	200 ug/mL
							1,1-Dichloroethene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Dichloroethane	200 ug/mL
							1,2-Dichloropropane	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							Acrylonitrile	2000 ug/mL
							Benzene	200 ug/mL
							Bromoform	200 ug/mL
							Carbon tetrachloride	200 ug/mL
							Chlorobenzene	200 ug/mL
							Chlorodibromomethane	200 ug/mL
							Chloroform	200 ug/mL
							cis-1,3-Dichloropropene	200 ug/mL
							Dichlorobromomethane	200 ug/mL
							Ethylbenzene	200 ug/mL
							Methylene Chloride	200 ug/mL
							Tetrachloroethene	200 ug/mL
							Toluene	200 ug/mL
							trans-1,2-Dichloroethene	200 ug/mL
							trans-1,3-Dichloropropene	200 ug/mL
							Trichloroethene	200 ug/mL
..VOA8260MEGA2_00034	02/01/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
VOA8260VOA2ND_00115	05/16/15	05/09/15	Methanol, Lot 85233	10 mL	VOA8260GAS2ND_00095	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOA2ND_00112	1.25 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromoform	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chlorodibromomethane	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methylene Chloride	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS2ND_00095	01/31/18		Restek, Lot A0108226		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOA2ND_00112	05/17/15	04/17/15	Methanol, Lot 85233	10 mL	VOA8260MEGA2_00034	1 mL	1,1,1-Trichloroethane	200 ug/mL
							1,1,2,2-Tetrachloroethane	200 ug/mL
							1,1,2-Trichloroethane	200 ug/mL
							1,1-Dichloroethane	200 ug/mL
							1,1-Dichloroethene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Dichloroethane	200 ug/mL
							1,2-Dichloropropane	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							Acrylonitrile	2000 ug/mL
							Benzene	200 ug/mL
							Bromoform	200 ug/mL
							Carbon tetrachloride	200 ug/mL
							Chlorobenzene	200 ug/mL
							Chlorodibromomethane	200 ug/mL
							Chloroform	200 ug/mL
							cis-1,3-Dichloropropene	200 ug/mL
							Dichlorobromomethane	200 ug/mL
							Ethylbenzene	200 ug/mL
							Methylene Chloride	200 ug/mL
							Tetrachloroethene	200 ug/mL
							Toluene	200 ug/mL
							trans-1,2-Dichloroethene	200 ug/mL
							trans-1,3-Dichloropropene	200 ug/mL
							Trichloroethene	200 ug/mL
..VOA8260MEGA2_00034	02/01/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
VOA8260VOAPRI_00095	01/20/15	01/13/15	Methanol, Lot 85233	8 mL	VOA8260GAS1ST_00083	0.1 mL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00094	1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							4-Isopropyltoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chlorobromomethane	25 ug/mL
							Chlorodibromomethane	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromomethane	25 ug/mL
							Dichlorobromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Ethylene Dibromide	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	25 ug/mL
							Methyl acetate	125 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							trans-1,4-Dichloro-2-butene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00083	09/30/16		Restek, Lot A0105755		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.VOA8260VOAPRI_00094	01/31/15	12/31/14	Methanol, Lot 85233	10 mL	VOA8260KET1ST_00030	0.2 mL	2-Butanone (MEK)	200 ug/mL
							2-Hexanone	200 ug/mL
							4-Methyl-2-pentanone (MIBK)	200 ug/mL
							Acetone	200 ug/mL
					VOA8260MEGA1_00025	1 mL	1,1,1,2-Tetrachloroethane	200 ug/mL
							1,1,1-Trichloroethane	200 ug/mL
							1,1,2,2-Tetrachloroethane	200 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ug/mL
							1,1,2-Trichloroethane	200 ug/mL
							1,1-Dichloroethane	200 ug/mL
							1,1-Dichloroethene	200 ug/mL
							1,1-Dichloropropene	200 ug/mL
							1,2,3-Trichlorobenzene	200 ug/mL
							1,2,3-Trichloropropane	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2,4-Trimethylbenzene	200 ug/mL
							1,2-Dibromo-3-Chloropropane	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Dichloroethane	200 ug/mL
							1,2-Dichloropropane	200 ug/mL
							1,3,5-Trimethylbenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dichloropropane	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	4000 ug/mL
							2,2-Dichloropropane	200 ug/mL
							2-Chlorotoluene	200 ug/mL
							2-Methyl-2-propanol	2000 ug/mL
							3-Chloro-1-propene	200 ug/mL
							4-Chlorotoluene	200 ug/mL
							4-Isopropyltoluene	200 ug/mL
							Acrylonitrile	2000 ug/mL
							Benzene	200 ug/mL
							Bromobenzene	200 ug/mL
							Bromoform	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	200 ug/mL
							Carbon tetrachloride	200 ug/mL
							Chlorobenzene	200 ug/mL
							Chlorobromomethane	200 ug/mL
							Chlorodibromomethane	200 ug/mL
							Chloroform	200 ug/mL
							cis-1,2-Dichloroethene	200 ug/mL
							cis-1,3-Dichloropropene	200 ug/mL
							Cyclohexane	200 ug/mL
							Dibromomethane	200 ug/mL
							Dichlorobromomethane	200 ug/mL
							Ethyl ether	200 ug/mL
							Ethyl methacrylate	200 ug/mL
							Ethylbenzene	200 ug/mL
							Ethylene Dibromide	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexane	200 ug/mL
							Iodomethane	200 ug/mL
							Isobutyl alcohol	5000 ug/mL
							Isopropylbenzene	200 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tert-butyl ether	200 ug/mL
							Methylcyclohexane	200 ug/mL
							Methylene Chloride	200 ug/mL
							n-Butylbenzene	200 ug/mL
							n-Heptane	200 ug/mL
							N-Propylbenzene	200 ug/mL
							Naphthalene	200 ug/mL
							o-Xylene	200 ug/mL
							sec-Butylbenzene	200 ug/mL
							Styrene	200 ug/mL
							tert-Butylbenzene	200 ug/mL
							Tetrachloroethene	200 ug/mL
							Tetrahydrofuran	400 ug/mL
							Toluene	200 ug/mL
							trans-1,2-Dichloroethene	200 ug/mL
							trans-1,3-Dichloropropene	200 ug/mL
							trans-1,4-Dichloro-2-butene	200 ug/mL
							Trichloroethene	200 ug/mL
..VOA8260KET1ST_00030	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VOA8260MEGA1_00025	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
VOA8260VOAPRI_00114	05/08/15	05/01/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00096	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00111	1.25 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromoform	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chlorodibromomethane	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dichlorobromomethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methylene Chloride	25 ug/mL
							Tetrachloroethene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00096	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00111	05/17/15	04/17/15	Methanol, Lot 85233	10 mL	VOA8260MEGA1_00031	1 mL	1,1,1-Trichloroethane	200 ug/mL
							1,1,2,2-Tetrachloroethane	200 ug/mL
							1,1,2-Trichloroethane	200 ug/mL
							1,1-Dichloroethane	200 ug/mL
							1,1-Dichloroethene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Dichloroethane	200 ug/mL
							1,2-Dichloropropane	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							Acrylonitrile	2000 ug/mL
							Benzene	200 ug/mL
							Bromoform	200 ug/mL
							Carbon tetrachloride	200 ug/mL
							Chlorobenzene	200 ug/mL
							Chlorodibromomethane	200 ug/mL
							Chloroform	200 ug/mL
							cis-1,3-Dichloropropene	200 ug/mL
							Dichlorobromomethane	200 ug/mL
							Ethylbenzene	200 ug/mL
							Methylene Chloride	200 ug/mL
							Tetrachloroethene	200 ug/mL
							Toluene	200 ug/mL
							trans-1,2-Dichloroethene	200 ug/mL
							trans-1,3-Dichloropropene	200 ug/mL
							Trichloroethene	200 ug/mL
..VOA8260MEGA1_00031	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
VOA8260VOAPRI_00115	05/16/15	05/09/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00098	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00111	1.25 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromoform	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chlorodibromomethane	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dichlorobromomethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methylene Chloride	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00098	04/30/18		Restek, Lot A011070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00111	05/17/15	04/17/15	Methanol, Lot 85233	10 mL	VOA8260MEGA1_00031	1 mL	1,1,1-Trichloroethane	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	200 ug/mL
							1,1,2-Trichloroethane	200 ug/mL
							1,1-Dichloroethane	200 ug/mL
							1,1-Dichloroethene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Dichloroethane	200 ug/mL
							1,2-Dichloropropane	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							Acrylonitrile	2000 ug/mL
							Benzene	200 ug/mL
							Bromoform	200 ug/mL
							Carbon tetrachloride	200 ug/mL
							Chlorobenzene	200 ug/mL
							Chlorodibromomethane	200 ug/mL
							Chloroform	200 ug/mL
							cis-1,3-Dichloropropene	200 ug/mL
							Dichlorobromomethane	200 ug/mL
							Ethylbenzene	200 ug/mL
							Methylene Chloride	200 ug/mL
							Tetrachloroethene	200 ug/mL
							Toluene	200 ug/mL
							trans-1,2-Dichloroethene	200 ug/mL
							trans-1,3-Dichloropropene	200 ug/mL
							Trichloroethene	200 ug/mL
..VOA8260MEGA1_00031	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
VOAACROPRI_00002	11/03/14	10/03/14	Methanol, Lot 34562	50 mL	VOAACRORES_00054	0.0625 mL	Acrolein	25 ug/mL
.VOAACRORES_00054	11/30/14		Restek, Lot A0104886		(Purchased Reagent)		Acrolein	20000 ug/mL
VOAACROPRI_00005	05/31/15	05/01/15	Methanol, Lot 85233	100 mL	VOAACRORES_00067	0.125 mL	Acrolein	25 ug/mL
.VOAACRORES_00067	05/31/15		Restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000 ug/mL
VOACEVEPRI_00006	05/12/15	05/05/15	Methanol, Lot 85233	10 mL	VOACEVERES_00068	0.2 mL	2-Chloroethyl vinyl ether	50 ug/mL
.VOACEVERES_00068	03/31/18		Restek, Lot A0109994		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
voaW2-cle PRi_00002	11/08/14	11/01/14	Methanol, Lot 62345	10 mL	VOACEVERES_00046	0.25 mL	2-Chloroethyl vinyl ether	50 ug/mL
.VOACEVERES_00046	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
voaWacro2 Res_00003	06/01/15	05/01/15	Methanol, Lot 85233	50 mL	VOAACRRES2ND_00058	0.0625 mL	Acrolein	25 ug/mL
.VOAACRRES2ND_00058	07/31/15		Restek, Lot A0109953		(Purchased Reagent)		Acrolein	20000 ug/mL
voaWAcropri R_00006	02/02/15	01/02/15	Methanol, Lot 85233	50 mL	VOAACRORES_00062	0.0625 mL	Acrolein	25 ug/mL
.VOAACRORES_00062	02/28/15		Restek, Lot A0106504		(Purchased Reagent)		Acrolein	20000 ug/mL
voaWap9 Pr Re_00001	10/21/14	09/21/14	Methanol, Lot 62345	10 mL	VOACYCLORES_00019	0.25 mL	Cyclohexanone	500 ug/mL
					VOALIST2STD1P_00020	0.125 mL	1,2,3-Trimethylbenzene	25 ug/mL
							1,3,5-Trichlorobenzene	25 ug/mL
							2-Chloro-1,3-butadiene	25 ug/mL
							2-Nitropropane	50 ug/mL
							Benzyl chloride	25 ug/mL
							Ethyl acetate	50 ug/mL
							Ethyl acrylate	25 ug/mL
							Isooctane	25 ug/mL
							Isopropyl alcohol	250 ug/mL
							Methacrylonitrile	250 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butanol	625 ug/mL
							n-Butyl acetate	25 ug/mL
					VOALIST3STD1P_00009	0.125 mL	Acetonitrile	250 ug/mL
							Ethanol	1250 ug/mL
							Isopropyl ether	25 ug/mL
							Propionitrile	250 ug/mL
							Tert-amyl methyl ether	25 ug/mL
							Tert-butyl ethyl ether	25 ug/mL
.VOACYCLORES_00019	02/01/16		Restek, Lot A093361		(Purchased Reagent)		Cyclohexanone	20000 ug/mL
.VOALIST2STD1P_00020	06/30/15		Restek, Lot A0100262		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Benzyl chloride	2000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isooctane	2000 ug/mL
							Isopropyl alcohol	20000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
							n-Butyl acetate	2000 ug/mL
.VOALIST3STD1P_00009	12/31/15		Restek, Lot A099930		(Purchased Reagent)		Acetonitrile	20000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
							Tert-butyl ethyl ether	2000 ug/mL
voaWVA pri Re_00004	11/30/14	10/30/14	Methanol, Lot 62345	20 mL	VOA8260VARES_00042	0.125 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00042	02/28/15		Restek, Lot A0105145		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
voaWVApri Res_00001	02/06/15	01/06/15	Methanol, Lot 85233	20 mL	VOA8260VARES_00049	0.125 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00049	04/30/15		Restek, Lot A0106957		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
voaWVOA Pri R_00001	11/08/14	11/01/14	Methanol, Lot 85233	8 mL	VOA8260GAS1ST_00070	0.1 mL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00083	1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							4-Isopropyltoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chlorobromomethane	25 ug/mL
							Chlorodibromomethane	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromomethane	25 ug/mL
							Dichlorobromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Ethylene Dibromide	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	25 ug/mL
							Methyl acetate	125 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Tetrahydrofuran	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							trans-1,4-Dichloro-2-butene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00070	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.VOA8260VOAPRI_00083	11/13/14	10/13/14	Methanol, Lot 62345	10 mL	VOA8260KET1ST_00026	0.2 mL	2-Butanone (MEK)	200 ug/mL
							2-Hexanone	200 ug/mL
							4-Methyl-2-pentanone (MIBK)	200 ug/mL
							Acetone	200 ug/mL
					VOA8260MEGA1_00021	1 mL	1,1,1,2-Tetrachloroethane	200 ug/mL
							1,1,1-Trichloroethane	200 ug/mL
							1,1,2,2-Tetrachloroethane	200 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ug/mL
							1,1,2-Trichloroethane	200 ug/mL
							1,1-Dichloroethane	200 ug/mL
							1,1-Dichloroethene	200 ug/mL
							1,1-Dichloropropene	200 ug/mL
							1,2,3-Trichlorobenzene	200 ug/mL
							1,2,3-Trichloropropane	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2,4-Trimethylbenzene	200 ug/mL
							1,2-Dibromo-3-Chloropropane	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Dichloroethane	200 ug/mL
							1,2-Dichloropropane	200 ug/mL
							1,3,5-Trimethylbenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dichloropropane	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	4000 ug/mL
							2,2-Dichloropropane	200 ug/mL
							2-Chlorotoluene	200 ug/mL
							2-Methyl-2-propanol	2000 ug/mL
							3-Chloro-1-propene	200 ug/mL
							4-Chlorotoluene	200 ug/mL
							4-Isopropyltoluene	200 ug/mL
							Acrylonitrile	2000 ug/mL
							Benzene	200 ug/mL
							Bromobenzene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	200 ug/mL
							Carbon disulfide	200 ug/mL
							Carbon tetrachloride	200 ug/mL
							Chlorobenzene	200 ug/mL
							Chlorobromomethane	200 ug/mL
							Chlorodibromomethane	200 ug/mL
							Chloroform	200 ug/mL
							cis-1,2-Dichloroethene	200 ug/mL
							cis-1,3-Dichloropropene	200 ug/mL
							Cyclohexane	200 ug/mL
							Dibromomethane	200 ug/mL
							Dichlorobromomethane	200 ug/mL
							Ethyl ether	200 ug/mL
							Ethyl methacrylate	200 ug/mL
							Ethylbenzene	200 ug/mL
							Ethylene Dibromide	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexane	200 ug/mL
							Iodomethane	200 ug/mL
							Isobutyl alcohol	5000 ug/mL
							Isopropylbenzene	200 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tert-butyl ether	200 ug/mL
							Methylcyclohexane	200 ug/mL
							Methylene Chloride	200 ug/mL
							n-Butylbenzene	200 ug/mL
							n-Heptane	200 ug/mL
							N-Propylbenzene	200 ug/mL
							Naphthalene	200 ug/mL
							o-Xylene	200 ug/mL
							sec-Butylbenzene	200 ug/mL
							Styrene	200 ug/mL
							tert-Butylbenzene	200 ug/mL
							Tetrachloroethene	200 ug/mL
							Tetrahydrofuran	400 ug/mL
							Toluene	200 ug/mL
							trans-1,2-Dichloroethene	200 ug/mL
							trans-1,3-Dichloropropene	200 ug/mL
							trans-1,4-Dichloro-2-butene	200 ug/mL
							Trichloroethene	200 ug/mL
..VOA8260KET1ST_00026	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VOA8260MEGA1_00021	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
WCN0.1L3_00049	05/12/15	05/12/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN10Pi_00487	1 mL	Cyanide, Total	0.1 mg/L
.WCN10Pi_00487	05/17/15	05/11/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN1000P_00024	1 mL	Cyanide, Total	10 mg/L
..WCN1000P_00024	05/20/15	LabChem Inc., Lot D322-27			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCN0.1L3_00052	05/15/15	05/15/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN10Pi_00487	1 mL	Cyanide, Total	0.1 mg/L
.WCN10Pi_00487	05/17/15	05/11/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN1000P_00024	1 mL	Cyanide, Total	10 mg/L
..WCN1000P_00024	05/20/15	LabChem Inc., Lot D322-27			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCN0.2ICV_00334	05/12/15	05/12/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN10Si_00489	2 mL	Cyanide, Total	0.2 mg/L
.WCN10Si_00489	05/17/15	05/11/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN1000S_00017	1 mL	Cyanide, Total	10 mg/L
..WCN1000S_00017	08/31/15	Ricca Chemical Co., Lot 4502438			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCN0.2ICV_00340	05/15/15	05/15/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN10Si_00489	2 mL	Cyanide, Total	0.2 mg/L
.WCN10Si_00489	05/17/15	05/11/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN1000S_00017	1 mL	Cyanide, Total	10 mg/L
..WCN1000S_00017	08/31/15	Ricca Chemical Co., Lot 4502438			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCN0.5L1_00499	05/12/15	05/12/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN10Pi_00487	5 mL	Cyanide, Total	0.5 mg/L
.WCN10Pi_00487	05/17/15	05/11/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN1000P_00024	1 mL	Cyanide, Total	10 mg/L
..WCN1000P_00024	05/20/15	LabChem Inc., Lot D322-27			(Purchased Reagent)		Cyanide, Total	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WCN0.5L1_00501	05/15/15	05/15/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN10Pi_00487	5 mL	Cyanide, Total	0.5 mg/L
.WCN10Pi_00487	05/17/15	05/11/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN1000P_00024	1 mL	Cyanide, Total	10 mg/L
..WCN1000P_00024	05/20/15	LabChem Inc., Lot D322-27			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCN10Pi_00487	05/17/15	05/11/15	Sodium Hyroxide, Lot 2410822	100 mL	WCN1000P_00024	1 mL	Cyanide, Total	10 mg/L
.WCN1000P_00024	05/20/15	LabChem Inc., Lot D322-27			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCNLCS_00019	05/17/15	05/11/15	Sodium Hyroxide, Lot 2410822	100 mL	WCNWSTOCK_00001	1 mL	Cyanide, Total	10 mg/L
.WCNWSTOCK_00001	11/30/15	ERA, Lot 200213			(Purchased Reagent)		Cyanide, Total	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 180-43702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
wchemlcs_00093	06/01/15	05/01/15	ACETONE, Lot K42E14	200 mL	WCHEMHEXADECA_00006	0.4 g	HEM (Oil & Grease)	4000 mg/L
							HEM Polar (Oil and Grease - Polar)	4000 mg/L
					WCHEMSTEARIC_00004	0.4 g	(HEM) - (SGT-HEM)	2000 mg/L
							HEM (Oil & Grease)	4000 mg/L
							HEM Polar (Oil and Grease - Polar)	4000 mg/L
							SGT HEM (Oil and Grease - Nonpolar)	2000 mg/L
							SGT-HEM	2000 mg/L
.WCHEMHEXADECA_00006	11/05/15		Alfa Aesar, Lot K24W010		(Purchased Reagent)		HEM (Oil & Grease)	1 g/g
							HEM Polar (Oil and Grease - Polar)	1 g/g
.WCHEMSTEARIC_00004	03/28/18		ALFA AESAR, Lot I29X007		(Purchased Reagent)		(HEM) - (SGT-HEM)	1 g/g
							HEM (Oil & Grease)	1 g/g
							HEM Polar (Oil and Grease - Polar)	1 g/g
							SGT HEM (Oil and Grease - Nonpolar)	1 g/g
							SGT-HEM	1 g/g

Reagent

GCMATRIXSPK_00001

Certificate of Composition

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Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 561323 **Lot No.:** A076606

Description : Custom Aroclor 1016/1260 Standard

Expiration Date[1]**:** September 2017 **Storage:** Refrigerate

Handling: This product contains PCB's

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	Aroclor 1016	12674-11-2	----%	10,000.000 ug/ml	+/-0.59 %
2	Aroclor 1260	11096-82-5	----%	10,000.000 ug/ml	+/-0.59 %
Solvent:	Isooctane	540-84-1	99%		

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

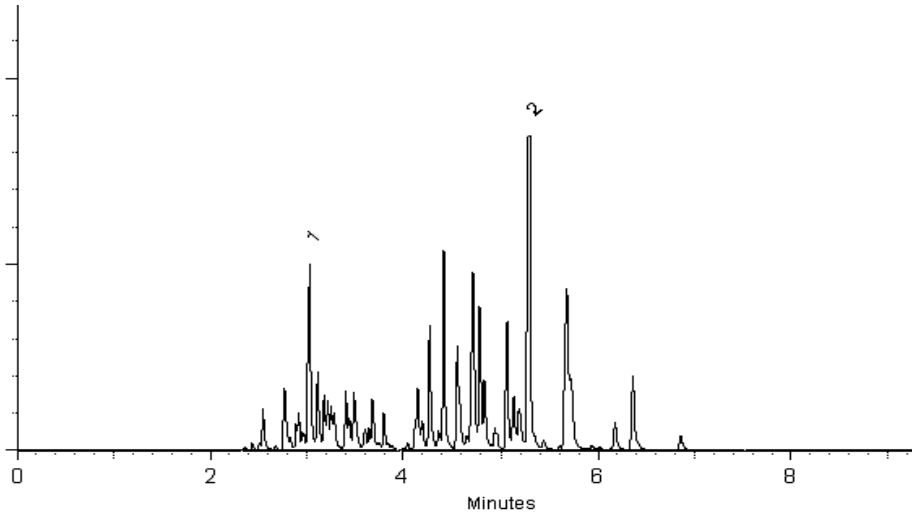
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Diane Shaffer - QA Analyst

Date Passed: 01-Sep-2010 **Balance:** 1128342313

APPROVED

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

1 Expiration date of the unopened ampule stored at the recommended storage condition.

2A Purity is determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest whole number. Chemical identity is confirmed using GC/MS. See data pack or contact provider for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

Reagent

GCPCBI1221STD_00002

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 32007 **Lot No.:** A090667

Description : Aroclor® 1221 Standard

Aroclor 1221 1000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 2018 **Storage:** 25°C nominal

Handling: Contains PCBs - sonicate prior to use.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 11104-28-2		+/- 20.8758	µg/mL	Unstressed
	Purity ----%		+/- 34.3670	µg/mL	Stressed

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

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

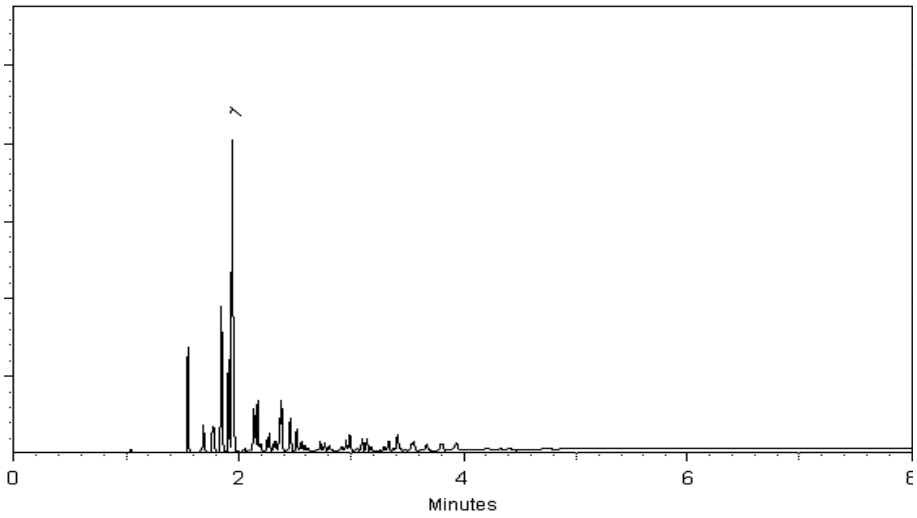
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Jodi E. Breon - QA Analyst

Date Passed: 13-Sep-2012 **Balance:** 1125113331

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

GCPCBI1232STD_00002

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32008.sec **Lot No.:** A095877

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : September 30, 2019 **Storage:** 25°C nominal

Handling: This product contains PCBs.

C E R T I F I E D V A L U E S

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

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

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

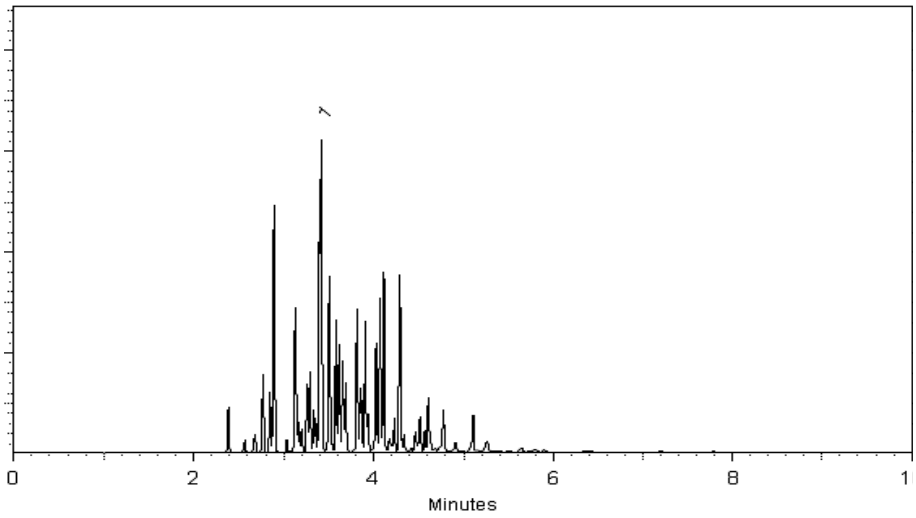
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Michael J Maye

Date Mixed: 07-Jun-2013 **Balance:** 1128353505

Jennifer L Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 11-Jun-2013

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

GCPCBI1232STD_00003

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 32008 **Lot No.:** A090290

Description : Aroclor® 1232 Standard

Aroclor 1232 1000ug/mL, Hexane, 1mL/ampul

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

Expiration Date : November 2018 **Storage:** 25°C nominal

Handling: Contains PCBs - sonicate prior to use.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 11141-16-5		+/- 20.8758	µg/mL	Unstressed
	Purity 99%		+/- 34.3670	µg/mL	Stressed

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

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

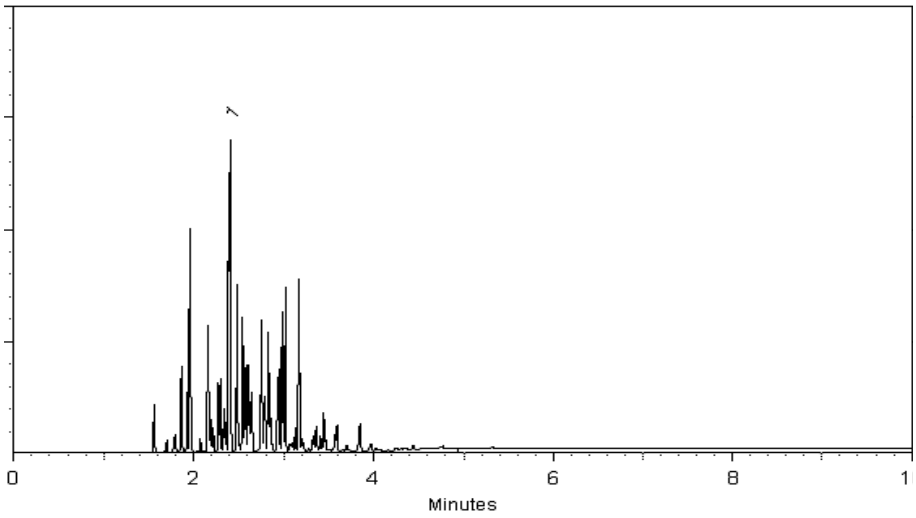
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Jodi E. Breon - QA Analyst

Date Passed: 27-Aug-2012 **Balance:** 1128342314

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

GCPCBI1242STD_00003

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32009 **Lot No.:** A090182

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : November 30, 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242	1,000.0 µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/- 20.8643	µg/mL	Unstressed
	Purity ----%		+/- 34.3600	µg/mL	Stressed

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

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

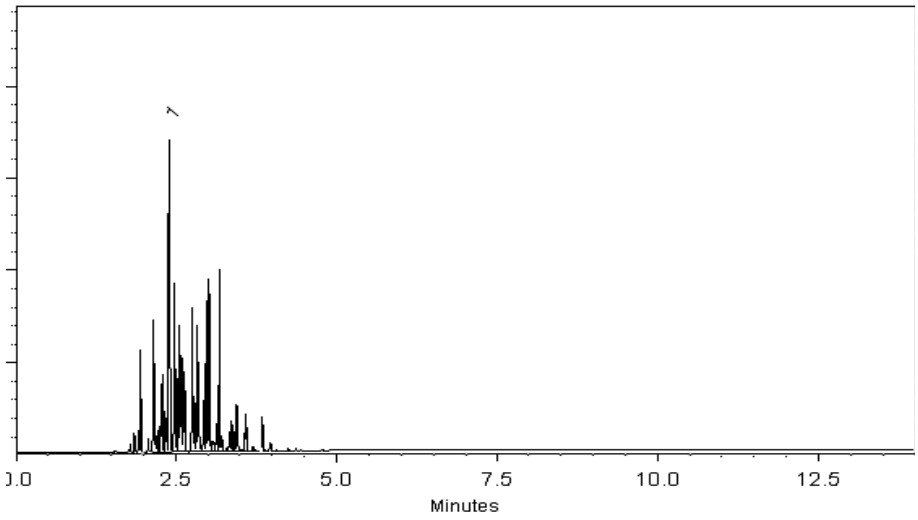
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Rebecca Sawyer

Date Mixed: 10-Aug-2012 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 15-Aug-2012

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

GCPCBI1248STD_00003

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 32010 **Lot No.:** A092864

Description : Aroclor® 1248 Standard

Aroclor 1248 1000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1248	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 12672-29-6		+/- 20.8758	µg/mL	Unstressed
	Purity ----%		+/- 34.3670	µg/mL	Stressed

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

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

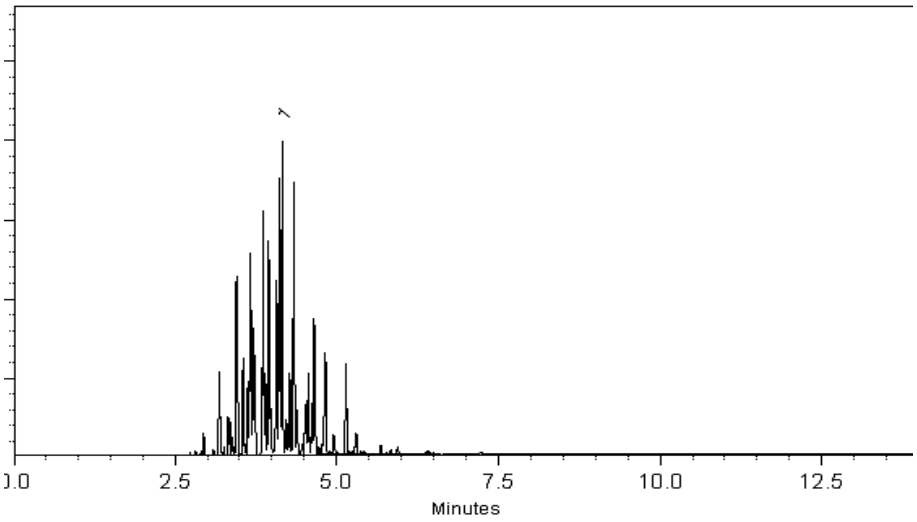
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Diane Shaffer - QA Analyst

Date Passed: 14-Jan-2013 **Balance:** 1125113331

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

GCPCBI1254STD_00002

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Certificate #3222.01

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32011.sec **Lot No.:** A095778

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : September 30, 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 11097-69-1.SEC (Lot RM00922)		+/- 20.9377	µg/mL	Unstressed
	Purity ----%		+/- 34.4480	µg/mL	Stressed

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

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

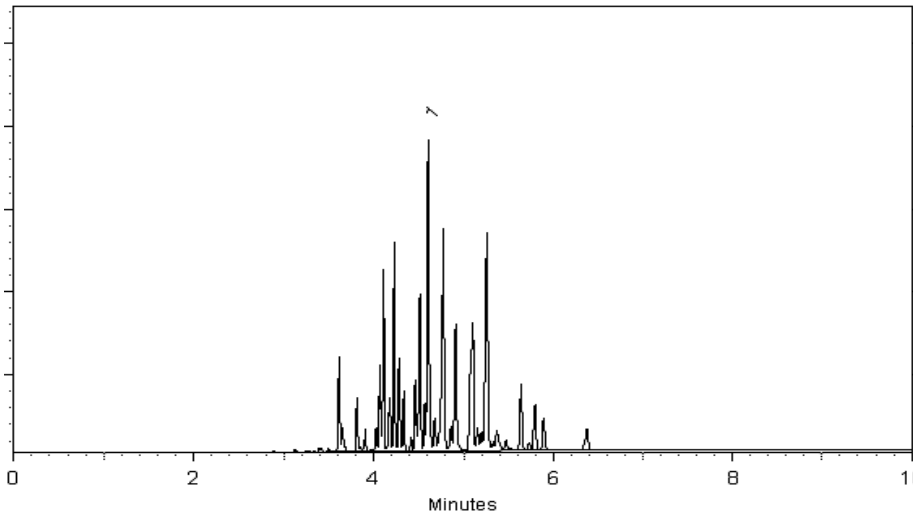
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Michael J Maye

Date Mixed: 03-Jun-2013 **Balance:** 1128353505

Jennifer L Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 05-Jun-2013

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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Certificate of Analysis

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Catalog No. : 32011 **Lot No.:** A092005

Description : Aroclor® 1254 Standard

Aroclor 1254 1000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : February 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 11097-69-1		+/- 20.8758	µg/mL	Unstressed
	Purity 99%		+/- 34.3670	µg/mL	Stressed

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

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

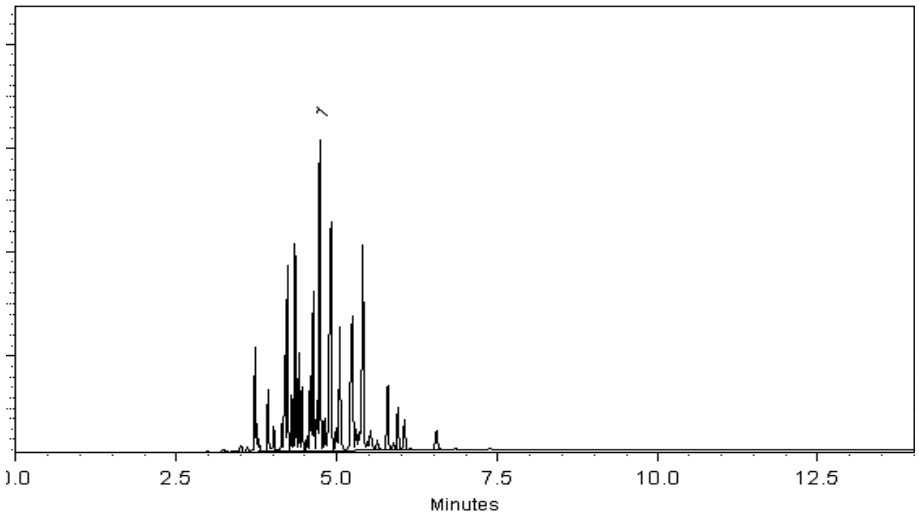
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Jennifer L. Pollino - QC Analyst

Date Passed: 21-Nov-2012 **Balance:** 1128342313

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

GCPCBI1262STD_00003

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Certificate of Analysis

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

Catalog No. : 32409 **Lot No.:** A094073

Description : Aroclor® 1262 Standard

Aroclor® 1262 Standard 1,000 µg/mL, 1mL/ampul, Hexane

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

Expiration Date : June 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1262	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 37324-23-5		+/- 20.8959	µg/mL	Unstressed
	Purity ----%		+/- 34.3792	µg/mL	Stressed

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

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

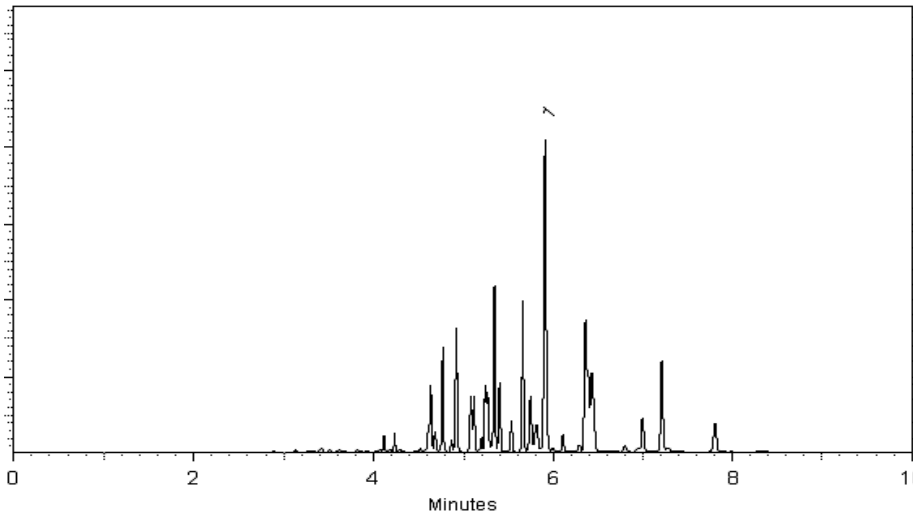
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Jennifer L. Pollino - QC Analyst

Date Passed: 15-Mar-2013 **Balance:** B251644995

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

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Catalog No. : 32410 **Lot No.:** A091468

Description : Aroclor® 1268 Standard

Aroclor 1268 Std 1000µg/mL, 1mL/ampul, Hexane

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

Expiration Date : January 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1268	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11100-14-4		+/- 20.8959	µg/mL	Unstressed
	Purity ----%		+/- 34.3792	µg/mL	Stressed

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

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

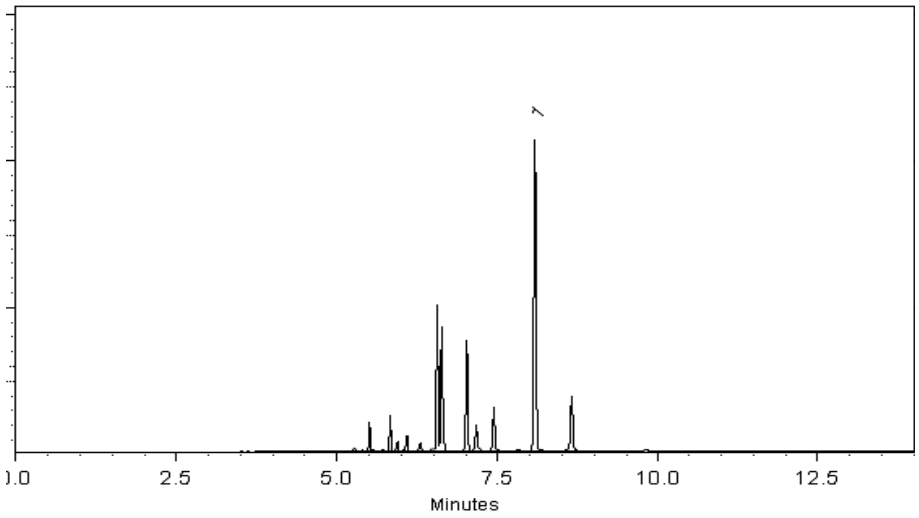
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Jodi E. Breon - QA Analyst

Date Passed: 01-Nov-2012 **Balance:** 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

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

Manufacturing Notes:

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

Handling Notes:

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

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Catalog No. : 32039 **Lot No.:** A092844

Description : Aroclor® 1016/1260 Mix

Aroclor 1016/1260 1000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016	1,000.0 µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 12674-11-2		+/- 20.8643	µg/mL	Unstressed
	Purity 99%		+/- 34.3600	µg/mL	Stressed
2	Aroclor 1260	1,000.0 µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 11096-82-5		+/- 20.8643	µg/mL	Unstressed
	Purity ----%		+/- 34.3600	µg/mL	Stressed

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

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

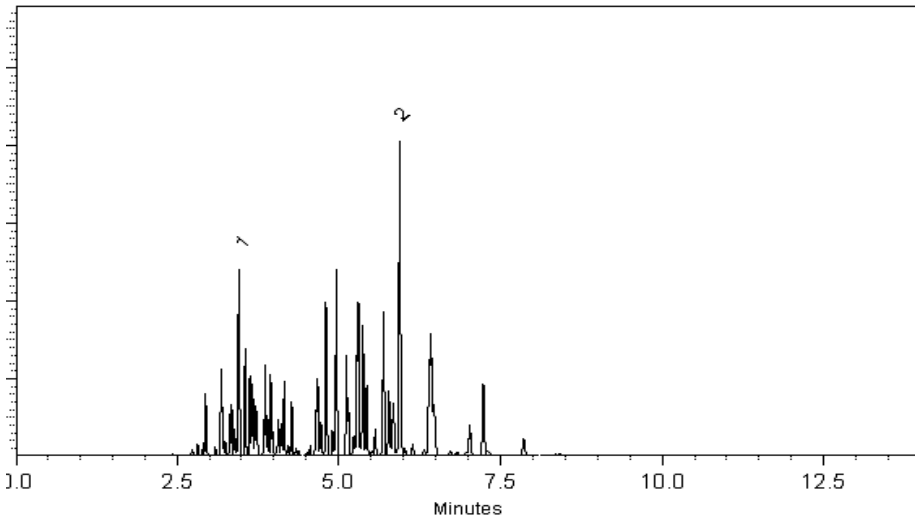
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



Diane Shaffer - QA Analyst

Date Passed: 14-Jan-2013 **Balance:** 1125113331

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

M6020ICS-0A_00005

INORGANIC VENTURES™

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inorganicventures.com

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fax: 540.585.3012
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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01

ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM**

	Stock Solution
Catalog No.:	6020ICS-0A
Lot Number:	**G2-MEB476152MCA**
Matrix:	1.4% HNO3(v/v)

10,000 µg/mL ea:
Chloride,

2,000 µg/mL ea:
C,

1,000 µg/mL ea:
Al, Ca, Fe, K, Mg, Na, P, S,

20 µg/mL ea:
Mo, Ti

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	1,002 ± 6 µg/mL	Calcium, Ca	1,002 ± 6 µg/mL	Carbon, C	2,004 ± 13 µg/mL
Chloride, Chloride	10,020.0 ± 50.0 µg/mL	Iron, Fe	1,002 ± 7 µg/mL	Magnesium, Mg	1,002 ± 4 µg/mL
Molybdenum, Mo	20.04 ± 0.14 µg/mL	Phosphorus, P	1,002 ± 7 µg/mL	Potassium, K	1,002 ± 4 µg/mL
Sodium, Na	1,002 ± 7 µg/mL	Sulfur, S	1,002 ± 5 µg/mL	Titanium, Ti	20.04 ± 0.13 µg/mL

Certified Density: 1.034 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$$

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.
- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
C	Gravimetric		See Sec. 4.2
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Chloride	Acidimetric	84L	84L
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	010728
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84k	84k
Ti	ICP Assay	3162a	060808

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL

Custom-Grade solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Al		M	Dy	< 0.000100	O	Li	0.002000	M	Pr	< 0.000100	M	Te	< 0.012007
M	Sb	< 0.000600	M	Er	< 0.000100	M	Lu	< 0.000100	M	Re	< 0.000100	M	Tb	< 0.000100
O	As	< 0.020000	M	Eu	< 0.000100	s	Mg		M	Rh	< 0.000100	M	Tl	< 0.000100
O	Ba	< 0.000200	M	Gd	< 0.000100	O	Mn	0.003000	M	Rb	< 0.020012	M	Th	< 0.000100
O	Be	< 0.000090	M	Ga	< 0.001001	O	Hg	< 0.005000	M	Ru	< 0.000100	M	Tm	< 0.000100
M	Bi	< 0.005003	O	Ge	< 0.015000	s	Mo		M	Sm	< 0.000100	M	Sn	< 0.003002
O	B	< 0.005000	M	Au	< 0.001001	M	Nd	< 0.000100	O	Sc	< 0.000700	s	Ti	
O	Cd	0.003400	M	Hf	< 0.002001	O	Ni	< 0.002000	M	Se	< 0.050029	O	W	< 0.007000
s	Ca		M	Ho	< 0.000100	M	Nb	< 0.002001	n	Si		M	U	< 0.000100
M	Ce	< 0.000500	M	In	< 0.001001	n	Os		M	Ag	< 0.001001	O	V	< 0.004000
M	Cs	< 0.001001	M	Ir	< 0.000100	M	Pd	< 0.003002	s	Na		M	Yb	< 0.000100
O	Cr	< 0.010000	s	Fe		s	P		O	Sr	0.005000	M	Y	< 0.000100
M	Co	< 0.001001	M	La	< 0.000200	M	Pt	< 0.000100	s	S		M	Zn	0.016610
O	Cu	< 0.020000	M	Pb	0.002001	s	K		M	Ta	< 0.001001	M	Zr	< 0.004002

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: July 12, 2013

Expiration Date: EXPIRES 01 SEP 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Zach Saunders
Product Documentation Technician

Zachary Saunders

Certificate Approved By: Allyson Guilliams
Quality Control Supervisor

Allyson Guilliams

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

M6020ICS-0B_00006

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 DESCRIPTION OF CRM **Stock Solution**

Catalog No.: 6020ICS-0B

Lot Number: **G2-MEB463151**

Matrix: 3% HNO3(v/v)

2 µg/mL ea:

Ag, As, Cd, Co, Cr3, Cu, Mn, Ni, Zn

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Arsenic, As	2.000 ± 0.013 µg/mL	Cadmium, Cd	2.000 ± 0.013 µg/mL	Chromium+3, Cr3	2.000 ± 0.013 µg/mL
Cobalt, Co	2.000 ± 0.013 µg/mL	Copper, Cu	2.000 ± 0.013 µg/mL	Manganese, Mn	2.000 ± 0.013 µg/mL
Nickel, Ni	2.000 ± 0.013 µg/mL	Silver, Ag	2.000 ± 0.013 µg/mL	Zinc, Zn	2.000 ± 0.013 µg/mL

Certified Density: 1.012 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$$

($\bar{x}$) = mean

x_i = individual results

n = number of measurements

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Zn	ICP Assay	3168a	080123
Zn	EDTA	928	928

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked dally using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 25, 2013

Expiration Date: EXPIRES 01 SEP 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Zach Saunders
Product Documentation Technician

Certificate Approved By: Allyson Guilliams
Quality Control Supervisor

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Reagent

MCALSPECAREV_00006

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TAPITT-CAL-SPECA-REV
Lot Number:	J2-MEB575123
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	2 500 µg/mL ea:

Ca,	K,	Mg,
Na,		

1 250 µg/mL ea:
Fe,

25 µg/mL ea:

Al,	Mn,	

5 µg/mL ea:

Ag,	As,	Ba,
Be,	Cd,	Co,
Cr3,	Cu,	Ni,
Pb,	Se,	Sr,
Tl,	V,	Zn

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	25.01 ± 0.13 µg/mL	Arsenic, As	5.000 ± 0.032 µg/mL
Barium, Ba	4.997 ± 0.028 µg/mL	Beryllium, Be	5.003 ± 0.032 µg/mL
Cadmium, Cd	4.998 ± 0.032 µg/mL	Calcium, Ca	2 500 ± 11 µg/mL
Chromium+3, Cr3	4.999 ± 0.028 µg/mL	Cobalt, Co	4.999 ± 0.025 µg/mL
Copper, Cu	4.998 ± 0.032 µg/mL	Iron, Fe	1 250 ± 6 µg/mL
Lead, Pb	4.999 ± 0.025 µg/mL	Magnesium, Mg	2 500 ± 12 µg/mL
Manganese, Mn	24.99 ± 0.12 µg/mL	Nickel, Ni	4.998 ± 0.028 µg/mL
Potassium, K	2 500 ± 11 µg/mL	Selenium, Se	4.998 ± 0.028 µg/mL
Silver, Ag	4.998 ± 0.036 µg/mL	Sodium, Na	2 500 ± 11 µg/mL
Strontium, Sr	5.002 ± 0.032 µg/mL	Thallium, Tl	4.999 ± 0.040 µg/mL
Vanadium, V	5.002 ± 0.032 µg/mL	Zinc, Zn	5.001 ± 0.028 µg/mL

Certified Density: 1.048 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Al	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	060502
As	EDTA		See Sec. 4.2
As	ICP Assay	3103a	100818
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	000630 Co
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stablity.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep cap tightly sealed when not in use. Store and use at 20 ± 4° C. Do not pipette from the container. Do not return removed aliquots to container.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 27, 2015

11.2 Expiration Date

EXPIRES
1 JUN 2016

11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Donna Senn
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MCALSPECB_00008

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CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TAPITT-CAL-SPECB
Lot Number:	J2-MEB575124
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	250 µg/mL ea: Si, 5 µg/mL ea: B, Mo, Sb, Sn, Ti

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**4.998 ± 0.043 µg/mL**	**Boron, B**	**5.002 ± 0.032 µg/mL**
Molybdenum, Mo	**4.998 ± 0.034 µg/mL**	**Silicon, Si**	**249.9 ± 1.9 µg/mL**
Tin, Sn	**4.998 ± 0.030 µg/mL**	**Titanium, Ti**	**4.998 ± 0.039 µg/mL**

Certified Density: 1.013 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	ICP Assay	3162a	060808

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2 [\Sigma(s_i)^2]^{½}$ 2 = the coverage factor.
$[\Sigma(s_i)^2]^{½}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep cap tightly sealed when not in use. Store and use at 20 ± 4° C. Do not pipette from the container. Do not return removed aliquots to container.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 27, 2015

11.2 Expiration Date

EXPIRES
1 JAN 2016

11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Donna Senn
Product Documentation Technician

Donna Senn

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Brian Alexander

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MCGHG1-1_00009

1459119
1459120

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

Rec'd 1/8/15 RJR

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGHG1
Lot Number:	H2-HG02128
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Hg
Starting Material:	Hg Metal
Starting Material Lot#:	1780
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1 007 ± 3 µg/mL - weighted mean

Certified Density: 1.026 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1	**1 004 ± 5 µg/mL** ICP Assay NIST SRM 3133 Lot Number: 061204
Assay Method #2	**1 009 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two Methods

Certified Value, $X_{CRM/RM}$, where two methods of characterization are used is the weighted mean of the two results:

$X_{CRM/RM} = [(w_a)(X_a) + (w_b)(X_b)]$

X_a = mean of Assay Method A with standard uncertainty $u_{char\ a}$

X_b = mean of Assay Method B with standard uncertainty $u_{char\ b}$

w_a and w_b = the weighting factors for each method calculated using the inverse square of the variance:

$w_a = (1/u_{char\ a})^2 / ((1/u_{char\ a})^2 + (1/u_{char\ b})^2))$

$w_b = (1/u_{char\ b})^2 / ((1/u_{char\ a})^2 + (1/u_{char\ b})^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a\&b} + u^2_{bb} + u^2_{lts} + u^2_{sts})^{½}$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char\ a\&b} = [(w_a)^2 (u_{char\ a})^2 + (w_b)^2 (u_{char\ b})^2]^{½}$ where $u_{char\ a}$ and $u_{char\ b}$ are the square root of the sum of the squares of errors from characterization which include instrument measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{sts} = short term stability standard uncertainty (transportation)

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM}$ = mean of Assay Method A with standard uncertainty $u_{char\ a}$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{sts})^{½}$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char\ a}$ = square root of the sum of the squares of the errors from characterization which include instrumental measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{sts} = short term stability standard uncertainty (transportation)

No correction has been applied for transpiration that will occur after the CRM/RM bottle has been removed from the sealed aluminized bag. See Sec. 7.0 (Instructions for the Correct Use of this Reference Material) for more information.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.003050	M	Er	<	0.000203	O	Mn	<	0.000161	O	S	<	0.005380	O	V	<	0.000538
O	Al	<	0.000753	M	Eu	<	0.000203	M	Mo	<	0.002033	M	Sb	<	0.002033	M	W	<	0.001017
M	As	<	0.001017	O	Fe	<	0.001614	O	Na		0.000787	O	Sc	<	0.000430	M	Y	<	0.000203
M	Au	<	0.002033	M	Ga	<	0.000203	M	Nb	<	0.000610	M	Se	<	0.014233	M	Yb	<	0.000203
M	B	<	0.004067	M	Gd	<	0.000203	M	Nd	<	0.000203	O	Si		0.000899	O	Zn		0.000146
M	Ba	<	0.000610	M	Ge	<	0.001627	O	Ni	<	0.001614	M	Sm	<	0.000203	O	Zr	<	0.001614
O	Be	<	0.000108	M	Hf	<	0.000610	n	Os	<		M	Sn	<	0.000203				
M	Bi	<	0.002033	s	Hg	<		O	P	<	0.010760	O	Sr	<	0.000215				
O	Ca		0.001068	M	Ho	<	0.000203	M	Pb	<	0.000610	M	Ta	<	0.000610				
M	Cd	<	0.000203	M	In	<	0.000407	M	Pd	<	0.003050	M	Tb	<	0.000203				
M	Ce	<	0.000203	M	Ir	<	0.000203	M	Pr	<	0.000203	M	Te	<	0.004067				
M	Co	<	0.000407	O	K		0.000562	M	Pt	<	0.000203	M	Th	<	0.000407				
O	Cr	<	0.000538	M	La	<	0.000203	M	Rb	<	0.000203	O	Ti	<	0.000646				
M	Cs	<	0.004067	O	Li	<	0.000215	M	Re	<	0.000203	O	Tl	<	0.005380				
O	Cu	<	0.002152	M	Lu	<	0.000203	M	Rh	<	0.000203	M	Tm	<	0.000203				
M	Dy	<	0.000203	O	Mg		0.000169	M	Ru	<	0.000203	M	U	<	0.004067				

M - Checked by ICP-MS O - Checked by ICP-OES I - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30°C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag keep cap tightly sealed when not in use. Store and use at 20° ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+
Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.
Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.
Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

- August 28, 2014

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec. 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Period of Validity

- Sealed TCT Bag Open Date: 2/2/2015

- This CRM/RM should not be used longer than one year from the date of opening the sealed TCT bag or after the date given in Sec. 11.3, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.3 Lot Expiration Date

- August 28, 2017

- The date after which this CRM/RM should not be used (See Sec. 11.2).

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Zach Saunders
Product Documentation Technician

Zachary Saunders

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Brian Alexander

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MHGICV-1_00005

Material Safety Data Sheet

ULTRA Scientific · 250 Smith Street · North Kingstown, RI, USA 02852 · 401-294-9400

Product #: ICP-080 **Last Update: 4/7/2014**

Section I Product Identification

Name: Mercury Standard

Matrix : water with dilute nitric acid

Section II Composition / Information on Ingredients

Component	CAS#	% by Wt.	LD50	OSHA PEL	ACGIH TLV	RTECS #	Codes
water	007732-18-5	97.9	>90 mL/kg oral rat	N/A	N/A	ZC0110000	
nitric acid	007697-37-2	2	N/A	5 mg/m3	5.2 mg/m3	QU5775000	G
mercury, inorganic compounds as Hg	007439-97-6	0.1	26 mg/kg oral rat	0.1 mg/m3	.025 mg/m3	OV4550000	

Codes: A-OSHA regulated carcinogen; B-IARC Group 1 carcinogen; C-IARC Group 2A carcinogen; D-IARC Group 2B carcinogen; E-NTP Group 1 carcinogen; F-NTP Group 2 carcinogen; G-SARA Title III compound; H-California Proposition 65 compound.

Section III Hazards Identification

Irritant

All chemicals should be considered hazardous - direct physical contact should be avoided.

Section IV First Aid Measures

Inhalation:	If inhaled, remove to fresh air. Give oxygen, if necessary. Contact a physician.
Skin Contact:	In case of skin contact, flush with copious amounts of water. Remove contaminated clothing. Contact a physician.
Eye Contact:	In case of eye contact, flush with copious amounts of water, lifting eyelids occasionally. Contact a physician.
Ingestion:	If ingested, contact poison center immediately for recommended procedure. Contact a physician.

Section V Fire Fighting Measures

Fire and Explosion Hazard Data for Matrix

Fire Hazard: non-combustible

Extinguishing Media: Carbon dioxide, dry chemical powder, or water spray.

Section VI Accidental Release Measures

Ventilate area of the leak or spill. Wear appropriate personal protective equipment as specified in Section VIII. A leaking bottle, vial, or ampule may be placed in a plastic bag, and normal disposal procedures followed. Take up spilled material with sand or other non-combustible absorbant material, and place in an appropriate container for later disposal. Flush spill area with water.

Section VII Handling and Storage

Store at Room Temperature (18-25°C)

Keep in a tightly closed container, and store in a corrosion proof area.

This product should only be used by persons trained in the safe handling of hazardous chemicals.

Section VIII Exposure Controls / Personal Protection

Ensure that there is adequate ventilation to prevent airborne levels from exceeding recommended exposure limits (see Section II). Use appropriate MSHA/NIOSH approved safety equipment. Wear chemical goggles, face shield, gloves, and chemical resistant clothing, such as a laboratory coat and/or a rubber apron, to prevent contact with eyes, skin, and clothing.

Section IX Physical and Chemical Properties

Physical Data for Matrix

Melting Pt.: 0°C Boiling Pt.: 100°C Density: 1

Vapor Pressure: N/A | Vapor Density: N/A | Water Solubility: soluble
Appearance: colorless liquid | Odor: none | Flash Point: none
Auto-Ignition Temperature: N/A | LEL: N/A | UEL: N/A

Section X Stability and Reactivity

Reactivity Data for Matrix

Stability: stable

Incompatibilities:
organic materials
str. reducing agents
alkalies
antimony salts

Hazardous Decomposition Products: NO2, NO3

Hazardous Effects of Polymerization: none

Section XI Toxicological Information

See Section II for specific toxicological information for the ingredients of this product.

Section XII Ecological Information

No information is available.

Section XIII Disposal Considerations

Recycle, if possible. Any material which cannot be saved for recovery or recycling should be disposed of at an appropriate and approved waste disposal facility. Processing, use, and/or contamination of this product may change waste management requirements. Observe all applicable federal, state, and local environmental regulations concerning disposal.

Section XIV Transport Information

Shipment Type: Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid)

UN Number: UN3264 | Shipping Class: 8 | Packing Group: III

Section XV Regulatory Information

EU Directives Classification

R: 34

Risk Statements: Causes burns.

S: 23-26-36-45

Safety Statements: Do not breathe gas/fumes/vapour/spray. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section XVI Other Information

The above information is believed to be correct, but does not purport to be all-inclusive. This data should be used only as a guide in handling this material. ULTRA Scientific, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.

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Reagent

MICPMSICV_00018

Reference Materials Producer
Cert #2495.01

SPEXertificate®

Certificate of Reference Material

Chemical Testing
Cert #2495.02

Catalog Number: ZCAL-60-250 **Lot No.** 7-230WL

Description: Custom Claritas Standard

Matrix: 5% HNO_3 / Tr. Tart. Acid / Tr. HF

This **CLARITAS PPT®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for inorganic spectroscopic instrumentation such as ICP-OES, DCP, AA, ICP-MS, and XRF. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

The CRM is prepared from high purity single element concentrates of individual elements using Class A laboratory ware to give precise concentrations.

Instrumental Analysis by ICP Spectrometer:

Analyte	Labeled	Uncertainty	SRM	Analyte	Labeled	Uncertainty	SRM
Ca	1000 µg/mL	±5 µg/mL	3109a*	Co	2 µg/mL	±0.01 µg/mL	3113*
K	1000 µg/mL	±5 µg/mL	3141a*	Cr	2 µg/mL	±0.01 µg/mL	3112a*
Mg	1000 µg/mL	±5 µg/mL	3131a*	Cu	2 µg/mL	±0.01 µg/mL	3114*
Na	1000 µg/mL	±5 µg/mL	3152a*	Mo	2 µg/mL	±0.01 µg/mL	3134*
Fe	500 µg/mL	±3 µg/mL	3126a*	Ni	2 µg/mL	±0.01 µg/mL	3136*
Si	100 µg/mL	±0.5 µg/mL	3150*	Pb	2 µg/mL	±0.01 µg/mL	3128*
Al	10 µg/mL	±0.05 µg/mL	3101a*	Sb	2 µg/mL	±0.01 µg/mL	3102a*
Mn	10 µg/mL	±0.05 µg/mL	3132*	Se	2 µg/mL	±0.01 µg/mL	3149*
Ag	2 µg/mL	±0.01 µg/mL	3151*	Sn	2 µg/mL	±0.01 µg/mL	3161a*
As	2 µg/mL	±0.01 µg/mL	3103a*	Sr	2 µg/mL	±0.01 µg/mL	3153a*
B	2 µg/mL	±0.01 µg/mL	3107*	Ti	2 µg/mL	±0.01 µg/mL	3162a*
Ba	2 µg/mL	±0.01 µg/mL	3104a*	Tl	2 µg/mL	±0.01 µg/mL	3158*
Be	2 µg/mL	±0.01 µg/mL	3105a*	V	2 µg/mL	±0.01 µg/mL	3165*
Cd	2 µg/mL	±0.01 µg/mL	3108*	Zn	2 µg/mL	±0.01 µg/mL	3168a*

* - indicates NIST SRM † - Indicates SPEX CertiPrep CRM (when NIST SRM is not available)

SPEX CertiPrep Reference Multi: Lot# ALL 8

Trace Metallic Impurities in the Actual Solution via ICP-MS Analysis:

Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L	Element	µg/L
Au	<0.4	Ga	<2	Ir	<0.1	Pd	<1	Sc	30	Tm	5
Bi	<1	Gd	4	La	5	Pr	5	Sm	<4	U	0.08
Ce	6	Ge	<8	Li	<4	Pt	<0.1	Ta	7	W	10
Cs	<0.08	Hf	0.7	Lu	4	Rb	30	Tb	5	Y	5
Dy	4	Hg	<0.6	Nb	5	Re	4	Te	<4	Yb	4
Er	<0.4	Ho	5	Nd	<3	Rh	<0.2	Th	4	Zr	7
Eu	<0.5	In	<0.2	P	<300	Ru	<2				

Balances are calibrated regularly with weight sets traceable to NIST#s 32856, 32867 and others. This CRM is guaranteed stable and accurate to ±0.5% of the labeled value. This includes uncertainty components due to preparation, measurement, homogeneity, short-term and long-term stability, as well as transpiration loss. This guarantee is valid for a period of one year from the date of certification only when the material is unopened and stored under ambient laboratory conditions.

Date of Certification: NOV 2014 Certifying Officer:

©2013 SPEX CertiPrep, Inc.

Report of Certification

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 quality system consistent with the following guides:

- ISO 9001: Quality management systems – Requirements – certified by UL-DQS
- ISO 17025: General requirements for the competence of testing and calibration laboratories – accredited by A2LA
- ISO Guide 34: General requirements for the competence of reference material producers – accredited by A2LA
- ISO Guide 31: Reference Materials – Contents of certificates and labels
- ISO Guide 35: Reference Materials – General & Statistical Principals for Certification
- Guide To The Expression Of Uncertainty In Measurement 1997
- EURACHEM/CITAC Guide: Quantifying Uncertainty in Analytical Measurement – Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference materials producers
- ISO/REMCO N280

Material Source:
All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For further assistance, please contact the Sales Support Department at crmsales@spexcsp.com.

Instructions for Use:
Primary usage of this CRM is in neat form or diluted serially with matrix of a purity at or greater than the purity of the original matrix solution. If dilution is required the diluent must be compatible with all certified analytes and contain stabilizers appropriate for the period of intended use. The CRM can also be used as a spike or with a spike, again with appropriate compatibility considerations. All solutions should be thoroughly mixed, by shaking, prior to use and never pipetted directly from the bottle. All surfaces that come in contact with the solution must be thoroughly cleaned and leached prior to use. Dilutions should be performed only with Class A volumetric glassware.

Method of Preparation:
Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, analytical instrumentation and personnel have been qualified prior to use. The highest purity acids applicable, 18 megohm, double deionized water, acid-leached triple-rinsed bottles (where appropriate), and Class A/calibrated volumetrics have been used in all preparations.

Homogeneity:
The homogeneity of the CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4600-HOMOGEN-1A. Since the product is highly homogeneous, any sample size taken for analysis would be within the uncertainty budget. This is consistent with the intended use of the CRM.

Statistical Estimator and Confidence Limits:
The certified value 'X' listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X = certified value, U = expanded uncertainty, x = property value
- $U = ku_c$ where $k = 2$ is the coverage factor at the 95% confidence level
- u_c is obtained by combining the individual element standard uncertainty components u_i, and $u_c = \sqrt{\sum u_i^2}$

Certification Traveler Report:
All certified values reported were derived from the Traveler Report (SPEX CertiPrep's traceability documentation) identified by the lot number of this CRM. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further assistance, please contact the Sales Support Department at crmsales@spexcsp.com.

Legal Notice:
SPEX CertiPrep reference materials are not for any cosmetic, drug or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep, Inc. of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep, Inc. be liable for any loss of profits or any incidental, special, or consequential damages.

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Reagent

MMSCRI-1B_00005

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TAPITT-MSCRI-1B-REV1
Lot Number:	J2-MEB572092
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	125 µg/mL ea:
	Ca, K, Mg, Na,
	12.5 µg/mL ea:
	Fe,
	7.5 µg/mL ea:
	Al,
	2.5 µg/mL ea:
	Ba,
	1.25 µg/mL ea:
	Mn, Se, Sr, Zn,
	0.5 µg/mL ea:
	Cr3, Cu,
	0.25 µg/mL ea:
	Ag, As, Be, Cd,
	Ni, Pb, Tl, V,
	0.125 µg/mL ea:
	Co

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	7.49 ± 0.05 µg/mL	Arsenic, As	0.2501 ± 0.0021 µg/mL
Barium, Ba	2.500 ± 0.019 µg/mL	Beryllium, Be	0.2500 ± 0.0021 µg/mL
Cadmium, Cd	0.2501 ± 0.0019 µg/mL	Calcium, Ca	125.0 ± 0.6 µg/mL
Chromium+3, Cr3	0.5000 ± 0.0041 µg/mL	Cobalt, Co	0.1250 ± 0.0011 µg/mL
Copper, Cu	0.5003 ± 0.0035 µg/mL	Iron, Fe	12.50 ± 0.07 µg/mL
Lead, Pb	0.2501 ± 0.0017 µg/mL	Magnesium, Mg	125.0 ± 0.6 µg/mL
Manganese, Mn	1.250 ± 0.010 µg/mL	Nickel, Ni	0.2500 ± 0.0020 µg/mL
Potassium, K	125.0 ± 0.6 µg/mL	Selenium, Se	1.250 ± 0.010 µg/mL
Silver, Ag	0.2500 ± 0.0023 µg/mL	Sodium, Na	125.0 ± 0.6 µg/mL
Strontium, Sr	1.250 ± 0.008 µg/mL	Thallium, Tl	0.2501 ± 0.0021 µg/mL
Vanadium, V	0.2499 ± 0.0018 µg/mL	Zinc, Zn	1.250 ± 0.010 µg/mL

Certified Density: 1.019 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	892707
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	080123
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{X}) = \frac{\Sigma X_i}{n}$ ($\bar{X}$) = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2 [\Sigma(s_i)^2]^{1/2}$ 2 = the coverage factor.

$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep cap tightly sealed when not in use. Store and use at 20 ± 4° C. Do not pipette from the container. Do not return removed aliquots to container.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 20, 2015

11.2 Expiration Date

EXPIRES
01 APR 2016

11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Zach Saunders
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MMSCRI-2_00007

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TAPITT-MSCRI-2-REV1
Lot Number:	J2-MEB572093
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	125 µg/mL ea: Si, 5 µg/mL ea: B, 1.25 µg/mL ea: Mo, Sn, Ti, 0.5 µg/mL ea: Sb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**0.5004 ± 0.0037 µg/mL**	**Boron, B**	**4.998 ± 0.032 µg/mL**
Molybdenum, Mo	**1.250 ± 0.011 µg/mL**	**Silicon, Si**	**125.0 ± 1.0 µg/mL**
Tin, Sn	**1.250 ± 0.010 µg/mL**	**Titanium, Ti**	**1.250 ± 0.010 µg/mL**

Certified Density: 1.023 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2 [\Sigma(s_i)^2]^{1/2}$ 2 = the coverage factor.
$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep cap tightly sealed when not in use. Store and use at 20 ± 4° C. Do not pipette from the container. Do not return removed aliquots to container.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 20, 2015

11.2 Expiration Date

EXPIRES
01 APR 2016

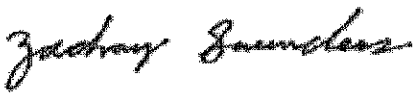
11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

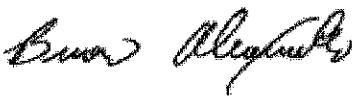
Certificate Prepared By:

Zach Saunders
Product Documentation Technician



Certificate Approved By:

Brian Alexander
PhD., Technical Process Director



Certifying Officer:

Paul Gaines
PhD., Senior Technical Director



Reagent

MMSICSAB-1_00008

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TAPITT-MSICSAB-1
Lot Number:	J2-MEB575125
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Ba, Be, Pb,
Sr, Tl, V

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.06 µg/mL	Beryllium, Be	10.00 ± 0.06 µg/mL
Lead, Pb	10.00 ± 0.05 µg/mL	Strontium, Sr	10.00 ± 0.06 µg/mL
Thallium, Tl	10.00 ± 0.08 µg/mL	Vanadium, V	10.00 ± 0.06 µg/mL

Certified Density: 1.013 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	ICP Assay	3105a	090514
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep cap tightly sealed when not in use. Store and use at 20 ± 4° C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

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- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 27, 2015

11.2 Expiration Date

EXPIRES
1 JAN 2016

11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Donna Senn
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MMSICSAB-2_00007

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number 010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TAPITT-MSICSAB-2
Lot Number:	J2-MEB575126
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	250 µg/mL ea: Si, 50 µg/mL ea: Sn, 25 µg/mL ea: B, Se, 10 µg/mL ea: Sb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	10.00 ± 0.07 µg/mL	Boron, B	25.01 ± 0.17 µg/mL
Selenium, Se	25.00 ± 0.17 µg/mL	Silicon, Si	250.0 ± 1.9 µg/mL
Tin, Sn	50.01 ± 0.23 µg/mL		

Certified Density: 1.016 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	070514
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2 [\Sigma(s_i)^2]^{1/2}$ 2 = the coverage factor.
$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep cap tightly sealed when not in use. Store and use at 20 ± 4° C. Do not pipette from the container. Do not return removed aliquots to container.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 27, 2015

11.2 Expiration Date

EXPIRES
1 JUN 2016

11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

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Certificate Prepared By:

Donna Senn
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MTAPITTICPMS_00020

1222800

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CERTIFICATE OF ANALYSIS

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ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Rec'd 6/17/14 RJR

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TAPITT-MS-ICPMS
Lot Number:	H2-MEB532047
Matrix:	0.7% (v/v) HNO3
Value / Analyte(s):	200 µg/mL ea: Al, Ba, 100 µg/mL ea: B, Fe, Sr, 50 µg/mL ea: Co, Mn, Ni, V, Zn, 25 µg/mL ea: Cu, 20 µg/mL ea: Cr3, 5 µg/mL ea: Ag, Be, Cd, Tl, 4 µg/mL ea: As, 2 µg/mL ea: Pb, 1 µg/mL ea: Se

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	200.0 ± 1.0 µg/mL	Arsenic, As	4.002 ± 0.028 µg/mL	Barium, Ba	200.0 ± 1.0 µg/mL
Beryllium, Be	5.000 ± 0.029 µg/mL	Boron, B	100.0 ± 0.7 µg/mL	Cadmium, Cd	5.000 ± 0.024 µg/mL
Chromium+3, Cr3	20.00 ± 0.10 µg/mL	Cobalt, Co	50.02 ± 0.25 µg/mL	Copper, Cu	25.00 ± 0.17 µg/mL
Iron, Fe	100.0 ± 0.5 µg/mL	Lead, Pb	2.000 ± 0.010 µg/mL	Manganese, Mn	49.99 ± 0.22 µg/mL
Nickel, Ni	50.02 ± 0.24 µg/mL	Selenium, Se	1.001 ± 0.006 µg/mL	Silver, Ag	5.002 ± 0.032 µg/mL
Strontium, Sr	100.0 ± 0.6 µg/mL	Thallium, Tl	5.002 ± 0.033 µg/mL	Vanadium, V	50.00 ± 0.24 µg/mL
Zinc, Zn	50.02 ± 0.28 µg/mL				

Certified Density: 1.003 g/mL (measured at 20 ± 1 °C)

Assay Information:

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
B	ICP Assay	3107	070514
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Cd	ICP Assay	3108	080531
Cd	EDTA	928	928
Co	ICP Assay	3113	000630 Co
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3168	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty (±) = 2 [$\Sigma(s_i)^2$]^{½} 2 = the coverage factor.

[$\Sigma(s_i)^2$]^{½} = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirments for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2014

11.2 Expiration Date

EXPIRES
01/2015

11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

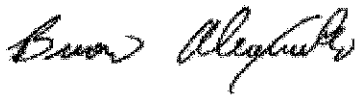
Certificate Prepared By:

Donna Senn
Product Documentation Technician



Certificate Approved By:

Brian Alexander
PhD., Technical Process Director



Certifying Officer:

Paul Gaines
PhD., Senior Technical Director



Reagent

MTAPITTMSA_00023

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CERTIFICATE OF ANALYSIS

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

rec. 11/13/14 SLB

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TAPITT-MS-A
Lot Number:	H2-MEB532044
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Ca, K, Mg, Na

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Calcium	5 000 ± 22 µg/mL	Magnesium	5 000 ± 23 µg/mL
Potassium	5 000 ± 22 µg/mL	Sodium	5 000 ± 22 µg/mL

Certified Density: 1.071 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty (±) = $2\ [\ \Sigma(s_i)^2\ ]^{1/2}$ 2 = the coverage factor.

$[\ \Sigma(s_i)^2\ ]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 05, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 01/2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Donna Senn
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MTAPITTMSC_00029

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

rec'd 11/3/14 SLB

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TAPITT-MS-C
Lot Number:	H2-MEB532046
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Si, 200 µg/mL ea: Sn, 100 µg/mL ea: Mo, Ti, 50 µg/mL ea: Sb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony	49.98 ± 0.38 µg/mL	Molybdenum	100.0 ± 0.5 µg/mL
Silicon	1 000 ± 7 µg/mL	Tin	200.0 ± 1.4 µg/mL
Titanium	100.0 ± 0.7 µg/mL		

Certified Density: 1.017 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Tl	ICP Assay	3162a	060808

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2\ [\ \Sigma(s_i)^2\ ]^{1/2}$ 2 = the coverage factor.
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4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 05, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 01 DEC 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Donna Senn
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

OP/PESTPCBRTS_00002

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 568719 **Lot No.:** A0100240

Description : OCP/PCB Surrogate Mix RTS

OCP/PCB Surrogate Mix RTS 0.2 µg/ml, Methanol, 100 ml/bottle

Container Size : 100 mL **Pkg Amt:** > 100 mL

Expiration Date : December 31, 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	0.2 µg/mL	+/- 0.0025	µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/- 0.0066	µg/mL	Unstressed
	Purity 98%		+/- 0.0086	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	0.2 µg/mL	+/- 0.0025	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot ER071509-01)		+/- 0.0067	µg/mL	Unstressed
	Purity 99%		+/- 0.0086	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Reagent

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sv benzoepyre_00001

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

5V Benzo pyrene primary
100313

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

			Lot #	
Part Number:	71016	**Solvent(s):**	44325	Methylene chloride
Lot Number:	100313			
Description:	Benzo(e)pyrene			
Expiration Date:	100318			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	1000			

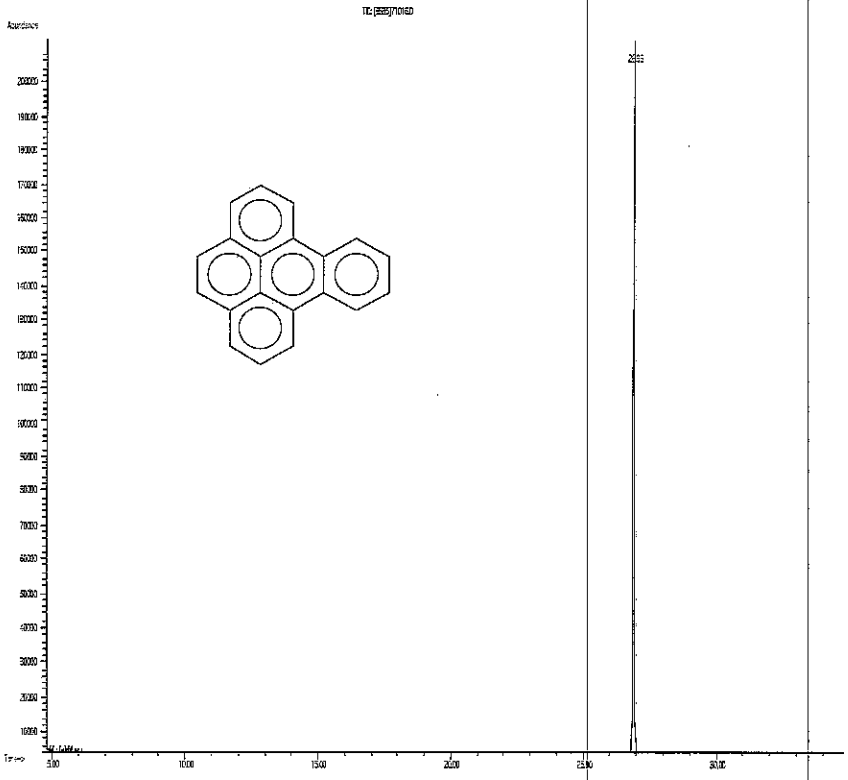
Paul Barron			100313
Formulated By:	Paul Barron		DATE
Pedro Rentas			100313
Reviewed By:	Pedro L. Rentas		DATE

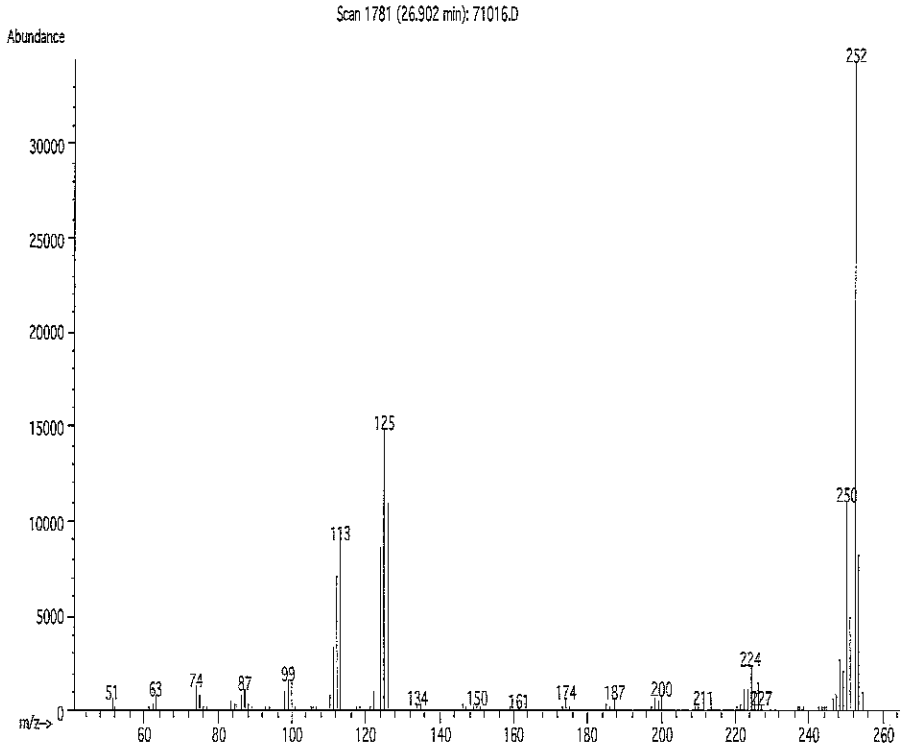
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to: 100.0 0.003 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty ± Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Benzo(e)pyrene	1016	012011	1000	99	0.2	0.10100	0.10125	1002.5	0.0042	00192-97-2	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





Reagent

SV2NAPAMINEs_00002

Certificate of Analysis

2-Naphthylamine Solution

Product Number: EPA-1135 **Page:** 1 of 1

Lot Number: CK-1617 **Lot Issue Date:** 20-May-2013 **Expiration Date:** 30-Jun-2017

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2-naphthylamine	000091-59-8	RM06488	1001 ± 5 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (15-30°C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Reagent

SVLVIntstd_00007

SV/VintSd lot A093676

RESTEK

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Bellefonte, PA 16823-8812
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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567684 **Lot No.:** A093676

Description : 8270 Internal Standard

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

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

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L., K=2)			
1	1,4-Dichlorobenzene-d4	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 3855-82-1			+/-	92.7158	µg/mL	Unstressed
	Purity 99%			+/-	101.3766	µg/mL	Stressed
2	Naphthalene-d8	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1146-65-2			+/-	92.7158	µg/mL	Unstressed
	Purity 99%			+/-	101.3766	µg/mL	Stressed
3	Acenaphthene-d10	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 15067-26-2			+/-	92.7163	µg/mL	Unstressed
	Purity 97%			+/-	101.3771	µg/mL	Stressed
4	Phenanthrene-d10	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1517-22-2			+/-	92.7158	µg/mL	Unstressed
	Purity 99%			+/-	101.3766	µg/mL	Stressed
5	Chrysene-d12	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 1719-03-5			+/-	92.7150	µg/mL	Unstressed
	Purity 98%			+/-	101.3758	µg/mL	Stressed
6	Perylene-d12	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1520-96-3			+/-	92.7158	µg/mL	Unstressed
	Purity 99%			+/-	101.3766	µg/mL	Stressed

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

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

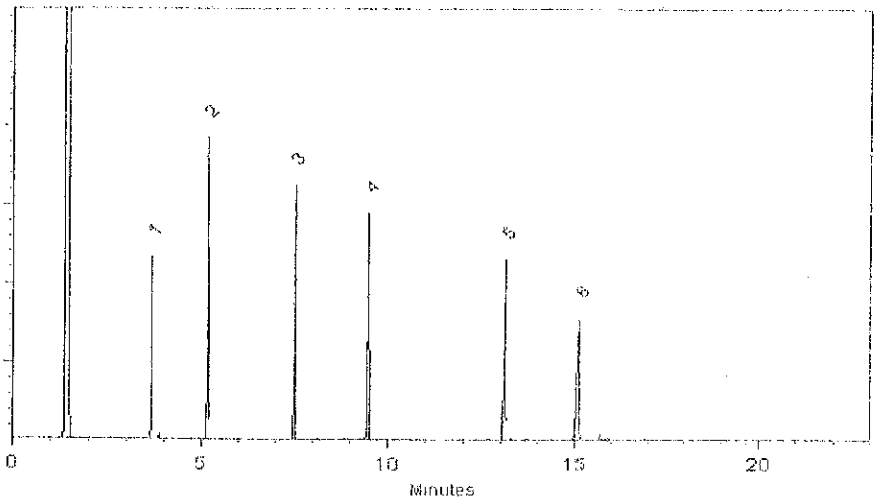
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 Balance: 1128342315

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

Reagent

SVLVlist12_00002

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Certificate #3222.02

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567679 **Lot No.:** A0102912

Description : 8270 List 2 / Std #2

8270 List 2 / Std #2 1,000 ug/ml, Methylene Chloride, 1 ml/ampul

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

Expiration Date : April 30, 2015 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl methanesulfonate		1,004.0	µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 66-27-3	(Lot MKBJ8702V)			+/- 31.2232	µg/mL	Unstressed
	Purity 99%				+/- 32.8038	µg/mL	Stressed
2	Ethyl methanesulfonate		1,007.0	µg/mL	+/- 5.9813	µg/mL	Gravimetric
	CAS # 62-50-0	(Lot FIN01-LVQL)			+/- 31.3165	µg/mL	Unstressed
	Purity 99%				+/- 32.9019	µg/mL	Stressed
3	Pentachloroethane		1,000.0	µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 76-01-7	(Lot 7GHYB)			+/- 31.0988	µg/mL	Unstressed
	Purity 99%				+/- 32.6732	µg/mL	Stressed
4	2,6-Dichlorophenol		1,000.0	µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 87-65-0	(Lot 03518LN)			+/- 31.0988	µg/mL	Unstressed
	Purity 99%				+/- 32.6732	µg/mL	Stressed
5	Hexachloropropene		1,000.0	µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 1888-71-7	(Lot 44391/3)			+/- 31.0988	µg/mL	Unstressed
	Purity 99%				+/- 32.6732	µg/mL	Stressed
6	Isosafrole (cis & trans)		999.6	µg/mL	+/- 5.9373	µg/mL	Gravimetric
	CAS # 120-58-1	(Lot MKBK3786V)			+/- 31.0863	µg/mL	Unstressed
	Purity 98%	83% trans; 17% cis			+/- 32.6601	µg/mL	Stressed
7	1-Chloronaphthalene		1,001.0	µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 90-13-1	(Lot MYWUK)			+/- 31.1299	µg/mL	Unstressed
	Purity 99%				+/- 32.7058	µg/mL	Stressed
8	1,4-Naphthoquinone		999.0	µg/mL	+/- 5.9338	µg/mL	Gravimetric
	CAS # 130-15-4	(Lot 3232134094)			+/- 31.0677	µg/mL	Unstressed
	Purity 99%				+/- 32.6405	µg/mL	Stressed

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

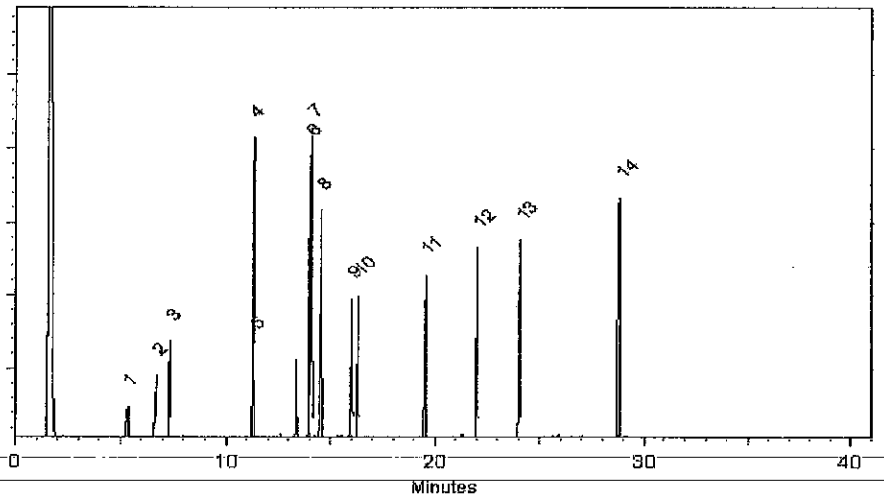
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician **Date Mixed:** 23-Apr-2014 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst **Date Passed:** 29-Apr-2014

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

Reagent

SVLVstd1_00026

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567672 **Lot No.:** A0101615

Description : 8270 List 1 / Std #1 MegaMix

8270 List 1 / Std #1 MegaMix 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 31, 2015 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBD4119V)	1,006.4 µg/mL	+/- 5.8510 µg/mL +/- 11.0182 µg/mL +/- 18.6887 µg/mL	Gravimetric Unstressed Stressed
2	Pyridine **CAS #** 110-86-1 **Purity** 99%	(Lot 02718MW)	1,001.7 µg/mL	+/- 5.8237 µg/mL +/- 10.9668 µg/mL +/- 18.6014 µg/mL	Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine **CAS #** 62-75-9 **Purity** 99%	(Lot 2179300)	1,001.4 µg/mL	+/- 5.8222 µg/mL +/- 10.9640 µg/mL +/- 18.5968 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 **Purity** 99%	(Lot 68396APV)	1,009.3 µg/mL	+/- 5.8682 µg/mL +/- 11.0505 µg/mL +/- 18.7435 µg/mL	Gravimetric Unstressed Stressed
5	Phenol **CAS #** 108-95-2 **Purity** 99%	(Lot SHBC6998V)	1,009.5 µg/mL	+/- 5.8690 µg/mL +/- 11.0522 µg/mL +/- 18.7463 µg/mL	Gravimetric Unstressed Stressed
6	Bis(2-chloroethyl)ether **CAS #** 111-44-4 **Purity** 99%	(Lot 45296HKV)	1,005.2 µg/mL	+/- 5.8440 µg/mL +/- 11.0051 µg/mL +/- 18.6664 µg/mL	Gravimetric Unstressed Stressed
7	2-Chlorophenol **CAS #** 95-57-8 **Purity** 99%	(Lot MKBD3900V)	1,006.4 µg/mL	+/- 5.8510 µg/mL +/- 11.0182 µg/mL +/- 18.6887 µg/mL	Gravimetric Unstressed Stressed
8	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBC1891V)	1,009.2 µg/mL	+/- 5.8673 µg/mL +/- 11.0489 µg/mL +/- 18.7407 µg/mL	Gravimetric Unstressed Stressed

25	Bis(2-chloroethoxy)methane		1,006.3	µg/mL	+/-	5.8507	µg/mL	Gravimetric
	CAS # 111-91-1	(Lot 2238100)			+/-	11.0177	µg/mL	Unstressed
	Purity 99%				+/-	18.6878	µg/mL	Stressed
26	2,4-Dichlorophenol		1,009.7	µg/mL	+/-	5.8705	µg/mL	Gravimetric
	CAS # 120-83-2	(Lot BCBH1617V)			+/-	11.0549	µg/mL	Unstressed
	Purity 99%				+/-	18.7509	µg/mL	Stressed
27	1,2,4-Trichlorobenzene		1,000.7	µg/mL	+/-	5.8179	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot 26896BM)			+/-	10.9558	µg/mL	Unstressed
	Purity 99%				+/-	18.5829	µg/mL	Stressed
28	Naphthalene		1,001.0	µg/mL	+/-	5.8196	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	10.9591	µg/mL	Unstressed
	Purity 99%				+/-	18.5884	µg/mL	Stressed
29	4-Chloroaniline		999.5	µg/mL	+/-	5.8112	µg/mL	Gravimetric
	CAS # 106-47-8	(Lot 12528PH)			+/-	10.9432	µg/mL	Unstressed
	Purity 98%				+/-	18.5615	µg/mL	Stressed
30	Hexachlorobutadiene		1,001.9	µg/mL	+/-	5.8249	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot K22W009)			+/-	10.9690	µg/mL	Unstressed
	Purity 98%				+/-	18.6052	µg/mL	Stressed
31	2-Methylnaphthalene		1,006.1	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)			+/-	11.0158	µg/mL	Unstressed
	Purity 96%				+/-	18.6846	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,004.2	µg/mL	+/-	5.8382	µg/mL	Gravimetric
	CAS # 59-50-7	(Lot STBC0769V)			+/-	10.9941	µg/mL	Unstressed
	Purity 99%				+/-	18.6479	µg/mL	Stressed
33	1-Methylnaphthalene		1,000.6	µg/mL	+/-	5.8173	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 5250.00-10)			+/-	10.9547	µg/mL	Unstressed
	Purity 99%				+/-	18.5810	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,002.1	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 95-94-3	(Lot 06024AIV)			+/-	10.9717	µg/mL	Unstressed
	Purity 99%				+/-	18.6098	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,009.5	µg/mL	+/-	5.8690	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 2220500)			+/-	11.0522	µg/mL	Unstressed
	Purity 99%				+/-	18.7463	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,003.6	µg/mL	+/-	5.8350	µg/mL	Gravimetric
	CAS # 88-06-2	(Lot MKBH7393V)			+/-	10.9881	µg/mL	Unstressed
	Purity 99%				+/-	18.6376	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,008.9	µg/mL	+/-	5.8658	µg/mL	Gravimetric
	CAS # 95-95-4	(Lot FHM01)			+/-	11.0461	µg/mL	Unstressed
	Purity 99%				+/-	18.7361	µg/mL	Stressed
38	2-Chloronaphthalene		1,004.8	µg/mL	+/-	5.8417	µg/mL	Gravimetric
	CAS # 91-58-7	(Lot FIJ01)			+/-	11.0007	µg/mL	Unstressed
	Purity 99%				+/-	18.6590	µg/mL	Stressed
39	Biphenyl		1,005.6	µg/mL	+/-	5.8464	µg/mL	Gravimetric
	CAS # 92-52-4	(Lot 1277976)			+/-	11.0095	µg/mL	Unstressed
	Purity 99%				+/-	18.6739	µg/mL	Stressed
40	2-Nitroaniline		1,007.1	µg/mL	+/-	5.8551	µg/mL	Gravimetric
	CAS # 88-74-4	(Lot MKBF9132V)			+/-	11.0259	µg/mL	Unstressed
	Purity 99%				+/-	18.7017	µg/mL	Stressed

57	Azobenzene		1,006.5	µg/mL	+/-	5.8516	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot 130305JLM)			+/-	11.0193	µg/mL	Unstressed
	Purity 99%				+/-	18.6906	µg/mL	Stressed
58	4-Bromophenyl phenyl ether		1,003.7	µg/mL	+/-	5.8353	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9887	µg/mL	Unstressed
	Purity 99%				+/-	18.6386	µg/mL	Stressed
59	Hexachlorobenzene		1,008.0	µg/mL	+/-	5.8606	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LB93343V)			+/-	11.0363	µg/mL	Unstressed
	Purity 99%				+/-	18.7193	µg/mL	Stressed
60	Pentachlorophenol		2,006.3	µg/mL	+/-	11.6648	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 130826JLM)			+/-	21.9664	µg/mL	Unstressed
	Purity 99%				+/-	37.2586	µg/mL	Stressed
61	Phenanthrene		1,004.4	µg/mL	+/-	5.8394	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBJ4205V)			+/-	10.9963	µg/mL	Unstressed
	Purity 99%				+/-	18.6516	µg/mL	Stressed
62	Anthracene		1,007.3	µg/mL	+/-	5.8565	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBK5208V)			+/-	11.0286	µg/mL	Unstressed
	Purity 99%				+/-	18.7064	µg/mL	Stressed
63	n-Hexadecane (C16)		1,001.9	µg/mL	+/-	5.8248	µg/mL	Gravimetric
	CAS # 544-76-3	(Lot SHBC3991V)			+/-	10.9690	µg/mL	Unstressed
	Purity 99%				+/-	18.6051	µg/mL	Stressed
64	Carbazole		1,001.8	µg/mL	+/-	5.8246	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9685	µg/mL	Unstressed
	Purity 98%				+/-	18.6043	µg/mL	Stressed
65	Di-n-butylphthalate		1,002.5	µg/mL	+/-	5.8286	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBG1851V)			+/-	10.9761	µg/mL	Unstressed
	Purity 99%				+/-	18.6172	µg/mL	Stressed
66	Fluoranthene		1,009.4	µg/mL	+/-	5.8685	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot 00828AJ)			+/-	11.0511	µg/mL	Unstressed
	Purity 98%				+/-	18.7444	µg/mL	Stressed
67	Pyrene		1,004.0	µg/mL	+/-	5.8371	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBJ0984V)			+/-	10.9921	µg/mL	Unstressed
	Purity 98%				+/-	18.6443	µg/mL	Stressed
68	Benzyl butyl phthalate		1,005.4	µg/mL	+/-	5.8452	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	11.0073	µg/mL	Unstressed
	Purity 99%				+/-	18.6701	µg/mL	Stressed
69	Benz(a)anthracene		1,006.4	µg/mL	+/-	5.8513	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	11.0188	µg/mL	Unstressed
	Purity 99%				+/-	18.6896	µg/mL	Stressed
70	Chrysene		1,003.2	µg/mL	+/-	5.8327	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot PR121912-01)			+/-	10.9837	µg/mL	Unstressed
	Purity 99%				+/-	18.6302	µg/mL	Stressed
71	Bis(2-ethylhexyl)phthalate		1,000.9	µg/mL	+/-	5.8190	µg/mL	Gravimetric
	CAS # 117-81-7	(Lot MKBH9511V)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5866	µg/mL	Stressed
72	Di-n-octyl phthalate		1,002.3	µg/mL	+/-	5.8272	µg/mL	Gravimetric
	CAS # 117-84-0	(Lot 1674300)			+/-	10.9733	µg/mL	Unstressed
	Purity 99%				+/-	18.6126	µg/mL	Stressed

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

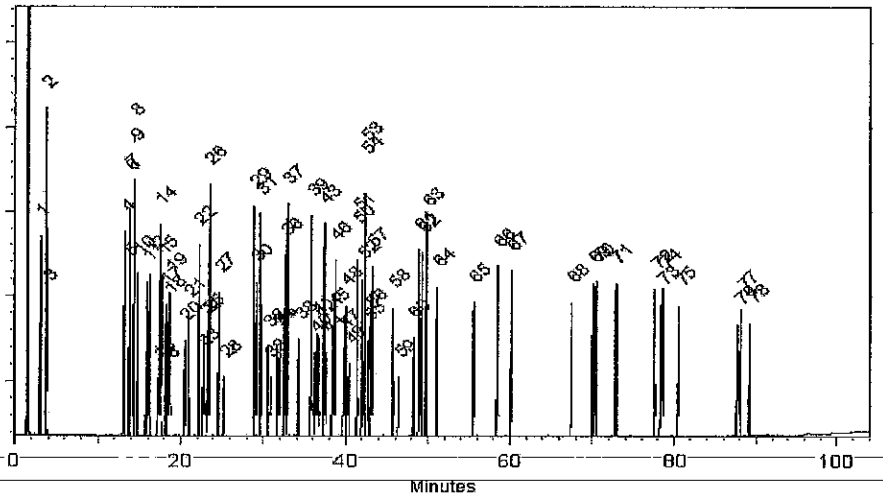
Carrier Gas:
hydrogen-constant pressure 10 psi

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



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

Rebecca Hansen

Date Mixed: 26-Feb-2014 **Balance:** 1128360905

Jodi E. Breon

Jodi E. Breon - QA Analyst

Date Passed: 04-Mar-2014

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

Reagent

SVLVstd1_00030

SVW 8270 New ASTd #1 Mega Mix A0107399

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1449141
1449142
1449140
1449136
1449138

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. : 569729 **Lot No.:** A0107399

Description : 8270 List 1 / Std #1 MegaMix (2015)

8270 List 1 / Std #1 MegaMix (2015) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : May 31, 2016 **Storage:** 10°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	1,4-Dioxane		1,004.4	µg/mL	+/-	5.8397	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBD8744V)			+/-	10.9969	µg/mL	Unstressed
	Purity 99%				+/-	18.6525	µg/mL	Stressed
2	Pyridine		1,001.0	µg/mL	+/-	5.8199	µg/mL	Gravimetric
	CAS # 110-86-1	(Lot SHBC7174V)			+/-	10.9596	µg/mL	Unstressed
	Purity 99%				+/-	18.5894	µg/mL	Stressed
3	N-Nitrosodimethylamine		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 62-75-9	(Lot 3213100)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
4	Aniline		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 62-53-3	(Lot K22Z462)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
5	Bis(2-chloroethyl)ether		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 111-44-4	(Lot 45296HKV)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed
6	2-Chlorophenol		1,000.8	µg/mL	+/-	5.8187	µg/mL	Gravimetric
	CAS # 95-57-8	(Lot MKBD3900V)			+/-	10.9575	µg/mL	Unstressed
	Purity 99%				+/-	18.5856	µg/mL	Stressed
7	Phenol		1,006.9	µg/mL	+/-	5.8542	µg/mL	Gravimetric
	CAS # 108-95-2	(Lot SHBC6998V)			+/-	11.0242	µg/mL	Unstressed
	Purity 99%				+/-	18.6989	µg/mL	Stressed

8	n-Decane CAS# [illegible]-18-5 Purity %	(Lot SHBF1587V)	1,000.5 µg/mL	+/- 5.8170 +/- 10.9542 +/- 18.5801	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,4-Dichlorobenzene CAS # [illegible]46-7 Purity %	(Lot MKBL3891V)	1,005.3 µg/mL	+/- 5.8449 +/- 11.0067 +/- 18.6692	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3-Dichlorobenzene CAS # [illegible]73-1 Purity %	(Lot BCBC1891V)	1,002.0 µg/mL	+/- 5.8257 +/- 10.9706 +/- 18.6079	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	1,2-Dichlorobenzene CAS # [illegible]50-1 Purity 99%	(Lot 68996CMV)	1,006.5 µg/mL	+/- 5.8519 +/- 11.0199 +/- 18.6915	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Benzyl alcohol CAS # [illegible]61-6 Purity 99%	(Lot SHBC1850V)	1,000.4 µg/mL	+/- 5.8164 +/- 10.9531 +/- 18.5782	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	2,2'-oxybis(1-chloropropane) CAS # [illegible]60-1 Purity 99%	(Lot 2-EAW-18-3)	1,000.0 µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	2-Methylphenol(o-cresol) CAS # 95-47 Purity 99%	(Lot SHBC1479V)	1,003.6 µg/mL	+/- 5.8350 +/- 10.9881 +/- 18.6376	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Hexachloroethane CAS # 67-72[illegible] Purity 99%	(Lot 4H3SF)	1,005.9 µg/mL	+/- 5.8484 +/- 11.0133 +/- 18.6804	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Acetophenone CAS # 98-86[illegible] Purity 99%	(Lot MKBR7156V)	1,002.7 µg/mL	+/- 5.8298 +/- 10.9783 +/- 18.6209	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	N-Nitroso-di-n-propylamine CAS # 621-647 Purity 99%	(Lot OPAGF)	1,003.9 µg/mL	+/- 5.8368 +/- 10.9914 +/- 18.6432	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	4-Methylphenol (p-cresol) CAS # 106-44-5 Purity 99%	(Lot 49396APV)	500.4 µg/mL	+/- 2.9161 +/- 5.4823 +/- 9.2949	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	3-Methylphenol (m-cresol) CAS # 108-394 Purity 99%	(Lot SHBD0627V)	500.2 µg/mL	+/- 2.9149 +/- 5.4801 +/- 9.2912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Nitrobenzene CAS # 98-95-3 Purity 99%	(Lot 65096APV)	1,001.1 µg/mL	+/- 5.8205 +/- 10.9607 +/- 18.5912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Isophorone CAS # 78-59-1 Purity 97%	(Lot 06705DE)	999.3 µg/mL	+/- 5.8100 +/- 10.9410 +/- 18.5577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	2-Nitrophenol CAS # 88-75-5 Purity 99%	(Lot BCBH7602V)	1,000.0 µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	2,4-Dimethylphenol CAS # 105-67-9 Purity 99%	(Lot 10165155)	1,003.2 µg/mL	+/- 5.8327 +/- 10.9837 +/- 18.6302	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Bis(2-chloroethoxy)methane		1,004.5 µg/mL	+/-	5.8402	µg/mL	Gravimetric
	CAS # 111-91-1	(Lot 317200)		+/-	10.9980	µg/mL	Unstressed
	Purity 99%			+/-	18.6544	µg/mL	Stressed
25	2,4-Dichlorophenol		1,000.0 µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2	(Lot BCBH1617V)		+/-	10.9487	µg/mL	Unstressed
	Purity 99%			+/-	18.5708	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,000.6 µg/mL	+/-	5.8176	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot 26896BM)		+/-	10.9553	µg/mL	Unstressed
	Purity 99%			+/-	18.5819	µg/mL	Stressed
27	Naphthalene		1,002.3 µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)		+/-	10.9739	µg/mL	Unstressed
	Purity 99%			+/-	18.6135	µg/mL	Stressed
28	2,6-Dichlorophenol		1,000.1 µg/mL	+/-	5.8147	µg/mL	Gravimetric
	CAS # 87-65-0	(Lot MKBN2776V)		+/-	10.9498	µg/mL	Unstressed
	Purity 99%			+/-	18.5726	µg/mL	Stressed
29	4-Chloroaniline		1,000.3 µg/mL	+/-	5.8157	µg/mL	Gravimetric
	CAS # 106-47-8	(Lot 12528PH)		+/-	10.9518	µg/mL	Unstressed
	Purity 98%			+/-	18.5761	µg/mL	Stressed
30	Hexachlorobutadiene		999.9 µg/mL	+/-	5.8135	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot K22W009)		+/-	10.9475	µg/mL	Unstressed
	Purity 98%			+/-	18.5688	µg/mL	Stressed
31	2-Methylnaphthalene		998.6 µg/mL	+/-	5.8059	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)		+/-	10.9333	µg/mL	Unstressed
	Purity 96%			+/-	18.5446	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,001.3 µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 59-50-7	(Lot STBC0769V)		+/-	10.9629	µg/mL	Unstressed
	Purity 99%			+/-	18.5949	µg/mL	Stressed
33	1-Methylnaphthalene		1,000.0 µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 525000-10)		+/-	10.9487	µg/mL	Unstressed
	Purity 99%			+/-	18.5708	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,000.2 µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 95-94-3	(Lot 06024AIV)		+/-	10.9509	µg/mL	Unstressed
	Purity 99%			+/-	18.5745	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,002.4 µg/mL	+/-	5.8280	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 3140300)		+/-	10.9750	µg/mL	Unstressed
	Purity 99%			+/-	18.6154	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,001.4 µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 88-06-2	(Lot MKBH7393V)		+/-	10.9640	µg/mL	Unstressed
	Purity 99%			+/-	18.5968	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,000.0 µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4	(Lot FHM01)		+/-	10.9487	µg/mL	Unstressed
	Purity 99%			+/-	18.5708	µg/mL	Stressed
38	2-Chloronaphthalene		1,000.0 µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7	(Lot FIJ01)		+/-	10.9487	µg/mL	Unstressed
	Purity 99%			+/-	18.5708	µg/mL	Stressed
39	Biphenyl		1,006.1 µg/mL	+/-	5.8496	µg/mL	Gravimetric
	CAS # 92-52-4	(Lot 1277976)		+/-	11.0155	µg/mL	Unstressed
	Purity 99%			+/-	18.6841	µg/mL	Stressed

40	2-Nitroaniline		1,004.6 µg/mL	+/-	5.8408	µg/mL	Gravimetric
	CAS # 88-74-4	(Lot MKBK7597V)		+/-	10.9991	µg/mL	Unstressed
	Purity 99%			+/-	18.6562	µg/mL	Stressed
41	Acenaphthylene		1,000.0 µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 208-96-8	(Lot ER030707-01)		+/-	10.9487	µg/mL	Unstressed
	Purity 99%			+/-	18.5708	µg/mL	Stressed
42	1,3-Dinitrobenzene		1,006.4 µg/mL	+/-	5.8513	µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBB1436V)		+/-	11.0188	µg/mL	Unstressed
	Purity 99%			+/-	18.6896	µg/mL	Stressed
43	Dimethylphthalate		1,001.0 µg/mL	+/-	5.8199	µg/mL	Gravimetric
	CAS # 131-11-3	(Lot 10117699)		+/-	10.9596	µg/mL	Unstressed
	Purity 99%			+/-	18.5894	µg/mL	Stressed
44	2,6-Dinitrotoluene		1,001.6 µg/mL	+/-	5.8234	µg/mL	Gravimetric
	CAS # 606-20-2	(Lot 1437483V)		+/-	10.9662	µg/mL	Unstressed
	Purity 99%			+/-	18.6005	µg/mL	Stressed
45	Acenaphthene		1,001.8 µg/mL	+/-	5.8246	µg/mL	Gravimetric
	CAS # 83-32-9	(Lot MKBP0384V)		+/-	10.9684	µg/mL	Unstressed
	Purity 99%			+/-	18.6042	µg/mL	Stressed
46	2,4-Dinitrophenol		2,008.7 µg/mL	+/-	11.6788	µg/mL	Gravimetric
	CAS # 51-28-5	(Lot MKBP5833V)		+/-	21.9927	µg/mL	Unstressed
	Purity 99%			+/-	37.3031	µg/mL	Stressed
47	Dibenzofuran		1,001.8 µg/mL	+/-	5.8246	µg/mL	Gravimetric
	CAS # 132-64-9	(Lot MKBK2375V)		+/-	10.9684	µg/mL	Unstressed
	Purity 99%			+/-	18.6042	µg/mL	Stressed
48	3-Nitroaniline		1,001.3 µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 99-09-2	(Lot MKBH5131V)		+/-	10.9629	µg/mL	Unstressed
	Purity 99%			+/-	18.5949	µg/mL	Stressed
49	2,4-Dinitrotoluene		1,001.7 µg/mL	+/-	5.8240	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690V)		+/-	10.9673	µg/mL	Unstressed
	Purity 99%			+/-	18.6024	µg/mL	Stressed
50	4-Nitrophenol		2,001.0 µg/mL	+/-	11.6340	µg/mL	Gravimetric
	CAS # 100-02-7	(Lot MKBK1842V)		+/-	21.9083	µg/mL	Unstressed
	Purity 99%			+/-	37.1601	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol		1,002.1 µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 58-90-2	(Lot FN10221307)		+/-	10.9717	µg/mL	Unstressed
	Purity 99%			+/-	18.6098	µg/mL	Stressed
52	Fluorene		1,000.5 µg/mL	+/-	5.8169	µg/mL	Gravimetric
	CAS # 86-73-7	(Lot 10174662)		+/-	10.9540	µg/mL	Unstressed
	Purity 98%			+/-	18.5797	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether		1,000.4 µg/mL	+/-	5.8164	µg/mL	Gravimetric
	CAS # 7005-72-3	(Lot MKBL1347V)		+/-	10.9531	µg/mL	Unstressed
	Purity 99%			+/-	18.5782	µg/mL	Stressed
54	n-Hexadecane (C16)		1,002.2 µg/mL	+/-	5.8269	µg/mL	Gravimetric
	CAS # 544-76-3	(Lot SHBD4570V)		+/-	10.9728	µg/mL	Unstressed
	Purity 99%			+/-	18.6116	µg/mL	Stressed
55	Diethylphthalate		1,001.1 µg/mL	+/-	5.8205	µg/mL	Gravimetric
	CAS # 84-66-2	(Lot MKBJ3578V)		+/-	10.9607	µg/mL	Unstressed
	Purity 99%			+/-	18.5912	µg/mL	Stressed

56	Azobenzene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot MKBS2559V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
57	Diphenylamine		1,713.4	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot 07525MF)			+/-	18.7595	µg/mL	Unstressed
	Purity 99%				+/-	31.8192	µg/mL	Stressed
58	4-Nitroaniline		1,002.8	µg/mL	+/-	5.8304	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	10.9794	µg/mL	Unstressed
	Purity 99%				+/-	18.6228	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,002.0	µg/mL	+/-	11.6398	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC06195V)			+/-	21.9193	µg/mL	Unstressed
	Purity 99%				+/-	37.1787	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
61	Hexachlorobenzene		1,002.1	µg/mL	+/-	5.8260	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LC04221V)			+/-	10.9711	µg/mL	Unstressed
	Purity 98%				+/-	18.6089	µg/mL	Stressed
62	Pentachlorophenol		2,000.3	µg/mL	+/-	11.6299	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 140626JLM)			+/-	21.9007	µg/mL	Unstressed
	Purity 99%				+/-	37.1471	µg/mL	Stressed
63	Phenanthrene		999.0	µg/mL	+/-	5.8083	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBL6906V)			+/-	10.9379	µg/mL	Unstressed
	Purity 98%				+/-	18.5524	µg/mL	Stressed
64	n-Octadecane (C18)		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
65	Anthracene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBK5208V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
66	Carbazole		1,000.1	µg/mL	+/-	5.8146	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9497	µg/mL	Unstressed
	Purity 98%				+/-	18.5725	µg/mL	Stressed
67	Di-n-butylphthalate		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBL8501V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
68	Fluoranthene		999.7	µg/mL	+/-	5.8123	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKBQ6360V)			+/-	10.9454	µg/mL	Unstressed
	Purity 98%				+/-	18.5652	µg/mL	Stressed
69	Pyrene		999.1	µg/mL	+/-	5.8089	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBJ0984V)			+/-	10.9390	µg/mL	Unstressed
	Purity 98%				+/-	18.5543	µg/mL	Stressed
70	Benzyl butyl phthalate		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
71	Benz(a)anthracene		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed

86-30-6 Nitrosodiphenylamine

72	Chrysene		1,006.5	µg/mL	+/- 5.8519	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot ER120810-02)			+/- 11.0199	µg/mL	Unstressed
	Purity 99%				+/- 18.6915	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate		1,000.5	µg/mL	+/- 5.8170	µg/mL	Gravimetric
	CAS # 117-81-7	(Lot MKBK2695V)			+/- 10.9542	µg/mL	Unstressed
	Purity 99%				+/- 18.5801	µg/mL	Stressed
74	Di-n-octyl phthalate		1,002.1	µg/mL	+/- 5.8263	µg/mL	Gravimetric
	CAS # 117-84-0	(Lot 3128600)			+/- 10.9717	µg/mL	Unstressed
	Purity 99%				+/- 18.6098	µg/mL	Stressed
75	Benzo(b)fluoranthene		1,000.1	µg/mL	+/- 5.8147	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot ER03101401)			+/- 10.9498	µg/mL	Unstressed
	Purity 99%				+/- 18.5726	µg/mL	Stressed
76	Benzo(k)fluoranthene		1,003.3	µg/mL	+/- 5.8333	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot ER041513-01)			+/- 10.9848	µg/mL	Unstressed
	Purity 99%				+/- 18.6321	µg/mL	Stressed
77	Benzo(a)pyrene		1,001.3	µg/mL	+/- 5.8216	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot ER071309-02)			+/- 10.9629	µg/mL	Unstressed
	Purity 99%				+/- 18.5949	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene		1,000.6	µg/mL	+/- 5.8176	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot ER082107-02)			+/- 10.9553	µg/mL	Unstressed
	Purity 99%				+/- 18.5819	µg/mL	Stressed
79	Dibenz(a,h)anthracene		1,004.4	µg/mL	+/- 5.8397	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/- 10.9969	µg/mL	Unstressed
	Purity 99%				+/- 18.6525	µg/mL	Stressed
80	Benzo(g,h,i)perylene		1,000.0	µg/mL	+/- 5.8141	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot ER020708-08)			+/- 10.9487	µg/mL	Unstressed
	Purity 99%				+/- 18.5708	µg/mL	Stressed

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

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

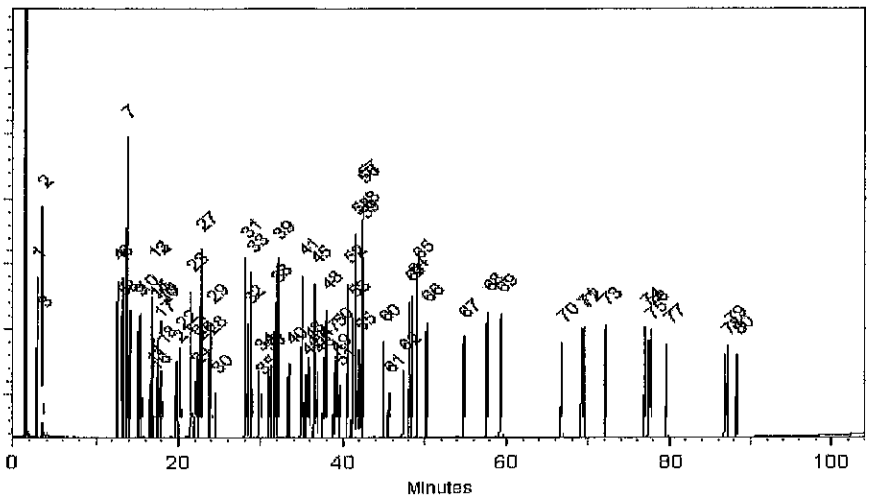
Carrier Gas:
hydrogen-constant pressure 10 psi

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician

Date Mixed: 24-Nov-2014 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 05-Dec-2014

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

Reagent

SVLVstd10_00001

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

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. : 569731 **Lot No.:** A0107943

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene		2,001.4 µg/mL	+/- 11.6363	µg/mL	Gravimetric
	CAS # 95-13-6	(Lot MKBP3098V)		+/- 22.5687	µg/mL	Unstressed
	Purity 99%			+/- 25.9700	µg/mL	Stressed
2	Benzoic acid		2,005.8 µg/mL	+/- 11.6619	µg/mL	Gravimetric
	CAS # 65-85-0	(Lot MKBL6689V)		+/- 22.6183	µg/mL	Unstressed
	Purity 99%			+/- 26.0271	µg/mL	Stressed

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

Reagent

SVLVstd11_00001

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

Catalog No. : 569732 **Lot No.:** A0108035

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde		2,000.6 µg/mL		+/- 11.6317	µg/mL	Gravimetric
	CAS # 100-52-7	(Lot SHBD3510V)			+/- 64.1305	µg/mL	Unstressed
	Purity 99%				+/- 74.5493	µg/mL	Stressed
2	epsilon-Caprolactam		2,001.2 µg/mL		+/- 11.6351	µg/mL	Gravimetric
	CAS # 105-60-2	(Lot I16X016)			+/- 64.1498	µg/mL	Unstressed
	Purity 99%				+/- 74.5716	µg/mL	Stressed
3	Atrazine		2,004.3 µg/mL		+/- 11.6532	µg/mL	Gravimetric
	CAS # 1912-24-9	(Lot TZ8ED)			+/- 64.2490	µg/mL	Unstressed
	Purity 98%				+/- 74.6870	µg/mL	Stressed

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

Reagent

SVLVstd2_00012

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

Catalog No. : 567673 **Lot No.:** A0100824

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : July 31, 2015 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam		2,004.8	µg/mL	+/- 11.7653	µg/mL	Gravimetric
	CAS # 105-60-2	(Lot 10000218)			+/- 22.0081	µg/mL	Unstressed
	Purity 99%				+/- 37.2650	µg/mL	Stressed
2	Atrazine		2,000.4	µg/mL	+/- 11.7393	µg/mL	Gravimetric
	CAS # 1912-24-9	(Lot TZ8ED)			+/- 21.9596	µg/mL	Unstressed
	Purity 98%				+/- 37.1828	µg/mL	Stressed
3	Benzidine		2,010.4	µg/mL	+/- 11.7982	µg/mL	Gravimetric
	CAS # 92-87-5	(Lot 140107JLM)			+/- 22.0696	µg/mL	Unstressed
	Purity 99%				+/- 37.3691	µg/mL	Stressed
4	3,3'-Dichlorobenzidine		2,000.0	µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 91-94-1	(Lot 140109JLM)			+/- 21.9554	µg/mL	Unstressed
	Purity 99%				+/- 37.1758	µg/mL	Stressed

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

Reagent

SVLVstd5(7)_00001

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

Catalog No. : 568725 **Lot No.:** A0101573

Description : 8270 List 1/ Std #7 Diphenylamine

8270 List 1/ Std #7 Diphenylamine 1,710 µg/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 28, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diphenylamine		1,706.8 µg/mL	+/- 10.0165	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot 07525MF)		+/- 18.7368	µg/mL	Unstressed
	Purity 99%			+/- 31.7258	µg/mL	Stressed

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

Specific Reference Material Notes:

N-nitrosodiphenylamine 2000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 1710 ug/mL.

Tech Tips:

N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Reagent

SVLVstd8_00003

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

Catalog No. : 568724 **Lot No.:** A0103145

Description : 8270 List 1/ Std #8

8270 List 1/ Std #8 2,000 µg/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : May 31, 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzaldehyde **CAS #** 100-52-7 (Lot SHBC6366V) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 64.1312 µg/mL +/- 74.5440 µg/mL	Gravimetric Unstressed Stressed
2	Indene **CAS #** 95-13-6 (Lot MKBH4027V) **Purity** 99%	2,012.0 µg/mL	+/- 11.8075 µg/mL +/- 64.5160 µg/mL +/- 74.9913 µg/mL	Gravimetric Unstressed Stressed
3	Benzoic acid **CAS #** 65-85-0 (Lot MKBG9391V) **Purity** 99%	2,003.0 µg/mL	+/- 11.7547 µg/mL +/- 64.2274 µg/mL +/- 74.6558 µg/mL	Gravimetric Unstressed Stressed

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

Reagent

SVLVstd9_00001

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

Catalog No. : 569730 **Lot No.:** A0108709

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : July 31, 2016 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzidine **CAS #** 92-87-5 (Lot 141208JLM) **Purity** 99%	2,006.6 µg/mL	+/- 11.6665 µg/mL +/- 21.9697 µg/mL +/- 37.2641 µg/mL	Gravimetric Unstressed Stressed
2	3,3'-Dichlorobenzidine **CAS #** 91-94-1 (Lot 141205JLM) **Purity** 99%	2,001.0 µg/mL	+/- 11.6340 µg/mL +/- 21.9083 µg/mL +/- 37.1601 µg/mL	Gravimetric Unstressed Stressed

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

Reagent

SVLVSURRSPK_00003

7 08636
7 08635

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5 VIALS SHIPPED

Catalog No. : 567685 **Lot No.:** A093638

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L., K=2)		
1	2-Fluorophenol	5,000.0	µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 367-12-4			+/- 132.9492	µg/mL	Unstressed
	Purity 99%			+/- 163.4029	µg/mL	Stressed
2	Phenol-d5	5,000.0	µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-62-2			+/- 132.9492	µg/mL	Unstressed
	Purity 99%			+/- 163.4029	µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0	µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-60-0			+/- 132.9492	µg/mL	Unstressed
	Purity 99%			+/- 163.4029	µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0	µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 321-60-8			+/- 132.9492	µg/mL	Unstressed
	Purity 99%			+/- 163.4029	µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0	µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 118-79-6			+/- 132.9492	µg/mL	Unstressed
	Purity 99%			+/- 163.4029	µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0	µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 1718-51-0			+/- 132.9492	µg/mL	Unstressed
	Purity 99%			+/- 163.4029	µg/mL	Stressed
Solvent:	Methylene Chloride					
	CAS # 75-09-2					
	Purity 99%					

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

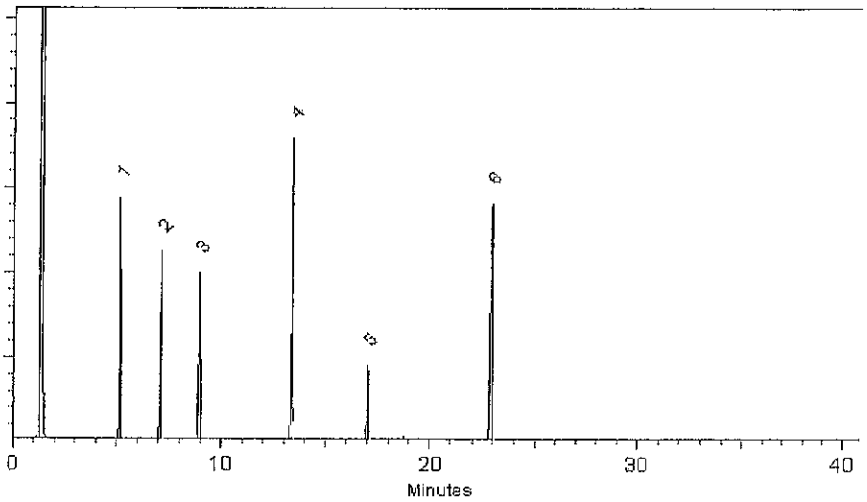
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Diane Shaffer - QAAnalyst

Date Passed: 22-Feb-2013 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
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Reagent

SVLVSURRSPK_00011

SV 8270 SURROGATE

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Catalog No. : 567685 **Lot No.:** A0103615

CT # 1310492
91
90
89
88

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

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

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	2-Fluorophenol		5,003.5	µg/mL	+/-	29.0892	µg/mL	Gravimetric
	CAS # 367-12-4	(Lot STBC5591V)			+/-	124.6713	µg/mL	Unstressed
	Purity 99%				+/-	156.7818	µg/mL	Stressed
2	Phenol-d5		5,002.9	µg/mL	+/-	29.0860	µg/mL	Gravimetric
	CAS # 4165-62-2	(Lot M387P4)			+/-	124.6575	µg/mL	Unstressed
	Purity 99%				+/-	156.7644	µg/mL	Stressed
3	Nitrobenzene-d5		5,001.4	µg/mL	+/-	29.0773	µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-20474)			+/-	124.6201	µg/mL	Unstressed
	Purity 99%				+/-	156.7174	µg/mL	Stressed
4	2-Fluorobiphenyl		5,004.4	µg/mL	+/-	29.0947	µg/mL	Gravimetric
	CAS # 321-60-8	(Lot E11Y047)			+/-	124.6949	µg/mL	Unstressed
	Purity 99%				+/-	156.8114	µg/mL	Stressed
5	2,4,6-Tribromophenol		5,003.9	µg/mL	+/-	29.0914	µg/mL	Gravimetric
	CAS # 118-79-6	(Lot 29699MJV)			+/-	124.6805	µg/mL	Unstressed
	Purity 99%				+/-	156.7934	µg/mL	Stressed
6	p-Terphenyl-d14		5,007.1	µg/mL	+/-	29.1100	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-20577)			+/-	124.7604	µg/mL	Unstressed
	Purity 99%				+/-	156.8938	µg/mL	Stressed

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Reagent

SVNNITROPYROs_00015

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CERTIFIED WEIGHT REPORT

Part Number: 70451
Lot Number: 060514
Description: N-Nitrosopyrrolidine

Expiration Date: 060517
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 1000

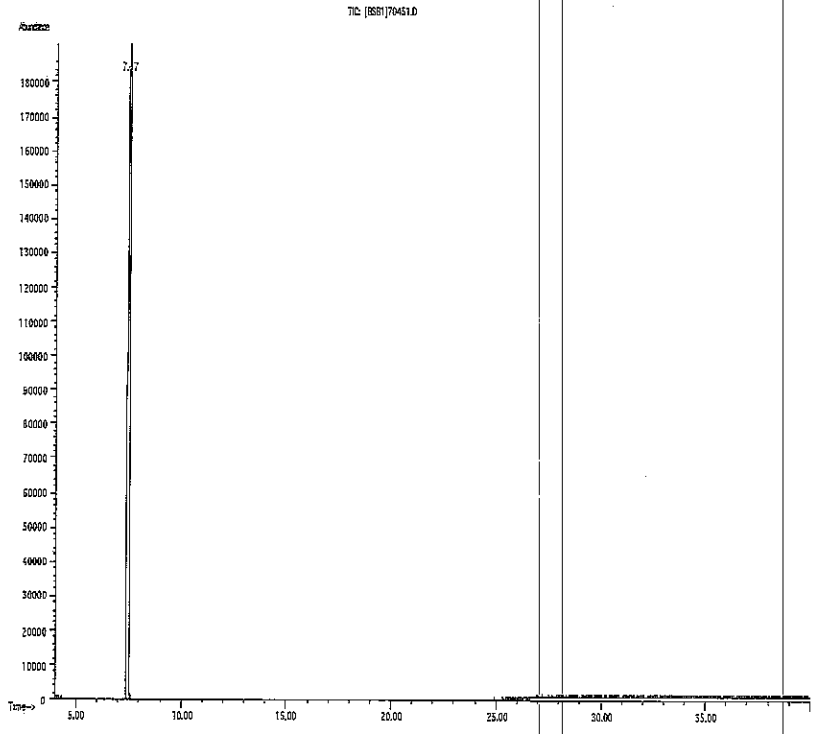
Lot #
Solvent(s): 62418 Methylene chloride

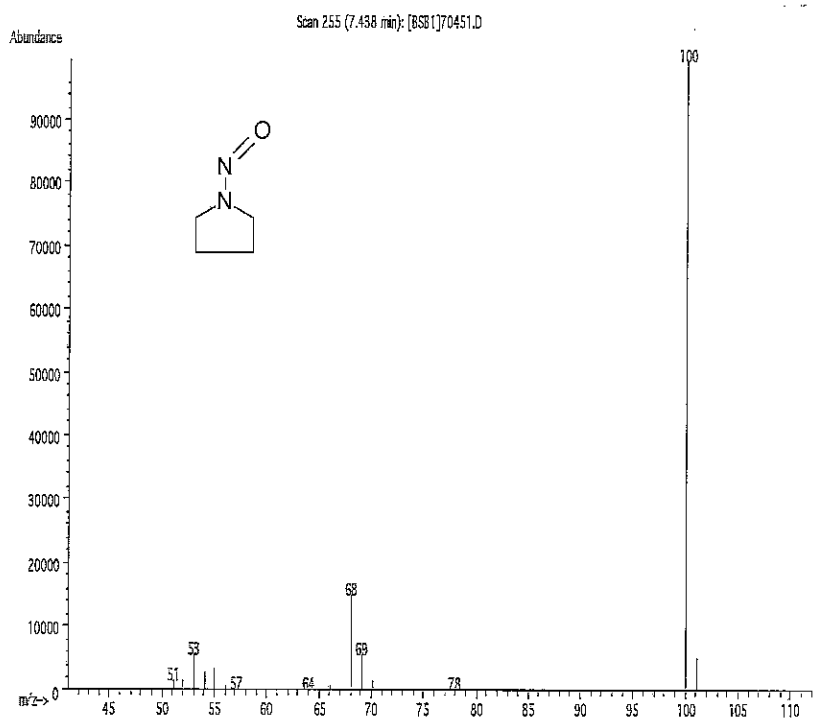
Formulated By:	Paul Barron	060514 DATE
Reviewed By:	Pedro L. Rentas	060514 DATE

Weight(s) shown below were combined and diluted to: 25.0 5E-05 Balance Uncertainty 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. N-Nitrosopyrrolidine	451	04025BM	1000	99	0.2	0.02524	0.02530	1002.2	0.00565	00930-55-2	N/A	orl-rat 900mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





Reagent

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

Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 **Purity** 99%	2,000.0 µg/mL	+/- 13.8716 +/- 25.2661 +/- 28.2336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 **Purity** 99%	1,999.8 µg/mL	+/- 13.9993 +/- 25.3348 +/- 28.2945	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 **Purity** 99%	2,000.1 µg/mL	+/- 13.9625 +/- 25.3168 +/- 28.2792	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 **Purity** 99%	2,000.0 µg/mL	+/- 13.3773 +/- 24.9981 +/- 27.9940	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 **Purity** 99%	2,000.1 µg/mL	+/- 14.2856 +/- 25.4963 +/- 28.4399	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 **Purity** 99%	2,000.0 µg/mL	+/- 13.2200 +/- 24.9143 +/- 27.9191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 **Purity** 99%	2,000.0 µg/mL	+/- 13.5174 +/- 25.0735 +/- 28.0614	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 **Purity** 99%	1,999.9 µg/mL	+/- 13.1170 +/- 24.8590 +/- 27.8696	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260GAS1ST_00083

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

Catalog No. : 567645 **Lot No.:** A0105755

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : September 30, 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot Q16A-86) **Purity** 99%	1,996.9 µg/mL	+/- 16.4920 µg/mL +/- 25.3820 µg/mL +/- 28.4359 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBC8470V) **Purity** 99%	2,003.6 µg/mL	+/- 13.5945 µg/mL +/- 23.6556 µg/mL +/- 26.9268 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 17542) **Purity** 99%	2,001.1 µg/mL	+/- 27.3546 µg/mL +/- 33.4976 µg/mL +/- 35.8765 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBD5808V) **Purity** 99%	1,999.9 µg/mL	+/- 23.4547 µg/mL +/- 30.3891 µg/mL +/- 32.9901 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	1,998.7 µg/mL	+/- 30.0266 µg/mL +/- 35.7004 µg/mL +/- 37.9363 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot SHBD1717V) **Purity** 99%	2,000.1 µg/mL	+/- 18.0935 µg/mL +/- 26.4730 µg/mL +/- 29.4228 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot Q9B-58) **Purity** 99%	1,999.1 µg/mL	+/- 17.9677 µg/mL +/- 26.3801 µg/mL +/- 29.3364 µg/mL	Gravimetric Unstressed Stressed
8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 (Lot SHBD5121V) **Purity** 99%	2,001.1 µg/mL	+/- 24.2299 µg/mL +/- 30.9989 µg/mL +/- 33.5557 µg/mL	Gravimetric Unstressed Stressed

Reagent

VOA8260GAS1ST_00096

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Reference Material Producer
Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

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. : 569722 **Lot No.:** A0108198

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : January 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot Q167-08) **Purity** 99%	2,504.8 µg/mL	+/- 21.9788 µg/mL +/- 32.6918 µg/mL +/- 36.4326 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBC8470V) **Purity** 99%	2,509.8 µg/mL	+/- 19.6377 µg/mL +/- 31.2039 µg/mL +/- 35.1185 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 17542) **Purity** 99%	2,515.3 µg/mL	+/- 22.1368 µg/mL +/- 32.8734 µg/mL +/- 36.6254 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBD5808V) **Purity** 99%	2,498.0 µg/mL	+/- 23.6713 µg/mL +/- 33.8065 µg/mL +/- 37.4176 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,503.7 µg/mL	+/- 30.8470 µg/mL +/- 39.2011 µg/mL +/- 42.3685 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot SHBD1717V) **Purity** 99%	2,507.7 µg/mL	+/- 21.9404 µg/mL +/- 32.6873 µg/mL +/- 36.4370 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot Q9B-58) **Purity** 99%	2,500.7 µg/mL	+/- 26.0039 µg/mL +/- 35.4965 µg/mL +/- 38.9583 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.9	µg/mL	+/-	21.5914	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBD5121V)			+/-	32.4119	µg/mL	Unstressed
	Purity 99%				+/-	36.1734	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

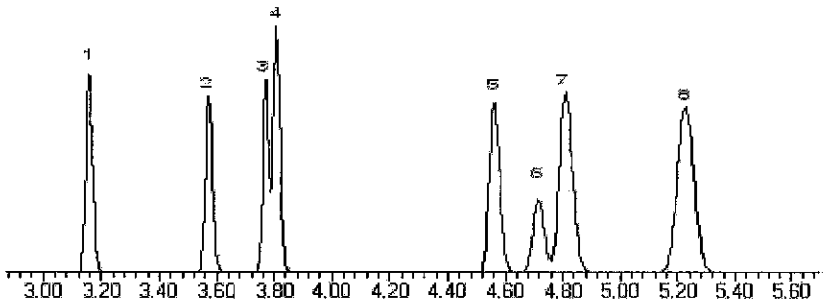
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Kendra Swope - Mix Technician

Date Mixed: 08-Jan-2015 **Balance:** 1125113331

Jennifer L. Pollino - QC Analyst

Date Passed: 14-Jan-2015

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

Reagent

VOA8260GAS1ST_00098

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569722 **Lot No.:** A0110070

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot Q167-08) **Purity** 99%	2,499.9 µg/mL	+/- 17.9502 µg/mL +/- 30.0934 µg/mL +/- 34.1055 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBC8470V) **Purity** 99%	2,500.1 µg/mL	+/- 17.2963 µg/mL +/- 29.7101 µg/mL +/- 33.7686 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 17542) **Purity** 99%	2,500.2 µg/mL	+/- 16.5642 µg/mL +/- 29.2906 µg/mL +/- 33.4004 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBF3387V) **Purity** 99%	2,500.0 µg/mL	+/- 17.0072 µg/mL +/- 29.5416 µg/mL +/- 33.6200 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,499.8 µg/mL	+/- 18.9451 µg/mL +/- 30.6969 µg/mL +/- 34.6391 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot SHBD1717V) **Purity** 99%	2,500.3 µg/mL	+/- 17.6395 µg/mL +/- 29.9122 µg/mL +/- 33.9470 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot Q9B-58) **Purity** 99%	2,500.2 µg/mL	+/- 16.7318 µg/mL +/- 29.3854 µg/mL +/- 33.4835 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,500.3	µg/mL	+/-	16.5866	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBD5121V)			+/-	29.3037	µg/mL	Unstressed
	Purity 99%				+/-	33.4120	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

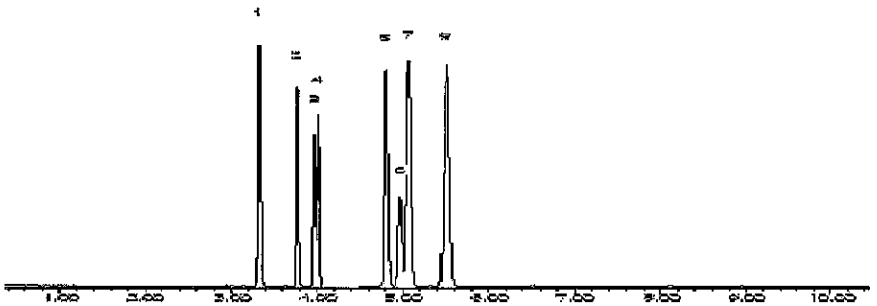
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

F. Joseph Tallon - Mix Technician

Date Mixed: 02-Apr-2015 **Balance:** B251644995

Tyler Brown - QA Analyst

Date Passed: 08-Apr-2015

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Reagent

VOA8260GAS2ND_00095

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

Catalog No. : 569722.sec **Lot No.:** A0108226

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : January 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,494.8 µg/mL	+/- 23.5521	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 19630)		+/- 33.7009	µg/mL	Unstressed
	Purity 99%		+/- 37.3133	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,505.6 µg/mL	+/- 26.4745	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 35.8743	µg/mL	Unstressed
	Purity 99%		+/- 39.3156	µg/mL	Stressed
3	Vinyl chloride	2,499.8 µg/mL	+/- 25.3054	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 34.9816	µg/mL	Unstressed
	Purity 99%		+/- 38.4872	µg/mL	Stressed
4	1,3-Butadiene	2,505.4 µg/mL	+/- 23.1450	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 18349)		+/- 33.4914	µg/mL	Unstressed
	Purity 99%		+/- 37.1536	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,495.4 µg/mL	+/- 25.3762	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 35.0038	µg/mL	Unstressed
	Purity 99%		+/- 38.4957	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,499.5 µg/mL	+/- 21.8687	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot Q18B-13)		+/- 32.5806	µg/mL	Unstressed
	Purity 99%		+/- 36.3180	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,511.0 µg/mL	+/- 21.9690	µg/mL	Gravimetric
	CAS # 75-43-4.SEC (Lot SHBC0858V)		+/- 32.7299	µg/mL	Unstressed
	Purity 99%		+/- 36.4846	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,504.4	µg/mL	+/-	25.2390	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot Q158-102)			+/-	34.9647	µg/mL	Unstressed
	Purity 99%				+/-	38.4843	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

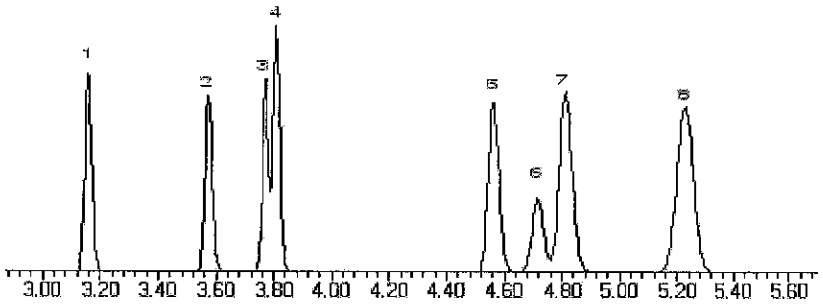
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Michael J Maye

Date Mixed: 12-Jan-2015 **Balance:** 1127510105

Jennifer L Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 14-Jan-2015

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VOA8260GAS2ND_00096

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Catalog No. : 569722.sec **Lot No.:** A0108226

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : January 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,494.8 µg/mL	+/- 23.5521	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 19630)		+/- 33.7009	µg/mL	Unstressed
	Purity 99%		+/- 37.3133	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,505.6 µg/mL	+/- 26.4745	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 35.8743	µg/mL	Unstressed
	Purity 99%		+/- 39.3156	µg/mL	Stressed
3	Vinyl chloride	2,499.8 µg/mL	+/- 25.3054	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 34.9816	µg/mL	Unstressed
	Purity 99%		+/- 38.4872	µg/mL	Stressed
4	1,3-Butadiene	2,505.4 µg/mL	+/- 23.1450	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 18349)		+/- 33.4914	µg/mL	Unstressed
	Purity 99%		+/- 37.1536	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,495.4 µg/mL	+/- 25.3762	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 35.0038	µg/mL	Unstressed
	Purity 99%		+/- 38.4957	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,499.5 µg/mL	+/- 21.8687	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot Q18B-13)		+/- 32.5806	µg/mL	Unstressed
	Purity 99%		+/- 36.3180	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,511.0 µg/mL	+/- 21.9690	µg/mL	Gravimetric
	CAS # 75-43-4.SEC (Lot SHBC0858V)		+/- 32.7299	µg/mL	Unstressed
	Purity 99%		+/- 36.4846	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,504.4	µg/mL	+/-	25.2390	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot Q158-102)			+/-	34.9647	µg/mL	Unstressed
	Purity 99%				+/-	38.4843	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

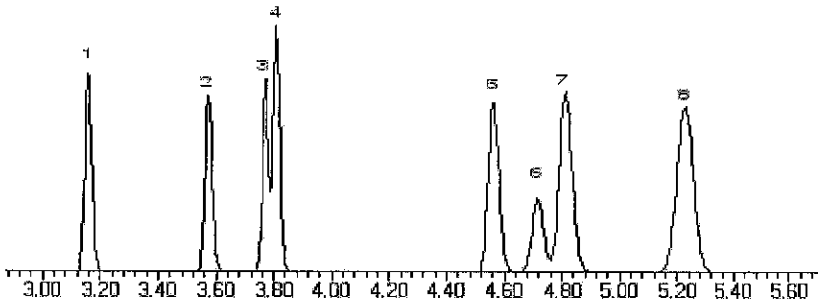
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Michael J Maye

Date Mixed: 12-Jan-2015 **Balance:** 1127510105

Jennifer L Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 14-Jan-2015

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

Reagent

VOA8260INTRES_00051

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567649 **Lot No.:** A093504

Description : 8260 Internal Standard

8260 Internal Standard 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : February 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 25725-11-5		+/- 110.6323	µg/mL	Unstressed
	Purity 99%		+/- 111.0833	µg/mL	Stressed
2	Fluorobenzene	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 462-06-6		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed
3	1,4-Dioxane-d8	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 17647-74-4		+/- 110.6323	µg/mL	Unstressed
	Purity 99%		+/- 111.0833	µg/mL	Stressed
4	Chlorobenzene-d5	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 3114-55-4		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed
5	1,4-Dichlorobenzene-d4	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 3855-82-1		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260INTRES_00086

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

Catalog No. : 567649 **Lot No.:** A093504

Description : 8260 Internal Standard

8260 Internal Standard 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : February 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 25725-11-5		+/- 110.6323	µg/mL	Unstressed
	Purity 99%		+/- 111.0833	µg/mL	Stressed
2	Fluorobenzene	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 462-06-6		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed
3	1,4-Dioxane-d8	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 17647-74-4		+/- 110.6323	µg/mL	Unstressed
	Purity 99%		+/- 111.0833	µg/mL	Stressed
4	Chlorobenzene-d5	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 3114-55-4		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed
5	1,4-Dichlorobenzene-d4	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 3855-82-1		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260INTRES_00092

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Catalog No. : 567649 **Lot No.:** A0104742

Description : 8260 Internal Standard

8260 Internal Standard 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : July 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol		5,003.0	µg/mL	+/- 29.0879	µg/mL	Gravimetric
	CAS # 25725-11-5	(Lot I201P5)			+/- 106.1005	µg/mL	Unstressed
	Purity 99%				+/- 106.5713	µg/mL	Stressed
2	Fluorobenzene		250.8	µg/mL	+/- 1.4795	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot 1380033)			+/- 5.3247	µg/mL	Unstressed
	Purity 99%				+/- 5.3483	µg/mL	Stressed
3	1,4-Dioxane-d8		5,009.6	µg/mL	+/- 29.1262	µg/mL	Gravimetric
	CAS # 17647-74-4	(Lot 11C-596)			+/- 106.2405	µg/mL	Unstressed
	Purity 99%				+/- 106.7119	µg/mL	Stressed
4	Chlorobenzene-d5		250.8	µg/mL	+/- 1.4795	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-22736)			+/- 5.3247	µg/mL	Unstressed
	Purity 99%				+/- 5.3483	µg/mL	Stressed
5	1,4-Dichlorobenzene-d4		250.8	µg/mL	+/- 1.4795	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)			+/- 5.3247	µg/mL	Unstressed
	Purity 99%				+/- 5.3483	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260KET1ST_00026

RESTEK

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VOA8260KET1ST_00030

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VOA8260MEGA1_00021

RESTEK

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

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567641 **Lot No.:** A093581

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 **Purity** 97%	1,999.9 µg/mL	+/- 11.6279 +/- 44.2519 +/- 44.4323	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 **Purity** 99%	20,000.0 µg/mL	+/- 116.2756 +/- 442.5291 +/- 444.3332	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Methyl acetate **CAS #** 79-20-9 **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 +/- 221.2646 +/- 222.1666	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Carbon disulfide **CAS #** 75-15-0 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-54-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-34-3			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 594-20-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-60-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
17	chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-82-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
23	1,1-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 563-58-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
24	carbon tetrachloride	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 56-23-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
25	n-Heptane (C7)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-82-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-01-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-27-4			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 10061-02-6			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 124-48-1			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-57-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 95-63-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 99-87-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-12-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

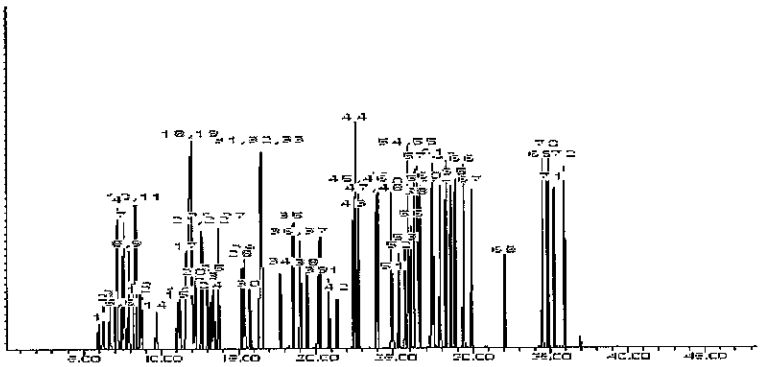
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** B251644995

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

Reagent

VOA8260MEGA1_00025

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Certificate of Analysis

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

Catalog No. : 567641 **Lot No.:** A093581

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 **Purity** 97%	1,999.9 µg/mL	+/- 11.6279 +/- 44.2519 +/- 44.4323	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 **Purity** 99%	20,000.0 µg/mL	+/- 116.2756 +/- 442.5291 +/- 444.3332	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 -/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Methyl acetate **CAS #** 79-20-9 **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 +/- 221.2646 +/- 222.1666	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Carbon disulfide **CAS #** 75-15-0 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-54-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-34-3			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 594-20-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-60-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
17	chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-82-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
23	1,1-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 563-58-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
24	carbon tetrachloride	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 56-23-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
25	n-Heptane (C7)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-82-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-01-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-27-4			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 10061-02-6			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 124-48-1			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-57-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 95-63-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 99-87-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-12-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

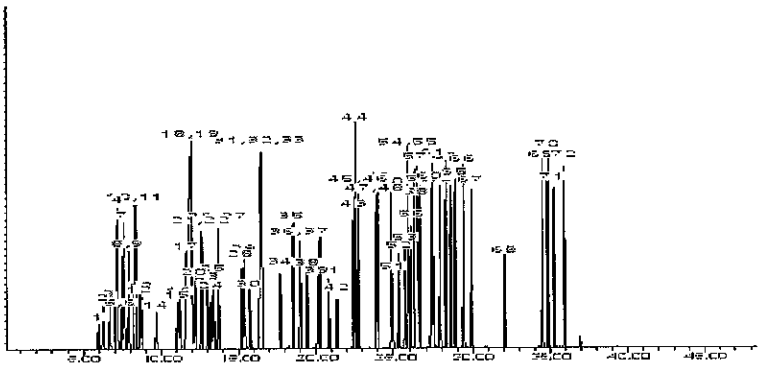
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** B251644995

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

Reagent

VOA8260SURRES_00046

RESTEK

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567650 **Lot No.:** A093505

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : February 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)		
1	Dibromofluoromethane	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 1868-53-7		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 17060-07-0		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
3	Toluene-d8	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 2037-26-5		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 460-00-4		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260SURRES_00089

RESTEK® CERTIFIED REFERENCE MATERIAL

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Certificate #3222.02

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. : 567650 **Lot No.:** A0102817

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : April 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 022012) **Purity** 99%	2,503.8 µg/mL	+/- 14.5573 +/- 28.2339 +/- 32.4891	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 13I-483) **Purity** 99%	2,502.4 µg/mL	+/- 14.5492 +/- 28.2182 +/- 32.4709	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot 13I-050) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 +/- 28.1911 +/- 32.4398	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 01127COV) **Purity** 99%	2,503.6 µg/mL	+/- 14.5561 +/- 28.2317 +/- 32.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260VARES_00042

RESTEK® CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

ACCREDITED ISO Guide 34 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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. : 567646 **Lot No.:** A0105145

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 28, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate	4,010.0 µg/mL	+/- 23.5329 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot 131011JLM)		+/- 213.4273 µg/mL	Unstressed
	Purity 99%		+/- 213.6626 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VOA8260VARES_00049

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567646 **Lot No.:** A0106957

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : April 30, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	4,027.0 µg/mL	+/- 23.6327	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC8935V)		+/- 214.3321	µg/mL	Unstressed
	Purity 99%		+/- 214.5684	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VOAACRORES_00054

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Catalog No. : 568720 **Lot No.:** A0104886

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

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

Expiration Date : November 30, 2014 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein		19,780.0	µg/mL	+/- 115.8162	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 140429JLM)			+/- 634.2090	µg/mL	Unstressed
	Purity 99%				+/- 737.1986	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VOAACRORES_00062

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Catalog No. : 568720 **Lot No.:** A0106504

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

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

Expiration Date : February 28, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,767.0 µg/mL	+/- 115.7401	µg/mL	Gravimetric
	CAS # 107-02-8 (Lot 140903JLM)		+/- 633.7922	µg/mL	Unstressed
	Purity 99%		+/- 736.7140	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VOAACRORES_00067

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Catalog No. : 568720 **Lot No.:** A0108734

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/mL, Water, 1 mL/ampul

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

Expiration Date : May 31, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,890.0 µg/mL	+/- 116.4603	µg/mL	Gravimetric
	CAS # 107-02-8 (Lot 150115JLM)		+/- 637.7359	µg/mL	Unstressed
	Purity 99%		+/- 741.2982	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VOAACRRES2ND_00058

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Catalog No. : 568720.sec **Lot No.:** A0109953

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

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

Expiration Date : July 31, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,750.5 µg/mL	+/- 115.6435	µg/mL	Gravimetric
	CAS # 107-02-8.SEC (Lot 3384500)		+/- 633.2631	µg/mL	Unstressed
	Purity 95%		+/- 736.0991	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VOACEVERES_00046

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VOACEVERES_00050

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

Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VOACEVERES_00068

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Catalog No. : 569723 **Lot No.:** A0109994

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : March 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,506.0 µg/mL	+/- 14.7066	µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBK2735V)		+/- 53.1833	µg/mL	Unstressed
	Purity 99%		+/- 53.4189	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VOACYCLORES_00019

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

Catalog No. : 567648 **Lot No.:** A093361

Description : 8260 List 2 / Std #3 Cyclohexanone

8260 List 2 / Std #3 Cyclohexanone 20,000 ug/ml, Water, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 108-94-1		+/- 1,597.3791	µg/mL	Unstressed
	Purity 99%		+/- 1,598.1615	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VOALIST2STD1P_00020

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

Catalog No. : 568722 **Lot No.:** A0100262

Description : 8260 List 2/ Std #1 Additions (2014)

8260 List 2/ Std #1 Additions (2014) 2,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : June 30, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0 (Lot SHBC5752V) **Purity** 99%	20,007.0 µg/mL	+/- 117.1454 µg/mL +/- 1,064.8186 µg/mL +/- 1,065.9927 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 130611JLM) **Purity** 99%	2,000.0 µg/mL	+/- 32.2441 µg/mL +/- 110.6029 µg/mL +/- 110.7159 µg/mL	Gravimetric Unstressed Stressed
3	Ethyl acetate **CAS #** 141-78-6 (Lot SHBD3394V) **Purity** 99%	4,002.0 µg/mL	+/- 23.4860 µg/mL +/- 213.0015 µg/mL +/- 213.2364 µg/mL	Gravimetric Unstressed Stressed
4	Methacrylonitrile **CAS #** 126-98-7 (Lot 2194000) **Purity** 99%	20,000.5 µg/mL	+/- 117.1073 µg/mL +/- 1,064.4727 µg/mL +/- 1,065.6464 µg/mL	Gravimetric Unstressed Stressed
5	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBB2470V) **Purity** 99%	2,004.5 µg/mL	+/- 11.7635 µg/mL +/- 106.6871 µg/mL +/- 106.8047 µg/mL	Gravimetric Unstressed Stressed
6	1-Butanol **CAS #** 71-36-3 (Lot SHBC1840V) **Purity** 99%	50,001.0 µg/mL	+/- 292.7518 µg/mL +/- 2,661.1667 µg/mL +/- 2,664.1010 µg/mL	Gravimetric Unstressed Stressed
7	1,4-Difluorobenzene **CAS #** 540-36-3 (Lot 13105AO) **Purity** 99%	2,006.5 µg/mL	+/- 11.7753 µg/mL +/- 106.7935 µg/mL +/- 106.9112 µg/mL	Gravimetric Unstressed Stressed
8	Ethyl acrylate **CAS #** 140-88-5 (Lot 10129902) **Purity** 99%	2,005.5 µg/mL	+/- 11.7694 µg/mL +/- 106.7403 µg/mL +/- 106.8580 µg/mL	Gravimetric Unstressed Stressed

9	Methyl methacrylate		4,003.0	µg/mL	+/-	23.4918	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKBK0839V)			+/-	213.0548	µg/mL	Unstressed
	Purity 99%				+/-	213.2897	µg/mL	Stressed
10	2-Nitropropane		4,006.6	µg/mL	+/-	23.5129	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCBJ4343V)			+/-	213.2456	µg/mL	Unstressed
	Purity 97%				+/-	213.4807	µg/mL	Stressed
11	Butyl acetate		2,001.0	µg/mL	+/-	11.7430	µg/mL	Gravimetric
	CAS # 123-86-4	(Lot SHBC9340V)			+/-	106.5008	µg/mL	Unstressed
	Purity 99%				+/-	106.6182	µg/mL	Stressed
12	1-Chlorohexane		2,007.5	µg/mL	+/-	11.7811	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot 05107LK)			+/-	106.8467	µg/mL	Unstressed
	Purity 99%				+/-	106.9645	µg/mL	Stressed
13	1,2,3-Trimethylbenzene		2,004.0	µg/mL	+/-	11.7607	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.05-10)			+/-	106.6615	µg/mL	Unstressed
	Purity 97%				+/-	106.7791	µg/mL	Stressed
14	Benzyl chloride		2,009.0	µg/mL	+/-	11.7899	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot 20396EK)			+/-	106.9266	µg/mL	Unstressed
	Purity 99%				+/-	107.0445	µg/mL	Stressed
15	1,3,5-Trichlorobenzene		2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	106.4475	µg/mL	Unstressed
	Purity 99%				+/-	106.5649	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOALIST3STD1P_00009

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Catalog No. : 568723 **Lot No.:** A099930

Description : 8260 List 3/ Std#1 Polar Additions

8260 List 3/ Std#1 Polar Additions 2,000-100,000 µg/ml, 1 ml/ampul

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

Expiration Date : December 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethanol	100,255.6 µg/mL	+/- 586.9883 µg/mL	Gravimetric
	CAS # 64-17-5 (Lot SHBC8676V)		+/- 3,493.5733 µg/mL	Unstressed
	Purity 99%		+/- 3,613.2792 µg/mL	Stressed
2	Acetonitrile	20,015.9 µg/mL	+/- 117.1976 µg/mL	Gravimetric
	CAS # 75-05-8 (Lot SHBB3177V)		+/- 697.4888 µg/mL	Unstressed
	Purity 98%		+/- 721.3879 µg/mL	Stressed
3	Diisopropyl ether (DIPE)	2,001.6 µg/mL	+/- 11.7465 µg/mL	Gravimetric
	CAS # 108-20-3 (Lot SHBB6268V)		+/- 69.7537 µg/mL	Unstressed
	Purity 99%		+/- 72.1435 µg/mL	Stressed
4	Ethyl-tert-butyl ether (ETBE)	2,008.4 µg/mL	+/- 11.7864 µg/mL	Gravimetric
	CAS # 637-92-3 (Lot MKBP5984V)		+/- 69.9907 µg/mL	Unstressed
	Purity 99%		+/- 72.3885 µg/mL	Stressed
5	Propionitrile	20,039.6 µg/mL	+/- 117.3363 µg/mL	Gravimetric
	CAS # 107-12-0 (Lot BCBK0700V)		+/- 698.3142 µg/mL	Unstressed
	Purity 99%		+/- 722.2416 µg/mL	Stressed
6	tert-Amyl alcohol	20,035.2 µg/mL	+/- 117.3105 µg/mL	Gravimetric
	CAS # 75-85-4 (Lot STBB1898V)		+/- 698.1609 µg/mL	Unstressed
	Purity 99%		+/- 722.0831 µg/mL	Stressed
7	tert-Amyl methyl ether (TAME)	2,005.6 µg/mL	+/- 11.7700 µg/mL	Gravimetric
	CAS # 994-05-8 (Lot OS1028/4V)		+/- 69.8931 µg/mL	Unstressed
	Purity 99%		+/- 72.2876 µg/mL	Stressed

Reagent

WCN1000P_00024

1515323
ID: WCN1000P_00024
Exp:05/20/15 Prpd:PGJ Opn:12/19/14
Cyanide 1000 ppm Primary

1515324
ID: WAvCN1000P_00017
Exp:05/20/15 Prpd:PGJ Opn:12/19/14
Available Cyanide 1000 pp

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CERTIFICATE OF ANALYSIS

Description: CYANIDE STANDARD, 1000ppm (1ml = 1mg CN)

Mfg. Date: 11/20/2014

Catalog Number: LC13545

Exp. Date: 05/20/2015

Lot Number: D322-27

ANALYTICAL SECTION

Test	Specification	Test Result
Appearance	clear, colorless solution	Pass Test
Concentration ppm CN	1000ppm +/- 10ppm	1010ppm
Concentration mg CN/mL	1.000mg/mL +/- 0.010 mg CN/mL	1.010 mg CN/mL
Traceable to NIST	Potassium Chloride	999b

Submitted by: Greg Albright, Chemist Supervisor

Greg Albright

An ISO9001:2008 certified company. Registration # 0306-01

03/26/2015 2:29 PM

Reagent

WCN1000S_00017

RICC 1508131 ID: WCN1000S_00017 Exp:08/31/15 Prpd:PGJ Opn:03/19/15 Cyanide 1000 ppm Secondar ICAL (1508132 ID: WAvCN1000S_00018 Exp:08/31/15 Prpd:PGJ Opn:03/19/15 Avaliable Cyanide 1000 Se JY

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Cyanide Standard, 1000 ppm CN

Lot Number: 4502438 **Product Number:** 2543

Manufacture Date: FEB 13, 2015
Expiration Date: AUG 2015

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

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

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

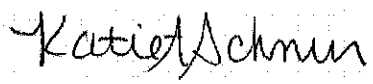
Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN)	995-1005 ppm	1000 ppm

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

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

Part Number	Size / Package Type	Shelf Life (Unopened Container
2543-4	120 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-16	500 mL amber poly	6 months

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



Katie Schnur
Quality Control Manager

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

Reagent

WCNWSTOCK_00001

ERA
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1456021
ID: WCNWSTOCK_00001
Exp:11/30/15 Prpd: Opn:01/06/15
Total Cyanide Water LCS 1

Rcvd 10-21-14 TDR

Certificate of Analysis

PRODUCT:	1000 mg/L Complex Cyanide
CATALOG NUMBER:	049 – 125 mL; 998 – 500 mL
LOT NUMBER:	200213
ISSUE DATE:	March 29, 2013
REVISION DATE:	May 8, 2014
STARTING MATERIAL:	Potassium Ferrocyanide 3-Hydrate ($K_4Fe(CN)_6$-$3H_2O$)
CERTIFIED CONCENTRATION[1]:	1000 mg/L
UNCERTAINTY[2]:	1.0%
MATRIX:	18 megohm deionized water and 0.5% (v/v) NaOH
DENSITY:	1.0083 ± 0.0008 g/mL at 20.5°C and 767 mm Hg
TRACEABILITY[3]:	NA
NIST/SRM:	NA
VERIFICATION METHOD:	Spectrophotometry
STORAGE:	Store at 20-25°C

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation of the product and includes uncertainty related to the starting material used and the volumetric and gravimetric measurements made. The method of calculating uncertainty is taken from the ISO Guide to the Expression of Uncertainty in Measurement (current version). The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.

3. Traceability Recovery = ((% Recovery certified standard)/(% Recovery NIST SRM))*100.

   The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

This standard **expires 11/2015**. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Tom Widera

ISO/IEC GUIDE 34:2009
ACCREDITED
REFERENCE MATERIAL PRODUCER
CERTIFICATE NO. 1539.02

ISO/IEC 17025:2005
ACCREDITED
CHEMICAL TESTING LABORATORY
CERTIFICATE NO. 1539.02

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
RB-01	180-43702-1	103	89	94	78
FB-01	180-43702-2	108	84	94	82
RB-02	180-43702-3	114	90	99	86
FB-02	180-43702-4	92	80	108	83
TRIP BLANK	180-43702-5	92	80	111	81
	MB 180-141065/5	103	87	120	93
	LCS 180-140962/17	98	78	90	82
	LCS 180-141065/9	102	94	100	97

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	62-123
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7050817.D

Lab ID: LCS 180-140962/17 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	400	366	92	69-134	
1,1,2,2-Tetrachloroethane	400	306	77	59-136	
1,1,2-Trichloroethane	400	351	88	75-126	
1,1-Dichloroethane	400	361	90	77-122	
1,1-Dichloroethene	400	388	97	69-127	
1,2-Dichlorobenzene	400	385	96	75-125	
1,2-Dichloroethane	400	336	84	63-140	
1,2-Dichloropropane	400	361	90	75-114	
1,3-Dichlorobenzene	400	360	90	76-125	
1,4-Dichlorobenzene	400	365	91	76-123	
Benzene	400	389	97	80-120	
Bromoform	400	310	78	49-137	
Bromomethane	400	581	145	45-150	
Carbon tetrachloride	400	402	101	63-139	
Chlorobenzene	400	380	95	83-120	
Chloroform	400	407	102	77-119	
Chloromethane	400	319	80	49-133	
Chlorodibromomethane	400	362	90	64-124	
cis-1,3-Dichloropropene	400	357	89	74-123	
Dichlorobromomethane	400	384	96	71-119	
Ethylbenzene	400	351	88	79-124	
Methylene Chloride	400	388	97	75-120	
Tetrachloroethene	400	370	92	78-126	
Toluene	400	413	103	80-124	
trans-1,2-Dichloroethene	400	383	96	78-120	
trans-1,3-Dichloropropene	400	348	87	63-122	
Trichloroethene	400	427	107	80-120	
Vinyl chloride	400	312	78	57-128	
Chloroethane	400	455	114	33-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 4050909.D

Lab ID: LCS 180-141065/9 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	40.0	40.4	101	69-134	
1,1,2,2-Tetrachloroethane	40.0	29.9	75	59-136	
1,1,2-Trichloroethane	40.0	31.5	79	75-126	
1,1-Dichloroethane	40.0	38.3	96	77-122	
1,1-Dichloroethene	40.0	38.2	95	69-127	
1,2-Dichlorobenzene	40.0	36.8	92	75-125	
1,2-Dichloroethane	40.0	35.8	90	63-140	
1,2-Dichloropropane	40.0	36.6	91	75-114	
1,3-Dichlorobenzene	40.0	40.9	102	76-125	
1,4-Dichlorobenzene	40.0	38.1	95	76-123	
Benzene	40.0	38.7	97	80-120	
Bromoform	40.0	30.8	77	49-137	
Bromomethane	40.0	45.0	112	45-150	
Carbon tetrachloride	40.0	42.5	106	63-139	
Chlorobenzene	40.0	39.7	99	83-120	
Chloroform	40.0	38.1	95	77-119	
Chloromethane	40.0	40.5	101	49-133	
Chlorodibromomethane	40.0	35.9	90	64-124	
cis-1,3-Dichloropropene	40.0	34.7	87	74-123	
Dichlorobromomethane	40.0	39.3	98	71-119	
Ethylbenzene	40.0	41.8	104	79-124	
Methylene Chloride	40.0	35.9	90	75-120	
Tetrachloroethene	40.0	40.6	101	78-126	
Toluene	40.0	39.4	98	80-124	
trans-1,2-Dichloroethene	40.0	37.5	94	78-120	
trans-1,3-Dichloropropene	40.0	37.0	93	63-122	
Trichloroethene	40.0	39.6	99	80-120	
Vinyl chloride	40.0	38.6	96	57-128	
Chloroethane	40.0	44.2	110	33-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: 4050905.D Lab Sample ID: MB 180-141065/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHHP4 Date Analyzed: 05/09/2015 14:00

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
FB-02	180-43702-4	4050906.D	05/09/2015 14:27
TRIP BLANK	180-43702-5	4050908.D	05/09/2015 15:21
	LCS 180-141065/9	4050909.D	05/09/2015 15:48

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: 4110301.D BFB Injection Date: 11/03/2014

Instrument ID: CHHP4 BFB Injection Time: 09:04

Analysis Batch No.: 123648

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.7	
75	30.0 - 60.0 % of mass 95	42.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.6	(0.6)1
174	50.0 - 120.00 % of mass 95	100.6	
175	5.0 - 9.0 % of mass 174	7.0	(6.9)1
176	95.0 - 101.0 % of mass 174	96.2	(95.6)1
177	5.0 - 9.0 % of mass 176	6.4	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

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 180-123648/4	4110304.D	11/03/2014	12:22
	IC 180-123648/5	4110305.D	11/03/2014	12:49
	IC 180-123648/6	4110306.D	11/03/2014	13:15
	ICIS 180-123648/7	4110307.D	11/03/2014	13:42
	IC 180-123648/9	4110309.D	11/03/2014	14:35
	IC 180-123648/10	4110310.D	11/03/2014	15:02
	IC 180-123648/12	4110312.D	11/03/2014	16:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: 4050901.D BFB Injection Date: 05/09/2015

Instrument ID: CHHP4 BFB Injection Time: 11:24

Analysis Batch No.: 141065

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	25.0	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.8	(1.1)1
174	50.0 - 120.00 % of mass 95	76.4	
175	5.0 - 9.0 % of mass 174	5.7	(7.5)1
176	95.0 - 101.0 % of mass 174	73.3	(96.0)1
177	5.0 - 9.0 % of mass 176	5.0	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

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 180-141065/2	4050902.D	05/09/2015	12:04
	CCV 180-141065/3	4050903.D	05/09/2015	12:46
	MB 180-141065/5	4050905.D	05/09/2015	14:00
FB-02	180-43702-4	4050906.D	05/09/2015	14:27
TRIP BLANK	180-43702-5	4050908.D	05/09/2015	15:21
	LCS 180-141065/9	4050909.D	05/09/2015	15:48

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: 7102001.D BFB Injection Date: 10/20/2014

Instrument ID: CHHP7 BFB Injection Time: 11:48

Analysis Batch No.: 122015

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	24.5	
75	30.0 - 60.0 % of mass 95	48.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.6	(0.8)1
174	50.0 - 120.00 % of mass 95	77.1	
175	5.0 - 9.0 % of mass 174	5.6	(7.3)1
176	95.0 - 101.0 % of mass 174	77.7	(100.8)1
177	5.0 - 9.0 % of mass 176	4.8	(6.2)2

1-Value is % mass 174 2-Value is % mass 176

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 180-122015/3	7102003.D	10/20/2014	12:49
	IC 180-122015/4	7102004.D	10/20/2014	13:15
	IC 180-122015/5	7102005.D	10/20/2014	13:42
	IC 180-122015/6	7102006.D	10/20/2014	14:12
	IC 180-122015/7	7102007.D	10/20/2014	14:42
	IC 180-122015/8	7102008.D	10/20/2014	15:08
	IC 180-122015/9	7102009.D	10/20/2014	15:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: 7011301.D BFB Injection Date: 01/13/2015

Instrument ID: CHHP7 BFB Injection Time: 09:04

Analysis Batch No.: 130597

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.0	
75	30.0 - 60.0 % of mass 95	56.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.2	(0.3)1
174	50.0 - 120.00 % of mass 95	85.2	
175	5.0 - 9.0 % of mass 174	5.7	(6.7)1
176	95.0 - 101.0 % of mass 174	81.1	(95.2)1
177	5.0 - 9.0 % of mass 176	5.1	(6.2)2

1-Value is % mass 174 2-Value is % mass 176

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 180-130597/3	7011303.D	01/13/2015	10:25
	IC 180-130597/4	7011304.D	01/13/2015	10:53
	IC 180-130597/5	7011305.D	01/13/2015	11:33
	ICIS 180-130597/6	7011306.D	01/13/2015	12:00
	IC 180-130597/7	7011307.D	01/13/2015	12:26
	IC 180-130597/8	7011308.D	01/13/2015	13:21
	IC 180-130597/9	7011309.D	01/13/2015	14:16

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: 7050801.D BFB Injection Date: 05/08/2015

Instrument ID: CHHP7 BFB Injection Time: 07:42

Analysis Batch No.: 140962

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	55.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.1	
173	Less than 2.0 % of mass 174	0.5	(0.5)1
174	50.0 - 120.00 % of mass 95	89.1	
175	5.0 - 9.0 % of mass 174	6.0	(6.8)1
176	95.0 - 101.0 % of mass 174	85.2	(95.7)1
177	5.0 - 9.0 % of mass 176	5.0	(5.8)2

1-Value is % mass 174 2-Value is % mass 176

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 180-140962/2	7050802.D	05/08/2015	08:50
	CCV 180-140962/4	7050804.D	05/08/2015	09:52
	MB 180-140962/11	7050811.D	05/08/2015	14:23
RB-01	180-43702-1	7050812.D	05/08/2015	14:51
FB-01	180-43702-2	7050813.D	05/08/2015	15:18
RB-02	180-43702-3	7050814.D	05/08/2015	15:54
	LCS 180-140962/17	7050817.D	05/08/2015	17:14

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVIS 180-141065/2 Date Analyzed: 05/09/2015 12:04

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 4050902.D Heated Purge: (Y/N) N

Calibration ID: 23592

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		219461	3.20	742593	6.25	179904	9.45
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-141065/3		131512	3.13	846197	6.25	182246	9.45
MB 180-141065/5		147639	3.09	979359	6.26	200301	9.45
180-43702-4	FB-02	143926	3.10	974591	6.26	203174	9.45
180-43702-5	TRIP BLANK	132142	3.11	913138	6.26	179811	9.45
LCS 180-141065/9		162242	3.16	923359	6.25	215803	9.45

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVIS 180-141065/2 Date Analyzed: 05/09/2015 12:04

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 4050902.D Heated Purge: (Y/N) N

Calibration ID: 23592

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		237433	11.80				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-141065/3		206771	11.80				
MB 180-141065/5		202493	11.80				
180-43702-4	FB-02	196743	11.80				
180-43702-5	TRIP BLANK	170838	11.80				
LCS 180-141065/9		283557	11.80				

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVIS 180-140962/2 Date Analyzed: 05/08/2015 08:50

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 7050802.D Heated Purge: (Y/N) N

Calibration ID: 21192

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		126072	4.71	600352	7.41	172505	10.47
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-140962/4		67216	4.69	1074207	7.41	280854	10.46
180-43702-1	RB-01	85280	4.57	556557	7.42	150000	10.47
180-43702-2	FB-01	125964	4.56	584242	7.41	167808	10.47
180-43702-3	RB-02	109732	4.58	588942	7.42	148775	10.47
LCS 180-140962/17		129628	4.73	637309	7.40	178149	10.46

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVIS 180-140962/2 Date Analyzed: 05/08/2015 08:50

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 7050802.D Heated Purge: (Y/N) N

Calibration ID: 21192

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		173940	12.79				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-140962/4		273579	12.79				
180-43702-1	RB-01	125045	12.79				
180-43702-2	FB-01	162309	12.79				
180-43702-3	RB-02	156162	12.79				
LCS 180-140962/17		171459	12.79				

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-01 | Lab Sample ID: 180-43702-1

Matrix: Water | Lab File ID: 7050812.D

Analysis Method: 8260C | Date Collected: 04/30/2015 17:30

Sample wt/vol: 5(mL) | Date Analyzed: 05/08/2015 14:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 140962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	H	5.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND	H	5.0	0.93
79-00-5	1,1,2-Trichloroethane	ND	H	5.0	1.2
75-34-3	1,1-Dichloroethane	ND	H	5.0	1.0
75-35-4	1,1-Dichloroethene	ND	H	5.0	1.1
95-50-1	1,2-Dichlorobenzene	ND	H	5.0	0.68
107-06-2	1,2-Dichloroethane	ND	H	5.0	0.96
78-87-5	1,2-Dichloropropane	ND	H	5.0	1.3
541-73-1	1,3-Dichlorobenzene	ND	H	5.0	0.51
106-46-7	1,4-Dichlorobenzene	ND	H	5.0	0.53
110-75-8	2-Chloroethyl vinyl ether	ND	H	10	1.9
107-02-8	Acrolein	ND	H	100	5.7
107-13-1	Acrylonitrile	ND	H	50	9.0
71-43-2	Benzene	ND	H	5.0	0.99
75-25-2	Bromoform	ND	H	5.0	1.1
74-83-9	Bromomethane	ND	H	5.0	1.6
56-23-5	Carbon tetrachloride	ND	H	5.0	1.1
108-90-7	Chlorobenzene	ND	H	5.0	0.53
67-66-3	Chloroform	ND	H	5.0	1.0
74-87-3	Chloromethane	ND	H	5.0	1.4
124-48-1	Chlorodibromomethane	ND	H	5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND	H	5.0	0.73
75-27-4	Dichlorobromomethane	ND	H	5.0	0.93
100-41-4	Ethylbenzene	ND	H	5.0	0.62
75-09-2	Methylene Chloride	ND	H	5.0	1.1
127-18-4	Tetrachloroethene	ND	H	5.0	0.82
108-88-3	Toluene	ND	H	5.0	0.85
156-60-5	trans-1,2-Dichloroethene	ND	H	5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	ND	H	5.0	0.58
79-01-6	Trichloroethene	ND	H	5.0	0.80
75-01-4	Vinyl chloride	ND	H	5.0	1.3
75-00-3	Chloroethane	ND	H	5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-01 Lab Sample ID: 180-43702-1

Matrix: Water Lab File ID: 7050812.D

Analysis Method: 8260C Date Collected: 04/30/2015 17:30

Sample wt/vol: 5(mL) Date Analyzed: 05/08/2015 14:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 140962 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		62-123
460-00-4	4-Bromofluorobenzene (Surr)	78		75-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050812.D
Lims ID: 180-43702-J-1 Lab Sample ID: 180-43702-1
Client ID: RB-01
Sample Type: Client
Inject. Date: 08-May-2015 14:51:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-43702-J-1
Misc. Info.: 180-0006830-012
Operator ID: 034635 Instrument ID: CHHP7

Method: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 08-May-2015 17:48:34 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: journetp Date: 08-May-2015 15:23:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.573	4.710	-0.137	74	85280	5000.0	M
* 2 Fluorobenzene (IS)	96	7.420	7.405	0.015	99	556557	250.0	
* 3 Chlorobenzene-d5	119	10.468	10.465	0.003	85	150000	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.786	12.789	-0.003	95	125045	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.690	6.675	0.015	91	174147	258.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.043	7.040	0.003	93	146041	223.7	
$ 7 Toluene-d8 (Surr)	98	9.039	9.035	0.004	92	519458	234.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.636	11.633	0.003	90	168134	195.6	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

VOA8260INT_00033 Amount Added: 10.00 Units: uL Run Reagent
VOA8260SURR_00035 Amount Added: 10.00 Units: uL Run Reagent

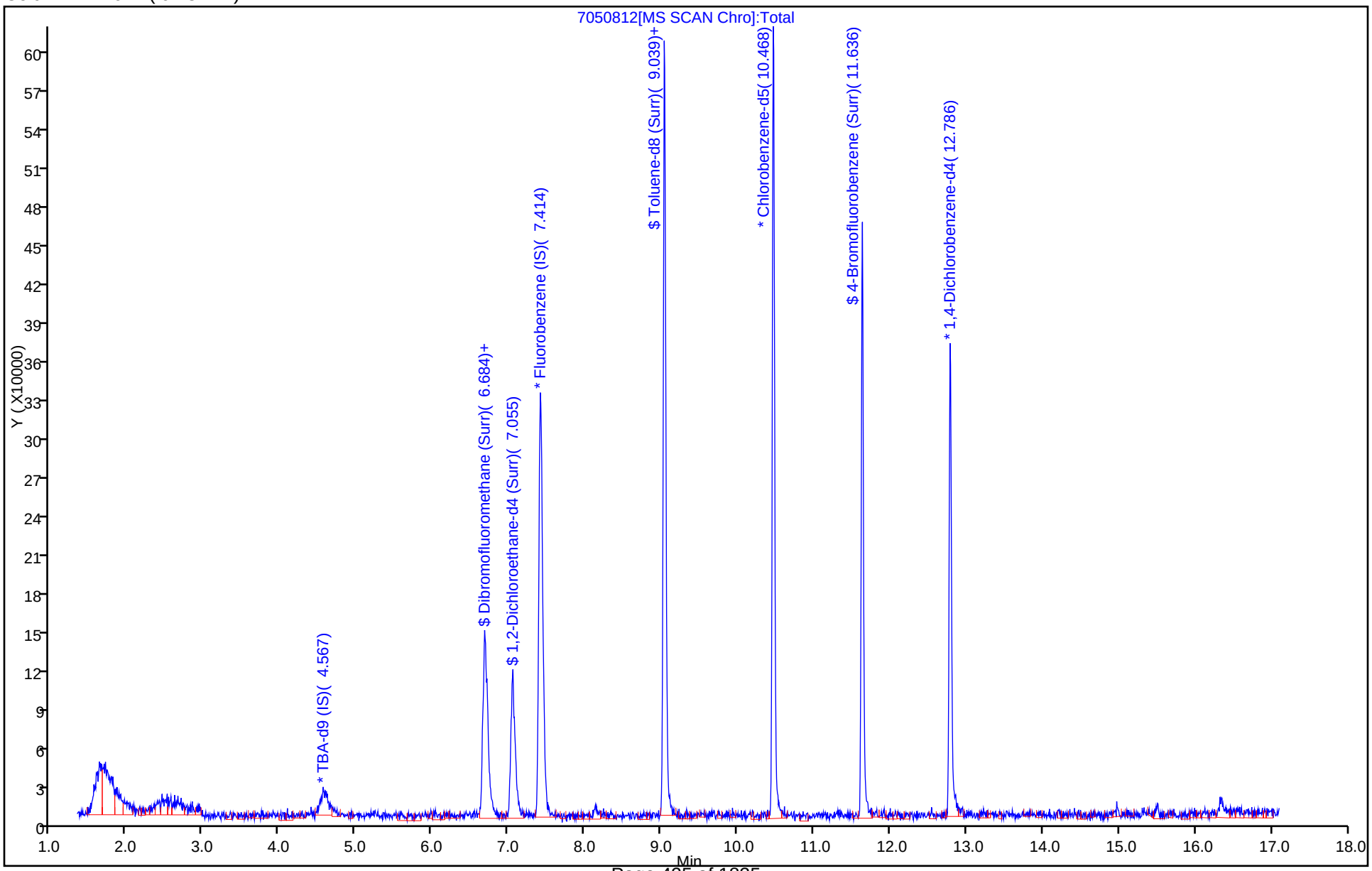
Report Date: 08-May-2015 17:48:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050812.D

Injection Date:	08-May-2015 14:51:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	180-43702-J-1	Lab Sample ID:	180-43702-1	Worklist Smp#:	12
Client ID:	RB-01				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

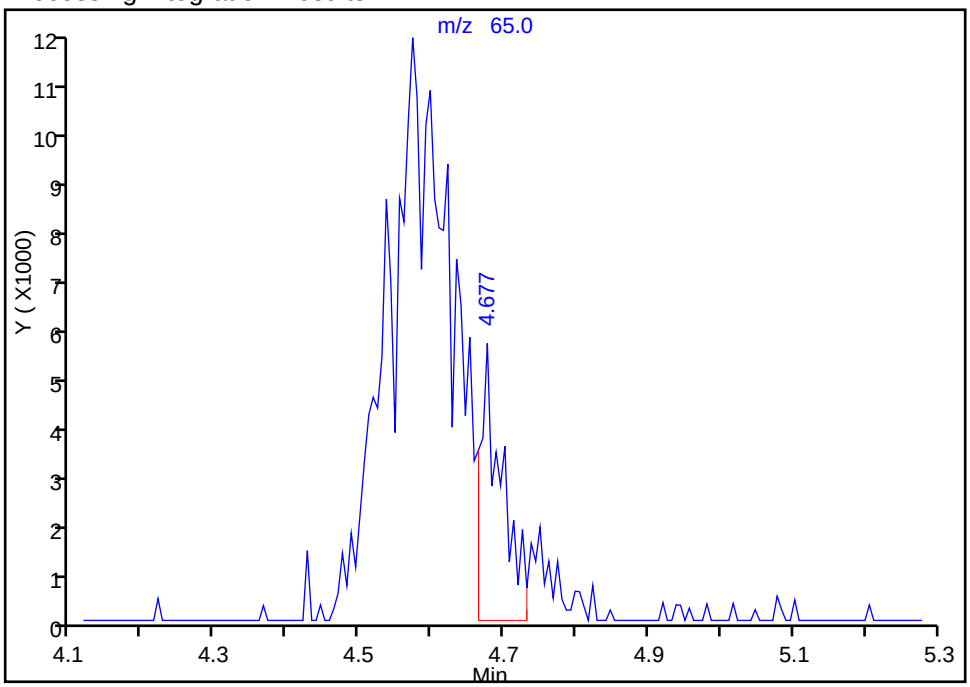
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050812.D				
Injection Date:	08-May-2015 14:51:30	Instrument ID:	CHHP7		
Lims ID:	180-43702-J-1	Lab Sample ID:	180-43702-1		
Client ID:	RB-01				
Operator ID:	034635	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

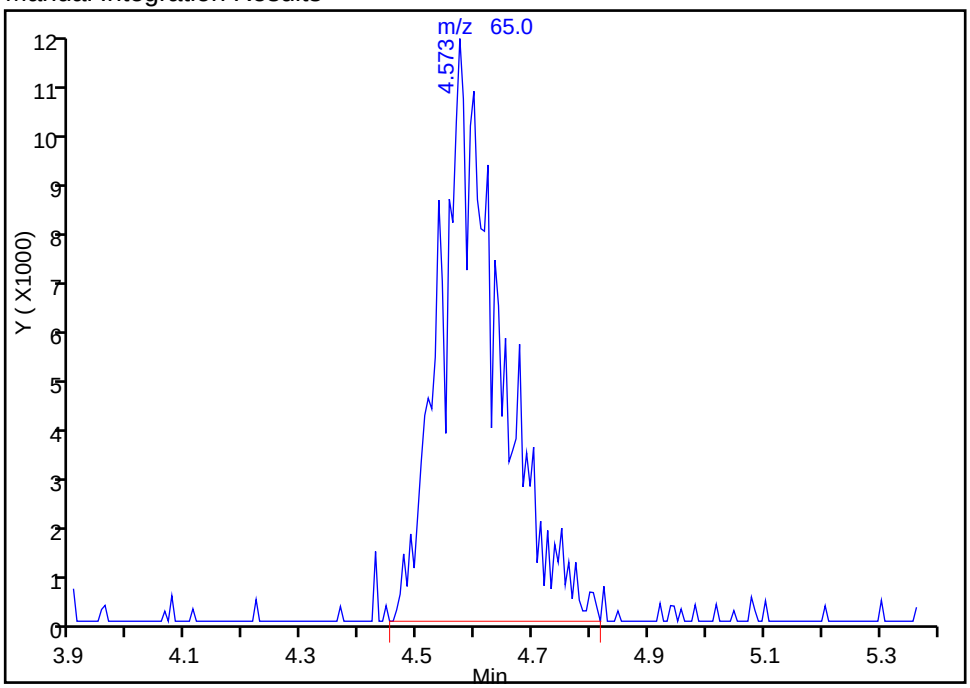
Processing Integration Results

RT: 4.68
Area: 11600
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.57
Area: 85280
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 08-May-2015 15:23:31
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-01 | Lab Sample ID: 180-43702-2

Matrix: Water | Lab File ID: 7050813.D

Analysis Method: 8260C | Date Collected: 04/30/2015 17:45

Sample wt/vol: 5(mL) | Date Analyzed: 05/08/2015 15:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 140962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	H	5.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND	H	5.0	0.93
79-00-5	1,1,2-Trichloroethane	ND	H	5.0	1.2
75-34-3	1,1-Dichloroethane	ND	H	5.0	1.0
75-35-4	1,1-Dichloroethene	ND	H	5.0	1.1
95-50-1	1,2-Dichlorobenzene	ND	H	5.0	0.68
107-06-2	1,2-Dichloroethane	ND	H	5.0	0.96
78-87-5	1,2-Dichloropropane	ND	H	5.0	1.3
541-73-1	1,3-Dichlorobenzene	ND	H	5.0	0.51
106-46-7	1,4-Dichlorobenzene	ND	H	5.0	0.53
110-75-8	2-Chloroethyl vinyl ether	ND	H	10	1.9
107-02-8	Acrolein	ND	H	100	5.7
107-13-1	Acrylonitrile	ND	H	50	9.0
71-43-2	Benzene	ND	H	5.0	0.99
75-25-2	Bromoform	ND	H	5.0	1.1
74-83-9	Bromomethane	ND	H	5.0	1.6
56-23-5	Carbon tetrachloride	ND	H	5.0	1.1
108-90-7	Chlorobenzene	ND	H	5.0	0.53
67-66-3	Chloroform	ND	H	5.0	1.0
74-87-3	Chloromethane	ND	H	5.0	1.4
124-48-1	Chlorodibromomethane	ND	H	5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND	H	5.0	0.73
75-27-4	Dichlorobromomethane	ND	H	5.0	0.93
100-41-4	Ethylbenzene	ND	H	5.0	0.62
75-09-2	Methylene Chloride	ND	H	5.0	1.1
127-18-4	Tetrachloroethene	ND	H	5.0	0.82
108-88-3	Toluene	ND	H	5.0	0.85
156-60-5	trans-1,2-Dichloroethene	ND	H	5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	ND	H	5.0	0.58
79-01-6	Trichloroethene	ND	H	5.0	0.80
75-01-4	Vinyl chloride	ND	H	5.0	1.3
75-00-3	Chloroethane	ND	H	5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-01 Lab Sample ID: 180-43702-2

Matrix: Water Lab File ID: 7050813.D

Analysis Method: 8260C Date Collected: 04/30/2015 17:45

Sample wt/vol: 5(mL) Date Analyzed: 05/08/2015 15:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 140962 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		62-123
460-00-4	4-Bromofluorobenzene (Surr)	82		75-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050813.D
Lims ID: 180-43702-J-2 Lab Sample ID: 180-43702-2
Client ID: FB-01
Sample Type: Client
Inject. Date: 08-May-2015 15:18:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-43702-J-2
Misc. Info.: 180-0006830-013
Operator ID: 034635 Instrument ID: CHHP7

Method: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 08-May-2015 17:48:34 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: journetp Date: 08-May-2015 16:11:20

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	4.561	4.710	-0.149	62	125964	5000.0	M
*	2 Fluorobenzene (IS)	96	7.414	7.405	0.009	99	584242	250.0	
*	3 Chlorobenzene-d5	119	10.468	10.465	0.003	85	167808	250.0	
*	4 1,4-Dichlorobenzene-d4	152	12.792	12.789	0.003	94	162309	250.0	
$	5 Dibromofluoromethane (Surr	113	6.678	6.675	0.003	88	190438	268.8	
$	6 1,2-Dichloroethane-d4 (Sur	65	7.067	7.040	0.027	92	144541	210.9	
$	7 Toluene-d8 (Surr)	98	9.044	9.035	0.009	93	582042	235.1	
$	8 4-Bromofluorobenzene (Surr	95	11.636	11.633	0.003	89	197043	204.9	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

VOA8260INT_00033 Amount Added: 10.00 Units: uL Run Reagent
VOA8260SURR_00035 Amount Added: 10.00 Units: uL Run Reagent

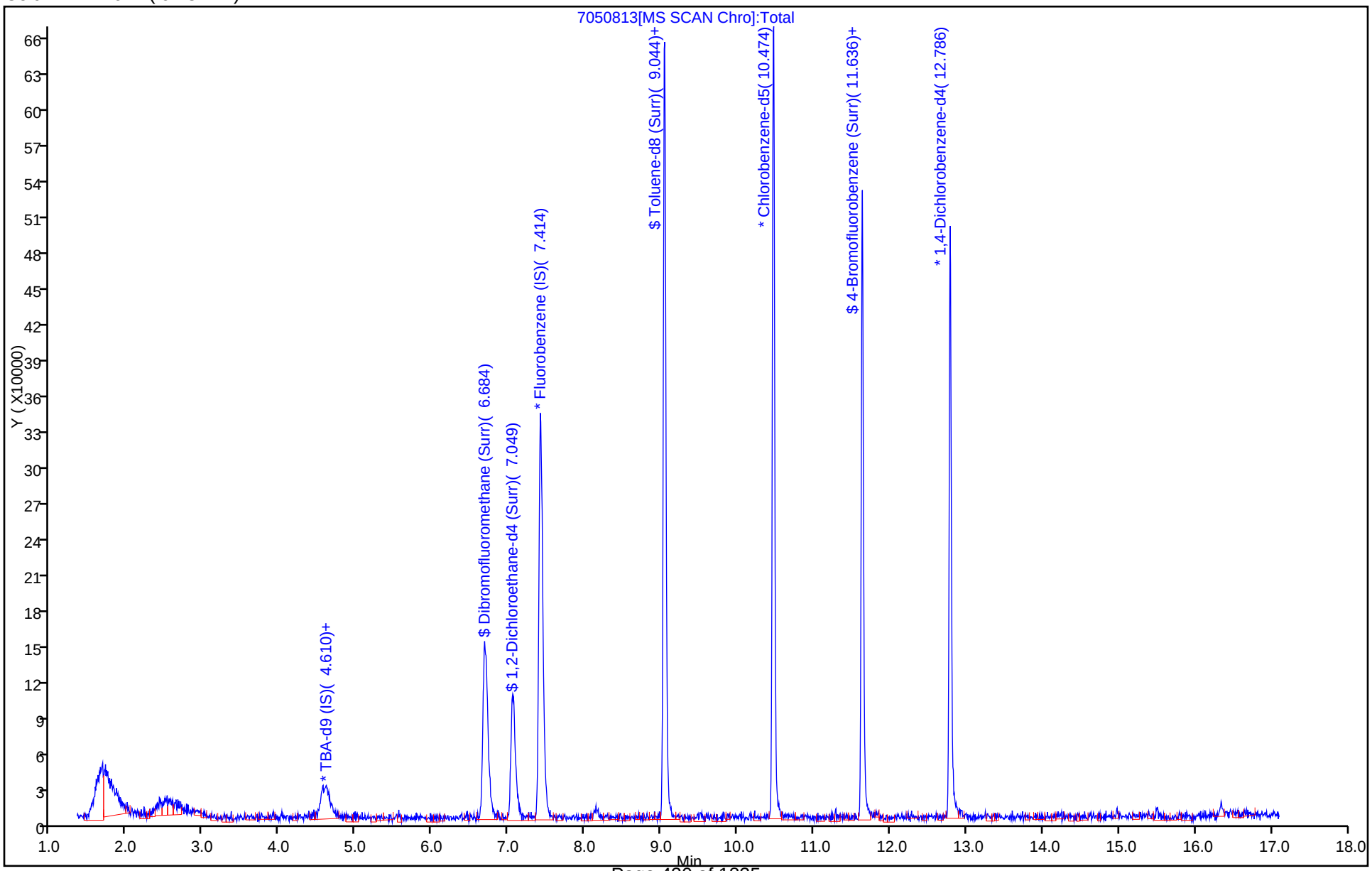
Report Date: 08-May-2015 17:48:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050813.D

Injection Date:	08-May-2015 15:18:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	180-43702-J-2	Lab Sample ID:	180-43702-2	Worklist Smp#:	13
Client ID:	FB-01				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

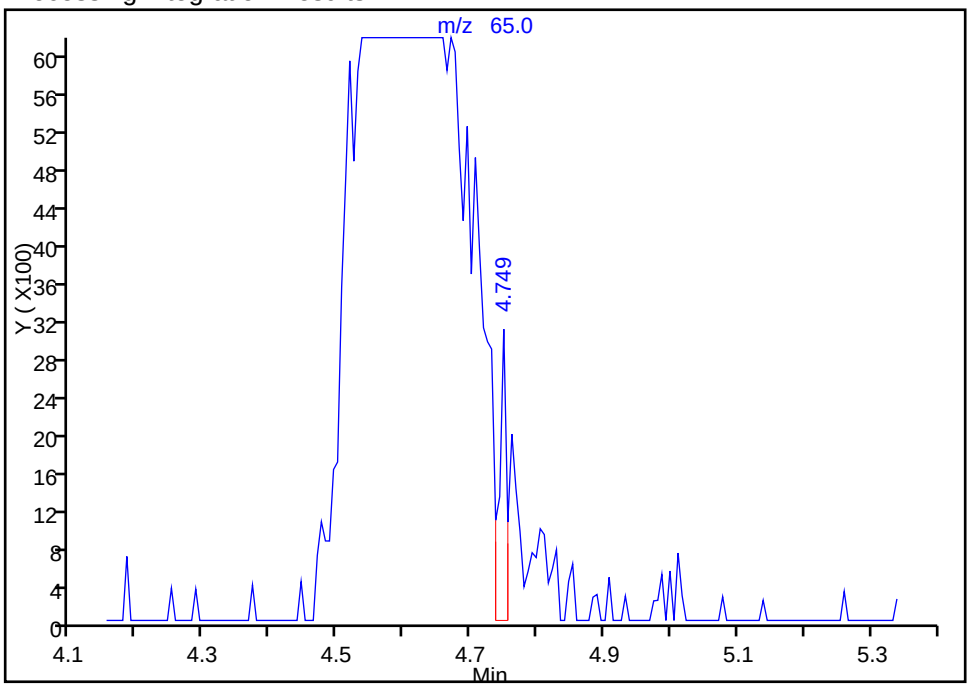
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050813.D				
Injection Date:	08-May-2015 15:18:30	Instrument ID:	CHHP7		
Lims ID:	180-43702-J-2	Lab Sample ID:	180-43702-2		
Client ID:	FB-01				
Operator ID:	034635	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

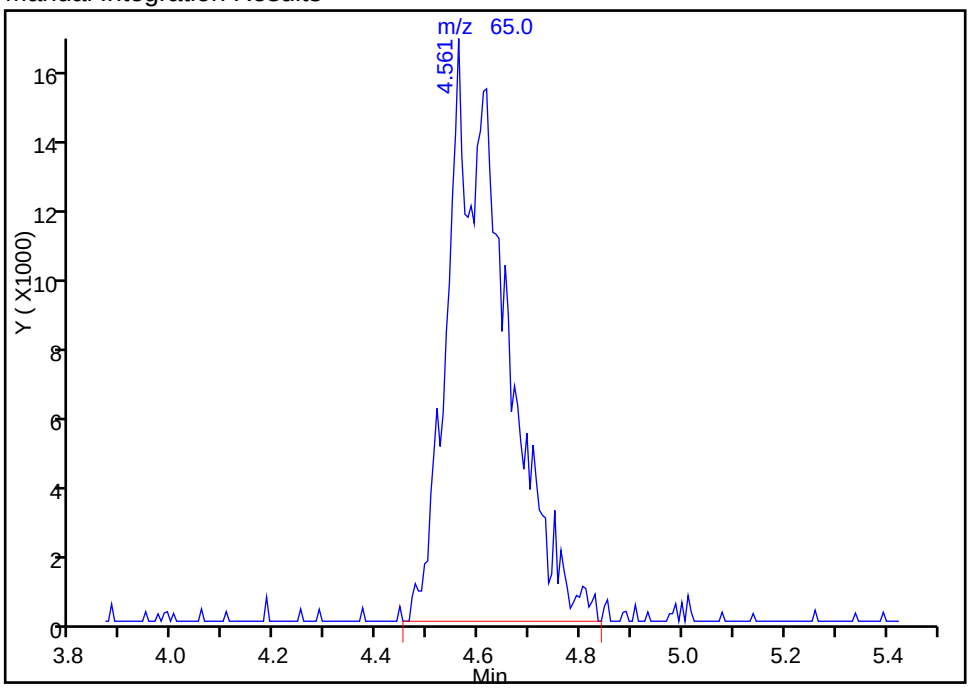
Processing Integration Results

RT: 4.75
Area: 2357
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.56
Area: 125964
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 08-May-2015 16:11:20
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-02 | Lab Sample ID: 180-43702-3

Matrix: Water | Lab File ID: 7050814.D

Analysis Method: 8260C | Date Collected: 05/01/2015 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/08/2015 15:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 140962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.93
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
75-34-3	1,1-Dichloroethane	ND		5.0	1.0
75-35-4	1,1-Dichloroethene	ND		5.0	1.1
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.68
107-06-2	1,2-Dichloroethane	ND		5.0	0.96
78-87-5	1,2-Dichloropropane	ND		5.0	1.3
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.51
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.53
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.9
107-02-8	Acrolein	ND		100	5.7
107-13-1	Acrylonitrile	ND		50	9.0
71-43-2	Benzene	ND		5.0	0.99
75-25-2	Bromoform	ND		5.0	1.1
74-83-9	Bromomethane	ND		5.0	1.6
56-23-5	Carbon tetrachloride	ND		5.0	1.1
108-90-7	Chlorobenzene	ND		5.0	0.53
67-66-3	Chloroform	ND		5.0	1.0
74-87-3	Chloromethane	ND		5.0	1.4
124-48-1	Chlorodibromomethane	ND		5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.73
75-27-4	Dichlorobromomethane	ND		5.0	0.93
100-41-4	Ethylbenzene	ND		5.0	0.62
75-09-2	Methylene Chloride	ND		5.0	1.1
127-18-4	Tetrachloroethene	ND		5.0	0.82
108-88-3	Toluene	ND		5.0	0.85
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	0.58
79-01-6	Trichloroethene	ND		5.0	0.80
75-01-4	Vinyl chloride	ND		5.0	1.3
75-00-3	Chloroethane	ND		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-02 Lab Sample ID: 180-43702-3

Matrix: Water Lab File ID: 7050814.D

Analysis Method: 8260C Date Collected: 05/01/2015 15:00

Sample wt/vol: 5(mL) Date Analyzed: 05/08/2015 15:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 140962 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		62-123
460-00-4	4-Bromofluorobenzene (Surr)	86		75-120
1868-53-7	Dibromofluoromethane (Surr)	114		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050814.D				
Lims ID:	180-43702-I-3	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Sample Type:	Client				
Inject. Date:	08-May-2015 15:54:30	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	180-43702-I-3				
Misc. Info.:	180-0006830-014				
Operator ID:	034635	Instrument ID:	CHHP7		
Method:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\MSVOA_CHHP7.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	08-May-2015 17:48:34	Calib Date:	13-Jan-2015 14:16:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: journetp		Date:	08-May-2015 16:30:30		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.579	4.710	-0.131	76	109732	5000.0	M
* 2 Fluorobenzene (IS)	96	7.420	7.405	0.015	99	588942	250.0	
* 3 Chlorobenzene-d5	119	10.468	10.465	0.003	84	148775	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.792	12.789	0.003	94	156162	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.678	6.675	0.003	86	203656	285.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.055	7.040	0.015	96	155438	225.0	
$ 7 Toluene-d8 (Surr)	98	9.038	9.035	0.003	93	540681	246.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.630	11.633	-0.003	88	183367	215.1	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

VOA8260INT_00033	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260SURR_00035	Amount Added: 10.00	Units: uL	Run Reagent

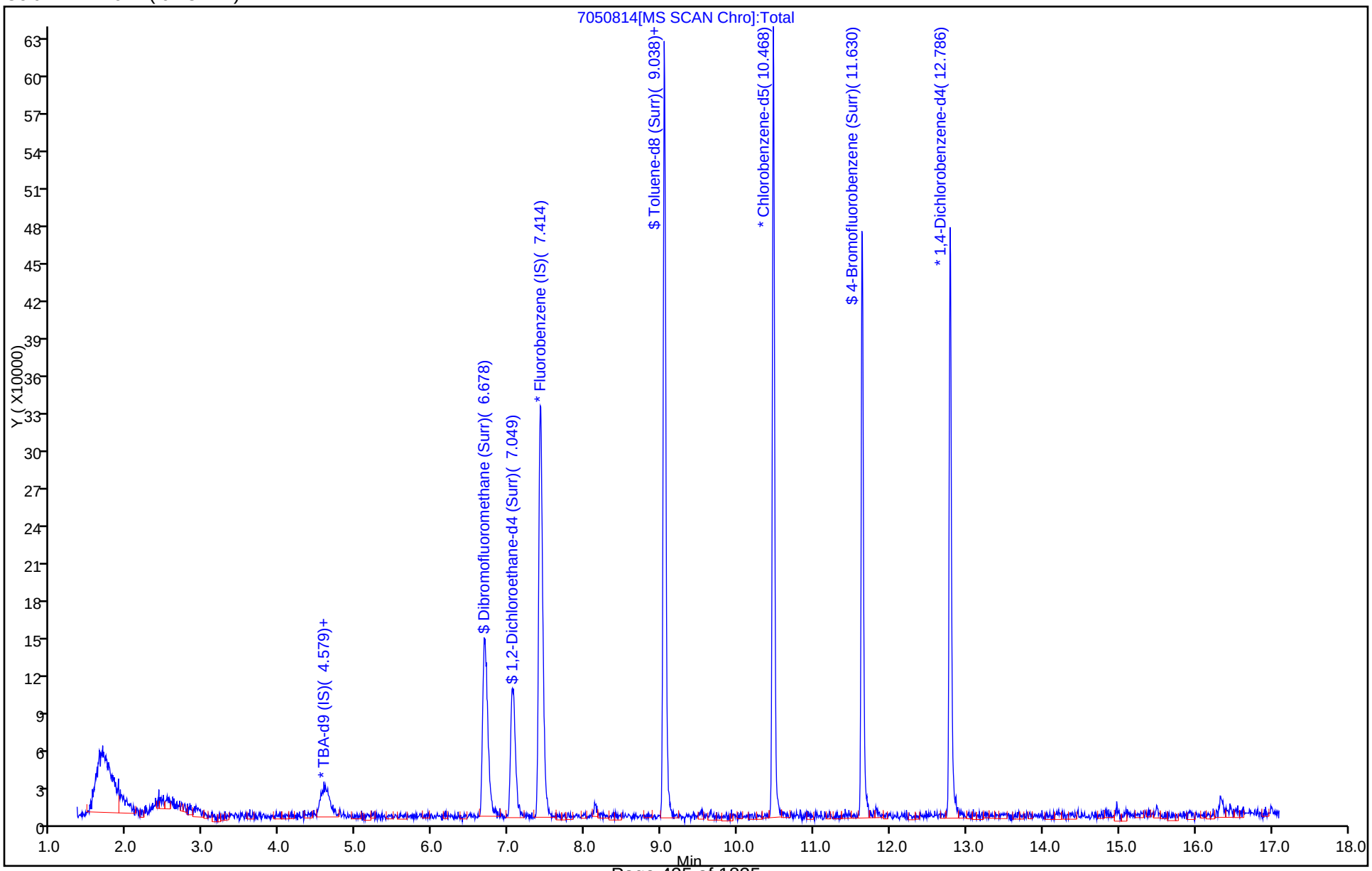
Report Date: 08-May-2015 17:48:43 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050814.D

Injection Date:	08-May-2015 15:54:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	180-43702-I-3	Lab Sample ID:	180-43702-3	Worklist Smp#:	14
Client ID:	RB-02				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

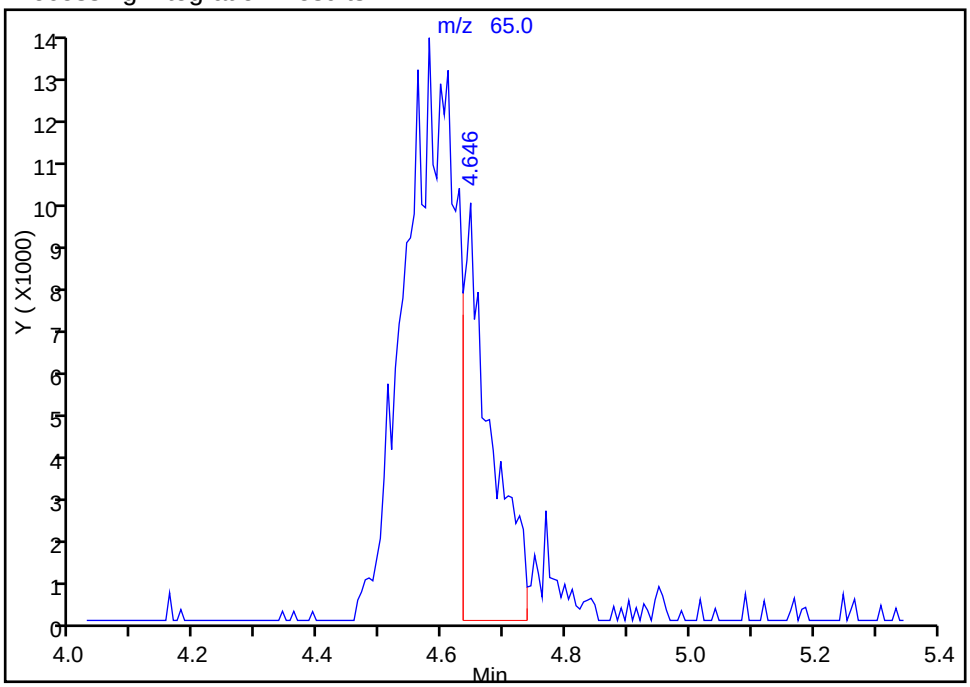
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050814.D				
Injection Date:	08-May-2015 15:54:30	Instrument ID:	CHHP7		
Lims ID:	180-43702-I-3	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	034635	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

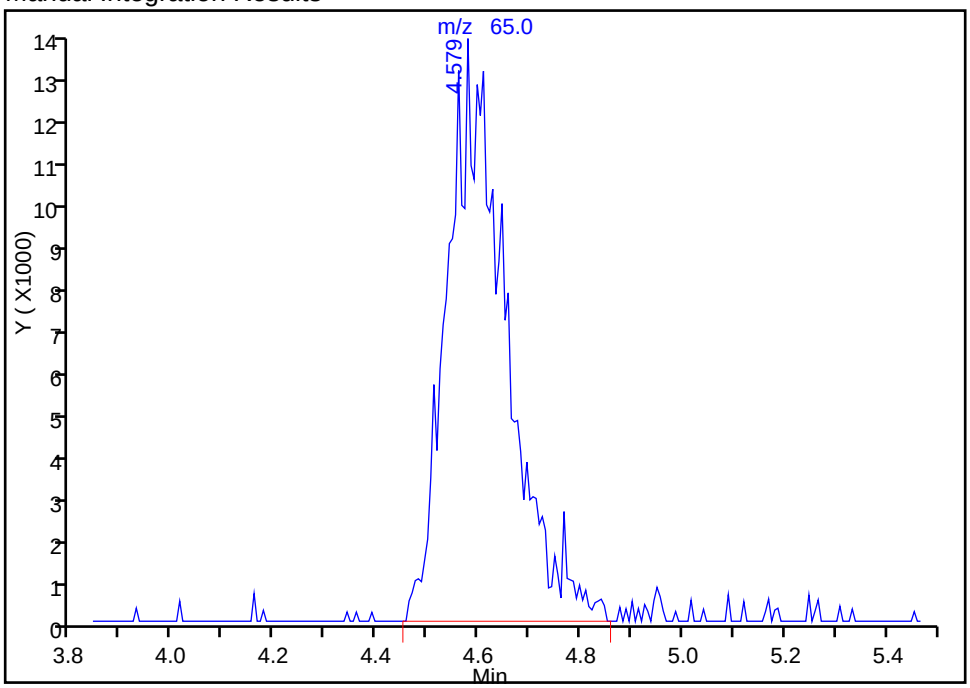
Processing Integration Results

RT: 4.65
Area: 30055
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.58
Area: 109732
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 08-May-2015 16:30:30
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-02 | Lab Sample ID: 180-43702-4

Matrix: Water | Lab File ID: 4050906.D

Analysis Method: 8260C | Date Collected: 05/01/2015 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 05/09/2015 14:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 141065 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.93
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
75-34-3	1,1-Dichloroethane	ND		5.0	1.0
75-35-4	1,1-Dichloroethene	ND		5.0	1.1
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.68
107-06-2	1,2-Dichloroethane	ND		5.0	0.96
78-87-5	1,2-Dichloropropane	ND		5.0	1.3
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.51
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.53
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.9
107-02-8	Acrolein	ND		100	5.7
107-13-1	Acrylonitrile	ND		50	9.0
71-43-2	Benzene	ND		5.0	0.99
75-25-2	Bromoform	ND		5.0	1.1
74-83-9	Bromomethane	ND		5.0	1.6
56-23-5	Carbon tetrachloride	ND		5.0	1.1
108-90-7	Chlorobenzene	ND		5.0	0.53
67-66-3	Chloroform	ND		5.0	1.0
74-87-3	Chloromethane	ND		5.0	1.4
124-48-1	Chlorodibromomethane	ND		5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.73
75-27-4	Dichlorobromomethane	ND		5.0	0.93
100-41-4	Ethylbenzene	ND		5.0	0.62
75-09-2	Methylene Chloride	ND		5.0	1.1
127-18-4	Tetrachloroethene	ND		5.0	0.82
108-88-3	Toluene	ND		5.0	0.85
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	0.58
79-01-6	Trichloroethene	ND		5.0	0.80
75-01-4	Vinyl chloride	ND		5.0	1.3
75-00-3	Chloroethane	ND		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-02 Lab Sample ID: 180-43702-4

Matrix: Water Lab File ID: 4050906.D

Analysis Method: 8260C Date Collected: 05/01/2015 15:15

Sample wt/vol: 5(mL) Date Analyzed: 05/09/2015 14:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 141065 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		62-123
460-00-4	4-Bromofluorobenzene (Surr)	83		75-120
1868-53-7	Dibromofluoromethane (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	108		80-120

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050906.D
Lims ID: 180-43702-J-4 Lab Sample ID: 180-43702-4
Client ID: FB-02
Sample Type: Client
Inject. Date: 09-May-2015 14:27:30 ALS Bottle#: 13 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-43702-J-4
Misc. Info.: 180-0006844-006
Operator ID: 034635 Instrument ID: CHHP4

Method: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 10-May-2015 11:35:24 Calib Date: 27-Apr-2015 13:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20150427-6642.b\4042710.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: journetp Date: 09-May-2015 14:20:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.102	3.144	-0.042	98	143926	5000.0	
* 2 Fluorobenzene (IS)	96	6.259	6.259	0.000	97	974591	250.0	
* 3 Chlorobenzene-d5	119	9.447	9.446	0.001	88	203174	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.801	11.801	0.000	97	196743	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.499	5.492	0.007	94	184840	230.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.888	5.882	0.006	96	178762	199.8	
$ 7 Toluene-d8 (Surr)	98	7.981	7.980	0.001	94	868933	268.8	
$ 8 4-Bromofluorobenzene (Surr	95	10.652	10.651	0.001	90	231223	208.5	
11 Chloromethane	50		1.319				ND	
12 Vinyl chloride	62		1.410				ND	
14 Bromomethane	94		1.660				ND	
15 Chloroethane	64		1.739				ND	
20 Acrolein	56		2.359				ND	
21 1,1-Dichloroethene	96		2.414				ND	
30 Methylene Chloride	84	2.993	2.992	0.000	93	20706	4.49	
33 trans-1,2-Dichloroethene	96		3.339				ND	
32 Acrylonitrile	53		3.314				ND	
36 1,1-Dichloroethane	63		3.965				ND	
49 Chloroform	83		5.291				ND	
50 1,1,1-Trichloroethane	97		5.437				ND	
53 Carbon tetrachloride	117		5.620				ND	
54 Benzene	78		5.875				ND	
55 1,2-Dichloroethane	62		5.985				ND	
61 Trichloroethene	130		6.666				ND	
64 1,2-Dichloropropane	63		6.952				ND	
68 Dichlorobromomethane	83		7.262				ND	
70 2-Chloroethyl vinyl ether	63		7.597				ND	
74 trans-1,3-Dichloropropene	75		7.725				ND	
73 Toluene	91		8.047				ND	
71 cis-1,3-Dichloropropene	75		8.327				ND	
76 1,1,2-Trichloroethane	97		8.516				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
77 Tetrachloroethene	164		8.558				ND	
81 Chlorodibromomethane	129		8.881				ND	
84 Chlorobenzene	112		9.477				ND	
86 Ethylbenzene	106		9.592				ND	
90 Bromoform	173		10.298				ND	
93 1,1,2,2-Tetrachloroethane	83		10.803				ND	
105 1,3-Dichlorobenzene	146		11.716				ND	
107 1,4-Dichlorobenzene	146		11.825				ND	
111 1,2-Dichlorobenzene	146		12.172				ND	

Reagents:

VOA8260INT_00032	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260SURR_00035	Amount Added: 10.00	Units: uL	Run Reagent

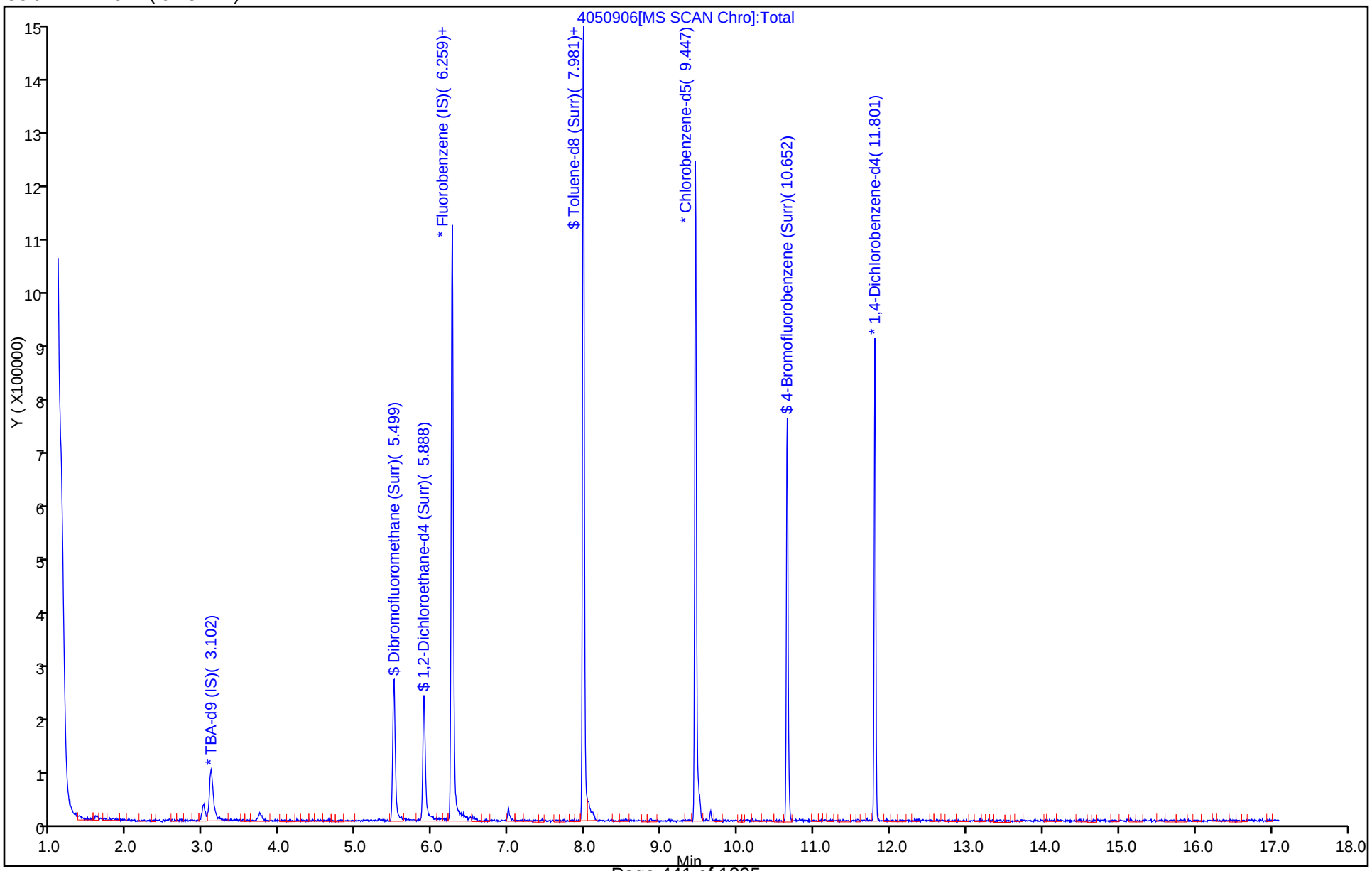
Report Date: 10-May-2015 11:35:27 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050906.D

Injection Date:	09-May-2015 14:27:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	180-43702-J-4	Lab Sample ID:	180-43702-4	Worklist Smp#:	6
Client ID:	FB-02				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 180-43702-5

Matrix: Water | Lab File ID: 4050908.D

Analysis Method: 8260C | Date Collected: 04/30/2015 17:30

Sample wt/vol: 5(mL) | Date Analyzed: 05/09/2015 15:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 141065 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.93
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
75-34-3	1,1-Dichloroethane	ND		5.0	1.0
75-35-4	1,1-Dichloroethene	ND		5.0	1.1
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.68
107-06-2	1,2-Dichloroethane	ND		5.0	0.96
78-87-5	1,2-Dichloropropane	ND		5.0	1.3
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.51
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.53
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.9
107-02-8	Acrolein	ND		100	5.7
107-13-1	Acrylonitrile	ND		50	9.0
71-43-2	Benzene	ND		5.0	0.99
75-25-2	Bromoform	ND		5.0	1.1
74-83-9	Bromomethane	ND		5.0	1.6
56-23-5	Carbon tetrachloride	ND		5.0	1.1
108-90-7	Chlorobenzene	ND		5.0	0.53
67-66-3	Chloroform	ND		5.0	1.0
74-87-3	Chloromethane	ND		5.0	1.4
124-48-1	Chlorodibromomethane	ND		5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.73
75-27-4	Dichlorobromomethane	ND		5.0	0.93
100-41-4	Ethylbenzene	ND		5.0	0.62
75-09-2	Methylene Chloride	ND		5.0	1.1
127-18-4	Tetrachloroethene	ND		5.0	0.82
108-88-3	Toluene	ND		5.0	0.85
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	0.58
79-01-6	Trichloroethene	ND		5.0	0.80
75-01-4	Vinyl chloride	ND		5.0	1.3
75-00-3	Chloroethane	ND		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 180-43702-5

Matrix: Water Lab File ID: 4050908.D

Analysis Method: 8260C Date Collected: 04/30/2015 17:30

Sample wt/vol: 5(mL) Date Analyzed: 05/09/2015 15:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 141065 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		62-123
460-00-4	4-Bromofluorobenzene (Surr)	81		75-120
1868-53-7	Dibromofluoromethane (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	111		80-120

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050908.D
Lims ID: 180-43702-A-5 Lab Sample ID: 180-43702-5
Client ID: TRIP BLANK
Sample Type: Client
Inject. Date: 09-May-2015 15:21:30 ALS Bottle#: 15 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-43702-A-5
Misc. Info.: 180-0006844-008
Operator ID: 034635 Instrument ID: CHHP4

Method: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 10-May-2015 11:35:24 Calib Date: 27-Apr-2015 13:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20150427-6642.b\4042710.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: journetp Date: 10-May-2015 10:49:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.108	3.144	-0.036	97	132142	5000.0	
* 2 Fluorobenzene (IS)	96	6.259	6.259	0.000	97	913138	250.0	
* 3 Chlorobenzene-d5	119	9.447	9.446	0.001	89	179811	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.801	11.801	0.000	97	170838	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.499	5.492	0.007	93	172487	229.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.888	5.882	0.006	95	166782	198.9	
$ 7 Toluene-d8 (Surr)	98	7.981	7.980	0.001	94	794823	277.8	
$ 8 4-Bromofluorobenzene (Surr	95	10.651	10.651	0.000	87	199646	203.4	
11 Chloromethane	50		1.319				ND	
12 Vinyl chloride	62		1.410				ND	
14 Bromomethane	94		1.660				ND	
15 Chloroethane	64		1.739				ND	
20 Acrolein	56		2.359				ND	
21 1,1-Dichloroethene	96		2.414				ND	
30 Methylene Chloride	84	3.004	2.992	0.012	95	17028	2.39	
33 trans-1,2-Dichloroethene	96		3.339				ND	
32 Acrylonitrile	53		3.314				ND	
36 1,1-Dichloroethane	63		3.965				ND	
49 Chloroform	83	5.292	5.291	0.001	3	1900	1.19	
50 1,1,1-Trichloroethane	97		5.437				ND	
53 Carbon tetrachloride	117		5.620				ND	
54 Benzene	78		5.875				ND	
55 1,2-Dichloroethane	62		5.985				ND	
61 Trichloroethene	130		6.666				ND	
64 1,2-Dichloropropane	63		6.952				ND	
68 Dichlorobromomethane	83		7.262				ND	
70 2-Chloroethyl vinyl ether	63		7.597				ND	
74 trans-1,3-Dichloropropene	75		7.725				ND	
73 Toluene	91		8.047				ND	
71 cis-1,3-Dichloropropene	75		8.327				ND	
76 1,1,2-Trichloroethane	97		8.516				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
77 Tetrachloroethene	164		8.558				ND	
81 Chlorodibromomethane	129		8.881				ND	
84 Chlorobenzene	112		9.477				ND	
86 Ethylbenzene	106		9.592				ND	
90 Bromoform	173		10.298				ND	
93 1,1,2,2-Tetrachloroethane	83		10.803				ND	
105 1,3-Dichlorobenzene	146		11.716				ND	
107 1,4-Dichlorobenzene	146		11.825				ND	
111 1,2-Dichlorobenzene	146		12.172				ND	

Reagents:

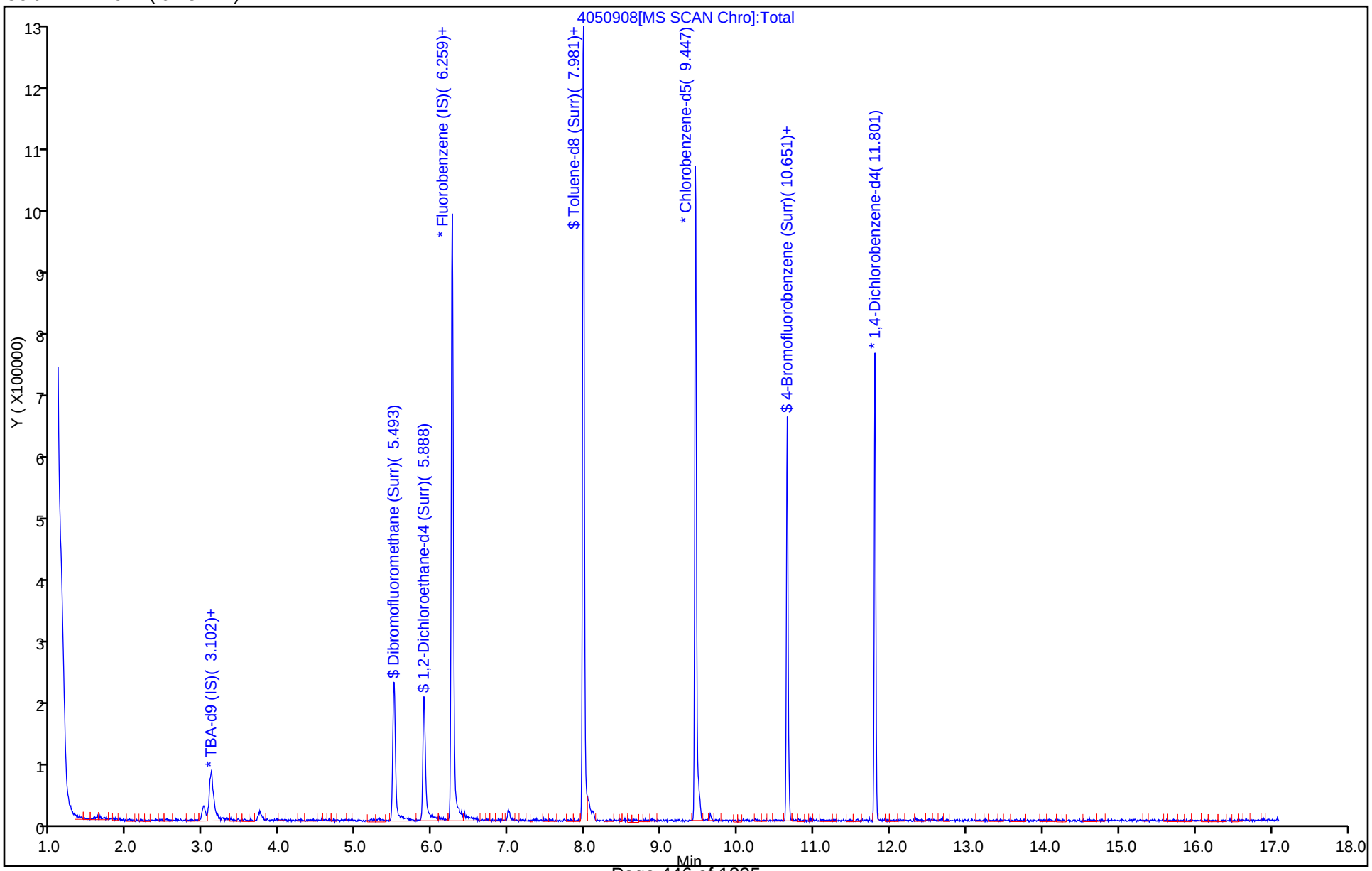
VOA8260INT_00032	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260SURR_00035	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 10-May-2015 11:35:29 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050908.D				
Injection Date:	09-May-2015 15:21:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	180-43702-A-5	Lab Sample ID:	180-43702-5	Worklist Smp#:	8
Client ID:	TRIP BLANK				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 123648

SDG No.:

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/03/2014 12:22 Calibration End Date: 11/03/2014 16:24 Calibration ID: 19030

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-123648/4	4110304.D
Level 2	IC 180-123648/5	4110305.D
Level 3	IC 180-123648/6	4110306.D
Level 4	ICIS 180-123648/7	4110307.D
Level 5	IC 180-123648/12	4110312.D
Level 6	IC 180-123648/9	4110309.D
Level 7	IC 180-123648/10	4110310.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3916 0.3730	0.3342 0.3902	0.3594	0.4125	0.3744	Ave		0.3765			0.1000	6.7		20.0			
Chloromethane	0.6315 0.5016	0.5483 0.4960	0.5372	0.6040	0.5270	Ave		0.5494			0.1000	9.3		20.0			
Vinyl chloride	0.4917 0.3415	0.3981 0.3554	0.3731	0.4266	0.3434	Ave		0.3900			0.1000	14.0		20.0			
1,3-Butadiene	0.4856 0.3565	0.3770 0.3608	0.3825	0.4310	0.3522	Ave		0.3922			0.0100	13.0		20.0			
Bromomethane	0.0655 +++++	0.0533 +++++	0.0507	0.0542	0.0531	Ave		0.0553			0.0500	11.0		20.0			
Chloroethane	0.0708 0.0551	0.0604 0.0552	0.0574	0.0660	0.0755	Qua	0.8453	0.0596	-0.000004		0.0500				0.9950		0.9900
Trichlorofluoromethane	0.1601 0.2229	0.1588 0.1936	0.1779	0.2140	0.2392	Ave		0.1952			0.1000	16.0		20.0			
Dichlorofluoromethane	0.2197 0.2275	0.1992 +++++	0.2285	0.2381	0.2692	Ave		0.2304			0.0100	10.0		20.0			
Ethyl ether	0.0981 0.0965	0.1041 0.0925	0.1048	0.1053	0.1038	Ave		0.1007			0.0100	5.0		20.0			
Acrolein	0.0108 0.0132	0.0150 +++++	0.0123	0.0144	0.0102	Ave		0.0127			0.0100	15.0		20.0			
1,1-Dichloroethene	0.2214 0.2443	0.2064 0.2233	0.2352	0.2617	0.2829	Qua	-1.941	0.2787	-0.000043		0.1000				0.9990		0.9900
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2679 0.2753	0.2658 0.2862	0.2868	0.3280	0.3067	Ave		0.2881			0.1000	7.8		20.0			
Acetone	0.1871 0.0518	0.1059 0.0546	0.0768	0.0674	0.0805	Qua	4.1365	0.0465	0.0000035	*	0.0500				0.9920		0.9900
Iodomethane	0.4215 0.4526	0.4488 0.4727	0.4446	0.5011	0.4489	Ave		0.4557			0.0100	5.5		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 123648

SDG No.:

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/03/2014 12:22 Calibration End Date: 11/03/2014 16:24 Calibration ID: 19030

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	0.7866 1.0125	0.7343 1.0147	0.8459	1.0332	1.0007	Ave		0.9183			0.1000	14.0		20.0			
Allyl chloride	0.1768 0.2211	0.1728 0.2493	0.2006	0.2271	0.2121	Qua	0.1445	0.1992	0.0000398		0.0100				1.0000		0.9900
Methyl acetate	0.1735 0.1383	0.1727 0.1308	0.1580	0.1651	0.1434	Ave		0.1546			0.1000	11.0		20.0			
Methylene Chloride	0.9639 0.3241	0.5562 0.3265	0.4070	0.3979	0.3486	Qua	15.957	0.2866	0.0000216		0.1000				1.0000		0.9900
tert-Butyl alcohol	2.1242 1.3898	1.7331 1.3714	1.5128	1.4893	1.1437	Ave		1.5378			0.0100	20.0		20.0			
Acrylonitrile	0.0813 0.0613	0.0770 0.0593	0.0685	0.0735	0.0620	Qua	8.7898	0.0621	0		0.0100				0.9990		0.9900
trans-1,2-Dichloroethene	0.3550 0.3417	0.3143 0.3365	0.3275	0.3760	0.3452	Ave		0.3423			0.1000	5.8		20.0			
Methyl tert-butyl ether	0.5882 0.5061	0.5709 0.5014	0.5428	0.5835	0.5089	Ave		0.5431			0.1000	7.0		20.0			
Vinyl acetate	0.6128 0.4664	0.4936 0.4562	0.4657	0.5346	0.4840	Lin2	3.2964	0.4645			0.0100				0.9940		0.9900
Hexane	0.9554 0.6825	0.7052 0.6542	0.6846	0.7945	0.7299	Qua	4.5270	0.7167	-0.000054		0.0100				0.9990		0.9900
1,1-Dichloroethane	0.6573 0.6096	0.6080 0.6014	0.6074	0.6821	0.6249	Ave		0.6272			0.2000	4.9		20.0			
2,2-Dichloropropane	0.2388 0.2548	0.2056 0.2447	0.2208	0.2551	0.2449	Ave		0.2378			0.0100	7.7		20.0			
cis-1,2-Dichloroethene	0.3857 0.3258	0.3435 0.3253	0.3304	0.3641	0.3278	Ave		0.3432			0.1000	6.8		20.0			
2-Butanone (MEK)	0.1495 0.0765	0.1193 0.0757	0.0899	0.0832	0.0964	Qua	2.3265	0.0758	-0.000002		0.0500				0.9980		0.9900
Chlorobromomethane	0.1238 0.1163	0.1225 0.1164	0.1154	0.1249	0.1085	Ave		0.1183			0.0100	4.9		20.0			
Tetrahydrofuran	0.0654 0.0493	0.0586 0.0498	0.0534	0.0588	0.0500	Ave		0.0550			0.0100	11.0		20.0			
Chloroform	0.5884 0.4413	0.4781 0.4325	0.4614	0.4949	0.4444	Ave		0.4773			0.2000	11.0		20.0			
1,1,1-Trichloroethane	0.3567 0.3711	0.3133 0.3804	0.3371	0.3917	0.3615	Ave		0.3588			0.1000	7.4		20.0			
Cyclohexane	0.8893 0.7513	0.7786 0.7338	0.7809	0.8964	0.7795	Ave		0.8014			0.1000	8.1		20.0			
Carbon tetrachloride	0.2969 0.3426	0.2702 0.3566	0.2968	0.3491	0.3334	Ave		0.3208			0.1000	10.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 123648

SDG No.:

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/03/2014 12:22 Calibration End Date: 11/03/2014 16:24 Calibration ID: 19030

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	0.4646 0.4313	0.4039 0.4121	0.4176	0.4844	0.4373	Ave		0.4359			0.0100	6.7		20.0			
Benzene	1.5720 1.0847	1.3231 0.9019	1.3147	1.3998	1.2581	Ave		1.2649			0.5000	17.0		20.0			
Isobutyl alcohol	0.0059 0.0045	0.0052 0.0046	0.0051	0.0048	0.0043	Ave		0.0049		*	0.0100	11.0		20.0			
1,2-Dichloroethane	0.2904 0.2335	0.2699 0.2366	0.2414	0.2554	0.2328	Ave		0.2514			0.1000	8.7		20.0			
n-Heptane	0.8501 0.6567	0.7495 0.5746	0.7242	0.8034	0.7256	Ave		0.7263			0.0100	13.0		20.0			
Trichloroethene	0.3570 0.2868	0.2712 0.2722	0.2797	0.3190	0.2996	Ave		0.2979			0.2000	10.0		20.0			
Methylcyclohexane	0.7498 0.5821	0.6339 0.5388	0.6276	0.7088	0.6265	Ave		0.6382			0.1000	11.0		20.0			
1,2-Dichloropropane	0.4333 0.3107	0.3424 0.3001	0.3373	0.3562	0.3242	Ave		0.3435			0.1000	13.0		20.0			
Dibromomethane	0.1240 0.1087	0.1157 0.1101	0.1118	0.1140	0.1001	Ave		0.1121			0.0100	6.5		20.0			
1,4-Dioxane	0.0021 0.0015	0.0017 0.0016	0.0015	0.0017	0.0014	Qua	0.4371	0.0014	0	*	0.0100				0.9990		0.9900
Dichlorobromomethane	0.2708 0.2723	0.2532 0.2740	0.2510	0.2770	0.2689	Ave		0.2667			0.2000	3.9		20.0			
2-Chloroethyl vinyl ether	0.1118 0.1076	0.1099 0.1043	0.1007	0.1175	0.1078	Ave		0.1085			0.0100	4.9		20.0			
trans-1,3-Dichloropropene	1.8709 1.6054	1.5679 1.5174	1.6422	1.6508	1.6046	Qua	-2.292	1.6817	-0.000129		0.1000				1.0000		0.9900
4-Methyl-2-pentanone (MIBK)	0.9389 0.6750	0.8698 0.6454	0.8053	0.7381	0.7327	Ave		0.7722			0.1000	14.0		20.0			
Toluene	8.2791 4.1901	6.3911 3.2696	6.0036	5.7427	5.3905	Qua	122.09	5.0593	-0.001519		0.4000				0.9980		0.9900
cis-1,3-Dichloropropene	0.2524 0.2679	0.2401 0.2683	0.2390	0.2644	0.2533	Ave		0.2551			0.2000	4.8		20.0			
Ethyl methacrylate	1.3684 0.9977	1.2268 0.9482	1.1506	1.0840	1.0633	Qua	12.014	1.0282	-0.000072		0.0100				1.0000		0.9900
1,1,2-Trichloroethane	1.0055 0.7202	0.9210 0.6875	0.8631	0.8026	0.7509	Ave		0.8216			0.1000	14.0		20.0			
Tetrachloroethene	1.4698 0.9943	1.0610 0.9290	1.1117	1.1286	1.0536	Ave		1.1069			0.2000	16.0		20.0			
1,3-Dichloropropane	1.8637 1.2668	1.5512 1.2014	1.5262	1.4071	1.3593	Ave		1.4536			0.0100	15.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 123648

SDG No.:

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/03/2014 12:22 Calibration End Date: 11/03/2014 16:24 Calibration ID: 19030

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.6323 0.4345	0.5103 0.4407	0.5184	0.4624	0.5205	Qua	8.2266	0.4332	0		0.1000				0.9990		0.9900
Chlorodibromomethane	0.6813 0.6841	0.5476 0.7057	0.6457	0.6498	0.6584	Ave		0.6532			0.1000	7.8		20.0			
1,2-Dibromoethane	0.9327 0.6476	0.7660 0.6574	0.7386	0.6675	0.6493	Ave		0.7227			0.1000	14.0		20.0			
Chlorobenzene	4.6314 2.6001	3.7056 +++++	3.4980	3.2485	3.0837	Lin2	44.564	2.8774			0.5000				0.9910		0.9900
1,1,1,2-Tetrachloroethane	1.3008 0.9014	1.0783 0.8275	1.0665	1.0174	0.9948	Ave		1.0267			0.0100	15.0		20.0			
Ethylbenzene	3.0695 1.7035	2.3054 1.4109	2.2621	2.1838	2.0340	Qua	36.211	1.9715	-0.000474		0.1000				0.9990		0.9900
m-Xylene & p-Xylene	3.5800 2.2299	2.8763 1.9994	2.8001	2.6871	2.5084	Ave		2.6687			0.1000	19.0		20.0			
o-Xylene	3.5368 1.9949	2.7853 1.7043	2.6868	2.4792	2.3670	Qua	46.399	2.2440	-0.000464		0.3000				0.9990		0.9900
Styrene	5.2863 +++++	4.1428 +++++	4.0069	3.6445	3.4693	Ave		4.1100			0.3000	17.0		20.0			
Bromoform	0.2796 0.3578	0.2551 0.3989	0.2955	0.2970	0.3060	Ave		0.3128			0.1000	16.0		20.0			
Isopropylbenzene	9.2420 4.2150	7.0308 +++++	6.8078	6.1528	5.6428	Qua	67.048	6.4596	-0.003769		0.1000				0.9990		0.9900
Bromobenzene	1.4477 0.8918	1.1741 0.8538	1.0510	1.0237	0.9458	Ave		1.0554			0.0100	19.0		20.0			
1,1,2,2-Tetrachloroethane	1.1091 0.7183	0.9710 0.7195	0.9132	0.8080	0.7840	Ave		0.8604			0.3000	17.0		20.0			
trans-1,4-Dichloro-2-butene	0.1744 0.1491	0.1358 0.1666	0.1364	0.1336	0.1289	Ave		0.1464			0.0100	12.0		20.0			
1,2,3-Trichloropropane	0.2739 0.1772	0.2266 0.1822	0.2033	0.1960	0.1785	Qua	3.5867	0.1657	0.0000108		0.0100				1.0000		0.9900
N-Propylbenzene	2.3248 1.3011	1.7275 +++++	1.6675	1.5692	1.4702	Lin2	23.101	1.3741			0.0100				0.9930		0.9900
2-Chlorotoluene	1.7651 1.0236	1.3908 +++++	1.2745	1.2022	1.1161	Ave		1.2954			0.0100	20.0		20.0			
1,3,5-Trimethylbenzene	6.4607 2.8985	4.8291 2.1404	4.4244	4.1268	3.7713	Qua	103.25	3.5652	-0.001212		0.0100				0.9980		0.9900
4-Chlorotoluene	1.6663 0.9278	1.3197 0.8052	1.1813	1.1473	1.0393	Qua	20.288	1.0179	-0.000184		0.0100				1.0000		0.9900
tert-Butylbenzene	5.9542 2.7858	4.3542 2.1982	4.0137	3.7445	3.4626	Qua	87.271	3.2785	-0.000924		0.0100				0.9990		0.9900

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 123648

SDG No.:

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/03/2014 12:22 Calibration End Date: 11/03/2014 16:24 Calibration ID: 19030

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	6.1626 2.9597	4.7212 2.3074	4.3208	4.0118	3.6898	Qua	93.299	3.5129	-0.001029		0.0100				0.9990		0.9900
sec-Butylbenzene	8.9904 3.7356	6.5084 2.7414	6.0968	5.5510	5.0451	Qua	163.88	4.6067	-0.001607		0.0100				0.9970		0.9900
1,3-Dichlorobenzene	2.9221 1.6957	2.2092 1.5156	2.1169	1.9447	1.8867	Qua	30.182	1.8235	-0.000266		0.6000				1.0000		0.9900
4-Isopropyltoluene	7.0624 3.1153	5.0159 2.3553	4.7406	4.4088	4.0458	Qua	111.90	3.7834	-0.001221		0.0100				0.9980		0.9900
1,4-Dichlorobenzene	2.8266 1.6335	2.1376 1.4846	2.0163	1.8501	1.7909	Lin2	30.074	1.6217			0.5000				0.9940		0.9900
1,2-Dichlorobenzene	2.5618 1.4306	2.0231 1.2474	1.8268	1.7174	1.6239	Qua	30.597	1.5652	-0.000275		0.4000				1.0000		0.9900
n-Butylbenzene	6.3276 2.9939	4.6796 2.2458	4.4579	4.1330	3.8445	Qua	92.683	3.6676	-0.001202		0.0100				0.9990		0.9900
1,2-Dibromo-3-Chloropropane	0.0652 0.0600	0.0607 0.0668	0.0596	0.0526	0.0547	Qua	0.3221	0.0515	0.0000121		0.0500				1.0000		0.9900
1,2,4-Trichlorobenzene	0.8849 0.6920	0.7468 0.6939	0.7441	0.6990	0.6906	Ave		0.7359			0.2000	9.5		20.0			
Hexachlorobutadiene	1.1598 0.6796	0.9121 0.6473	0.8304	0.7921	0.7368	Lin2	11.988	0.6866			0.0100				0.9960		0.9900
Naphthalene	1.4545 1.0577	1.1383 1.0160	1.1397	1.0845	1.0188	Qua	5.2781	1.0639	-0.000041		0.0100				1.0000		0.9900
1,2,3-Trichlorobenzene	0.7009 0.5283	0.5389 0.5191	0.5576	0.5437	0.5162	Qua	2.4492	0.5261	-0.000007		0.0100				1.0000		0.9900
Dibromofluoromethane (Surr)	0.2095 0.2048	0.1935 0.2027	0.2124	0.2277	0.2046	Ave		0.2079				5.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.1897 0.1868	0.1988 0.1823	0.1954	0.2019	0.1798	Ave		0.1907				4.4		20.0			
Toluene-d8 (Surr)	5.0797 3.3056	4.1320 2.6848	4.7054	4.3113	3.8441	Ave		4.0090				20.0		20.0			
4-Bromofluorobenzene (Surr)	1.5877 1.2807	1.3688 1.2538	1.5156	1.4330	1.3435	Ave		1.3976				8.7		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 123648

SDG No.:

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/03/2014 12:22 Calibration End Date: 11/03/2014 16:24 Calibration ID: 19030

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-123648/4	4110304.D
Level 2	IC 180-123648/5	4110305.D
Level 3	IC 180-123648/6	4110306.D
Level 4	ICIS 180-123648/7	4110307.D
Level 5	IC 180-123648/12	4110312.D
Level 6	IC 180-123648/9	4110309.D
Level 7	IC 180-123648/10	4110310.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	77008 1733176	109931 3392540	316343	544615	689688	25.0 625	50.0 1250	125	200	250
Chloromethane	FB	Ave	124171 2330249	180374 4312184	472810	797392	970825	25.0 625	50.0 1250	125	200	250
Vinyl chloride	FB	Ave	96687 1586609	130970 3089600	328377	563241	632565	25.0 625	50.0 1250	125	200	250
1,3-Butadiene	FB	Ave	95494 1656316	124022 3136694	336615	569038	648753	25.0 625	50.0 1250	125	200	250
Bromomethane	FB	Ave	12887 +++++	17523 +++++	44636	71494	97759	25.0 +++++	50.0 +++++	125	200	250
Chloroethane	FB	Qua	13928 255990	19867 479613	50534	87111	139075	25.0 625	50.0 1250	125	200	250
Trichlorofluoromethane	FB	Ave	31482 1035575	52252 1683014	156608	282519	440612	25.0 625	50.0 1250	125	200	250
Dichlorofluoromethane	FB	Ave	43211 1057158	65518 +++++	201068	314349	495933	25.0 625	50.0 +++++	125	200	250
Ethyl ether	FB	Ave	19286 448564	34251 804307	92279	139022	191154	25.0 625	50.0 1250	125	200	250
Acrolein	FB	Ave	42659 110388	61831 +++++	64925	83233	75280	500 1125	625 +++++	750	875	1000
1,1-Dichloroethene	FB	Qua	43538 1135190	67911 1941678	206982	345488	521168	25.0 625	50.0 1250	125	200	250
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	52679 1279042	87444 2487932	252456	432989	564911	25.0 625	50.0 1250	125	200	250
Acetone	FB	Qua	36783 240731	34836 474414	67552	88962	148344	25.0 625	50.0 1250	125	200	250
Iodomethane	FB	Ave	82885 2102863	147656 4109897	391294	661539	826838	25.0 625	50.0 1250	125	200	250
Carbon disulfide	FB	Ave	154686 4703940	241578 8821688	744471	1364034	1843252	25.0 625	50.0 1250	125	200	250

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 123648

SDG No.:

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/03/2014 12:22 Calibration End Date: 11/03/2014 16:24 Calibration ID: 19030

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Allyl chloride	FB	Qua	34763 1027463	56847 2167520	176559	299800	390645	25.0 625	50.0 1250	125	200	250
Methyl acetate	FB	Ave	170627 3212406	284082 5685537	695481	1090047	1320665	125 3125	250 6250	625	1000	1250
Methylene Chloride	FB	Qua	189545 1505632	182980 2838966	358205	525297	642165	25.0 625	50.0 1250	125	200	250
tert-Butyl alcohol	TBA	Ave	34778 603688	54665 1169407	122541	199618	203750	250 6250	500 12500	1250	2000	2500
Acrylonitrile	FB	Qua	159916 2847212	253271 5156002	602591	970140	1141964	250 6250	500 12500	1250	2000	2500
trans-1,2-Dichloroethene	FB	Ave	69802 1587582	103396 2925765	288205	496423	635834	25.0 625	50.0 1250	125	200	250
Methyl tert-butyl ether	FB	Ave	115666 2351395	187815 4359497	477712	770319	937481	25.0 625	50.0 1250	125	200	250
Vinyl acetate	FB	Lin2	120511 2166786	162373 3966624	409835	705725	891442	25.0 625	50.0 1250	125	200	250
Hexane	FB	Qua	187879 3170746	231987 5687369	602524	1048917	1344500	25.0 625	50.0 1250	125	200	250
1,1-Dichloroethane	FB	Ave	129255 2832176	200004 5229058	534573	900495	1151152	25.0 625	50.0 1250	125	200	250
2,2-Dichloropropane	FB	Ave	46963 1184024	67651 2127222	194359	336789	451179	25.0 625	50.0 1250	125	200	250
cis-1,2-Dichloroethene	FB	Ave	75839 1513530	113017 2828423	290755	480617	603817	25.0 625	50.0 1250	125	200	250
2-Butanone (MEK)	FB	Qua	29394 355386	39244 657940	79127	109787	177619	25.0 625	50.0 1250	125	200	250
Chlorobromomethane	FB	Ave	24335 540361	40316 1011666	101583	164896	199944	25.0 625	50.0 1250	125	200	250
Tetrahydrofuran	FB	Ave	25715 457987	38581 866670	93950	155132	184331	50.0 1250	100 2500	250	400	500
Chloroform	FB	Ave	115713 2050276	157284 3760354	406135	653358	818661	25.0 625	50.0 1250	125	200	250
1,1,1-Trichloroethane	FB	Ave	70142 1724054	103073 3307587	296710	517077	665866	25.0 625	50.0 1250	125	200	250
Cyclohexane	FB	Ave	174867 3490471	256129 6379678	687337	1183341	1435801	25.0 625	50.0 1250	125	200	250
Carbon tetrachloride	FB	Ave	58390 1591703	88906 3099947	261206	460908	614115	25.0 625	50.0 1250	125	200	250
1,1-Dichloropropene	FB	Ave	91351 2003880	132891 3582918	367552	639484	805469	25.0 625	50.0 1250	125	200	250
Benzene	FB	Ave	309117 5039564	435268 7840886	1157091	1847904	2317492	25.0 625	50.0 1250	125	200	250

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 123648

SDG No.:

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/03/2014 12:22 Calibration End Date: 11/03/2014 16:24 Calibration ID: 19030

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	29128 519324	42376 1006186	112799	158464	199535	625 15625	1250 31250	3125	5000	6250
1,2-Dichloroethane	FB	Ave	57100 1085070	88793 2057245	212433	337212	428789	25.0 625	50.0 1250	125	200	250
n-Heptane	FB	Ave	167161 3050882	246581 4995867	637362	1060664	1336577	25.0 625	50.0 1250	125	200	250
Trichloroethene	FB	Ave	70202 1332487	89235 2366628	246174	421095	551869	25.0 625	50.0 1250	125	200	250
Methylcyclohexane	FB	Ave	147450 2704544	208546 4684311	552406	935722	1154026	25.0 625	50.0 1250	125	200	250
1,2-Dichloropropane	FB	Ave	85209 1443702	112656 2608895	296852	470284	597118	25.0 625	50.0 1250	125	200	250
Dibromomethane	FB	Ave	24387 505201	38075 957656	98410	150562	184345	25.0 625	50.0 1250	125	200	250
1,4-Dioxane	FB	Qua	8103 141379	11249 284445	27143	45936	50203	500 12500	1000 25000	2500	4000	5000
Dichlorobromomethane	FB	Ave	53243 1265293	83306 2381841	220935	365633	495371	25.0 625	50.0 1250	125	200	250
2-Chloroethyl vinyl ether	FB	Ave	43960 999550	72298 1814167	177306	310229	396960	50.0 1250	100 2500	250	400	500
trans-1,3-Dichloropropene	CBZ	Qua	80092 1715895	115869 3066001	309476	512949	667130	25.0 625	50.0 1250	125	200	250
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	40191 721478	64274 1304037	151766	229333	304640	25.0 625	50.0 1250	125	200	250
Toluene	CBZ	Qua	354416 4478637	472299 6606546	1131387	1784371	2241088	25.0 625	50.0 1250	125	200	250
cis-1,3-Dichloropropene	FB	Ave	49626 1244582	78999 2332929	210351	349002	466600	25.0 625	50.0 1250	125	200	250
Ethyl methacrylate	CBZ	Qua	58581 1066379	90656 1915843	216833	336808	442080	25.0 625	50.0 1250	125	200	250
1,1,2-Trichloroethane	CBZ	Ave	43046 769743	68064 1389170	162661	249383	312197	25.0 625	50.0 1250	125	200	250
Tetrachloroethene	CBZ	Ave	62919 1062778	78409 1877219	209493	350679	438023	25.0 625	50.0 1250	125	200	250
1,3-Dichloropropane	CBZ	Ave	79781 1354026	114632 2427460	287607	437206	565116	25.0 625	50.0 1250	125	200	250
2-Hexanone	CBZ	Qua	27068 464430	37708 890566	97701	143692	216393	25.0 625	50.0 1250	125	200	250
Chlorodibromomethane	CBZ	Ave	29166 731242	40465 1425951	121676	201910	273736	25.0 625	50.0 1250	125	200	250
1,2-Dibromoethane	CBZ	Ave	39929 692151	56604 1328246	139182	207407	269950	25.0 625	50.0 1250	125	200	250

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 123648

SDG No.:

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/03/2014 12:22 Calibration End Date: 11/03/2014 16:24 Calibration ID: 19030

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBZ	Lin2	198262 2779120	273838 +++++	659208	1009382	1282060	25.0 625	50.0 +++++	125	200	250
1,1,1,2-Tetrachloroethane	CBZ	Ave	55685 963508	79686 1672023	200974	316138	413573	25.0 625	50.0 1250	125	200	250
Ethylbenzene	CBZ	Qua	131399 1820775	170367 2850802	426297	678539	845631	25.0 625	50.0 1250	125	200	250
m-Xylene & p-Xylene	CBZ	Ave	153254 2383414	212553 4040005	527675	834919	1042884	25.0 625	50.0 1250	125	200	250
o-Xylene	CBZ	Qua	151405 2132292	205828 3443753	506325	770324	984099	25.0 625	50.0 1250	125	200	250
Styrene	CBZ	Ave	226297 +++++	306152 +++++	755106	1132409	1442360	25.0 +++++	50.0 +++++	125	200	250
Bromoform	CBZ	Ave	11971 382388	18849 806062	55692	92297	127202	25.0 625	50.0 1250	125	200	250
Isopropylbenzene	CBZ	Qua	395637 4505204	519573 +++++	1282942	1911788	2346017	25.0 625	50.0 +++++	125	200	250
Bromobenzene	DCB	Ave	69666 1127170	99350 2060126	239705	378393	471458	25.0 625	50.0 1250	125	200	250
1,1,2,2-Tetrachloroethane	CBZ	Ave	47477 767713	71759 1453855	172095	251065	325964	25.0 625	50.0 1250	125	200	250
trans-1,4-Dichloro-2-butene	DCB	Ave	8394 188479	11488 402007	31104	49372	64248	25.0 625	50.0 1250	125	200	250
1,2,3-Trichloropropane	DCB	Qua	13181 224027	19177 439678	46369	72436	88980	25.0 625	50.0 1250	125	200	250
N-Propylbenzene	DCB	Lin2	111875 1644536	146176 +++++	380320	579997	732865	25.0 625	50.0 +++++	125	200	250
2-Chlorotoluene	DCB	Ave	84943 1293841	117690 +++++	290688	444370	556330	25.0 625	50.0 +++++	125	200	250
1,3,5-Trimethylbenzene	DCB	Qua	310903 3663629	408624 5164561	1009118	1525320	1879886	25.0 625	50.0 1250	125	200	250
4-Chlorotoluene	DCB	Qua	80187 1172679	111670 1942800	269426	424064	518059	25.0 625	50.0 1250	125	200	250
tert-Butylbenzene	DCB	Qua	286531 3521083	368439 5304007	915451	1384037	1726019	25.0 625	50.0 1250	125	200	250
1,2,4-Trimethylbenzene	DCB	Qua	296561 3740947	399497 5567438	985498	1482846	1839274	25.0 625	50.0 1250	125	200	250
sec-Butylbenzene	DCB	Qua	432642 4721692	550728 6614693	1390567	2051735	2514863	25.0 625	50.0 1250	125	200	250
1,3-Dichlorobenzene	DCB	Qua	140617 2143238	186936 3657059	482823	718776	940494	25.0 625	50.0 1250	125	200	250
4-Isopropyltoluene	DCB	Qua	339862 3937573	424431 5683062	1081239	1629566	2016739	25.0 625	50.0 1250	125	200	250

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 123648

SDG No.:

Instrument ID: CHHP4 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/03/2014 12:22 Calibration End Date: 11/03/2014 16:24 Calibration ID: 19030

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Lin2	136025 2064671	180878 3582102	459873	683824	892716	25.0 625	50.0 1250	125	200	250
1,2-Dichlorobenzene	DCB	Qua	123281 1808226	171194 3009861	416666	634776	809456	25.0 625	50.0 1250	125	200	250
n-Butylbenzene	DCB	Qua	304502 3784161	395979 5418916	1016771	1527628	1916377	25.0 625	50.0 1250	125	200	250
1,2-Dibromo-3-Chloropropane	DCB	Qua	3139 75884	5136 161249	13583	19434	27287	25.0 625	50.0 1250	125	200	250
1,2,4-Trichlorobenzene	DCB	Ave	42584 874689	63194 1674198	169713	258363	344249	25.0 625	50.0 1250	125	200	250
Hexachlorobutadiene	DCB	Lin2	55812 859016	77177 1561854	189406	292767	367257	25.0 625	50.0 1250	125	200	250
Naphthalene	DCB	Qua	69995 1336874	96317 2451542	259950	400841	507856	25.0 625	50.0 1250	125	200	250
1,2,3-Trichlorobenzene	DCB	Qua	33729 667810	45602 1252459	127175	200974	257321	25.0 625	50.0 1250	125	200	250
Dibromofluoromethane (Surr)	FB	Ave	41194 951487	63642 1762628	186929	300577	376917	25.0 625	50.0 1250	125	200	250
1,2-Dichloroethane-d4 (Surr)	FB	Ave	37301 868109	65396 1584927	171974	266578	331198	25.0 625	50.0 1250	125	200	250
Toluene-d8 (Surr)	CBZ	Ave	217455 3533198	305351 5424801	886737	1339596	1598196	25.0 625	50.0 1250	125	200	250
4-Bromofluorobenzene (Surr)	CBZ	Ave	67968 1368902	101150 2533468	285621	445255	558566	25.0 625	50.0 1250	125	200	250

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110304.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Nov-2014 12:22:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0004149-004
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub33

Method: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Nov-2014 16:25:13 Calib Date: 03-Nov-2014 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: journetp Date: 03-Nov-2014 12:19:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.195	3.168	0.027	98	327451	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	6.255	6.258	-0.003	98	1966404	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.449	9.452	-0.003	87	428086	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.803	11.806	-0.003	95	481225	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.494	5.492	0.002	93	41194	25.0	25.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.890	5.887	0.003	37	37301	25.0	24.9	
$ 7 Toluene-d8 (Surr)	98	7.983	7.980	0.003	92	217455	25.0	31.7	
$ 8 4-Bromofluorobenzene (Surr	95	10.653	10.650	0.003	88	67968	25.0	28.4	
10 Dichlorodifluoromethane	85	1.212	1.209	0.003	88	77008	25.0	26.0	
11 Chloromethane	50	1.303	1.318	-0.015	99	124171	25.0	28.7	
12 Vinyl chloride	62	1.406	1.416	-0.010	98	96687	25.0	31.5	
13 Butadiene	54	1.431	1.434	-0.003	92	95494	25.0	31.0	
14 Bromomethane	94	1.650	1.659	-0.009	84	12887	25.0	29.6	
15 Chloroethane	64	1.735	1.744	-0.009	61	13928	25.0	15.6	
17 Trichlorofluoromethane	101	1.917	1.921	-0.004	95	31482	25.0	20.5	
16 Dichlorofluoromethane	67	1.948	1.957	-0.009	96	43211	25.0	23.8	
19 Ethyl ether	59	2.240	2.225	0.015	94	19286	25.0	24.3	
20 Acrolein	56	2.367	2.365	0.002	85	42659	500.0	428.1	M
21 1,1-Dichloroethene	96	2.410	2.419	-0.009	95	43538	25.0	26.9	
22 1,1,2-Trichloro-1,2,2-trif	101	2.471	2.486	-0.015	93	52679	25.0	23.2	
23 Acetone	43	2.526	2.529	-0.003	96	36783	25.0	11.6	M
24 Iodomethane	142	2.556	2.559	-0.003	95	82885	25.0	23.1	
25 Carbon disulfide	76	2.611	2.620	-0.009	100	154686	25.0	21.4	
28 3-Chloro-1-propene	76	2.824	2.833	-0.009	94	34763	25.0	21.4	
29 Methyl acetate	43	2.872	2.870	0.002	99	170627	125.0	140.4	
30 Methylene Chloride	84	2.988	2.991	-0.003	99	189545	25.0	28.3	
31 2-Methyl-2-propanol	59	3.286	3.265	0.021	95	34778	250.0	345.3	
32 Acrylonitrile	53	3.323	3.326	-0.003	98	159916	250.0	186.0	
33 trans-1,2-Dichloroethene	96	3.335	3.332	0.003	90	69802	25.0	25.9	
34 Methyl tert-butyl ether	73	3.371	3.368	0.003	96	115666	25.0	27.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
38 Vinyl acetate	43	3.712	3.727	-0.015	94	120511	25.0	25.9	
35 Hexane	57	3.730	3.727	0.003	82	187879	25.0	27.1	
36 1,1-Dichloroethane	63	3.974	3.971	0.003	95	129255	25.0	26.2	
41 2,2-Dichloropropane	77	4.807	4.804	0.003	56	46963	25.0	25.1	
42 cis-1,2-Dichloroethene	96	4.807	4.816	-0.009	82	75839	25.0	28.1	
43 2-Butanone (MEK)	43	4.874	4.859	0.015	88	29394	25.0	18.6	
46 Chlorobromomethane	128	5.129	5.127	0.002	89	24335	25.0	26.2	
48 Tetrahydrofuran	42	5.166	5.157	0.009	82	25715	50.0	59.4	
49 Chloroform	83	5.300	5.303	-0.003	93	115713	25.0	30.8	
50 1,1,1-Trichloroethane	97	5.440	5.449	-0.009	97	70142	25.0	24.9	
51 Cyclohexane	56	5.513	5.516	-0.003	92	174867	25.0	27.7	
53 Carbon tetrachloride	117	5.628	5.625	0.003	97	58390	25.0	23.1	
52 1,1-Dichloropropene	75	5.646	5.650	-0.004	94	91351	25.0	26.6	
54 Benzene	78	5.878	5.881	-0.003	98	309117	25.0	31.1	
59 Isobutyl alcohol	41	5.951	5.942	0.009	96	29128	625.0	752.7	
55 1,2-Dichloroethane	62	5.987	5.984	0.003	94	57100	25.0	28.9	
58 n-Heptane	43	6.291	6.295	-0.004	91	167161	25.0	29.3	
61 Trichloroethene	130	6.669	6.666	0.002	97	70202	25.0	30.0	
63 Methylcyclohexane	83	6.900	6.903	-0.003	95	147450	25.0	29.4	
64 1,2-Dichloropropane	63	6.961	6.958	0.002	96	85209	25.0	31.5	
65 Dibromomethane	93	7.046	7.043	0.003	92	24387	25.0	27.7	
67 1,4-Dioxane	88	7.070	7.067	0.003	37	8103	500.0	435.0	M
68 Dichlorobromomethane	83	7.259	7.262	-0.003	95	53243	25.0	25.4	
70 2-Chloroethyl vinyl ether	63	7.599	7.596	0.003	91	43960	50.0	51.5	
74 trans-1,3-Dichloropropene	75	7.727	7.724	0.003	93	80092	25.0	29.2	
72 4-Methyl-2-pentanone (MIBK	43	7.903	7.901	0.002	96	40191	25.0	30.4	
73 Toluene	91	8.049	8.047	0.002	96	354416	25.0	16.9	
71 cis-1,3-Dichloropropene	75	8.329	8.327	0.003	92	49626	25.0	24.7	
75 Ethyl methacrylate	69	8.408	8.412	-0.004	92	58581	25.0	21.6	
76 1,1,2-Trichloroethane	97	8.518	8.521	-0.003	89	43046	25.0	30.6	
77 Tetrachloroethene	164	8.560	8.564	-0.004	96	62919	25.0	33.2	
78 1,3-Dichloropropane	76	8.670	8.673	-0.003	94	79781	25.0	32.1	
79 2-Hexanone	43	8.755	8.752	0.003	96	27068	25.0	17.5	
81 Chlorodibromomethane	129	8.883	8.880	0.003	93	29166	25.0	26.1	
82 Ethylene Dibromide	107	8.986	8.984	0.002	95	39929	25.0	32.3	
84 Chlorobenzene	112	9.479	9.482	-0.003	95	198262	25.0	24.8	
85 1,1,1,2-Tetrachloroethane	131	9.582	9.586	-0.004	94	55685	25.0	31.7	
86 Ethylbenzene	106	9.595	9.592	0.003	98	131399	25.0	20.7	
87 m-Xylene & p-Xylene	106	9.728	9.732	-0.004	100	153254	25.0	33.5	
88 o-Xylene	106	10.106	10.109	-0.003	98	151405	25.0	18.8	
89 Styrene	104	10.130	10.133	-0.003	95	226297	25.0	32.2	
90 Bromoform	173	10.300	10.304	-0.004	97	11971	25.0	22.3	
91 Isopropylbenzene	105	10.483	10.480	0.003	96	395637	25.0	25.8	
94 Bromobenzene	156	10.775	10.772	0.003	95	69666	25.0	34.3	
93 1,1,2,2-Tetrachloroethane	83	10.805	10.809	-0.004	94	47477	25.0	32.2	
96 trans-1,4-Dichloro-2-buten	53	10.848	10.845	0.003	67	8394	25.0	29.8	
95 1,2,3-Trichloropropane	110	10.854	10.851	0.003	89	13181	25.0	19.7	
97 N-Propylbenzene	120	10.897	10.900	-0.003	99	111875	25.0	25.5	
98 2-Chlorotoluene	126	10.970	10.973	-0.003	96	84943	25.0	34.1	
99 1,3,5-Trimethylbenzene	105	11.091	11.088	0.003	95	310903	25.0	16.4	
100 4-Chlorotoluene	126	11.097	11.101	-0.004	98	80187	25.0	21.1	
101 tert-Butylbenzene	119	11.395	11.393	0.002	94	286531	25.0	18.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 1,2,4-Trimethylbenzene	105	11.456	11.459	-0.003	97	296561	25.0	17.4	
104 sec-Butylbenzene	105	11.620	11.618	0.002	94	432642	25.0	13.3	
105 1,3-Dichlorobenzene	146	11.718	11.721	-0.003	99	140617	25.0	23.6	
106 4-Isopropyltoluene	119	11.785	11.782	0.003	97	339862	25.0	17.2	
107 1,4-Dichlorobenzene	146	11.827	11.831	-0.004	96	136025	25.0	25.0	
111 1,2-Dichlorobenzene	146	12.174	12.171	0.003	97	123281	25.0	21.5	
110 n-Butylbenzene	91	12.186	12.190	-0.004	98	304502	25.0	18.0	
112 1,2-Dibromo-3-Chloropropan	75	12.965	12.968	-0.003	68	3139	25.0	25.3	
113 1,2,4-Trichlorobenzene	180	13.780	13.777	0.003	92	42584	25.0	30.1	
115 Hexachlorobutadiene	225	13.932	13.929	0.003	96	55812	25.0	24.8	
116 Naphthalene	128	14.036	14.033	0.003	96	69995	25.0	29.3	
117 1,2,3-Trichlorobenzene	180	14.249	14.252	-0.004	95	33729	25.0	28.7	
S 129 1,2-Dichloroethene, Total	96				0		50.0	54.0	
S 130 Xylenes, Total	106				0		50.0	52.3	
S 131 1,3-Dichloropropene, Total	1				0		50.0	54.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00022	Amount Added:	10.00	Units: uL
VOA8260SURR_00017	Amount Added:	1.00	Units: uL
voaWVOA Pri R_00001	Amount Added:	1.00	Units: uL
VOAACROPRI_00002	Amount Added:	20.00	Units: uL
voaWVA pri Re_00004	Amount Added:	1.00	Units: uL
voaW2-cle PRi_00002	Amount Added:	1.00	Units: uL

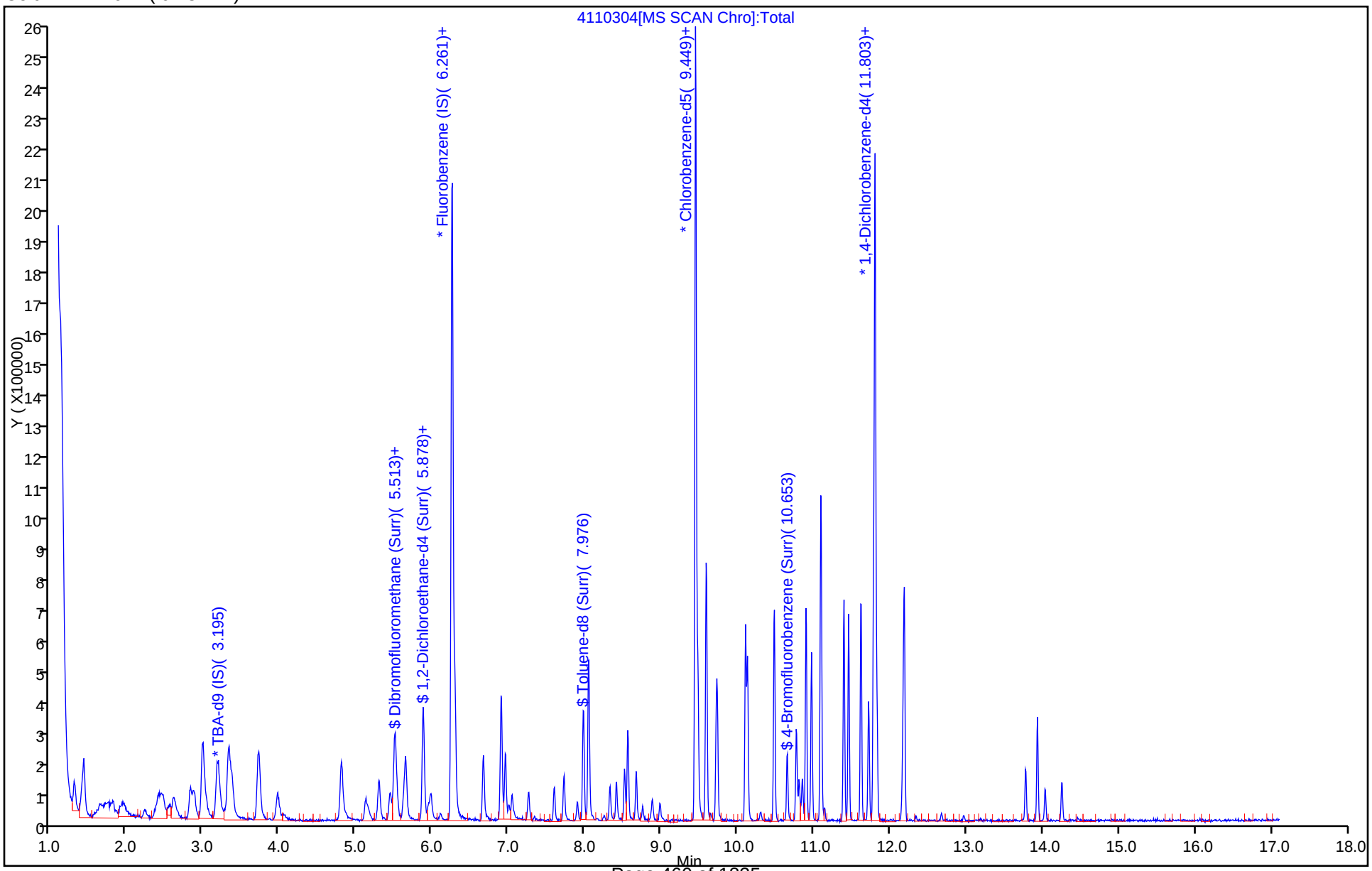
Report Date: 03-Nov-2014 16:25:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110304.D

Injection Date:	03-Nov-2014 12:22:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

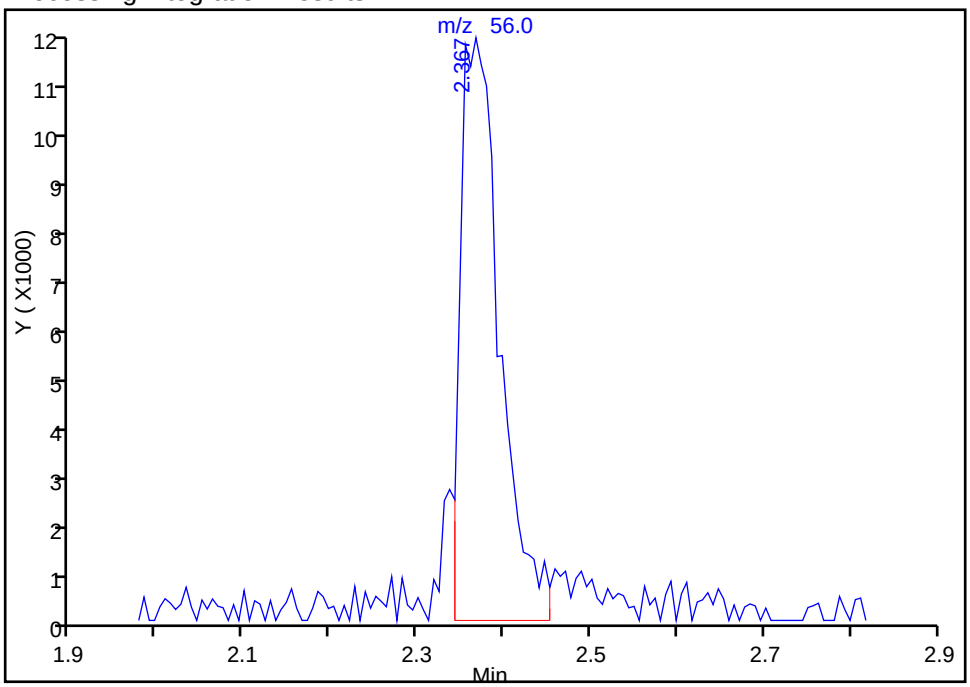
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110304.D
Injection Date: 03-Nov-2014 12:22:30 Instrument ID: CHHP4
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP4 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

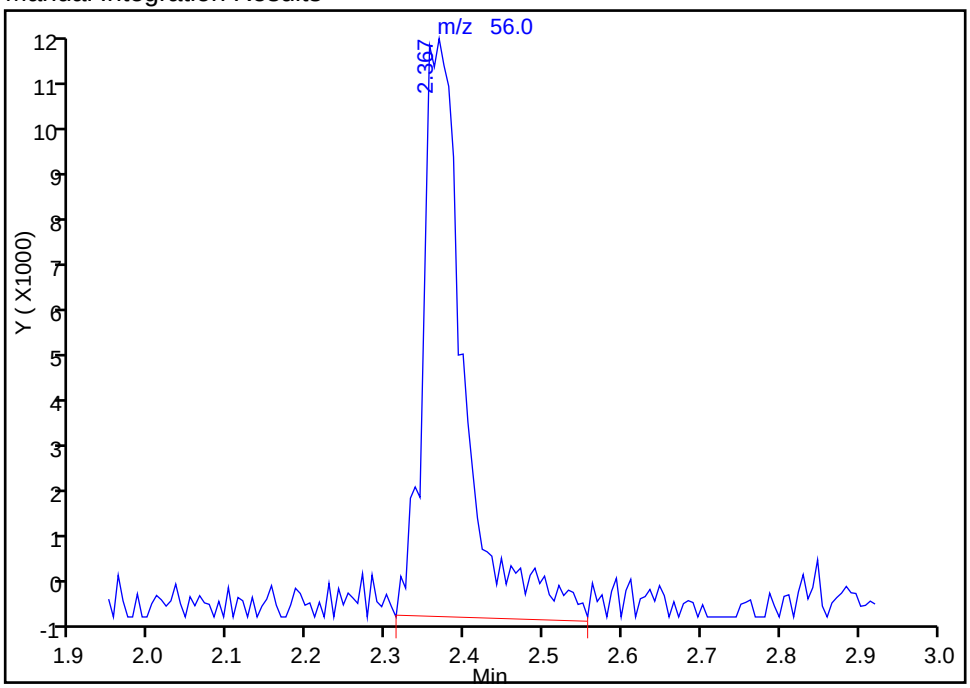
Processing Integration Results

RT: 2.37
Response: 36334
Amount: 500.0000



Manual Integration Results

RT: 2.37
Response: 42659
Amount: 428.1414



Reviewer: journetp, 03-Nov-2014 12:19:08
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

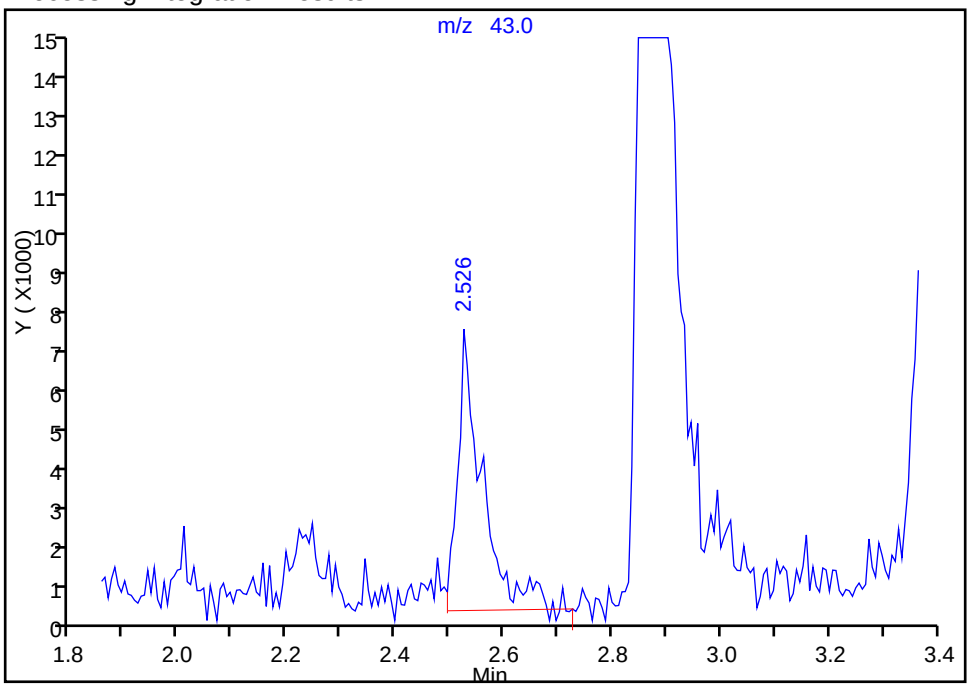
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110304.D				
Injection Date:	03-Nov-2014 12:22:30	Instrument ID:	CHHP4		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

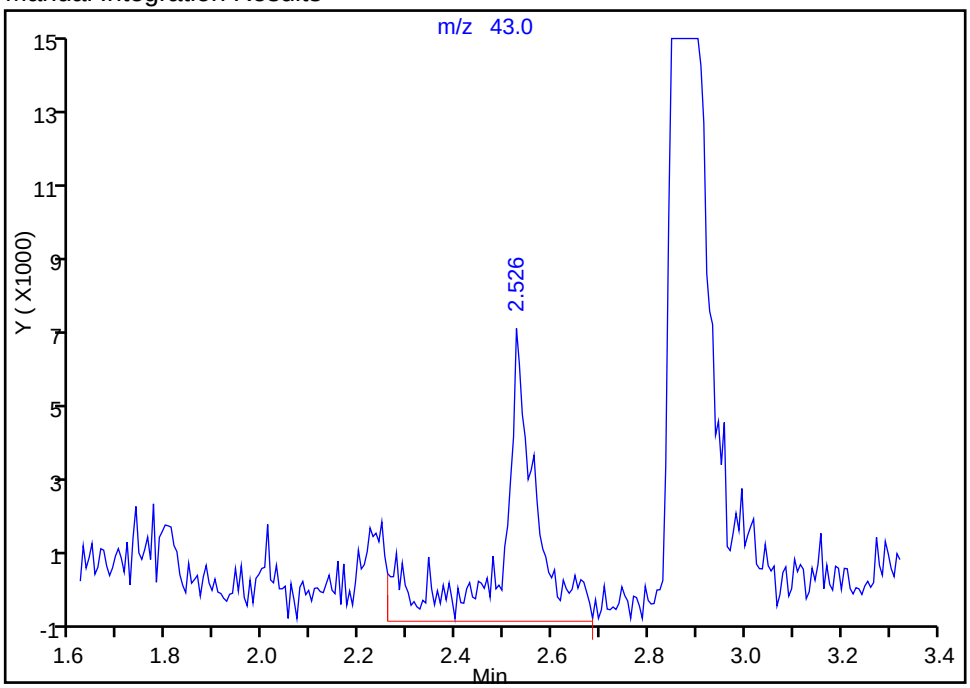
Processing Integration Results

RT: 2.53
Response: 21760
Amount: -4.911854



Manual Integration Results

RT: 2.53
Response: 36783
Amount: 11.591898



Reviewer: journetp, 03-Nov-2014 15:52:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

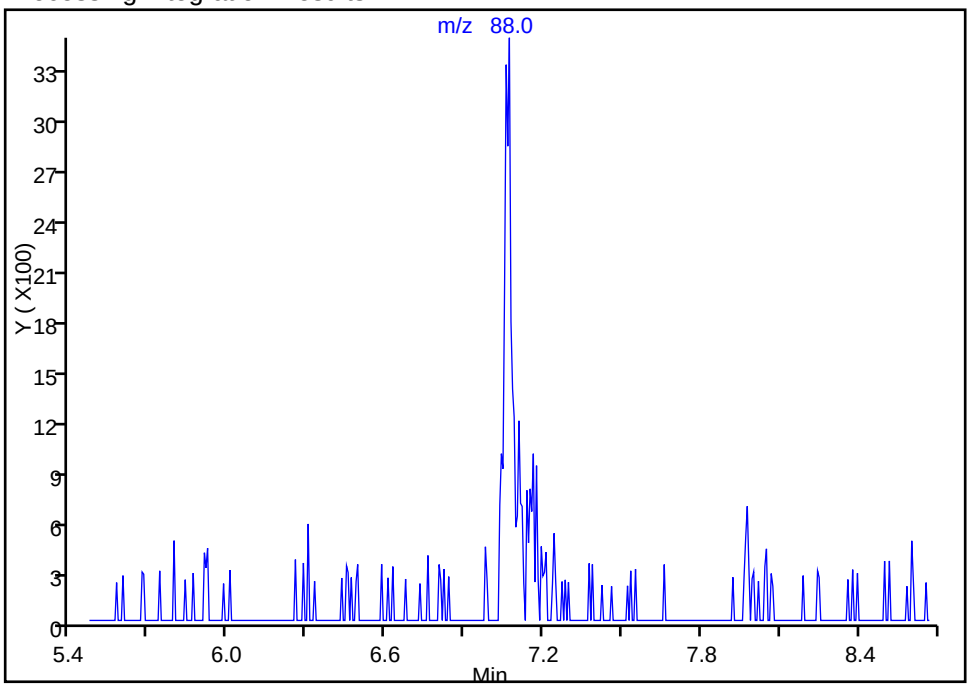
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110304.D
Injection Date: 03-Nov-2014 12:22:30 Instrument ID: CHHP4
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP4 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

67 1,4-Dioxane, CAS: 123-91-1

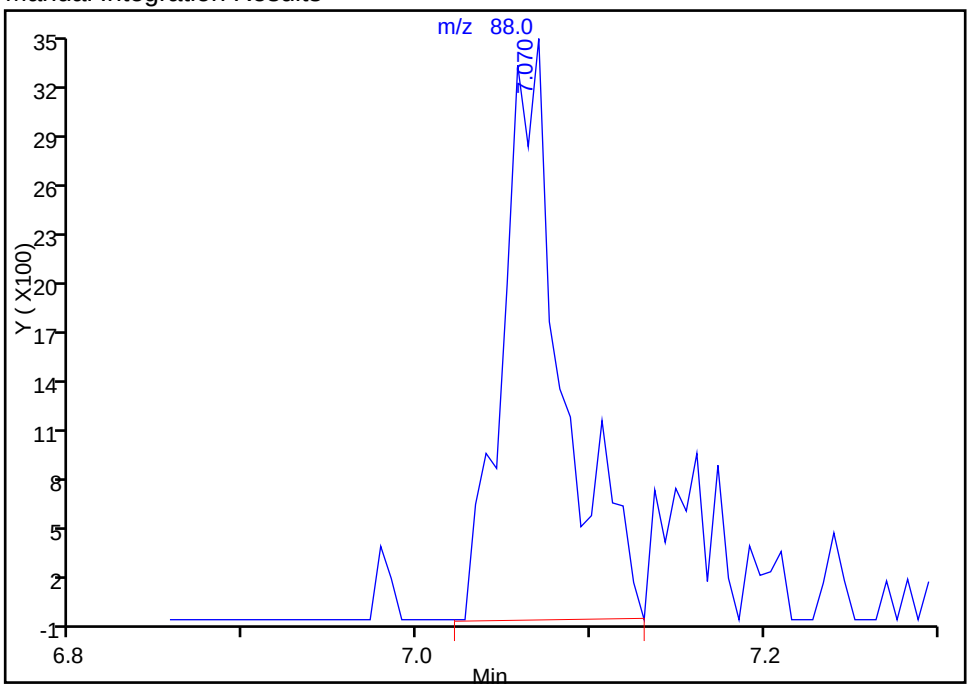
Not Detected
Expected RT: 7.07

Processing Integration Results



Manual Integration Results

RT: 7.07
Response: 8103
Amount: 434.9932



Reviewer: journetp, 03-Nov-2014 12:19:08
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110305.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 03-Nov-2014 12:49:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0004149-005
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub33

Method: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Nov-2014 16:25:14 Calib Date: 03-Nov-2014 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: journetp Date: 03-Nov-2014 12:19:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.168	3.168	0.000	96	315410	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	6.259	6.258	0.001	98	1644900	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.453	9.452	0.001	86	369496	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.801	11.806	-0.005	96	423089	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.498	5.492	0.006	93	63642	50.0	46.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.894	5.887	0.007	39	65396	50.0	52.1	
$ 7 Toluene-d8 (Surr)	98	7.980	7.980	0.000	93	305351	50.0	51.5	
$ 8 4-Bromofluorobenzene (Surr	95	10.651	10.650	0.001	89	101150	50.0	49.0	
10 Dichlorodifluoromethane	85	1.203	1.209	-0.006	98	109931	50.0	44.4	
11 Chloromethane	50	1.307	1.318	-0.011	99	180374	50.0	49.9	
12 Vinyl chloride	62	1.410	1.416	-0.006	98	130970	50.0	51.0	
13 Butadiene	54	1.435	1.434	0.001	96	124022	50.0	48.1	
14 Bromomethane	94	1.648	1.659	-0.011	93	17523	50.0	48.1	
15 Chloroethane	64	1.733	1.744	-0.011	91	19867	50.0	36.6	
17 Trichlorofluoromethane	101	1.909	1.921	-0.012	94	52252	50.0	40.7	
16 Dichlorofluoromethane	67	1.946	1.957	-0.011	98	65518	50.0	43.2	
19 Ethyl ether	59	2.225	2.225	0.000	92	34251	50.0	51.7	
20 Acrolein	56	2.359	2.365	-0.006	99	61831	625.0	741.8	M
21 1,1-Dichloroethene	96	2.402	2.419	-0.017	95	67911	50.0	44.3	
22 1,1,2-Trichloro-1,2,2-trif	101	2.481	2.486	-0.005	94	87444	50.0	46.1	
23 Acetone	43	2.536	2.529	0.007	80	34836	50.0	24.8	
24 Iodomethane	142	2.548	2.559	-0.011	95	147656	50.0	49.2	
25 Carbon disulfide	76	2.615	2.620	-0.005	99	241578	50.0	40.0	
28 3-Chloro-1-propene	76	2.828	2.833	-0.005	94	56847	50.0	42.3	M
29 Methyl acetate	43	2.870	2.870	0.000	99	284082	250.0	279.4	
30 Methylene Chloride	84	2.986	2.991	-0.005	98	182980	50.0	41.2	
31 2-Methyl-2-propanol	59	3.272	3.265	0.007	94	54665	500.0	563.5	
32 Acrylonitrile	53	3.314	3.326	-0.012	100	253271	500.0	479.4	
33 trans-1,2-Dichloroethene	96	3.339	3.332	0.007	94	103396	50.0	45.9	
34 Methyl tert-butyl ether	73	3.375	3.368	0.007	96	187815	50.0	52.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
38 Vinyl acetate	43	3.722	3.727	-0.005	68	162373	50.0	46.0	
35 Hexane	57	3.728	3.727	0.001	93	231987	50.0	43.0	
36 1,1-Dichloroethane	63	3.984	3.971	0.013	96	200004	50.0	48.5	
41 2,2-Dichloropropane	77	4.793	4.804	-0.011	77	67651	50.0	43.2	
42 cis-1,2-Dichloroethene	96	4.811	4.816	-0.005	84	113017	50.0	50.0	
43 2-Butanone (MEK)	43	4.860	4.859	0.001	99	39244	50.0	48.1	
46 Chlorobromomethane	128	5.121	5.127	-0.006	90	40316	50.0	51.8	
48 Tetrahydrofuran	42	5.158	5.157	0.001	95	38581	100.0	106.5	
49 Chloroform	83	5.298	5.303	-0.005	93	157284	50.0	50.1	
50 1,1,1-Trichloroethane	97	5.444	5.449	-0.005	97	103073	50.0	43.7	
51 Cyclohexane	56	5.511	5.516	-0.005	92	256129	50.0	48.6	
53 Carbon tetrachloride	117	5.620	5.625	-0.005	96	88906	50.0	42.1	
52 1,1-Dichloropropene	75	5.650	5.650	0.000	95	132891	50.0	46.3	
54 Benzene	78	5.876	5.881	-0.005	97	435268	50.0	52.3	
59 Isobutyl alcohol	41	5.942	5.942	0.000	95	42376	1250.0	1309.1	
55 1,2-Dichloroethane	62	5.985	5.984	0.001	94	88793	50.0	53.7	
58 n-Heptane	43	6.295	6.295	0.000	93	246581	50.0	51.6	
61 Trichloroethene	130	6.666	6.666	0.000	97	89235	50.0	45.5	
63 Methylcyclohexane	83	6.904	6.903	0.001	95	208546	50.0	49.7	
64 1,2-Dichloropropane	63	6.952	6.958	-0.006	98	112656	50.0	49.9	
65 Dibromomethane	93	7.050	7.043	0.007	97	38075	50.0	51.6	
67 1,4-Dioxane	88	7.068	7.067	0.001	66	11249	1000.0	929.9	
68 Dichlorobromomethane	83	7.263	7.262	0.001	97	83306	50.0	47.5	
70 2-Chloroethyl vinyl ether	63	7.597	7.596	0.001	90	72298	100.0	101.3	
74 trans-1,3-Dichloropropene	75	7.725	7.724	0.001	98	115869	50.0	48.2	
72 4-Methyl-2-pentanone (MIBK	43	7.901	7.901	0.000	95	64274	50.0	56.3	
73 Toluene	91	8.047	8.047	0.000	98	472299	50.0	39.5	
71 cis-1,3-Dichloropropene	75	8.327	8.327	0.001	93	78999	50.0	47.1	
75 Ethyl methacrylate	69	8.412	8.412	0.000	93	90656	50.0	48.1	
76 1,1,2-Trichloroethane	97	8.516	8.521	-0.005	89	68064	50.0	56.1	
77 Tetrachloroethene	164	8.564	8.564	0.000	98	78409	50.0	47.9	
78 1,3-Dichloropropane	76	8.674	8.673	0.001	96	114632	50.0	53.4	
79 2-Hexanone	43	8.753	8.752	0.001	93	37708	50.0	39.9	
81 Chlorodibromomethane	129	8.881	8.880	0.001	91	40465	50.0	41.9	
82 Ethylene Dibromide	107	8.984	8.984	0.000	97	56604	50.0	53.0	
84 Chlorobenzene	112	9.477	9.482	-0.005	94	273838	50.0	48.9	
85 1,1,1,2-Tetrachloroethane	131	9.586	9.586	0.000	95	79686	50.0	52.5	
86 Ethylbenzene	106	9.593	9.592	0.001	98	170367	50.0	40.5	
87 m-Xylene & p-Xylene	106	9.732	9.732	0.000	100	212553	50.0	53.9	
88 o-Xylene	106	10.104	10.109	-0.005	97	205828	50.0	41.7	
89 Styrene	104	10.128	10.133	-0.005	96	306152	50.0	50.4	
90 Bromoform	173	10.304	10.304	0.000	95	18849	50.0	40.8	
91 Isopropylbenzene	105	10.481	10.480	0.001	95	519573	50.0	45.2	
94 Bromobenzene	156	10.773	10.772	0.001	95	99350	50.0	55.6	
93 1,1,2,2-Tetrachloroethane	83	10.809	10.809	0.000	93	71759	50.0	56.4	
96 trans-1,4-Dichloro-2-buten	53	10.846	10.845	0.001	66	11488	50.0	46.4	
95 1,2,3-Trichloropropane	110	10.852	10.851	0.001	89	19177	50.0	46.6	
97 N-Propylbenzene	120	10.901	10.900	0.000	99	146176	50.0	46.0	
98 2-Chlorotoluene	126	10.974	10.973	0.001	97	117690	50.0	53.7	
99 1,3,5-Trimethylbenzene	105	11.089	11.088	0.001	95	408624	50.0	39.3	
100 4-Chlorotoluene	126	11.095	11.101	-0.006	98	111670	50.0	45.3	
101 tert-Butylbenzene	119	11.393	11.393	0.000	94	368439	50.0	40.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 1,2,4-Trimethylbenzene	105	11.454	11.459	-0.005	97	399497	50.0	41.1	
104 sec-Butylbenzene	105	11.618	11.618	0.000	94	550728	50.0	35.5	
105 1,3-Dichlorobenzene	146	11.722	11.721	0.001	99	186936	50.0	44.3	
106 4-Isopropyltoluene	119	11.783	11.782	0.001	97	424431	50.0	37.2	
107 1,4-Dichlorobenzene	146	11.825	11.831	-0.006	96	180878	50.0	47.4	
111 1,2-Dichlorobenzene	146	12.172	12.171	0.001	97	171194	50.0	45.4	
110 n-Butylbenzene	91	12.184	12.190	-0.006	98	395979	50.0	39.0	
112 1,2-Dibromo-3-Chloropropan	75	12.963	12.968	-0.005	79	5136	50.0	52.0	
113 1,2,4-Trichlorobenzene	180	13.778	13.777	0.001	93	63194	50.0	50.7	
115 Hexachlorobutadiene	225	13.930	13.929	0.001	93	77177	50.0	49.0	
116 Naphthalene	128	14.033	14.033	0.000	96	96317	50.0	48.6	
117 1,2,3-Trichlorobenzene	180	14.253	14.252	0.000	93	45602	50.0	46.6	
S 129 1,2-Dichloroethene, Total	96				0		100.0	96.0	
S 130 Xylenes, Total	106				0		100.0	95.6	
S 131 1,3-Dichloropropene, Total	1				0		100.0	95.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00022	Amount Added:	10.00	Units: uL
VOA8260SURR_00017	Amount Added:	2.00	Units: uL
voaWVOA Pri R_00001	Amount Added:	2.00	Units: uL
VOAACROPRI_00002	Amount Added:	25.00	Units: uL
voaWVA pri Re_00004	Amount Added:	2.00	Units: uL
voaW2-cle PRi_00002	Amount Added:	2.00	Units: uL

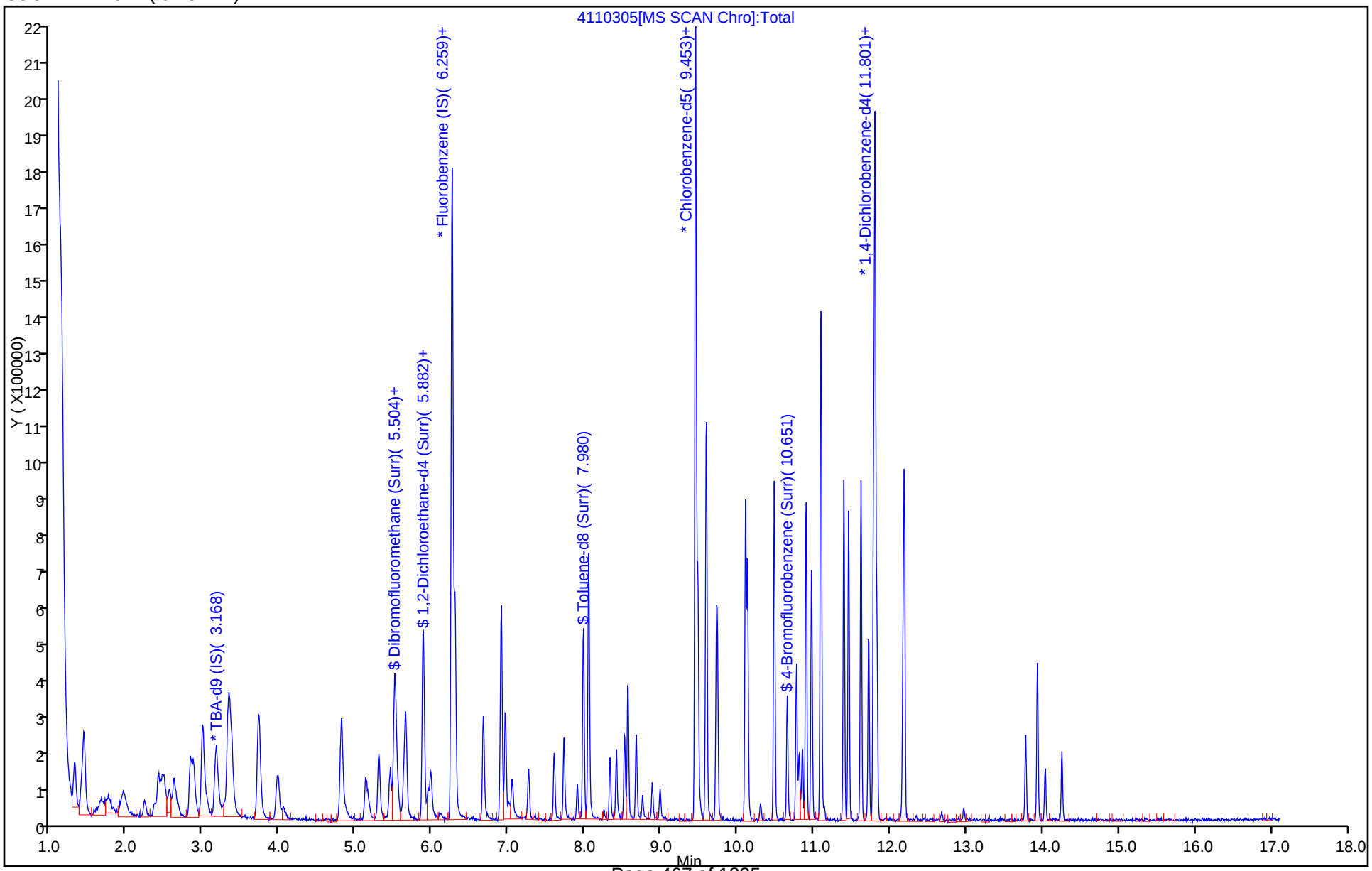
Report Date: 03-Nov-2014 16:25:15 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110305.D

Injection Date:	03-Nov-2014 12:49:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

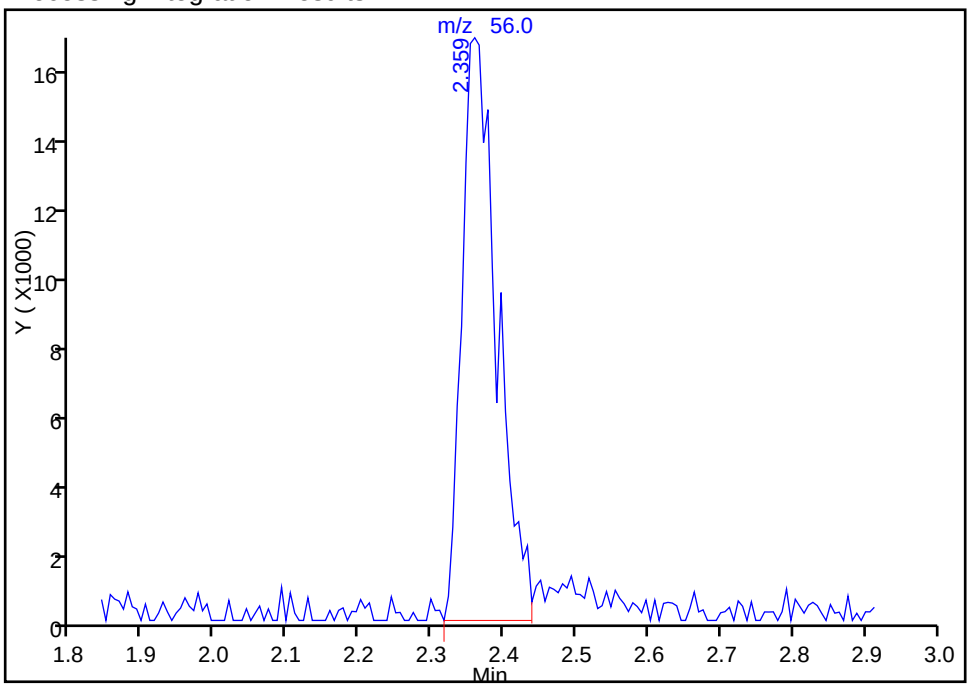
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110305.D
Injection Date: 03-Nov-2014 12:49:30 Instrument ID: CHHP4
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP4 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

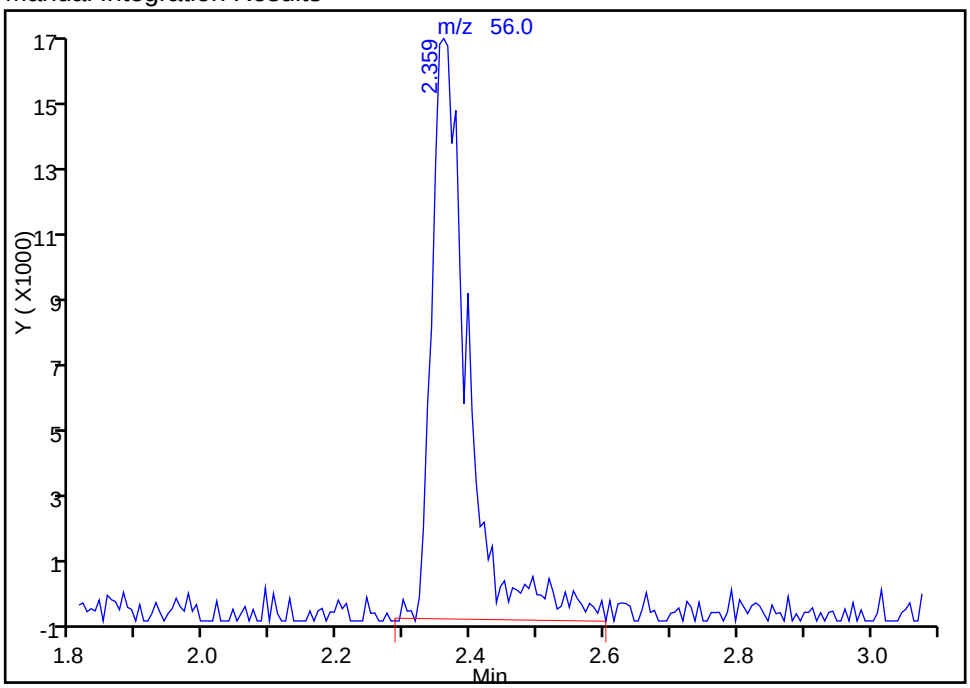
Processing Integration Results

RT: 2.36
Response: 55401
Amount: 695.3284



Manual Integration Results

RT: 2.36
Response: 61831
Amount: 741.8499



Reviewer: journetp, 03-Nov-2014 15:54:08
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

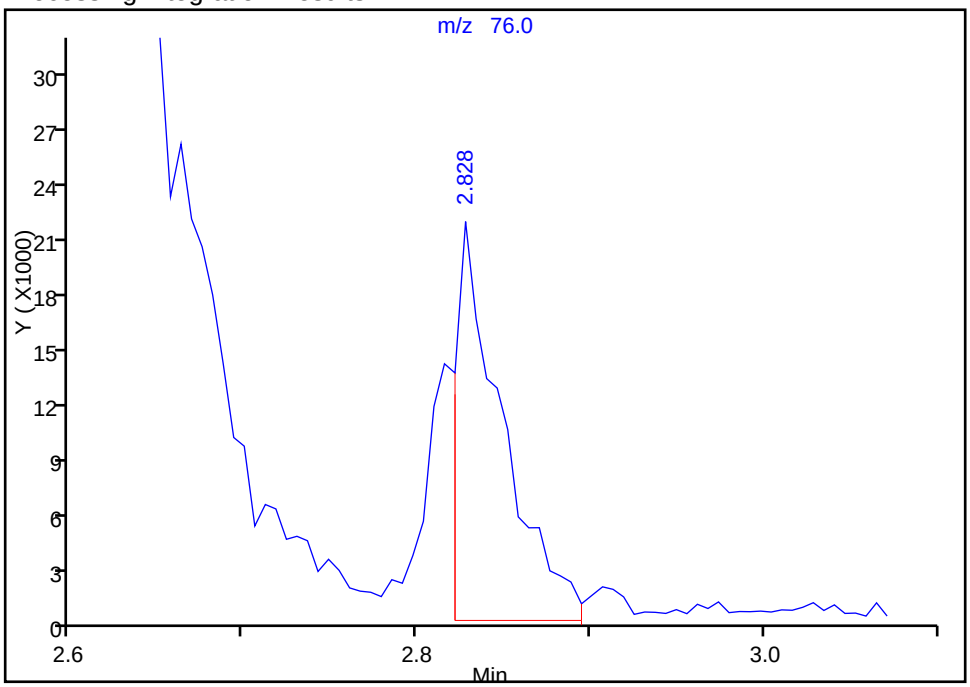
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110305.D
Injection Date: 03-Nov-2014 12:49:30 Instrument ID: CHHP4
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP4 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

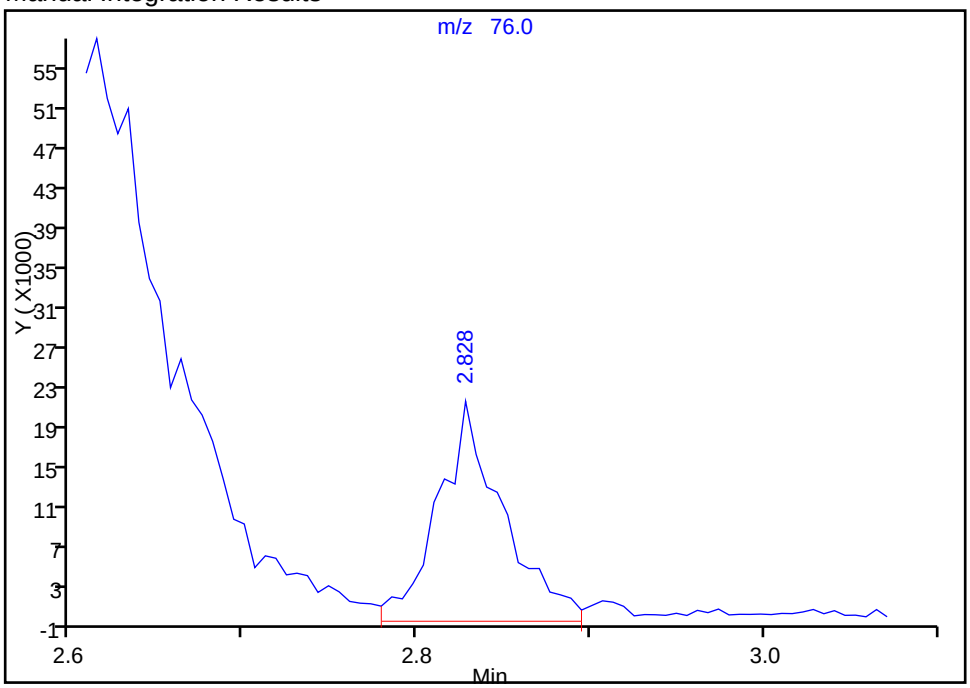
Processing Integration Results

RT: 2.83
Response: 40731
Amount: 41.188353



Manual Integration Results

RT: 2.83
Response: 56847
Amount: 42.298901



Reviewer: journetp, 03-Nov-2014 12:19:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110306.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 03-Nov-2014 13:15:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0004149-006
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub33

Method: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Nov-2014 16:25:15 Calib Date: 03-Nov-2014 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: journetp Date: 03-Nov-2014 14:13:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.162	3.168	-0.006	98	324008	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	6.258	6.258	0.000	98	1760261	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.452	9.452	0.000	86	376902	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.800	11.806	-0.006	97	456162	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.498	5.492	0.006	94	186929	125.0	127.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.887	5.887	0.000	95	171974	125.0	128.1	
$ 7 Toluene-d8 (Surr)	98	7.980	7.980	0.000	93	886737	125.0	146.7	
$ 8 4-Bromofluorobenzene (Surr	95	10.651	10.650	0.000	87	285621	125.0	135.6	
10 Dichlorodifluoromethane	85	1.203	1.209	-0.006	100	316343	125.0	119.3	
11 Chloromethane	50	1.312	1.318	-0.006	99	472810	125.0	122.2	
12 Vinyl chloride	62	1.410	1.416	-0.006	98	328377	125.0	119.6	
13 Butadiene	54	1.434	1.434	0.000	95	336615	125.0	121.9	
14 Bromomethane	94	1.653	1.659	-0.006	93	44636	125.0	114.5	
15 Chloroethane	64	1.738	1.744	-0.006	97	50534	125.0	107.1	
17 Trichlorofluoromethane	101	1.915	1.921	-0.006	93	156608	125.0	113.9	
16 Dichlorofluoromethane	67	1.957	1.957	0.000	99	201068	125.0	124.0	M
19 Ethyl ether	59	2.231	2.225	0.006	97	92279	125.0	130.1	
20 Acrolein	56	2.365	2.365	0.000	97	64925	750.0	727.9	
21 1,1-Dichloroethene	96	2.407	2.419	-0.012	94	206982	125.0	114.5	
22 1,1,2-Trichloro-1,2,2-trif	101	2.480	2.486	-0.006	94	252456	125.0	124.5	
23 Acetone	43	2.529	2.529	0.000	98	67552	125.0	116.3	
24 Iodomethane	142	2.559	2.559	0.000	95	391294	125.0	121.9	
25 Carbon disulfide	76	2.614	2.620	-0.006	99	744471	125.0	115.1	
28 3-Chloro-1-propene	76	2.833	2.833	0.000	94	176559	125.0	122.2	
29 Methyl acetate	43	2.870	2.870	0.000	99	695481	625.0	639.1	
30 Methylene Chloride	84	2.991	2.991	0.000	99	358205	125.0	120.7	
31 2-Methyl-2-propanol	59	3.271	3.265	0.006	97	122541	1250.0	1229.7	
32 Acrylonitrile	53	3.320	3.326	-0.006	99	602591	1250.0	1243.6	
33 trans-1,2-Dichloroethene	96	3.332	3.332	0.000	98	288205	125.0	119.6	
34 Methyl tert-butyl ether	73	3.369	3.368	0.001	97	477712	125.0	124.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
38 Vinyl acetate	43	3.728	3.727	0.001	68	409835	125.0	118.2	
35 Hexane	57	3.728	3.727	0.001	93	602524	125.0	114.1	
36 1,1-Dichloroethane	63	3.977	3.971	0.006	96	534573	125.0	121.0	
41 2,2-Dichloropropane	77	4.804	4.804	0.000	81	194359	125.0	116.1	
42 cis-1,2-Dichloroethene	96	4.810	4.816	-0.006	82	290755	125.0	120.3	
43 2-Butanone (MEK)	43	4.859	4.859	0.000	99	79127	125.0	117.9	
46 Chlorobromomethane	128	5.127	5.127	0.000	92	101583	125.0	122.0	
48 Tetrahydrofuran	42	5.157	5.157	0.000	93	93950	250.0	242.4	
49 Chloroform	83	5.297	5.303	-0.006	94	406135	125.0	120.8	
50 1,1,1-Trichloroethane	97	5.443	5.449	-0.006	99	296710	125.0	117.4	
51 Cyclohexane	56	5.516	5.516	0.000	92	687337	125.0	121.8	
53 Carbon tetrachloride	117	5.626	5.625	0.001	98	261206	125.0	115.6	
52 1,1-Dichloropropene	75	5.650	5.650	0.000	94	367552	125.0	119.8	
54 Benzene	78	5.881	5.881	0.000	98	1157091	125.0	129.9	
59 Isobutyl alcohol	41	5.942	5.942	0.000	97	112799	3125.0	3256.3	
55 1,2-Dichloroethane	62	5.978	5.984	-0.006	95	212433	125.0	120.0	
58 n-Heptane	43	6.295	6.295	0.000	95	637362	125.0	124.6	
61 Trichloroethene	130	6.666	6.666	0.000	98	246174	125.0	117.4	
63 Methylcyclohexane	83	6.903	6.903	0.000	94	552406	125.0	122.9	
64 1,2-Dichloropropane	63	6.958	6.958	0.000	99	296852	125.0	122.7	
65 Dibromomethane	93	7.043	7.043	0.000	97	98410	125.0	124.7	
67 1,4-Dioxane	88	7.055	7.067	-0.012	96	27143	2500.0	2468.7	
68 Dichlorobromomethane	83	7.262	7.262	0.000	97	220935	125.0	117.6	
70 2-Chloroethyl vinyl ether	63	7.597	7.596	0.001	91	177306	250.0	232.1	
74 trans-1,3-Dichloropropene	75	7.724	7.724	0.000	95	309476	125.0	124.6	
72 4-Methyl-2-pentanone (MIBK	43	7.901	7.901	0.000	97	151766	125.0	130.4	
73 Toluene	91	8.047	8.047	0.000	99	1131387	125.0	129.2	
71 cis-1,3-Dichloropropene	75	8.327	8.327	0.001	94	210351	125.0	117.1	
75 Ethyl methacrylate	69	8.412	8.412	0.000	93	216833	125.0	129.4	
76 1,1,2-Trichloroethane	97	8.521	8.521	0.000	89	162661	125.0	131.3	
77 Tetrachloroethene	164	8.564	8.564	0.000	96	209493	125.0	125.5	
78 1,3-Dichloropropane	76	8.673	8.673	0.000	94	287607	125.0	131.2	
79 2-Hexanone	43	8.752	8.752	0.000	97	97701	125.0	130.6	
81 Chlorodibromomethane	129	8.886	8.880	0.006	91	121676	125.0	123.6	
82 Ethylene Dibromide	107	8.984	8.984	0.000	96	139182	125.0	127.7	
84 Chlorobenzene	112	9.482	9.482	0.000	93	659208	125.0	136.5	
85 1,1,1,2-Tetrachloroethane	131	9.586	9.586	0.000	96	200974	125.0	129.8	
86 Ethylbenzene	106	9.592	9.592	0.000	98	426297	125.0	129.1	
87 m-Xylene & p-Xylene	106	9.732	9.732	0.000	98	527675	125.0	131.2	
88 o-Xylene	106	10.103	10.109	-0.006	97	506325	125.0	132.6	
89 Styrene	104	10.133	10.133	0.000	96	755106	125.0	121.9	
90 Bromoform	173	10.304	10.304	0.000	97	55692	125.0	118.1	
91 Isopropylbenzene	105	10.480	10.480	0.000	96	1282942	125.0	131.4	
94 Bromobenzene	156	10.772	10.772	0.000	94	239705	125.0	124.5	
93 1,1,2,2-Tetrachloroethane	83	10.803	10.809	-0.006	93	172095	125.0	132.7	
96 trans-1,4-Dichloro-2-buten	53	10.845	10.845	0.000	68	31104	125.0	116.4	
95 1,2,3-Trichloropropane	110	10.851	10.851	0.000	88	46369	125.0	130.6	
97 N-Propylbenzene	120	10.900	10.900	0.000	98	380320	125.0	134.9	
98 2-Chlorotoluene	126	10.973	10.973	0.000	97	290688	125.0	123.0	
99 1,3,5-Trimethylbenzene	105	11.089	11.088	0.001	96	1009118	125.0	132.1	
100 4-Chlorotoluene	126	11.101	11.101	0.000	98	269426	125.0	128.1	
101 tert-Butylbenzene	119	11.393	11.393	0.000	94	915451	125.0	131.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 1,2,4-Trimethylbenzene	105	11.454	11.459	-0.005	97	985498	125.0	132.3	
104 sec-Butylbenzene	105	11.618	11.618	0.000	94	1390567	125.0	136.3	
105 1,3-Dichlorobenzene	146	11.721	11.721	0.000	98	482823	125.0	131.1	
106 4-Isopropyltoluene	119	11.782	11.782	0.000	96	1081239	125.0	132.7	
107 1,4-Dichlorobenzene	146	11.825	11.831	-0.006	96	459873	125.0	136.9	
111 1,2-Dichlorobenzene	146	12.171	12.171	0.000	98	416666	125.0	129.3	
110 n-Butylbenzene	91	12.184	12.190	-0.006	97	1016771	125.0	132.4	
112 1,2-Dibromo-3-Chloropropan	75	12.968	12.968	0.000	79	13583	125.0	134.1	
113 1,2,4-Trichlorobenzene	180	13.777	13.777	0.000	94	169713	125.0	126.4	
115 Hexachlorobutadiene	225	13.936	13.929	0.007	96	189406	125.0	133.7	
116 Naphthalene	128	14.033	14.033	0.000	97	259950	125.0	129.6	
117 1,2,3-Trichlorobenzene	180	14.252	14.252	0.000	95	127175	125.0	128.0	
S 129 1,2-Dichloroethene, Total	96				0		250.0	239.9	
S 130 Xylenes, Total	106				0		250.0	263.8	
S 131 1,3-Dichloropropene, Total	1				0		250.0	241.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00022	Amount Added:	10.00	Units: uL
VOA8260SURR_00017	Amount Added:	5.00	Units: uL
voaWVOA Pri R_00001	Amount Added:	5.00	Units: uL
VOAACROPRI_00002	Amount Added:	30.00	Units: uL
voaWVA pri Re_00004	Amount Added:	5.00	Units: uL
voaW2-cle PRi_00002	Amount Added:	5.00	Units: uL

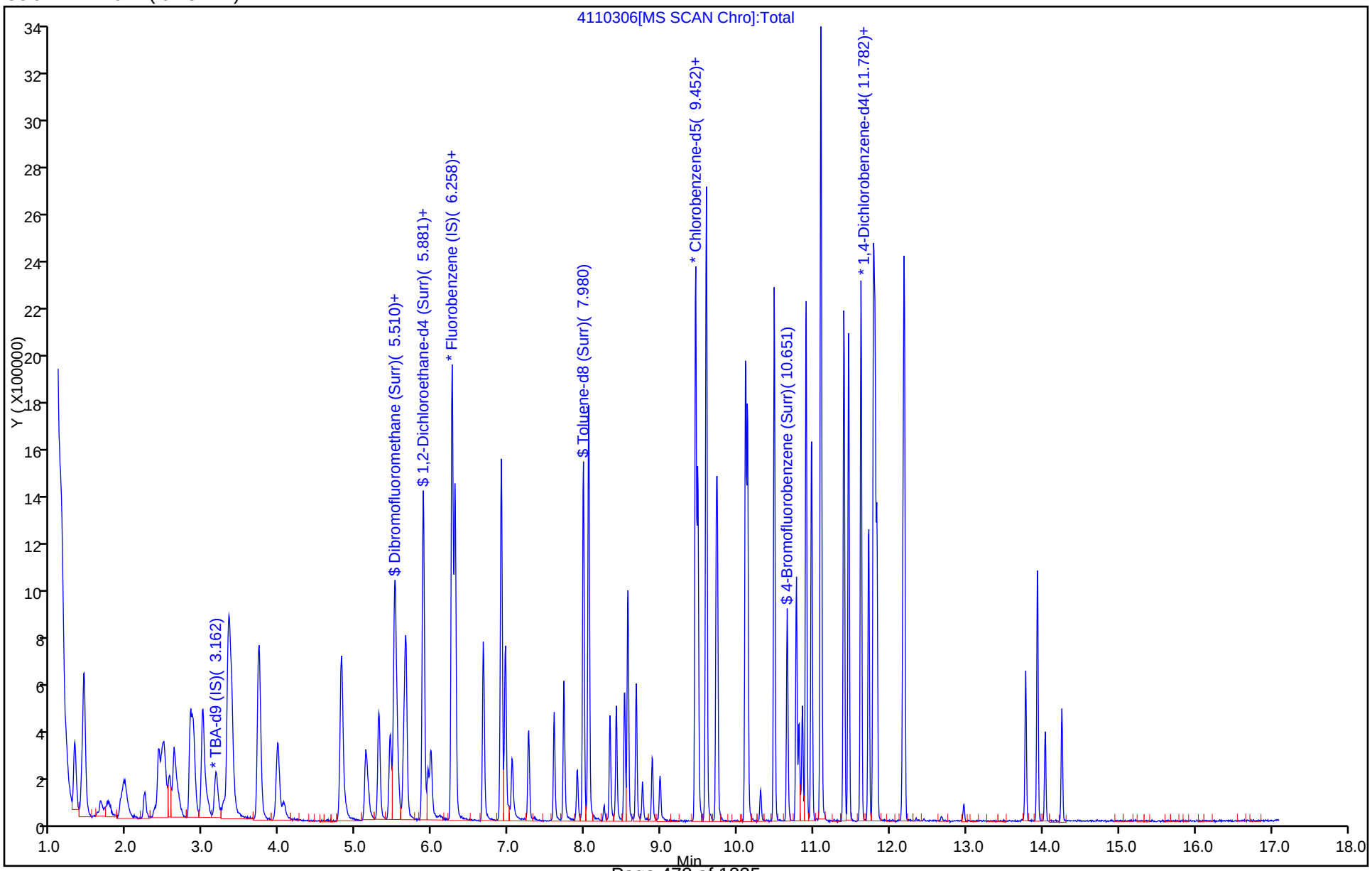
Report Date: 03-Nov-2014 16:25:16 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110306.D

Injection Date:	03-Nov-2014 13:15:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

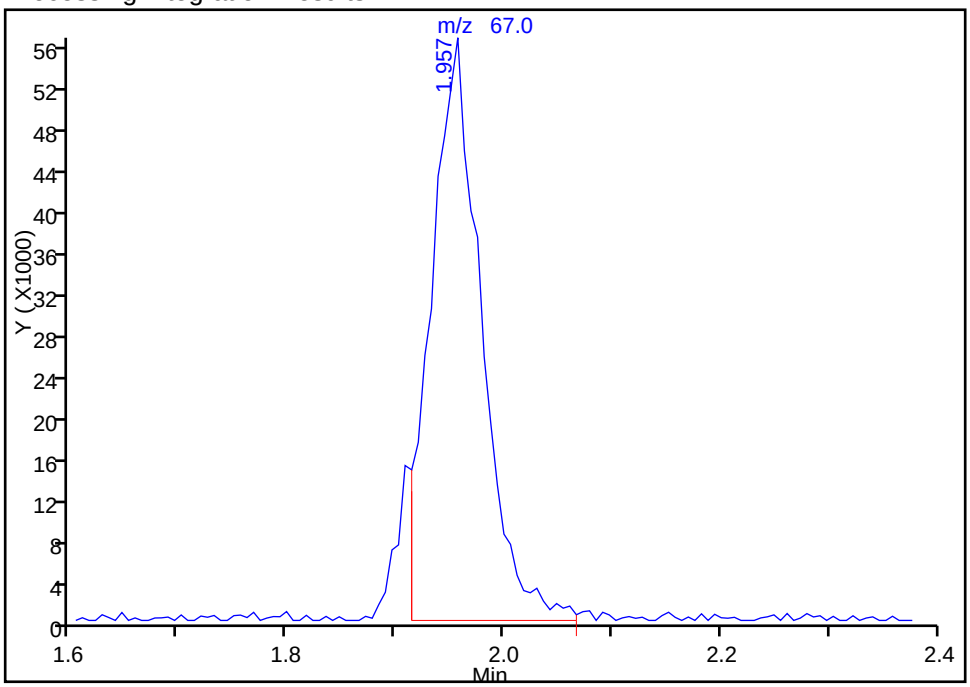
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110306.D				
Injection Date:	03-Nov-2014 13:15:30	Instrument ID:	CHHP4		
Lims ID:	ic				
Client ID:					
Operator ID:	034635	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

16 Dichlorofluoromethane, CAS: 75-43-4

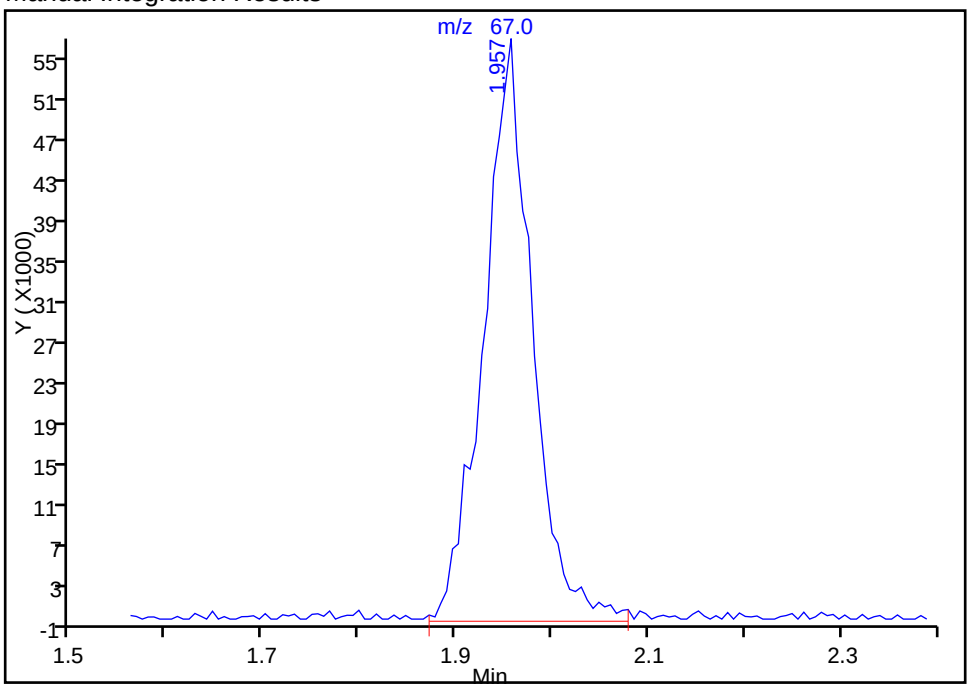
Processing Integration Results

RT: 1.96
Response: 185206
Amount: 116.9280



Manual Integration Results

RT: 1.96
Response: 201068
Amount: 123.9577



Reviewer: journetp, 03-Nov-2014 14:13:30
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110307.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 03-Nov-2014 13:42:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 180-0004149-007
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub33

Method: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Nov-2014 16:25:17 Calib Date: 03-Nov-2014 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: journetp Date: 03-Nov-2014 14:12:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.168	3.168	0.000	96	335088	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	6.258	6.258	0.000	98	1650203	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.452	9.452	0.000	86	388399	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.806	11.806	0.000	95	462021	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.492	5.492	0.000	94	300577	200.0	219.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.887	5.887	0.000	96	266578	200.0	211.8	
$ 7 Toluene-d8 (Surr)	98	7.980	7.980	0.000	93	1339596	200.0	215.1	
$ 8 4-Bromofluorobenzene (Surr	95	10.650	10.650	0.000	89	445255	200.0	205.1	
10 Dichlorodifluoromethane	85	1.209	1.209	0.000	99	544615	200.0	219.2	
11 Chloromethane	50	1.318	1.318	0.000	99	797392	200.0	219.9	
12 Vinyl chloride	62	1.416	1.416	0.000	98	563241	200.0	218.8	
13 Butadiene	54	1.440	1.434	0.006	98	569038	200.0	219.8	
14 Bromomethane	94	1.659	1.659	0.000	93	71494	200.0	195.7	
15 Chloroethane	64	1.744	1.744	0.000	97	87111	200.0	210.5	
17 Trichlorofluoromethane	101	1.921	1.921	0.000	98	282519	200.0	219.2	
16 Dichlorofluoromethane	67	1.957	1.957	0.000	98	314349	200.0	206.7	
19 Ethyl ether	59	2.225	2.225	0.000	96	139022	200.0	209.1	
20 Acrolein	56	2.365	2.365	0.000	99	83233	875.0	995.4	
21 1,1-Dichloroethene	96	2.419	2.419	0.000	96	345488	200.0	201.1	
22 1,1,2-Trichloro-1,2,2-trif	101	2.486	2.486	0.000	95	432989	200.0	227.7	
23 Acetone	43	2.529	2.529	0.000	98	88962	200.0	197.8	
24 Iodomethane	142	2.559	2.559	0.000	96	661539	200.0	219.9	
25 Carbon disulfide	76	2.620	2.620	0.000	99	1364034	200.0	225.0	
28 3-Chloro-1-propene	76	2.833	2.833	0.000	94	299800	200.0	217.8	
29 Methyl acetate	43	2.870	2.870	0.000	98	1090047	1000.0	1068.5	
30 Methylene Chloride	84	2.991	2.991	0.000	99	525297	200.0	218.4	
31 2-Methyl-2-propanol	59	3.265	3.265	0.000	94	199618	2000.0	1937.0	
32 Acrylonitrile	53	3.326	3.326	0.000	100	970140	2000.0	2248.2	
33 trans-1,2-Dichloroethene	96	3.332	3.332	0.000	97	496423	200.0	219.7	
34 Methyl tert-butyl ether	73	3.368	3.368	0.000	97	770319	200.0	214.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
38 Vinyl acetate	43	3.727	3.727	0.000	69	705725	200.0	223.1	
35 Hexane	57	3.727	3.727	0.000	93	1048917	200.0	219.0	
36 1,1-Dichloroethane	63	3.971	3.971	0.000	96	900495	200.0	217.5	
41 2,2-Dichloropropane	77	4.804	4.804	0.000	89	336789	200.0	214.5	
42 cis-1,2-Dichloroethene	96	4.816	4.816	0.000	82	480617	200.0	212.1	
43 2-Butanone (MEK)	43	4.859	4.859	0.000	100	109787	200.0	189.6	
46 Chlorobromomethane	128	5.127	5.127	0.000	91	164896	200.0	211.2	
48 Tetrahydrofuran	42	5.157	5.157	0.000	97	155132	400.0	427.0	
49 Chloroform	83	5.303	5.303	0.000	93	653358	200.0	207.4	
50 1,1,1-Trichloroethane	97	5.449	5.449	0.000	99	517077	200.0	218.3	
51 Cyclohexane	56	5.516	5.516	0.000	92	1183341	200.0	223.7	
53 Carbon tetrachloride	117	5.625	5.625	0.000	99	460908	200.0	217.7	
52 1,1-Dichloropropene	75	5.650	5.650	0.000	94	639484	200.0	222.3	
54 Benzene	78	5.881	5.881	0.000	98	1847904	200.0	221.3	
59 Isobutyl alcohol	41	5.942	5.942	0.000	93	158464	5000.0	4879.6	
55 1,2-Dichloroethane	62	5.984	5.984	0.000	94	337212	200.0	203.2	
58 n-Heptane	43	6.295	6.295	0.000	95	1060664	200.0	221.2	
61 Trichloroethene	130	6.666	6.666	0.000	98	421095	200.0	214.1	
63 Methylcyclohexane	83	6.903	6.903	0.000	94	935722	200.0	222.1	
64 1,2-Dichloropropane	63	6.958	6.958	0.000	98	470284	200.0	207.4	
65 Dibromomethane	93	7.043	7.043	0.000	94	150562	200.0	203.5	
67 1,4-Dioxane	88	7.067	7.067	0.000	95	45936	4000.0	4635.6	
68 Dichlorobromomethane	83	7.262	7.262	0.000	97	365633	200.0	207.7	
70 2-Chloroethyl vinyl ether	63	7.596	7.596	0.000	91	310229	400.0	433.1	
74 trans-1,3-Dichloropropene	75	7.724	7.724	0.000	95	512949	200.0	200.8	
72 4-Methyl-2-pentanone (MIBK	43	7.901	7.901	0.000	97	229333	200.0	191.2	
73 Toluene	91	8.047	8.047	0.000	98	1784371	200.0	217.0	
71 cis-1,3-Dichloropropene	75	8.327	8.327	0.000	93	349002	200.0	207.3	
75 Ethyl methacrylate	69	8.412	8.412	0.000	94	336808	200.0	202.0	
76 1,1,2-Trichloroethane	97	8.521	8.521	0.000	89	249383	200.0	195.4	
77 Tetrachloroethene	164	8.564	8.564	0.000	97	350679	200.0	203.9	
78 1,3-Dichloropropane	76	8.673	8.673	0.000	95	437206	200.0	193.6	
79 2-Hexanone	43	8.752	8.752	0.000	96	143692	200.0	194.5	
81 Chlorodibromomethane	129	8.880	8.880	0.000	92	201910	200.0	199.0	
82 Ethylene Dibromide	107	8.984	8.984	0.000	93	207407	200.0	184.7	
84 Chlorobenzene	112	9.482	9.482	0.000	92	1009382	200.0	210.3	
85 1,1,1,2-Tetrachloroethane	131	9.586	9.586	0.000	97	316138	200.0	198.2	
86 Ethylbenzene	106	9.592	9.592	0.000	98	678539	200.0	214.2	
87 m-Xylene & p-Xylene	106	9.732	9.732	0.000	99	834919	200.0	201.4	
88 o-Xylene	106	10.109	10.109	0.000	96	770324	200.0	209.3	
89 Styrene	104	10.133	10.133	0.000	95	1132409	200.0	177.3	
90 Bromoform	173	10.304	10.304	0.000	96	92297	200.0	189.9	
91 Isopropylbenzene	105	10.480	10.480	0.000	96	1911788	200.0	204.5	
94 Bromobenzene	156	10.772	10.772	0.000	95	378393	200.0	194.0	
93 1,1,2,2-Tetrachloroethane	83	10.809	10.809	0.000	93	251065	200.0	187.8	
96 trans-1,4-Dichloro-2-buten	53	10.845	10.845	0.000	71	49372	200.0	182.5	
95 1,2,3-Trichloropropane	110	10.851	10.851	0.000	89	72436	200.0	212.0	
97 N-Propylbenzene	120	10.900	10.900	0.000	98	579997	200.0	211.6	
98 2-Chlorotoluene	126	10.973	10.973	0.000	96	444370	200.0	185.6	
99 1,3,5-Trimethylbenzene	105	11.088	11.088	0.000	96	1525320	200.0	218.8	
100 4-Chlorotoluene	126	11.101	11.101	0.000	98	424064	200.0	213.8	
101 tert-Butylbenzene	119	11.393	11.393	0.000	94	1384037	200.0	214.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 1,2,4-Trimethylbenzene	105	11.459	11.459	0.000	97	1482846	200.0	215.4	
104 sec-Butylbenzene	105	11.618	11.618	0.000	95	2051735	200.0	222.7	
105 1,3-Dichlorobenzene	146	11.721	11.721	0.000	98	718776	200.0	202.7	
106 4-Isopropyltoluene	119	11.782	11.782	0.000	96	1629566	200.0	219.0	
107 1,4-Dichlorobenzene	146	11.831	11.831	0.000	95	683824	200.0	209.6	
111 1,2-Dichlorobenzene	146	12.171	12.171	0.000	98	634776	200.0	207.4	
110 n-Butylbenzene	91	12.190	12.190	0.000	97	1527628	200.0	215.3	
112 1,2-Dibromo-3-Chloropropan	75	12.968	12.968	0.000	80	19434	200.0	189.5	
113 1,2,4-Trichlorobenzene	180	13.777	13.777	0.000	94	258363	200.0	190.0	
115 Hexachlorobutadiene	225	13.929	13.929	0.000	96	292767	200.0	213.3	
116 Naphthalene	128	14.033	14.033	0.000	98	400841	200.0	200.5	
117 1,2,3-Trichlorobenzene	180	14.252	14.252	0.000	95	200974	200.0	202.6	
S 129 1,2-Dichloroethene, Total	96				0		400.0	431.8	
S 130 Xylenes, Total	106				0		400.0	410.7	
S 131 1,3-Dichloropropene, Total	1				0		400.0	408.1	

Reagents:

VOA8260INT_00022	Amount Added:	10.00	Units: uL
VOA8260SURR_00017	Amount Added:	8.00	Units: uL
voaWVOA Pri R_00001	Amount Added:	8.00	Units: uL
VOAACROPRI_00002	Amount Added:	35.00	Units: uL
voaWVA pri Re_00004	Amount Added:	8.00	Units: uL
voaW2-cle PRi_00002	Amount Added:	8.00	Units: uL

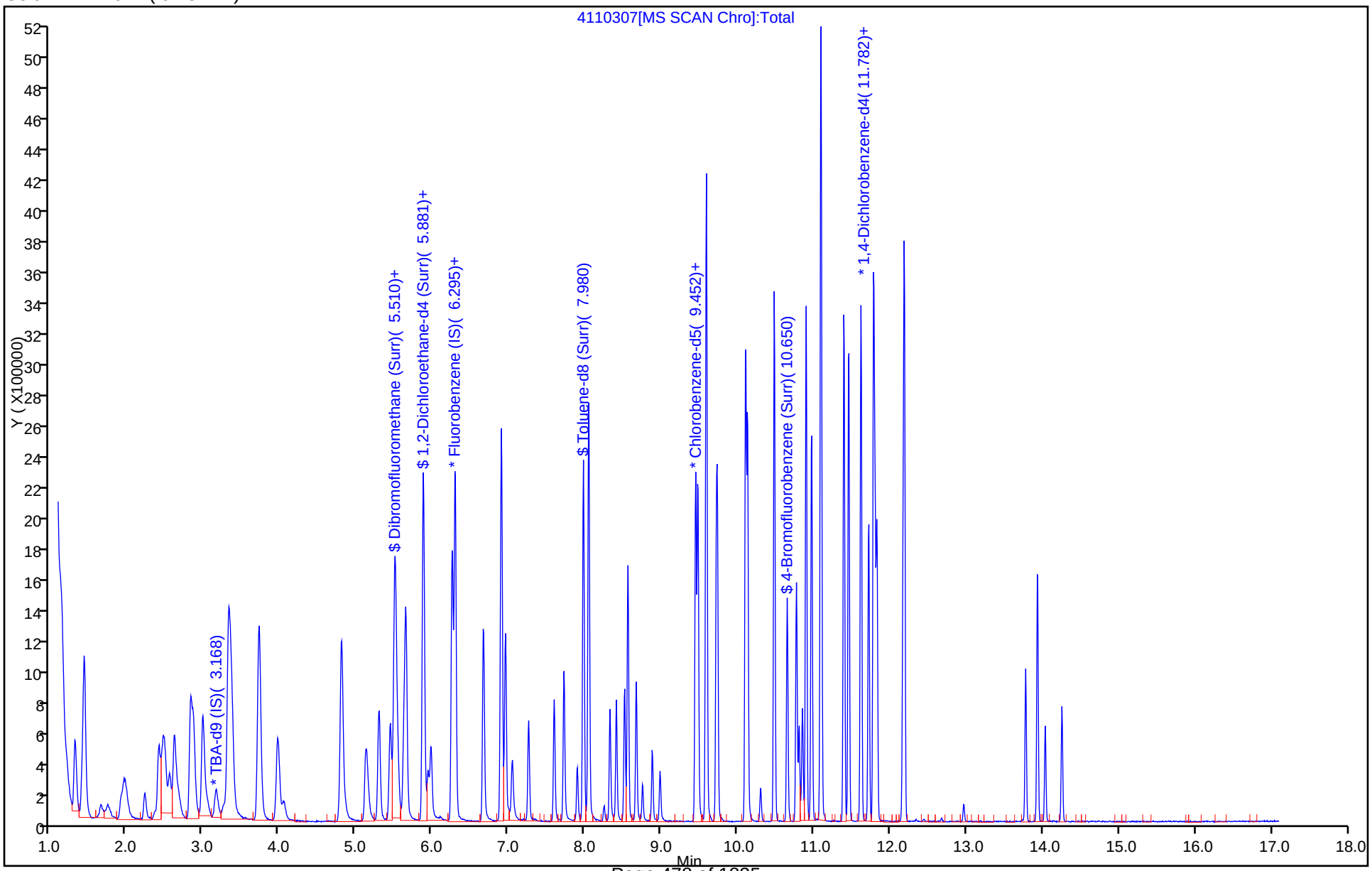
Report Date: 03-Nov-2014 16:25:18 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110307.D

Injection Date:	03-Nov-2014 13:42:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	icis			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110309.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 03-Nov-2014 14:35:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0004149-009
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub33

Method: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Nov-2014 16:25:22 Calib Date: 03-Nov-2014 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: journetp Date: 03-Nov-2014 14:11:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.168	3.168	0.000	99	347497	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	6.258	6.258	0.000	98	1858435	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.452	9.452	0.000	87	427541	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.806	11.806	0.000	95	505583	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.498	5.492	0.006	94	951487	625.0	615.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.887	5.887	0.000	96	868109	625.0	612.4	
$ 7 Toluene-d8 (Surr)	98	7.980	7.980	0.000	93	3533198	625.0	515.3	
$ 8 4-Bromofluorobenzene (Surr	95	10.650	10.650	0.000	88	1368902	625.0	572.7	
10 Dichlorodifluoromethane	85	1.209	1.209	0.000	99	1733176	625.0	619.3	
11 Chloromethane	50	1.318	1.318	0.000	98	2330249	625.0	570.6	
12 Vinyl chloride	62	1.422	1.416	0.006	98	1586609	625.0	547.3	
13 Butadiene	54	1.434	1.434	0.000	96	1656316	625.0	568.1	
14 Bromomethane	94	1.653	1.659	-0.006	92	233482	625.0	567.5	
15 Chloroethane	64	1.738	1.744	-0.006	97	255990	625.0	588.9	
17 Trichlorofluoromethane	101	1.927	1.921	0.006	95	1035575	625.0	713.6	
16 Dichlorofluoromethane	67	1.957	1.957	0.000	97	1057158	625.0	617.3	
19 Ethyl ether	59	2.231	2.225	0.006	98	448564	625.0	599.0	
20 Acrolein	56	2.365	2.365	0.000	98	110388	1125.0	1172.3	
21 1,1-Dichloroethene	96	2.419	2.419	0.000	97	1135190	625.0	613.5	
22 1,1,2-Trichloro-1,2,2-trif	101	2.474	2.486	-0.012	94	1279042	625.0	597.2	
23 Acetone	43	2.523	2.529	-0.006	99	240731	625.0	581.4	
24 Iodomethane	142	2.559	2.559	0.000	96	2102863	625.0	620.7	
25 Carbon disulfide	76	2.620	2.620	0.000	99	4703940	625.0	689.1	
28 3-Chloro-1-propene	76	2.833	2.833	0.000	94	1027463	625.0	617.2	
29 Methyl acetate	43	2.870	2.870	0.000	98	3212406	3125.0	2796.0	
30 Methylene Chloride	84	2.991	2.991	0.000	99	1505632	625.0	621.8	
31 2-Methyl-2-propanol	59	3.265	3.265	0.000	95	603688	6250.0	5648.6	
32 Acrylonitrile	53	3.326	3.326	0.000	100	2847212	6250.0	6201.9	
33 trans-1,2-Dichloroethene	96	3.332	3.332	0.000	98	1587582	625.0	623.9	
34 Methyl tert-butyl ether	73	3.374	3.368	0.006	97	2351395	625.0	582.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
38 Vinyl acetate	43	3.727	3.727	0.000	67	2166786	625.0	620.4	
35 Hexane	57	3.727	3.727	0.000	94	3170746	625.0	617.3	
36 1,1-Dichloroethane	63	3.977	3.971	0.006	96	2832176	625.0	607.4	
41 2,2-Dichloropropane	77	4.804	4.804	0.000	90	1184024	625.0	669.7	
42 cis-1,2-Dichloroethene	96	4.816	4.816	0.000	83	1513530	625.0	593.2	
43 2-Butanone (MEK)	43	4.859	4.859	0.000	99	355386	625.0	608.5	
46 Chlorobromomethane	128	5.126	5.127	-0.001	91	540361	625.0	614.7	
48 Tetrahydrofuran	42	5.157	5.157	0.000	95	457987	1250.0	1119.2	
49 Chloroform	83	5.297	5.303	-0.006	93	2050276	625.0	577.8	
50 1,1,1-Trichloroethane	97	5.449	5.449	0.000	98	1724054	625.0	646.3	
51 Cyclohexane	56	5.516	5.516	0.000	94	3490471	625.0	585.9	
53 Carbon tetrachloride	117	5.631	5.625	0.006	98	1591703	625.0	667.4	
52 1,1-Dichloropropene	75	5.656	5.650	0.006	93	2003880	625.0	618.4	
54 Benzene	78	5.881	5.881	0.000	98	5039564	625.0	536.0	
59 Isobutyl alcohol	41	5.942	5.942	0.000	96	519324	15625	14200	
55 1,2-Dichloroethane	62	5.984	5.984	0.000	93	1085070	625.0	580.5	
58 n-Heptane	43	6.301	6.295	0.006	94	3050882	625.0	565.1	
61 Trichloroethene	130	6.672	6.666	0.006	97	1332487	625.0	601.6	
63 Methylcyclohexane	83	6.903	6.903	0.000	94	2704544	625.0	570.0	
64 1,2-Dichloropropane	63	6.958	6.958	0.000	98	1443702	625.0	565.4	
65 Dibromomethane	93	7.043	7.043	0.000	97	505201	625.0	606.3	
67 1,4-Dioxane	88	7.061	7.067	-0.006	98	141379	12500	12485	
68 Dichlorobromomethane	83	7.262	7.262	0.000	96	1265293	625.0	638.1	
70 2-Chloroethyl vinyl ether	63	7.596	7.596	0.000	92	999550	1250.0	1239.2	
74 trans-1,3-Dichloropropene	75	7.724	7.724	0.000	95	1715895	625.0	628.4	
72 4-Methyl-2-pentanone (MIBK	43	7.901	7.901	0.000	96	721478	625.0	546.4	
73 Toluene	91	8.053	8.047	0.006	94	4478637	625.0	602.4	
71 cis-1,3-Dichloropropene	75	8.326	8.327	0.000	93	1244582	625.0	656.4	
75 Ethyl methacrylate	69	8.412	8.412	0.000	93	1066379	625.0	621.9	
76 1,1,2-Trichloroethane	97	8.521	8.521	0.000	90	769743	625.0	547.9	
77 Tetrachloroethene	164	8.564	8.564	0.000	97	1062778	625.0	561.5	
78 1,3-Dichloropropane	76	8.673	8.673	0.000	96	1354026	625.0	544.7	
79 2-Hexanone	43	8.752	8.752	0.000	96	464430	625.0	608.0	
81 Chlorodibromomethane	129	8.880	8.880	0.000	91	731242	625.0	654.6	
82 Ethylene Dibromide	107	8.983	8.984	-0.001	99	692151	625.0	560.0	
84 Chlorobenzene	112	9.482	9.482	0.000	87	2779120	625.0	549.3	
85 1,1,1,2-Tetrachloroethane	131	9.586	9.586	0.000	96	963508	625.0	548.8	
86 Ethylbenzene	106	9.598	9.592	0.006	94	1820775	625.0	611.6	
87 m-Xylene & p-Xylene	106	9.732	9.732	0.000	95	2383414	625.0	522.2	
88 o-Xylene	106	10.109	10.109	0.000	93	2132292	625.0	612.5	
89 Styrene	104	10.133	10.133	0.000	92	3109520	625.0	442.4	
90 Bromoform	173	10.304	10.304	0.000	98	382388	625.0	714.7	
91 Isopropylbenzene	105	10.480	10.480	0.000	96	4505204	625.0	626.3	
94 Bromobenzene	156	10.772	10.772	0.000	95	1127170	625.0	528.1	
93 1,1,2,2-Tetrachloroethane	83	10.808	10.809	-0.001	93	767713	625.0	521.7	
96 trans-1,4-Dichloro-2-buten	53	10.845	10.845	0.000	78	188479	625.0	636.6	
95 1,2,3-Trichloropropane	110	10.857	10.851	0.006	86	224027	625.0	621.6	
97 N-Propylbenzene	120	10.900	10.900	0.000	93	1644536	625.0	575.0	
98 2-Chlorotoluene	126	10.973	10.973	0.000	96	1293841	625.0	493.9	
99 1,3,5-Trimethylbenzene	105	11.088	11.088	0.000	97	3663629	625.0	602.6	
100 4-Chlorotoluene	126	11.100	11.101	-0.001	97	1172679	625.0	618.9	
101 tert-Butylbenzene	119	11.399	11.393	0.006	93	3521083	625.0	609.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 1,2,4-Trimethylbenzene	105	11.459	11.459	0.000	96	3740947	625.0	608.4	
104 sec-Butylbenzene	105	11.618	11.618	0.000	95	4721692	625.0	594.6	
105 1,3-Dichlorobenzene	146	11.721	11.721	0.000	96	2143238	625.0	621.0	
106 4-Isopropyltoluene	119	11.782	11.782	0.000	91	3937573	625.0	602.0	
107 1,4-Dichlorobenzene	146	11.830	11.831	-0.001	90	2064671	625.0	611.0	
111 1,2-Dichlorobenzene	146	12.171	12.171	0.000	95	1808226	625.0	618.9	
110 n-Butylbenzene	91	12.189	12.190	-0.001	93	3784161	625.0	604.8	
112 1,2-Dibromo-3-Chloropropan	75	12.962	12.968	-0.006	86	75884	625.0	629.4	
113 1,2,4-Trichlorobenzene	180	13.777	13.777	0.000	95	874689	625.0	587.7	
115 Hexachlorobutadiene	225	13.935	13.929	0.006	97	859016	625.0	601.2	
116 Naphthalene	128	14.033	14.033	0.000	97	1336874	625.0	631.7	
117 1,2,3-Trichlorobenzene	180	14.252	14.252	0.000	94	667810	625.0	628.3	
S 129 1,2-Dichloroethene, Total	96				0		1250.0	1217.1	
S 130 Xylenes, Total	106				0		1250.0	1134.8	
S 131 1,3-Dichloropropene, Total	1				0		1250.0	1284.8	

Reagents:

VOA8260INT_00022	Amount Added:	10.00	Units: uL
VOA8260SURR_00017	Amount Added:	25.00	Units: uL
voaWVOA Pri R_00001	Amount Added:	25.00	Units: uL
VOAACROPRI_00002	Amount Added:	45.00	Units: uL
voaWVA pri Re_00004	Amount Added:	25.00	Units: uL
voaW2-cle PRi_00002	Amount Added:	25.00	Units: uL

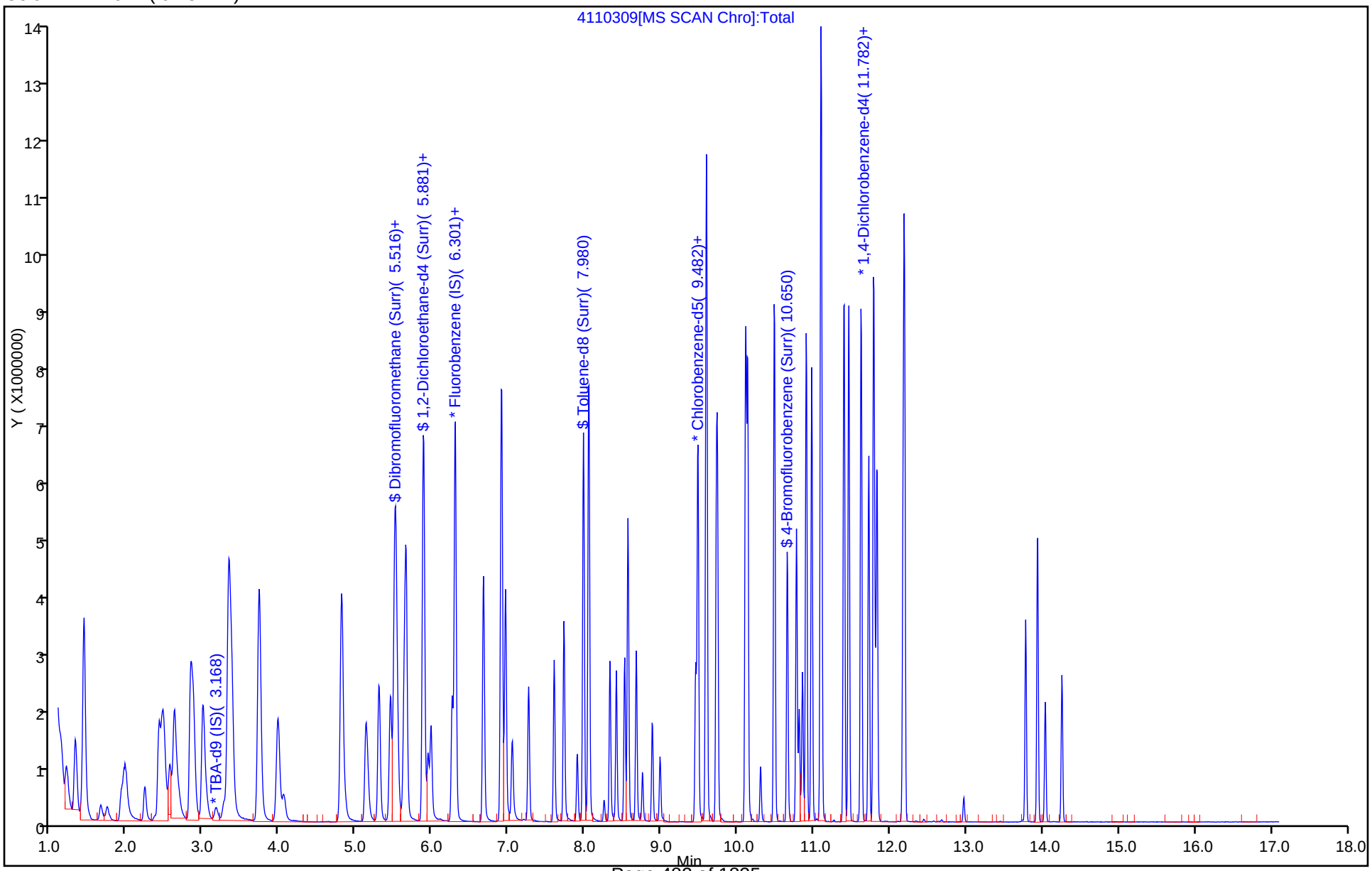
Report Date: 03-Nov-2014 16:25:22 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110309.D

Injection Date:	03-Nov-2014 14:35:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	ic			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110310.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 03-Nov-2014 15:02:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0004149-0110
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub33

Method: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Nov-2014 16:25:24 Calib Date: 03-Nov-2014 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: journetp Date: 03-Nov-2014 14:24:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.192	3.168	0.024	100	341079	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	6.258	6.258	0.000	97	1738826	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.452	9.452	0.000	87	404119	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.807	11.806	0.001	92	482582	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.498	5.492	0.006	94	1762628	1250.0	1219.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.893	5.887	0.006	95	1584927	1250.0	1195.1	
$ 7 Toluene-d8 (Surr)	98	7.980	7.980	0.000	92	5424801	1250.0	837.1	
$ 8 4-Bromofluorobenzene (Surr	95	10.651	10.650	0.001	90	2533468	1250.0	1121.4	
10 Dichlorodifluoromethane	85	1.209	1.209	0.000	99	3392540	1250.0	1295.6	
11 Chloromethane	50	1.325	1.318	0.007	98	4312184	1250.0	1128.6	
12 Vinyl chloride	62	1.428	1.416	0.012	97	3089600	1250.0	1139.1	
13 Butadiene	54	1.440	1.434	0.006	95	3136694	1250.0	1149.8	
14 Bromomethane	94	1.653	1.659	-0.006	93	464053	1250.0	1205.4	
15 Chloroethane	64	1.745	1.744	0.000	97	479613	1250.0	1257.2	
17 Trichlorofluoromethane	101	1.909	1.921	-0.012	86	1683014	1250.0	1239.5	
16 Dichlorofluoromethane	67	1.957	1.957	0.000	99	1667239	1250.0	1040.5	
19 Ethyl ether	59	2.231	2.225	0.006	97	804307	1250.0	1147.9	
20 Acrolein	56	2.365	2.365	0.000	99	98947	1250.0	1123.0	
21 1,1-Dichloroethene	96	2.408	2.419	-0.011	96	1941678	1250.0	1252.6	
22 1,1,2-Trichloro-1,2,2-trif	101	2.487	2.486	0.001	94	2487932	1250.0	1241.6	
23 Acetone	43	2.535	2.529	0.006	100	474414	1250.0	1257.2	
24 Iodomethane	142	2.554	2.559	-0.005	98	4109897	1250.0	1296.6	
25 Carbon disulfide	76	2.608	2.620	-0.012	100	8821688	1250.0	1381.2	
28 3-Chloro-1-propene	76	2.827	2.833	-0.006	95	2167520	1250.0	1251.2	
29 Methyl acetate	43	2.876	2.870	0.006	97	5685537	6250.0	5288.9	
30 Methylene Chloride	84	2.992	2.991	0.001	97	2838966	1250.0	1250.6	
31 2-Methyl-2-propanol	59	3.296	3.265	0.031	97	1169407	12500	11148	
32 Acrylonitrile	53	3.332	3.326	0.006	97	5156002	12500	12511	
33 trans-1,2-Dichloroethene	96	3.326	3.332	-0.006	97	2925765	1250.0	1228.9	
34 Methyl tert-butyl ether	73	3.375	3.368	0.007	97	4359497	1250.0	1154.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
38 Vinyl acetate	43	3.722	3.727	-0.005	68	3966624	1250.0	1220.7	
35 Hexane	57	3.722	3.727	-0.005	94	5687369	1250.0	1251.6	
36 1,1-Dichloroethane	63	3.971	3.971	0.000	95	5229058	1250.0	1198.6	
41 2,2-Dichloropropane	77	4.798	4.804	-0.006	93	2127222	1250.0	1285.9	
42 cis-1,2-Dichloroethene	96	4.817	4.816	0.001	81	2828423	1250.0	1184.8	
43 2-Butanone (MEK)	43	4.859	4.859	0.000	100	657940	1250.0	1253.0	
46 Chlorobromomethane	128	5.127	5.127	0.000	92	1011666	1250.0	1229.9	
48 Tetrahydrofuran	42	5.157	5.157	0.000	93	866670	2500.0	2263.7	
49 Chloroform	83	5.297	5.303	-0.006	94	3760354	1250.0	1132.7	
50 1,1,1-Trichloroethane	97	5.449	5.449	0.000	97	3307587	1250.0	1325.3	
51 Cyclohexane	56	5.516	5.516	0.000	95	6379678	1250.0	1144.6	
53 Carbon tetrachloride	117	5.632	5.625	0.007	97	3099947	1250.0	1389.3	
52 1,1-Dichloropropene	75	5.656	5.650	0.006	91	3582918	1250.0	1181.8	
54 Benzene	78	5.881	5.881	0.000	92	7840886	1250.0	891.2	
59 Isobutyl alcohol	41	5.954	5.942	0.012	95	1006186	31250	29404	
55 1,2-Dichloroethane	62	5.985	5.984	0.001	92	2057245	1250.0	1176.4	
58 n-Heptane	43	6.301	6.295	0.006	89	4995867	1250.0	989.0	
61 Trichloroethene	130	6.666	6.666	0.000	96	2366628	1250.0	1142.1	
63 Methylcyclohexane	83	6.909	6.903	0.006	93	4684311	1250.0	1055.2	
64 1,2-Dichloropropane	63	6.958	6.958	0.000	96	2608895	1250.0	1092.1	
65 Dibromomethane	93	7.043	7.043	0.000	98	957656	1250.0	1228.4	
67 1,4-Dioxane	88	7.061	7.067	-0.006	98	284445	25000	25005	
68 Dichlorobromomethane	83	7.262	7.262	0.000	94	2381841	1250.0	1283.8	
70 2-Chloroethyl vinyl ether	63	7.597	7.596	0.001	91	1814167	2500.0	2403.9	
74 trans-1,3-Dichloropropene	75	7.725	7.724	0.001	96	3066001	1250.0	1249.3	
72 4-Methyl-2-pentanone (MIBK	43	7.901	7.901	0.000	96	1304037	1250.0	1044.7	
73 Toluene	91	8.053	8.047	0.006	88	6606546	1250.0	1261.0	
71 cis-1,3-Dichloropropene	75	8.327	8.327	0.001	90	2332929	1250.0	1315.1	
75 Ethyl methacrylate	69	8.412	8.412	0.000	93	1915843	1250.0	1250.7	
76 1,1,2-Trichloroethane	97	8.521	8.521	0.000	91	1389170	1250.0	1046.0	
77 Tetrachloroethene	164	8.564	8.564	0.000	93	1877219	1250.0	1049.2	
78 1,3-Dichloropropane	76	8.674	8.673	0.001	96	2427460	1250.0	1033.1	
79 2-Hexanone	43	8.753	8.752	0.001	96	890566	1250.0	1253.1	
81 Chlorodibromomethane	129	8.887	8.880	0.006	91	1425951	1250.0	1350.4	
82 Ethylene Dibromide	107	8.984	8.984	0.000	98	1328246	1250.0	1137.0	
84 Chlorobenzene	112	9.483	9.482	0.001	81	4484487	1250.0	948.7	
85 1,1,1,2-Tetrachloroethane	131	9.586	9.586	0.000	94	1672023	1250.0	1007.5	
86 Ethylbenzene	106	9.598	9.592	0.006	89	2850802	1250.0	1254.6	
87 m-Xylene & p-Xylene	106	9.732	9.732	0.000	88	4040005	1250.0	936.5	
88 o-Xylene	106	10.109	10.109	0.000	89	3443753	1250.0	1253.7	
89 Styrene	104	10.134	10.133	0.001	84	4814865	1250.0	724.7	
90 Bromoform	173	10.304	10.304	0.000	98	806062	1250.0	1593.9	
91 Isopropylbenzene	105	10.486	10.480	0.006	90	6406312	1250.0	NQ	
94 Bromobenzene	156	10.772	10.772	0.000	95	2060126	1250.0	1011.2	
93 1,1,2,2-Tetrachloroethane	83	10.809	10.809	0.000	93	1453855	1250.0	1045.3	
96 trans-1,4-Dichloro-2-buten	53	10.845	10.845	0.000	81	402007	1250.0	1422.6	
95 1,2,3-Trichloropropane	110	10.858	10.851	0.007	87	439678	1250.0	1250.7	
97 N-Propylbenzene	120	10.906	10.900	0.006	86	2731707	1250.0	1013.1	
98 2-Chlorotoluene	126	10.973	10.973	0.000	91	2285124	1250.0	913.8	
99 1,3,5-Trimethylbenzene	105	11.095	11.088	0.007	93	5164561	1250.0	1267.6	
100 4-Chlorotoluene	126	11.107	11.101	0.006	93	1942800	1250.0	1251.8	
101 tert-Butylbenzene	119	11.399	11.393	0.006	90	5304007	1250.0	1256.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 1,2,4-Trimethylbenzene	105	11.460	11.459	0.001	90	5567438	1250.0	1257.8	
104 sec-Butylbenzene	105	11.624	11.618	0.006	93	6614693	1250.0	1278.8	
105 1,3-Dichlorobenzene	146	11.721	11.721	0.000	91	3657059	1250.0	1251.0	
106 4-Isopropyltoluene	119	11.788	11.782	0.006	87	5683062	1250.0	1264.3	
107 1,4-Dichlorobenzene	146	11.831	11.831	0.000	86	3582102	1250.0	1125.8	
111 1,2-Dichlorobenzene	146	12.172	12.171	0.001	91	3009861	1250.0	1251.7	
110 n-Butylbenzene	91	12.190	12.190	0.000	87	5418916	1250.0	1263.2	
112 1,2-Dibromo-3-Chloropropan	75	12.962	12.968	-0.006	86	161249	1250.0	1249.4	
113 1,2,4-Trichlorobenzene	180	13.778	13.777	0.001	95	1674198	1250.0	1178.6	
115 Hexachlorobutadiene	225	13.936	13.929	0.007	98	1561854	1250.0	1161.0	
116 Naphthalene	128	14.033	14.033	0.000	98	2451542	1250.0	1248.7	
117 1,2,3-Trichlorobenzene	180	14.252	14.252	0.000	94	1252459	1250.0	1249.4	
S 129 1,2-Dichloroethene, Total	96				0		2500.0	2413.7	
S 130 Xylenes, Total	106				0		2500.0	2190.2	
S 131 1,3-Dichloropropene, Total	1				0		2500.0	2564.4	

QC Flag Legend

Processing Flags

NQ - Not Quantifiable

Reagents:

VOA8260INT_00022	Amount Added:	10.00	Units: uL
VOA8260SURR_00017	Amount Added:	50.00	Units: uL
voaWVOA Pri R_00001	Amount Added:	50.00	Units: uL
VOAACROPRI_00002	Amount Added:	50.00	Units: uL
voaWVA pri Re_00004	Amount Added:	50.00	Units: uL
voaW2-cle PRi_00002	Amount Added:	50.00	Units: uL

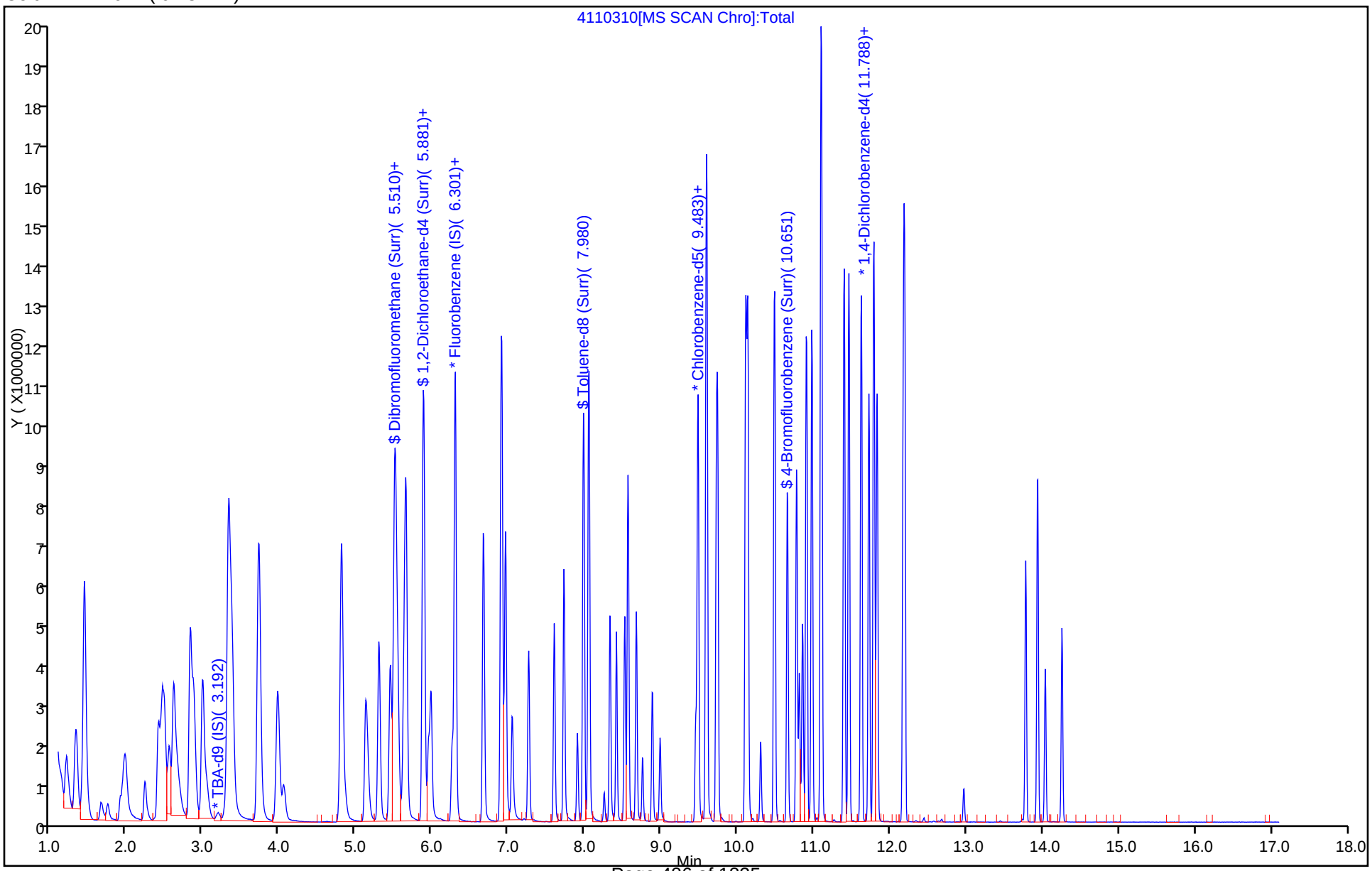
Report Date: 03-Nov-2014 16:25:24 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110310.D

Injection Date:	03-Nov-2014 15:02:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 03-Nov-2014 16:24:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0004149-012
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub33

Method: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Nov-2014 16:25:21 Calib Date: 03-Nov-2014 16:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: journetp Date: 03-Nov-2014 15:49:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.137	3.168	-0.031	97	356286	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	6.258	6.258	0.000	98	1842006	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.452	9.452	0.000	86	415751	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.806	11.806	0.000	95	498474	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.498	5.492	0.006	96	376917	250.0	246.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.887	5.887	0.000	96	331198	250.0	235.7	
$ 7 Toluene-d8 (Surr)	98	7.980	7.980	0.000	93	1598196	250.0	239.7	
$ 8 4-Bromofluorobenzene (Surr	95	10.651	10.650	0.001	88	558566	250.0	240.3	
10 Dichlorodifluoromethane	85	1.209	1.209	0.000	100	689688	250.0	248.6	
11 Chloromethane	50	1.312	1.318	-0.006	99	970825	250.0	239.8	
12 Vinyl chloride	62	1.422	1.416	0.006	98	632565	250.0	220.1	
13 Butadiene	54	1.434	1.434	0.000	97	648753	250.0	224.5	
14 Bromomethane	94	1.653	1.659	-0.006	92	97759	250.0	239.7	
15 Chloroethane	64	1.750	1.744	0.006	96	139075	250.0	309.6	
17 Trichlorofluoromethane	101	1.933	1.921	0.012	97	440612	250.0	306.3	
16 Dichlorofluoromethane	67	1.957	1.957	0.000	99	495933	250.0	292.2	
19 Ethyl ether	59	2.225	2.225	0.000	97	191154	250.0	257.5	
20 Acrolein	56	2.371	2.365	0.006	95	75280	1000.0	806.6	M
21 1,1-Dichloroethene	96	2.420	2.419	0.001	96	521168	250.0	272.3	
22 1,1,2-Trichloro-1,2,2-trif	101	2.480	2.486	-0.006	95	564911	250.0	266.1	
23 Acetone	43	2.523	2.529	-0.006	100	148344	250.0	335.2	
24 Iodomethane	142	2.566	2.559	0.007	96	826838	250.0	246.2	
25 Carbon disulfide	76	2.626	2.620	0.006	99	1843252	250.0	272.4	
28 3-Chloro-1-propene	76	2.833	2.833	0.000	95	390645	250.0	252.7	
29 Methyl acetate	43	2.864	2.870	-0.006	99	1320665	1250.0	1159.7	
30 Methylene Chloride	84	2.998	2.991	0.007	99	642165	250.0	243.9	
31 2-Methyl-2-propanol	59	3.253	3.265	-0.012	96	203750	2500.0	1859.4	
32 Acrylonitrile	53	3.320	3.326	-0.006	100	1141964	2500.0	2380.1	
33 trans-1,2-Dichloroethene	96	3.338	3.332	0.006	98	635834	250.0	252.1	
34 Methyl tert-butyl ether	73	3.363	3.368	-0.005	96	937481	250.0	234.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
38 Vinyl acetate	43	3.734	3.727	0.007	91	891442	250.0	253.4	
35 Hexane	57	3.734	3.727	0.007	93	1344500	250.0	253.1	
36 1,1-Dichloroethane	63	3.977	3.971	0.006	96	1151152	250.0	249.1	
41 2,2-Dichloropropane	77	4.804	4.804	0.000	86	451179	250.0	257.5	
42 cis-1,2-Dichloroethene	96	4.816	4.816	0.000	83	603817	250.0	238.8	
43 2-Butanone (MEK)	43	4.859	4.859	0.000	98	177619	250.0	289.3	
46 Chlorobromomethane	128	5.133	5.127	0.006	91	199944	250.0	229.5	
48 Tetrahydrofuran	42	5.151	5.157	-0.006	94	184331	500.0	454.5	
49 Chloroform	83	5.297	5.303	-0.006	94	818661	250.0	232.8	
50 1,1,1-Trichloroethane	97	5.449	5.449	0.000	99	665866	250.0	251.9	
51 Cyclohexane	56	5.516	5.516	0.000	93	1435801	250.0	243.2	
53 Carbon tetrachloride	117	5.632	5.625	0.007	96	614115	250.0	259.8	
52 1,1-Dichloropropene	75	5.656	5.650	0.006	94	805469	250.0	250.8	
54 Benzene	78	5.881	5.881	0.000	98	2317492	250.0	248.7	
59 Isobutyl alcohol	41	5.936	5.942	-0.006	96	199535	6250.0	5504.5	
55 1,2-Dichloroethane	62	5.985	5.984	0.000	94	428789	250.0	231.5	
58 n-Heptane	43	6.301	6.295	0.006	94	1336577	250.0	249.8	
61 Trichloroethene	130	6.666	6.666	0.000	98	551869	250.0	251.4	
63 Methylcyclohexane	83	6.903	6.903	0.000	94	1154026	250.0	245.4	
64 1,2-Dichloropropane	63	6.958	6.958	0.000	98	597118	250.0	236.0	
65 Dibromomethane	93	7.043	7.043	0.000	94	184345	250.0	223.2	
67 1,4-Dioxane	88	7.061	7.067	-0.006	96	50203	5000.0	4535.5	
68 Dichlorobromomethane	83	7.262	7.262	0.000	97	495371	250.0	252.1	
70 2-Chloroethyl vinyl ether	63	7.597	7.596	0.001	91	396960	500.0	496.5	
74 trans-1,3-Dichloropropene	75	7.724	7.724	0.000	96	667130	250.0	244.5	
72 4-Methyl-2-pentanone (MIBK	43	7.901	7.901	0.000	97	304640	250.0	237.2	
73 Toluene	91	8.053	8.047	0.006	98	2241088	250.0	263.0	
71 cis-1,3-Dichloropropene	75	8.327	8.327	0.001	94	466600	250.0	248.3	
75 Ethyl methacrylate	69	8.412	8.412	0.000	92	442080	250.0	251.3	
76 1,1,2-Trichloroethane	97	8.521	8.521	0.000	89	312197	250.0	228.5	
77 Tetrachloroethene	164	8.564	8.564	0.000	96	438023	250.0	238.0	
78 1,3-Dichloropropane	76	8.673	8.673	0.000	94	565116	250.0	233.8	
79 2-Hexanone	43	8.752	8.752	0.000	97	216393	250.0	281.4	
81 Chlorodibromomethane	129	8.886	8.880	0.006	91	273736	250.0	252.0	
82 Ethylene Dibromide	107	8.984	8.984	0.000	97	269950	250.0	224.6	
84 Chlorobenzene	112	9.483	9.482	0.000	92	1282060	250.0	252.4	
85 1,1,1,2-Tetrachloroethane	131	9.586	9.586	0.000	97	413573	250.0	242.2	
86 Ethylbenzene	106	9.592	9.592	0.000	98	845631	250.0	255.2	
87 m-Xylene & p-Xylene	106	9.732	9.732	0.000	98	1042884	250.0	235.0	
88 o-Xylene	106	10.109	10.109	0.000	96	984099	250.0	256.6	
89 Styrene	104	10.133	10.133	0.000	95	1442360	250.0	211.0	
90 Bromoform	173	10.304	10.304	0.000	98	127202	250.0	244.5	
91 Isopropylbenzene	105	10.480	10.480	0.000	96	2346017	250.0	242.2	
94 Bromobenzene	156	10.772	10.772	0.000	94	471458	250.0	224.0	
93 1,1,2,2-Tetrachloroethane	83	10.809	10.809	0.000	92	325964	250.0	227.8	
96 trans-1,4-Dichloro-2-buten	53	10.845	10.845	0.000	70	64248	250.0	220.1	
95 1,2,3-Trichloropropane	110	10.851	10.851	0.000	87	88980	250.0	243.8	
97 N-Propylbenzene	120	10.900	10.900	0.000	97	732865	250.0	250.7	
98 2-Chlorotoluene	126	10.973	10.973	0.000	96	556330	250.0	215.4	
99 1,3,5-Trimethylbenzene	105	11.089	11.088	0.001	97	1879886	250.0	258.1	
100 4-Chlorotoluene	126	11.101	11.101	0.000	99	518059	250.0	246.3	
101 tert-Butylbenzene	119	11.393	11.393	0.000	94	1726019	250.0	255.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 1,2,4-Trimethylbenzene	105	11.460	11.459	0.001	97	1839274	250.0	255.1	
104 sec-Butylbenzene	105	11.618	11.618	0.000	95	2514863	250.0	262.2	
105 1,3-Dichlorobenzene	146	11.721	11.721	0.000	98	940494	250.0	251.3	
106 4-Isopropyltoluene	119	11.782	11.782	0.000	95	2016739	250.0	259.5	
107 1,4-Dichlorobenzene	146	11.831	11.831	0.000	95	892716	250.0	257.5	
111 1,2-Dichlorobenzene	146	12.171	12.171	0.000	98	809456	250.0	250.9	
110 n-Butylbenzene	91	12.190	12.190	0.000	97	1916377	250.0	258.7	
112 1,2-Dibromo-3-Chloropropan	75	12.962	12.968	-0.006	83	27287	250.0	245.4	
113 1,2,4-Trichlorobenzene	180	13.777	13.777	0.000	95	344249	250.0	234.6	
115 Hexachlorobutadiene	225	13.936	13.929	0.007	97	367257	250.0	250.8	
116 Naphthalene	128	14.033	14.033	0.000	97	507856	250.0	236.6	
117 1,2,3-Trichlorobenzene	180	14.252	14.252	0.000	94	257321	250.0	241.4	
S 129 1,2-Dichloroethene, Total	96				0		500.0	490.9	
S 130 Xylenes, Total	106				0		500.0	491.6	
S 131 1,3-Dichloropropene, Total	1				0		500.0	492.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00022	Amount Added:	10.00	Units: uL
VOA8260SURR_00017	Amount Added:	10.00	Units: uL
voaWVOA Pri R_00001	Amount Added:	10.00	Units: uL
VOAACROPRI_00002	Amount Added:	40.00	Units: uL
voaWVA pri Re_00004	Amount Added:	10.00	Units: uL
voaW2-cle PRi_00002	Amount Added:	10.00	Units: uL

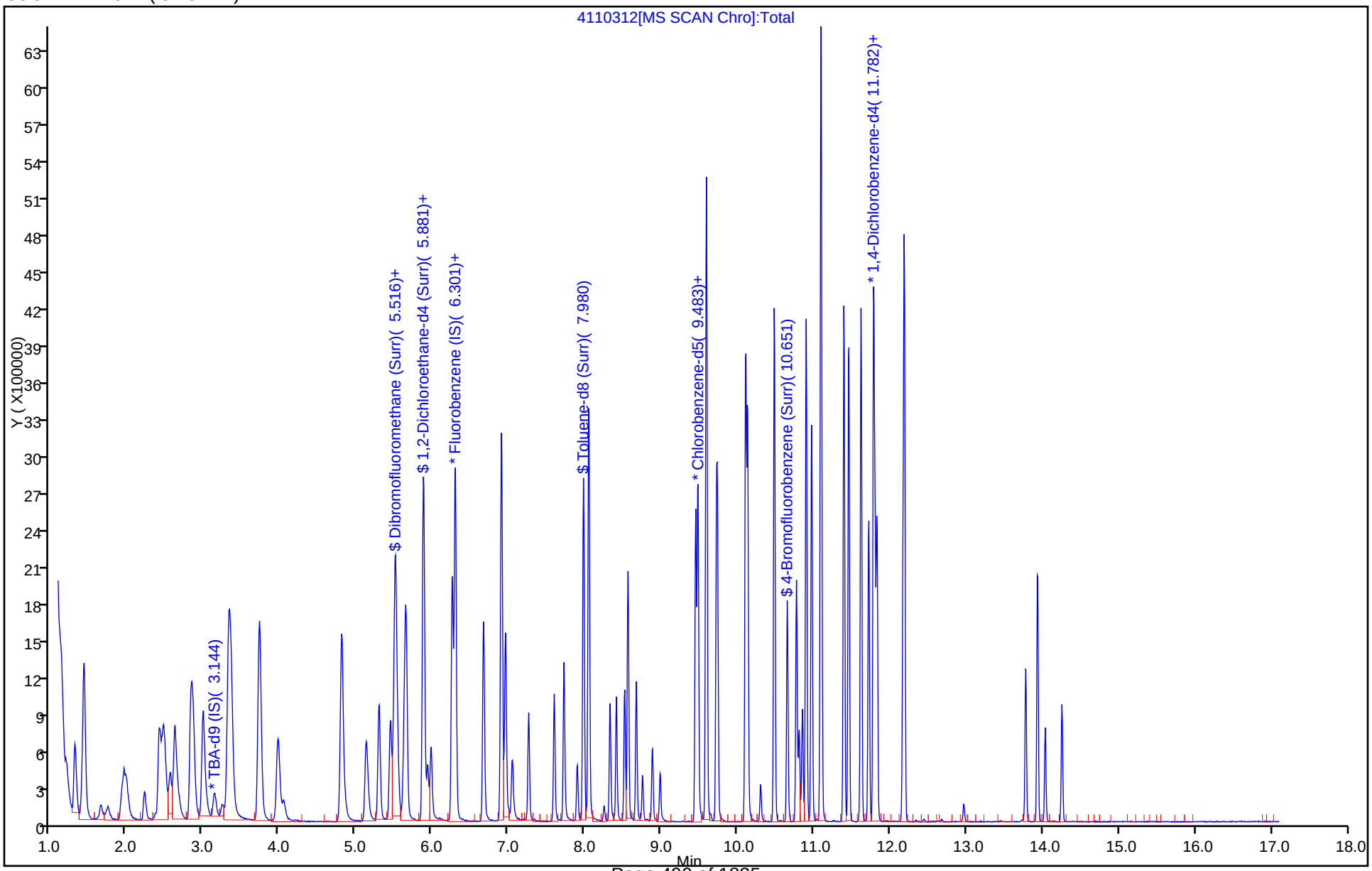
Report Date: 03-Nov-2014 16:25:21 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D

Injection Date:	03-Nov-2014 16:24:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

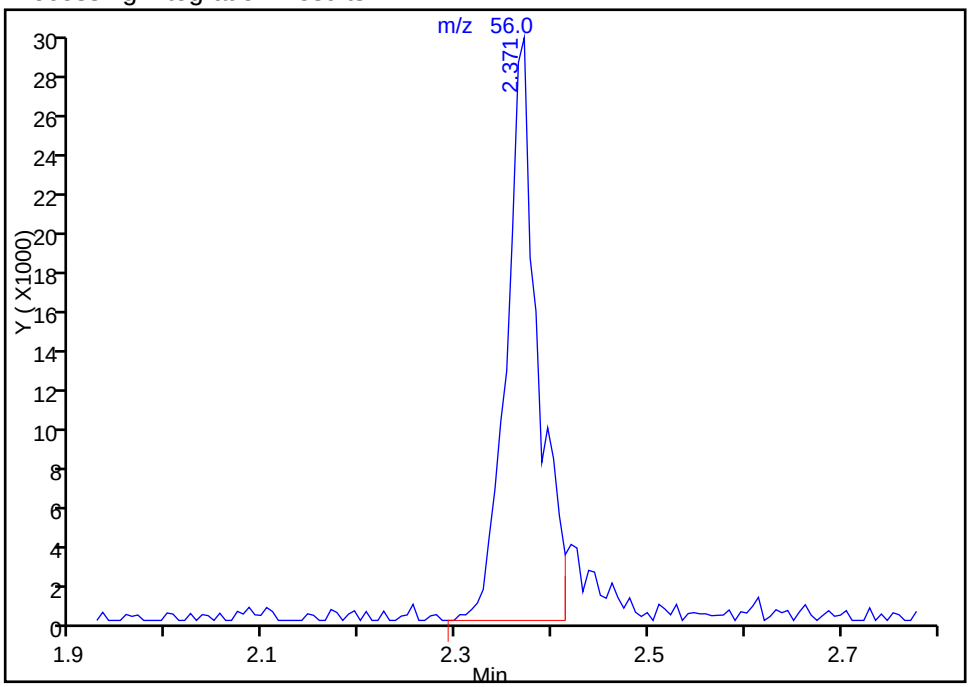
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D
Injection Date: 03-Nov-2014 16:24:30 Instrument ID: CHHP4
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP4 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

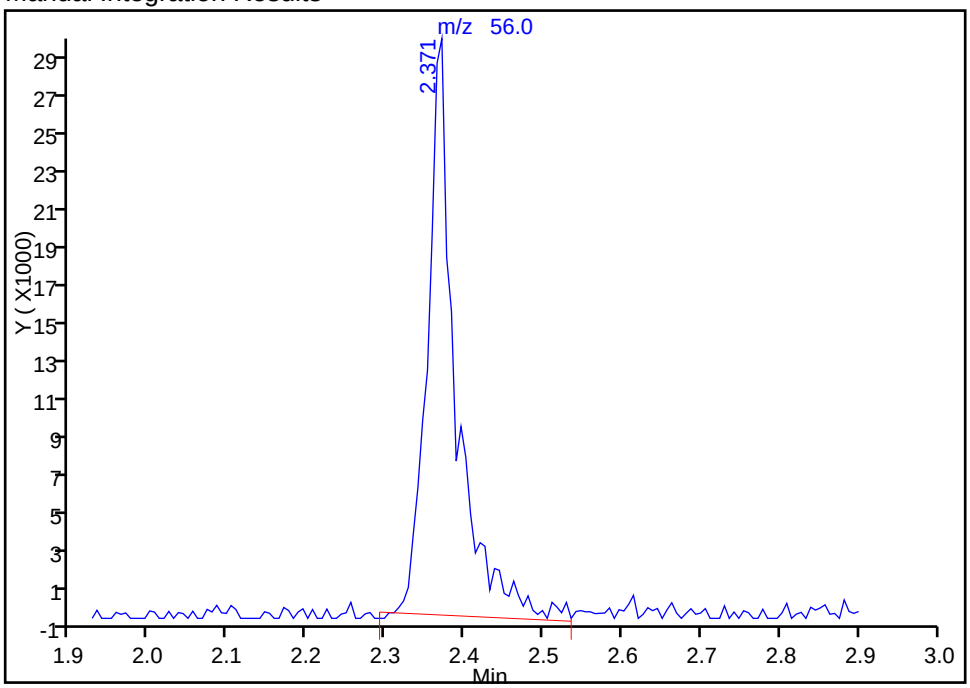
Processing Integration Results

RT: 2.37
Response: 67504
Amount: 742.8691



Manual Integration Results

RT: 2.37
Response: 75280
Amount: 806.5622



Reviewer: journetp, 03-Nov-2014 15:55:47
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 122015

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/20/2014 12:49 Calibration End Date: 10/20/2014 15:38 Calibration ID: 18641

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-122015/3	7102003.D
Level 2	IC 180-122015/4	7102004.D
Level 3	IC 180-122015/5	7102005.D
Level 4	IC 180-122015/6	7102006.D
Level 5	IC 180-122015/7	7102007.D
Level 6	IC 180-122015/8	7102008.D
Level 7	IC 180-122015/9	7102009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol	0.0942 0.1622	0.1866 +++++	0.2032	0.1791	0.1841	Qua	-76.50	0.2078	-0.000001		0.0100				0.9990		0.9900
Acetonitrile	0.0252 0.0273	0.0255 0.0217	0.0269	0.0253	0.0186	Ave		0.0248			0.0100	13.0		20.0			
Chloroprene	0.8574 0.7971	0.7315 0.7030	0.7349	0.7120	0.7092	Ave		0.7570			0.0100	7.7		20.0			
Isopropyl alcohol	0.2122 0.1856	0.2034 0.1475	0.1777	0.1701	0.1761	Ave		0.1875			0.0100	8.9		20.0			
Isopropyl ether	2.1278 1.8559	1.9579 +++++	1.9169	1.6893	1.7481	Ave		1.8827			0.0100	8.3		20.0			
Tert-butyl ethyl ether	1.6661 1.5150	1.6516 1.1937	1.3580	1.3860	1.3477	Ave		1.4874			0.0100	9.8		20.0			
Propionitrile	0.0397 0.0385	0.0473 0.0336	0.0384	0.0359	0.0327	Ave		0.0387			0.0100	13.0		20.0			
Ethyl acetate	0.3828 0.2116	0.2947 0.1863	0.1987	0.2021	0.1918	Qua	12.500	0.1473	0.0000435		0.0100				1.0000		0.9900
Methacrylonitrile	0.2284 0.1829	0.2281 +++++	0.1955	0.1770	0.1709	Ave		0.1971			0.0100	13.0		20.0			
Isooctane		1.6911				Ave		2.0520			0.0100	11.0		20.0			
Tert-amyl methyl ether	1.4796 1.1003	1.3214 +++++	1.0639	1.0233	0.9760	Ave		1.1608			0.0100	17.0		20.0			
n-Butanol	0.0066 0.0056	0.0081 0.0051	0.0061	0.0060	0.0059	Ave		0.0064		*	0.0100	14.0		20.0			
Ethyl acrylate	1.8576 1.5738	1.7625 1.3018	1.6521	1.3076	1.3266	Ave		1.5800			0.0100	14.0		20.0			
Methyl methacrylate	0.2010 0.1657	0.1847 0.1442	0.1649	0.1630	0.1453	Ave		0.1708			0.0100	11.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 122015

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/20/2014 12:49 Calibration End Date: 10/20/2014 15:38 Calibration ID: 18641

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Nitropropane	0.4716 0.3501	0.3882 0.2974	0.3606	0.3029	0.2828	Ave		0.3594			0.0100	19.0		20.0			
2-Chloroethyl vinyl ether	0.1571 0.1524	0.1772 0.1505	0.1369	0.1419	0.1359	Ave		0.1502			0.0100	10.0		20.0			
n-Butyl acetate	2.9223 1.9748	2.3536 1.5847	1.8844	1.7035	1.7010	Qua	48.024	1.2823	0.0009836		0.0100				1.0000		0.9900
Cyclohexanone	0.0121 0.0138	0.0084 0.0131	0.0171	0.0163	0.0155	Qua	-5.486	0.0189	0		0.0100				0.9980		0.9900
1,2,3-Trimethylbenzene	4.4408 3.4013	3.7569 +++++	3.7148	3.2178	3.3535	Ave		3.6475			0.0100	12.0		20.0			
Benzyl chloride	1.3321 1.3669	1.3316 1.1763	1.2919	1.2414	1.1930	Ave		1.2928			0.0100	5.0		20.0			
1,3,5-Trichlorobenzene	0.3710 0.4268	0.3766 +++++	0.3832	0.4911	0.6742	Ave		0.4538			0.0100	26.0	*	20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 122015

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/20/2014 12:49 Calibration End Date: 10/20/2014 15:38 Calibration ID: 18641

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-122015/3	7102003.D
Level 2	IC 180-122015/4	7102004.D
Level 3	IC 180-122015/5	7102005.D
Level 4	IC 180-122015/6	7102006.D
Level 5	IC 180-122015/7	7102007.D
Level 6	IC 180-122015/8	7102008.D
Level 7	IC 180-122015/9	7102009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethanol	TBA	Qua	1835 71784	9093 +++++	20313	30253	31830	1250 31250	2500 +++++	6250	10000	12500
Acetonitrile	FB	Ave	4953 114639	9516 206764	28084	41062	37450	250 6250	500 12500	1250	2000	2500
Chloroprene	FB	Ave	16838 335133	27277 669852	76847	115517	142832	25.0 625	50.0 1250	125	200	250
Isopropyl alcohol	FB	Ave	41674 780276	75835 1405680	185847	275985	354702	250 6250	500 12500	1250	2000	2500
Isopropyl ether	FB	Ave	41788 780276	73005 +++++	200451	274054	352090	25.0 625	50.0 +++++	125	200	250
Tert-butyl ethyl ether	FB	Ave	32720 636966	61581 1137522	142000	224849	271428	25.0 625	50.0 1250	125	200	250
Propionitrile	FB	Ave	7791 161902	17627 320197	40169	58291	65855	250 6250	500 12500	1250	2000	2500
Ethyl acetate	FB	Qua	15036 177951	21973 355050	41560	65569	77280	50.0 1250	100 2500	250	400	500
Methacrylonitrile	FB	Ave	44853 769043	85052 +++++	204452	287088	344298	250 6250	500 +++++	1250	2000	2500
Isooctane	FB	Ave		1611476					1250			
Tert-amyl methyl ether	FB	Ave	29057 462596	49272 +++++	111254	166017	196577	25.0 625	50.0 +++++	125	200	250
n-Butanol	FB	Ave	3257 59104	7556 121536	16046	24179	29460	625 15625	1250 31250	3125	5000	6250
Ethyl acrylate	CBZ	Ave	8526 144010	15483 285337	36807	49087	59345	25.0 625	50.0 1250	125	200	250
Methyl methacrylate	FB	Ave	7894 139362	13775 274727	34492	52872	58541	50.0 1250	100 2500	250	400	500
2-Nitropropane	CBZ	Ave	4329 64076	6820 130352	16067	22741	25300	50.0 1250	100 2500	250	400	500

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 122015

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/20/2014 12:49 Calibration End Date: 10/20/2014 15:38 Calibration ID: 18641

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Chloroethyl vinyl ether	FB	Ave	6170 128130	13216 286826	28631	46031	54746	50.0 1250	100 2500	250	400	500
n-Butyl acetate	CBZ	Qua	13413 180710	20676 347336	41983	63949	76093	25.0 625	50.0 1250	125	200	250
Cyclohexanone	CBZ	Qua	1115 25196	1473 57224	7609	12257	13824	500 12500	1000 25000	2500	4000	5000
1,2,3-Trimethylbenzene	DCB	Ave	24500 459832	43002 +++++	107361	160223	203731	25.0 625	50.0 +++++	125	200	250
Benzyl chloride	DCB	Ave	7349 184803	15242 372964	37338	61810	72474	25.0 625	50.0 1250	125	200	250
1,3,5-Trichlorobenzene	DCB	Ave	2047 57703	4311 +++++	11074	24454	40959	25.0 625	50.0 +++++	125	200	250

Curve Type Legend:
Ave = Average ISTD
Qua = Quadratic ISTD

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Oct-2014 12:49:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0003900-003
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub3

Method: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 22-Oct-2014 13:30:07 Calib Date: 20-Oct-2014 14:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102007.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.579	4.592	-0.013	94	77924	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.414	7.415	-0.001	98	196387	250.0	250.0	
* 4 Chlorobenzene-d5	119	10.468	10.463	0.005	93	45898	250.0	250.0	
* 5 1,4-Dichlorobenzene-d4	152	12.785	12.787	-0.002	95	55170	250.0	250.0	
18 Ethanol	45	4.056	4.124	-0.068	23	1835	1250.0	801.4	
27 Acetonitrile	40	4.256	4.233	0.023	76	4953	250.0	259.5	M
38 2-Chloro-1,3-butadiene	53	5.504	5.505	-0.001	1	16838	25.0	28.6	M
39 Isopropyl ether	45	5.534	5.529	0.005	96	41788	25.0	28.2	M
26 Isopropyl alcohol	45	5.534	5.529	0.005	90	41674	250.0	282.3	
40 Tert-butyl ethyl ether	59	5.972	5.973	-0.001	97	32720	25.0	28.1	M
44 Propionitrile	54	6.234	6.253	-0.019	87	7791	250.0	255.6	M
45 Ethyl acetate	43	6.301	6.265	0.035	74	15036	50.0	48.4	M
46 Methacrylonitrile	41	6.392	6.405	-0.013	96	44853	250.0	285.5	
57 Isooctane	57	7.219	7.220	-0.001	97	47056	NC	NC	M
58 Tert-amyl methyl ether	73	7.262	7.257	0.005	95	29057	25.0	31.5	M
60 n-Butanol	56	7.821	7.786	0.035	1	3257	625.0	634.2	M
62 Ethyl acrylate	55	7.937	7.932	0.005	53	8526	25.0	29.4	
66 Methyl methacrylate	69	8.180	8.170	0.011	1	7894	50.0	58.5	M
69 2-Nitropropane	41	8.570	8.559	0.011	1	4329	50.0	65.3	M
70 2-Chloroethyl vinyl ether	63	8.643	8.644	-0.001	86	6170	50.0	52.4	
80 n-Butyl acetate	43	9.896	9.885	0.011	95	13413	25.0	24.4	M
92 Cyclohexanone	55	11.599	11.576	0.023	1	1115	500.0	437.7	
102 Pentachloroethane	167	12.408	12.410	-0.002	89	4767	25.0	28.6	
108 1,2,3-Trimethylbenzene	105	12.858	12.860	-0.002	99	24500	25.0	30.0	
109 Benzyl chloride	91	12.956	12.945	0.011	93	7349	25.0	26.1	M
113 1,3,5-Trichlorobenzene	180	14.197	14.180	0.017	1	2047	25.0	20.2	M

QC Flag Legend

Processing Flags
NC - Not Calibrated

Review Flags
M - Manually Integrated

Reagents:

voaWap9 Pr Re_00001	Amount Added: 1.00	Units: uL
VOA8260INT_00021	Amount Added: 10.00	Units: uL
VOA2CEVEPRI_00008	Amount Added: 1.00	Units: uL

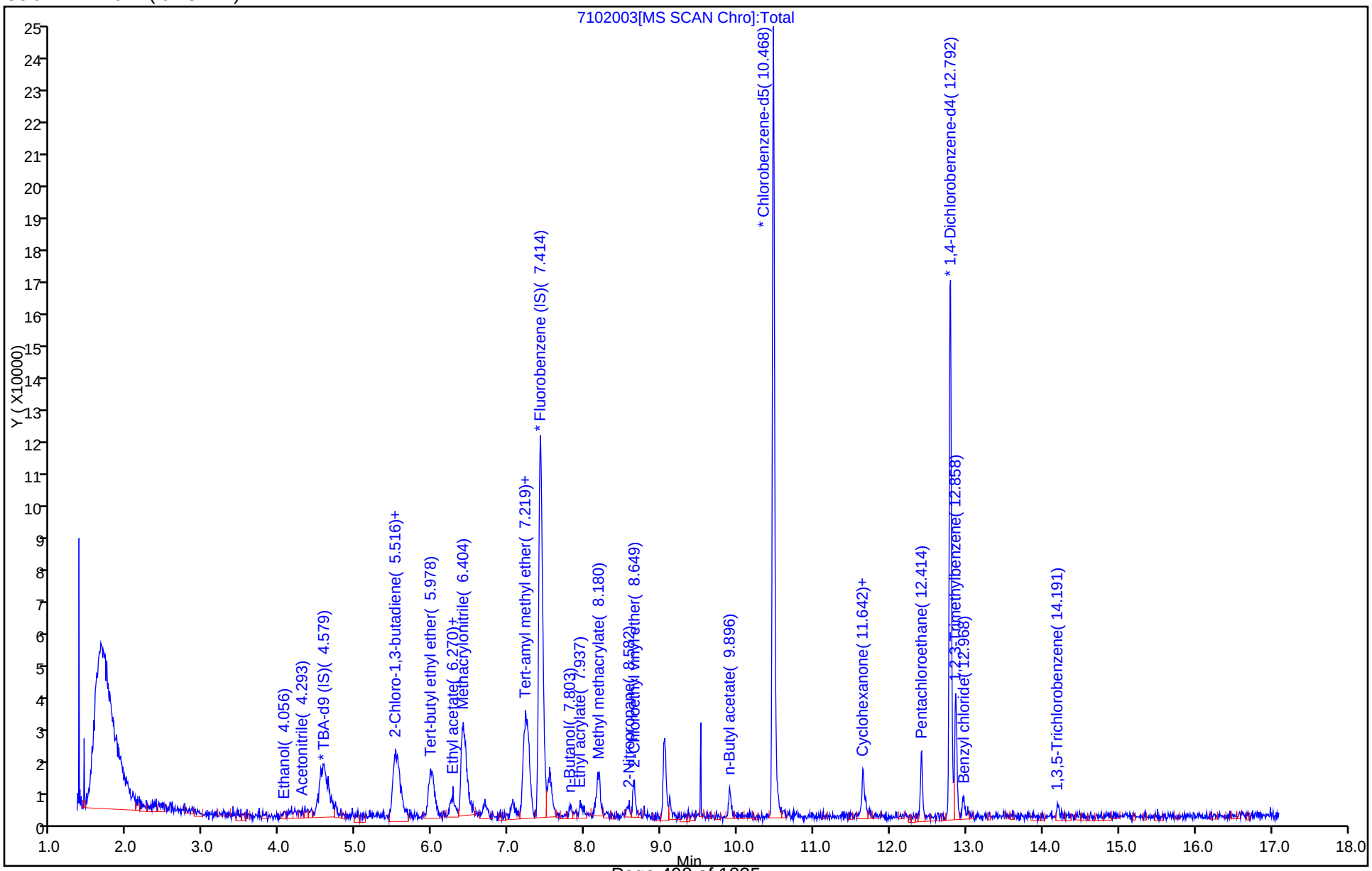
Report Date: 22-Oct-2014 13:30:08 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D

Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

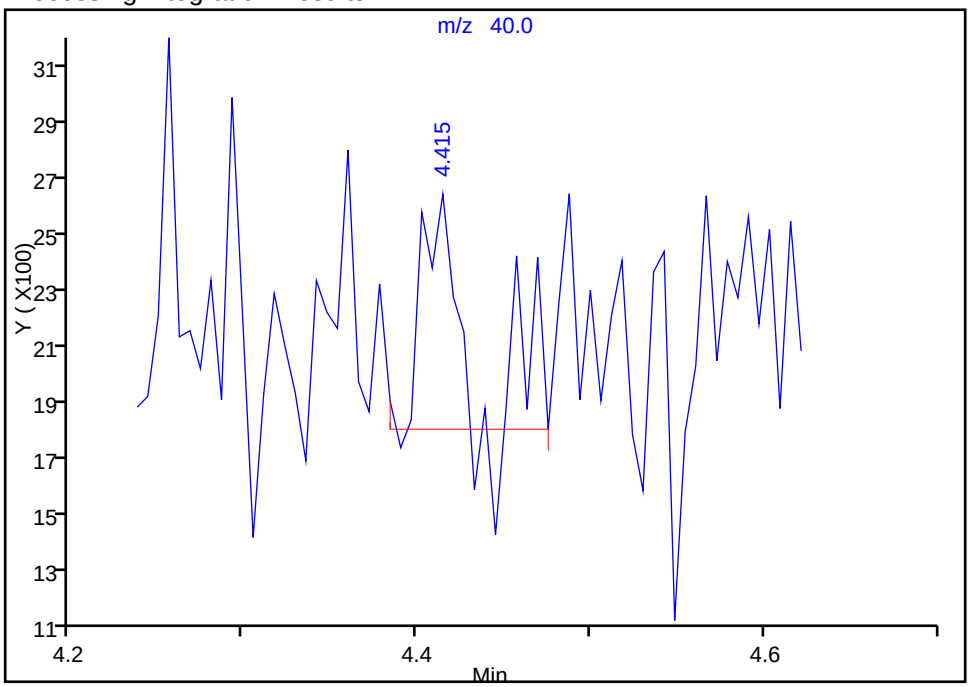
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D				
Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

27 Acetonitrile, CAS: 75-05-8

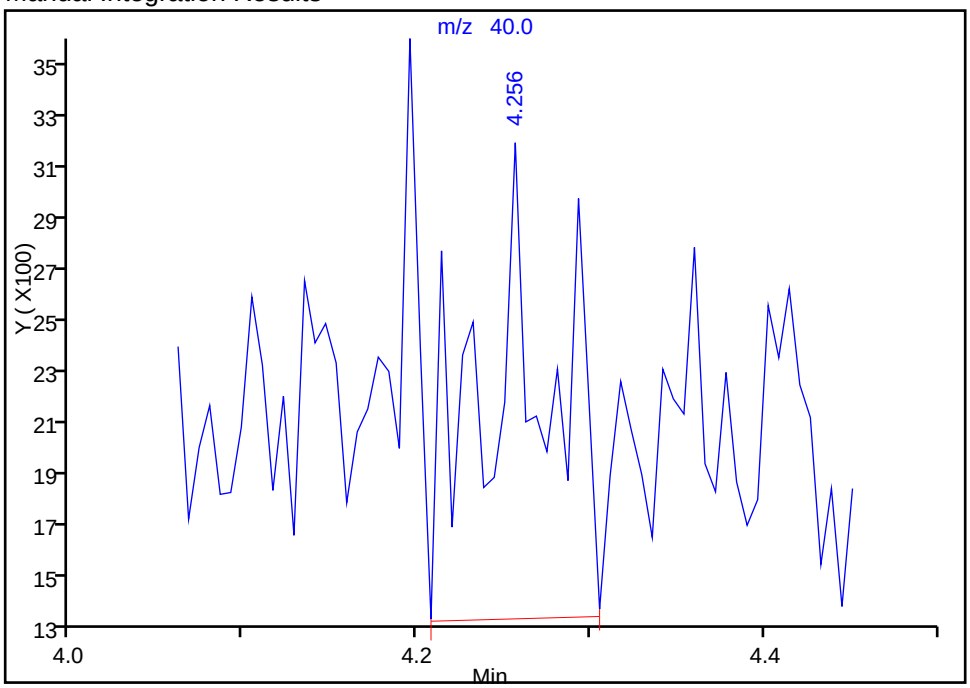
Processing Integration Results

RT: 4.41
Response: 1421
Amount: 199.7256



Manual Integration Results

RT: 4.26
Response: 4953
Amount: 259.4635



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

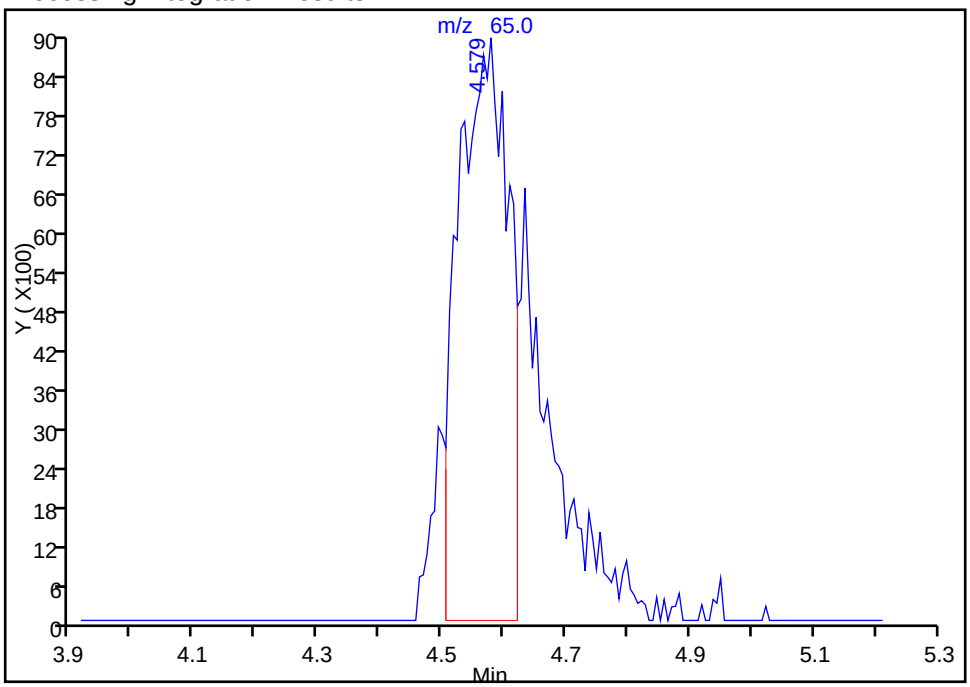
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D				
Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

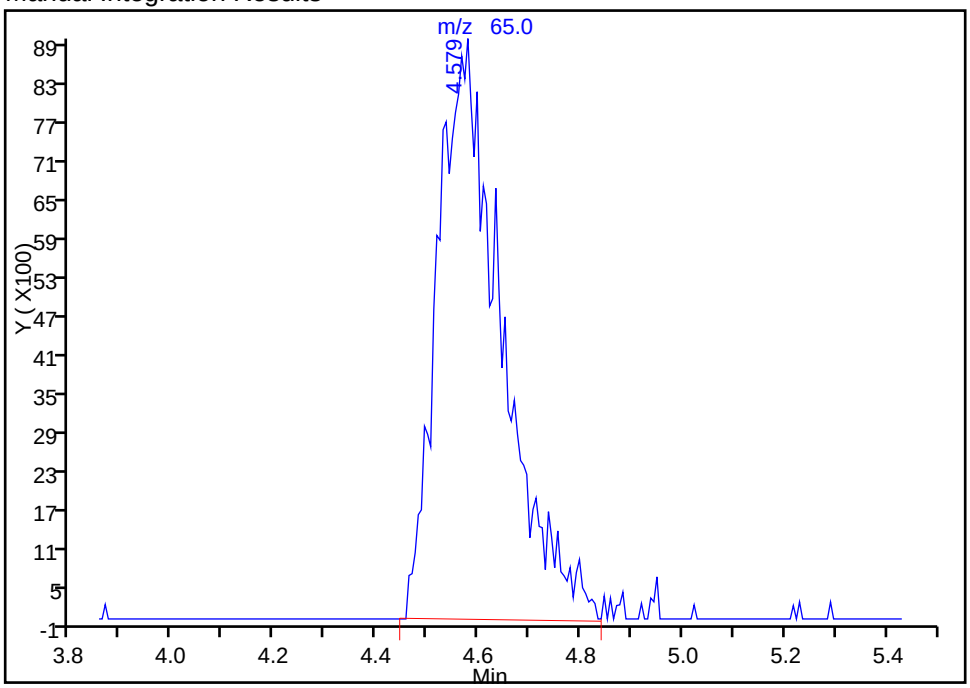
Processing Integration Results

RT: 4.58
Response: 49985
Amount: 5000.0000



Manual Integration Results

RT: 4.58
Response: 77924
Amount: 5000.0000



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

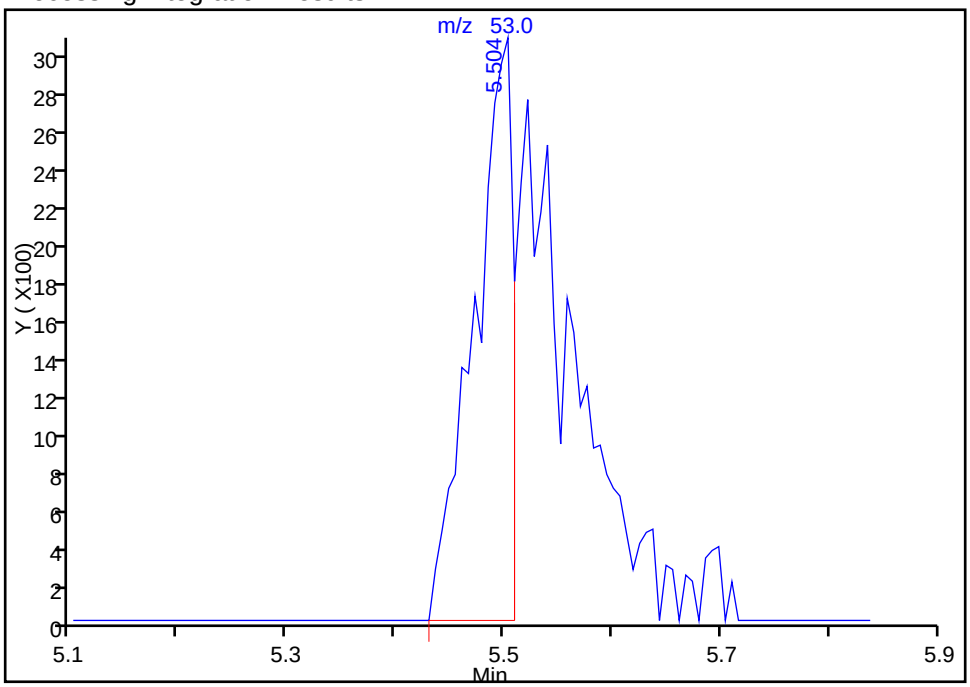
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D				
Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

38 2-Chloro-1,3-butadiene, CAS: 126-99-8

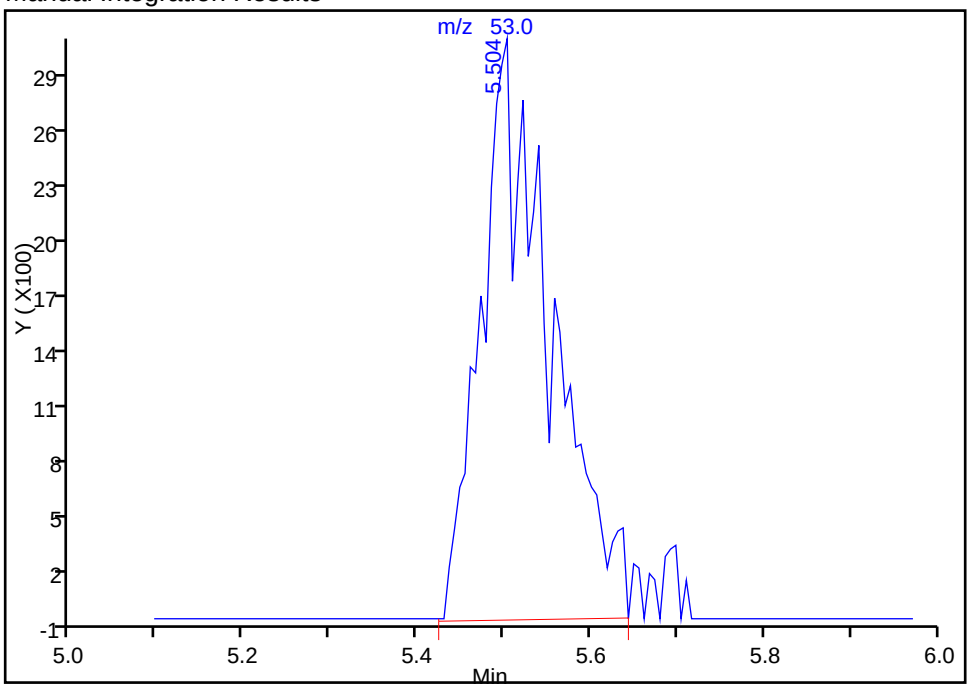
Processing Integration Results

RT: 5.50
Response: 7503
Amount: 19.997363



Manual Integration Results

RT: 5.50
Response: 16838
Amount: 28.617397



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

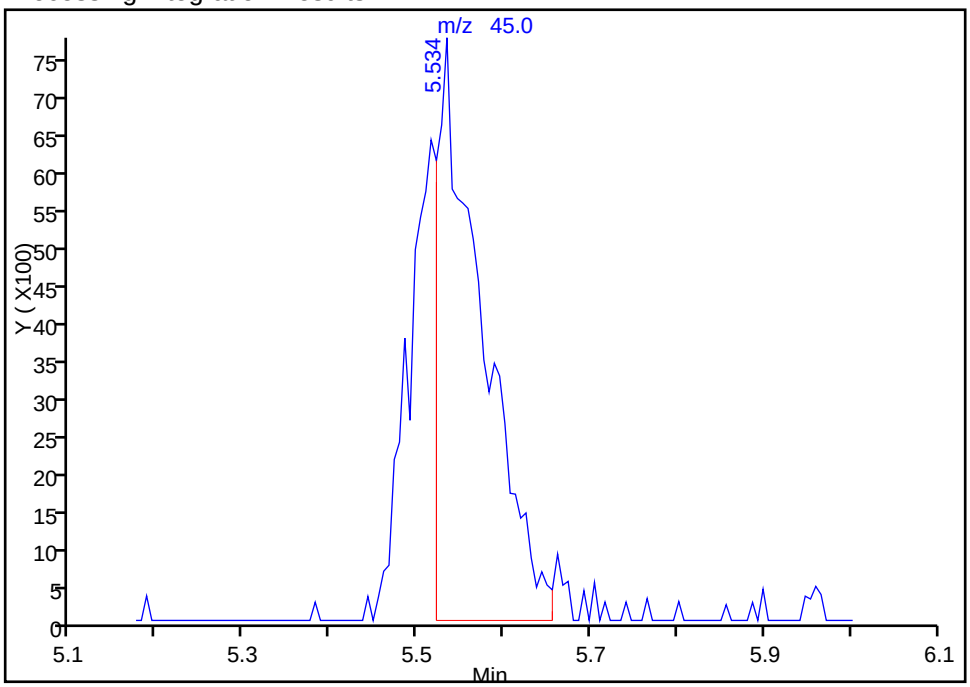
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D				
Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

39 Isopropyl ether, CAS: 108-20-3

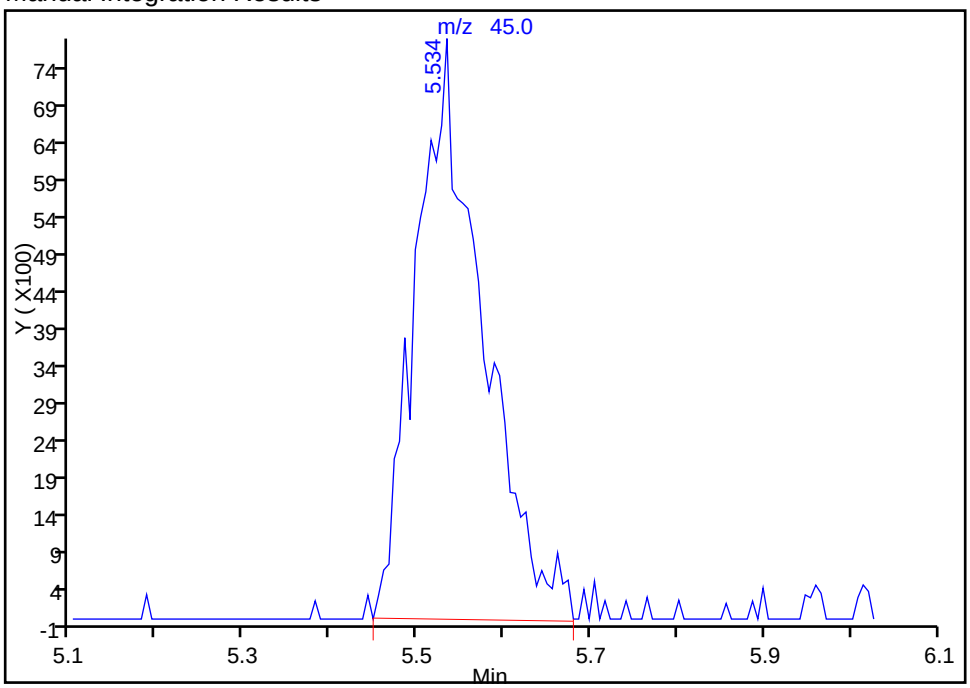
Processing Integration Results

RT: 5.53
Response: 28193
Amount: 20.307715



Manual Integration Results

RT: 5.53
Response: 41788
Amount: 28.175445



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

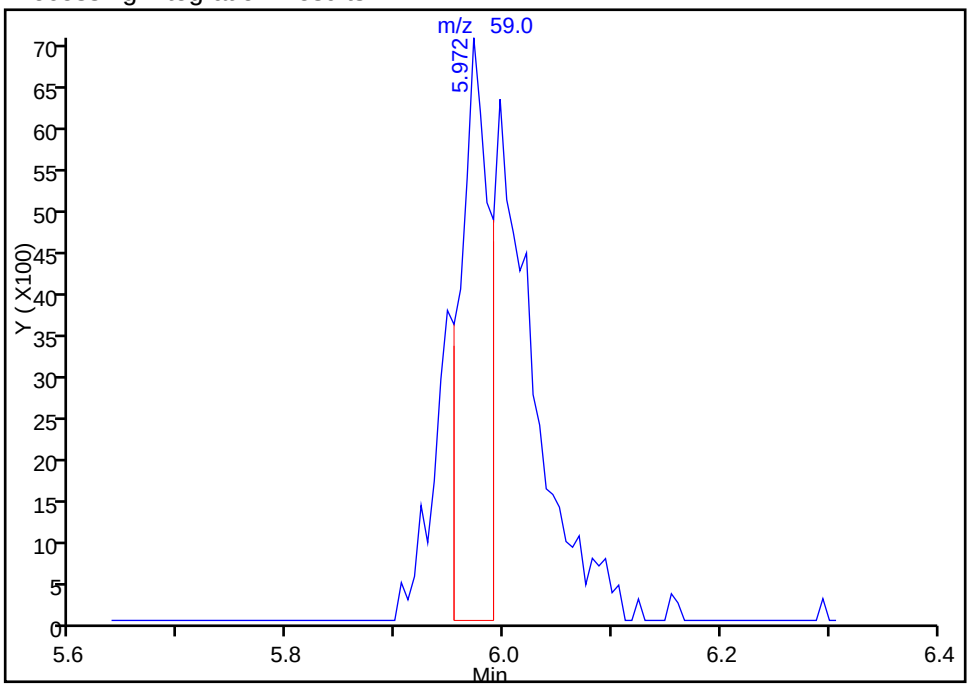
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D				
Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

40 Tert-butyl ethyl ether, CAS: 637-92-3

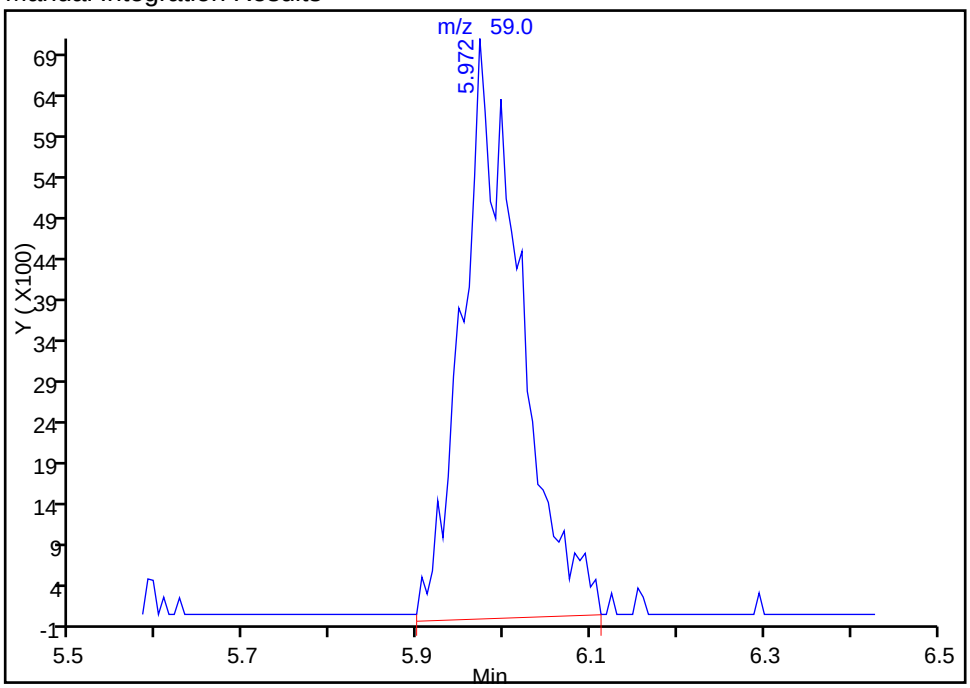
Processing Integration Results

RT: 5.97
Response: 13089
Amount: 31.907187



Manual Integration Results

RT: 5.97
Response: 32720
Amount: 28.108442



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

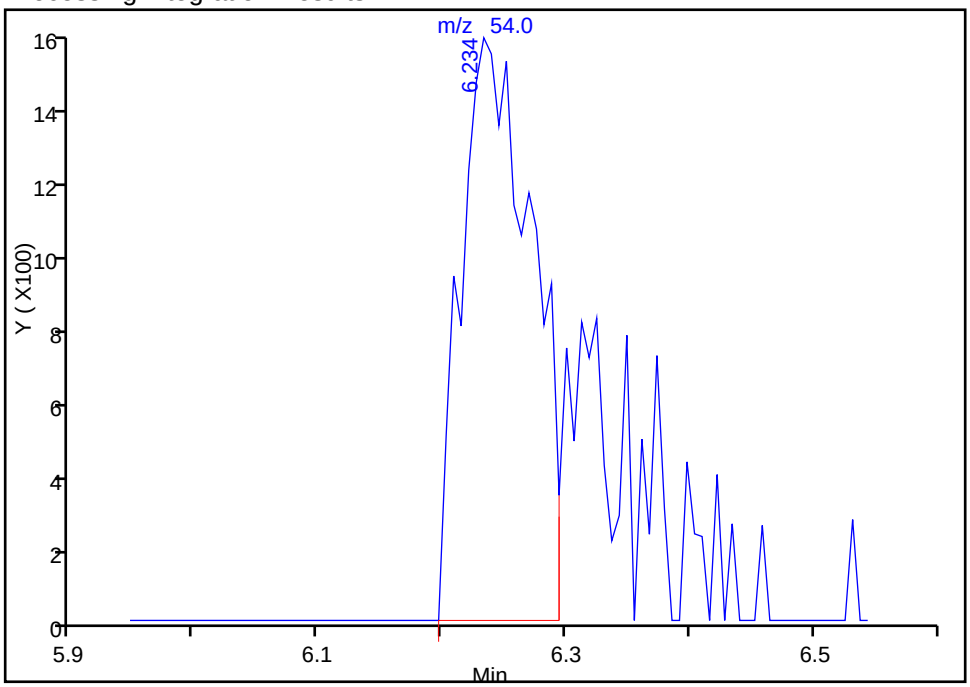
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D
Injection Date: 20-Oct-2014 12:49:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

44 Propionitrile, CAS: 107-12-0

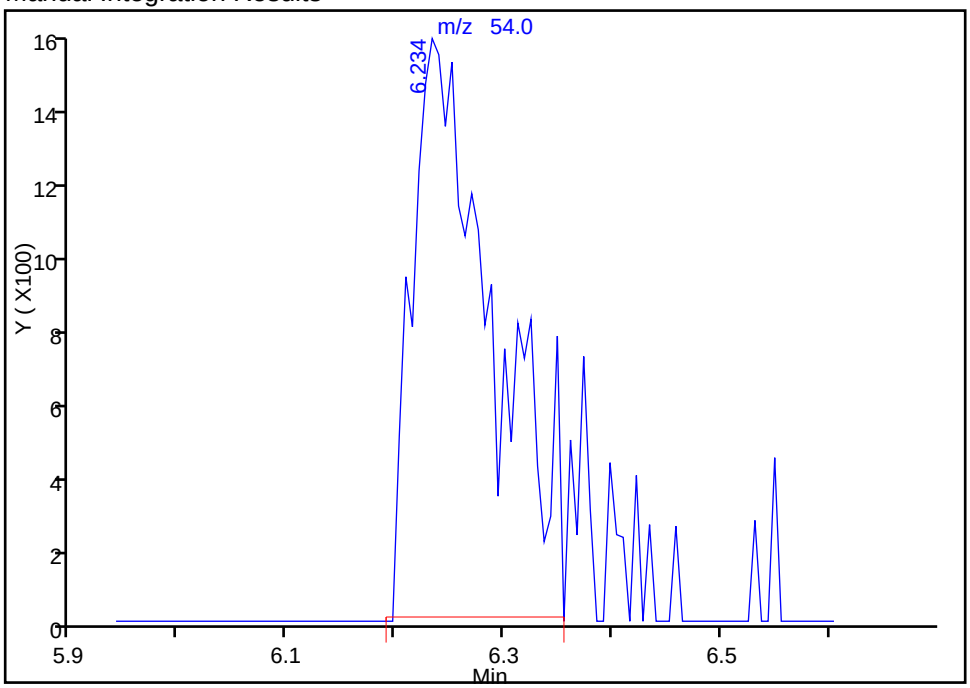
Processing Integration Results

RT: 6.23
Response: 6064
Amount: 210.0089



Manual Integration Results

RT: 6.23
Response: 7791
Amount: 255.6322



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

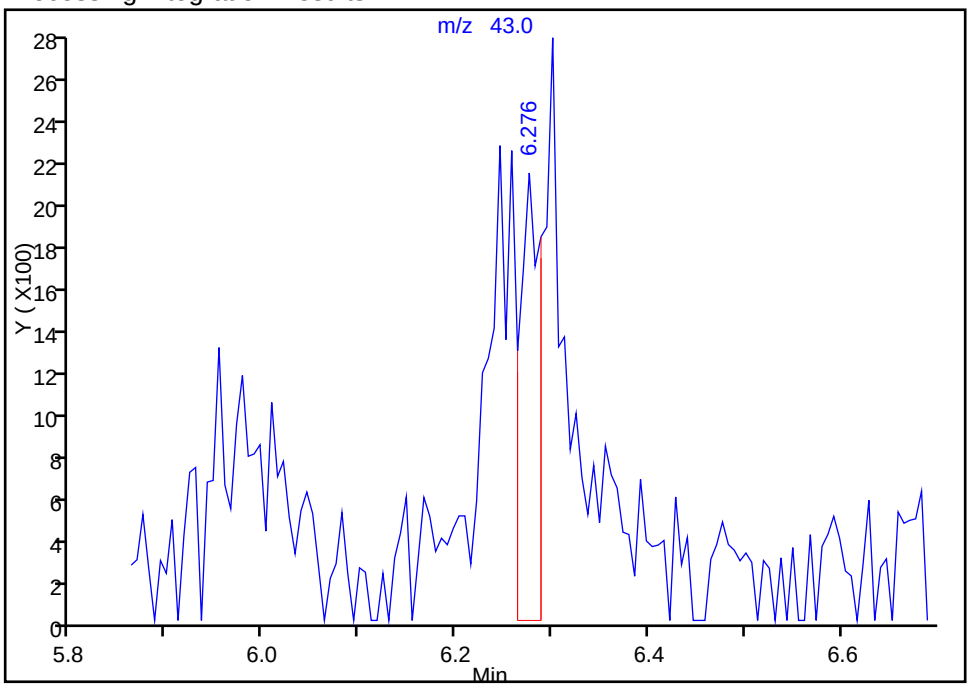
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D				
Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

45 Ethyl acetate, CAS: 141-78-6

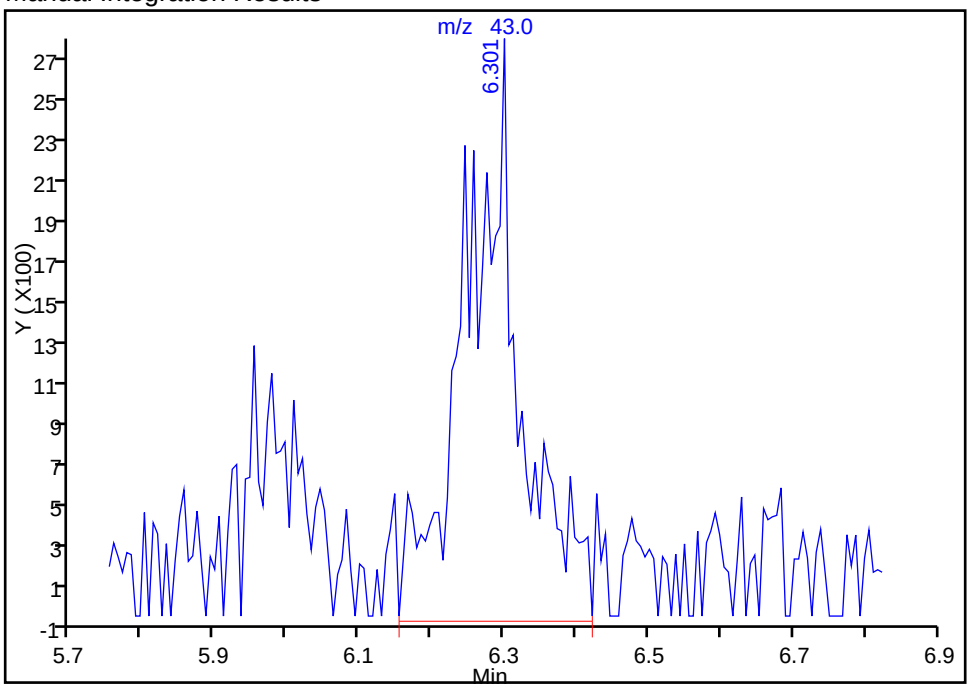
Processing Integration Results

RT: 6.28
Response: 3162
Amount: 39.966023



Manual Integration Results

RT: 6.30
Response: 15036
Amount: 48.418498



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

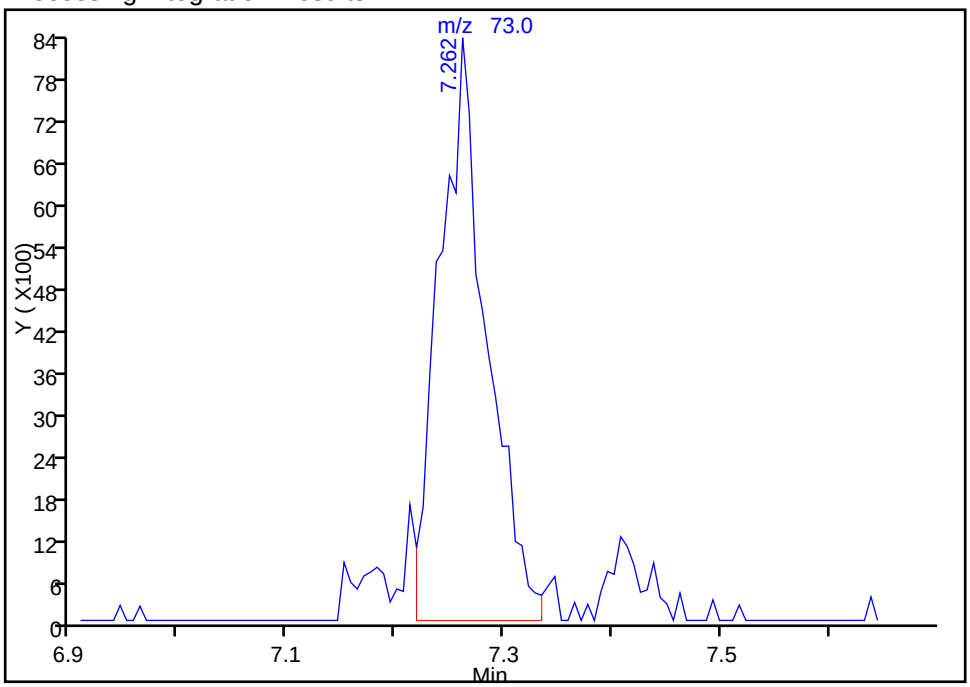
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D				
Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

58 Tert-amyl methyl ether, CAS: 994-05-8

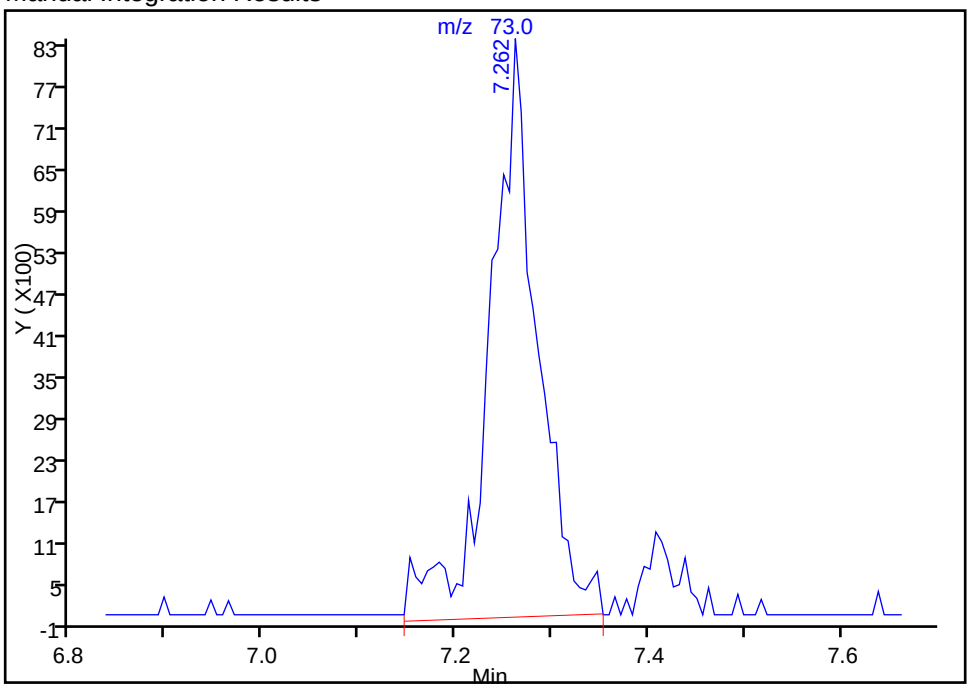
Processing Integration Results

RT: 7.26
Response: 25431
Amount: 28.499565



Manual Integration Results

RT: 7.26
Response: 29057
Amount: 31.537849



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

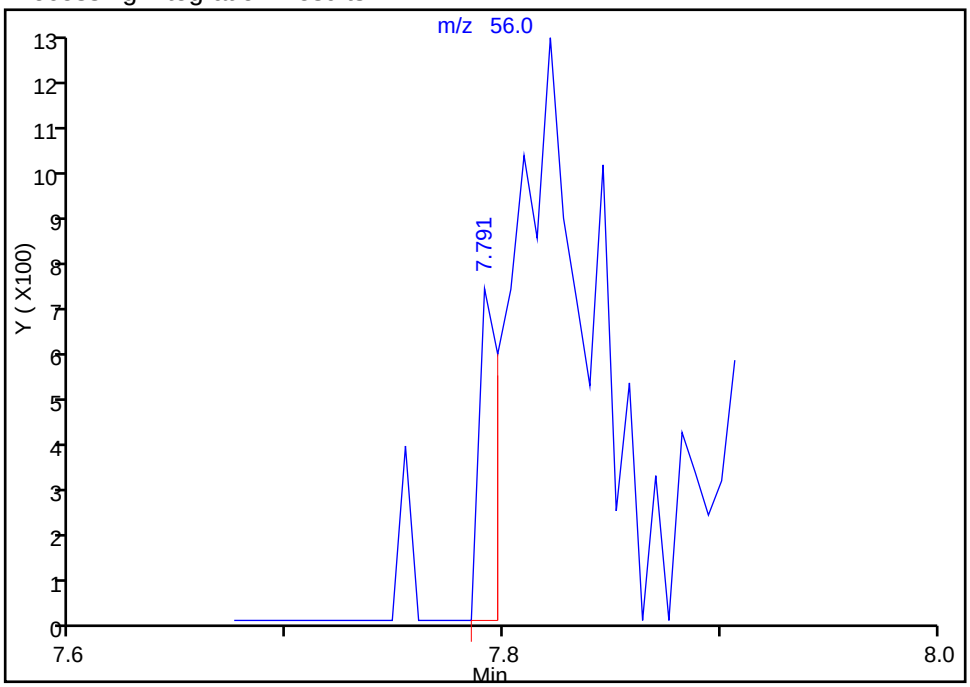
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D				
Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

60 n-Butanol, CAS: 71-36-3

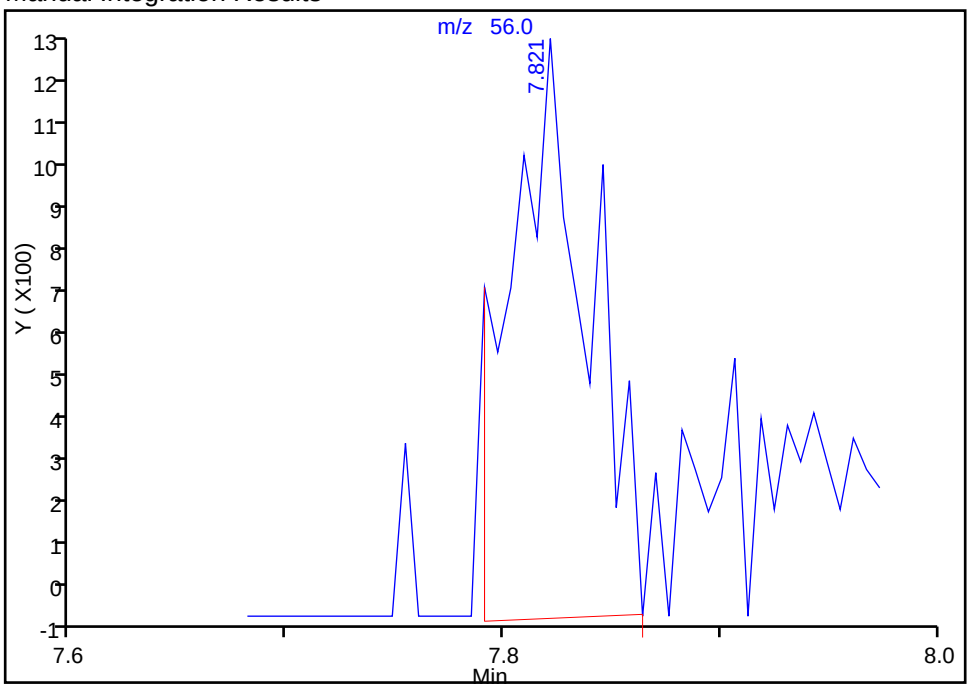
Processing Integration Results

RT: 7.79
Response: 471
Amount: 111.2091



Manual Integration Results

RT: 7.82
Response: 3257
Amount: 634.1602



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

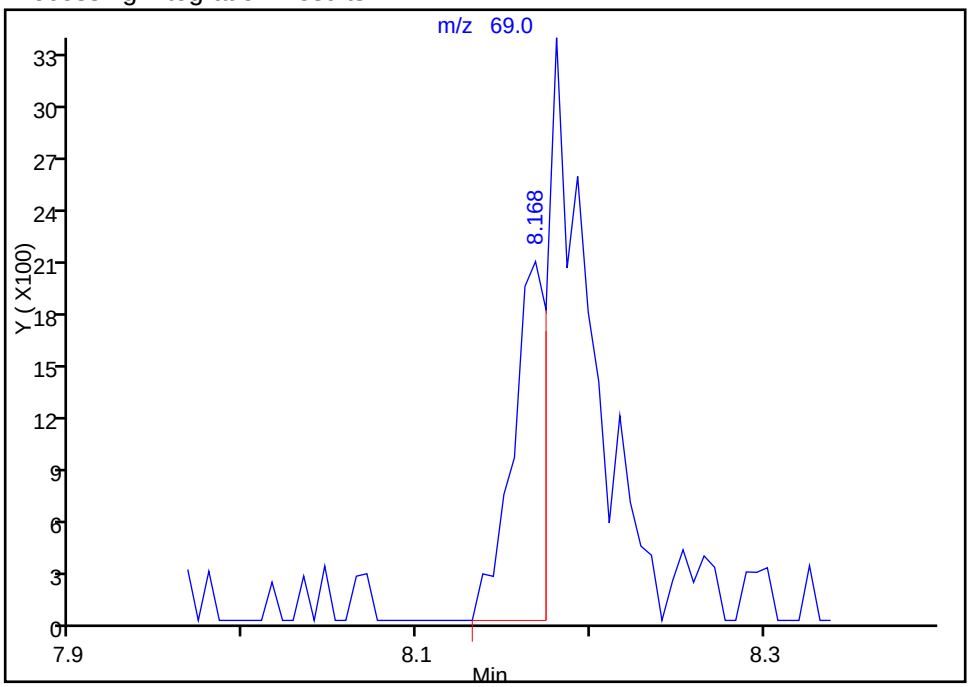
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D				
Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

66 Methyl methacrylate, CAS: 80-62-6

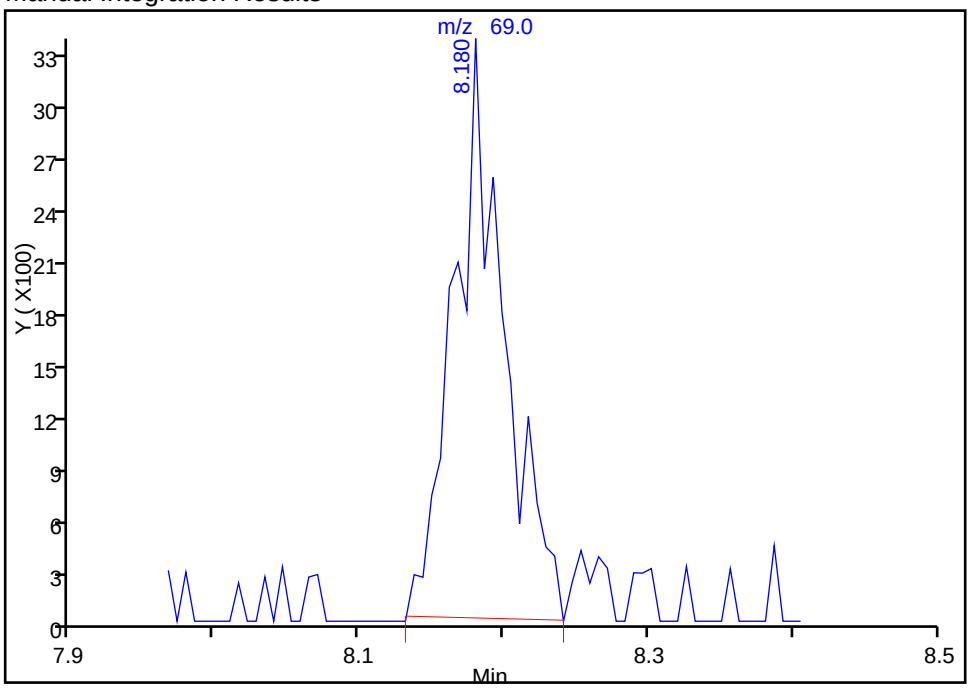
Processing Integration Results

RT: 8.17
Response: 2865
Amount: 48.150435



Manual Integration Results

RT: 8.18
Response: 7894
Amount: 58.499103



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

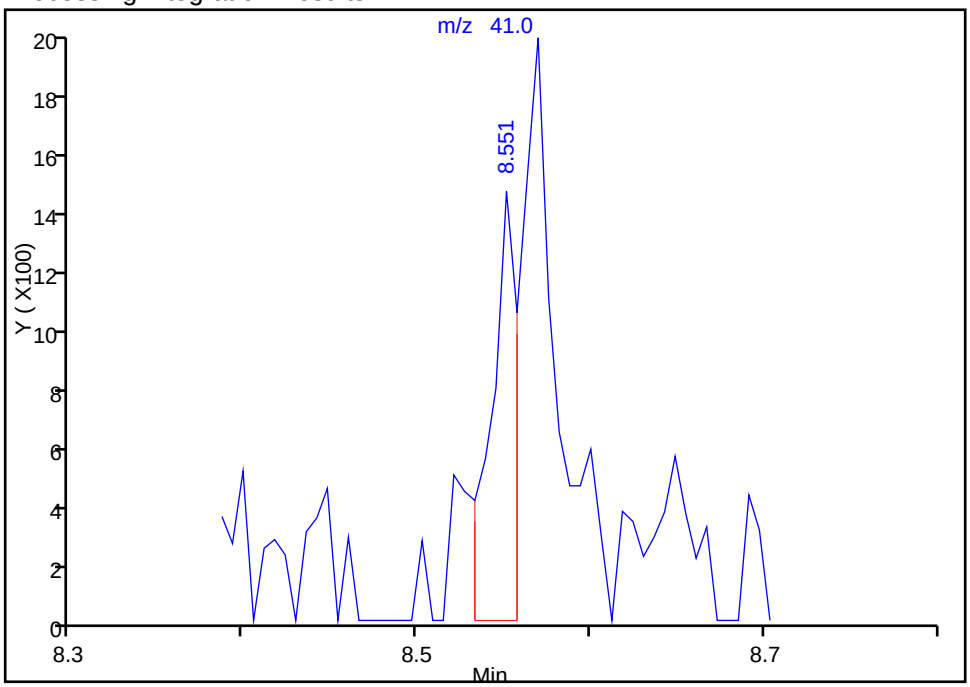
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D				
Injection Date:	20-Oct-2014 12:49:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

69 2-Nitropropane, CAS: 79-46-9

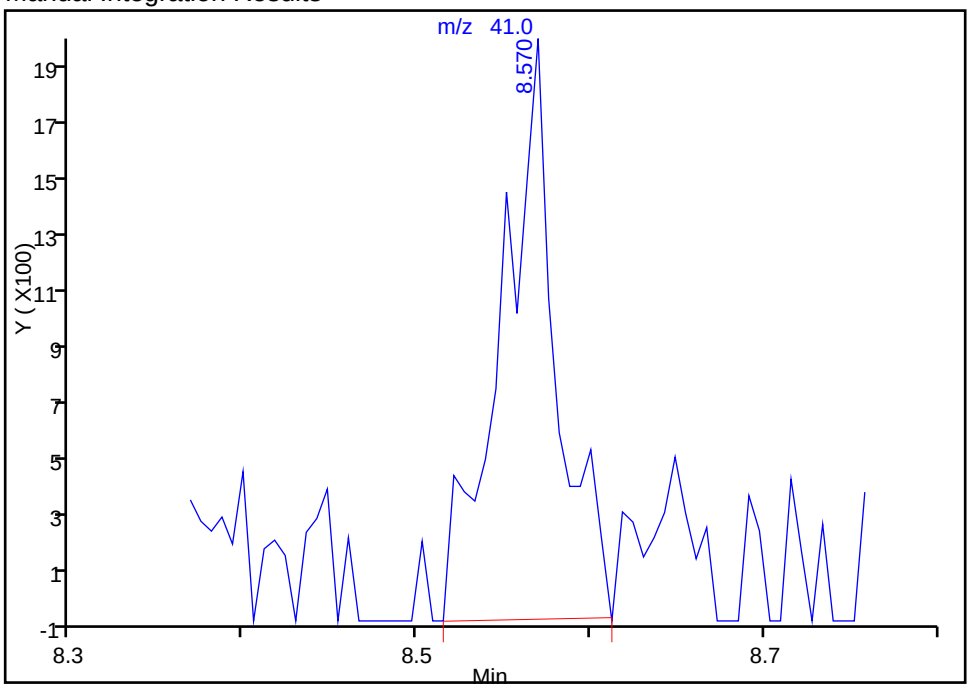
Processing Integration Results

RT: 8.55
Response: 1519
Amount: 57.234091



Manual Integration Results

RT: 8.57
Response: 4329
Amount: 65.280210



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

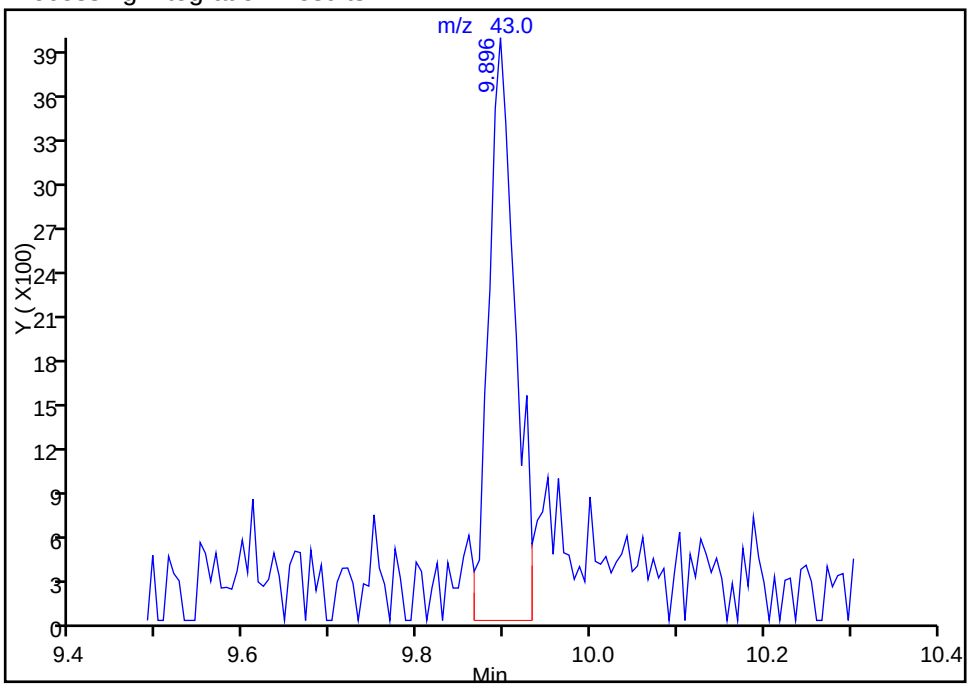
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D
Injection Date: 20-Oct-2014 12:49:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

80 n-Butyl acetate, CAS: 123-86-4

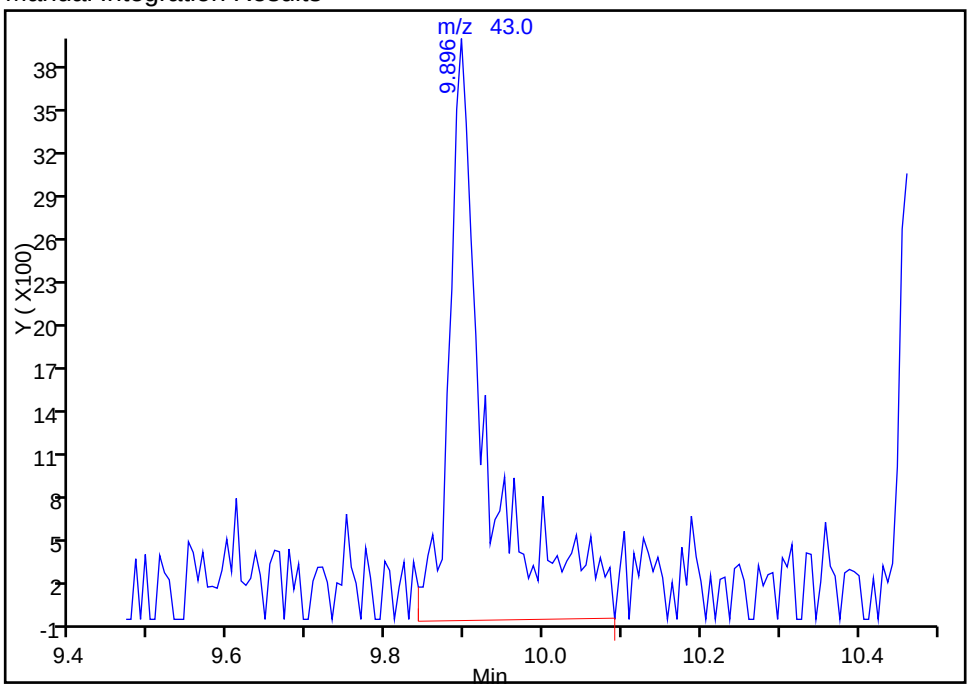
Processing Integration Results

RT: 9.90
Response: 8431
Amount: 24.653699



Manual Integration Results

RT: 9.90
Response: 13413
Amount: 24.399214



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

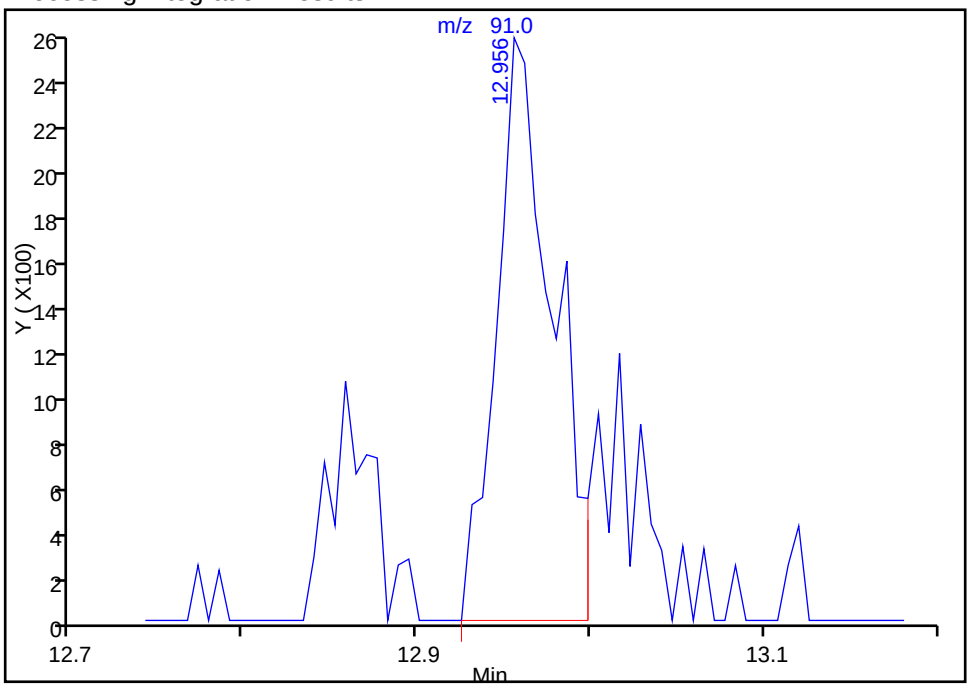
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D
Injection Date: 20-Oct-2014 12:49:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

109 Benzyl chloride, CAS: 100-44-7

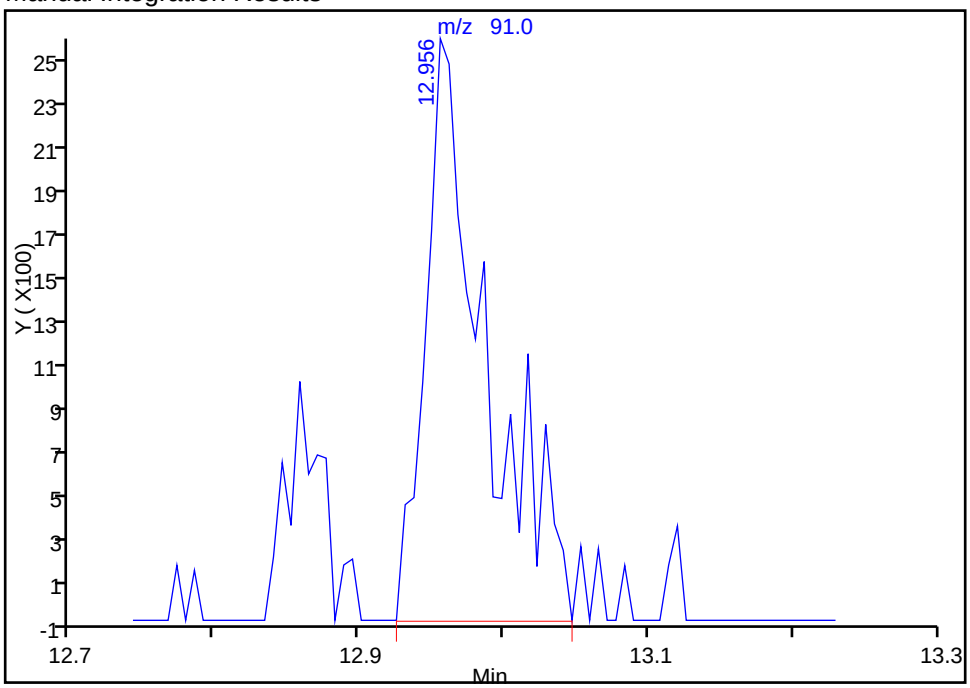
Processing Integration Results

RT: 12.96
Response: 5766
Amount: 21.153570



Manual Integration Results

RT: 12.96
Response: 7349
Amount: 26.057824



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

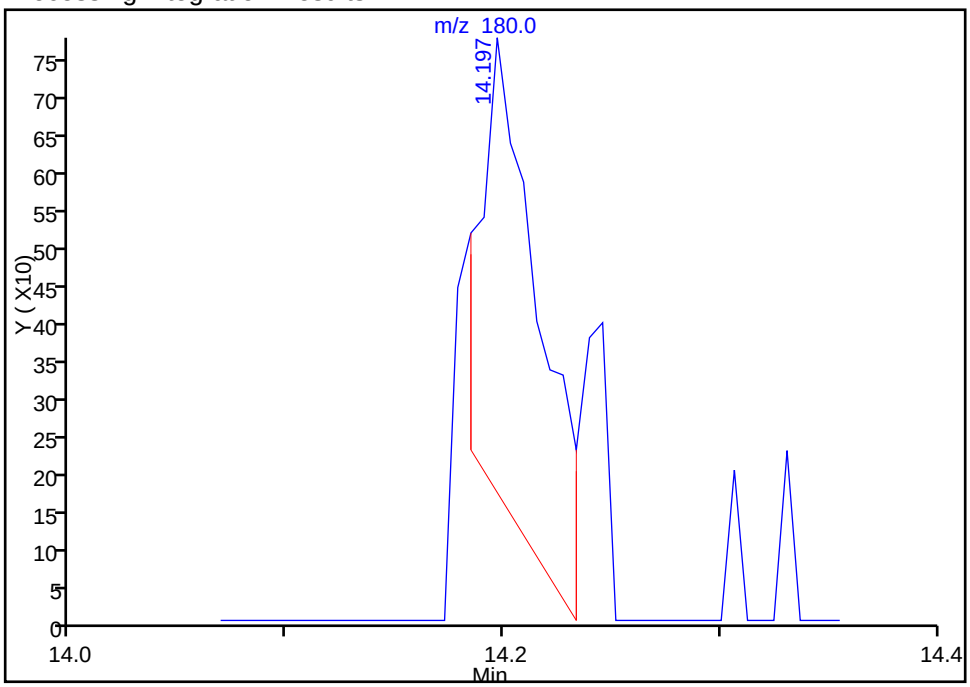
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102003.D
Injection Date: 20-Oct-2014 12:49:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

113 1,3,5-Trichlorobenzene, CAS: 108-70-3

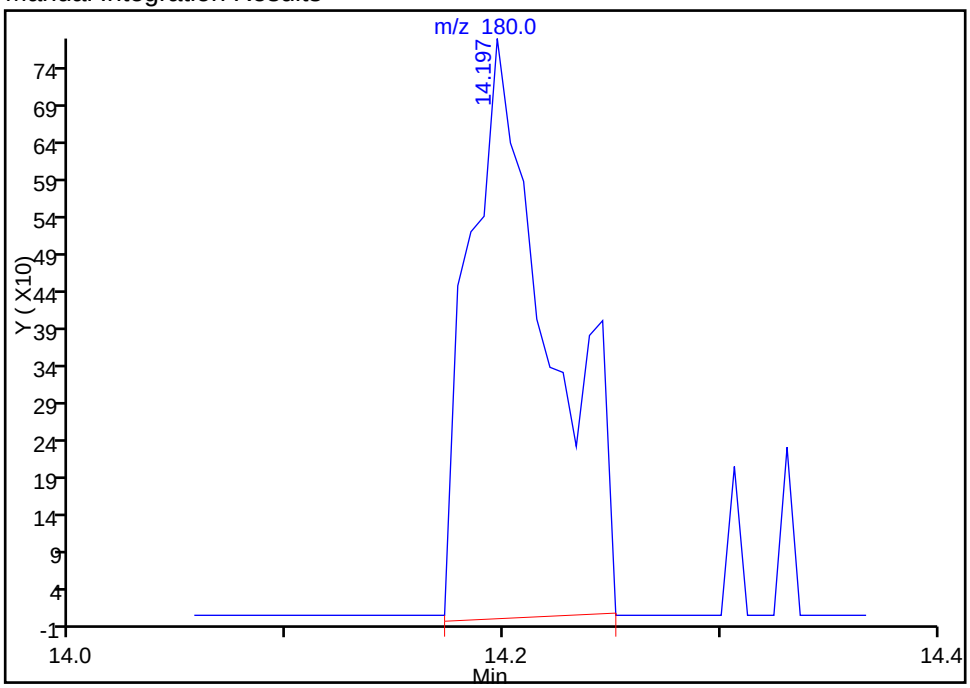
Processing Integration Results

RT: 14.20
Response: 1214
Amount: 12.406484



Manual Integration Results

RT: 14.20
Response: 2047
Amount: 20.198572



Reviewer: journetp, 20-Oct-2014 16:54:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Oct-2014 13:15:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0003900-004
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub3

Method: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 22-Oct-2014 13:30:09 Calib Date: 20-Oct-2014 14:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102007.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.592	4.592	0.000	92	97480	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.415	7.415	0.000	98	186433	250.0	250.0	
* 4 Chlorobenzene-d5	119	10.469	10.463	0.006	93	43924	250.0	250.0	
* 5 1,4-Dichlorobenzene-d4	152	12.787	12.787	0.000	97	57231	250.0	250.0	
18 Ethanol	45	4.124	4.124	0.000	30	9093	2500.0	2655.5	M
27 Acetonitrile	40	4.203	4.233	-0.030	56	9516	500.0	525.1	M
38 2-Chloro-1,3-butadiene	53	5.487	5.505	-0.018	56	27277	50.0	48.8	M
39 Isopropyl ether	45	5.529	5.529	0.000	98	73005	50.0	51.9	
26 Isopropyl alcohol	45	5.529	5.529	0.000	93	75835	500.0	541.2	
40 Tert-butyl ethyl ether	59	5.973	5.973	0.000	40	61581	50.0	55.7	M
44 Propionitrile	54	6.253	6.253	0.000	49	17627	500.0	609.2	M
45 Ethyl acetate	43	6.253	6.265	-0.012	41	21973	100.0	109.1	M
46 Methacrylonitrile	41	6.393	6.405	-0.012	96	85052	500.0	570.3	M
57 Isooctane	57	7.214	7.220	-0.006	97	80669	NC	NC	
58 Tert-amyl methyl ether	73	7.251	7.257	-0.006	97	49272	50.0	56.3	
60 n-Butanol	56	7.786	7.786	0.000	4	7556	1250.0	1549.8	M
62 Ethyl acrylate	55	7.938	7.932	0.006	97	15483	50.0	55.7	
66 Methyl methacrylate	69	8.175	8.170	0.006	89	13775	100.0	107.5	
69 2-Nitropropane	41	8.559	8.559	0.000	95	6820	100.0	107.5	M
70 2-Chloroethyl vinyl ether	63	8.632	8.644	-0.012	89	13216	100.0	118.3	
80 n-Butyl acetate	43	9.891	9.885	0.006	95	20676	50.0	52.6	
92 Cyclohexanone	55	11.582	11.576	0.006	1	1473	1000.0	604.2	
102 Pentachloroethane	167	12.410	12.410	0.000	88	8574	50.0	49.5	
108 1,2,3-Trimethylbenzene	105	12.860	12.860	0.000	97	43002	50.0	50.8	
109 Benzyl chloride	91	12.951	12.945	0.006	75	15242	50.0	52.1	
113 1,3,5-Trichlorobenzene	180	14.192	14.180	0.012	88	4311	50.0	41.0	M

QC Flag Legend

Processing Flags
NC - Not Calibrated

Review Flags
M - Manually Integrated

Reagents:

voaWap9 Pr Re_00001	Amount Added:	2.00	Units: uL
VOA2CEVEPRI_00008	Amount Added:	2.00	Units: uL
VOA8260INT_00021	Amount Added:	10.00	Units: uL

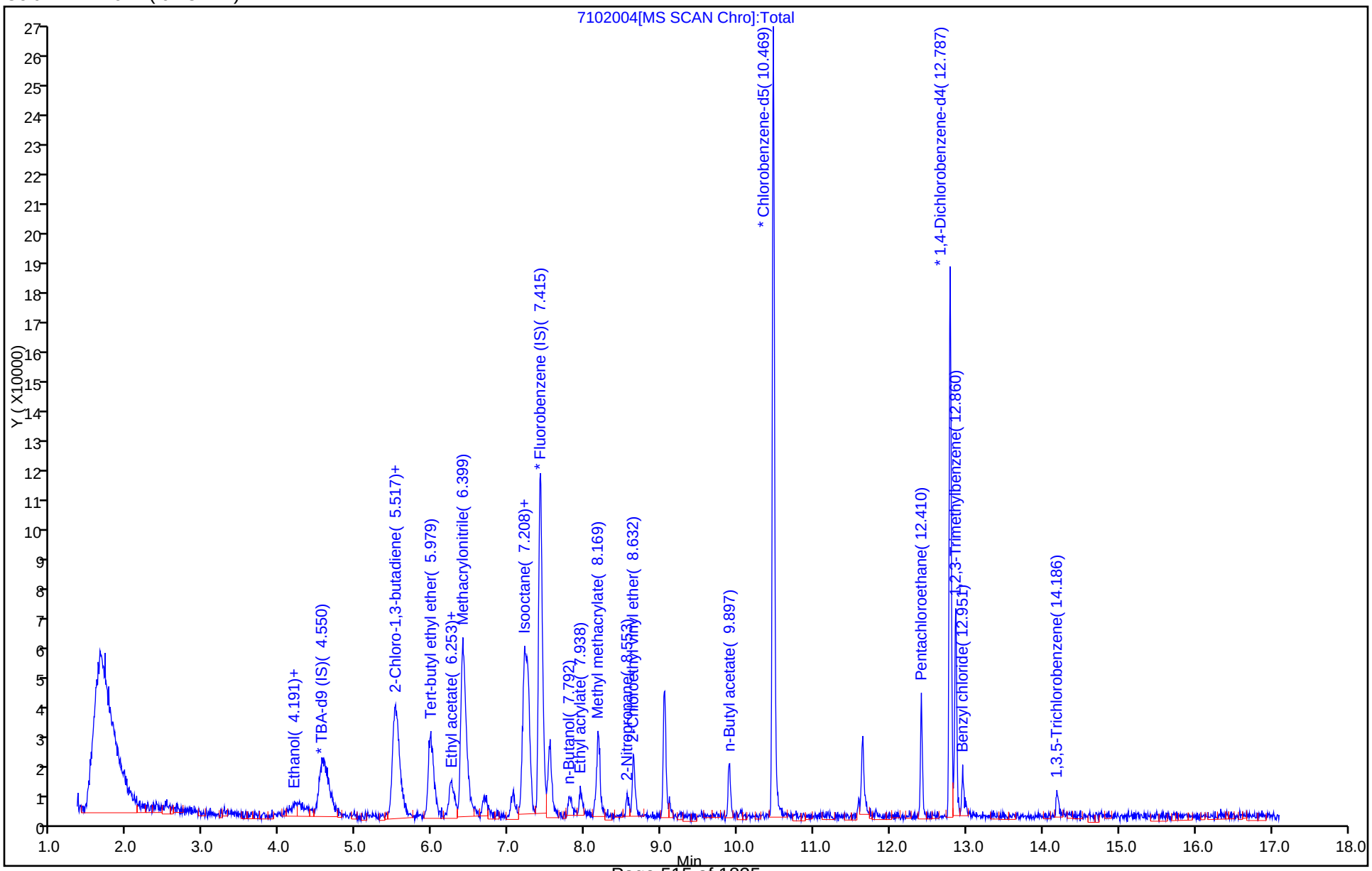
Report Date: 22-Oct-2014 13:30:09 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D

Injection Date:	20-Oct-2014 13:15:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

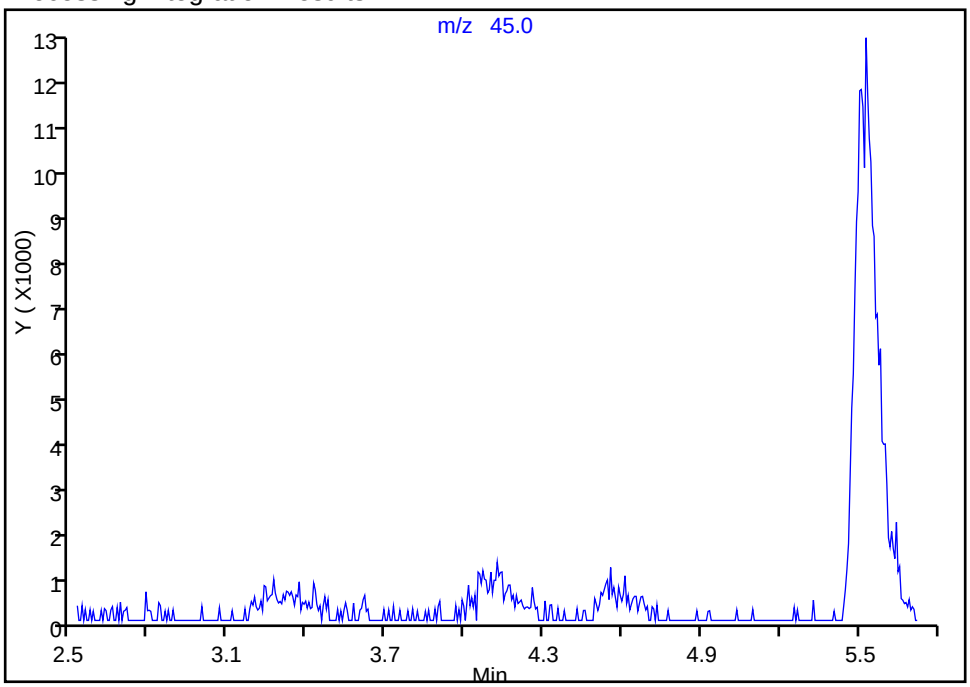
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D				
Injection Date:	20-Oct-2014 13:15:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

18 Ethanol, CAS: 64-17-5

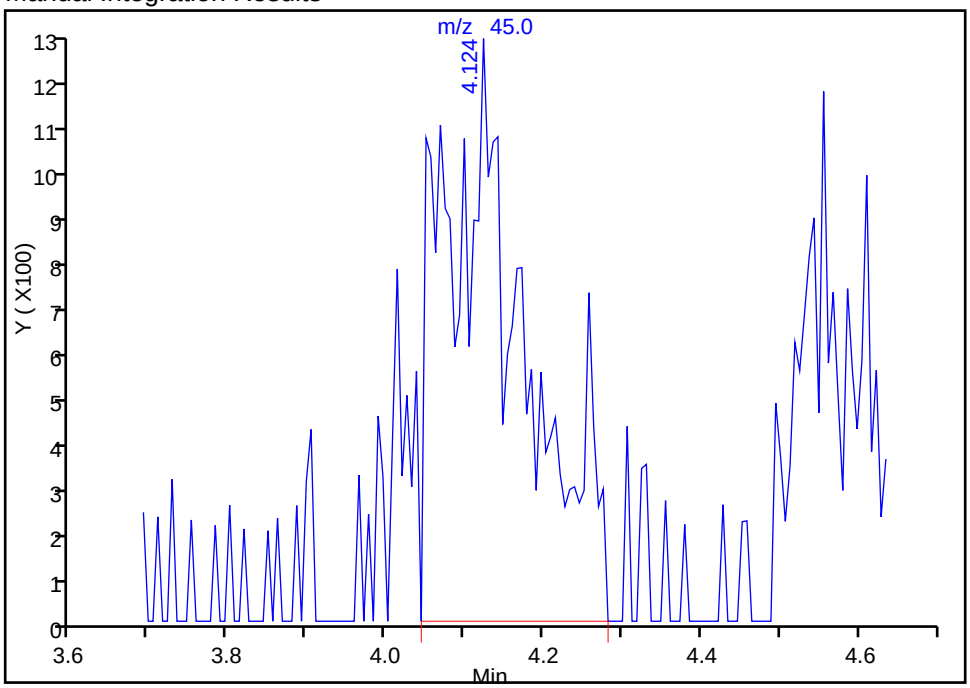
Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results

RT: 4.12
Response: 9093
Amount: 2655.4949



Reviewer: journetp, 20-Oct-2014 14:00:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

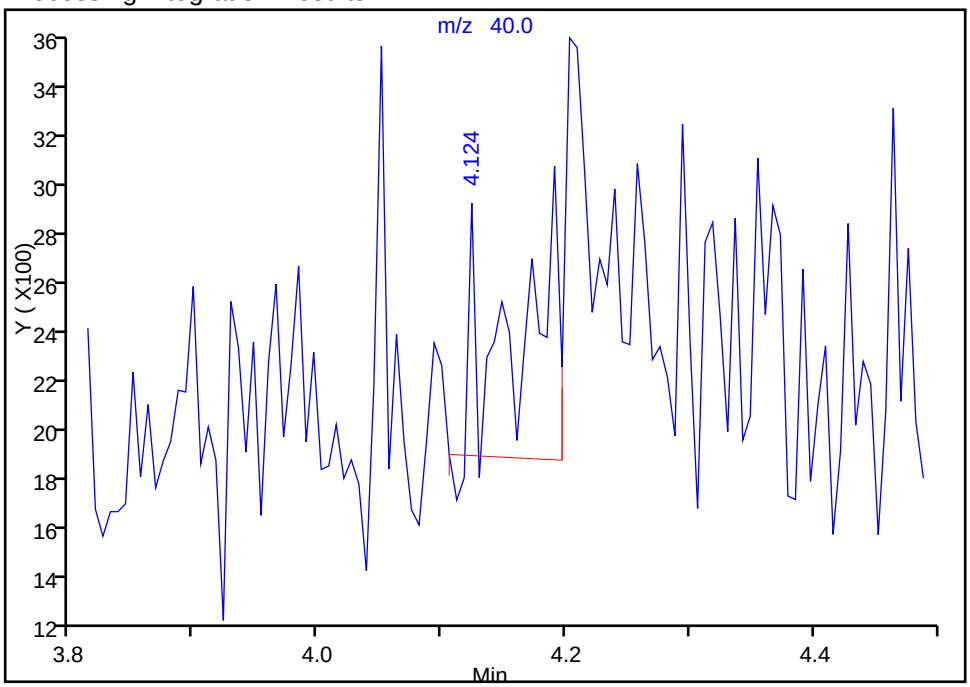
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D
Injection Date: 20-Oct-2014 13:15:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

27 Acetonitrile, CAS: 75-05-8

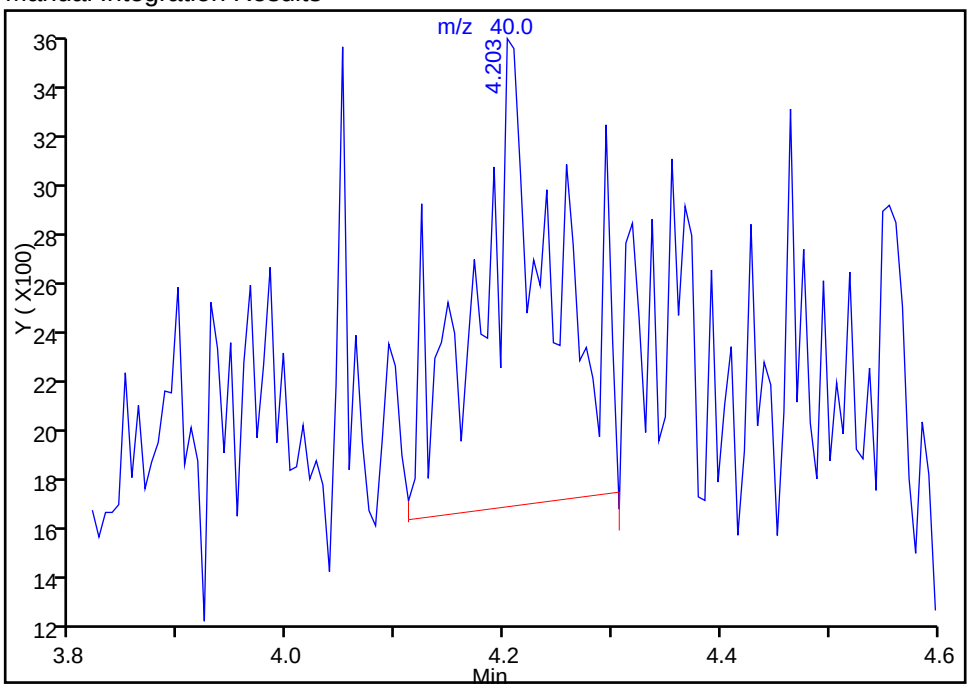
Processing Integration Results

RT: 4.12
Response: 2360
Amount: 107.8289



Manual Integration Results

RT: 4.20
Response: 9516
Amount: 525.1125



Reviewer: journetp, 20-Oct-2014 14:00:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

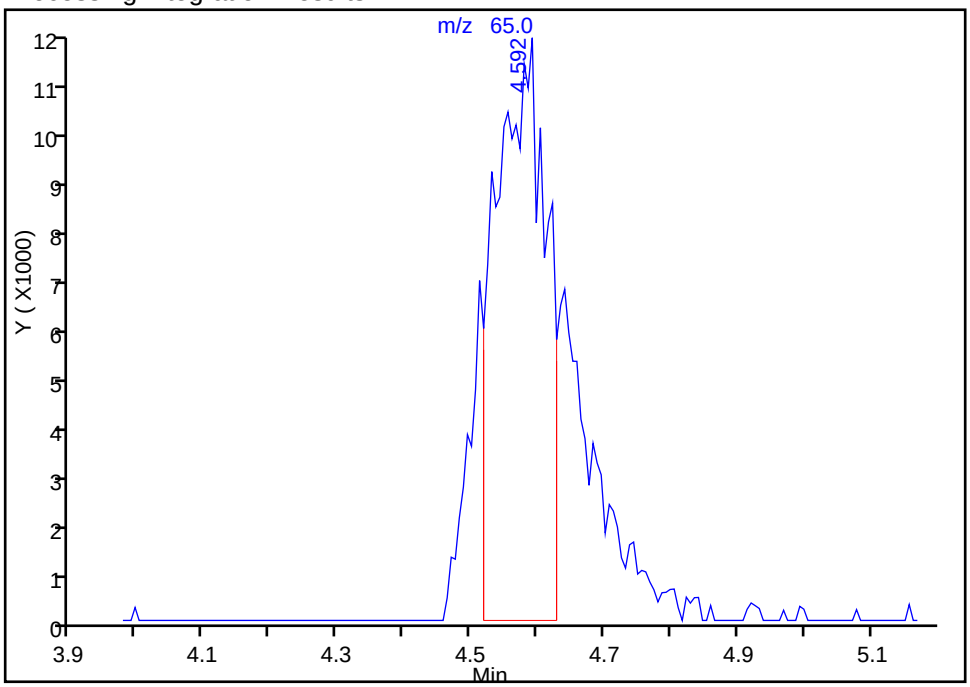
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D
Injection Date: 20-Oct-2014 13:15:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

* 1 TBA-d9 (IS), CAS: 25725-11-5

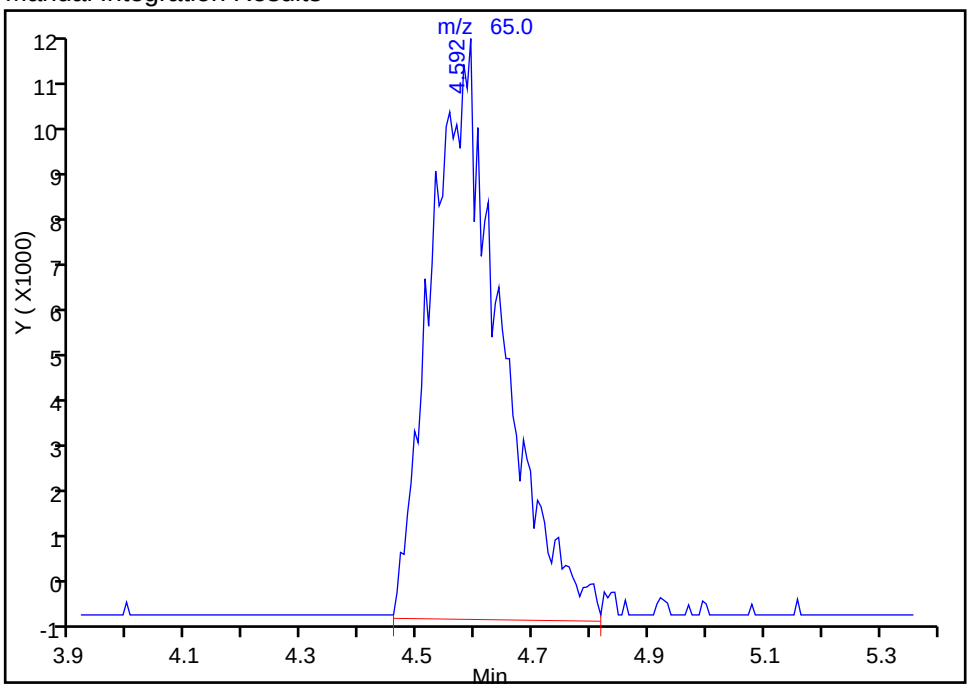
Processing Integration Results

RT: 4.59
Response: 60686
Amount: 5000.0000



Manual Integration Results

RT: 4.59
Response: 97480
Amount: 5000.0000



Reviewer: journetp, 20-Oct-2014 14:00:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

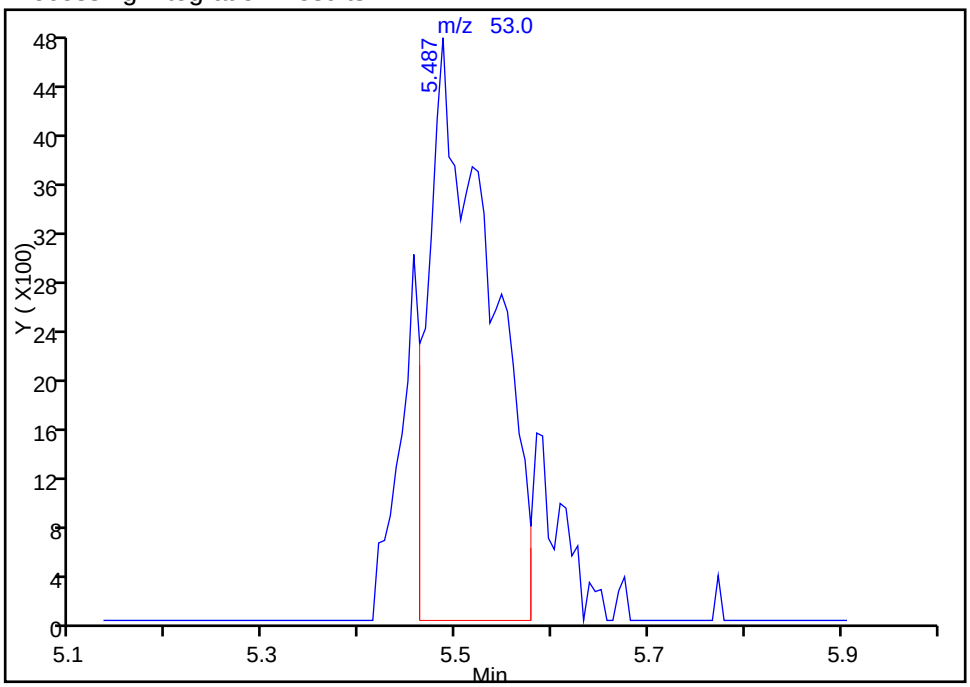
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D
Injection Date: 20-Oct-2014 13:15:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

38 2-Chloro-1,3-butadiene, CAS: 126-99-8

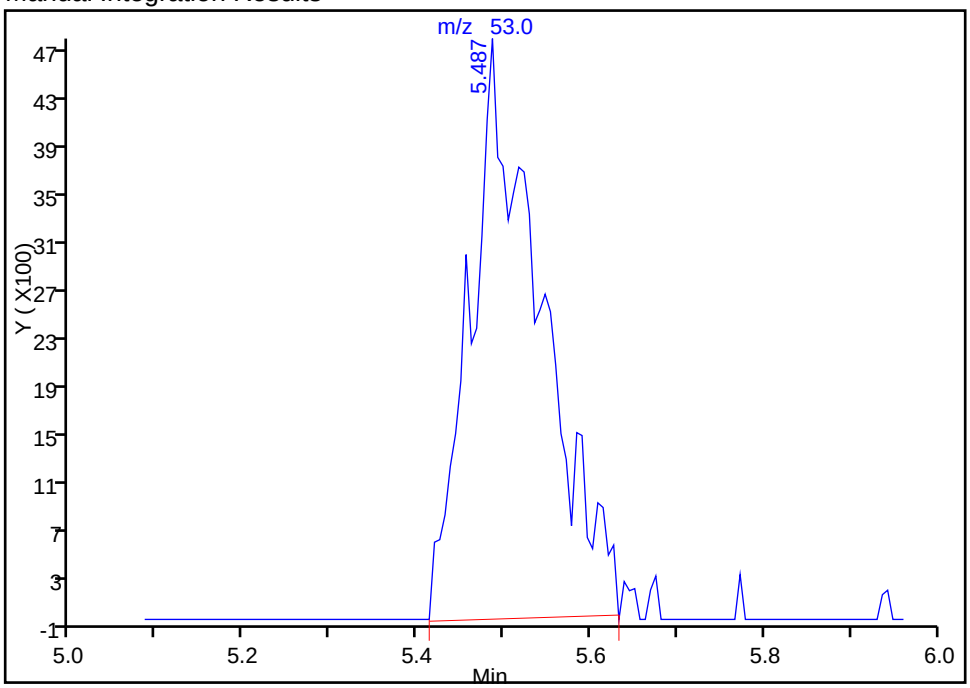
Processing Integration Results

RT: 5.49
Response: 21110
Amount: 41.568937



Manual Integration Results

RT: 5.49
Response: 27277
Amount: 48.834436



Reviewer: journetp, 20-Oct-2014 14:00:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

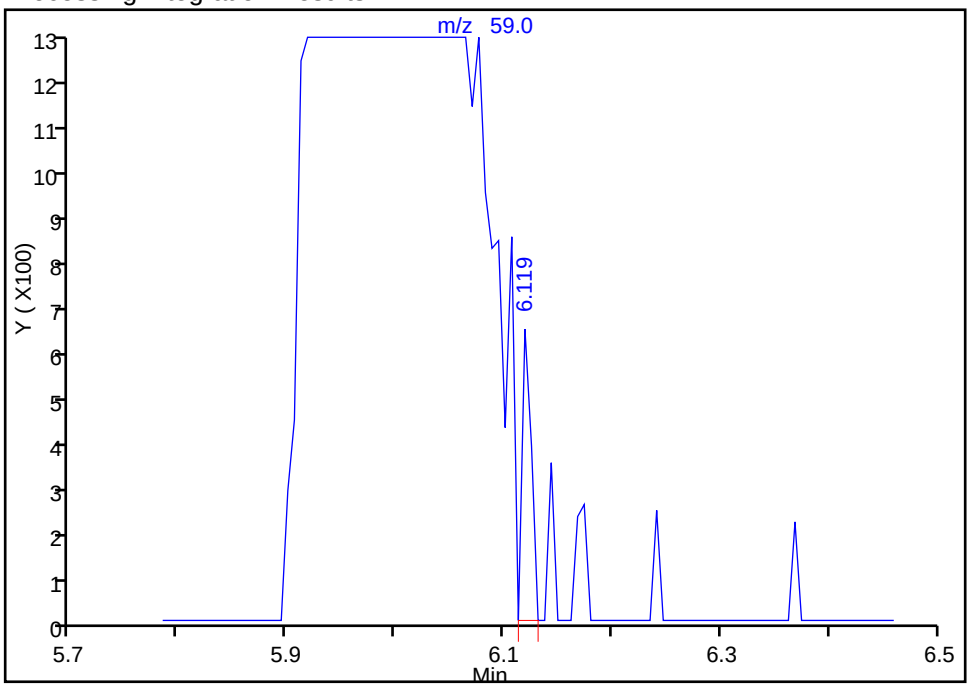
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D
Injection Date: 20-Oct-2014 13:15:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

40 Tert-butyl ethyl ether, CAS: 637-92-3

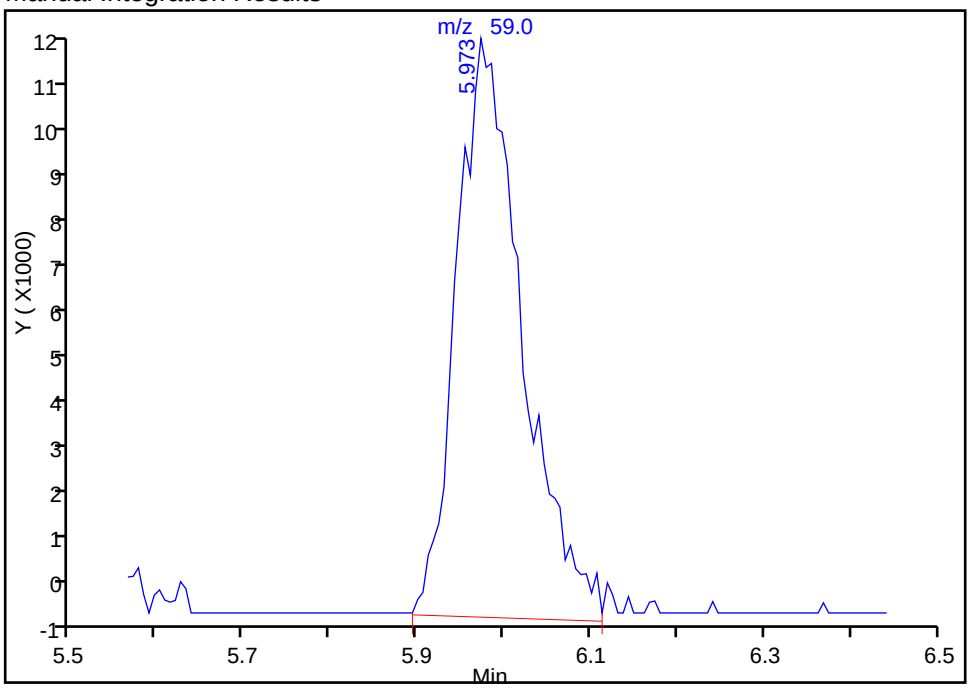
Processing Integration Results

RT: 6.12
Response: 353
Amount: 2.065461



Manual Integration Results

RT: 5.97
Response: 61581
Amount: 55.726295



Reviewer: journetp, 20-Oct-2014 14:00:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

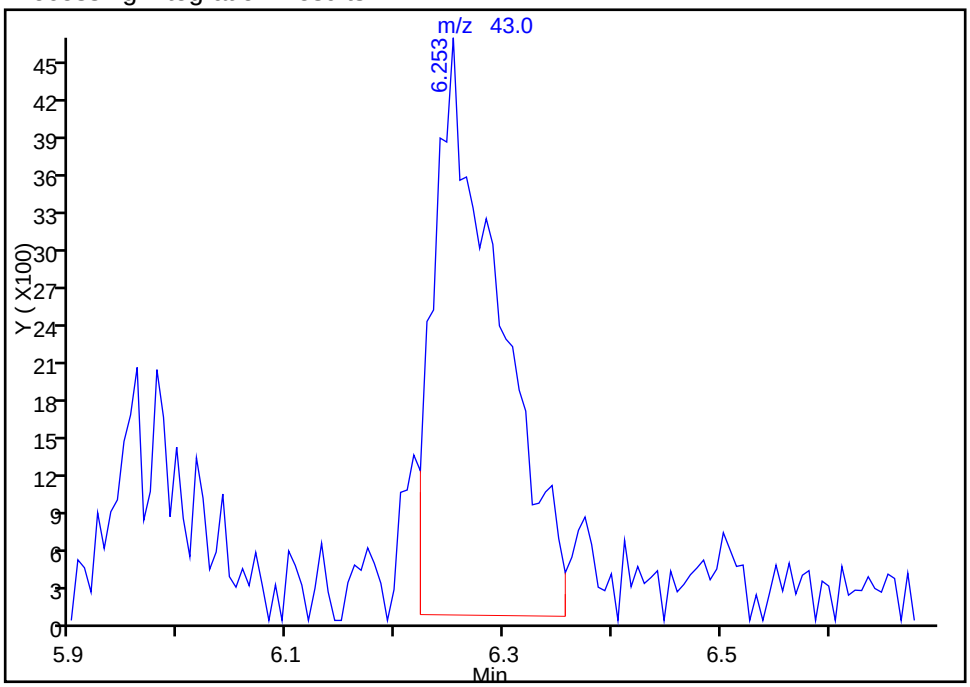
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D
Injection Date: 20-Oct-2014 13:15:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

45 Ethyl acetate, CAS: 141-78-6

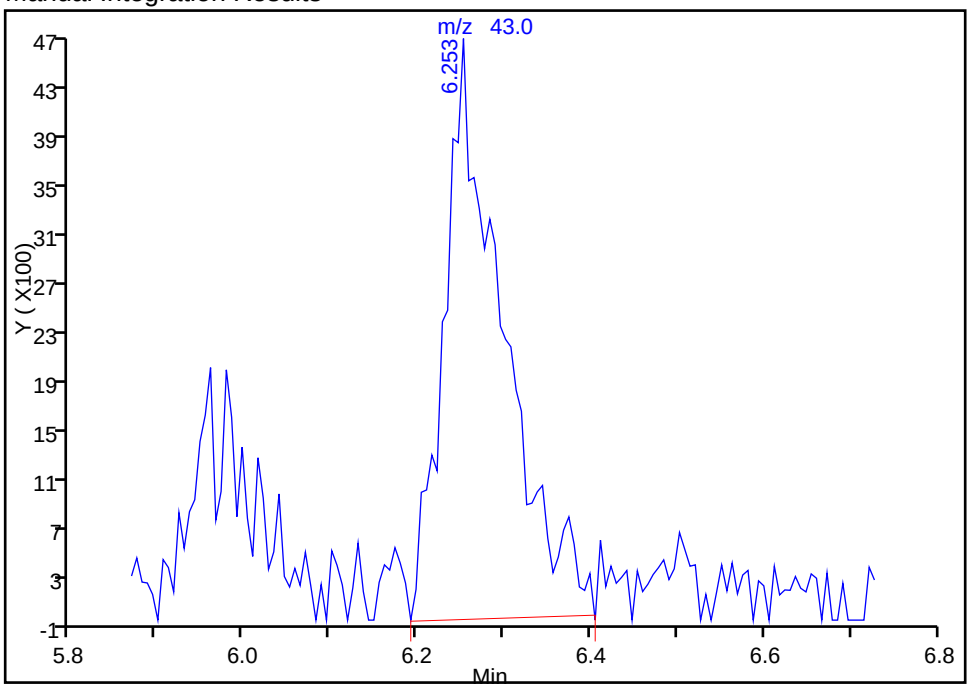
Processing Integration Results

RT: 6.25
Response: 19208
Amount: 79.068009



Manual Integration Results

RT: 6.25
Response: 21973
Amount: 109.1379



Reviewer: journetp, 20-Oct-2014 14:00:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

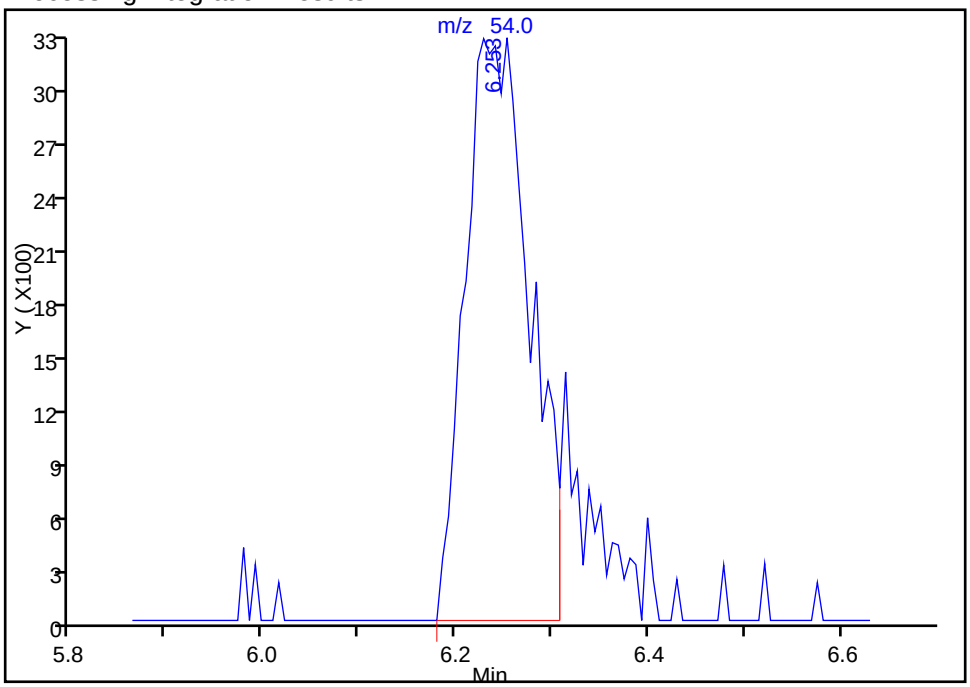
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D
Injection Date: 20-Oct-2014 13:15:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

44 Propionitrile, CAS: 107-12-0

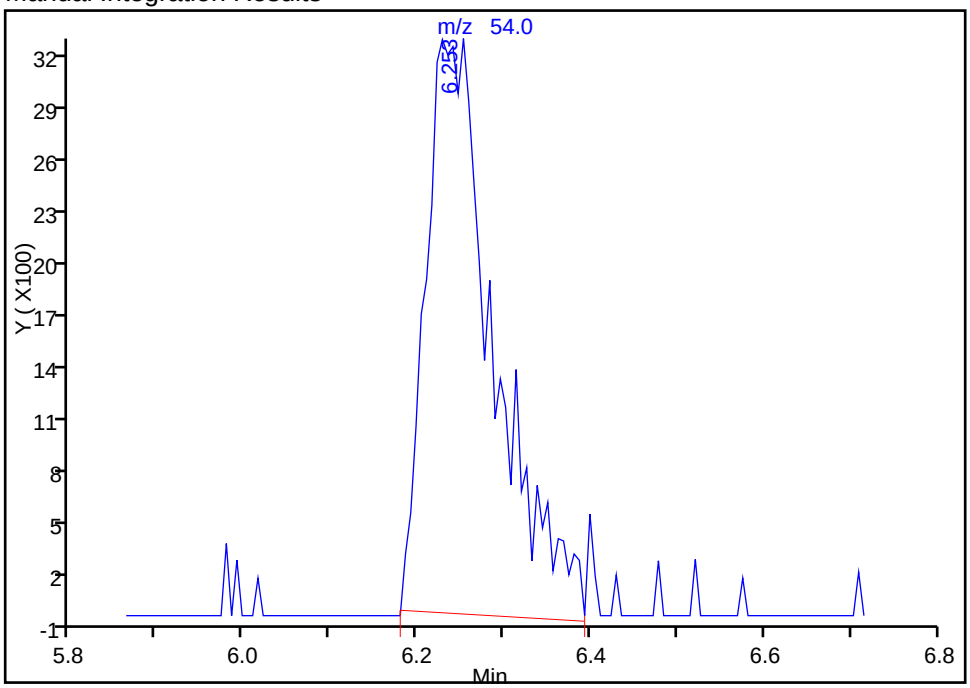
Processing Integration Results

RT: 6.25
Response: 15066
Amount: 464.4684



Manual Integration Results

RT: 6.25
Response: 17627
Amount: 609.2432



Reviewer: journetp, 20-Oct-2014 14:00:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

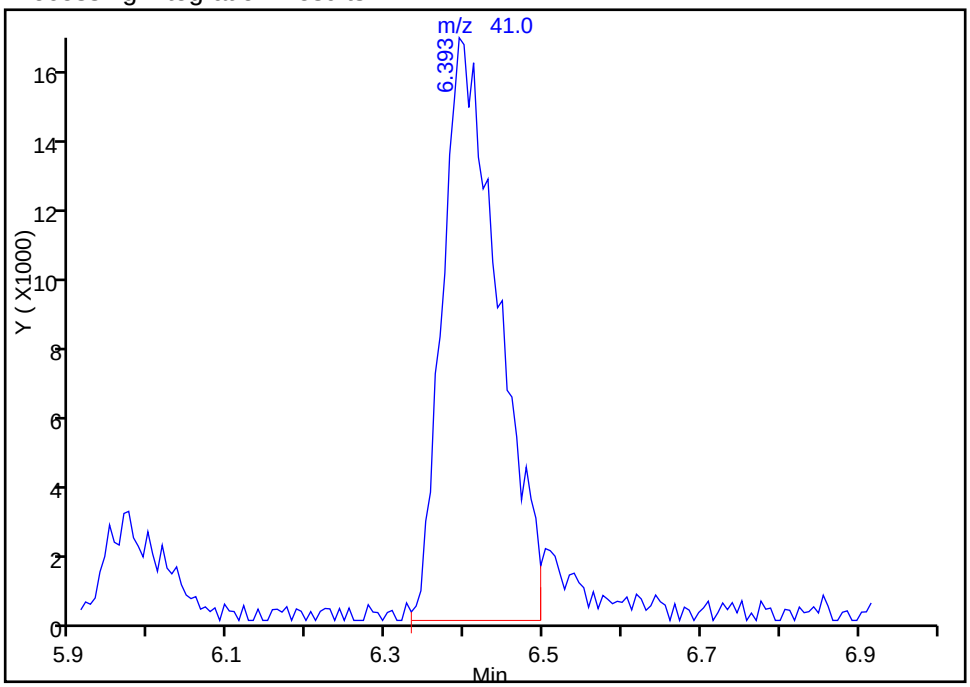
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D
Injection Date: 20-Oct-2014 13:15:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

46 Methacrylonitrile, CAS: 126-98-7

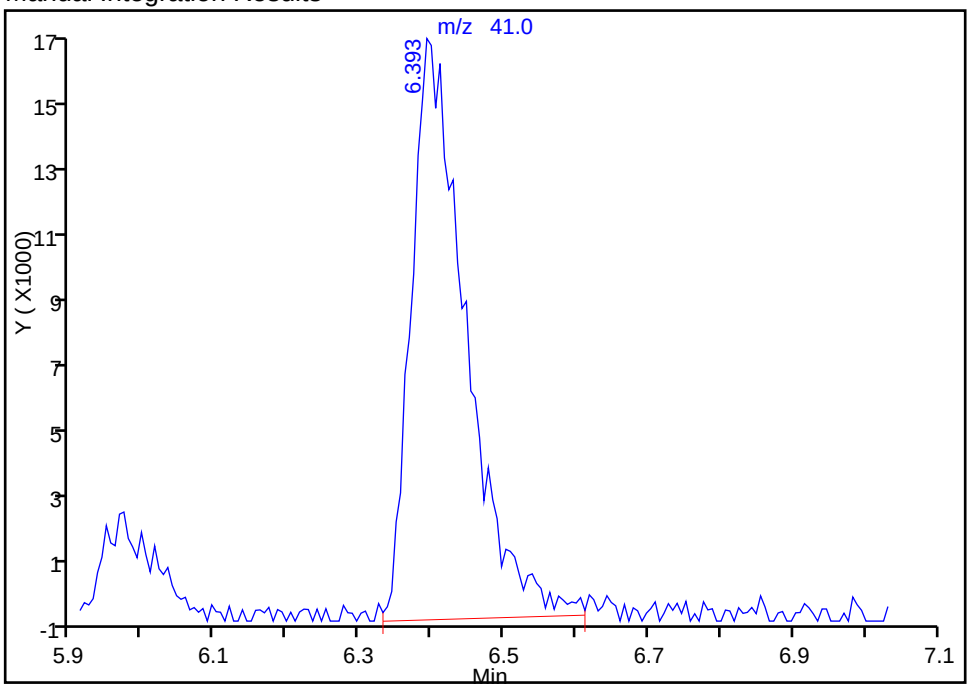
Processing Integration Results

RT: 6.39
Response: 79996
Amount: 533.1911



Manual Integration Results

RT: 6.39
Response: 85052
Amount: 570.3036



Reviewer: journetp, 20-Oct-2014 14:00:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

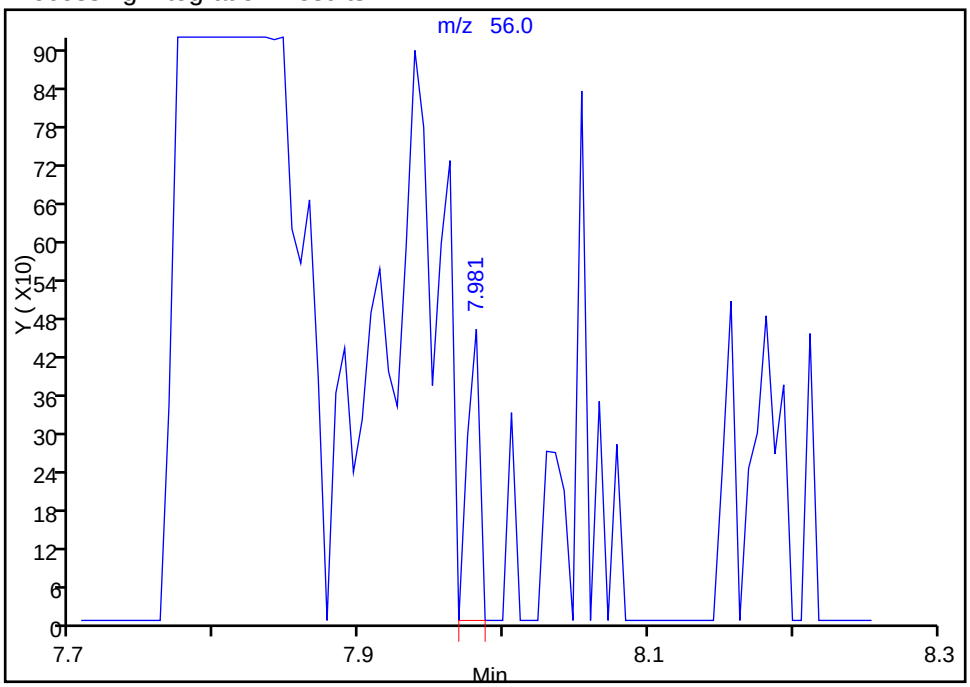
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D
Injection Date: 20-Oct-2014 13:15:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

60 n-Butanol, CAS: 71-36-3

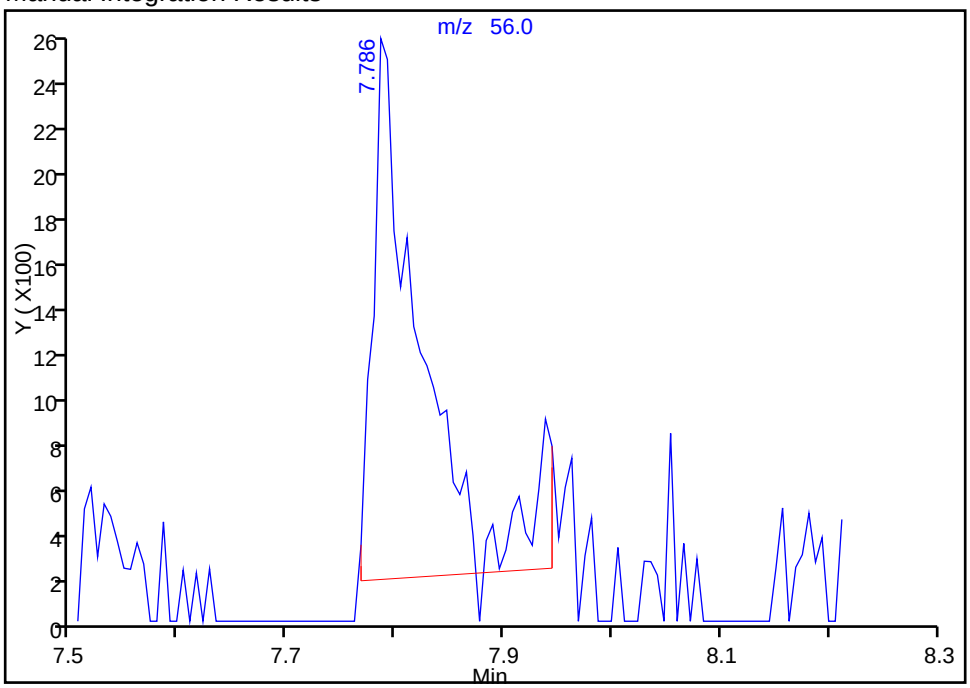
Processing Integration Results

RT: 7.98
Response: 274
Amount: 58.798080



Manual Integration Results

RT: 7.79
Response: 7556
Amount: 1549.7553



Reviewer: journetp, 20-Oct-2014 14:00:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

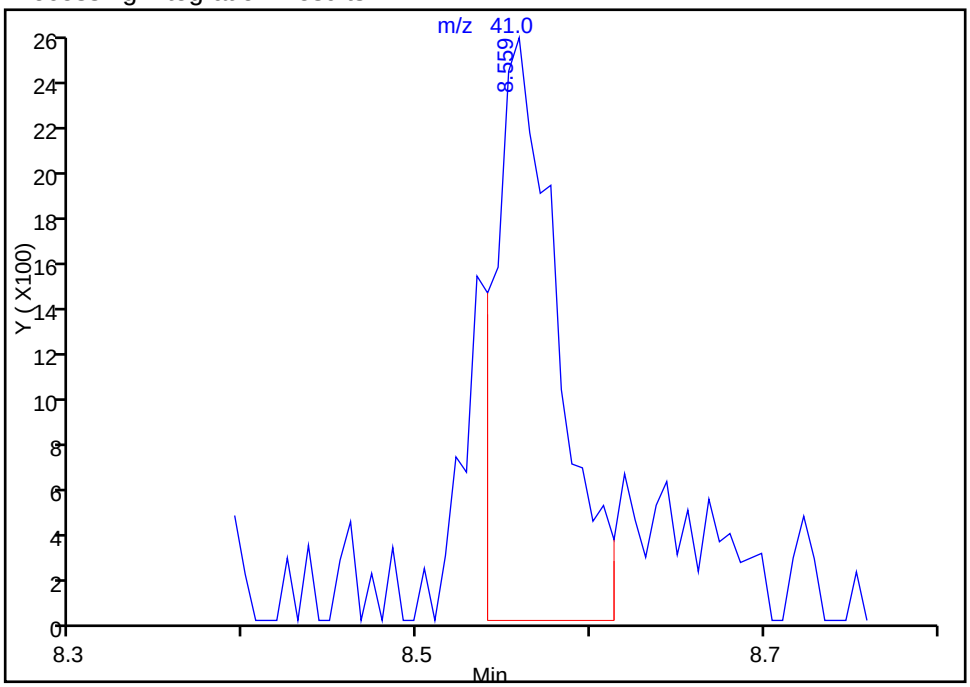
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D				
Injection Date:	20-Oct-2014 13:15:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

69 2-Nitropropane, CAS: 79-46-9

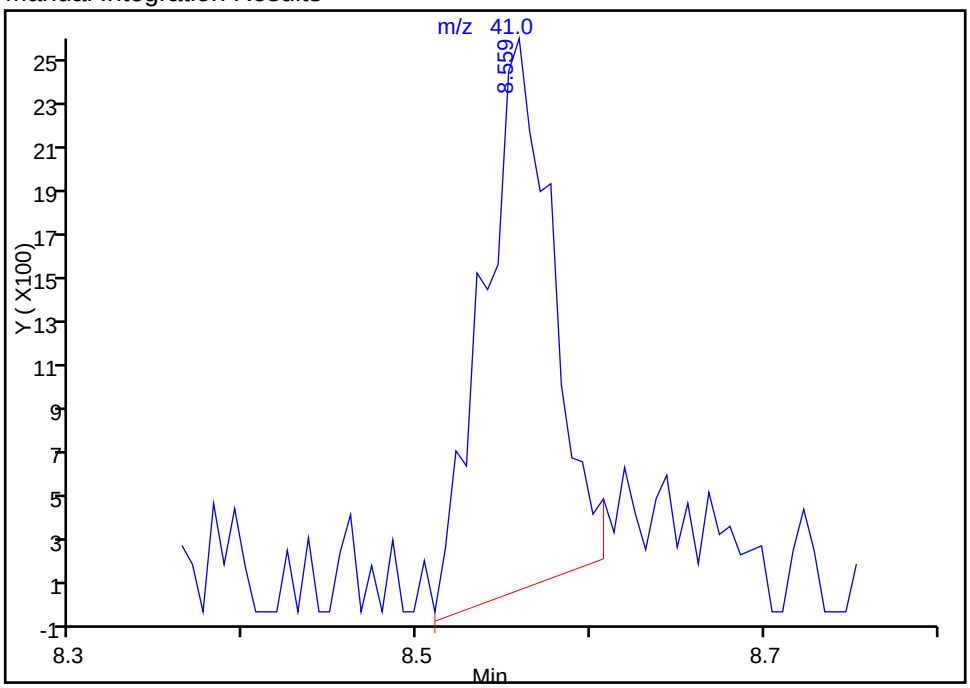
Processing Integration Results

RT: 8.56
Response: 6398
Amount: 104.1589



Manual Integration Results

RT: 8.56
Response: 6820
Amount: 107.4658



Reviewer: journetp, 20-Oct-2014 14:00:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

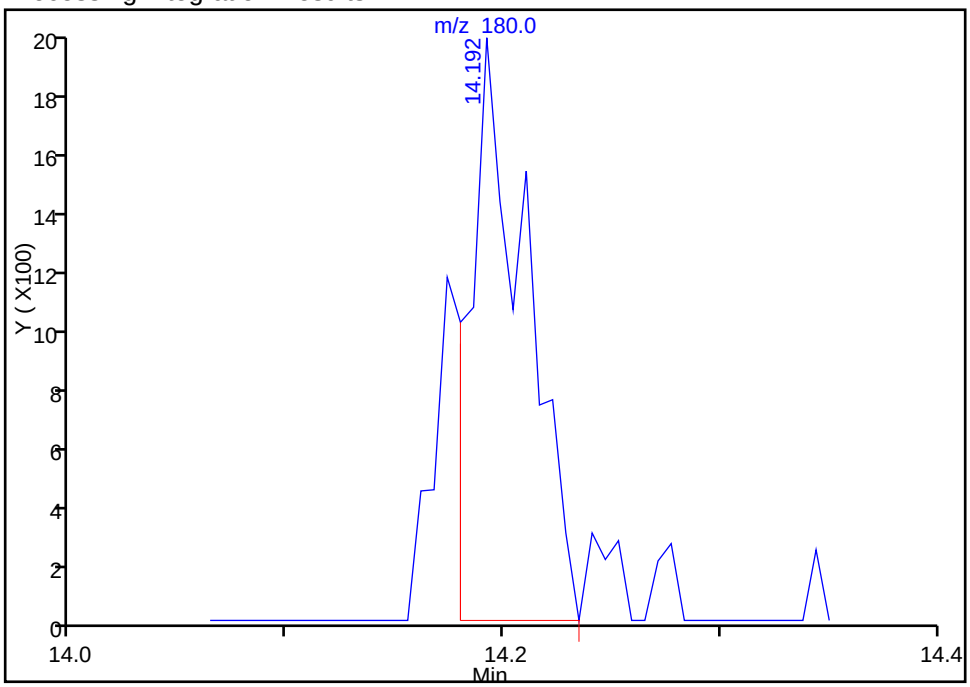
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102004.D
Injection Date: 20-Oct-2014 13:15:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

113 1,3,5-Trichlorobenzene, CAS: 108-70-3

Processing Integration Results

RT: 14.19
Response: 3593
Amount: 30.883463



Manual Integration Results

RT: 14.19
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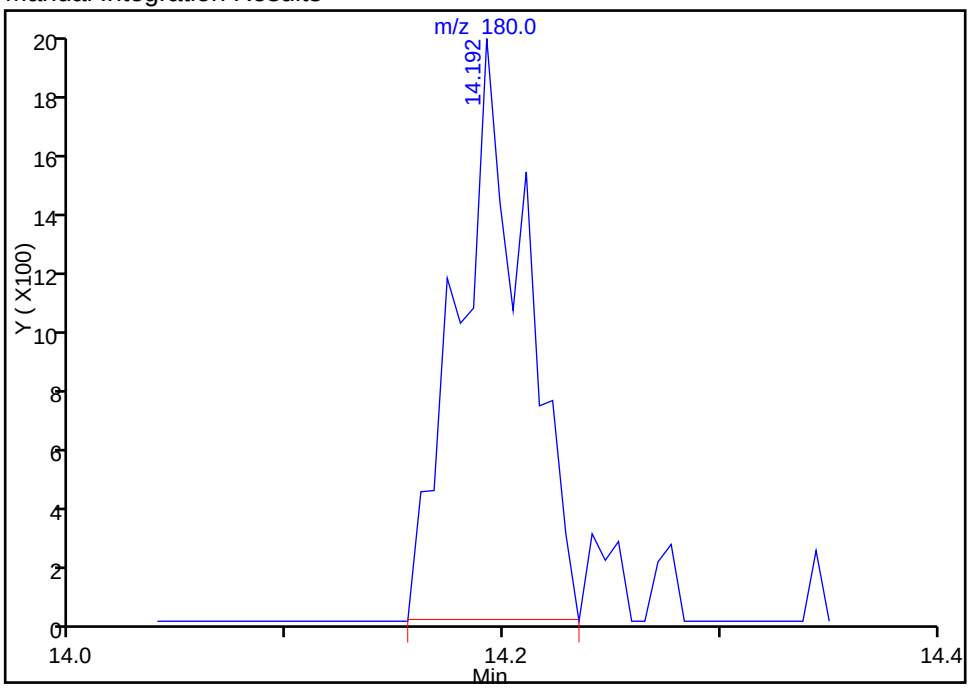


Reviewer: journetp, 20-Oct-2014 14:01:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Oct-2014 13:42:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0003900-005
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub3

Method: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 22-Oct-2014 13:30:05 Calib Date: 20-Oct-2014 14:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102007.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.577	4.592	-0.015	98	79969	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.412	7.415	-0.003	98	209136	250.0	250.0	
* 3 Dioxane-d8 (IS)	96	8.124	8.200	-0.076	3	5799	5000.0	5000.0	M
* 4 Chlorobenzene-d5	119	10.466	10.463	0.003	94	44558	250.0	250.0	
* 5 1,4-Dichlorobenzene-d4	152	12.790	12.787	0.003	97	57802	250.0	250.0	
18 Ethanol	45	4.115	4.124	-0.009	36	20313	6250.0	6929.0	M
27 Acetonitrile	40	4.236	4.233	0.003	94	28084	1250.0	1381.5	
38 2-Chloro-1,3-butadiene	53	5.502	5.505	-0.003	92	76847	125.0	122.6	
39 Isopropyl ether	45	5.520	5.529	-0.009	41	200451	125.0	126.9	M
26 Isopropyl alcohol	45	5.520	5.529	-0.009	94	185847	1250.0	1182.3	
40 Tert-butyl ethyl ether	59	5.976	5.973	0.003	98	142000	125.0	114.6	
44 Propionitrile	54	6.232	6.253	-0.021	98	40169	1250.0	1237.6	M
45 Ethyl acetate	43	6.256	6.265	-0.009	91	41560	250.0	228.0	
46 Methacrylonitrile	41	6.396	6.405	-0.009	96	204452	1250.0	1222.1	
57 Isooctane	57	7.211	7.220	-0.009	98	225972	NC	NC	
58 Tert-amyl methyl ether	73	7.254	7.257	-0.003	97	111254	125.0	113.4	
60 n-Butanol	56	7.789	7.786	0.003	65	16046	3125.0	2933.8	M
62 Ethyl acrylate	55	7.947	7.932	0.015	98	36807	125.0	130.6	
66 Methyl methacrylate	69	8.166	8.170	-0.003	93	34492	250.0	240.0	
69 2-Nitropropane	41	8.556	8.559	-0.003	64	16067	250.0	249.6	
70 2-Chloroethyl vinyl ether	63	8.635	8.644	-0.009	89	28631	250.0	228.5	
80 n-Butyl acetate	43	9.888	9.885	0.003	97	41983	125.0	127.1	
92 Cyclohexanone	55	11.573	11.576	-0.003	59	7609	2500.0	3076.5	M
102 Pentachloroethane	167	12.413	12.410	0.003	94	23089	125.0	132.0	
108 1,2,3-Trimethylbenzene	105	12.857	12.860	-0.003	98	107361	125.0	125.6	
109 Benzyl chloride	91	12.948	12.945	0.003	99	37338	125.0	126.4	
113 1,3,5-Trichlorobenzene	180	14.183	14.180	0.003	95	11074	125.0	104.3	
118 2-Methylnaphthalene	142	16.580	16.504	0.076	1	90	125.0	171.5	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

voaWap9 Pr Re_00001	Amount Added:	5.00	Units: uL
VOA2CEVEPRI_00008	Amount Added:	5.00	Units: uL
VOA8260INT_00021	Amount Added:	10.00	Units: uL

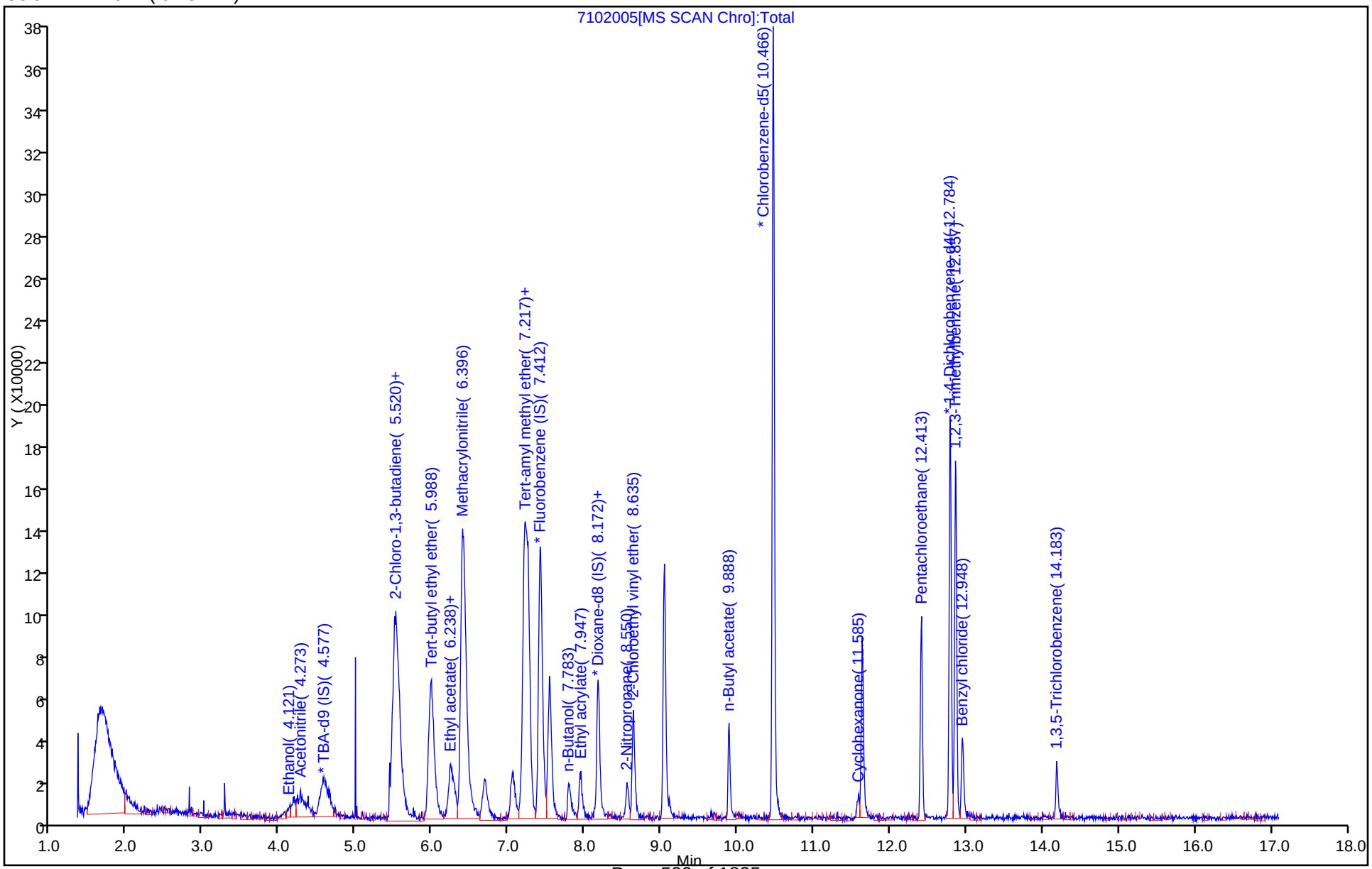
Report Date: 22-Oct-2014 13:30:06 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102005.D

Injection Date:	20-Oct-2014 13:42:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

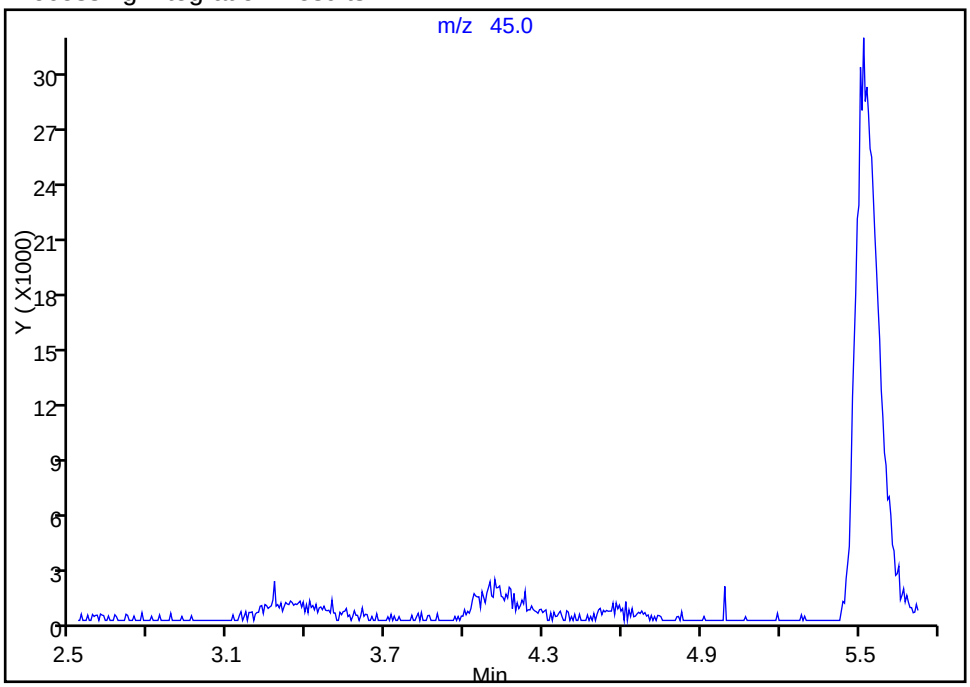
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102005.D				
Injection Date:	20-Oct-2014 13:42:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

18 Ethanol, CAS: 64-17-5

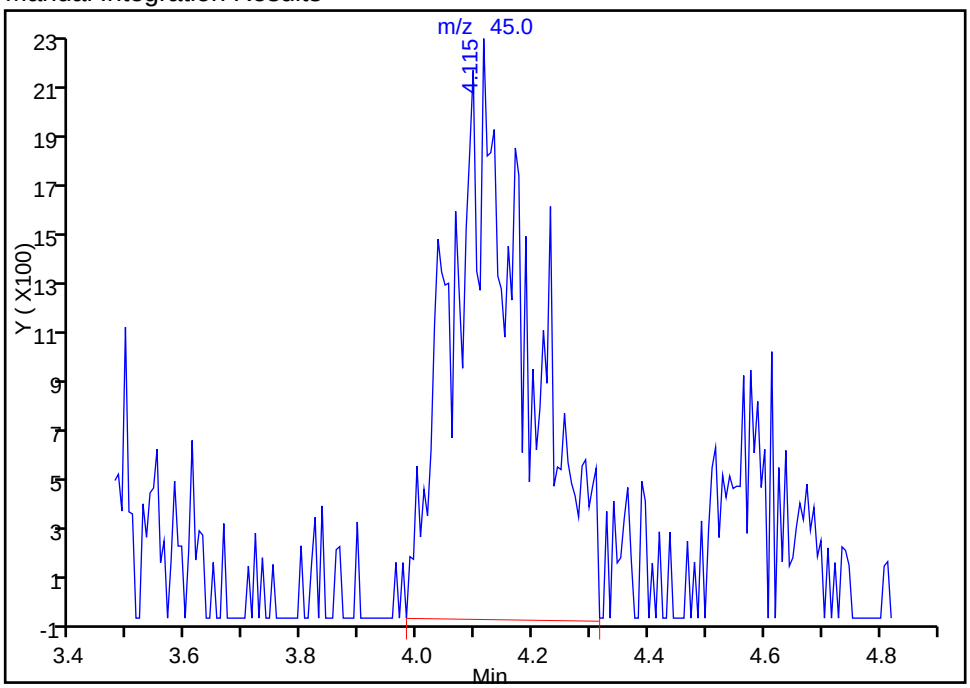
Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results

RT: 4.11
Response: 20313
Amount: 6929.0385



Reviewer: journetp, 20-Oct-2014 14:23:40
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

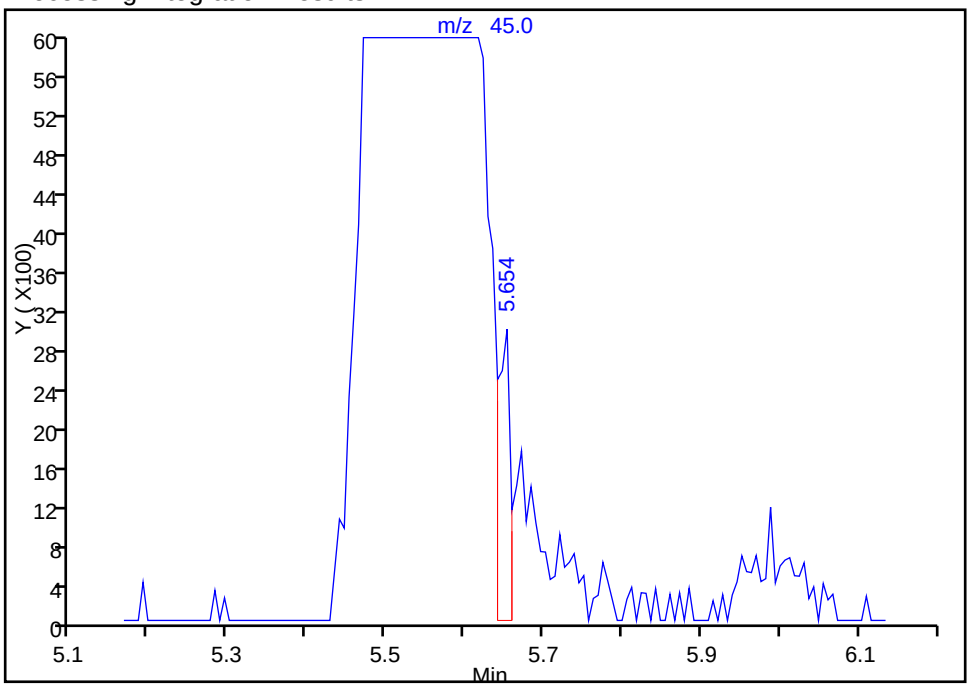
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102005.D
Injection Date: 20-Oct-2014 13:42:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

39 Isopropyl ether, CAS: 108-20-3

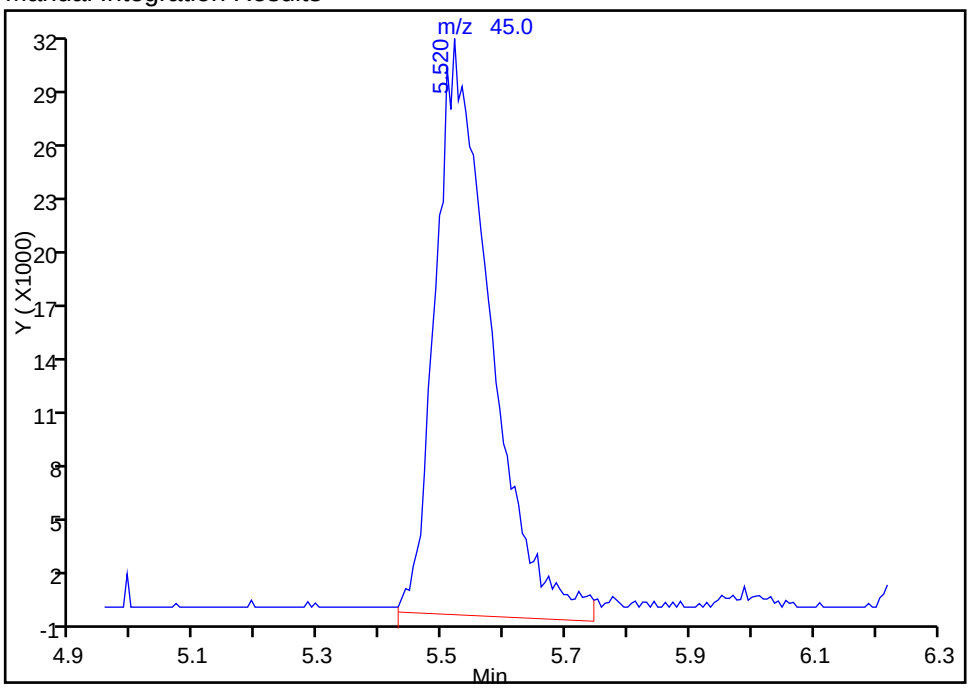
Processing Integration Results

RT: 5.65
Response: 3327
Amount: 2.773312



Manual Integration Results

RT: 5.52
Response: 200451
Amount: 126.9145



Reviewer: journetp, 20-Oct-2014 14:23:40
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

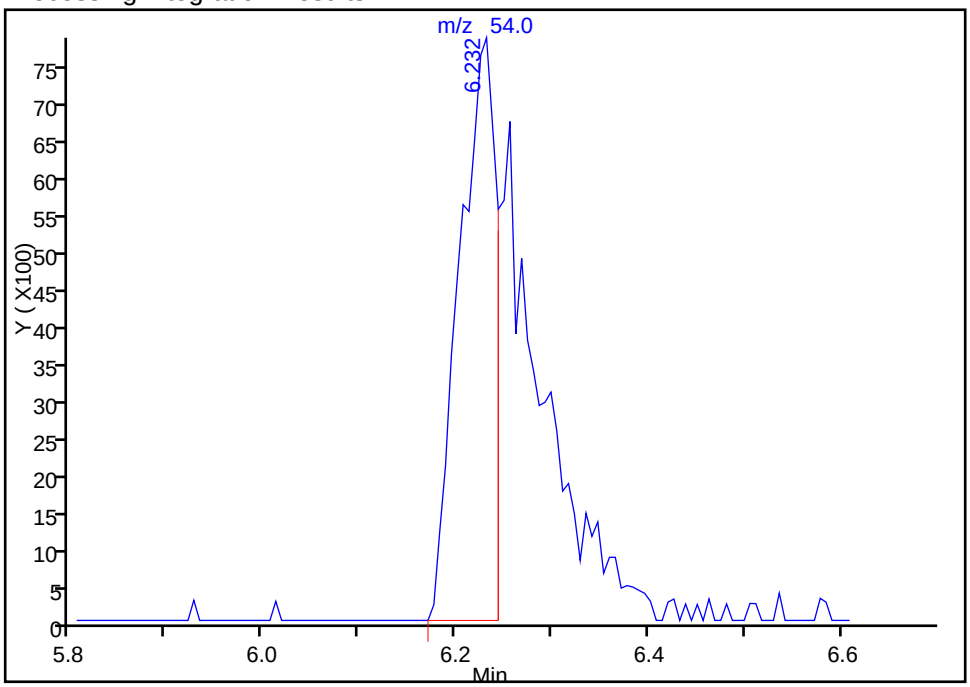
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102005.D
Injection Date: 20-Oct-2014 13:42:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

44 Propionitrile, CAS: 107-12-0

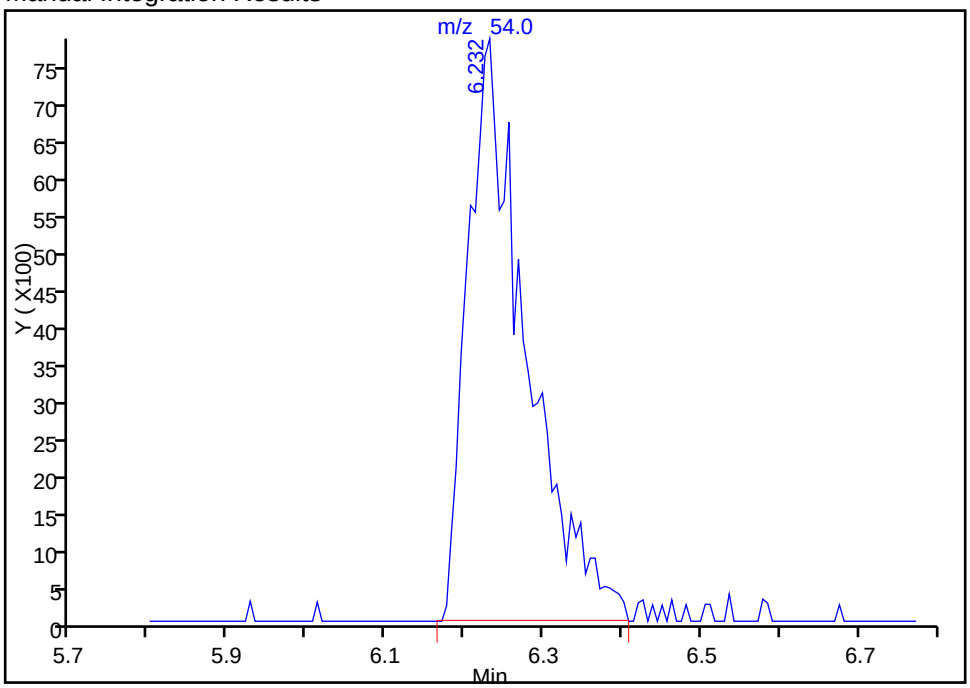
Processing Integration Results

RT: 6.23
Response: 20684
Amount: 634.7662



Manual Integration Results

RT: 6.23
Response: 40169
Amount: 1237.6484



Reviewer: journetp, 20-Oct-2014 14:23:40
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

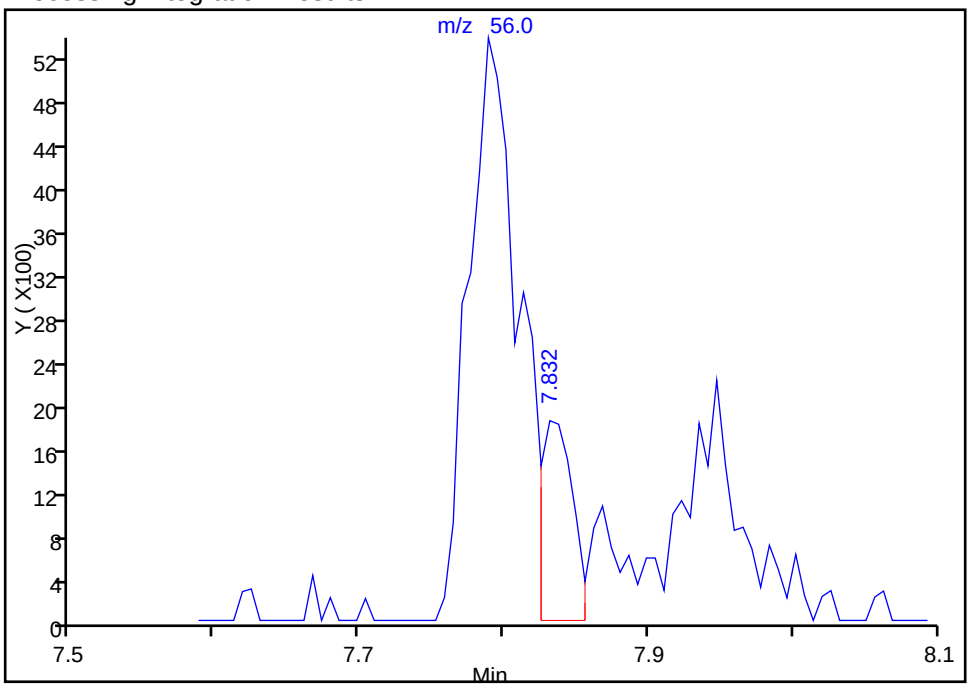
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102005.D				
Injection Date:	20-Oct-2014 13:42:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

60 n-Butanol, CAS: 71-36-3

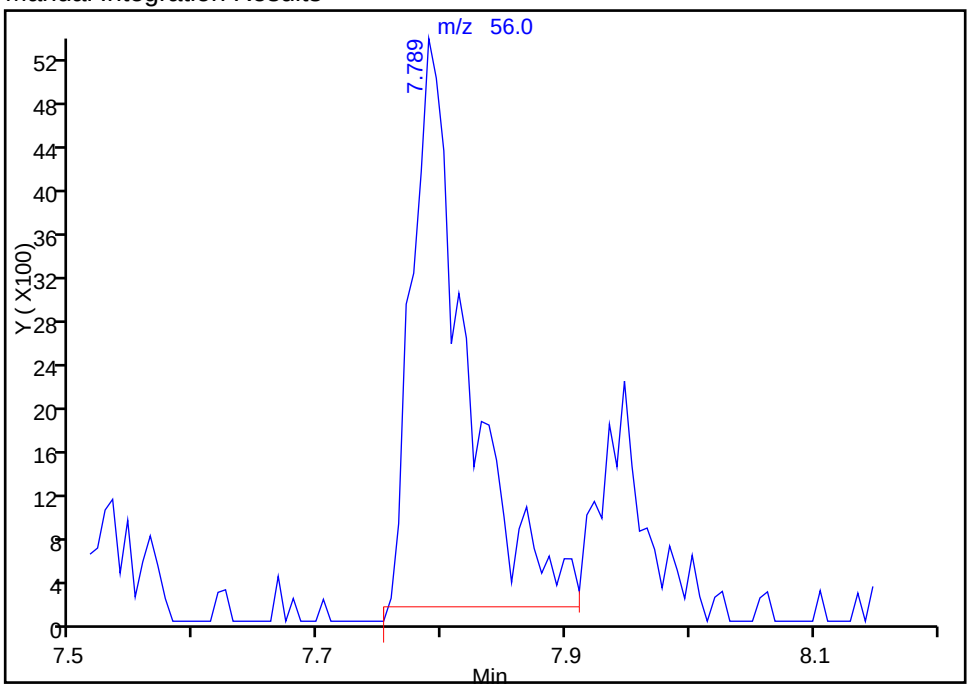
Processing Integration Results

RT: 7.83
Response: 2875
Amount: 531.2010



Manual Integration Results

RT: 7.79
Response: 16046
Amount: 2933.8099



Reviewer: journetp, 20-Oct-2014 14:23:40
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

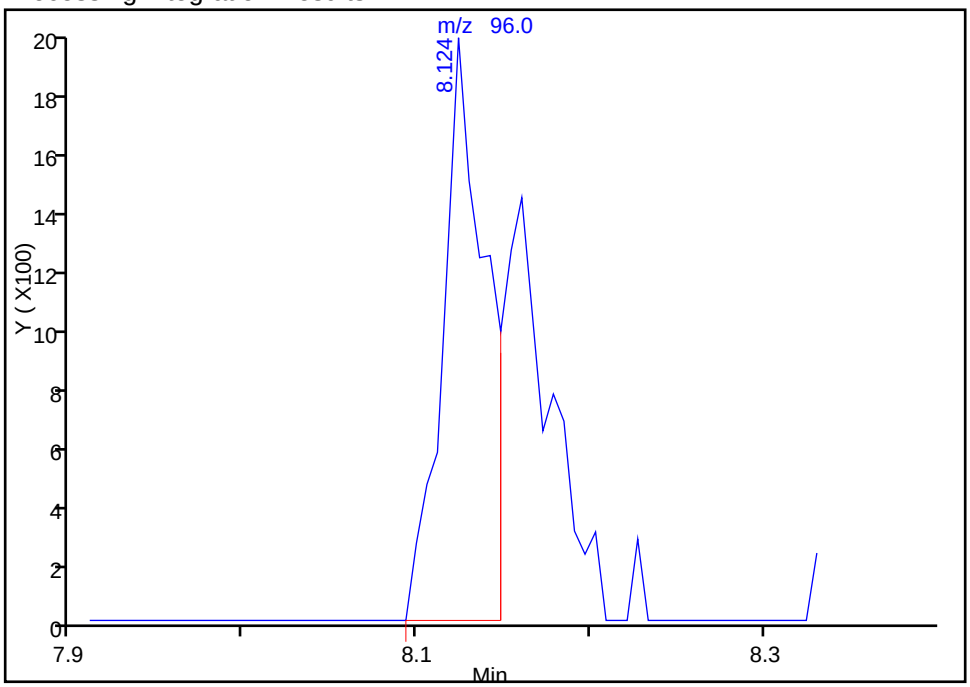
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102005.D				
Injection Date:	20-Oct-2014 13:42:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 3 Dioxane-d8 (IS), CAS: 17647-74-4

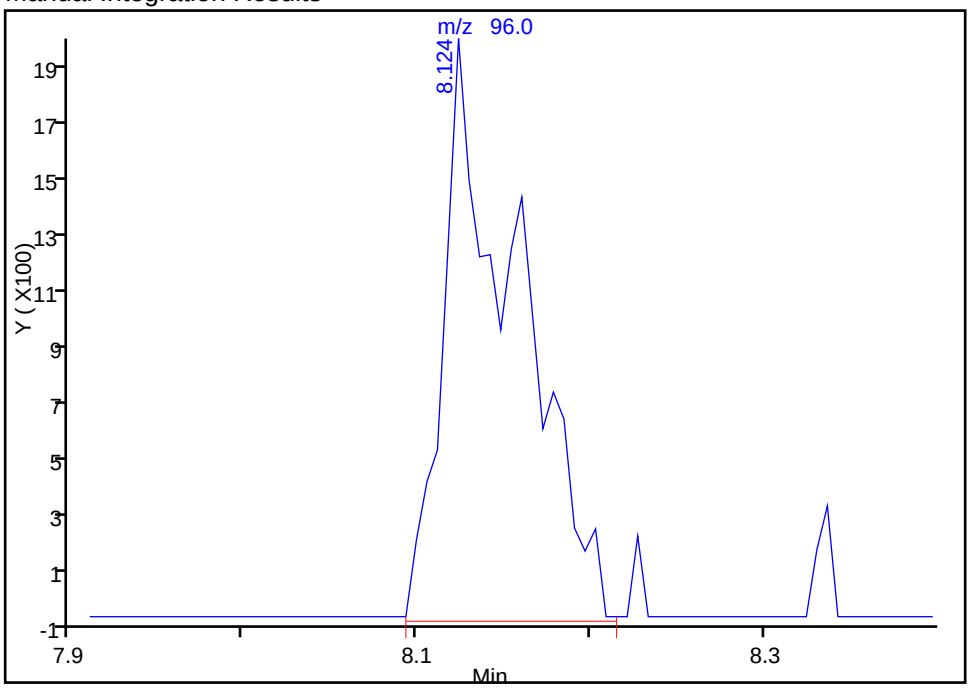
Processing Integration Results

RT: 8.12
Response: 3340
Amount: 5000.0000



Manual Integration Results

RT: 8.12
Response: 5799
Amount: 5000.0000



Reviewer: journetp, 22-Oct-2014 13:30:05
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

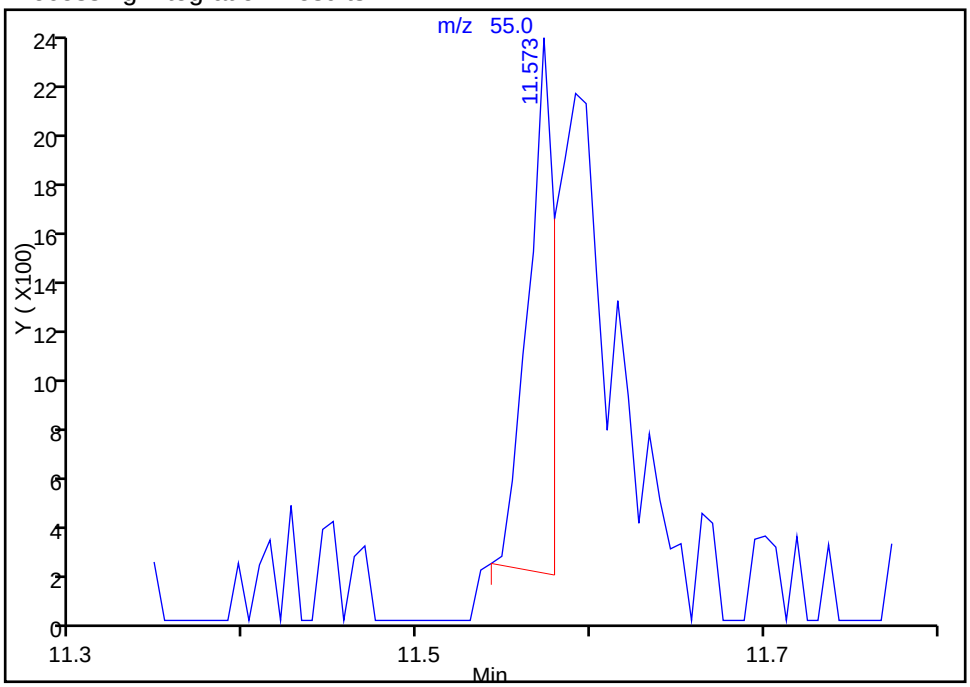
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102005.D
Injection Date: 20-Oct-2014 13:42:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

92 Cyclohexanone, CAS: 108-94-1

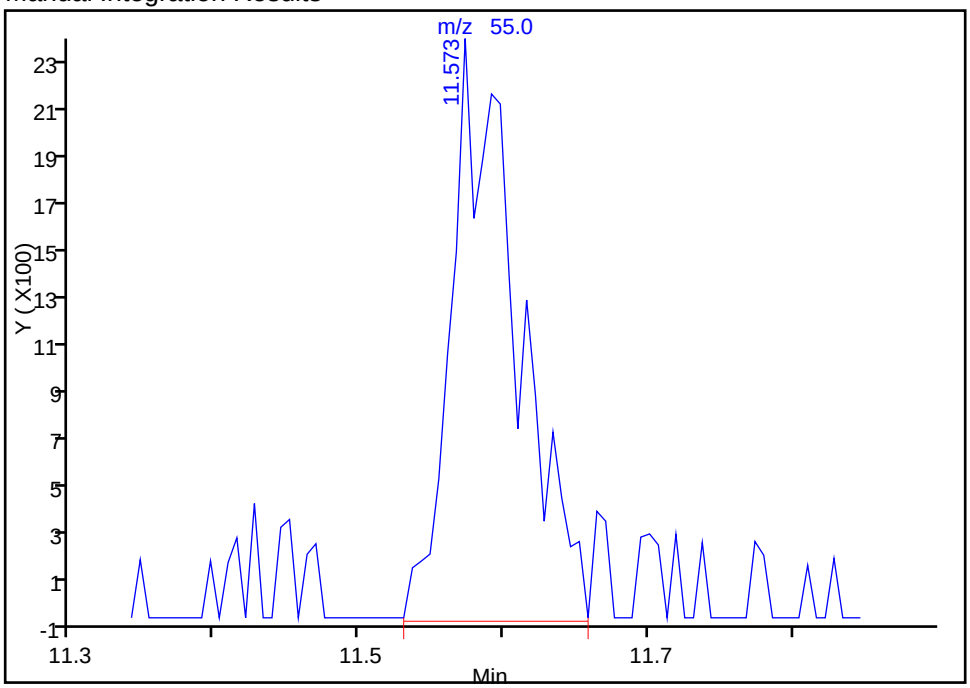
Processing Integration Results

RT: 11.57
Response: 2251
Amount: 452.5103



Manual Integration Results

RT: 11.57
Response: 7609
Amount: 3076.4911



Reviewer: journetp, 20-Oct-2014 14:23:40
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Oct-2014 14:12:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 180-0003900-006
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub3

Method: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 22-Oct-2014 13:30:10 Calib Date: 20-Oct-2014 14:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102007.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.592	4.592	0.000	95	84461	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.415	7.415	0.000	98	202791	250.0	250.0	
* 4 Chlorobenzene-d5	119	10.463	10.463	0.000	91	46924	250.0	250.0	
* 5 1,4-Dichlorobenzene-d4	152	12.787	12.787	0.000	96	62240	250.0	250.0	
18 Ethanol	45	4.124	4.124	0.000	56	30253	10000	9699.0	M
27 Acetonitrile	40	4.233	4.233	0.000	77	41062	2000.0	2083.1	M
38 2-Chloro-1,3-butadiene	53	5.505	5.505	0.000	82	115517	200.0	190.1	
39 Isopropyl ether	45	5.529	5.529	0.000	96	274054	200.0	178.9	
26 Isopropyl alcohol	45	5.529	5.529	0.000	92	275985	2000.0	1810.6	
40 Tert-butyl ethyl ether	59	5.973	5.973	0.000	97	224849	200.0	187.1	
44 Propionitrile	54	6.253	6.253	0.000	99	58291	2000.0	1852.2	
45 Ethyl acetate	43	6.265	6.265	0.000	98	65569	400.0	411.2	
46 Methacrylonitrile	41	6.405	6.405	0.000	96	287088	2000.0	1769.7	
57 Isooctane	57	7.220	7.220	0.000	97	328589	NC	NC	
58 Tert-amyl methyl ether	73	7.257	7.257	0.000	97	166017	200.0	174.5	
60 n-Butanol	56	7.786	7.786	0.000	54	24179	5000.0	4559.1	M
62 Ethyl acrylate	55	7.932	7.932	0.000	98	49087	200.0	165.4	
66 Methyl methacrylate	69	8.170	8.170	0.000	94	52872	400.0	379.4	
69 2-Nitropropane	41	8.559	8.559	0.000	95	22741	400.0	335.4	
70 2-Chloroethyl vinyl ether	63	8.644	8.644	0.000	89	46031	400.0	378.8	
80 n-Butyl acetate	43	9.885	9.885	0.000	97	63949	200.0	193.5	
92 Cyclohexanone	55	11.576	11.576	0.000	92	12257	4000.0	4705.9	
102 Pentachloroethane	167	12.410	12.410	0.000	91	33184	200.0	176.2	
108 1,2,3-Trimethylbenzene	105	12.860	12.860	0.000	99	160223	200.0	174.1	
109 Benzyl chloride	91	12.945	12.945	0.000	100	61810	200.0	194.3	
113 1,3,5-Trichlorobenzene	180	14.180	14.180	0.000	95	24454	200.0	213.9	
118 2-Methylnaphthalene	142	16.504	16.504	0.000	1	71	200.0	125.6	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

voaWap9 Pr Re_00001	Amount Added:	8.00	Units: uL
VOA8260INT_00021	Amount Added:	10.00	Units: uL
VOA2CEVEPRI_00008	Amount Added:	8.00	Units: uL

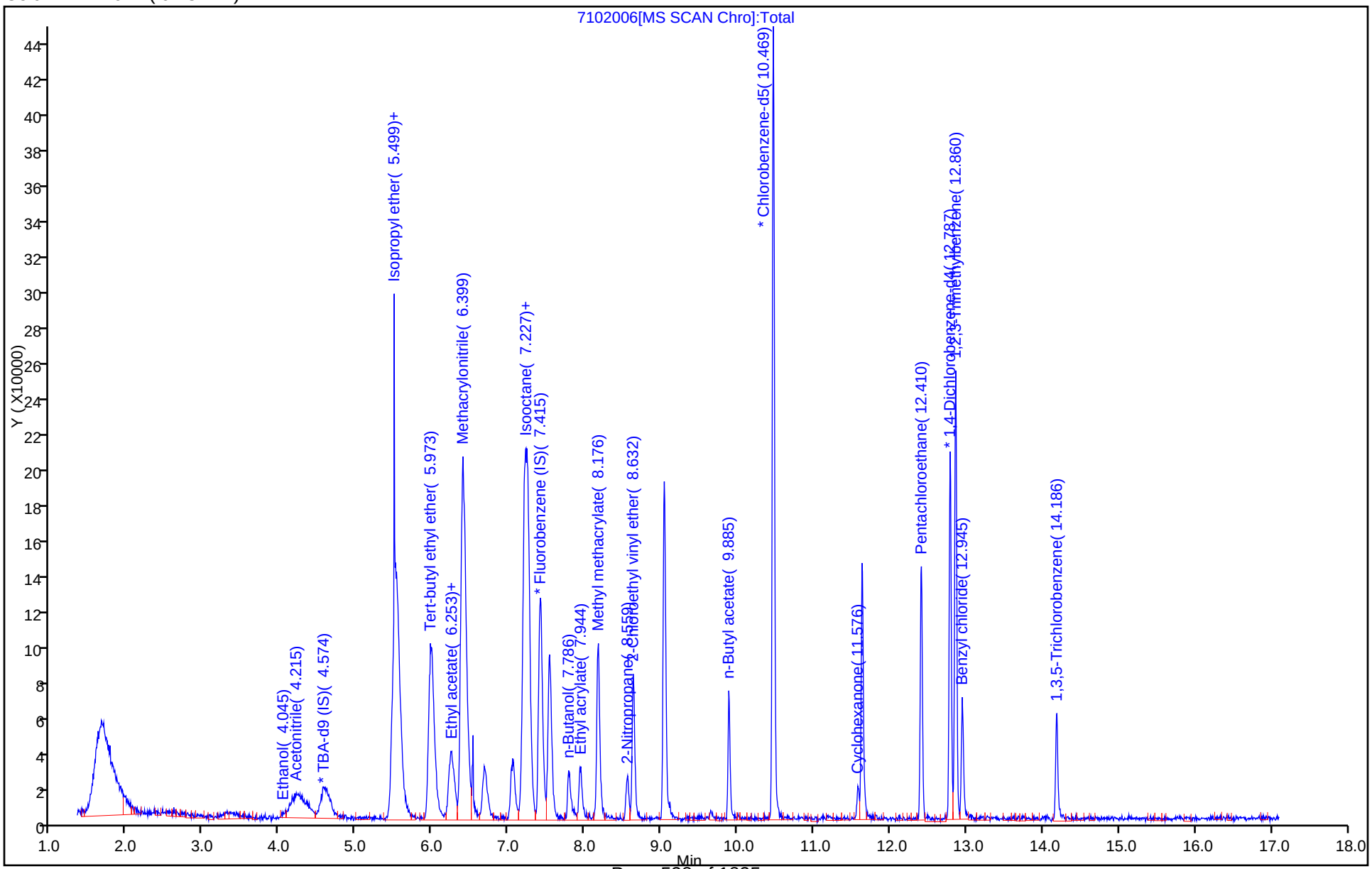
Report Date: 22-Oct-2014 13:30:11 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102006.D

Injection Date:	20-Oct-2014 14:12:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

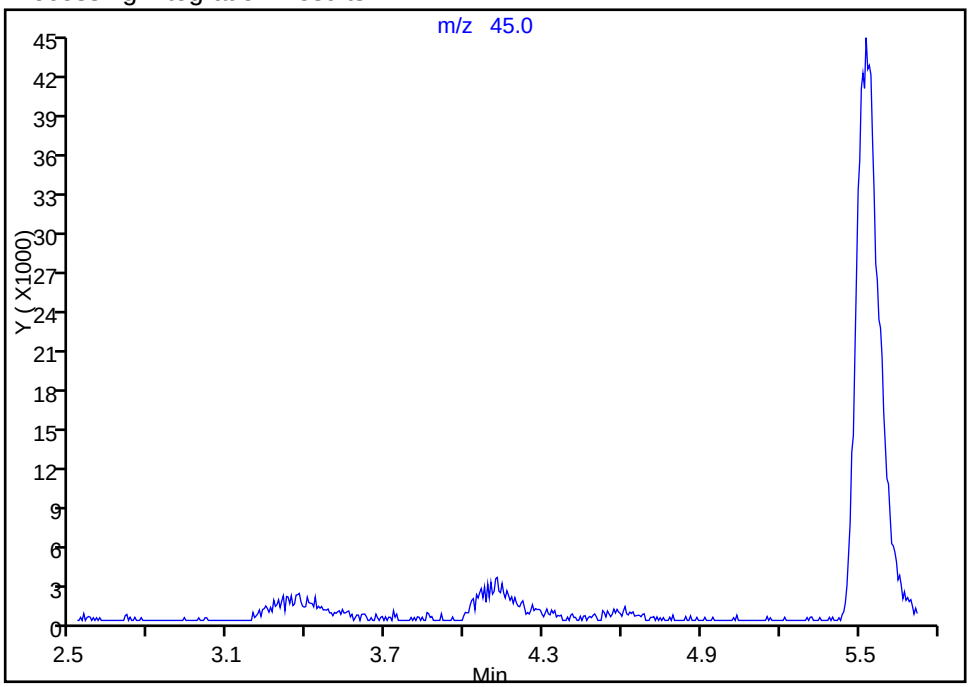
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102006.D				
Injection Date:	20-Oct-2014 14:12:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

18 Ethanol, CAS: 64-17-5

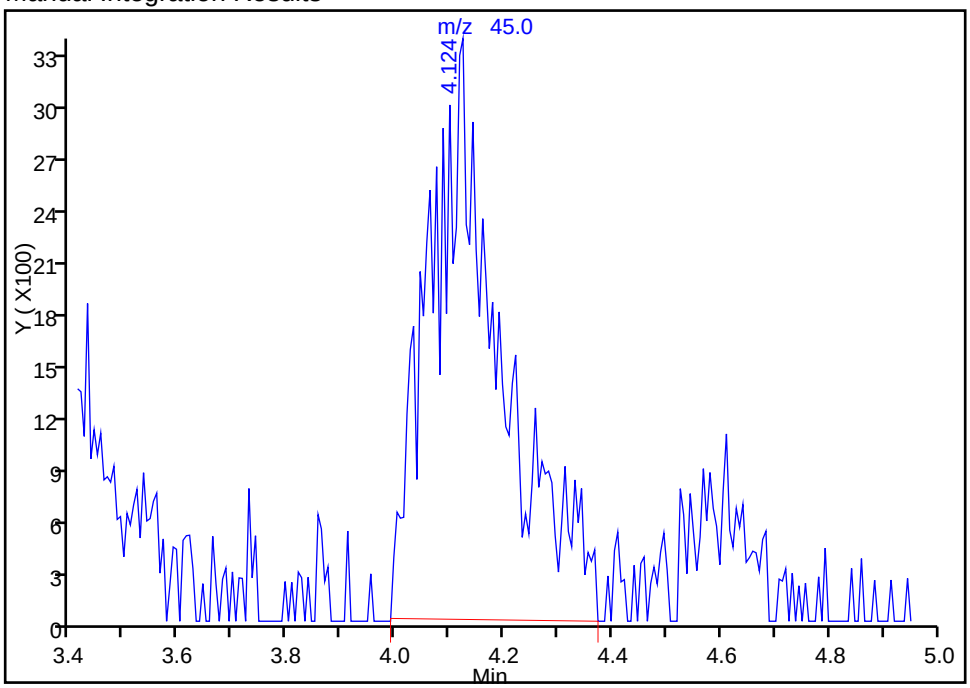
Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results

RT: 4.12
Response: 30253
Amount: 9698.9556



Reviewer: journetp, 20-Oct-2014 15:15:14
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

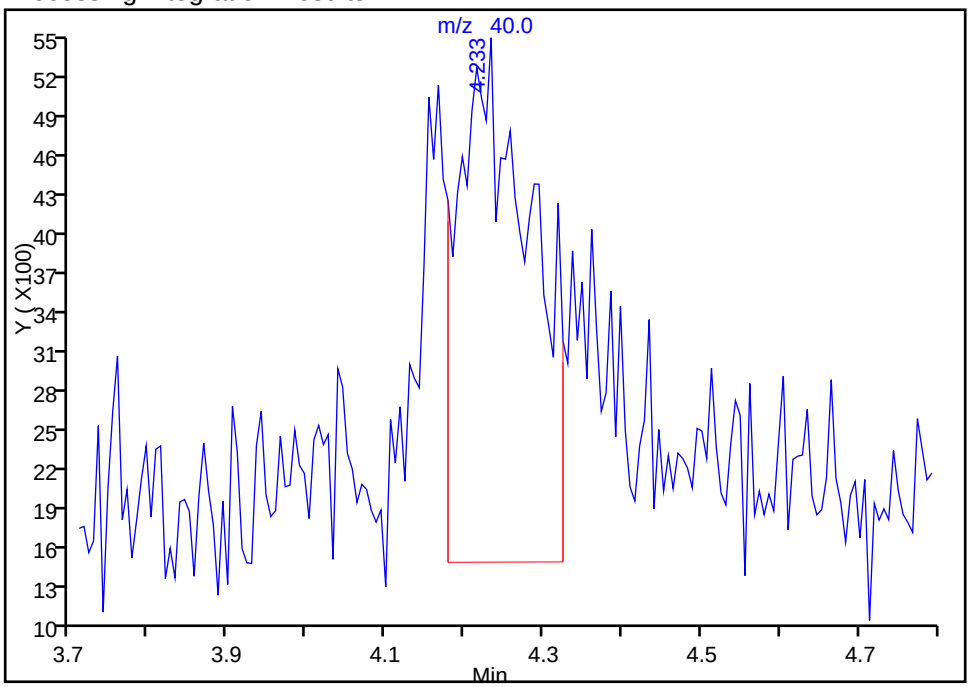
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102006.D
Injection Date: 20-Oct-2014 14:12:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

27 Acetonitrile, CAS: 75-05-8

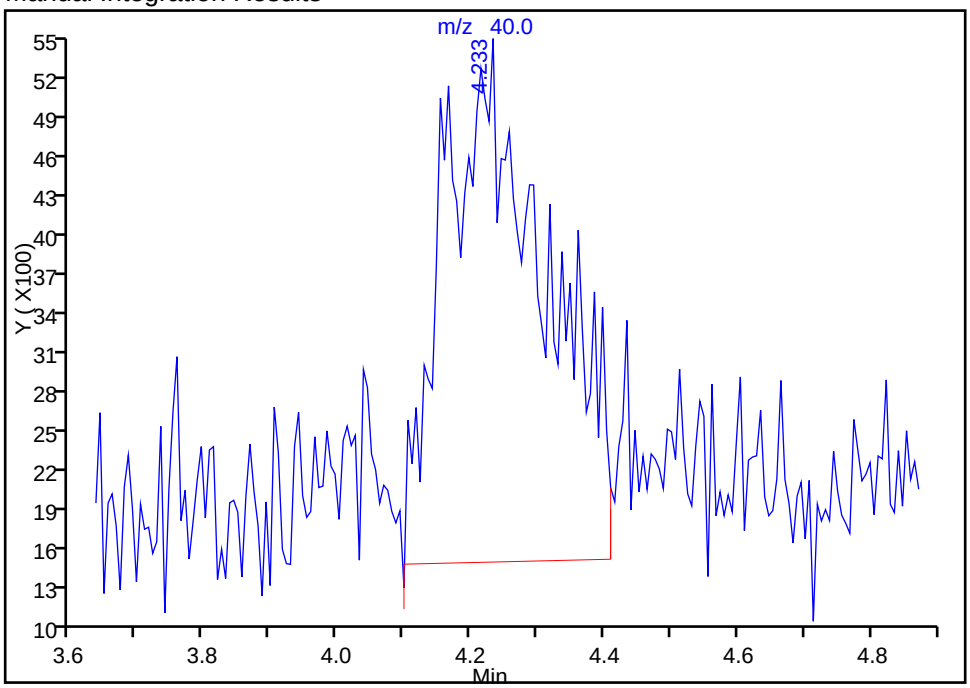
Processing Integration Results

RT: 4.23
Response: 24954
Amount: 1065.7254



Manual Integration Results

RT: 4.23
Response: 41062
Amount: 2083.1096



Reviewer: journetp, 20-Oct-2014 15:15:14
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

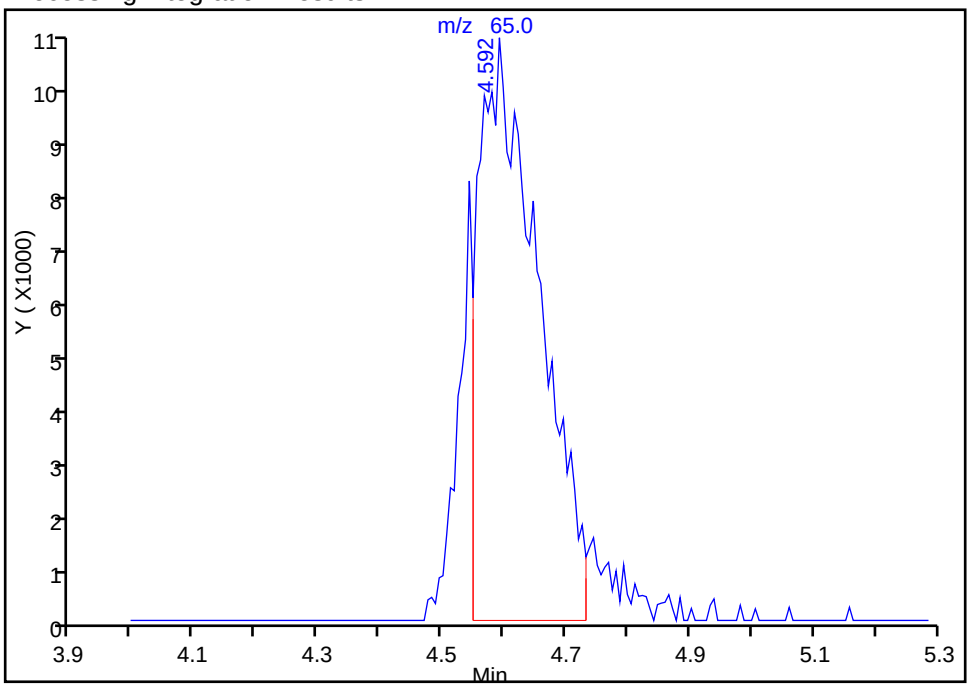
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102006.D				
Injection Date:	20-Oct-2014 14:12:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

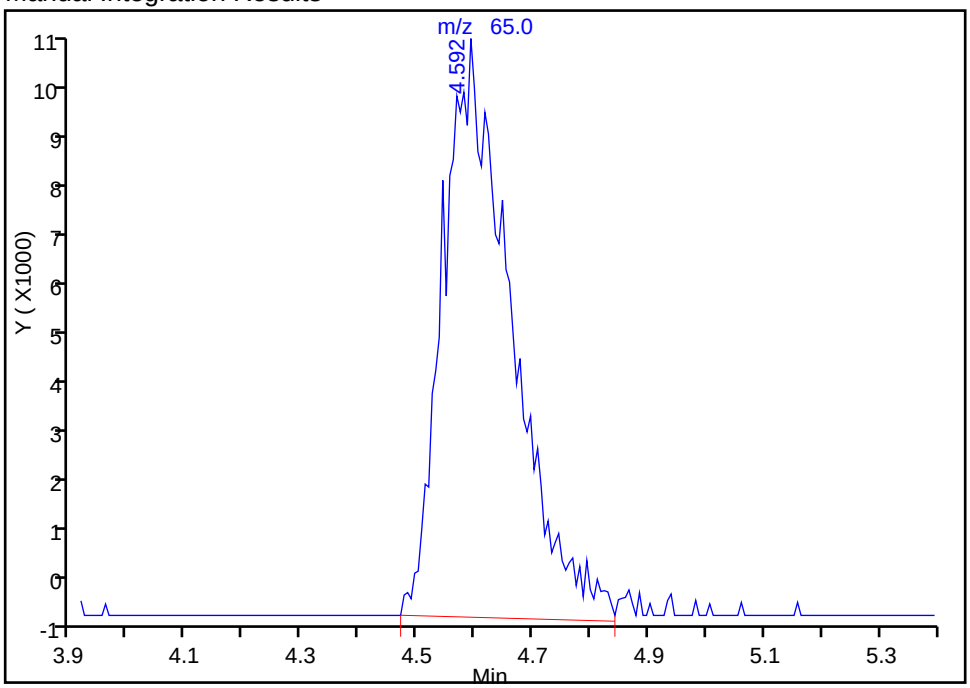
Processing Integration Results

RT: 4.59
Response: 68159
Amount: 5000.0000



Manual Integration Results

RT: 4.59
Response: 84461
Amount: 5000.0000



Reviewer: journetp, 20-Oct-2014 15:15:14
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

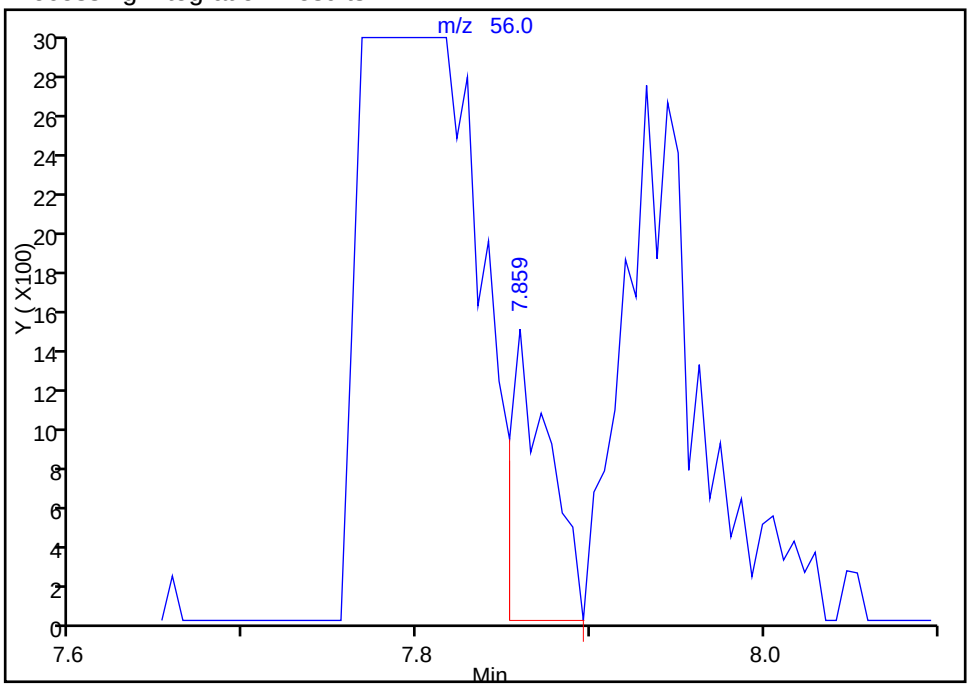
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102006.D				
Injection Date:	20-Oct-2014 14:12:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

60 n-Butanol, CAS: 71-36-3

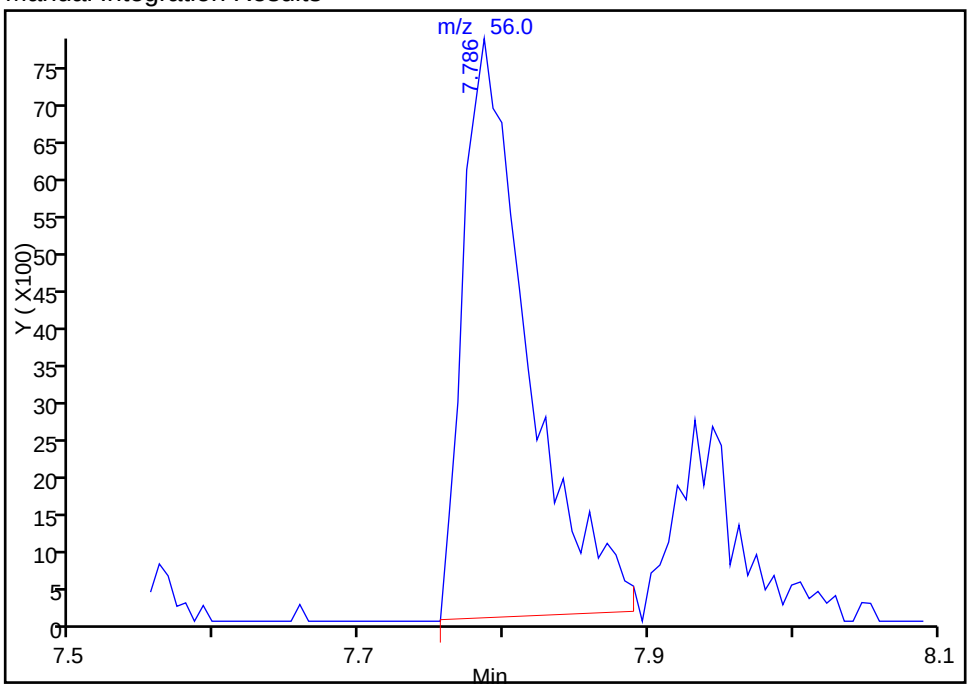
Processing Integration Results

RT: 7.86
Response: 2251
Amount: 447.0182



Manual Integration Results

RT: 7.79
Response: 24179
Amount: 4559.1475



Reviewer: journetp, 20-Oct-2014 15:15:14
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102007.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Oct-2014 14:42:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0003900-007
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub3

Method: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 22-Oct-2014 13:30:12 Calib Date: 20-Oct-2014 14:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102007.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.580	4.592	-0.012	95	69144	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.409	7.415	-0.006	98	201408	250.0	250.0	
* 4 Chlorobenzene-d5	119	10.469	10.463	0.006	90	44735	250.0	250.0	
* 5 1,4-Dichlorobenzene-d4	152	12.787	12.787	0.000	97	60751	250.0	250.0	
18 Ethanol	45	4.106	4.124	-0.018	15	31830	12500	12415	
27 Acetonitrile	40	4.185	4.233	-0.048	84	37450	2500.0	1912.9	M
38 2-Chloro-1,3-butadiene	53	5.517	5.505	0.012	56	142832	250.0	236.7	
39 Isopropyl ether	45	5.523	5.529	-0.006	97	352090	250.0	231.5	
26 Isopropyl alcohol	45	5.523	5.529	-0.006	92	354702	2500.0	2343.0	
40 Tert-butyl ethyl ether	59	5.967	5.973	-0.006	98	271428	250.0	227.4	
44 Propionitrile	54	6.223	6.253	-0.030	98	65855	2500.0	2106.9	
45 Ethyl acetate	43	6.253	6.265	-0.012	99	77280	500.0	500.0	
46 Methacrylonitrile	41	6.399	6.405	-0.006	97	344298	2500.0	2137.0	
57 Isooctane	57	7.208	7.220	-0.012	97	369799	NC	NC	
58 Tert-amyl methyl ether	73	7.257	7.257	0.000	98	196577	250.0	208.0	
60 n-Butanol	56	7.780	7.786	-0.006	92	29460	6250.0	5593.1	
62 Ethyl acrylate	55	7.932	7.932	0.000	98	59345	250.0	209.7	
66 Methyl methacrylate	69	8.170	8.170	0.001	94	58541	500.0	423.0	
69 2-Nitropropane	41	8.553	8.559	-0.006	97	25300	500.0	391.4	
70 2-Chloroethyl vinyl ether	63	8.632	8.644	-0.012	91	54746	500.0	453.6	
80 n-Butyl acetate	43	9.885	9.885	0.000	97	76093	250.0	247.0	
92 Cyclohexanone	55	11.582	11.576	0.006	89	13824	5000.0	5567.2	
102 Pentachloroethane	167	12.410	12.410	0.000	91	42703	250.0	232.4	
108 1,2,3-Trimethylbenzene	105	12.860	12.860	0.000	99	203731	250.0	226.8	
109 Benzyl chloride	91	12.945	12.945	0.000	99	72474	250.0	233.4	
113 1,3,5-Trichlorobenzene	180	14.180	14.180	0.000	96	40959	250.0	367.0	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Review Flags
M - Manually Integrated

Reagents:

voaWap9 Pr Re_00001	Amount Added:	10.00	Units: uL
VOA8260INT_00021	Amount Added:	10.00	Units: uL
VOA2CEVEPRI_00008	Amount Added:	10.00	Units: uL

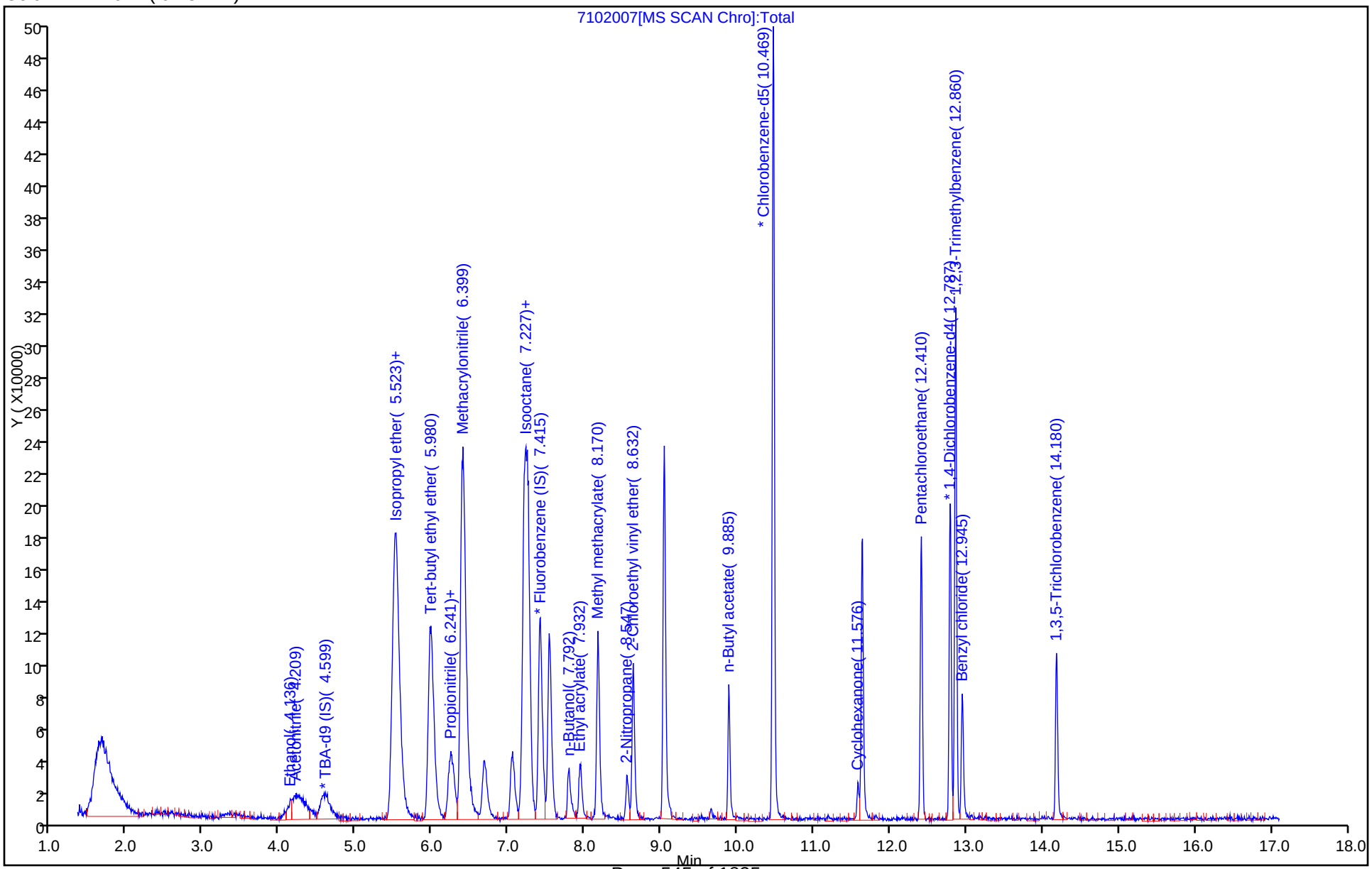
Report Date: 22-Oct-2014 13:30:13 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102007.D

Injection Date:	20-Oct-2014 14:42:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

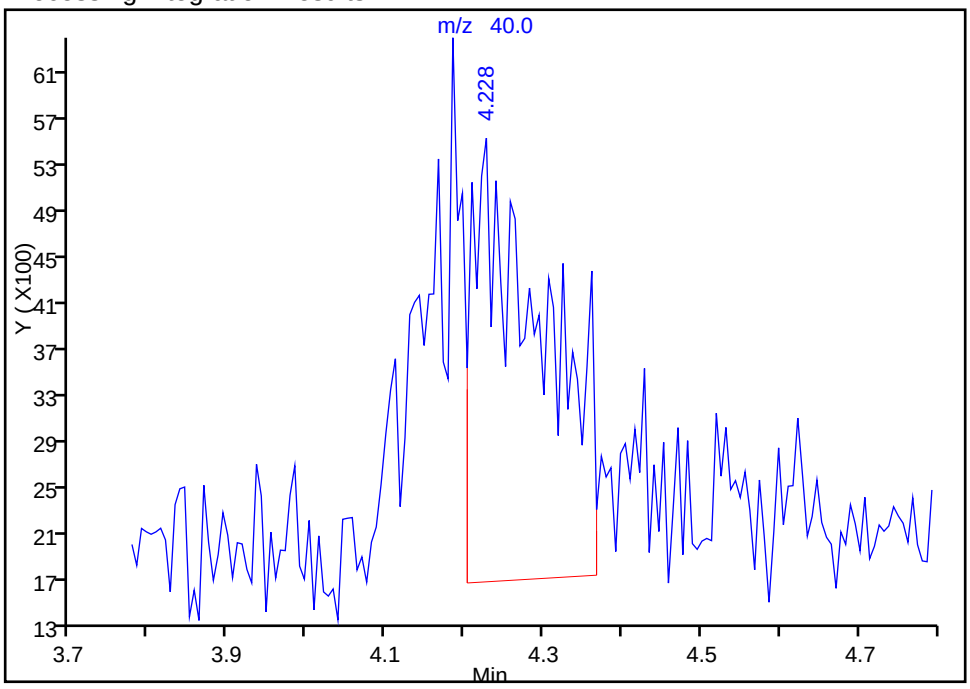
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102007.D
Injection Date: 20-Oct-2014 14:42:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

27 Acetonitrile, CAS: 75-05-8

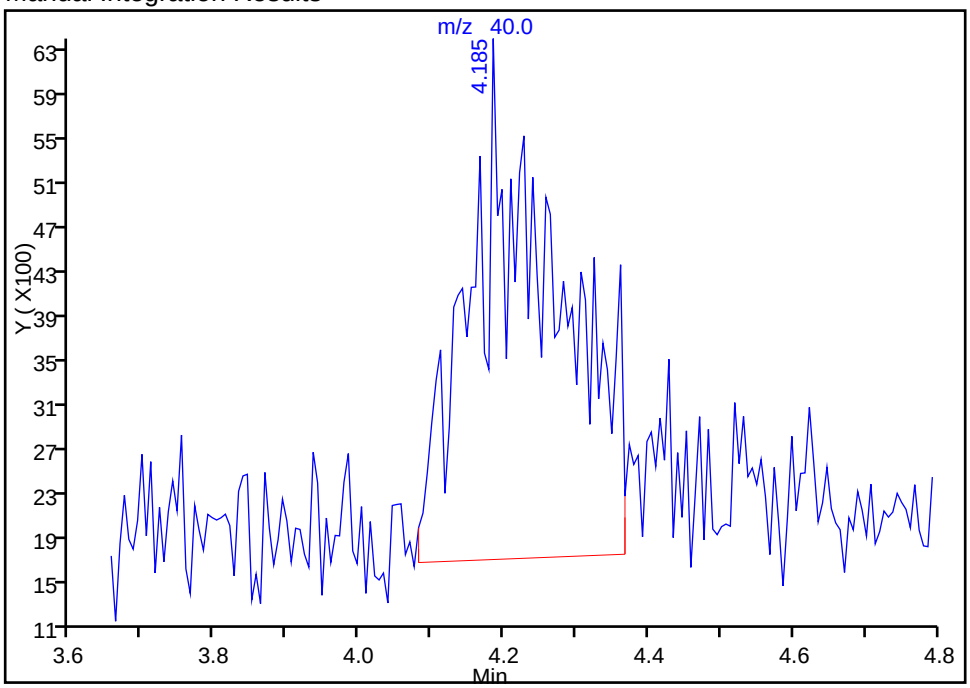
Processing Integration Results

RT: 4.23
Response: 23446
Amount: 1007.5098



Manual Integration Results

RT: 4.18
Response: 37450
Amount: 1912.9156



Reviewer: journetp, 20-Oct-2014 15:17:47
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

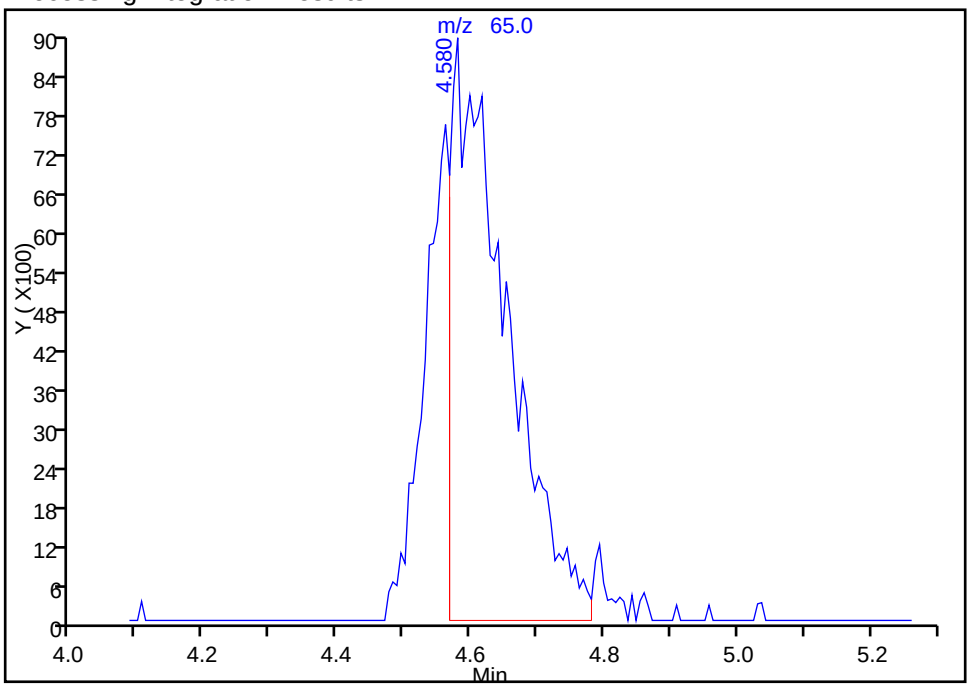
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102007.D				
Injection Date:	20-Oct-2014 14:42:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

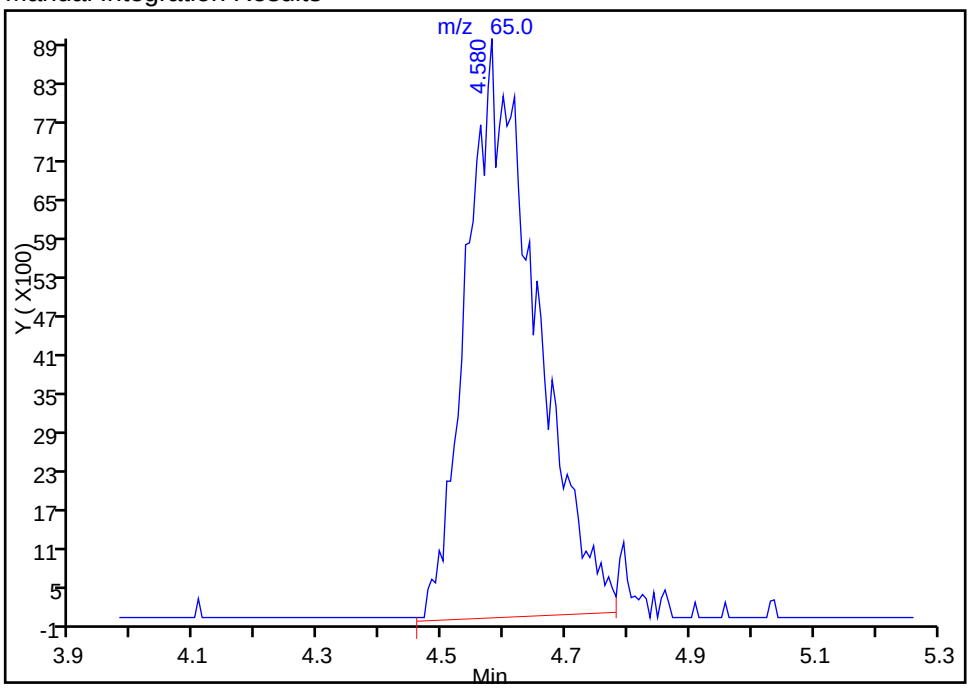
Processing Integration Results

RT: 4.58
Response: 51238
Amount: 5000.0000



Manual Integration Results

RT: 4.58
Response: 69144
Amount: 5000.0000



Reviewer: journetp, 20-Oct-2014 15:17:47
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Oct-2014 15:08:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0003900-008
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub3

Method: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 22-Oct-2014 13:30:13 Calib Date: 20-Oct-2014 15:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102008.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.592	4.592	0.000	94	70818	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.409	7.415	-0.006	98	168176	250.0	250.0	
* 4 Chlorobenzene-d5	119	10.469	10.463	0.006	67	36603	250.0	250.0	
* 5 1,4-Dichlorobenzene-d4	152	12.786	12.787	-0.001	97	54078	250.0	250.0	
18 Ethanol	45	4.105	4.124	-0.019	42	71784	31250	31280	
27 Acetonitrile	40	4.197	4.233	-0.036	95	114639	6250.0	6873.0	
38 2-Chloro-1,3-butadiene	53	5.492	5.505	-0.013	94	335133	625.0	658.1	
39 Isopropyl ether	45	5.517	5.529	-0.012	98	780276	625.0	616.1	
26 Isopropyl alcohol	45	5.517	5.529	-0.012	91	780276	6250.0	6185.5	
40 Tert-butyl ethyl ether	59	5.985	5.973	0.012	98	636966	625.0	636.6	
44 Propionitrile	54	6.235	6.253	-0.018	99	161902	6250.0	6211.0	
45 Ethyl acetate	43	6.259	6.265	-0.006	99	177951	1250.0	1250.0	
46 Methacrylonitrile	41	6.399	6.405	-0.006	96	769043	6250.0	5799.0	
57 Isooctane	57	7.214	7.220	-0.006	98	878925	NC	NC	
58 Tert-amyl methyl ether	73	7.257	7.257	0.000	97	462596	625.0	592.4	
60 n-Butanol	56	7.786	7.786	0.000	92	59104	15625	13759	
62 Ethyl acrylate	55	7.938	7.932	0.006	98	144010	625.0	622.5	
66 Methyl methacrylate	69	8.169	8.170	0.000	94	139362	1250.0	1213.1	
69 2-Nitropropane	41	8.552	8.559	-0.007	95	64076	1250.0	1217.9	
70 2-Chloroethyl vinyl ether	63	8.631	8.644	-0.013	90	128130	1250.0	1267.9	
80 n-Butyl acetate	43	9.885	9.885	0.000	97	180710	625.0	625.2	
92 Cyclohexanone	55	11.576	11.576	0.000	95	25196	12500	12514	
102 Pentachloroethane	167	12.409	12.410	-0.001	94	97881	625.0	602.6	
108 1,2,3-Trimethylbenzene	105	12.859	12.860	-0.001	99	459832	625.0	582.8	
109 Benzyl chloride	91	12.945	12.945	0.000	99	184803	625.0	660.8	
113 1,3,5-Trichlorobenzene	180	14.180	14.180	0.000	95	57703	625.0	587.8	M
118 2-Methylnaphthalene	142	16.467	16.504	-0.037	1	336	625.0	663.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

voaWap9 Pr Re_00001	Amount Added:	25.00	Units: uL
VOA8260INT_00021	Amount Added:	10.00	Units: uL
VOA2CEVEPRI_00008	Amount Added:	25.00	Units: uL

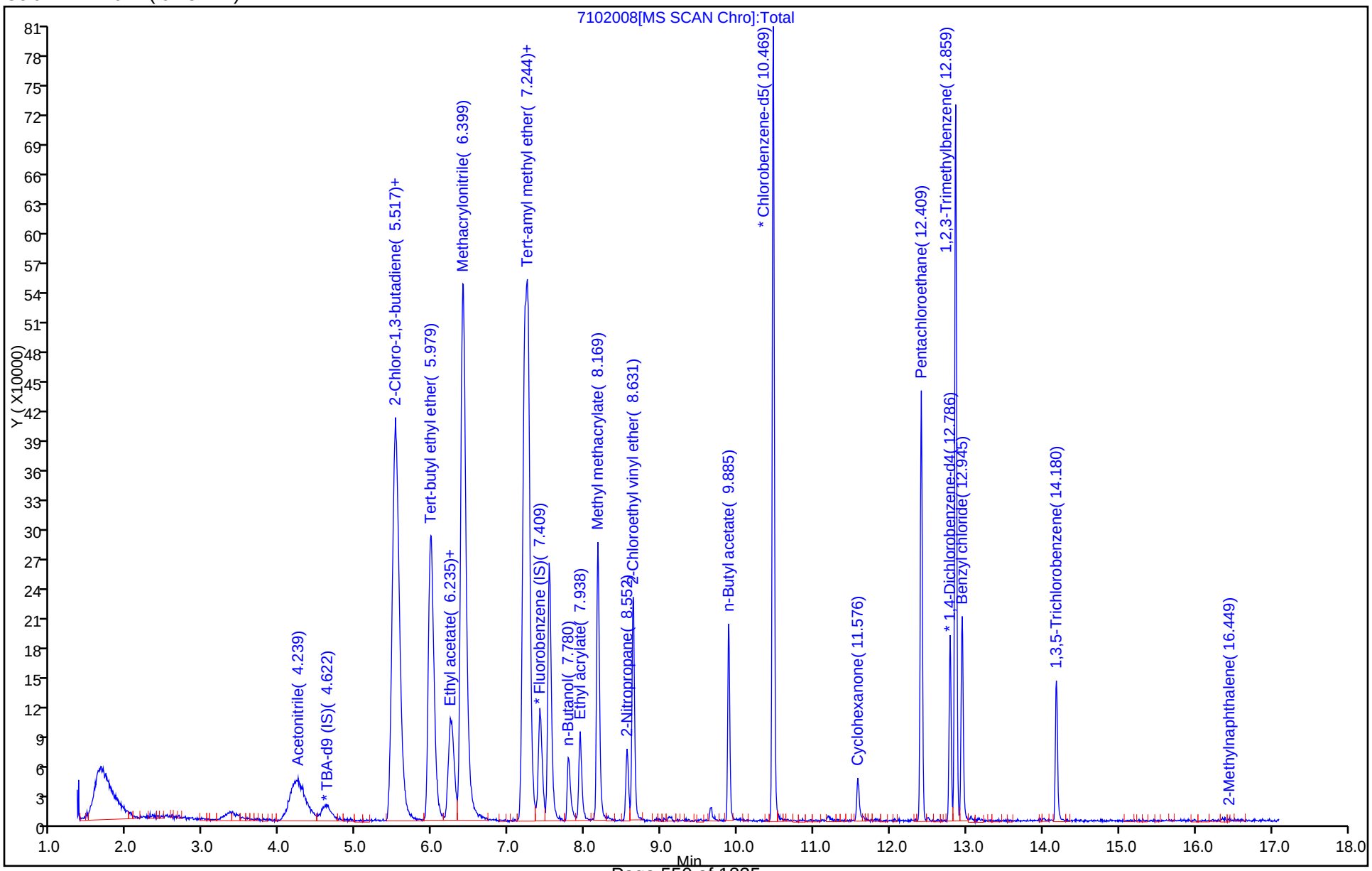
Report Date: 22-Oct-2014 13:30:14 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102008.D

Injection Date:	20-Oct-2014 15:08:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

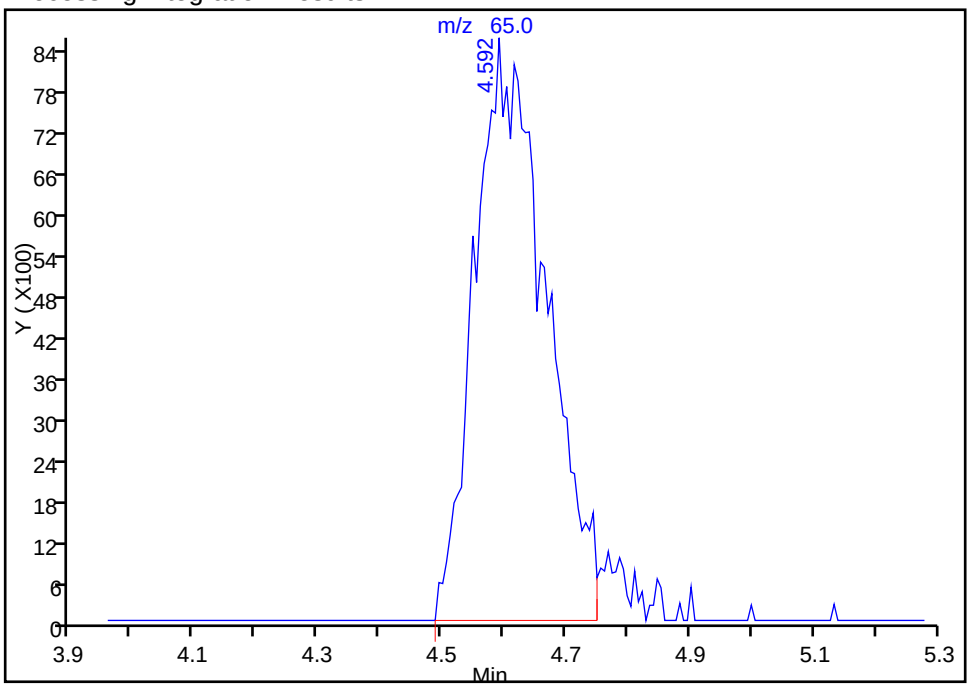
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102008.D
Injection Date: 20-Oct-2014 15:08:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

* 1 TBA-d9 (IS), CAS: 25725-11-5

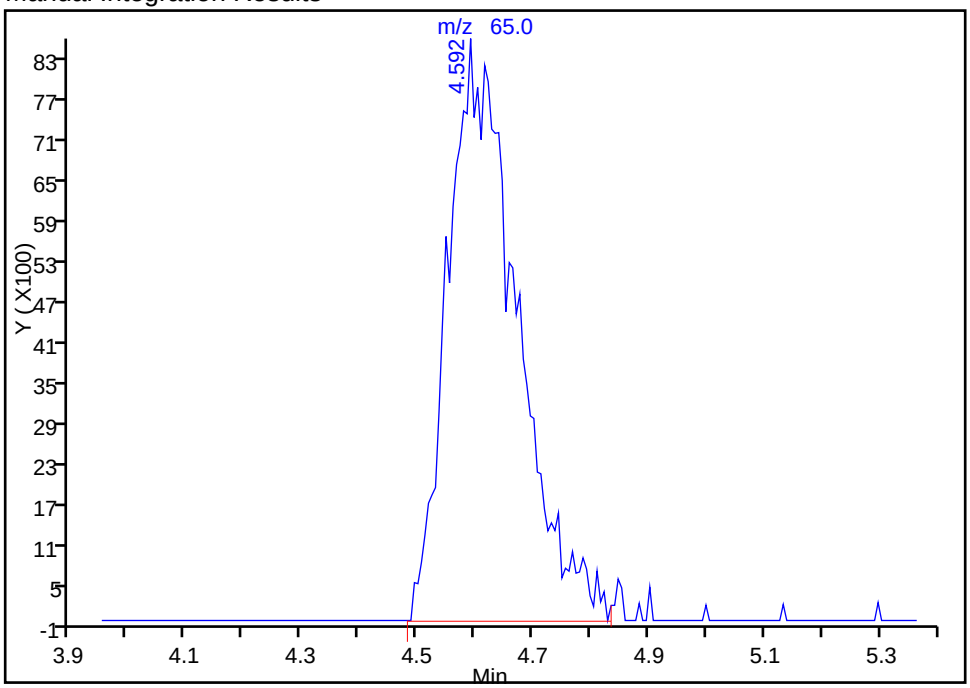
Processing Integration Results

RT: 4.59
Response: 67743
Amount: 5000.0000



Manual Integration Results

RT: 4.59
Response: 70818
Amount: 5000.0000



Reviewer: journetp, 20-Oct-2014 15:44:09
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

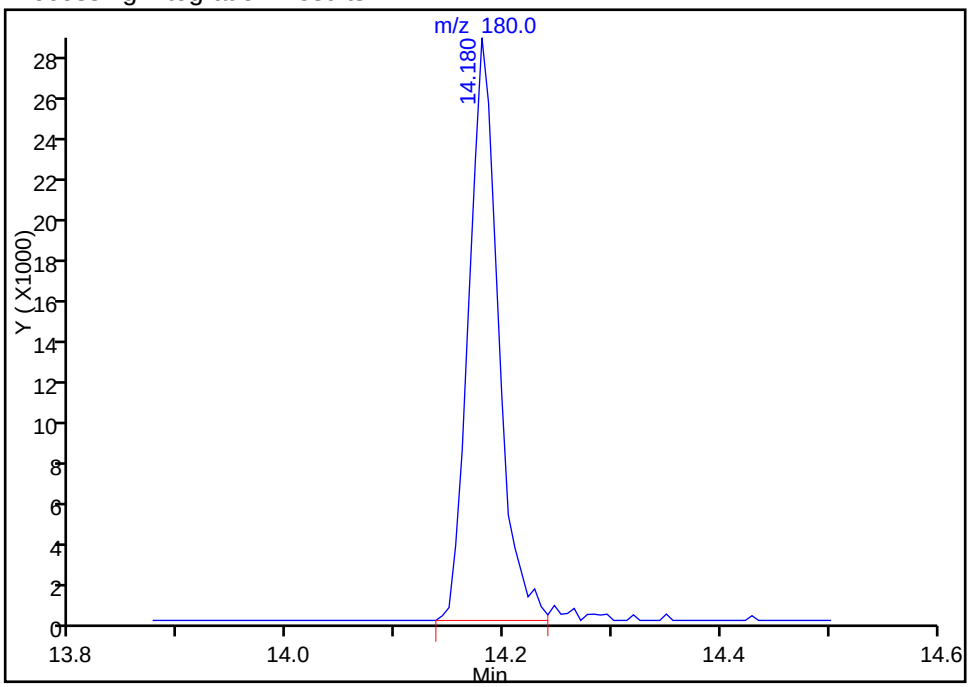
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102008.D
Injection Date: 20-Oct-2014 15:08:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

113 1,3,5-Trichlorobenzene, CAS: 108-70-3

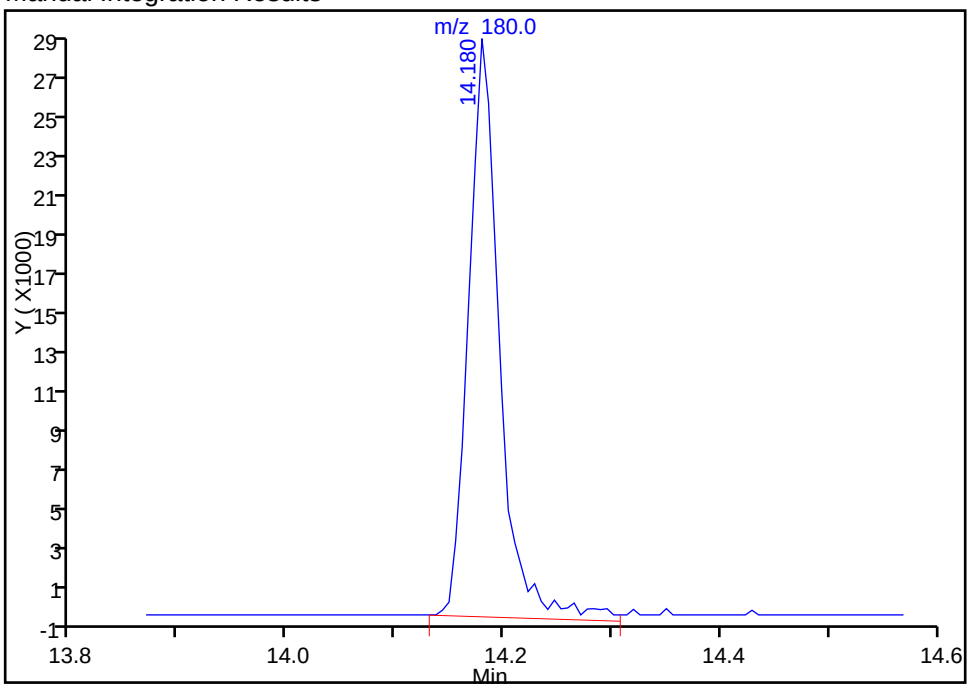
Processing Integration Results

RT: 14.18
Response: 54756
Amount: 544.3969



Manual Integration Results

RT: 14.18
Response: 57703
Amount: 587.7924



Reviewer: journetp, 20-Oct-2014 17:16:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Oct-2014 15:38:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0003900-009
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub3

Method: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 20-Oct-2014 17:45:20 Calib Date: 20-Oct-2014 15:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102009.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: journetp Date: 20-Oct-2014 16:47:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.701	4.592	0.109	64	70368	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.402	7.415	-0.013	97	190581	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.462	10.463	-0.001	93	43837	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.786	12.787	-0.001	97	63415	250.0	250.0	
18 Ethanol	45	4.044	4.124	-0.080	4	1756	62500	975.0	
27 Acetonitrile	40	4.209	4.233	-0.024	99	206764	12500	11138	
37 2-Chloro-1,3-butadiene	53	5.456	5.505	-0.049	93	669852	1250.0	1172.7	
39 Isopropyl ether	45	5.523	5.529	-0.006	97	1404357	1250.0	978.5	
28 Isopropyl alcohol	45	5.523	5.529	-0.006	91	1405680	12500	10142	
40 Tert-butyl ethyl ether	59	5.979	5.973	0.006	98	1137522	1250.0	1032.3	
45 Propionitrile	54	6.228	6.253	-0.025	99	320197	12500	11049	
43 Ethyl acetate	43	6.253	6.265	-0.012	99	355050	2500.0	2522.4	
46 Methacrylonitrile	41	6.411	6.405	0.006	97	1455547	12500	9685.3	
56 Isooctane	57	7.202	7.220	-0.018	97	1611476	1250.0	1030.2	
59 Tert-amyl methyl ether	73	7.256	7.257	-0.001	96	841340	1250.0	941.0	
61 n-Butanol	56	7.798	7.786	0.012	94	121536	31250	25705	
62 Ethyl acrylate	55	7.932	7.932	0.000	98	285337	1250.0	1056.5	
65 Methyl methacrylate	69	8.163	8.170	-0.006	94	274727	2500.0	2158.4	
70 2-Nitropropane	41	8.546	8.559	-0.013	97	130352	2500.0	2121.0	
69 2-Chloroethyl vinyl ether	63	8.625	8.644	-0.019	91	286826	2500.0	2503.9	
80 n-Butyl acetate	43	9.884	9.885	-0.001	97	347336	1250.0	1177.3	
92 Cyclohexanone	55	11.576	11.576	0.000	97	57224	25000	25094	
102 Pentachloroethane	167	12.409	12.410	-0.001	93	189370	NC	NC	
108 1,2,3-Trimethylbenzene	105	12.865	12.860	0.005	98	869411	1250.0	927.2	
109 Benzyl chloride	91	12.944	12.945	-0.001	99	372964	1250.0	1152.1	
113 1,3,5-Trichlorobenzene	180	14.179	14.180	-0.001	96	175559	1250.0	1706.8	
118 2-Methylnaphthalene	142	16.327	16.504	-0.177	90	15517	1250.0	1250.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

voaWap9 Pr Re_00001	Amount Added:	50.00	Units: uL
VOA8260INT_00021	Amount Added:	10.00	Units: uL
VOA2CEVEPRI_00008	Amount Added:	50.00	Units: uL

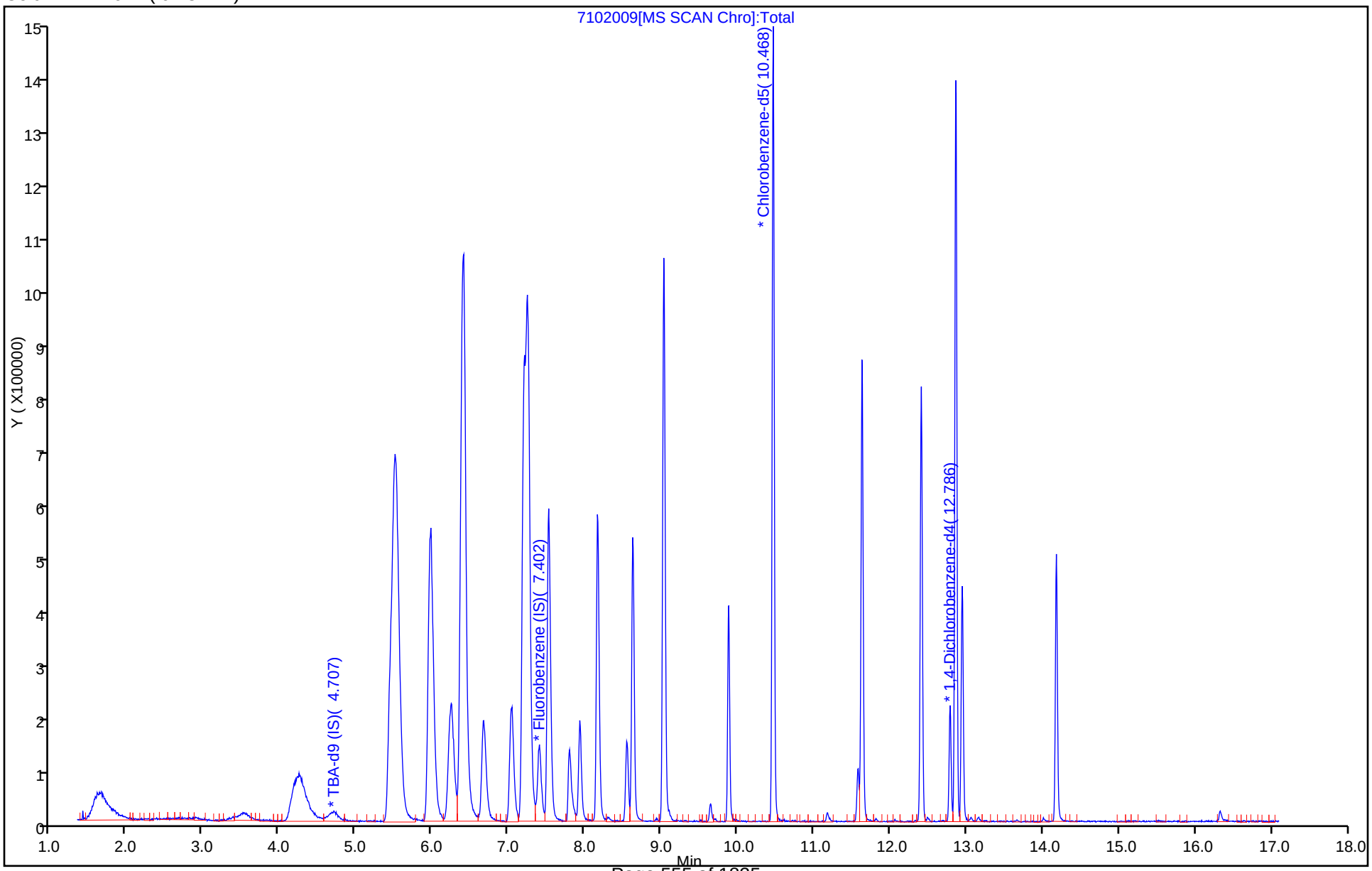
Report Date: 20-Oct-2014 17:45:20 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102009.D

Injection Date:	20-Oct-2014 15:38:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

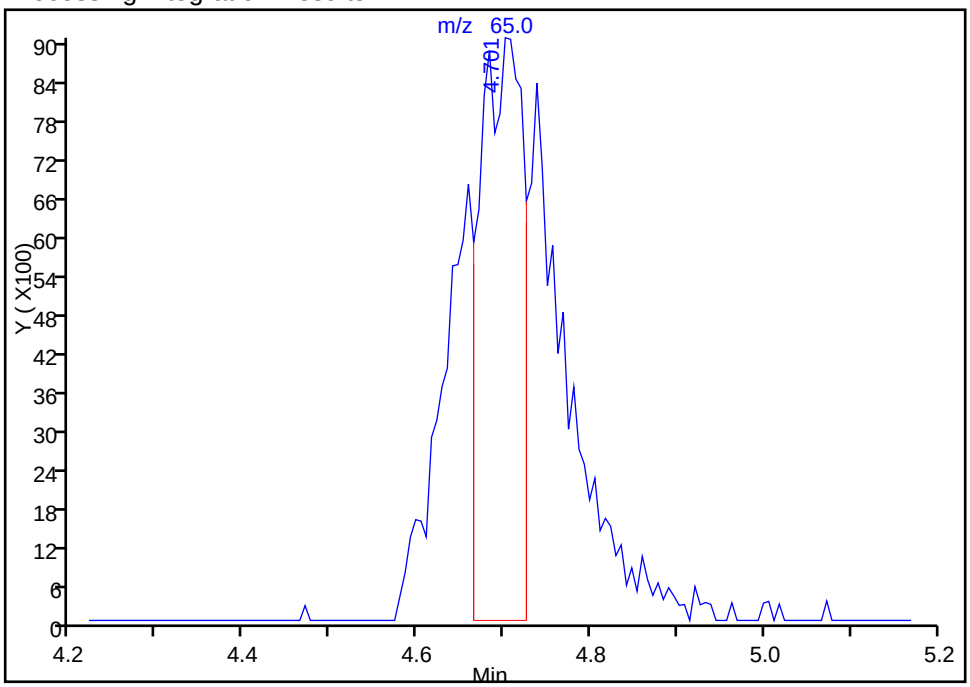
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102009.D
Injection Date: 20-Oct-2014 15:38:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

* 1 TBA-d9 (IS), CAS: 25725-11-5

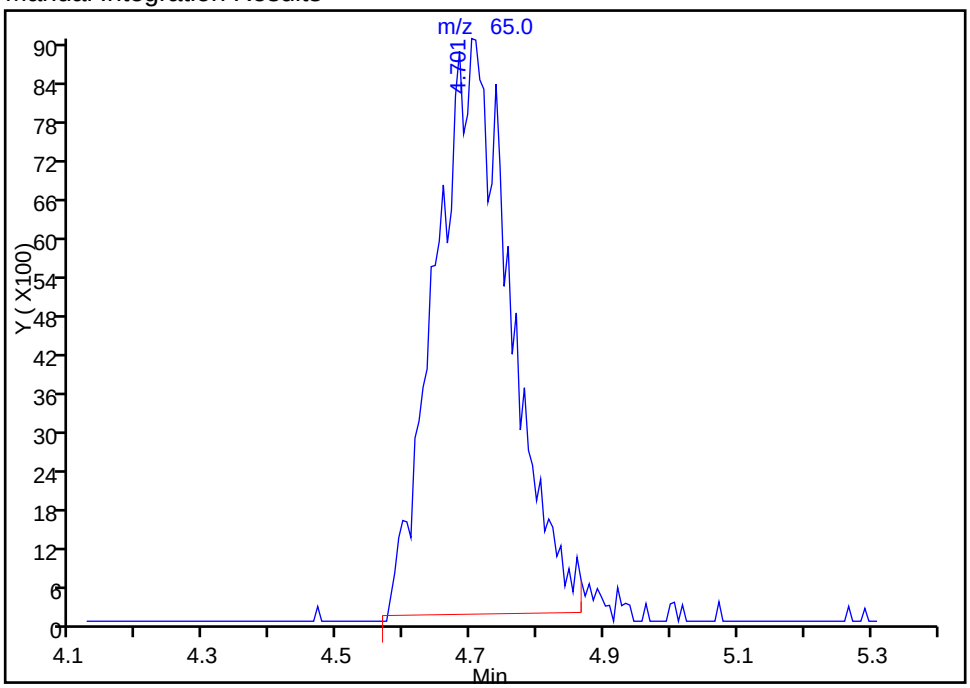
Processing Integration Results

RT: 4.70
Response: 31448
Amount: 5000.0000



Manual Integration Results

RT: 4.70
Response: 70368
Amount: 5000.0000



Reviewer: journetp, 20-Oct-2014 16:47:21
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 130597

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/13/2015 10:25 Calibration End Date: 01/13/2015 14:16 Calibration ID: 21192

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-130597/3	7011303.D
Level 2	IC 180-130597/4	7011304.D
Level 3	IC 180-130597/5	7011305.D
Level 4	ICIS 180-130597/6	7011306.D
Level 5	IC 180-130597/7	7011307.D
Level 6	IC 180-130597/8	7011308.D
Level 7	IC 180-130597/9	7011309.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2537 0.4289	0.3086 0.4006	0.2921	0.3209	0.3410	Ave		0.3351			0.1000	18.0		20.0			
Chloromethane	0.2838 0.4695	0.3878 0.4278	0.3089	0.3560	0.3976	Ave		0.3759			0.1000	17.0		20.0			
Vinyl chloride	0.2680 0.3674	0.3077 0.3293	0.2491	0.2897	0.3157	Ave		0.3038			0.1000	13.0		20.0			
1,3-Butadiene	0.4020 0.3855	0.3578 0.3352	0.2647	0.2902	0.3318	Ave		0.3382			0.0100	15.0		20.0			
Bromomethane	0.4045 0.2548	0.3170 0.2324	0.1853	0.2250	0.2336	Lin	1.4238	0.2346			0.0500				0.9960		0.9900
Chloroethane	0.3468 0.2599	0.2884 0.2379	0.1954	0.1995	0.2246	Qua	-4.004	0.2649	-0.000018		0.0500				0.9960		0.9900
Trichlorofluoromethane	0.8010 0.6706	0.7248 0.6064	0.5745	0.5784	0.6092	Ave		0.6521			0.1000	13.0		20.0			
Dichlorofluoromethane	0.8052 0.6858	0.7422 0.6169	0.5622	0.5866	0.5816	Ave		0.6544			0.0100	14.0		20.0			
Ethyl ether	0.2302 0.2091	0.1986 0.1938	0.1816	0.1564	0.1922	Ave		0.1946			0.0100	12.0		20.0			
Acrolein	0.0296 0.0260	0.0278 0.0230	0.0196	0.0225	0.0255	Ave		0.0249			0.0100	14.0		20.0			
1,1-Dichloroethene	0.3476 0.3453	0.4229 0.2941	0.2964	0.3198	0.3375	Ave		0.3377			0.1000	13.0		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4717 0.3979	0.4841 0.3448	0.3522	0.3570	0.3985	Ave		0.4009			0.1000	14.0		20.0			
Iodomethane	0.7477 0.6413	0.7637 0.5459	0.5706	0.6116	0.6134	Ave		0.6420			0.0100	13.0		20.0			
Acetone	0.0611 0.0822	0.1193 0.0686	0.0625	0.0622	0.0806	Qua	-1.638	0.0923	-0.000018		0.0500				0.9940		0.9900

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 130597

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/13/2015 10:25 Calibration End Date: 01/13/2015 14:16 Calibration ID: 21192

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	1.2339 1.0071	1.2282 0.8649	0.9704	1.2110	0.9847	Ave		1.0715			0.1000	14.0		20.0			
Allyl chloride	0.2148 0.2501	0.2851 0.1851	0.2335	0.2014	0.2293	Ave		0.2285			0.0100	14.0		20.0			
Methyl acetate	0.1317 0.1303	0.1437 0.1194	0.0800	0.1105	0.1210	Ave		0.1195			0.1000	17.0		20.0			
Methylene Chloride	0.4272 0.3244	0.3998 0.2836	0.2958	0.3127	0.3169	Ave		0.3372			0.1000	16.0		20.0			
trans-1,2-Dichloroethene	0.3375 0.3713	0.4133 0.3329	0.3494	0.3565	0.3634	Ave		0.3606			0.1000	7.5		20.0			
Acrylonitrile	0.0557 0.0535	0.0565 0.0477	0.0453	0.0492	0.0542	Ave		0.0517			0.0100	8.4		20.0			
tert-Butyl alcohol	0.9512 1.2419	0.9372 1.3702	0.8916	1.3346	1.0816	Ave		1.1155			0.0100	18.0		20.0			
Methyl tert-butyl ether	0.8118 0.7490	0.7971 0.6555	0.6883	0.6842	0.7229	Ave		0.7298			0.1000	8.1		20.0			
Hexane	0.4303 0.4448	0.4407 0.3986	0.3799	0.3881	0.4020	Ave		0.4120			0.0100	6.4		20.0			
Vinyl acetate	0.3554 0.2949	0.2998 0.2716	0.1331	0.2434	0.2593	Qua	-7.533	0.3092	-0.000024		0.0100				0.9950		0.9900
1,1-Dichloroethane	0.5650 0.5983	0.5698 0.5125	0.5048	0.5350	0.5350	Ave		0.5458			0.2000	6.1		20.0			
2,2-Dichloropropane	0.6040 0.5534	0.5753 0.4550	0.5029	0.5026	0.5295	Ave		0.5318			0.0100	9.5		20.0			
cis-1,2-Dichloroethene	0.3840 0.3835	0.3703 0.3262	0.3619	0.3532	0.3549	Ave		0.3620			0.1000	5.6		20.0			
2-Butanone (MEK)	0.0791 0.0862	0.0805 0.0833	0.0608	0.0619	0.0657	Ave		0.0739			0.0500	15.0		20.0			
Chlorobromomethane	0.1083 0.1995	0.1876 0.1779	0.1703	0.1760	0.1776	Ave		0.1710			0.0100	17.0		20.0			
Tetrahydrofuran	0.0365 0.0407	0.0312 0.0356	0.0338	0.0354	0.0353	Ave		0.0355			0.0100	8.1		20.0			
Chloroform	0.5603 0.5993	0.6438 0.5163	0.5353	0.5549	0.5463	Ave		0.5652			0.2000	7.6		20.0			
1,1,1-Trichloroethane	0.6810 0.5703	0.6838 0.4812	0.5701	0.5421	0.5533	Ave		0.5831			0.1000	13.0		20.0			
Isobutyl alcohol	0.0161 0.0133	0.0144 0.0116	0.0125	0.0120	0.0126	Ave		0.0132			0.0100	12.0		20.0			
Cyclohexane	0.5375 0.4950	0.5592 0.4161	0.4532	0.4602	0.4738	Ave		0.4850			0.1000	10.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 130597

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/13/2015 10:25 Calibration End Date: 01/13/2015 14:16 Calibration ID: 21192

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.6078 0.5719	0.6335 0.4868	0.5457	0.5608	0.5575	Ave		0.5663			0.1000	8.3		20.0			
1,1-Dichloropropene	0.4352 0.3826	0.1039 0.3352	0.3686	0.3672	0.3631	Lin	3.0313	0.3419			0.0100				0.9940		0.9900
Benzene	1.2013 1.0987	1.1765 0.9454	1.0907	1.0871	1.0754	Ave		1.0964			0.5000	7.5		20.0			
1,2-Dichloroethane	0.3537 0.3267	0.3841 0.2982	0.3312	0.2910	0.3199	Ave		0.3293			0.1000	9.7		20.0			
n-Heptane	0.4139 0.3790	0.3649 0.3422	0.3614	0.3355	0.3581	Ave		0.3650			0.0100	7.1		20.0			
Trichloroethene	0.3692 0.3883	0.3754 0.3552	0.3618	0.3612	0.3582	Ave		0.3670			0.2000	3.2		20.0			
Methylcyclohexane	0.6609 0.5773	0.6130 0.4883	0.5373	0.5412	0.5620	Ave		0.5686			0.1000	9.8		20.0			
1,2-Dichloropropane	0.2319 0.2297	0.2243 0.2069	0.2160	0.2097	0.2103	Ave		0.2184			0.1000	4.7		20.0			
Dibromomethane	0.1747 0.1696	0.1550 0.1536	0.1410	0.1477	0.1604	Ave		0.1574			0.0100	7.5		20.0			
1,4-Dioxane	0.0001 0.0012	0.0001 0.0012	0.0005	0.0007	0.0009	Qua	-1.393	0.0013	0	*	0.0100				0.9970		0.9900
Dichlorobromomethane	0.3718 0.4207	0.3934 0.3798	0.3856	0.3804	0.3794	Ave		0.3873			0.2000	4.2		20.0			
cis-1,3-Dichloropropene	0.3679 0.4406	0.3505 0.3848	0.3717	0.3857	0.3961	Ave		0.3853			0.2000	7.4		20.0			
4-Methyl-2-pentanone (MIBK)	0.5745 0.6772	0.4926 0.5549	0.5678	0.5638	0.6073	Ave		0.5769			0.1000	9.7		20.0			
Toluene	4.6734 3.8294	4.5447 3.0132	4.5029	4.3741	4.2375	Ave		4.1679			0.4000	14.0		20.0			
trans-1,3-Dichloropropene	1.0829 1.2654	1.1950 1.0355	1.2315	1.1365	1.2471	Ave		1.1706			0.1000	7.5		20.0			
Ethyl methacrylate	0.9733 0.8653	0.8014 0.6684	0.8083	0.7745	0.8199	Ave		0.8159			0.0100	11.0		20.0			
1,1,2-Trichloroethane	0.6287 0.7473	0.7254 0.5984	0.7111	0.7085	0.7322	Ave		0.6931			0.1000	8.2		20.0			
Tetrachloroethene	1.0972 0.9850	1.0626 0.8254	0.9655	1.0361	0.9865	Ave		0.9941			0.2000	8.9		20.0			
1,3-Dichloropropane	1.1888 1.0555	1.1516 0.8452	1.1314	1.1237	1.0723	Ave		1.0812			0.0100	10.0		20.0			
2-Hexanone	0.2801 0.4287	0.1981 +++++	0.3555	0.3685	0.4336	Lin	-9.014	0.4435			0.1000				0.9980		0.9900

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 130597

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/13/2015 10:25 Calibration End Date: 01/13/2015 14:16 Calibration ID: 21192

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorodibromomethane	1.2149 1.2108	1.1149 0.9958	1.1072	1.1547	1.1941	Ave		1.1418			0.1000	6.8		20.0			
1,2-Dibromoethane	0.7834 0.7990	0.7046 0.6734	0.7231	0.7299	0.7563	Ave		0.7385			0.1000	6.0		20.0			
Chlorobenzene	3.4998 2.9568	2.9928 2.3365	3.0661	3.0671	2.9900	Ave		2.9870			0.5000	11.0		20.0			
1,1,1,2-Tetrachloroethane	1.3816 1.2360	1.3084 1.0178	1.2129	1.2763	1.2675	Ave		1.2429			0.0100	9.1		20.0			
Ethylbenzene	1.8864 1.4882	1.7924 1.1795	1.7533	1.6541	1.6220	Ave		1.6251			0.1000	14.0		20.0			
m-Xylene & p-Xylene	2.5254 1.9658	2.1681 1.5711	2.1668	2.1269	2.1016	Ave		2.0894			0.1000	14.0		20.0			
o-Xylene	2.4539 2.0034	2.0915 1.5884	2.2784	2.2444	2.0988	Ave		2.1084			0.3000	13.0		20.0			
Styrene	3.6644 2.8552	3.4469 2.2367	3.4510	3.3073	3.1734	Ave		3.1621			0.3000	15.0		20.0			
Bromoform	0.4756 0.6698	0.6104 0.5787	0.5576	0.5808	0.6119	Ave		0.5836			0.1000	10.0		20.0			
Isopropylbenzene	6.7545 5.0941	6.3856 +++++	6.1597	5.9041	5.7412	Ave		6.0065			0.1000	9.5		20.0			
1,1,2,2-Tetrachloroethane	0.7969 0.7385	0.6454 0.5919	0.6675	0.7057	0.7295	Ave		0.6965			0.3000	9.7		20.0			
Bromobenzene	1.0108 1.0534	0.9779 0.8985	1.0159	1.0221	0.9518	Ave		0.9900			0.0100	5.2		20.0			
1,2,3-Trichloropropane	0.2175 0.1955	0.1965 0.1807	0.1796	0.1783	0.1982	Ave		0.1923			0.0100	7.3		20.0			
trans-1,4-Dichloro-2-butene	0.1333 0.1514	0.0517 0.1356	0.1087	0.1430	0.1335	Lin	-0.949	0.1395			0.0100				0.9950		0.9900
N-Propylbenzene	1.3496 1.3344	1.3229 1.1250	1.3923	1.3780	1.2973	Ave		1.3142			0.0100	6.8		20.0			
2-Chlorotoluene	1.0906 1.1842	1.2157 0.9925	1.2071	1.1752	1.0972	Ave		1.1375			0.0100	7.1		20.0			
1,3,5-Trimethylbenzene	4.3260 3.4077	4.1503 2.6843	3.8136	3.8078	3.5238	Ave		3.6734			0.0100	15.0		20.0			
4-Chlorotoluene	1.1326 1.0898	1.1982 0.9243	1.1801	1.1416	1.0405	Ave		1.1010			0.0100	8.6		20.0			
tert-Butylbenzene	3.6502 3.4663	3.8057 2.8373	3.6343	3.7130	3.3841	Ave		3.4987			0.0100	9.3		20.0			
1,2,4-Trimethylbenzene	3.8930 3.4023	3.9809 2.6615	3.8070	3.7835	3.5281	Ave		3.5795			0.0100	13.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 130597

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/13/2015 10:25 Calibration End Date: 01/13/2015 14:16 Calibration ID: 21192

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	5.0313 4.4753	5.2065 3.5404	4.8696	4.9580	4.6738	Ave		4.6793			0.0100	12.0		20.0			
1,3-Dichlorobenzene	1.7926 1.9259	1.9475 1.6175	1.9421	1.9303	1.8376	Ave		1.8562			0.6000	6.5		20.0			
4-Isopropyltoluene	4.5792 3.6453	4.3026 2.9146	4.1327	4.0870	3.7663	Ave		3.9182			0.0100	14.0		20.0			
1,4-Dichlorobenzene	1.9001 1.8367	1.8102 1.5489	1.7391	1.7695	1.7295	Ave		1.7620			0.5000	6.3		20.0			
n-Butylbenzene	3.4036 3.1619	3.4837 2.5040	3.4079	3.4302	3.2305	Ave		3.2317			0.0100	11.0		20.0			
1,2-Dichlorobenzene	1.4915 1.5421	1.3829 1.2772	1.4394	1.5143	1.5068	Ave		1.4506			0.4000	6.4		20.0			
1,2-Dibromo-3-Chloropropane	0.0110 0.1192	0.0276 0.1089	0.0627	0.0804	0.0866	Qua	-6.674	0.1317	-0.000013		0.0500				0.9960		0.9900
1,2,4-Trichlorobenzene	0.3848 +++++	0.4013 +++++	0.3605	0.4049	0.5116	Ave		0.4126			0.2000	14.0		20.0			
Hexachlorobutadiene	0.2688 +++++	0.2319 +++++	0.2003	0.2307	0.2725	Ave		0.2408			0.0100	12.0		20.0			
Naphthalene	0.7767 +++++	0.6771 +++++	0.6131	0.7294	0.9006	Ave		0.7394			0.0100	15.0		20.0			
1,2,3-Trichlorobenzene	0.3014 0.4817	0.2483 0.5269	0.2478	0.2568	0.3338	Qua	-17.12	0.4203	0.0000984		0.0100				0.9970		0.9900
Dibromofluoromethane (Surr)	0.3512 0.3060	0.3240 0.2631	0.2962	0.2899	0.2915	Ave		0.3031				9.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2918 0.3134	0.3039 0.2803	0.2806	0.2874	0.2957	Ave		0.2933				4.2		20.0			
Toluene-d8 (Surr)	4.1192 3.4025	4.0733 2.6935	4.0523	3.7995	3.6811	Ave		3.6888				14.0		20.0			
4-Bromofluorobenzene (Surr)	1.5628 1.4082	1.4745 1.1200	1.4802	1.4990	1.4842	Ave		1.4327				10.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 130597

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/13/2015 10:25 Calibration End Date: 01/13/2015 14:16 Calibration ID: 21192

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-130597/3	7011303.D
Level 2	IC 180-130597/4	7011304.D
Level 3	IC 180-130597/5	7011305.D
Level 4	ICIS 180-130597/6	7011306.D
Level 5	IC 180-130597/7	7011307.D
Level 6	IC 180-130597/8	7011308.D
Level 7	IC 180-130597/9	7011309.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	9893 536281	25067 988288	78232	132718	174601	25.0 625	50.0 1250	125	200	250
Chloromethane	FB	Ave	11067 587086	31494 1055519	82718	147230	203631	25.0 625	50.0 1250	125	200	250
Vinyl chloride	FB	Ave	10449 459376	24989 812505	66718	119820	161656	25.0 625	50.0 1250	125	200	250
1,3-Butadiene	FB	Ave	15675 482008	29059 827036	70885	120038	169915	25.0 625	50.0 1250	125	200	250
Bromomethane	FB	Lin	15772 318660	25749 573423	49614	93068	119646	25.0 625	50.0 1250	125	200	250
Chloroethane	FB	Qua	13522 325036	23426 586857	52322	82520	115014	25.0 625	50.0 1250	125	200	250
Trichlorofluoromethane	FB	Ave	31235 838531	58866 1496164	153843	239224	311978	25.0 625	50.0 1250	125	200	250
Dichlorofluoromethane	FB	Ave	31399 857564	60282 1522063	150560	242600	297807	25.0 625	50.0 1250	125	200	250
Ethyl ether	FB	Ave	8978 261440	16127 478023	48641	64700	98429	25.0 625	50.0 1250	125	200	250
Acrolein	FB	Ave	23115 58538	28242 56680	31489	40783	52230	500 1125	625 1250	750	875	1000
1,1-Dichloroethene	FB	Ave	13553 431803	34346 725576	79379	132273	172843	25.0 625	50.0 1250	125	200	250
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	18395 497550	39318 850597	94314	147663	204076	25.0 625	50.0 1250	125	200	250
Iodomethane	FB	Ave	29159 801889	62025 1346729	152808	252958	314103	25.0 625	50.0 1250	125	200	250
Acetone	FB	Qua	2382 102763	9688 169189	16727	25708	41277	25.0 625	50.0 1250	125	200	250
Carbon disulfide	FB	Ave	48115 1259329	99753 2133918	259885	500877	504245	25.0 625	50.0 1250	125	200	250

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 130597

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/13/2015 10:25 Calibration End Date: 01/13/2015 14:16 Calibration ID: 21192

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Allyl chloride	FB	Ave	8375 312681	23153 456622	62529	83313	117413	25.0 625	50.0 1250	125	200	250
Methyl acetate	FB	Ave	25670 814817	58339 1473342	107057	228540	309915	125 3125	250 6250	625	1000	1250
Methylene Chloride	FB	Ave	16659 405566	32474 699605	79224	129349	162288	25.0 625	50.0 1250	125	200	250
trans-1,2-Dichloroethene	FB	Ave	13163 464256	33566 821343	93571	147453	186096	25.0 625	50.0 1250	125	200	250
Acrylonitrile	FB	Ave	21738 669394	45925 1177152	121280	203541	277345	250 6250	500 12500	1250	2000	2500
tert-Butyl alcohol	TBA	Ave	3006 162082	7535 278590	23437	41856	51474	250 6250	500 12500	1250	2000	2500
Methyl tert-butyl ether	FB	Ave	31656 936520	64735 1617342	184318	282966	370195	25.0 625	50.0 1250	125	200	250
Hexane	FB	Ave	16779 556126	35794 983353	101747	160502	205834	25.0 625	50.0 1250	125	200	250
Vinyl acetate	FB	Qua	13858 368692	24349 670161	35633	100663	132780	25.0 625	50.0 1250	125	200	250
1,1-Dichloroethane	FB	Ave	22031 748140	46278 1264426	135177	221275	273945	25.0 625	50.0 1250	125	200	250
2,2-Dichloropropane	FB	Ave	23553 691992	46721 1122545	134676	207872	271155	25.0 625	50.0 1250	125	200	250
cis-1,2-Dichloroethene	FB	Ave	14973 479585	30074 804734	96918	146094	181720	25.0 625	50.0 1250	125	200	250
2-Butanone (MEK)	FB	Ave	3085 107765	6537 205489	16288	25608	33669	25.0 625	50.0 1250	125	200	250
Chlorobromomethane	FB	Ave	4225 249482	15238 438790	45616	72808	90951	25.0 625	50.0 1250	125	200	250
Tetrahydrofuran	FB	Ave	2844 101838	5060 175530	18093	29261	36112	50.0 1250	100 2500	250	400	500
Chloroform	FB	Ave	21850 749319	52286 1273786	143351	229487	279758	25.0 625	50.0 1250	125	200	250
1,1,1-Trichloroethane	FB	Ave	26557 713152	55539 1187240	152679	224208	283359	25.0 625	50.0 1250	125	200	250
Isobutyl alcohol	FB	Ave	15696 417229	29189 713286	83691	123955	160684	625 15625	1250 31250	3125	5000	6250
Cyclohexane	FB	Ave	20960 618913	45416 1026660	121371	190351	242617	25.0 625	50.0 1250	125	200	250
Carbon tetrachloride	FB	Ave	23703 715131	51451 1200925	146153	231937	285485	25.0 625	50.0 1250	125	200	250
1,1-Dichloropropene	FB	Lin	16972 478406	8441 826930	98708	151877	185940	25.0 625	50.0 1250	125	200	250

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 130597

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/13/2015 10:25 Calibration End Date: 01/13/2015 14:16 Calibration ID: 21192

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	46845 1373837	95549 2332472	292095	449623	550707	25.0 625	50.0 1250	125	200	250
1,2-Dichloroethane	FB	Ave	13794 408504	31199 735764	88707	120373	163836	25.0 625	50.0 1250	125	200	250
n-Heptane	FB	Ave	16142 473926	29639 844195	96797	138778	183364	25.0 625	50.0 1250	125	200	250
Trichloroethene	FB	Ave	14396 485513	30490 876234	96888	149393	183406	25.0 625	50.0 1250	125	200	250
Methylcyclohexane	FB	Ave	25773 721817	49789 1204806	143901	223846	287817	25.0 625	50.0 1250	125	200	250
1,2-Dichloropropane	FB	Ave	9045 287196	18215 510395	57850	86735	107707	25.0 625	50.0 1250	125	200	250
Dibromomethane	FB	Ave	6814 212100	12586 378890	37760	61090	82134	25.0 625	50.0 1250	125	200	250
1,4-Dioxane	FB	Qua	83 30057	203 58394	2766	5898	8965	500 12500	1000 25000	2500	4000	5000
Dichlorobromomethane	FB	Ave	14498 526019	31951 937017	103269	157336	194277	25.0 625	50.0 1250	125	200	250
cis-1,3-Dichloropropene	FB	Ave	14345 550899	28469 949373	99548	159523	202862	25.0 625	50.0 1250	125	200	250
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	5511 232690	10179 399867	36891	58010	79994	25.0 625	50.0 1250	125	200	250
Toluene	CBZ	Ave	44831 1315779	93909 2171184	292549	450085	558138	25.0 625	50.0 1250	125	200	250
trans-1,3-Dichloropropene	CBZ	Ave	10388 434793	24694 746165	80008	116941	164265	25.0 625	50.0 1250	125	200	250
Ethyl methacrylate	CBZ	Ave	9337 297317	16559 481596	52516	79697	107987	25.0 625	50.0 1250	125	200	250
1,1,2-Trichloroethane	CBZ	Ave	6031 256756	14989 431165	46199	72908	96436	25.0 625	50.0 1250	125	200	250
Tetrachloroethene	CBZ	Ave	10525 338463	21957 594782	62728	106614	129935	25.0 625	50.0 1250	125	200	250
1,3-Dichloropropane	CBZ	Ave	11404 362657	23796 608979	73508	115623	141233	25.0 625	50.0 1250	125	200	250
2-Hexanone	CBZ	Lin	2687 147298	4094 +++++	23099	37916	57105	25.0 625	50.0 +++++	125	200	250
Chlorodibromomethane	CBZ	Ave	11654 416027	23037 717561	71936	118819	157283	25.0 625	50.0 1250	125	200	250
1,2-Dibromoethane	CBZ	Ave	7515 274538	14560 485212	46977	75105	99614	25.0 625	50.0 1250	125	200	250
Chlorobenzene	CBZ	Ave	33573 1015948	61843 1683578	199202	315599	393816	25.0 625	50.0 1250	125	200	250

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 130597

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/13/2015 10:25 Calibration End Date: 01/13/2015 14:16 Calibration ID: 21192

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBZ	Ave	13254 424679	27037 733357	78799	131334	166943	25.0 625	50.0 1250	125	200	250
Ethylbenzene	CBZ	Ave	18096 511345	37037 849871	113910	170206	213634	25.0 625	50.0 1250	125	200	250
m-Xylene & p-Xylene	CBZ	Ave	24226 675436	44801 1132055	140773	218850	276812	25.0 625	50.0 1250	125	200	250
o-Xylene	CBZ	Ave	23540 688377	43218 1144541	148022	230943	276433	25.0 625	50.0 1250	125	200	250
Styrene	CBZ	Ave	35152 981043	71226 1611648	224206	340316	417972	25.0 625	50.0 1250	125	200	250
Bromoform	CBZ	Ave	4562 230135	12614 416969	36228	59767	80601	25.0 625	50.0 1250	125	200	250
Isopropylbenzene	CBZ	Ave	64795 1750317	131950 +++++	400185	607518	756190	25.0 625	50.0 +++++	125	200	250
1,1,2,2-Tetrachloroethane	CBZ	Ave	7645 253757	13336 426488	43366	72619	96089	25.0 625	50.0 1250	125	200	250
Bromobenzene	DCB	Ave	13322 434362	25983 750766	83435	131687	162643	25.0 625	50.0 1250	125	200	250
1,2,3-Trichloropropane	DCB	Ave	2866 80600	5220 151013	14752	22967	33873	25.0 625	50.0 1250	125	200	250
trans-1,4-Dichloro-2-butene	DCB	Lin	1757 62445	1373 113291	8924	18420	22810	25.0 625	50.0 1250	125	200	250
N-Propylbenzene	DCB	Ave	17787 550260	35149 940062	114344	177550	221683	25.0 625	50.0 1250	125	200	250
2-Chlorotoluene	DCB	Ave	14373 488317	32301 829312	99138	151425	187501	25.0 625	50.0 1250	125	200	250
1,3,5-Trimethylbenzene	DCB	Ave	57014 1405192	110277 2243041	313204	490613	602158	25.0 625	50.0 1250	125	200	250
4-Chlorotoluene	DCB	Ave	14927 449399	31836 772367	96917	147089	177812	25.0 625	50.0 1250	125	200	250
tert-Butylbenzene	DCB	Ave	48108 1429341	101119 2370901	298481	478408	578295	25.0 625	50.0 1250	125	200	250
1,2,4-Trimethylbenzene	DCB	Ave	51308 1402953	105776 2223984	312666	487489	602903	25.0 625	50.0 1250	125	200	250
sec-Butylbenzene	DCB	Ave	66310 1845407	138339 2958348	399932	638815	798690	25.0 625	50.0 1250	125	200	250
1,3-Dichlorobenzene	DCB	Ave	23626 794168	51747 1351582	159503	248710	314017	25.0 625	50.0 1250	125	200	250
4-Isopropyltoluene	DCB	Ave	60351 1503159	114322 2435436	339411	526588	643604	25.0 625	50.0 1250	125	200	250
1,4-Dichlorobenzene	DCB	Ave	25042 757384	48097 1294276	142829	227993	295546	25.0 625	50.0 1250	125	200	250

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 130597

SDG No.:

Instrument ID: CHHP7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/13/2015 10:25 Calibration End Date: 01/13/2015 14:16 Calibration ID: 21192

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCB	Ave	44858 1303805	92565 2092362	279882	441968	552041	25.0 625	50.0 1250	125	200	250
1,2-Dichlorobenzene	DCB	Ave	19657 635869	36745 1067196	118218	195107	257492	25.0 625	50.0 1250	125	200	250
1,2-Dibromo-3-Chloropropane	DCB	Qua	145 49146	734 90970	5153	10358	14806	25.0 625	50.0 1250	125	200	250
1,2,4-Trichlorobenzene	DCB	Ave	5072 +++++	10664 +++++	29606	52170	87417	25.0 +++++	50.0 +++++	125	200	250
Hexachlorobutadiene	DCB	Ave	3542 +++++	6163 +++++	16453	29728	46562	25.0 +++++	50.0 +++++	125	200	250
Naphthalene	DCB	Ave	10236 +++++	17991 +++++	50349	93979	153898	25.0 +++++	50.0 +++++	125	200	250
1,2,3-Trichlorobenzene	DCB	Qua	3972 198639	6597 440303	20350	33090	57033	25.0 625	50.0 1250	125	200	250
Dibromofluoromethane (Surr)	FB	Ave	13695 382643	26315 649216	79324	119883	149250	25.0 625	50.0 1250	125	200	250
1,2-Dichloroethane-d4 (Surr)	FB	Ave	11378 391906	24680 691578	75134	118879	151433	25.0 625	50.0 1250	125	200	250
Toluene-d8 (Surr)	CBZ	Ave	39515 1169088	84170 1940796	263274	390961	484850	25.0 625	50.0 1250	125	200	250
4-Bromofluorobenzene (Surr)	CBZ	Ave	14992 483854	30469 807041	96165	154243	195495	25.0 625	50.0 1250	125	200	250

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Qua = Quadratic ISTD

Report Date: 17-Feb-2015 14:20:57 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Jan-2015 10:25:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0005249-003
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub1

Method: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Feb-2015 14:20:55 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: journetp Date: 13-Jan-2015 12:42:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.676	4.607	0.069	69	63207	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.408	7.417	-0.009	99	389958	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.474	10.465	0.009	85	95929	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.786	12.789	-0.003	96	131795	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.696	6.675	0.021	62	13695	25.0	29.0	M
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.043	7.211	-0.168	51	11378	25.0	24.9	M
$ 7 Toluene-d8 (Surr)	98	9.038	9.035	0.003	95	39515	25.0	27.9	
$ 8 4-Bromofluorobenzene (Surr	95	11.642	11.639	0.003	86	14992	25.0	27.3	
10 Dichlorodifluoromethane	85	1.982	1.905	0.077	1	9893	25.0	18.9	M
11 Chloromethane	50	1.982	2.027	-0.045	2	11067	25.0	18.9	M
12 Vinyl chloride	62	2.152	2.136	0.016	1	10449	25.0	22.0	M
13 Butadiene	39	2.219	2.173	0.046	22	15675	25.0	29.7	M
14 Bromomethane	94	2.486	2.508	-0.022	21	15772	25.0	37.0	M
15 Chloroethane	64	2.675	2.623	0.052	2	13522	25.0	48.0	
16 Trichlorofluoromethane	101	2.845	2.891	-0.046	68	31235	25.0	30.7	M
17 Dichlorofluoromethane	67	2.876	2.903	-0.027	69	31399	25.0	30.8	M
18 Ethyl ether	59	3.356	3.353	0.003	65	8978	25.0	29.6	
19 Acrolein	56	3.502	3.505	-0.003	64	23115	500.0	595.9	M
20 1,1-Dichloroethene	96	3.612	3.548	0.064	1	13553	25.0	25.7	M
21 1,1,2-Trichloro-1,2,2-trif	101	3.709	3.657	0.052	1	18395	25.0	29.4	M
22 Acetone	43	3.807	3.773	0.034	32	2382	25.0	34.5	M
23 Iodomethane	142	3.782	3.773	0.009	77	29159	25.0	29.1	M
24 Carbon disulfide	76	3.837	3.828	0.009	27	48115	25.0	28.8	M
26 3-Chloro-1-propene	76	4.208	4.162	0.046	1	8375	25.0	23.5	M
28 Methyl acetate	43	4.281	4.278	0.003	55	25670	125.0	137.7	M
29 Methylene Chloride	84	4.397	4.375	0.022	18	16659	25.0	31.7	M
30 trans-1,2-Dichloroethene	96	4.792	4.746	0.046	54	13163	25.0	23.4	M
31 Acrylonitrile	53	4.798	4.777	0.021	71	21738	250.0	269.3	M
32 2-Methyl-2-propanol	59	4.841	4.831	0.010	1	3006	250.0	213.2	M
33 Methyl tert-butyl ether	73	4.865	4.850	0.015	61	31656	25.0	27.8	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Hexane	57	5.163	5.160	0.003	75	16779	25.0	26.1	
35 Vinyl acetate	43	5.163	5.166	-0.003	65	13858	25.0	53.3	M
36 1,1-Dichloroethane	63	5.358	5.349	0.009	9	22031	25.0	25.9	M
41 cis-1,2-Dichloroethene	96	6.112	6.091	0.021	54	14973	25.0	26.5	M
42 2,2-Dichloropropane	77	6.100	6.097	0.003	48	23553	25.0	28.4	M
43 2-Butanone (MEK)	43	6.197	6.170	0.027	21	3085	25.0	26.7	
46 Chlorobromomethane	128	6.386	6.395	-0.009	39	4225	25.0	15.8	M
48 Tetrahydrofuran	42	6.453	6.450	0.003	1	2844	50.0	51.4	M
49 Chloroform	83	6.489	6.498	-0.009	94	21850	25.0	24.8	M
50 1,1,1-Trichloroethane	97	6.672	6.681	-0.009	95	26557	25.0	29.2	M
51 Isobutyl alcohol	41	6.739	6.723	0.016	79	15696	625.0	762.1	M
52 Cyclohexane	56	6.745	6.729	0.016	72	20960	25.0	27.7	M
53 Carbon tetrachloride	117	6.860	6.857	0.003	95	23703	25.0	26.8	M
54 1,1-Dichloropropene	75	6.879	6.863	0.016	88	16972	25.0	23.0	M
55 Benzene	78	7.098	7.088	0.010	96	46845	25.0	27.4	
56 1,2-Dichloroethane	62	7.128	7.131	-0.003	40	13794	25.0	26.9	M
59 n-Heptane	43	7.402	7.405	-0.003	39	16142	25.0	28.4	M
60 Trichloroethene	130	7.803	7.788	0.015	92	14396	25.0	25.1	M
63 Methylcyclohexane	83	7.986	7.983	0.003	71	25773	25.0	29.1	M
64 1,2-Dichloropropane	63	8.035	8.025	0.010	57	9045	25.0	26.6	
65 Dibromomethane	93	8.156	8.153	0.003	1	6814	25.0	27.7	M
67 1,4-Dioxane	88	8.138	8.177	-0.039	1	83	500.0	1152.6	M
68 Dichlorobromomethane	83	8.308	8.311	-0.003	93	14498	25.0	24.0	
71 cis-1,3-Dichloropropene	75	8.777	8.767	0.010	87	14345	25.0	23.9	
72 4-Methyl-2-pentanone (MIBK	43	8.935	8.932	0.003	41	5511	25.0	24.9	
73 Toluene	91	9.105	9.102	0.003	97	44831	25.0	28.0	
74 trans-1,3-Dichloropropene	75	9.330	9.327	0.003	94	10388	25.0	23.1	
75 Ethyl methacrylate	69	9.428	9.418	0.010	84	9337	25.0	29.8	
76 1,1,2-Trichloroethane	97	9.507	9.510	-0.003	89	6031	25.0	22.7	
77 Tetrachloroethene	164	9.653	9.650	0.003	91	10525	25.0	27.6	
78 1,3-Dichloropropane	76	9.677	9.668	0.009	88	11404	25.0	27.5	
79 2-Hexanone	43	9.774	9.765	0.009	17	2687	25.0	36.1	
81 Chlorodibromomethane	129	9.908	9.893	0.015	88	11654	25.0	26.6	
82 Ethylene Dibromide	107	10.018	10.015	0.003	89	7515	25.0	26.5	
83 Chlorobenzene	112	10.492	10.495	-0.003	95	33573	25.0	29.3	
84 1,1,1,2-Tetrachloroethane	131	10.577	10.574	0.003	92	13254	25.0	27.8	
85 Ethylbenzene	106	10.608	10.605	0.003	98	18096	25.0	29.0	
86 m-Xylene & p-Xylene	106	10.730	10.720	0.010	98	24226	25.0	30.2	
88 o-Xylene	106	11.119	11.116	0.003	95	23540	25.0	29.1	
89 Styrene	104	11.131	11.128	0.003	84	35152	25.0	29.0	M
90 Bromoform	173	11.314	11.310	0.004	85	4562	25.0	20.4	
91 Isopropylbenzene	105	11.484	11.481	0.003	95	64795	25.0	28.1	
93 1,1,2,2-Tetrachloroethane	83	11.782	11.773	0.009	92	7645	25.0	28.6	
94 Bromobenzene	156	11.794	11.785	0.009	93	13322	25.0	25.5	
95 1,2,3-Trichloropropane	110	11.818	11.821	-0.003	57	2866	25.0	28.3	
96 trans-1,4-Dichloro-2-buten	53	11.849	11.827	0.022	1	1757	25.0	30.7	M
97 N-Propylbenzene	120	11.885	11.888	-0.003	98	17787	25.0	25.7	
98 2-Chlorotoluene	126	11.977	11.980	-0.003	96	14373	25.0	24.0	
99 1,3,5-Trimethylbenzene	105	12.062	12.059	0.003	93	57014	25.0	29.4	
100 4-Chlorotoluene	126	12.086	12.083	0.003	91	14927	25.0	25.7	
101 tert-Butylbenzene	119	12.390	12.387	0.003	92	48108	25.0	26.1	
103 1,2,4-Trimethylbenzene	105	12.439	12.436	0.003	96	51308	25.0	27.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
104 sec-Butylbenzene	105	12.609	12.606	0.003	95	66310	25.0	26.9	
105 1,3-Dichlorobenzene	146	12.725	12.722	0.003	93	23626	25.0	24.1	
106 4-Isopropyltoluene	119	12.749	12.752	-0.003	96	60351	25.0	29.2	
107 1,4-Dichlorobenzene	146	12.810	12.807	0.003	91	25042	25.0	27.0	
110 n-Butylbenzene	91	13.169	13.160	0.009	96	44858	25.0	26.3	
111 1,2-Dichlorobenzene	146	13.199	13.190	0.009	93	19657	25.0	25.7	
112 1,2-Dibromo-3-Chloropropan	157	14.015	13.975	0.040	1	145	25.0	53.1	
114 1,2,4-Trichlorobenzene	180	14.812	14.802	0.010	88	5072	25.0	23.3	M
115 Hexachlorobutadiene	225	14.970	14.973	-0.003	80	3542	25.0	27.9	
116 Naphthalene	128	15.067	15.058	0.009	27	10236	25.0	26.3	
117 1,2,3-Trichlorobenzene	180	15.310	15.307	0.003	22	3972	25.0	57.9	
S 130 1,2-Dichloroethene, Total	96				0		50.0	49.9	
S 129 Xylenes, Total	106				0		50.0	59.3	
S 131 1,3-Dichloropropene, Total	1				0		50.0	47.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00027	Amount Added:	10.00	Units: uL
voaWAcropri R_00006	Amount Added:	20.00	Units: uL
voaWVApri Res_00001	Amount Added:	1.00	Units: uL
VOA8260VOAPRI_00095	Amount Added:	1.00	Units: uL
VOA8260SURR_00017	Amount Added:	1.00	Units: uL

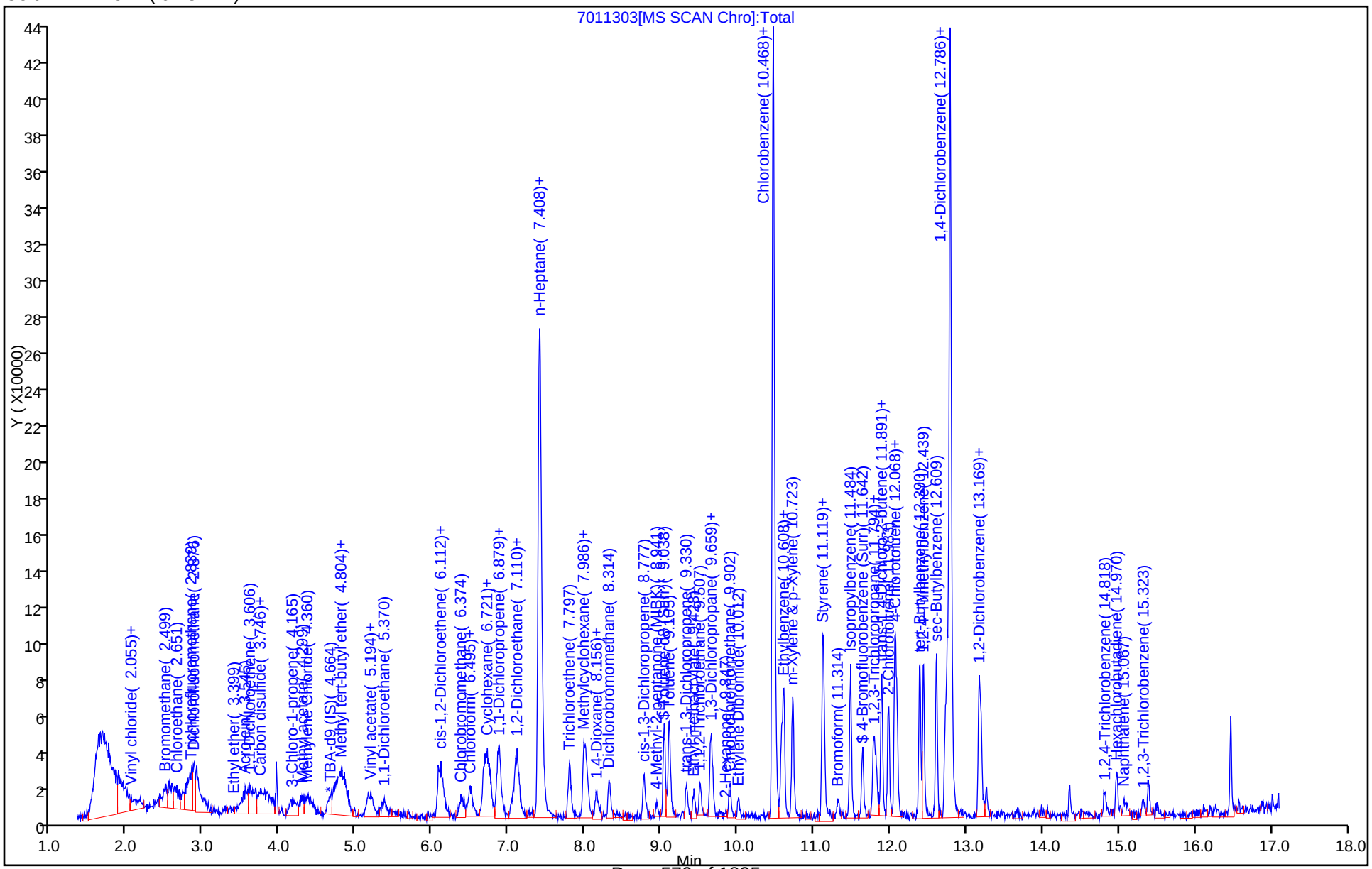
Report Date: 17-Feb-2015 14:20:57 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D

Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

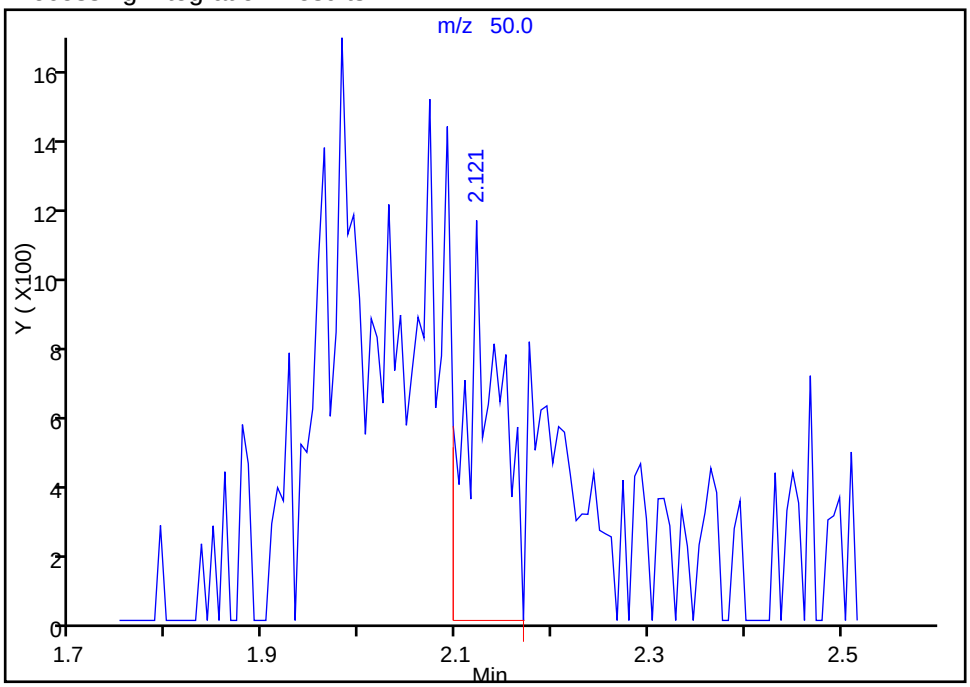
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

11 Chloromethane, CAS: 74-87-3

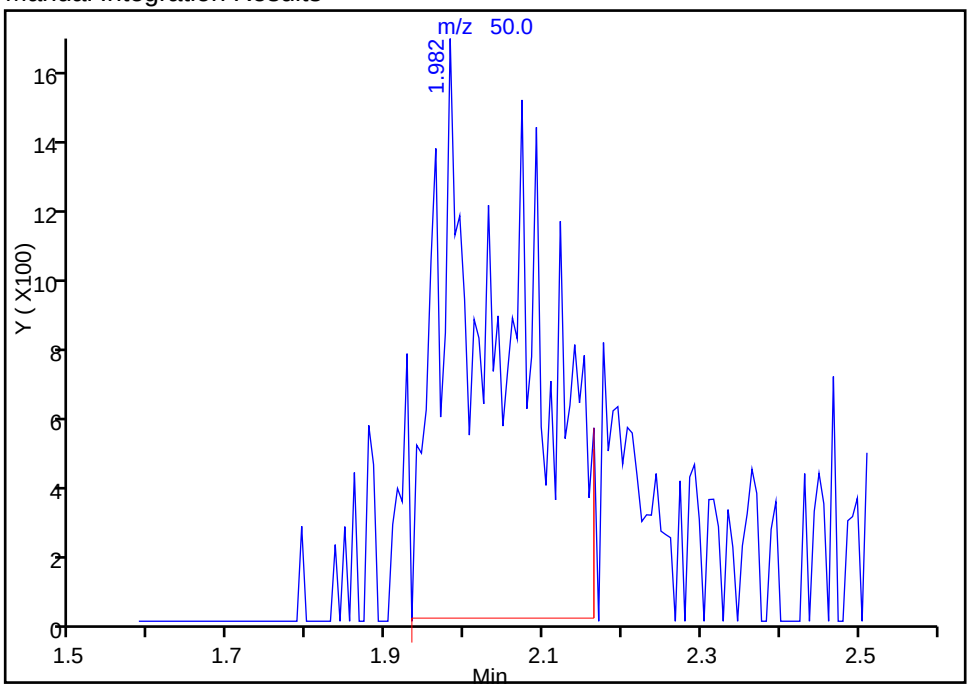
Processing Integration Results

RT: 2.12
Area: 2704
Amount: 22.892076
Amount Units: ng



Manual Integration Results

RT: 1.98
Area: 11067
Amount: 18.873779
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

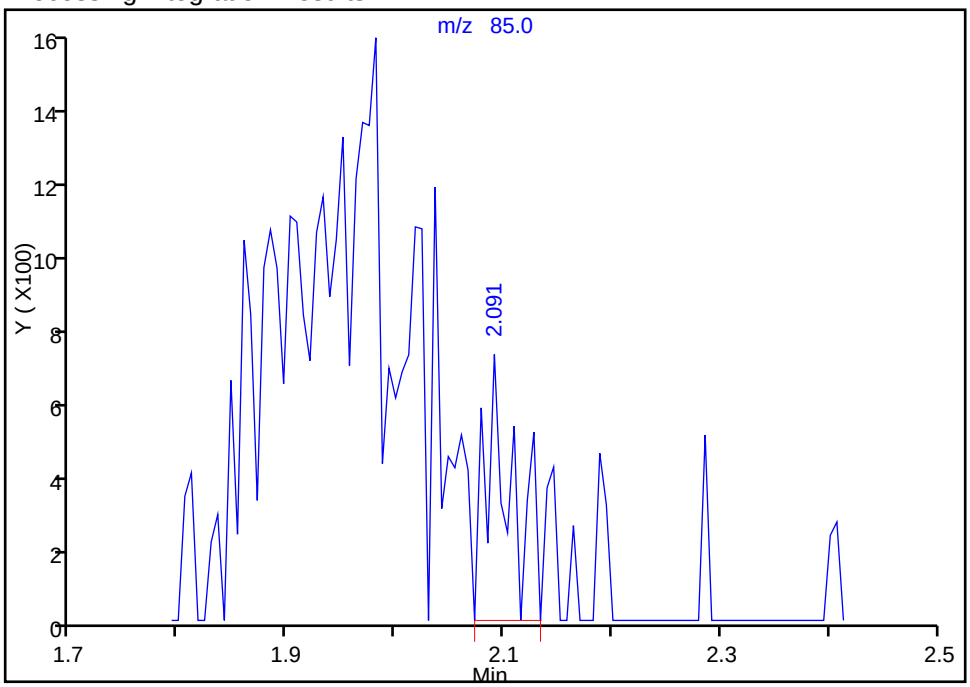
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

10 Dichlorodifluoromethane, CAS: 75-71-8

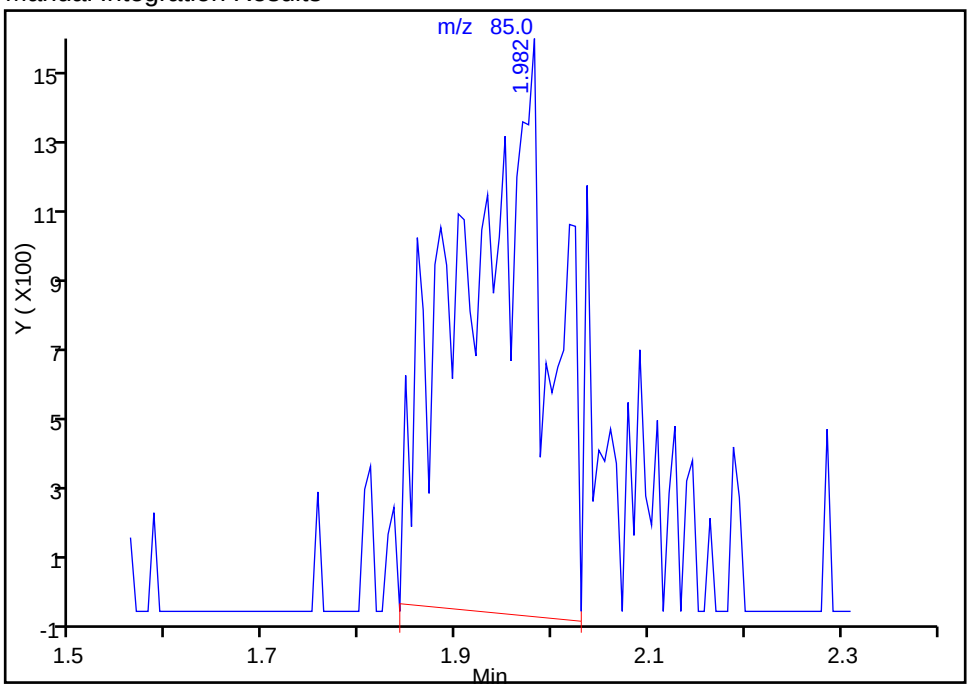
Processing Integration Results

RT: 2.09
Area: 1241
Amount: 4.511361
Amount Units: ng



Manual Integration Results

RT: 1.98
Area: 9893
Amount: 18.926119
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

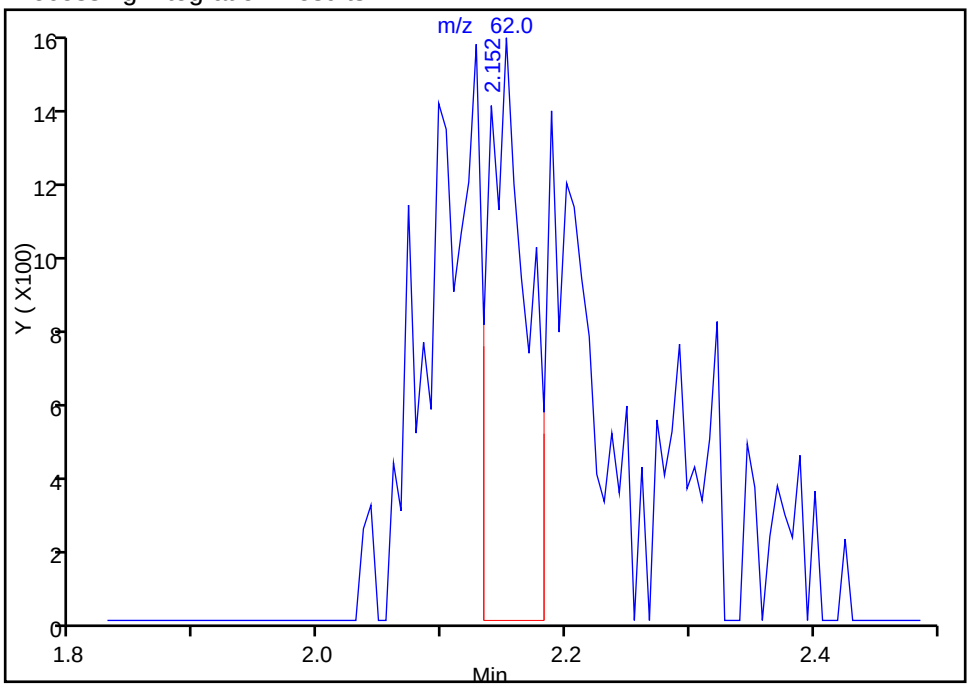
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

12 Vinyl chloride, CAS: 75-01-4

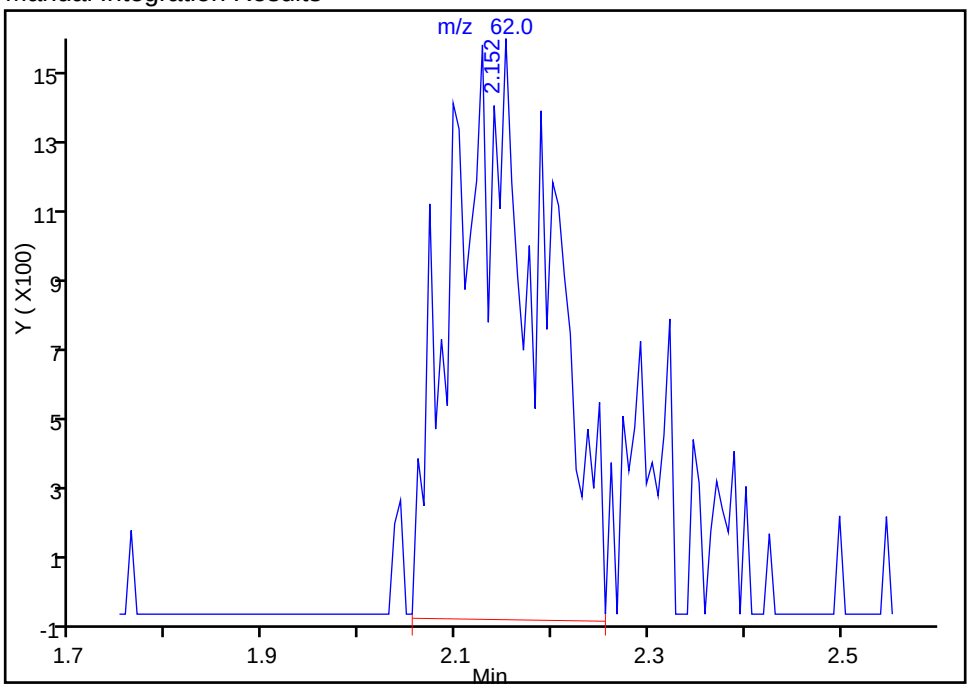
Processing Integration Results

RT: 2.15
Area: 3323
Amount: 11.364499
Amount Units: ng



Manual Integration Results

RT: 2.15
Area: 10449
Amount: 22.047305
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
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Manual Integration/User Assign Peak Report

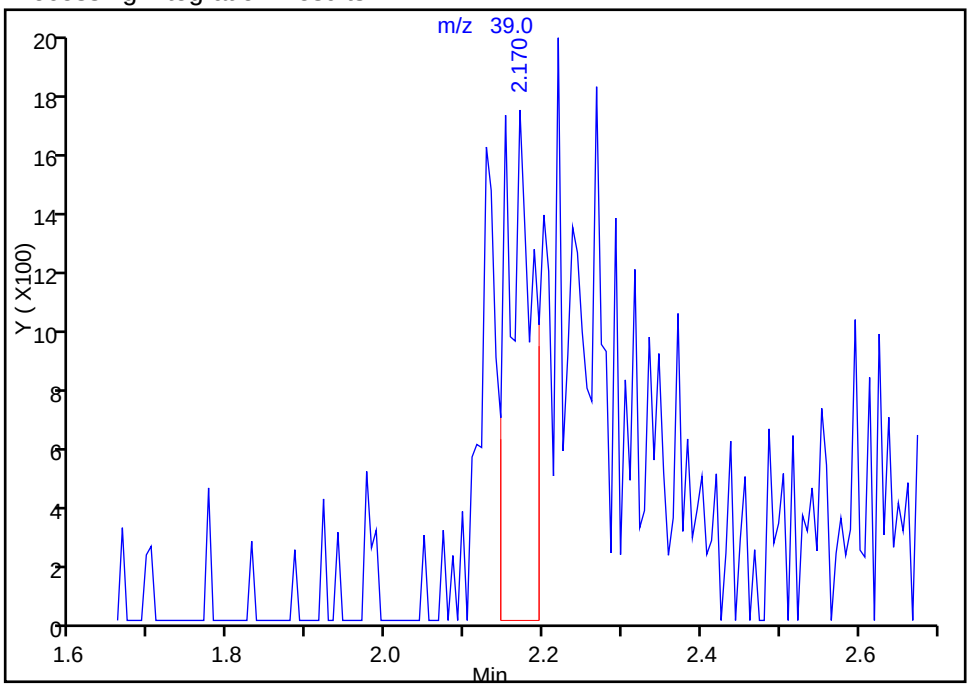
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

13 Butadiene, CAS: 106-99-0

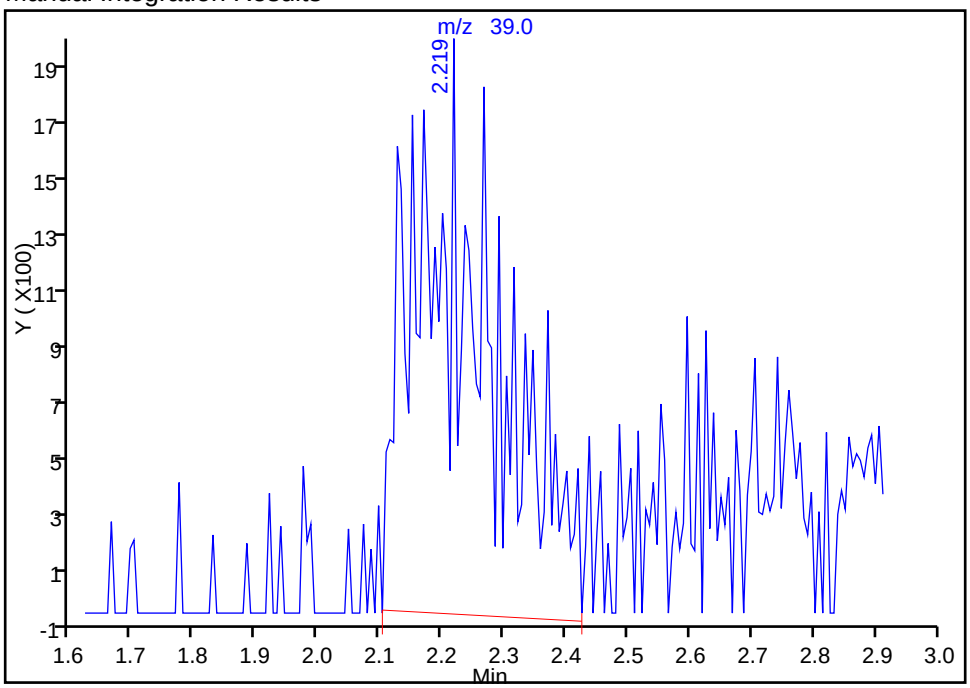
Processing Integration Results

RT: 2.17
Area: 3723
Amount: 12.376464
Amount Units: ng



Manual Integration Results

RT: 2.22
Area: 15675
Amount: 29.716229
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

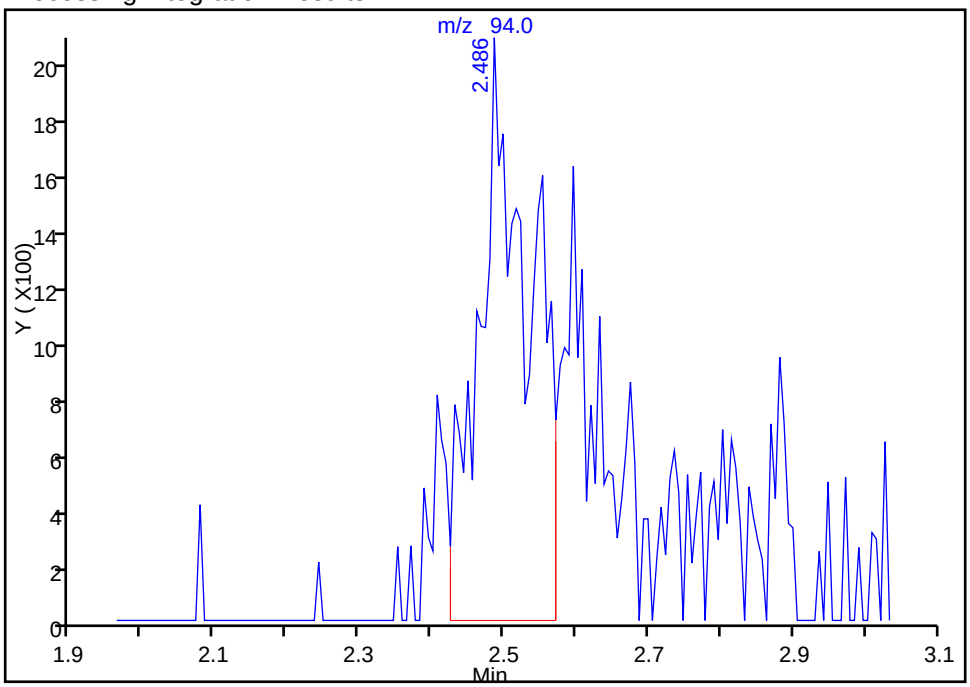
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

14 Bromomethane, CAS: 74-83-9

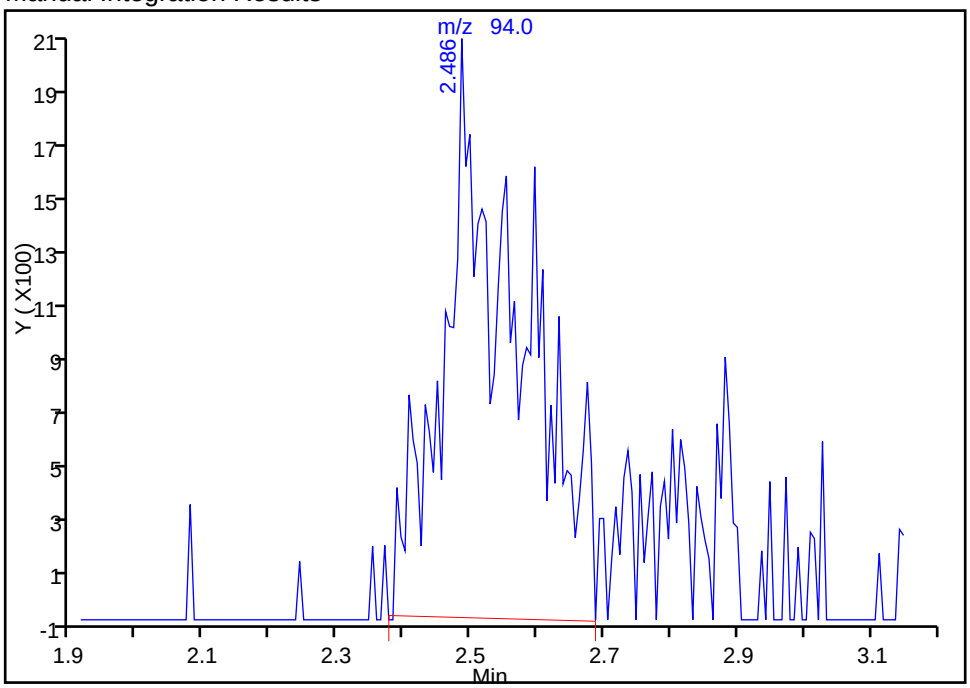
Processing Integration Results

RT: 2.49
Area: 9906
Amount: 26.513841
Amount Units: ng



Manual Integration Results

RT: 2.49
Area: 15772
Amount: 37.030587
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

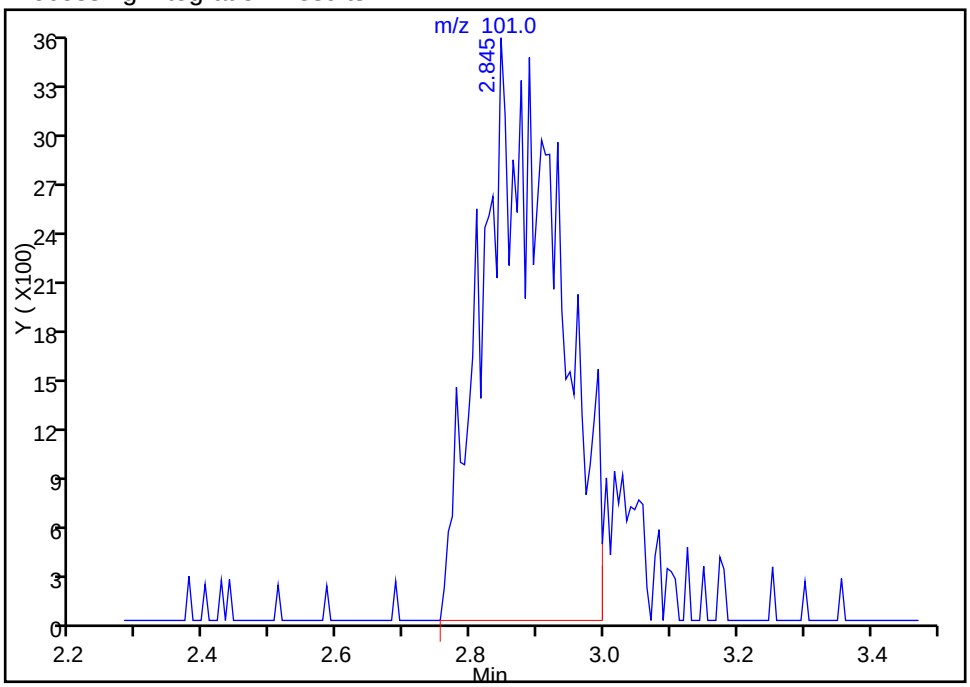
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

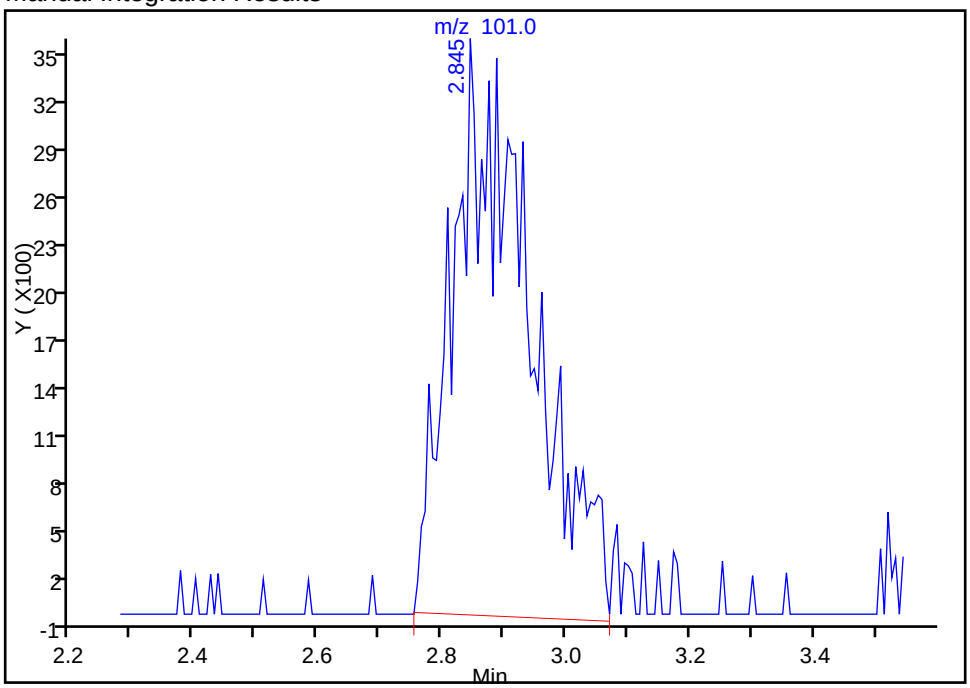
Processing Integration Results

RT: 2.85
Area: 28189
Amount: 27.775720
Amount Units: ng



Manual Integration Results

RT: 2.85
Area: 31235
Amount: 30.706356
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

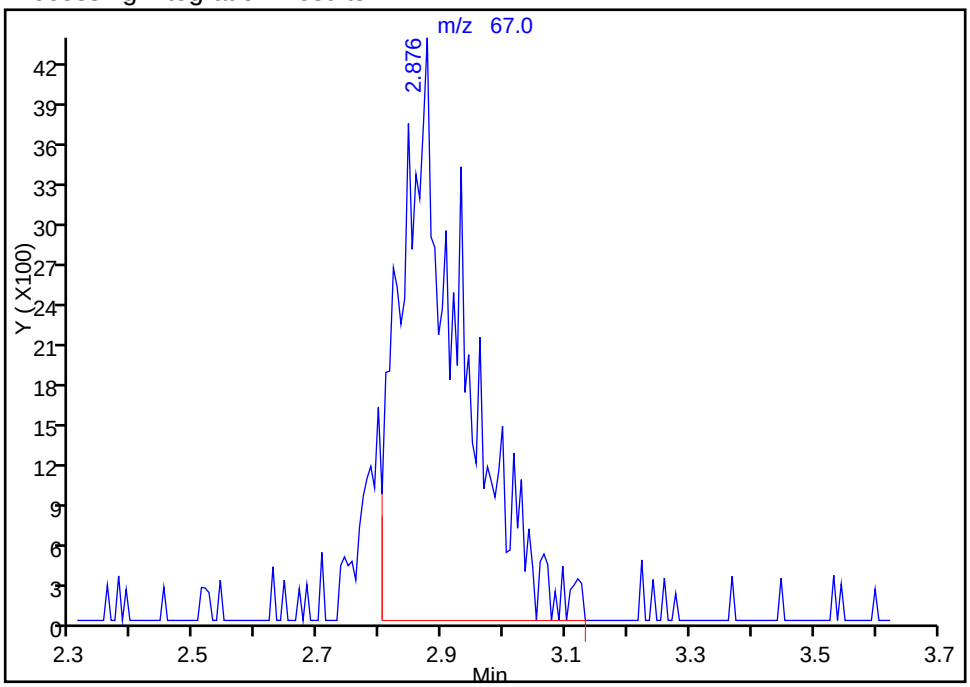
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

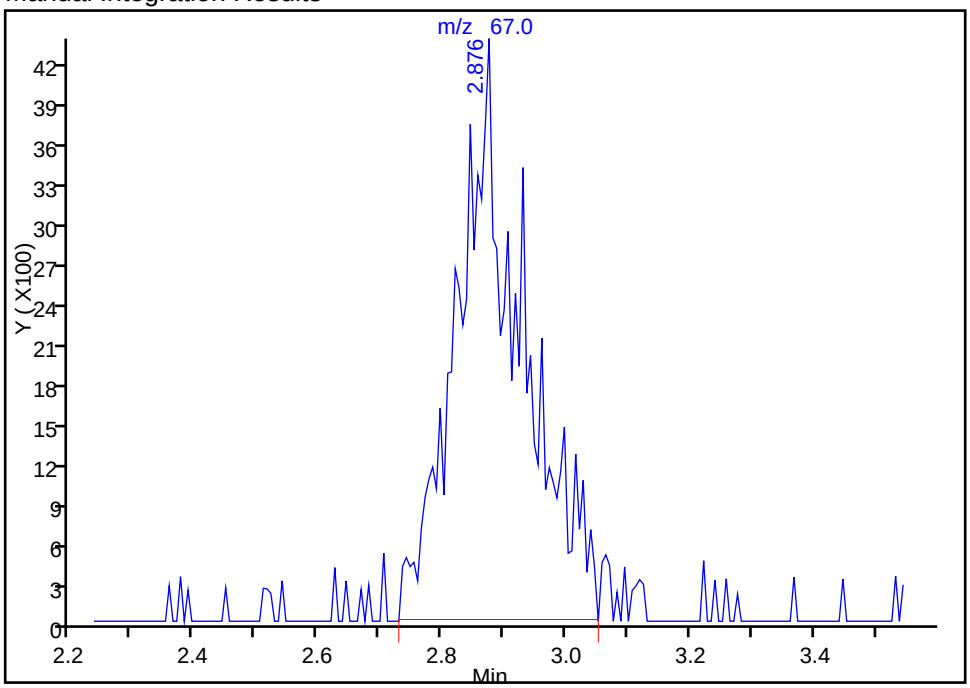
Processing Integration Results

RT: 2.88
Area: 29687
Amount: 28.240917
Amount Units: ng



Manual Integration Results

RT: 2.88
Area: 31399
Amount: 30.762519
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

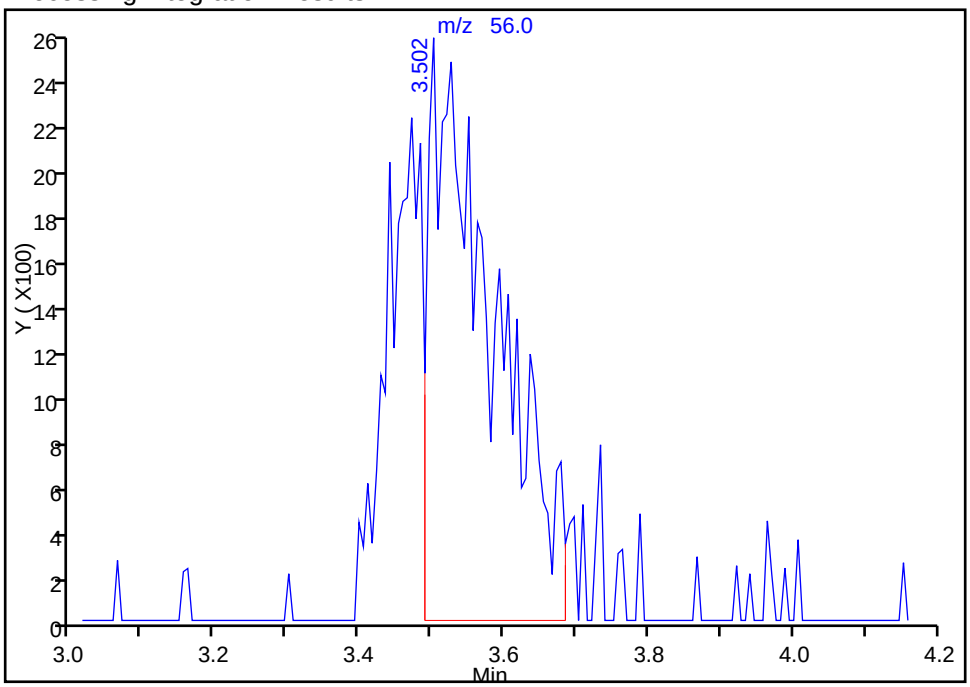
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Processing Integration Results

RT: 3.50
Area: 15661
Amount: 471.1640
Amount Units: ng



Manual Integration Results

RT: 3.50
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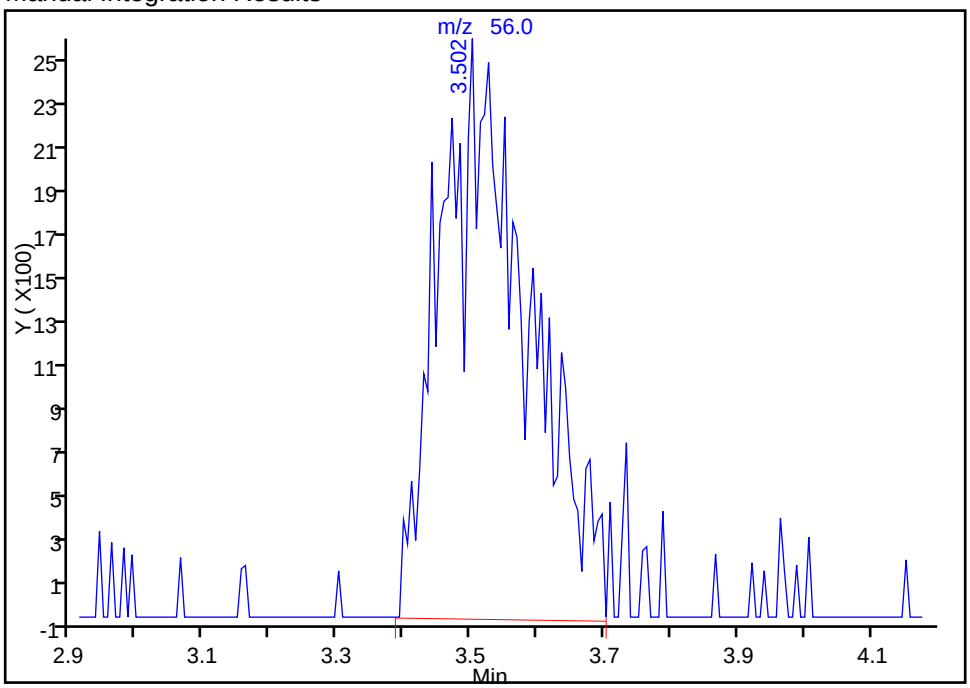
Amount: 595.9114
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

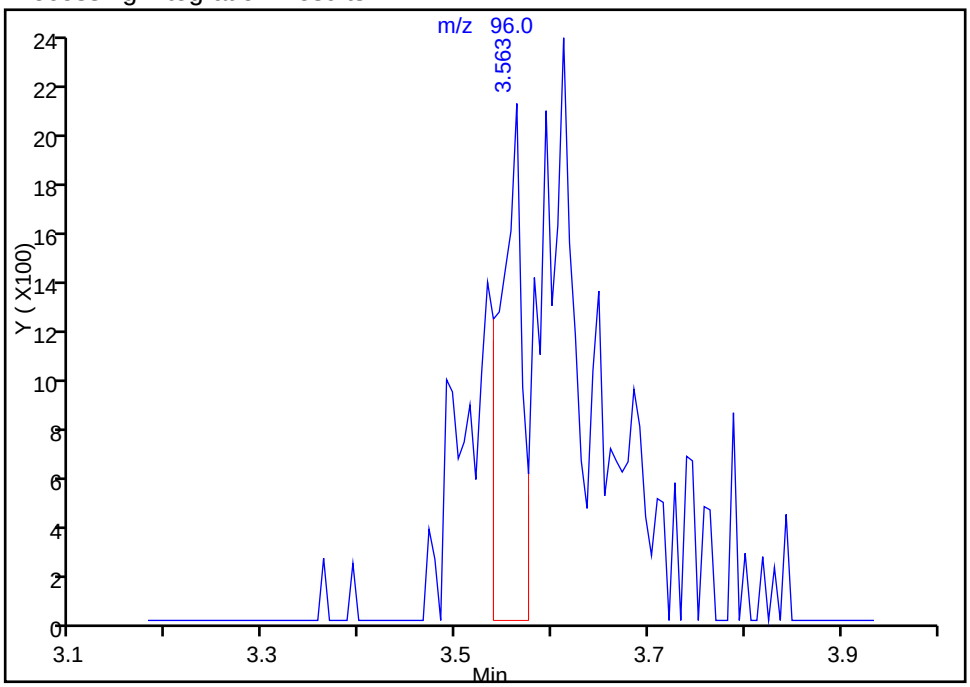
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Processing Integration Results

RT: 3.56
Area: 3289
Amount: 10.434507
Amount Units: ng



Manual Integration Results

RT: 3.61
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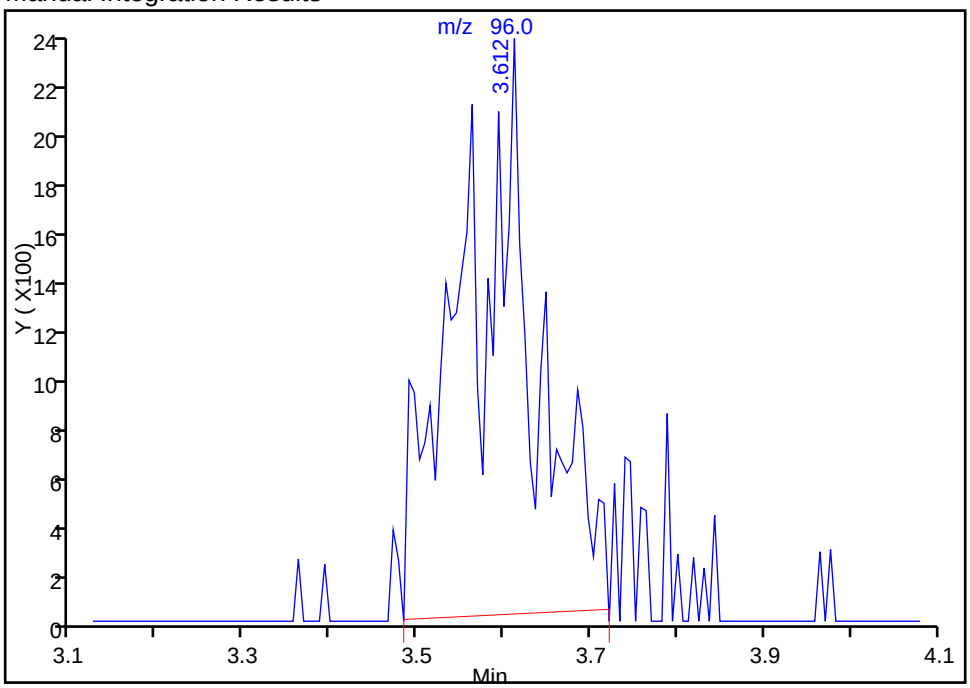
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

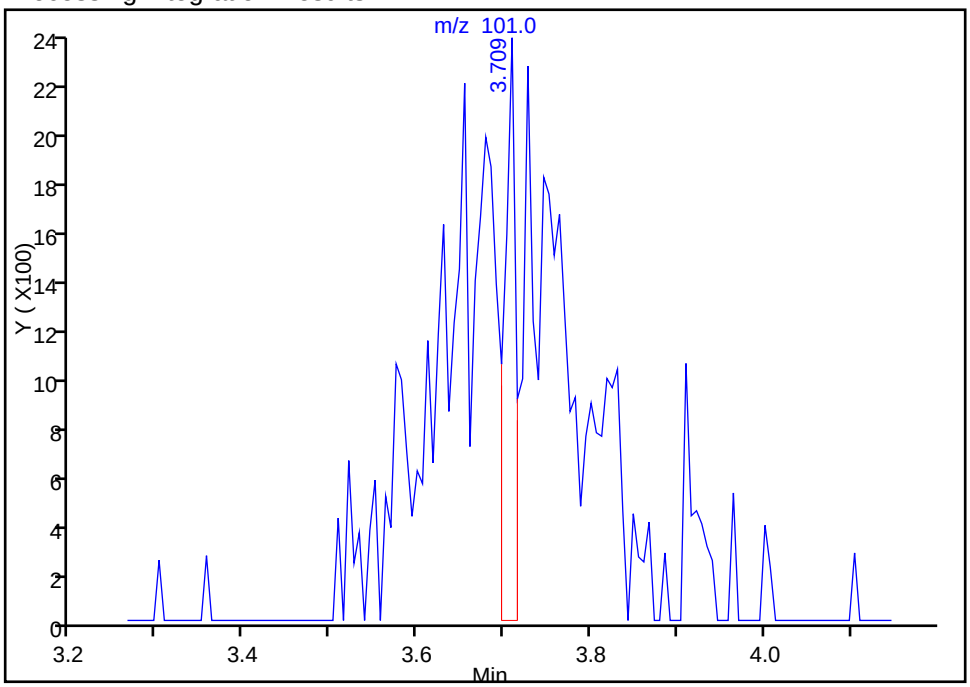
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Integration Results

RT: 3.71
Area: 2106
Amount: 6.569656
Amount Units: ng



Manual Integration Results

RT: 3.71
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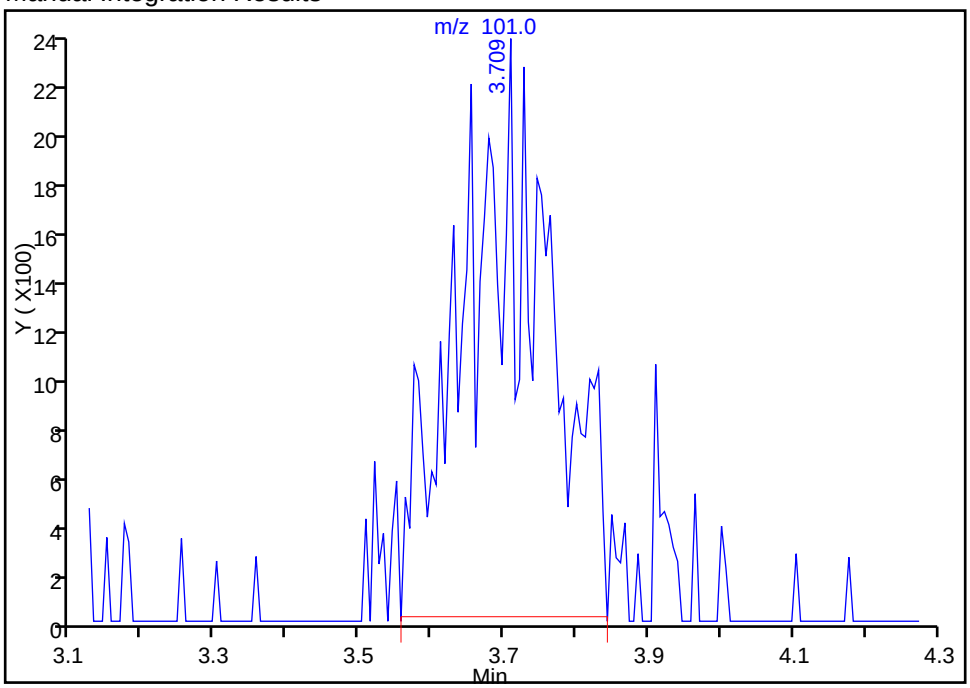
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Processing Integration Results

RT: 3.78
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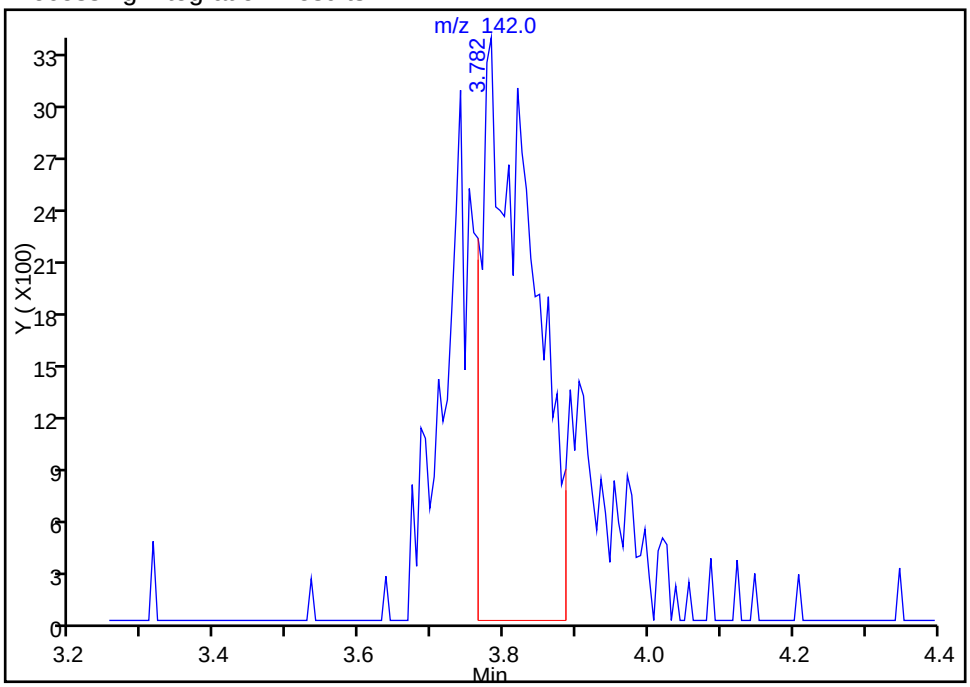
Amount: 20.205451
Amount Units: ng



Manual Integration Results

RT: 3.78
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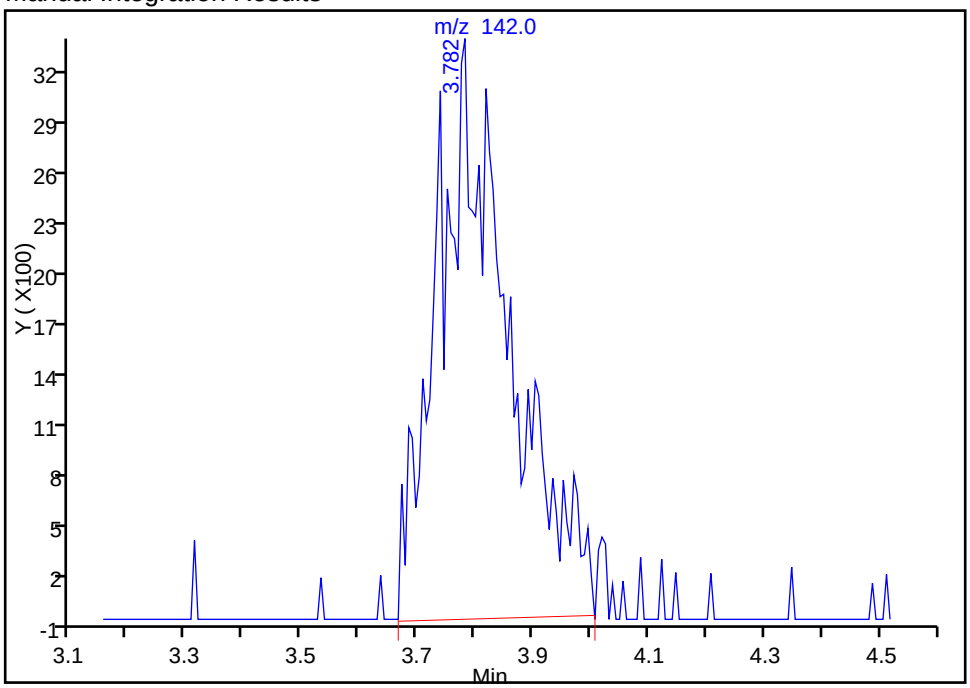
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

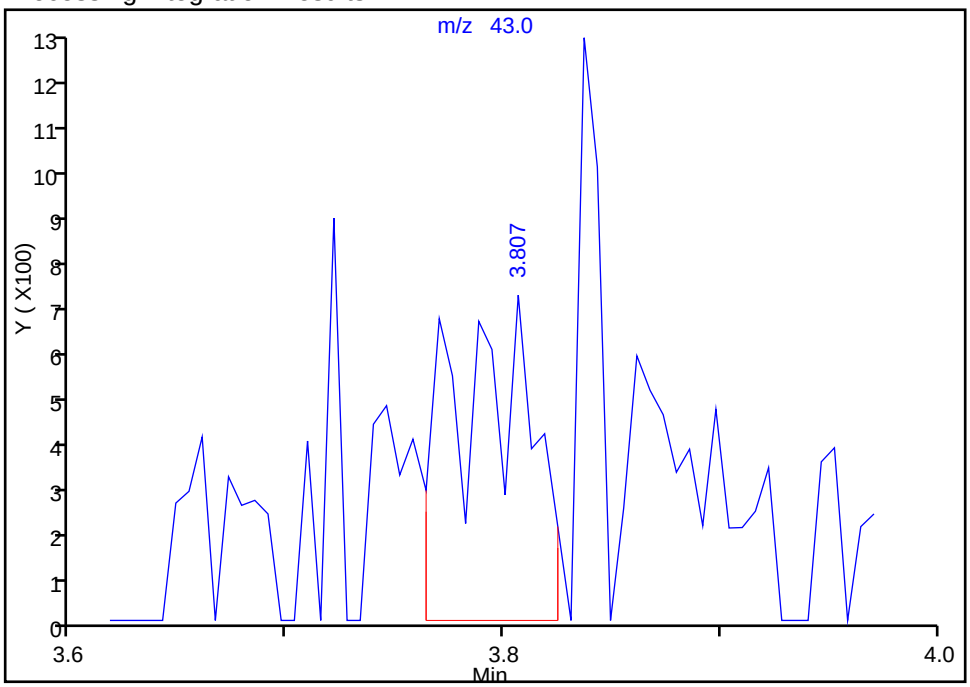
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

22 Acetone, CAS: 67-64-1

Processing Integration Results

RT: 3.81
Area: 1810
Amount: 22.834225
Amount Units: ng



Manual Integration Results

RT: 3.81
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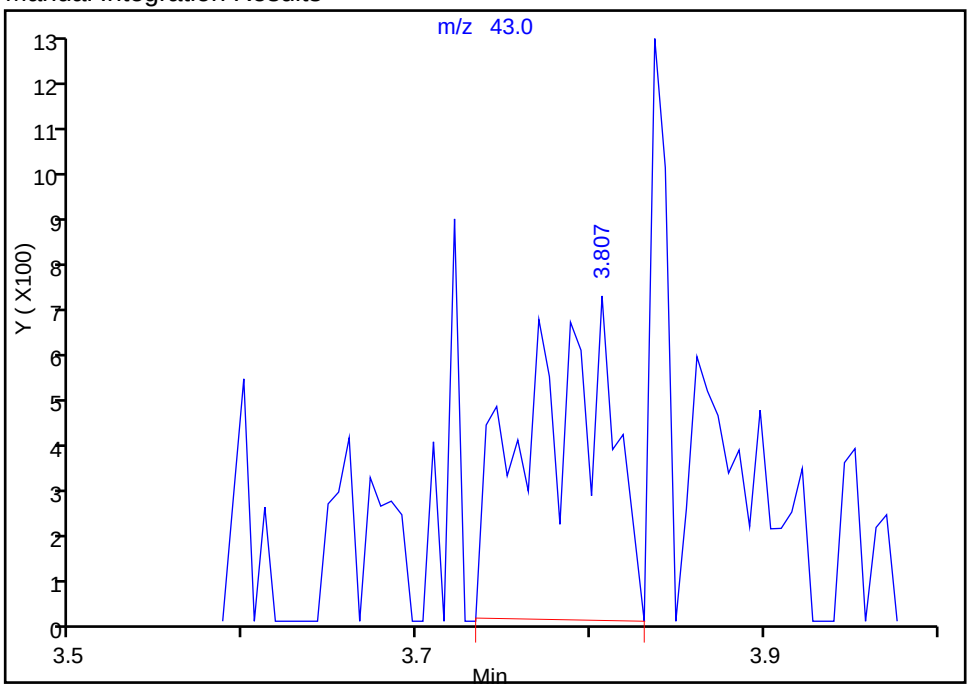
Amount: 34.528559
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

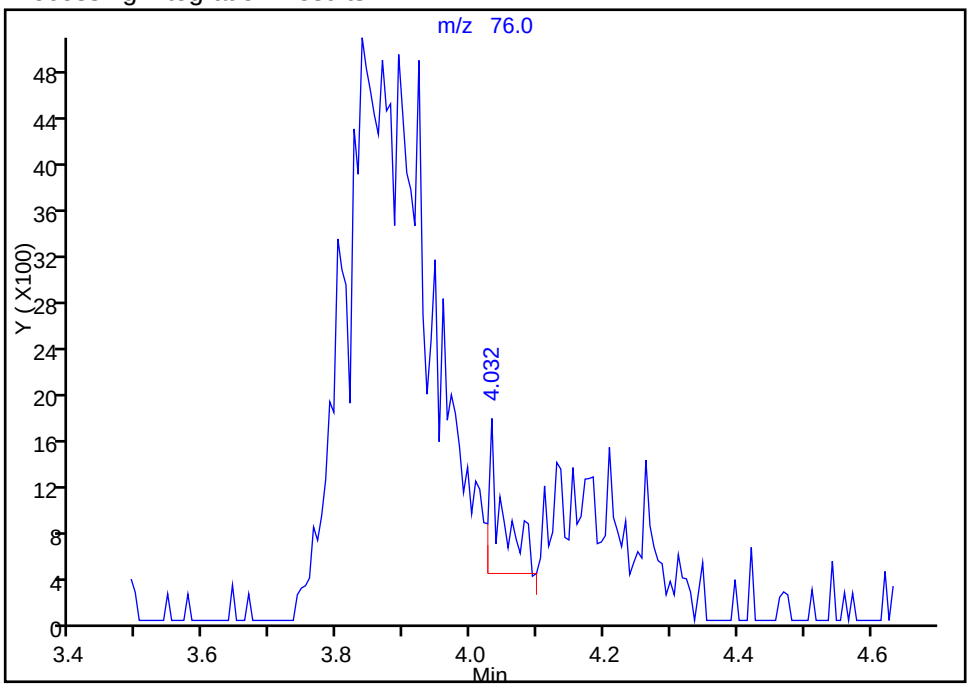
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

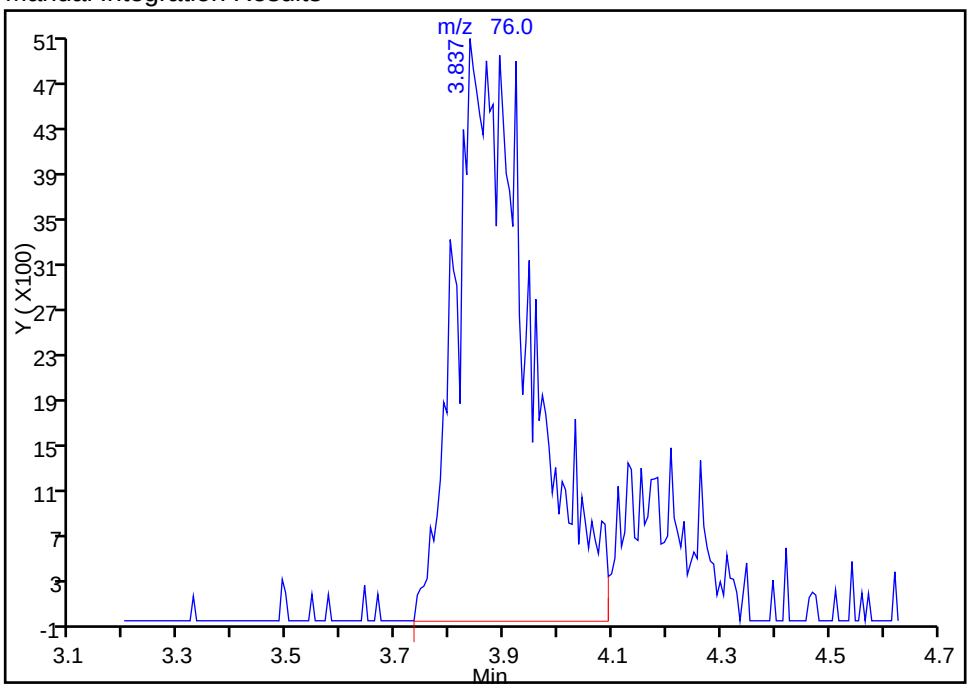
Processing Integration Results

RT: 4.03
Area: 1889
Amount: 1.923092
Amount Units: ng



Manual Integration Results

RT: 3.84
Area: 48115
Amount: 28.788682
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

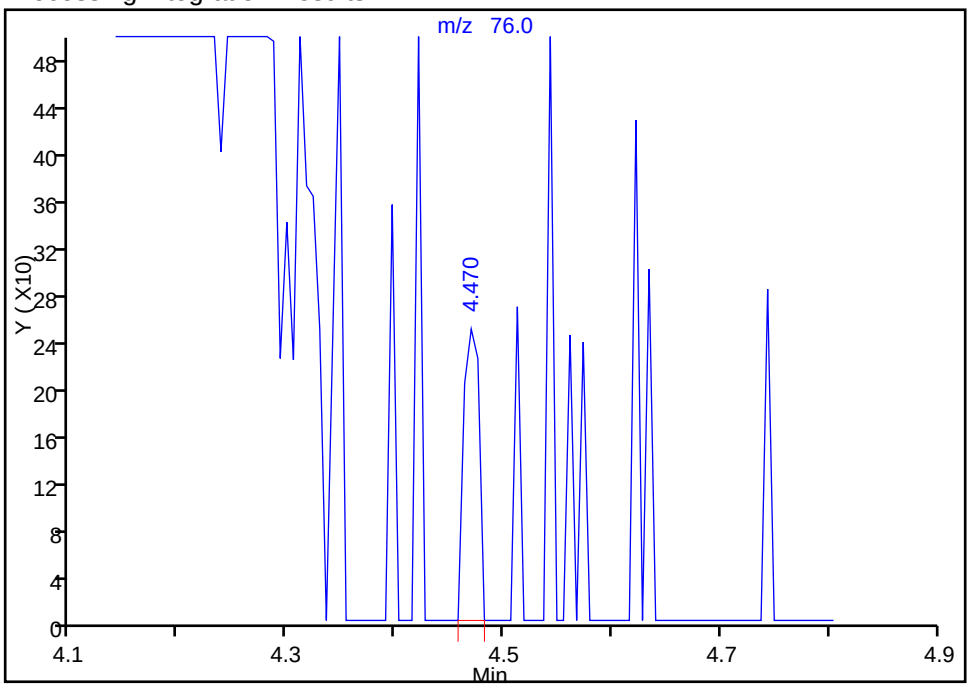
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

26 3-Chloro-1-propene, CAS: 107-05-1

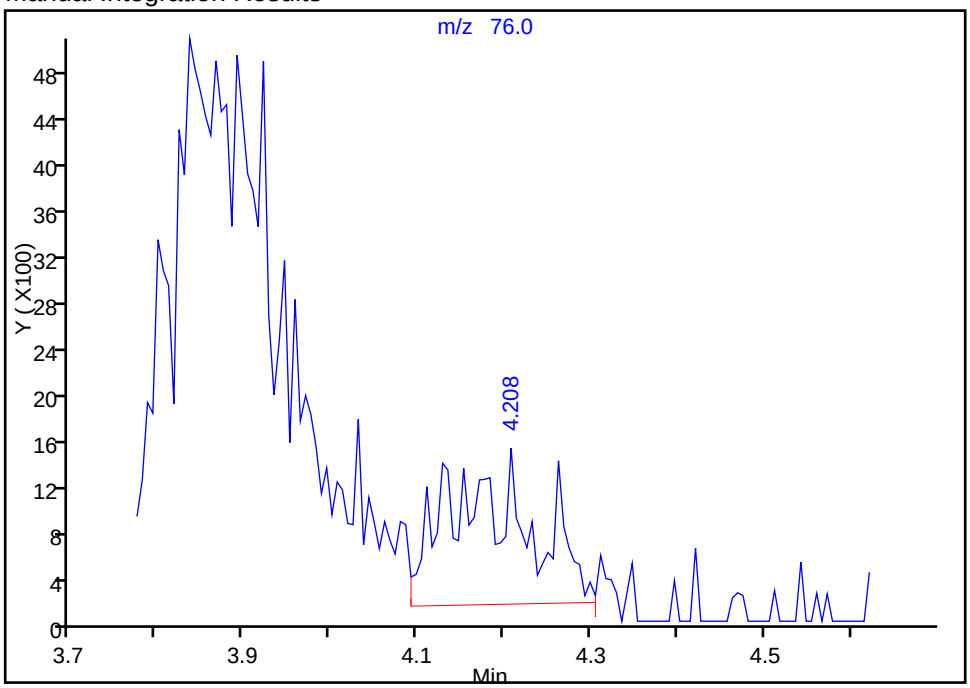
Processing Integration Results

RT: 4.47
Area: 246
Amount: 22.212491
Amount Units: ng



Manual Integration Results

RT: 4.21
Area: 8375
Amount: 23.501897
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:32:10
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

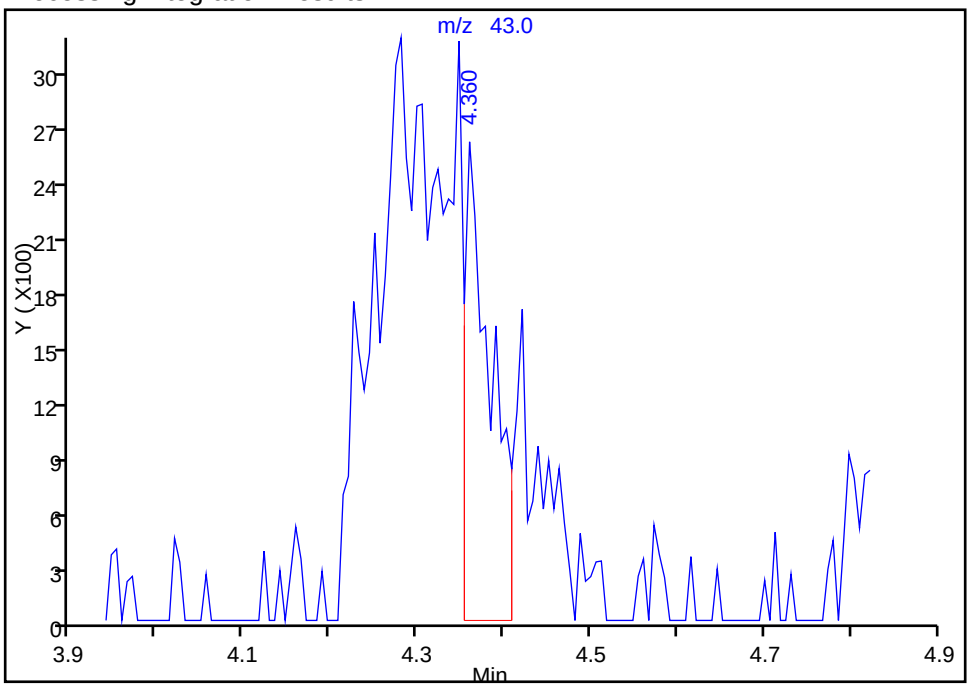
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

28 Methyl acetate, CAS: 79-20-9

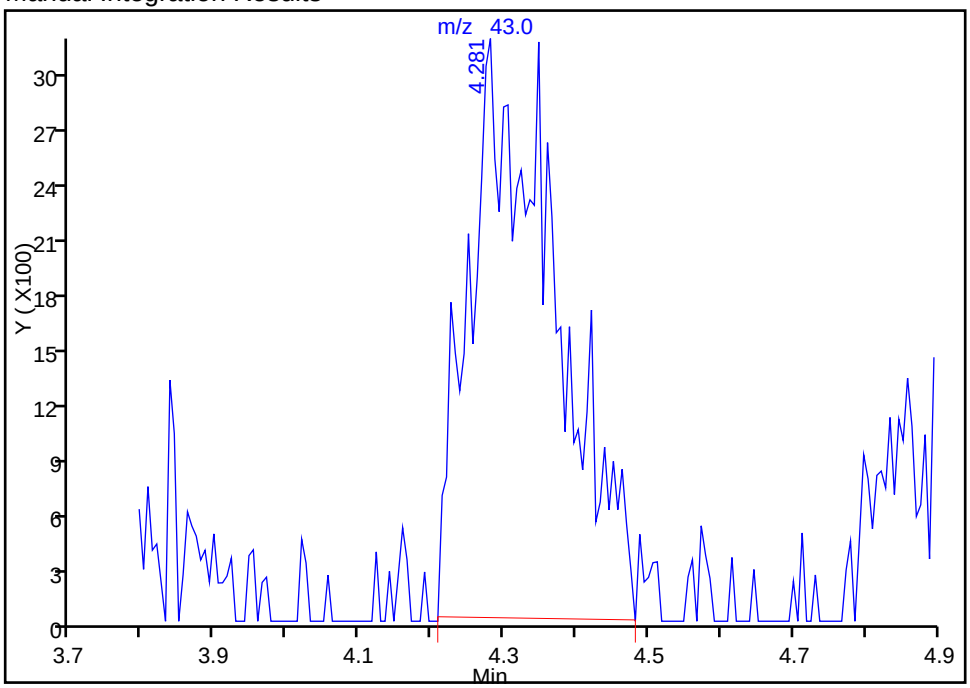
Processing Integration Results

RT: 4.36
Area: 5427
Amount: 50.297259
Amount Units: ng



Manual Integration Results

RT: 4.28
Area: 25670
Amount: 137.6999
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

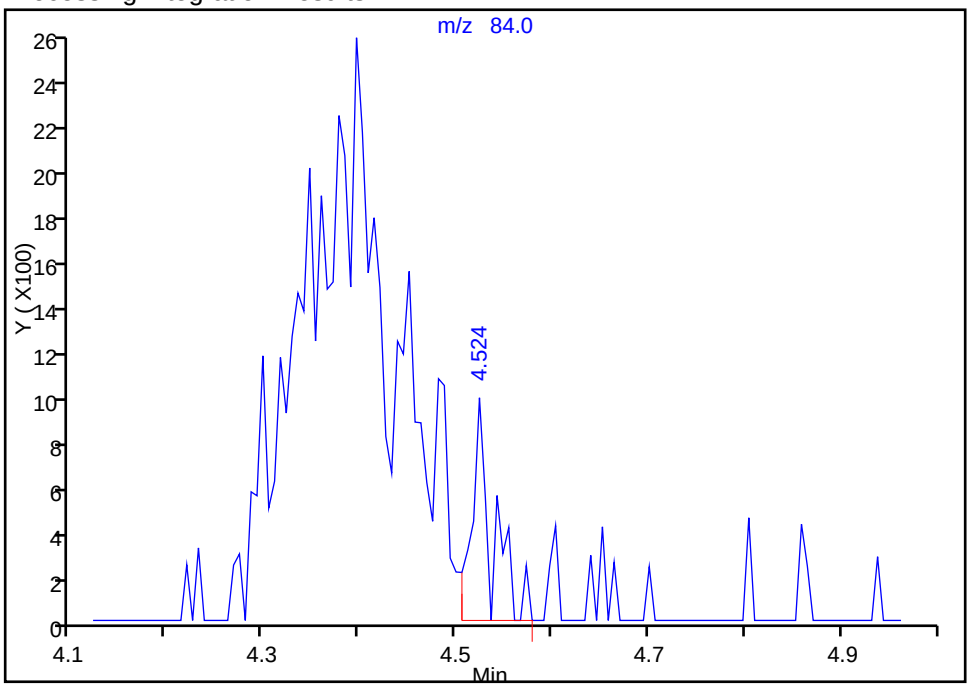
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

29 Methylene Chloride, CAS: 75-09-2

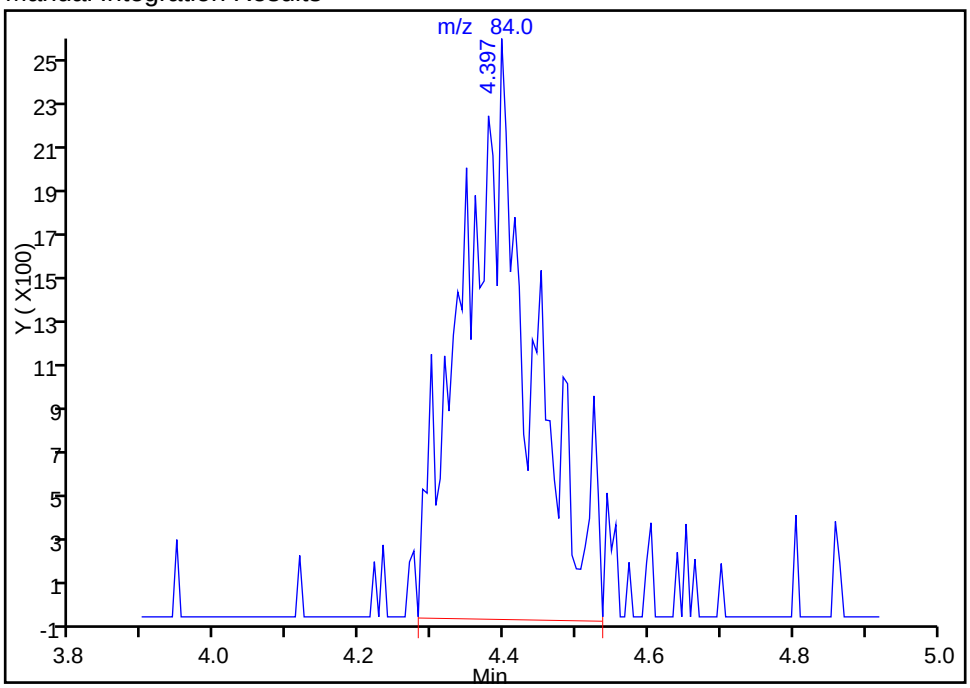
Processing Integration Results

RT: 4.52
Area: 1423
Amount: 30.928062
Amount Units: ng



Manual Integration Results

RT: 4.40
Area: 16659
Amount: 31.671942
Amount Units: ng



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Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

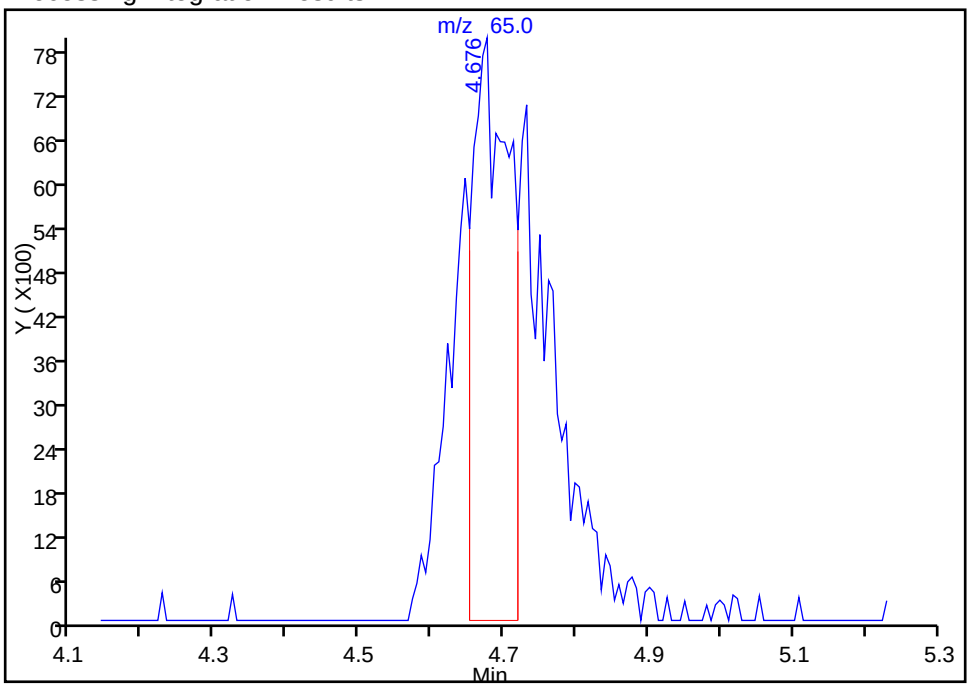
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

* 1 TBA-d9 (IS), CAS: 25725-11-5

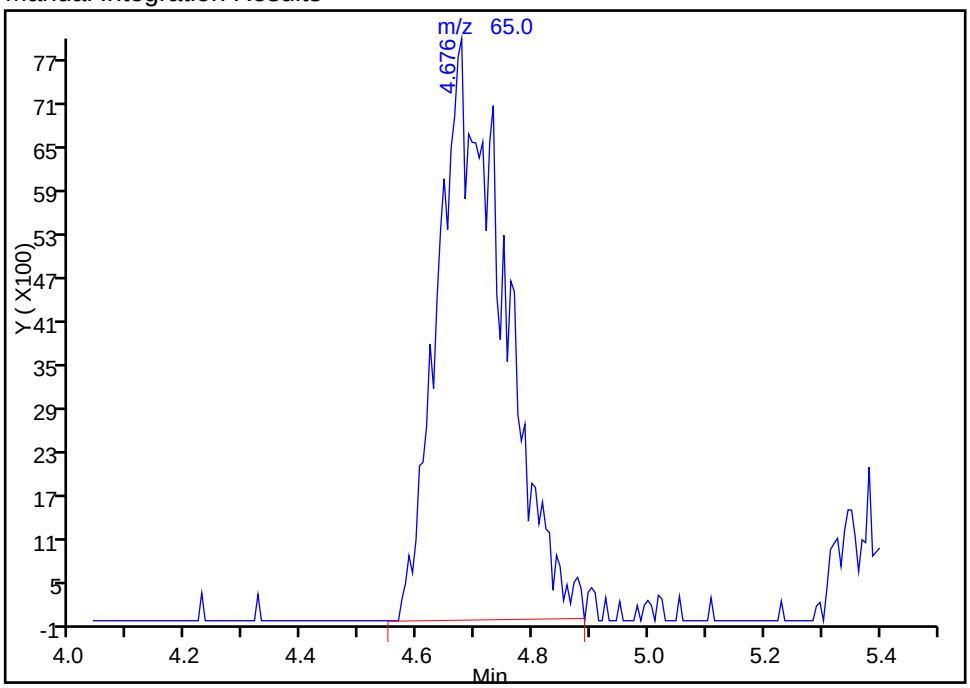
Processing Integration Results

RT: 4.68
Area: 28452
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.68
Area: 63207
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

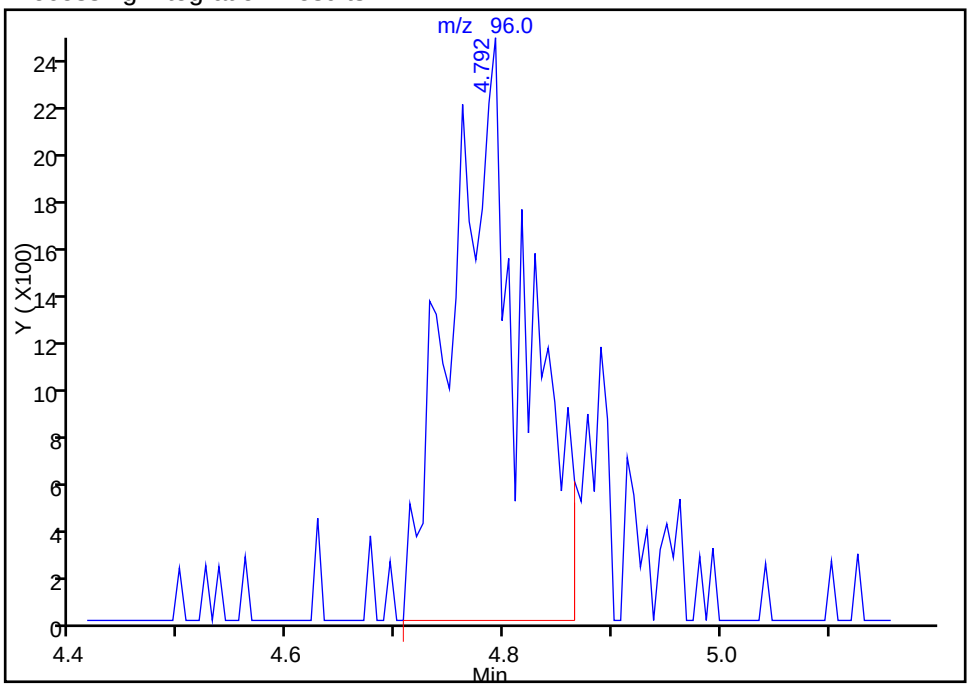
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

30 trans-1,2-Dichloroethene, CAS: 156-60-5

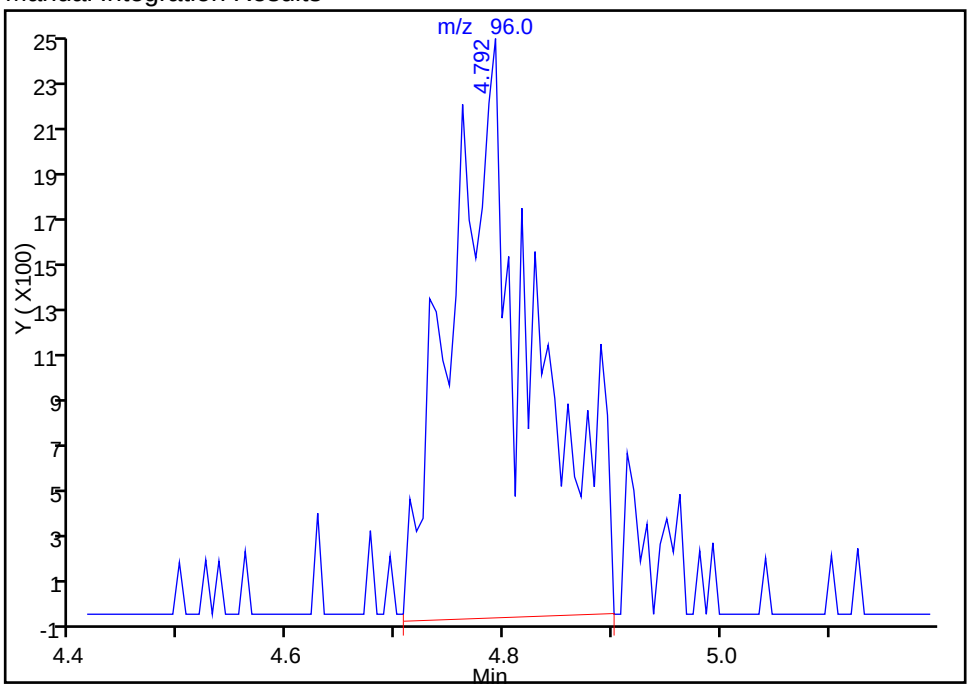
Processing Integration Results

RT: 4.79
Area: 11564
Amount: 22.704394
Amount Units: ng



Manual Integration Results

RT: 4.79
Area: 13163
Amount: 23.400426
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

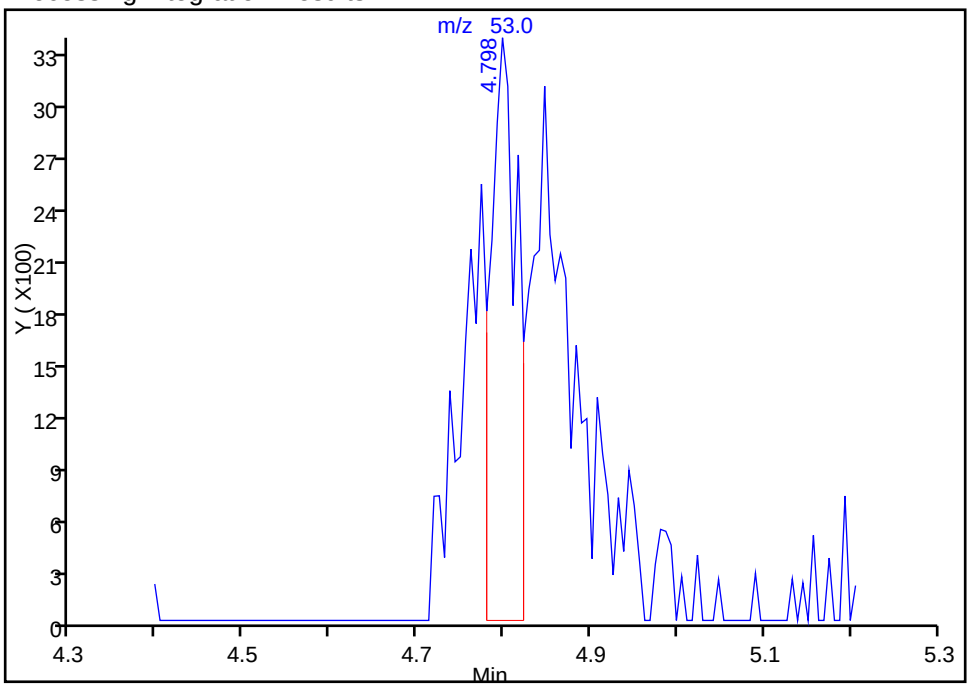
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

31 Acrylonitrile, CAS: 107-13-1

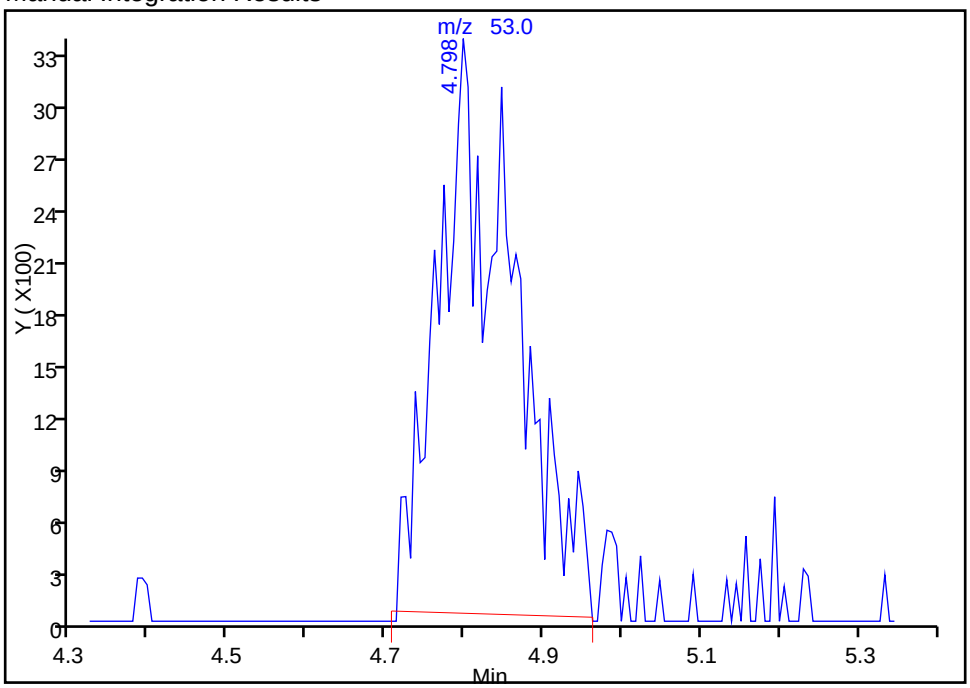
Processing Integration Results

RT: 4.80
Area: 7080
Amount: 134.7512
Amount Units: ng



Manual Integration Results

RT: 4.80
Area: 21738
Amount: 269.3360
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

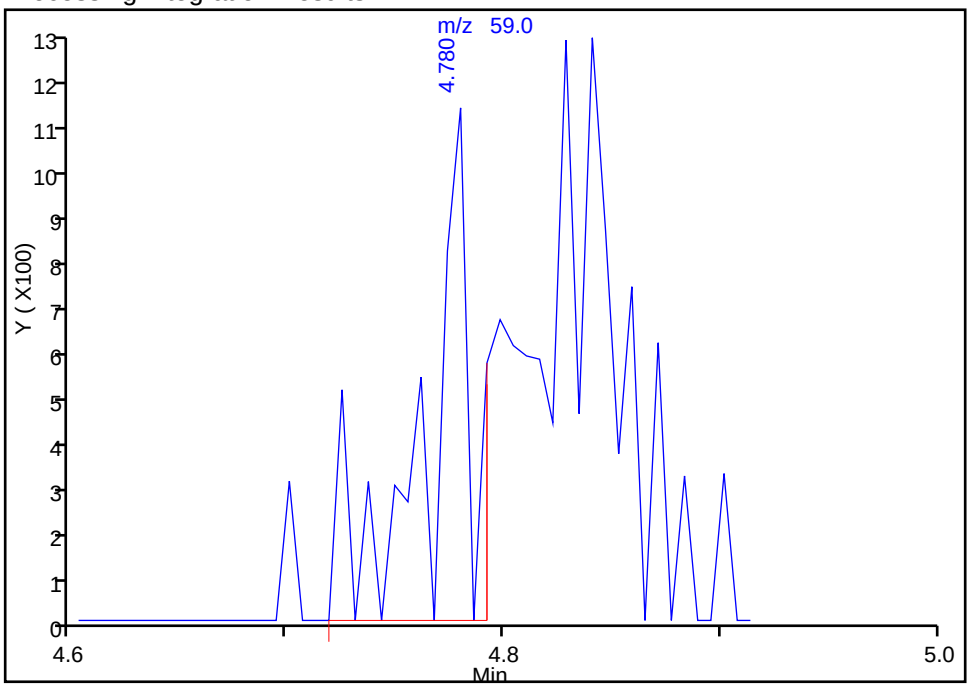
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

32 2-Methyl-2-propanol, CAS: 75-65-0

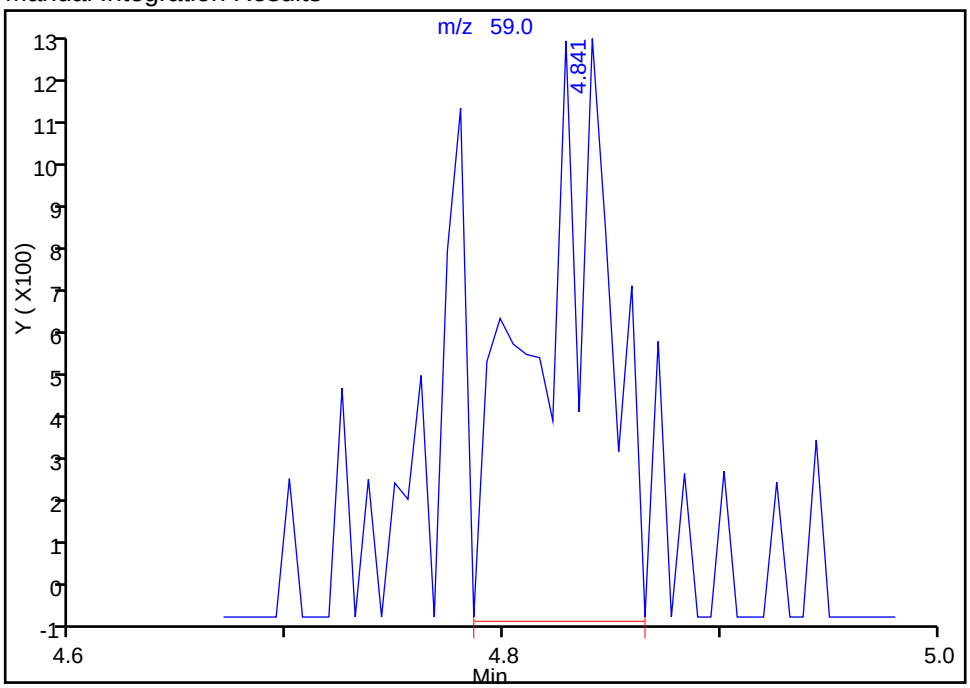
Processing Integration Results

RT: 4.78
Area: 1556
Amount: 134.7459
Amount Units: ng



Manual Integration Results

RT: 4.84
Area: 3006
Amount: 213.1740
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

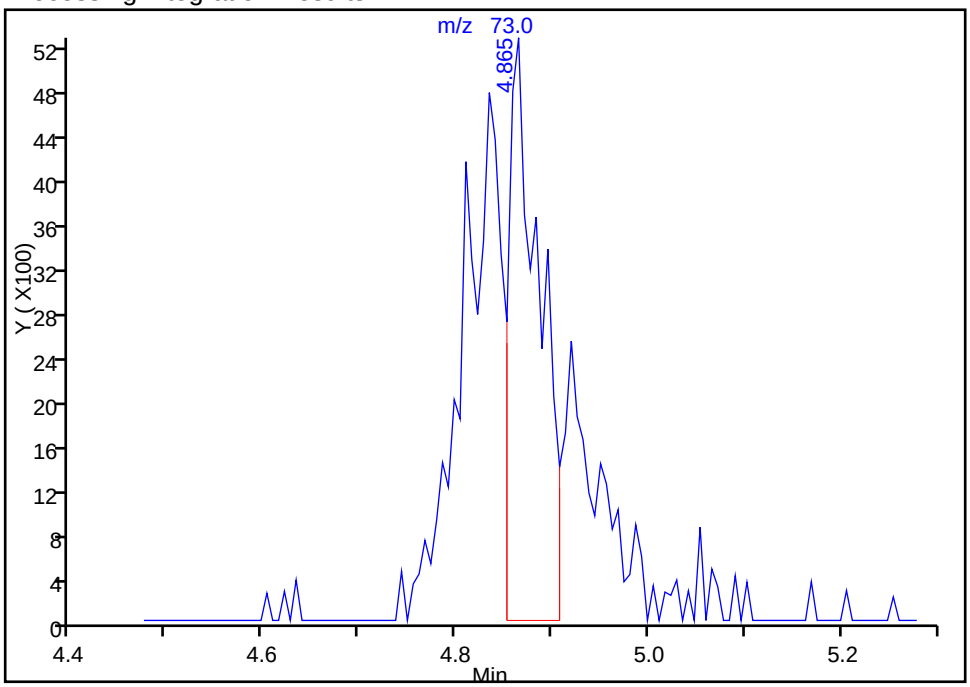
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4

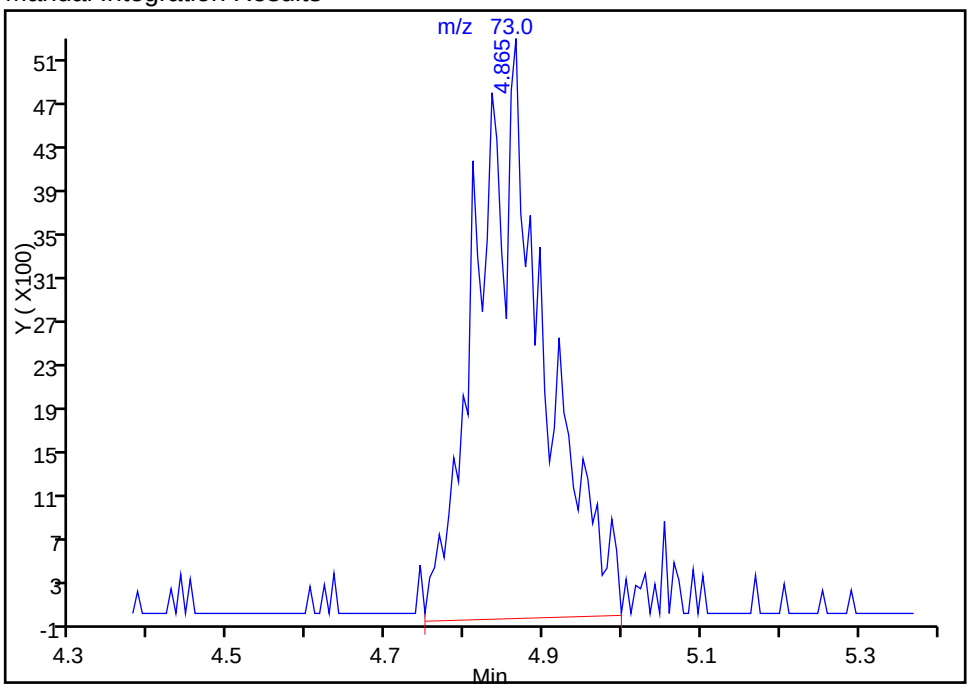
Processing Integration Results

RT: 4.87
Area: 11920
Amount: 15.440765
Amount Units: ng



Manual Integration Results

RT: 4.87
Area: 31656
Amount: 27.807714
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

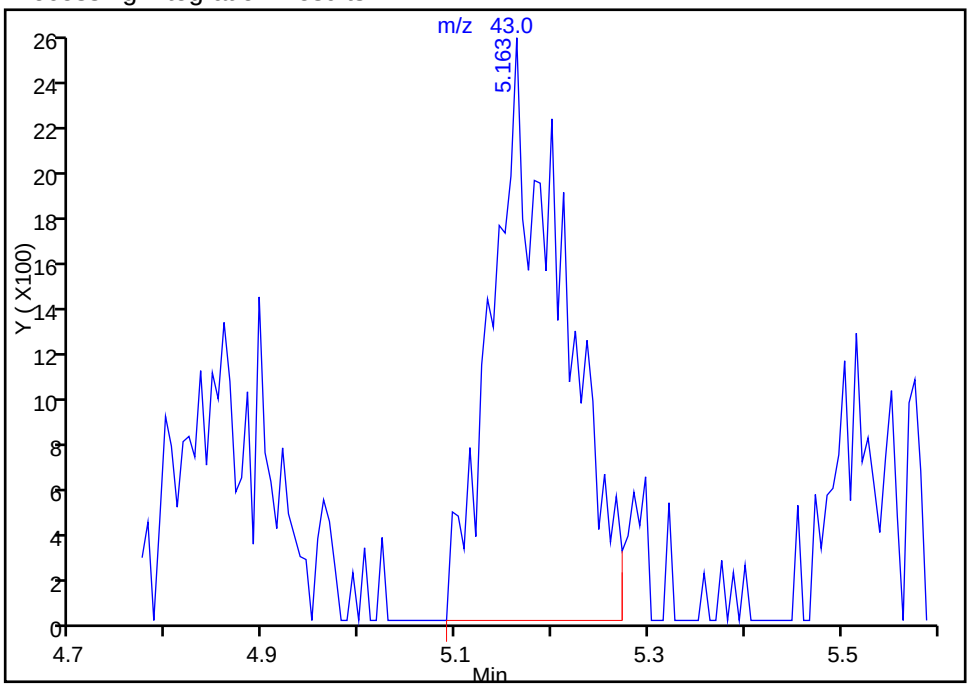
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

35 Vinyl acetate, CAS: 108-05-4

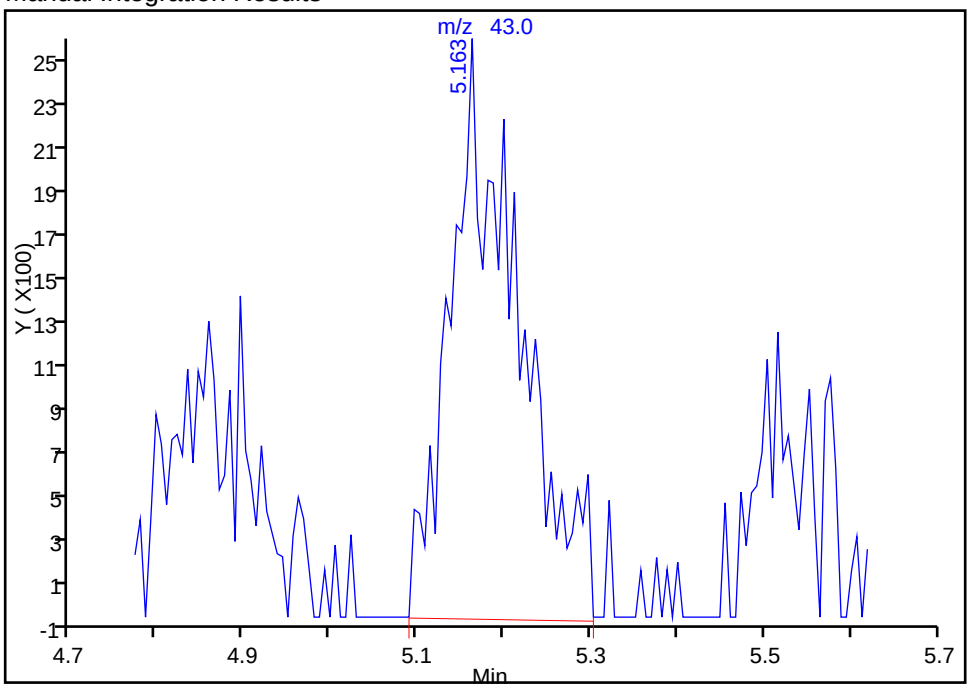
Processing Integration Results

RT: 5.16
Area: 12998
Amount: 28.898707
Amount Units: ng



Manual Integration Results

RT: 5.16
Area: 13858
Amount: 53.312247
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

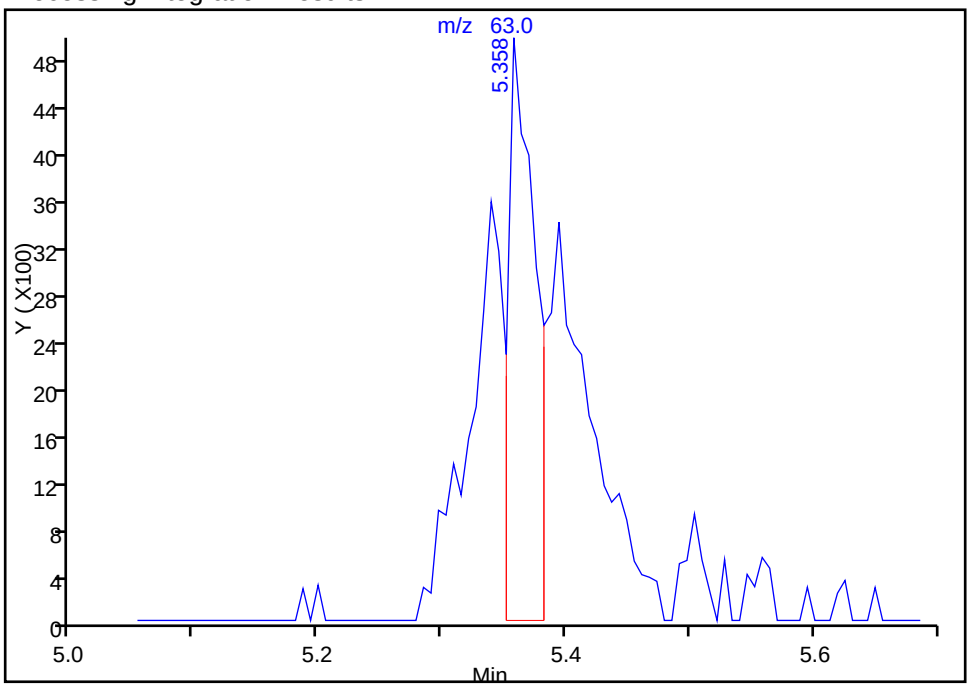
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

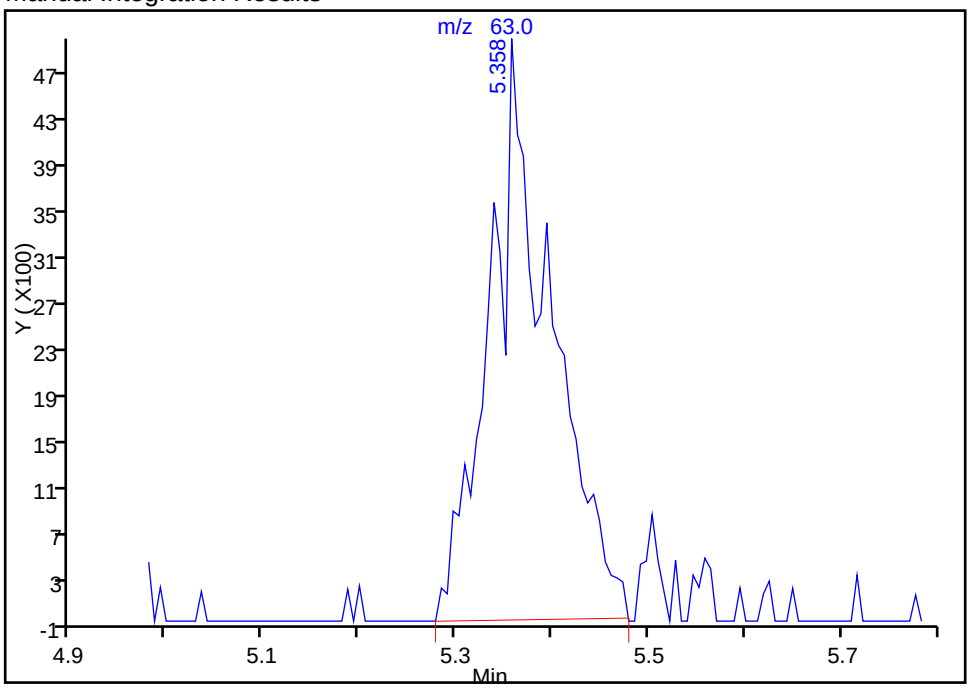
Processing Integration Results

RT: 5.36
Area: 7653
Amount: 13.418943
Amount Units: ng



Manual Integration Results

RT: 5.36
Area: 22031
Amount: 25.879455
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

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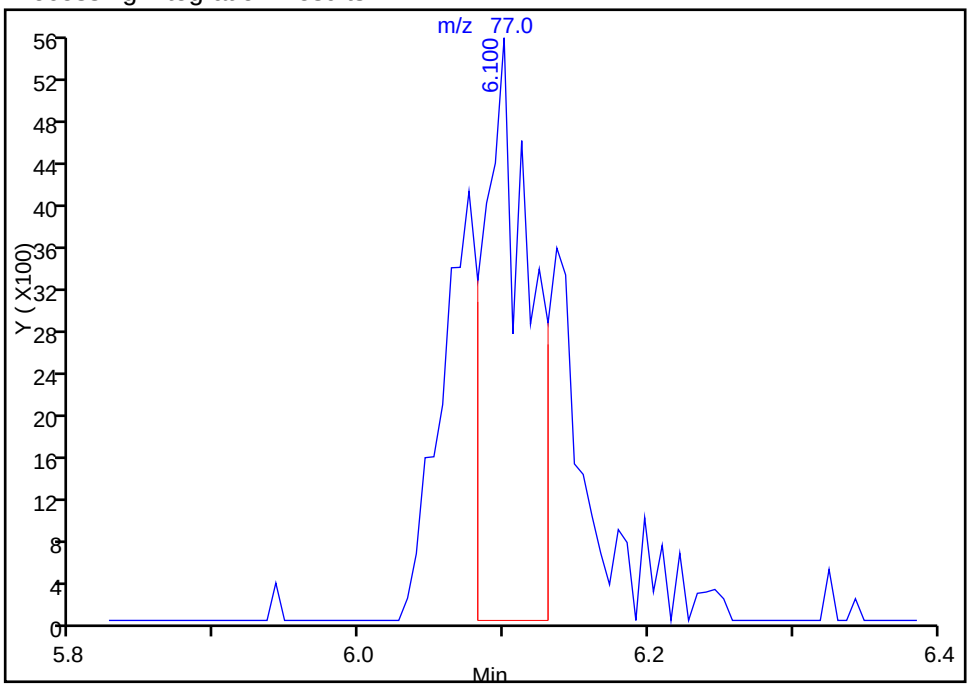
Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

42 2,2-Dichloropropane, CAS: 594-20-7

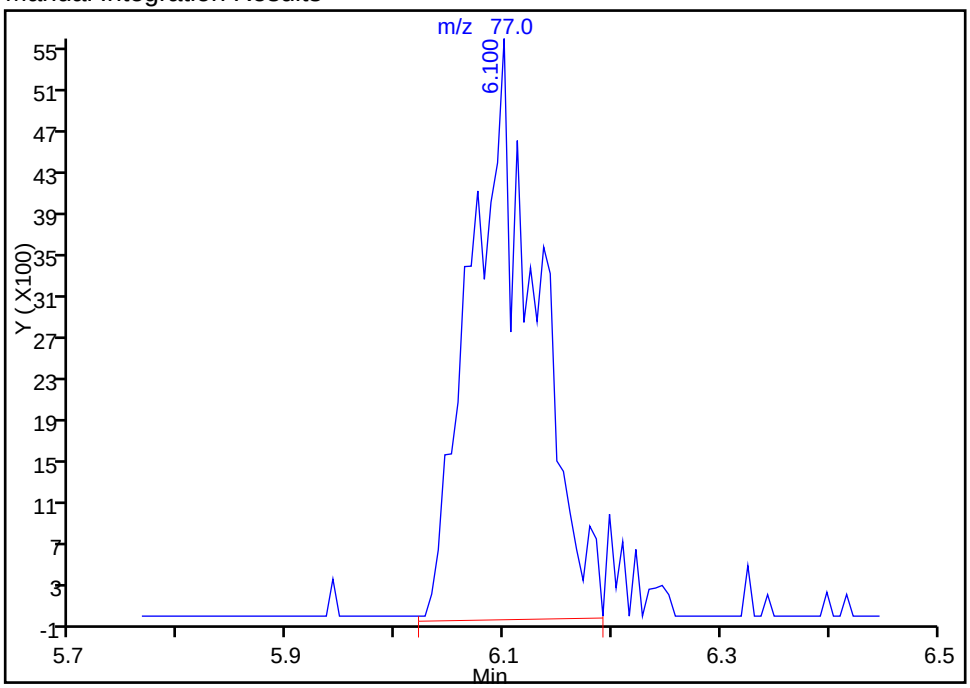
Processing Integration Results

RT: 6.10
Area: 12203
Amount: 49.353662
Amount Units: ng



Manual Integration Results

RT: 6.10
Area: 23553
Amount: 28.393091
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

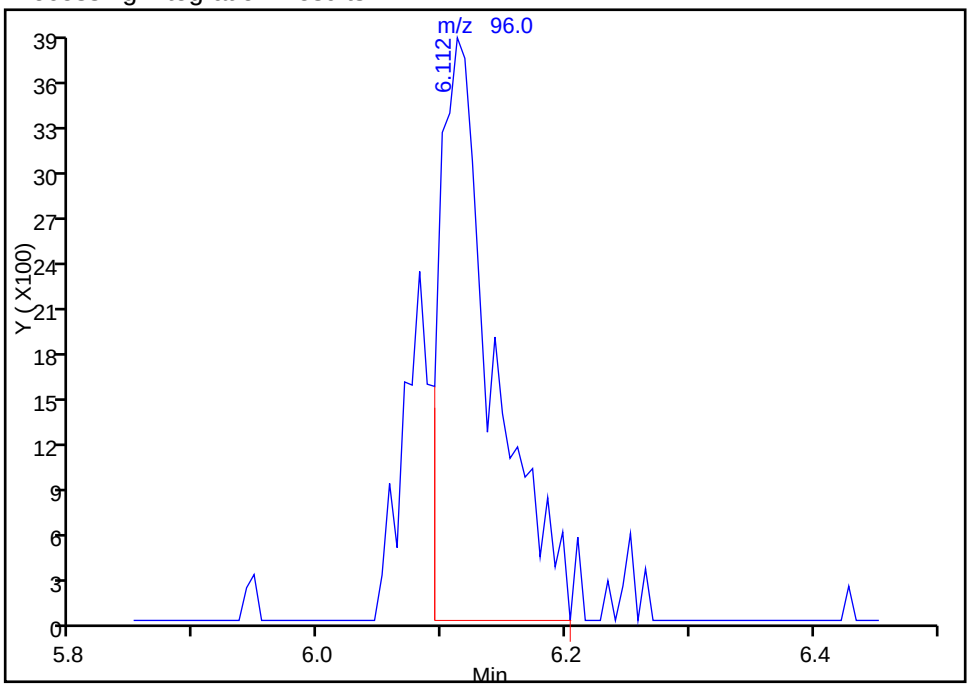
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

41 cis-1,2-Dichloroethene, CAS: 156-59-2

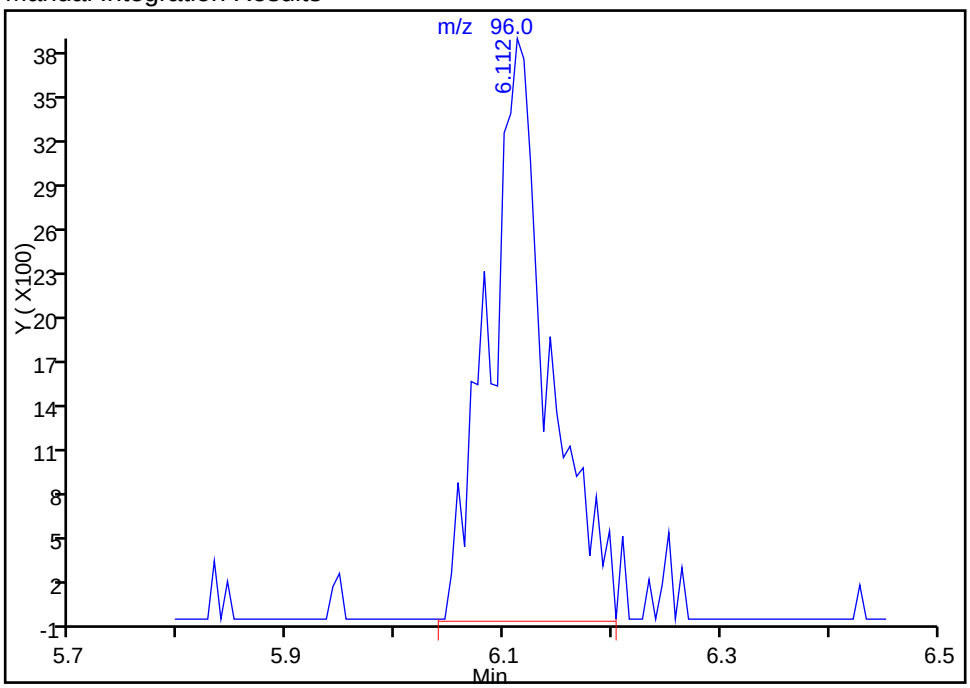
Processing Integration Results

RT: 6.11
Area: 11640
Amount: 22.900489
Amount Units: ng



Manual Integration Results

RT: 6.11
Area: 14973
Amount: 26.517163
Amount Units: ng



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Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

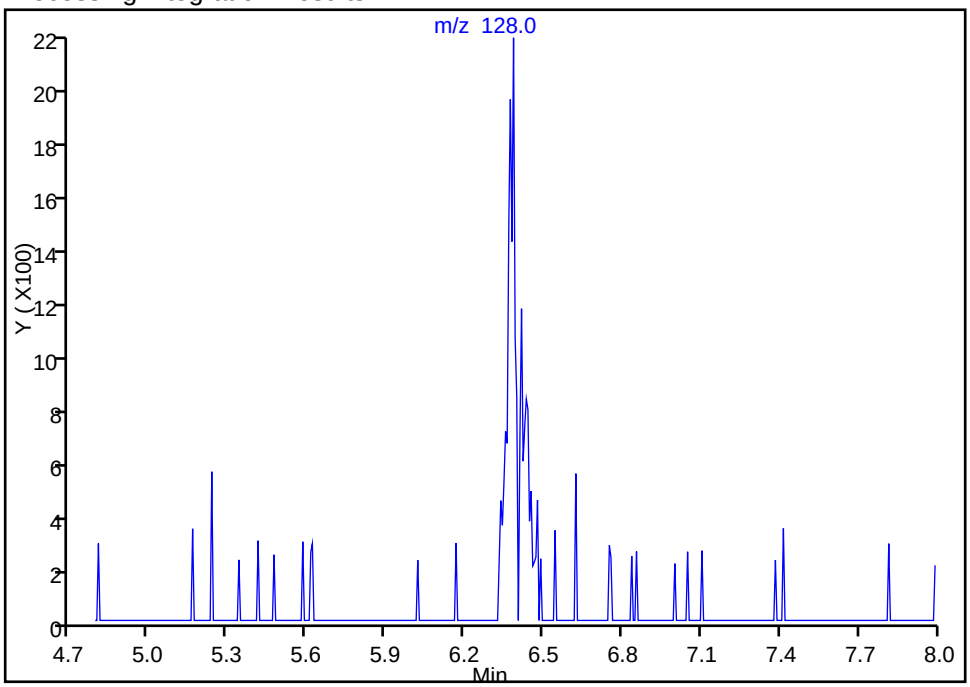
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

46 Chlorobromomethane, CAS: 74-97-5

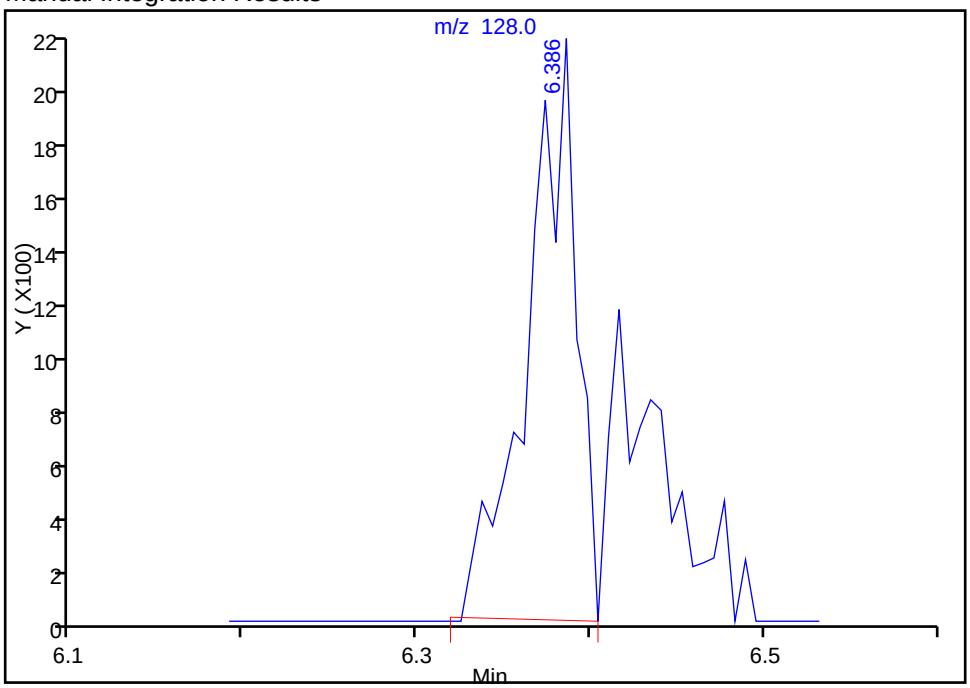
Not Detected
Expected RT: 6.39

Processing Integration Results



Manual Integration Results

RT: 6.39
Area: 4225
Amount: 15.835673
Amount Units: ng



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Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

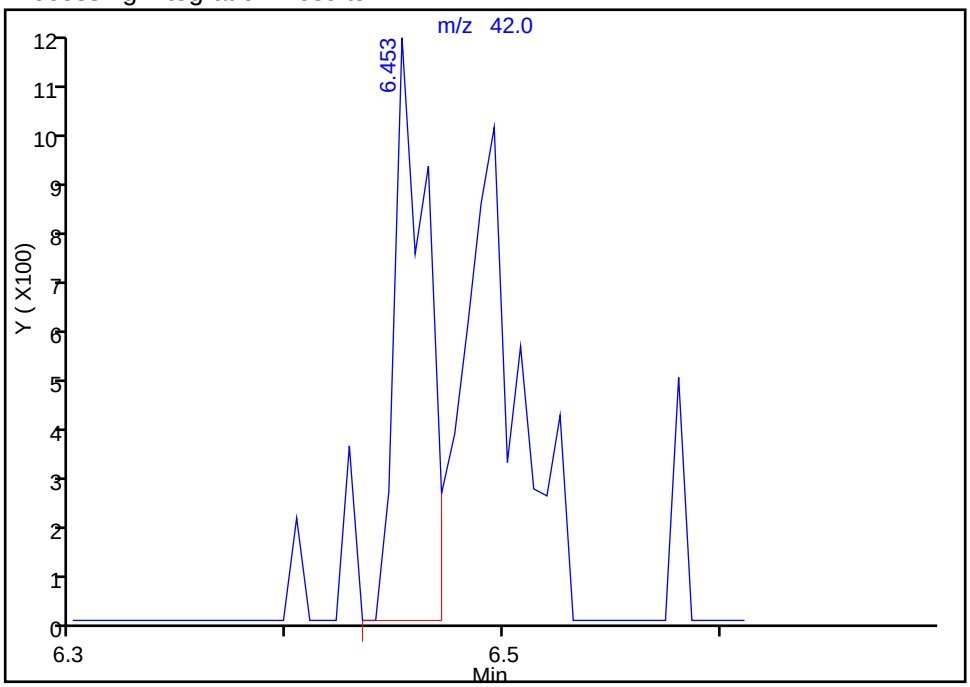
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

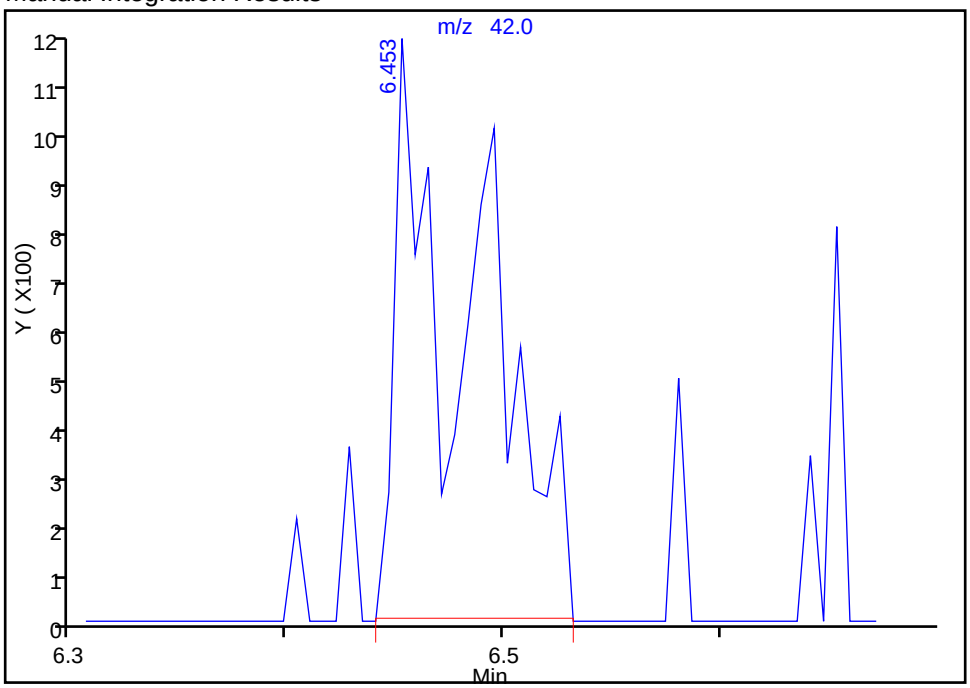
Processing Integration Results

RT: 6.45
Area: 1211
Amount: 30.505010
Amount Units: ng



Manual Integration Results

RT: 6.45
Area: 2844
Amount: 51.395759
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

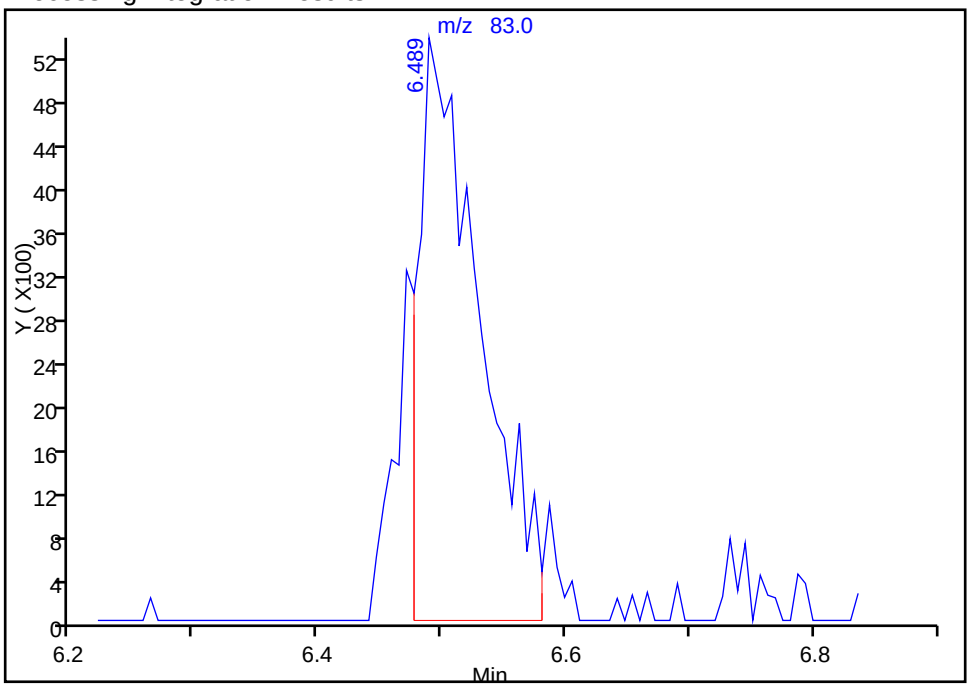
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

49 Chloroform, CAS: 67-66-3

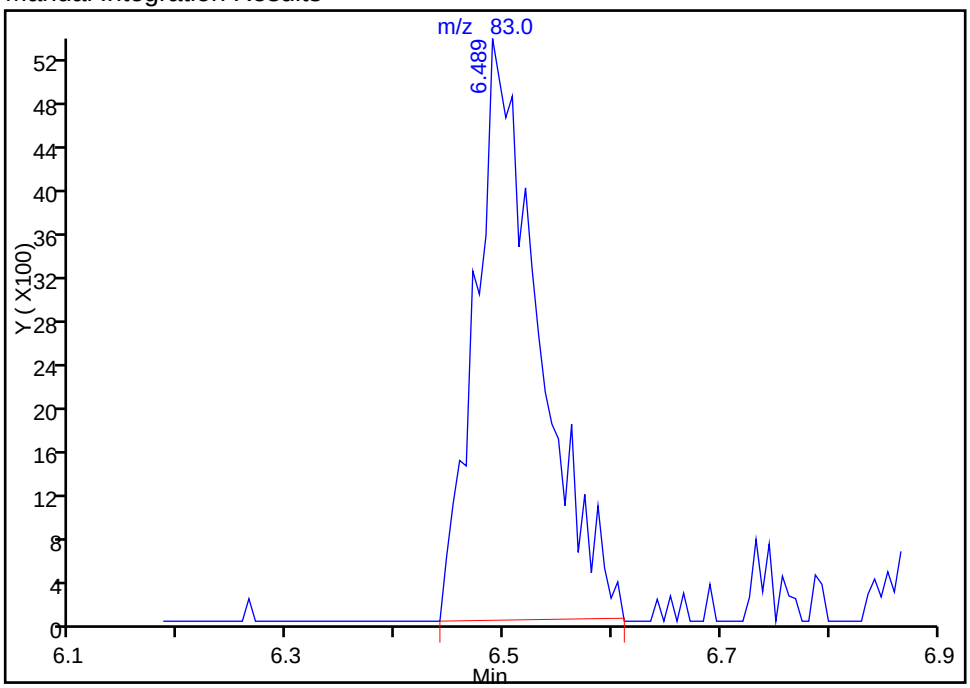
Processing Integration Results

RT: 6.49
Area: 18386
Amount: 22.969340
Amount Units: ng



Manual Integration Results

RT: 6.49
Area: 21850
Amount: 24.785785
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

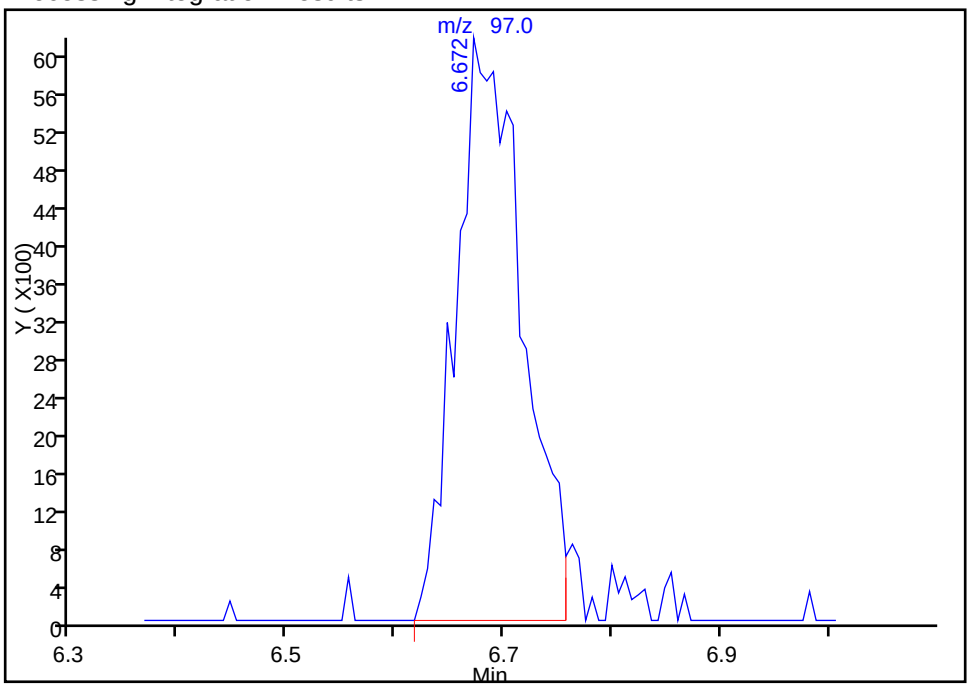
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

50 1,1,1-Trichloroethane, CAS: 71-55-6

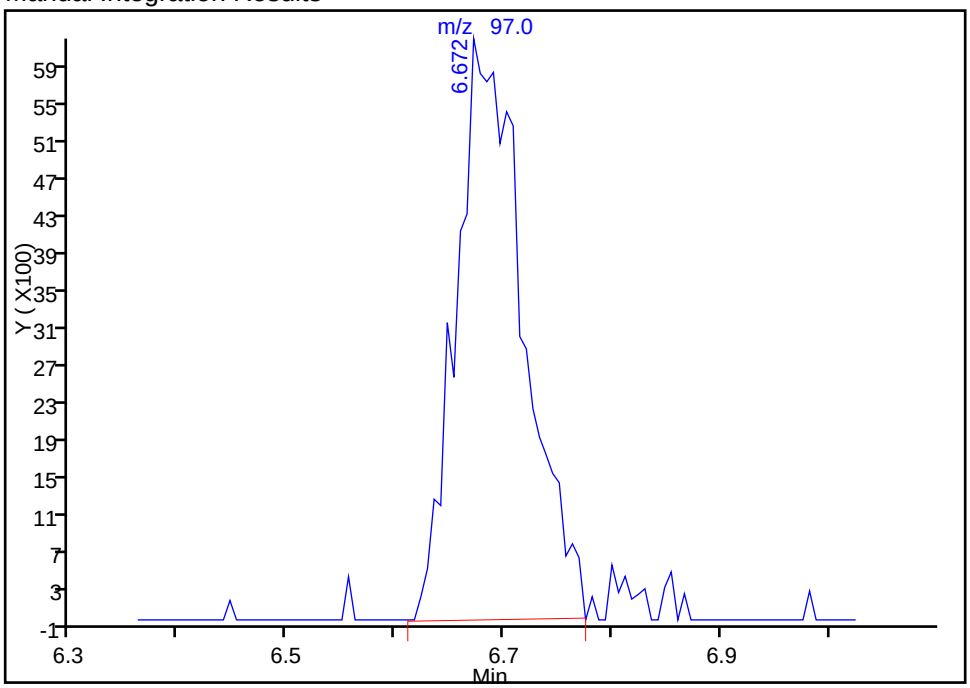
Processing Integration Results

RT: 6.67
Area: 26053
Amount: 27.603082
Amount Units: ng



Manual Integration Results

RT: 6.67
Area: 26557
Amount: 29.196403
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

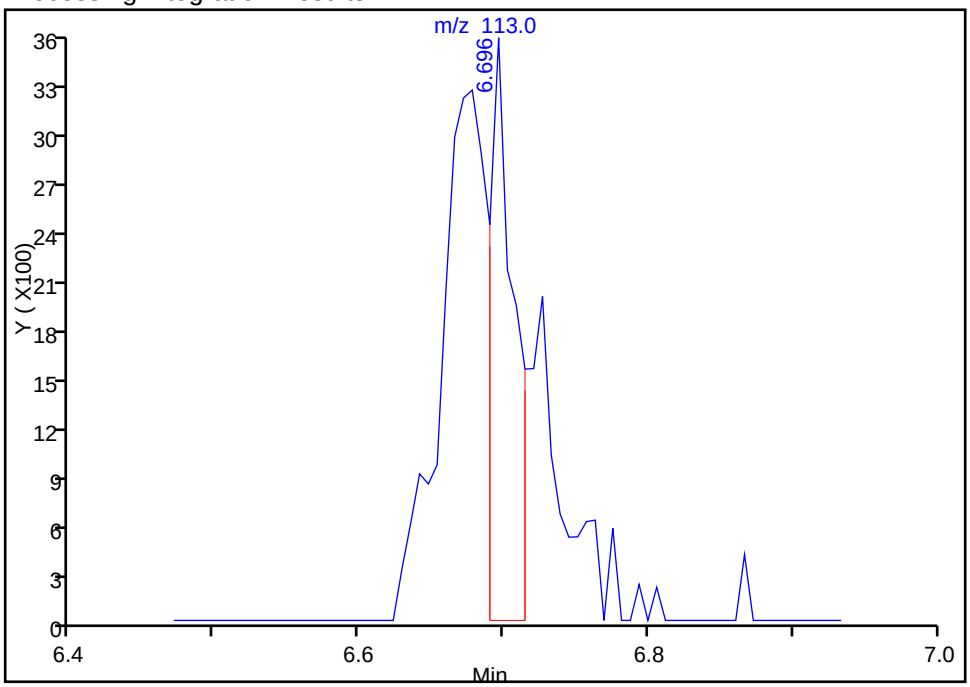
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

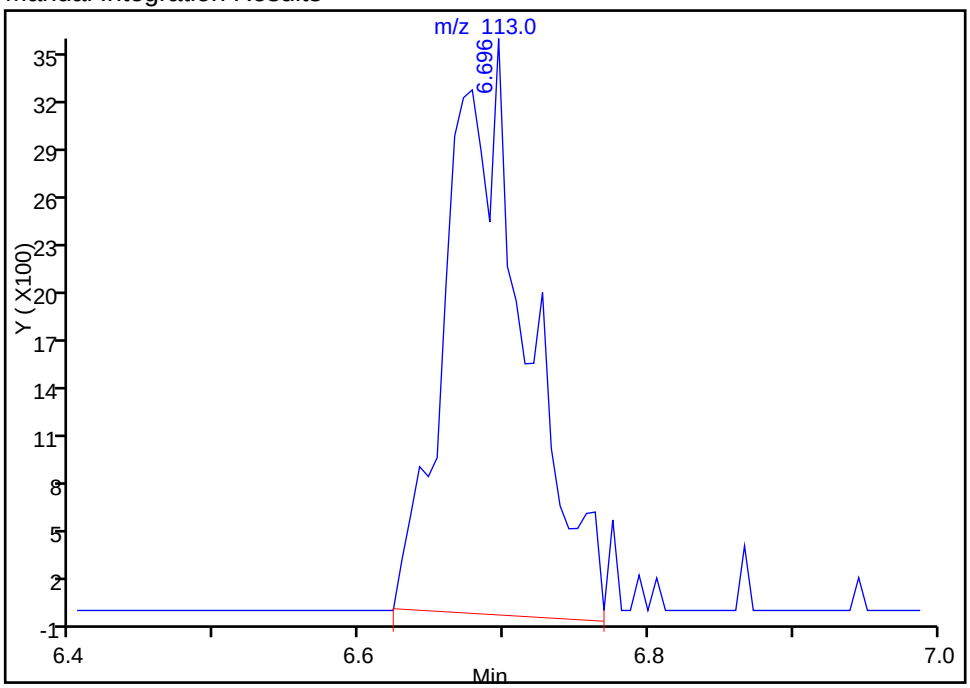
Processing Integration Results

RT: 6.70
Area: 4225
Amount: 13.604430
Amount Units: ng



Manual Integration Results

RT: 6.70
Area: 13695
Amount: 28.964269
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

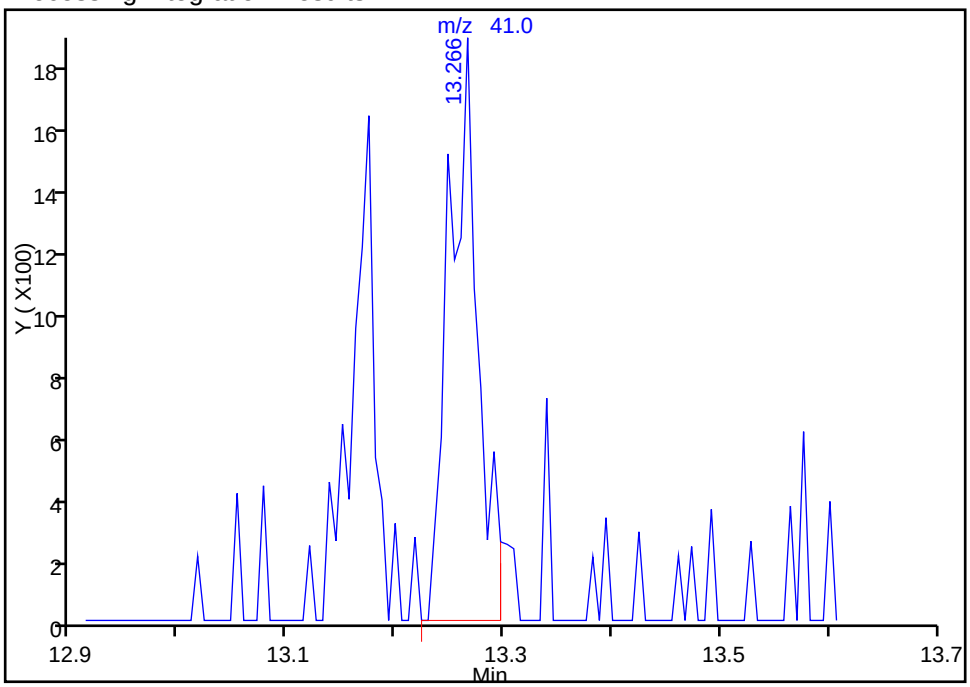
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

51 Isobutyl alcohol, CAS: 78-83-1

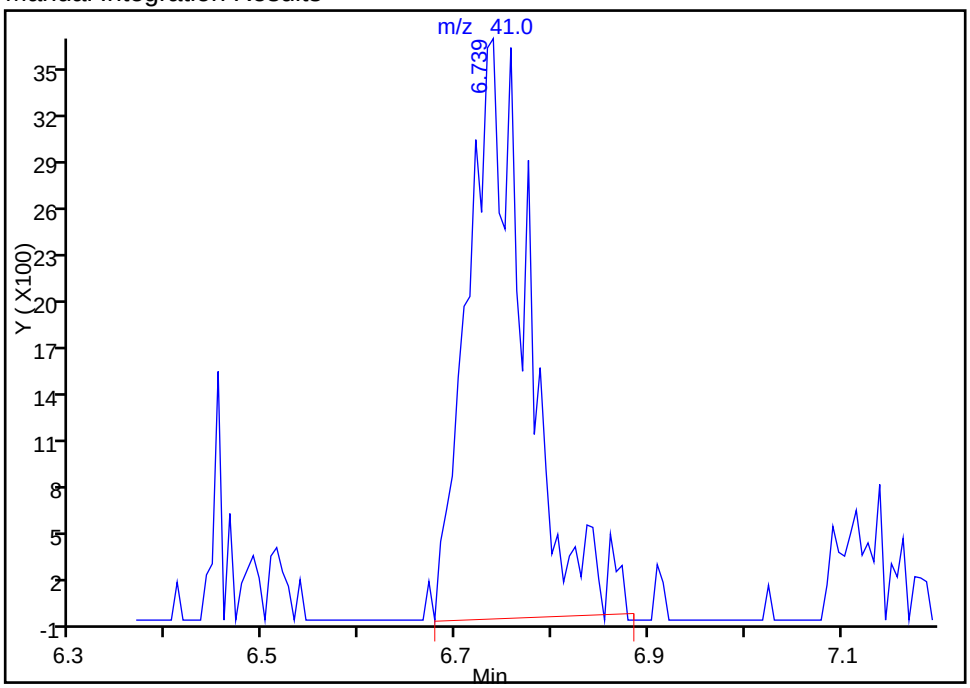
Processing Integration Results

RT: 13.27
Area: 3452
Amount: 395.5202
Amount Units: ng



Manual Integration Results

RT: 6.74
Area: 15696
Amount: 762.0941
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:12:16
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

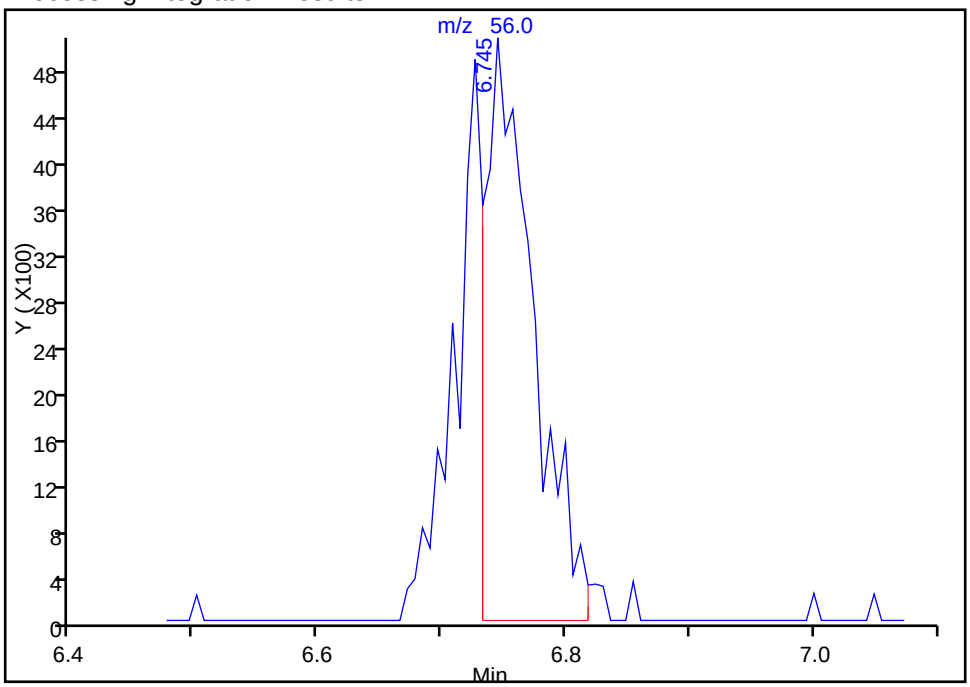
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

52 Cyclohexane, CAS: 110-82-7

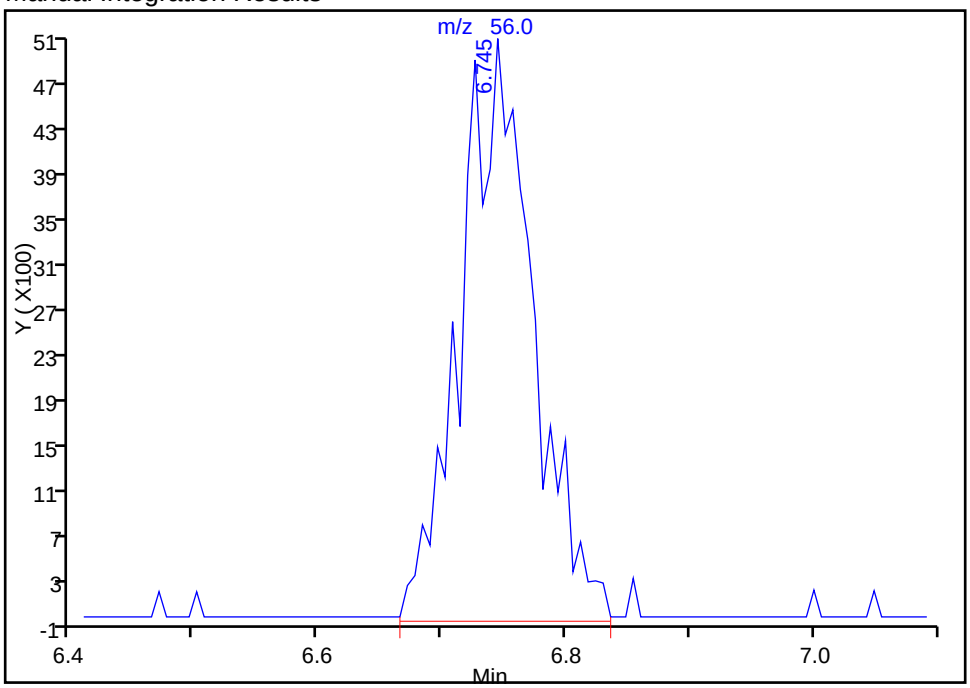
Processing Integration Results

RT: 6.74
Area: 13817
Amount: 21.749448
Amount Units: ng



Manual Integration Results

RT: 6.74
Area: 20960
Amount: 27.705713
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

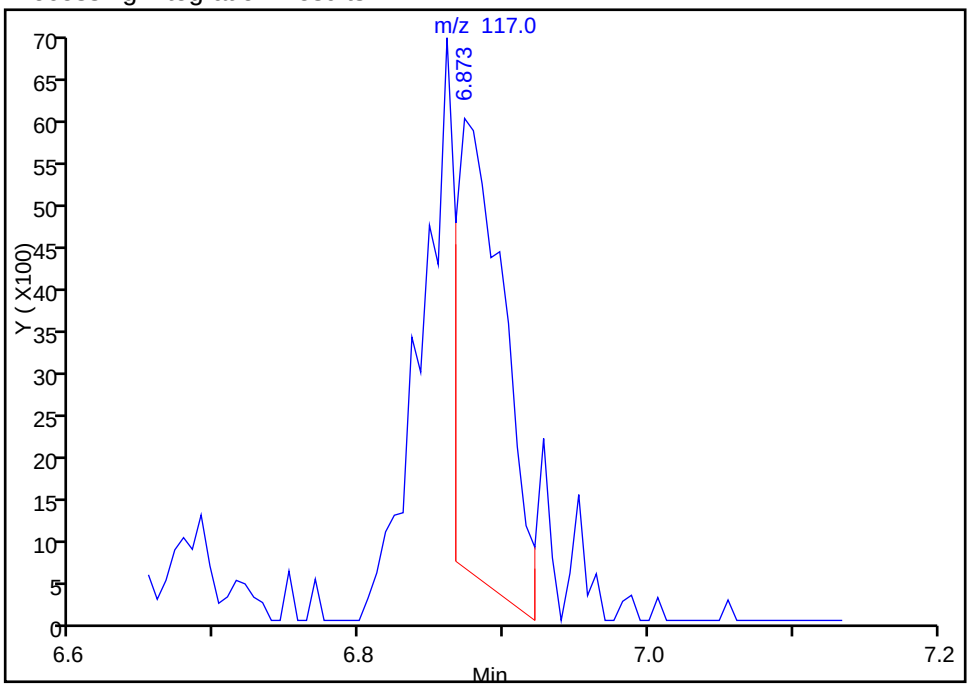
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

53 Carbon tetrachloride, CAS: 56-23-5

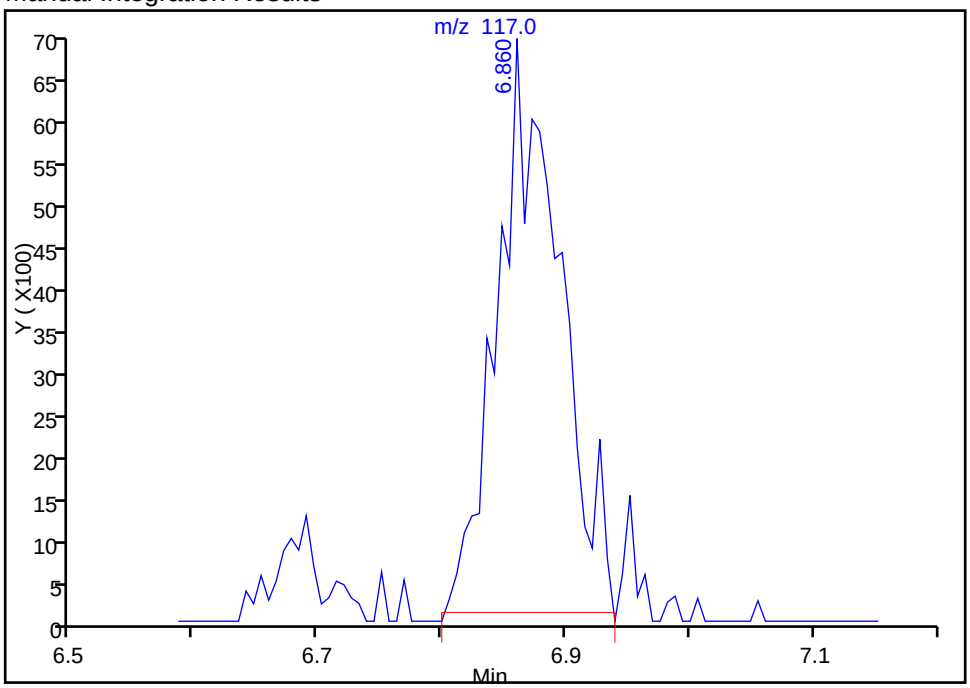
Processing Integration Results

RT: 6.87
Area: 12578
Amount: 18.257609
Amount Units: ng



Manual Integration Results

RT: 6.86
Area: 23703
Amount: 26.833950
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
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Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

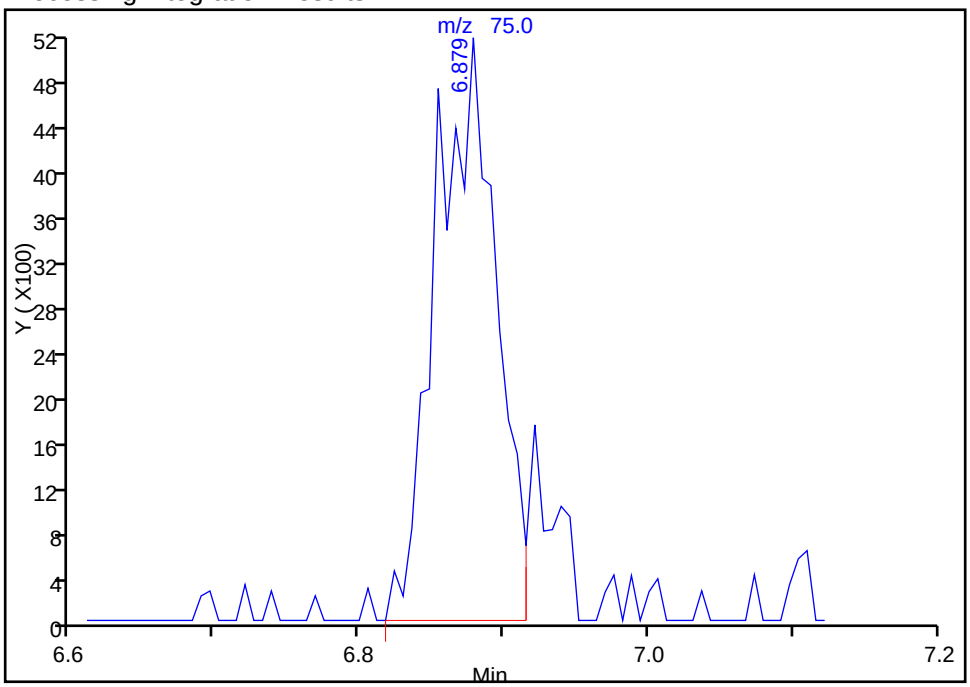
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

54 1,1-Dichloropropene, CAS: 563-58-6

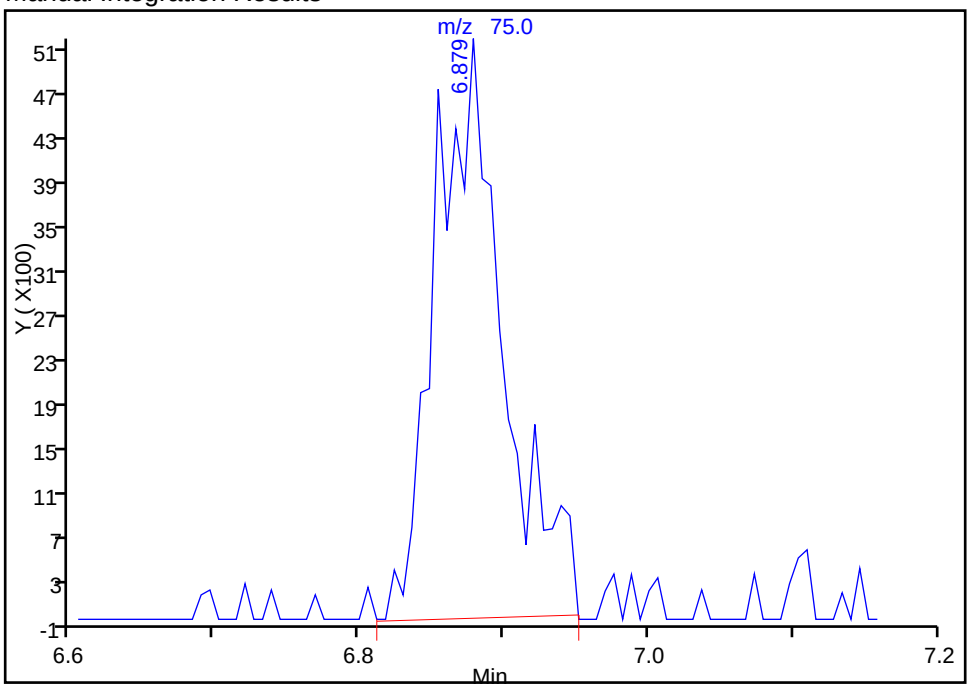
Processing Integration Results

RT: 6.88
Area: 15141
Amount: 25.697078
Amount Units: ng



Manual Integration Results

RT: 6.88
Area: 16972
Amount: 22.959333
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

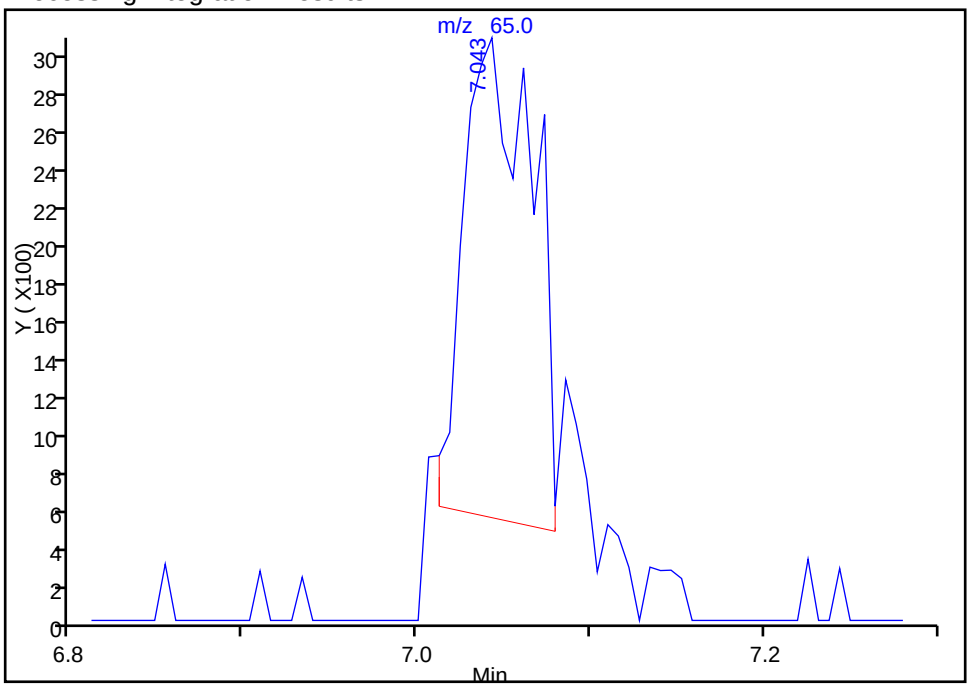
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 6 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

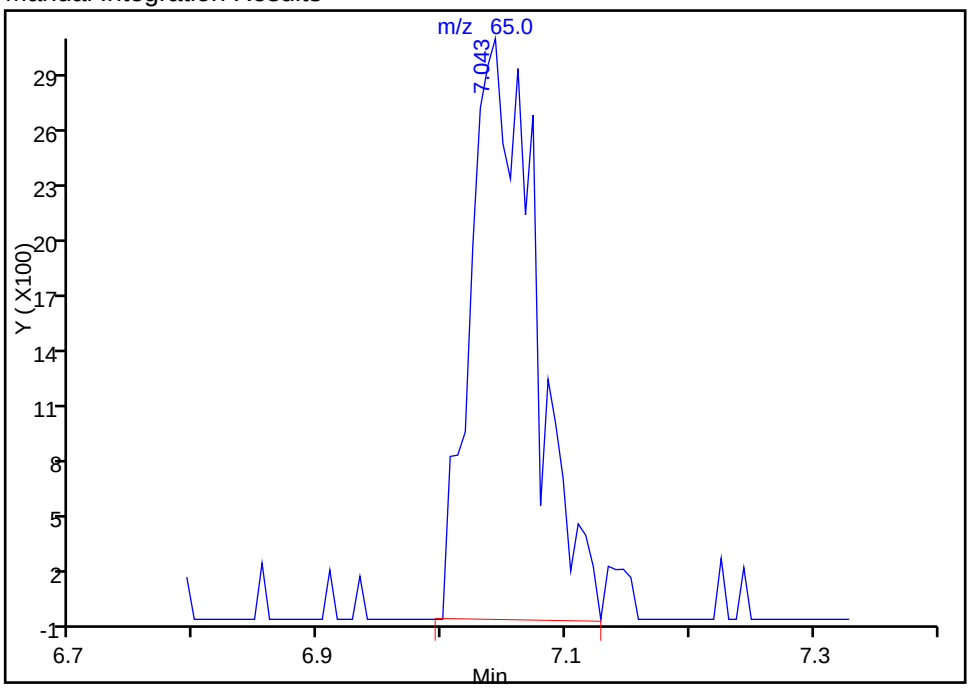
Processing Integration Results

RT: 7.04
Area: 7039
Amount: 19.287711
Amount Units: ng



Manual Integration Results

RT: 7.04
Area: 11378
Amount: 24.870082
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

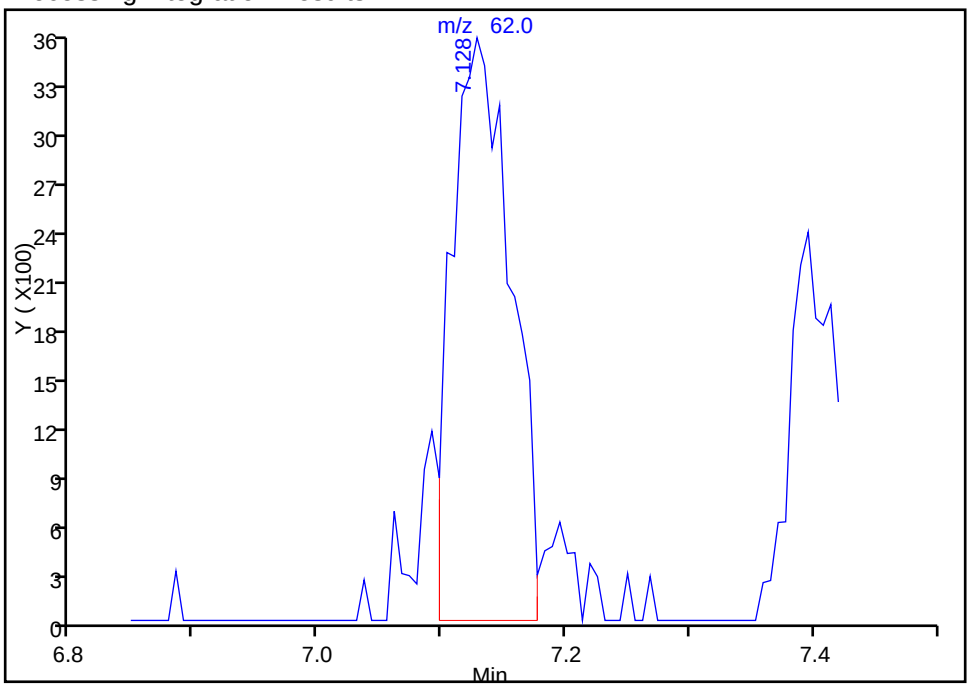
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

56 1,2-Dichloroethane, CAS: 107-06-2

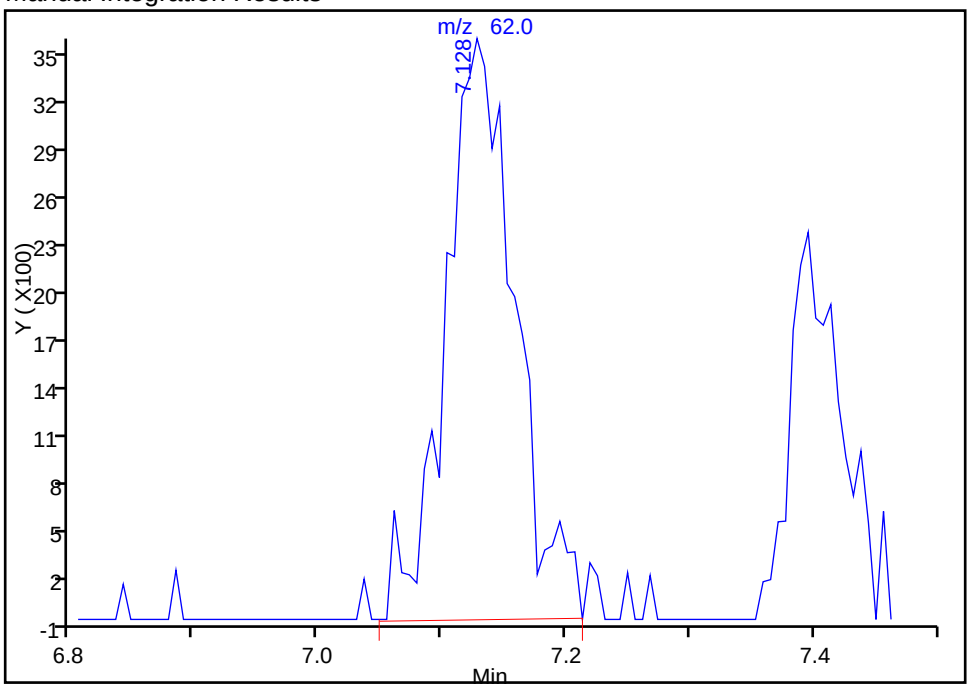
Processing Integration Results

RT: 7.13
Area: 11672
Amount: 25.350514
Amount Units: ng



Manual Integration Results

RT: 7.13
Area: 13794
Amount: 26.855696
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

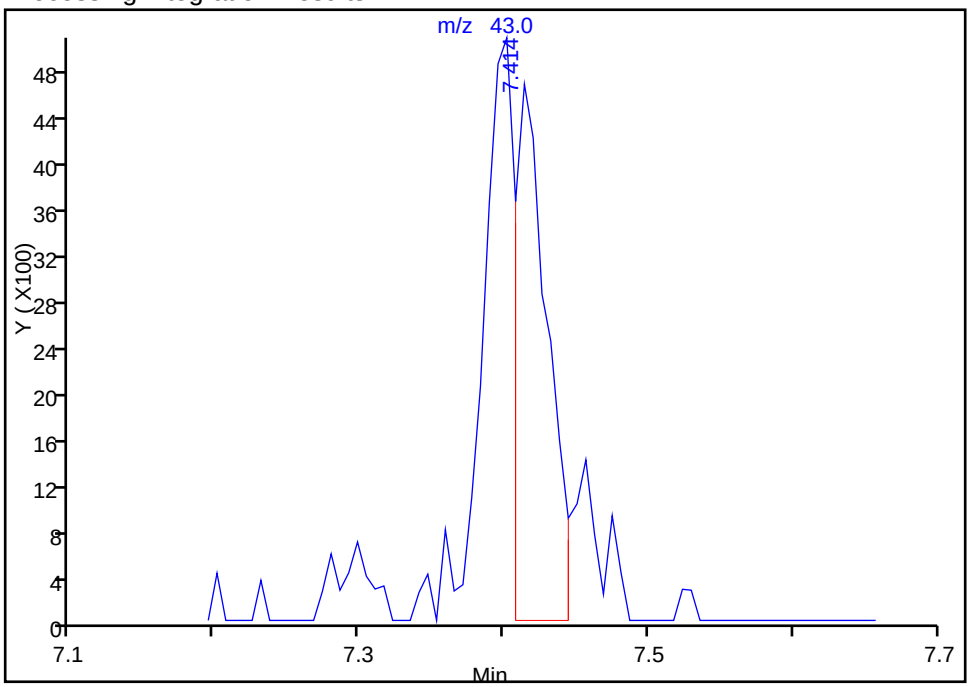
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

59 n-Heptane, CAS: 142-82-5

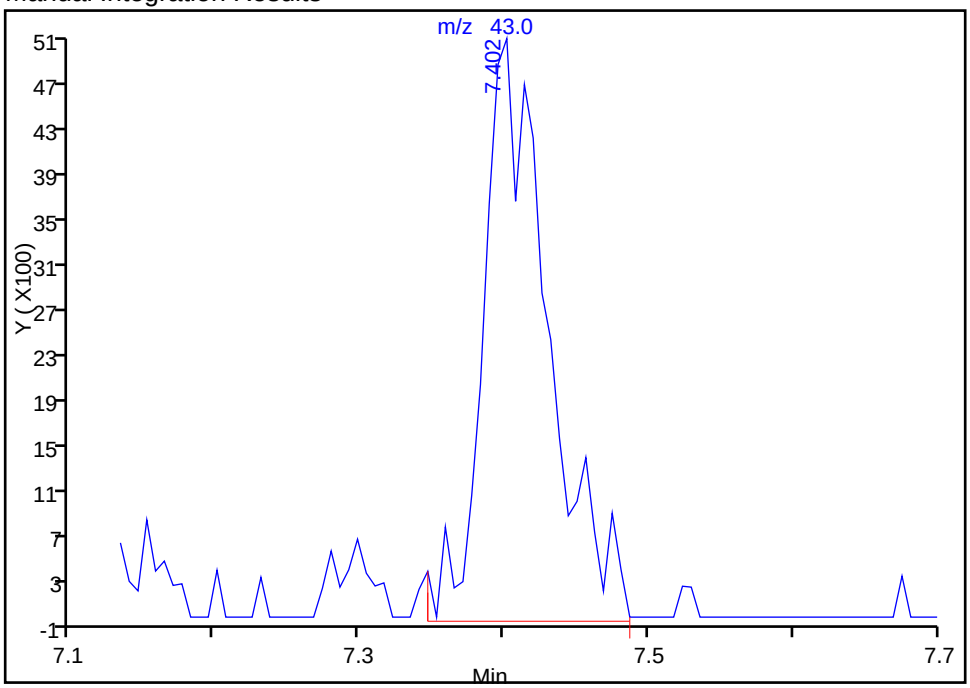
Processing Integration Results

RT: 7.41
Area: 7387
Amount: 18.042135
Amount Units: ng



Manual Integration Results

RT: 7.40
Area: 16142
Amount: 28.350715
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

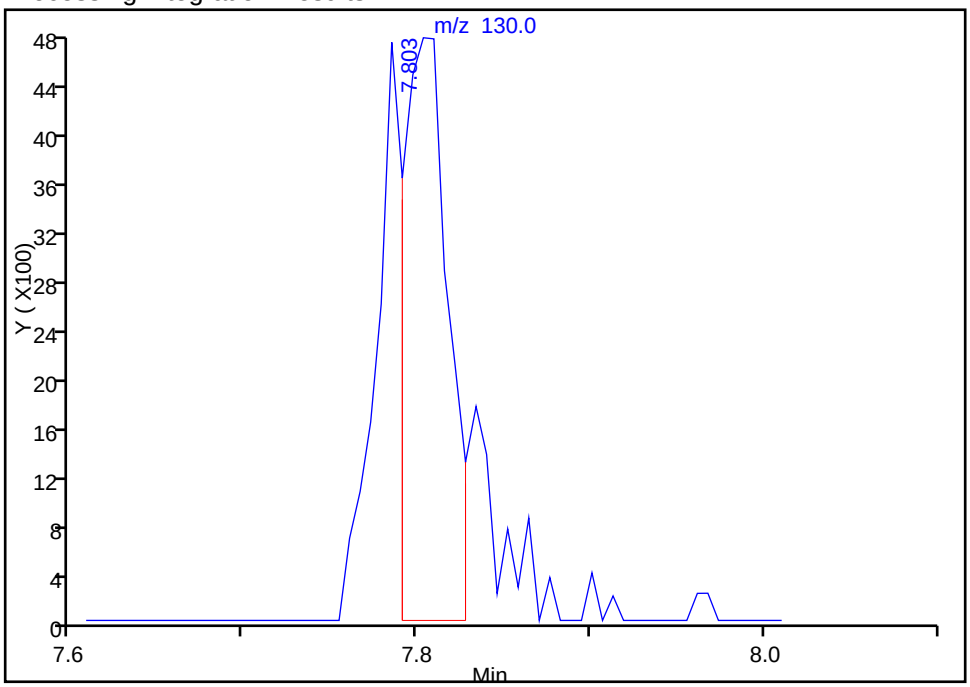
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

60 Trichloroethene, CAS: 79-01-6

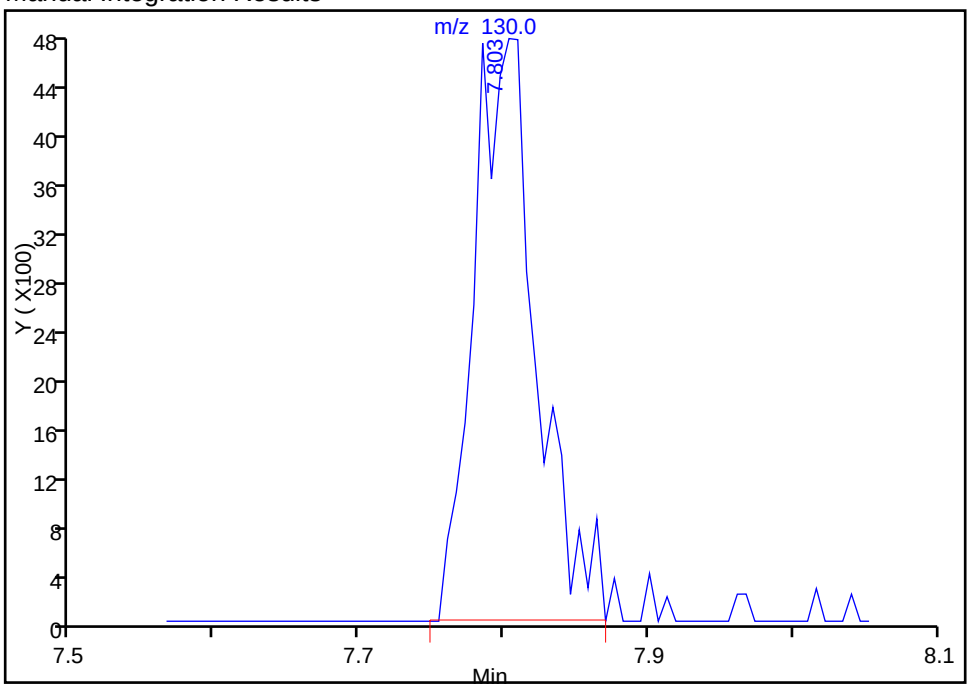
Processing Integration Results

RT: 7.80
Area: 8694
Amount: 19.083075
Amount Units: ng



Manual Integration Results

RT: 7.80
Area: 14396
Amount: 25.145949
Amount Units: ng



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Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

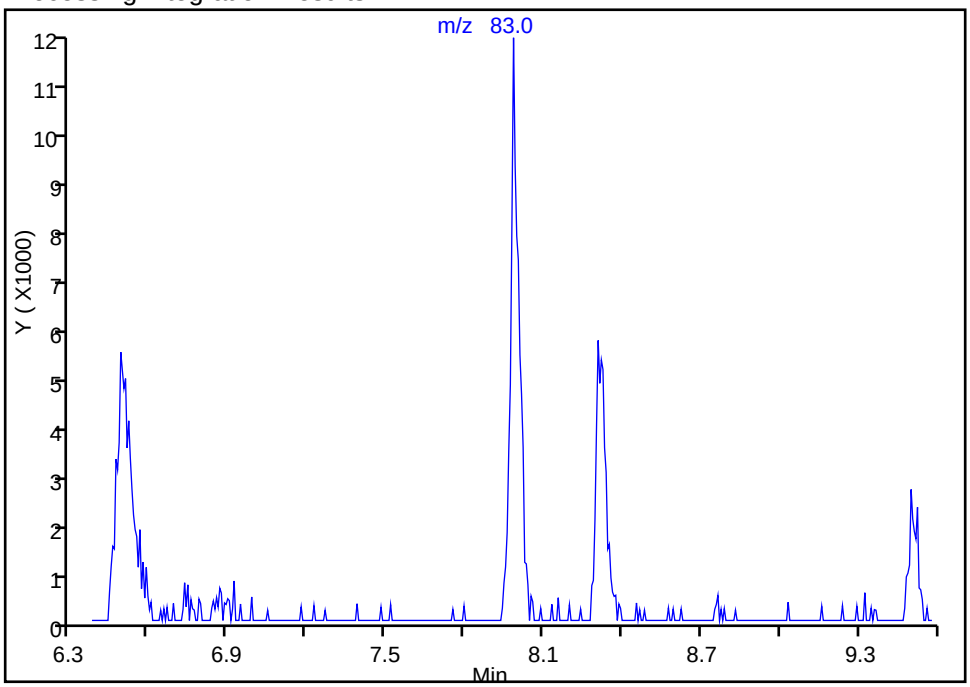
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

63 Methylcyclohexane, CAS: 108-87-2

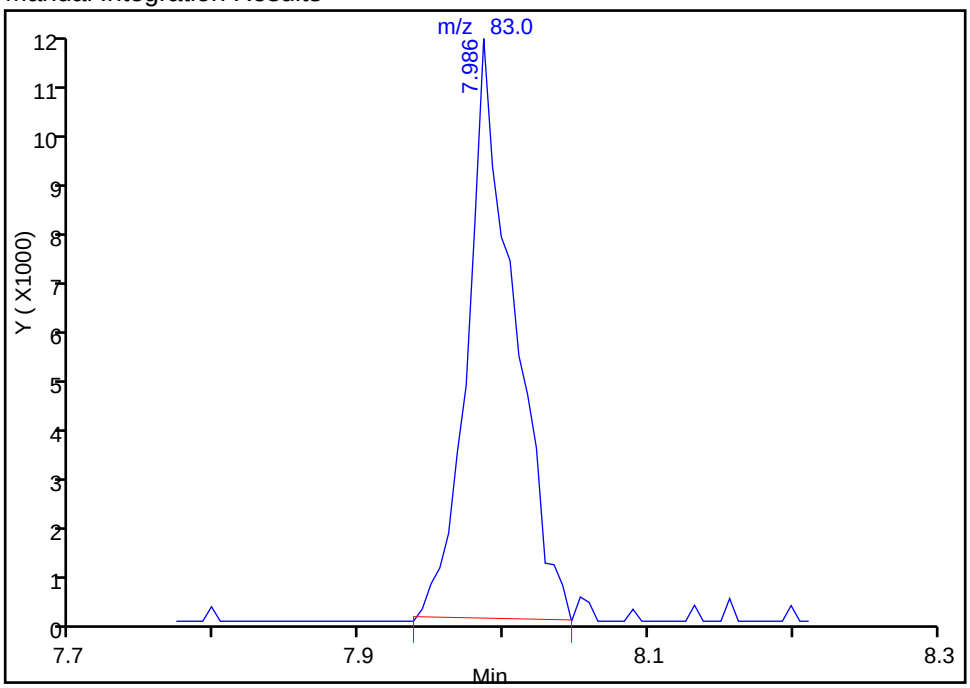
Not Detected
Expected RT: 7.98

Processing Integration Results



Manual Integration Results

RT: 7.99
Area: 25773
Amount: 29.059198
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

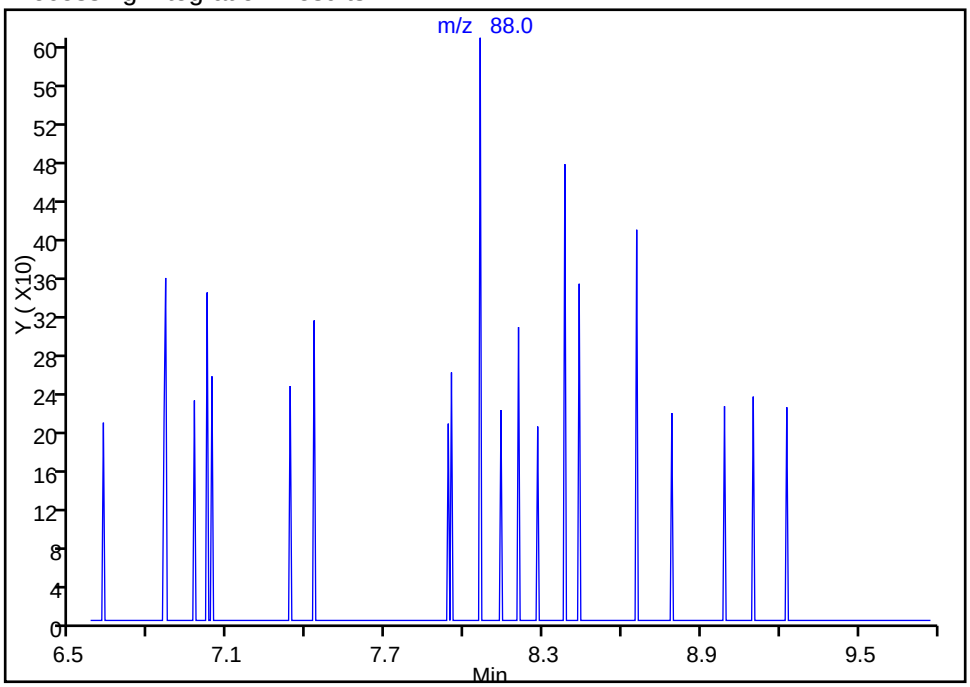
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

67 1,4-Dioxane, CAS: 123-91-1

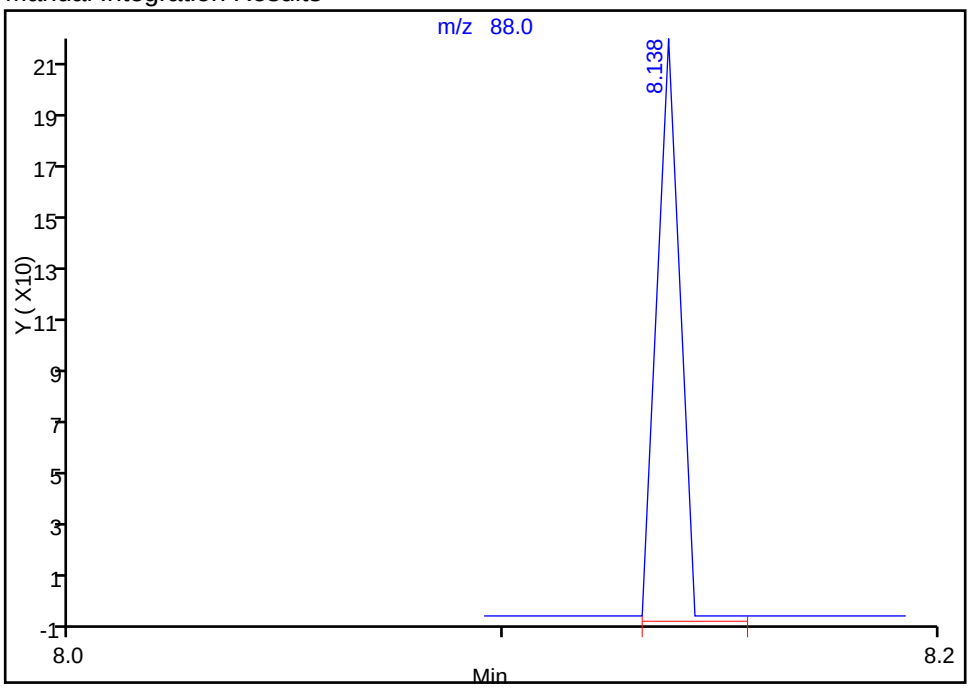
Not Detected
Expected RT: 8.18

Processing Integration Results



Manual Integration Results

RT: 8.14
Area: 83
Amount: 1152.5852
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:37:51
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

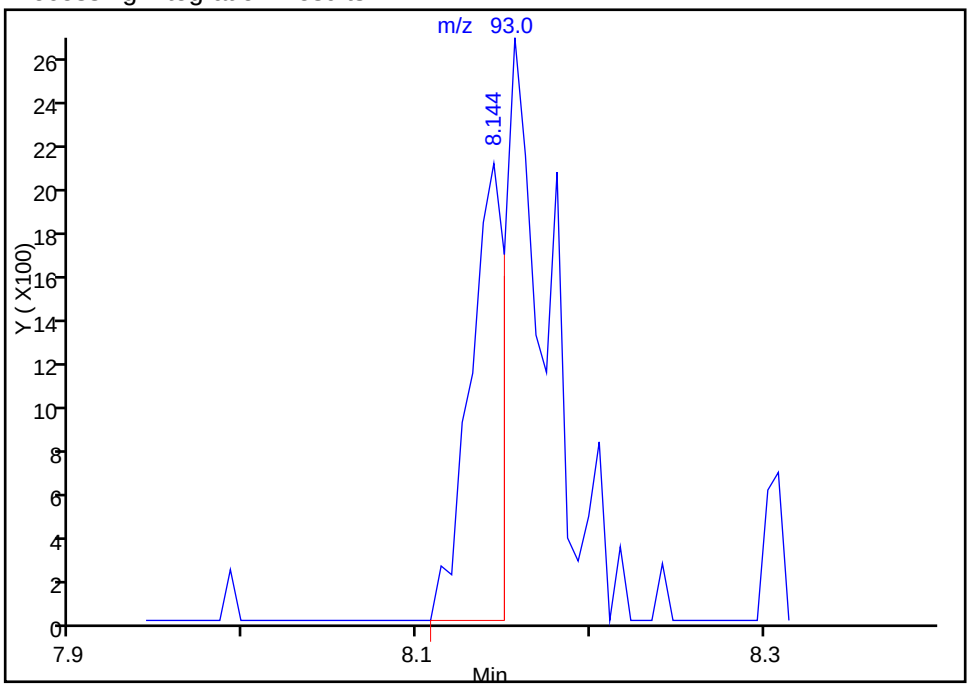
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D				
Injection Date:	13-Jan-2015 10:25:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

65 Dibromomethane, CAS: 74-95-3

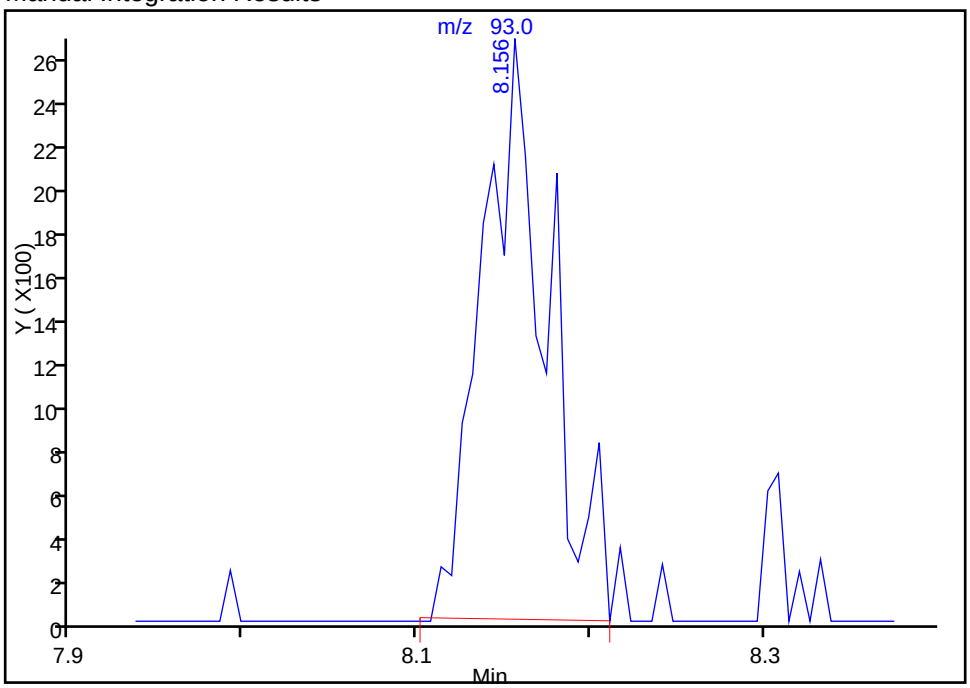
Processing Integration Results

RT: 8.14
Area: 2879
Amount: 16.663193
Amount Units: ng



Manual Integration Results

RT: 8.16
Area: 6814
Amount: 27.748606
Amount Units: ng



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Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

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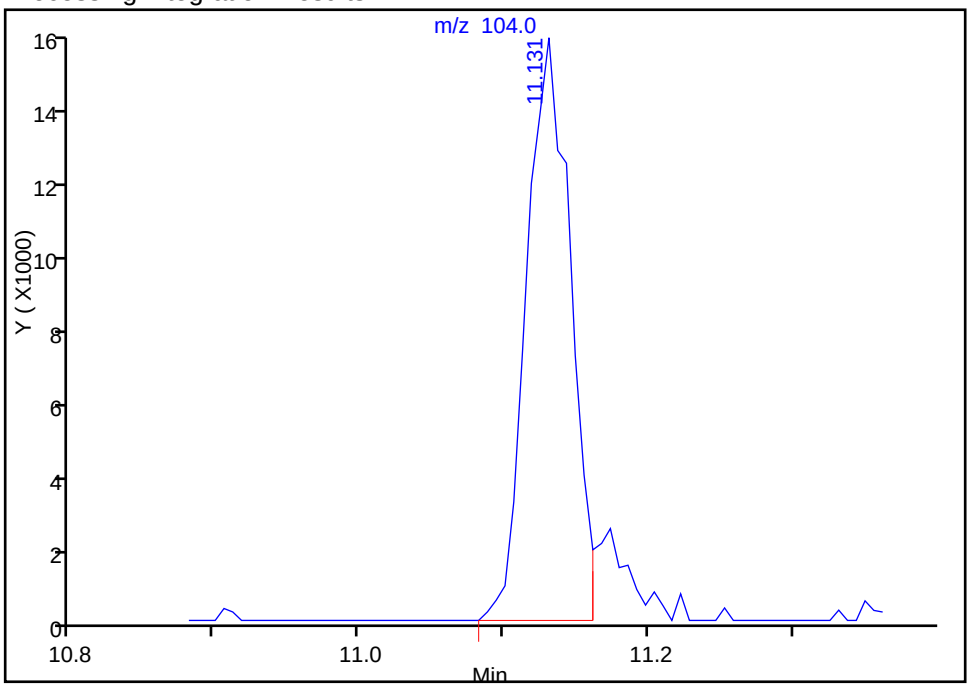
Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

89 Styrene, CAS: 100-42-5

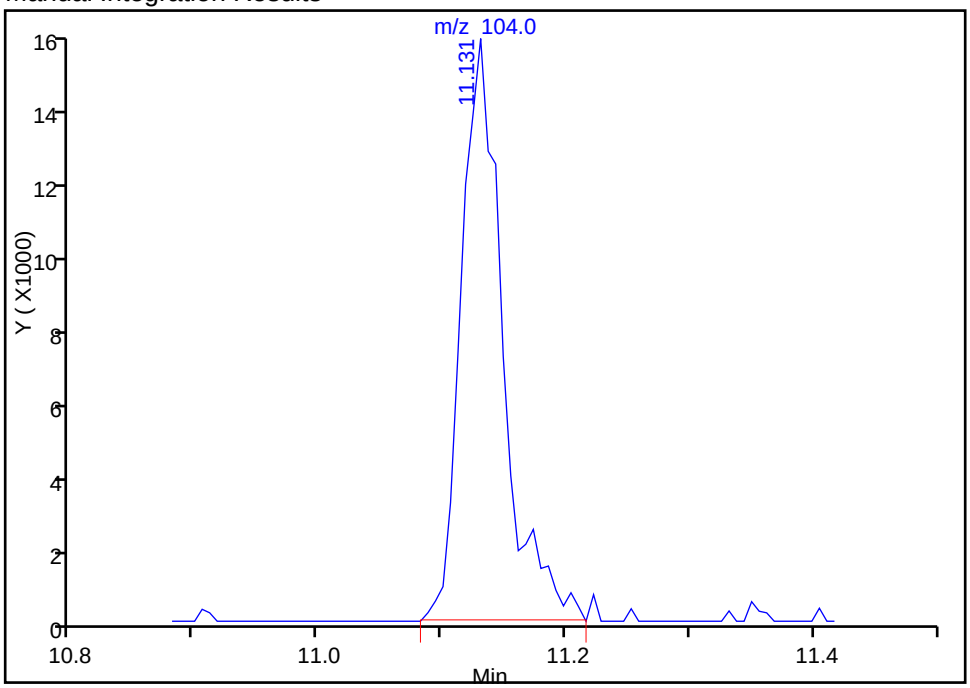
Processing Integration Results

RT: 11.13
Area: 31988
Amount: 25.102563
Amount Units: ng



Manual Integration Results

RT: 11.13
Area: 35152
Amount: 28.970908
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

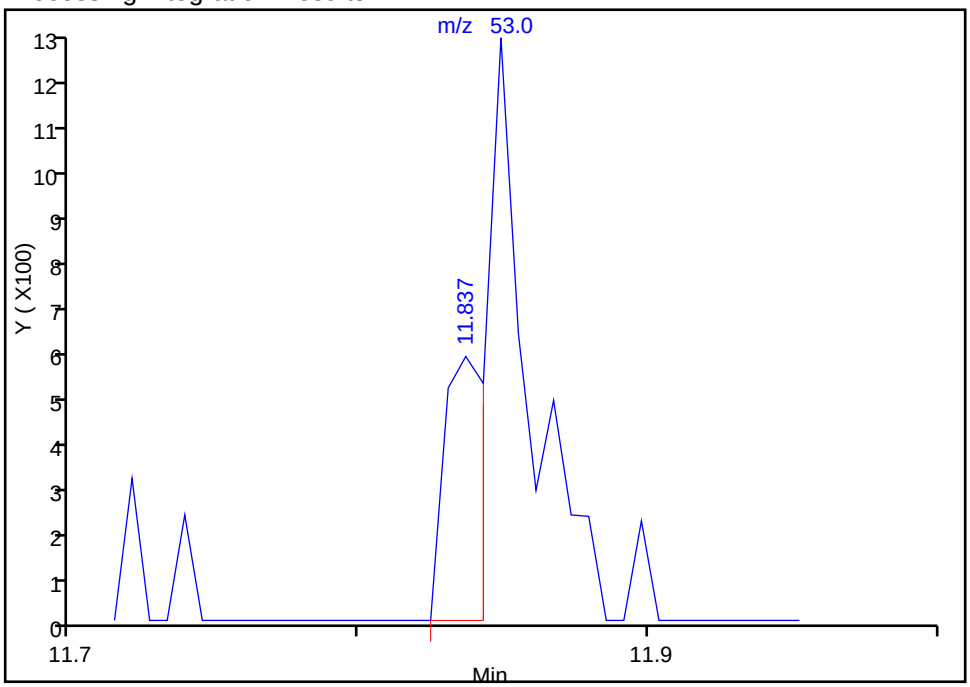
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

96 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

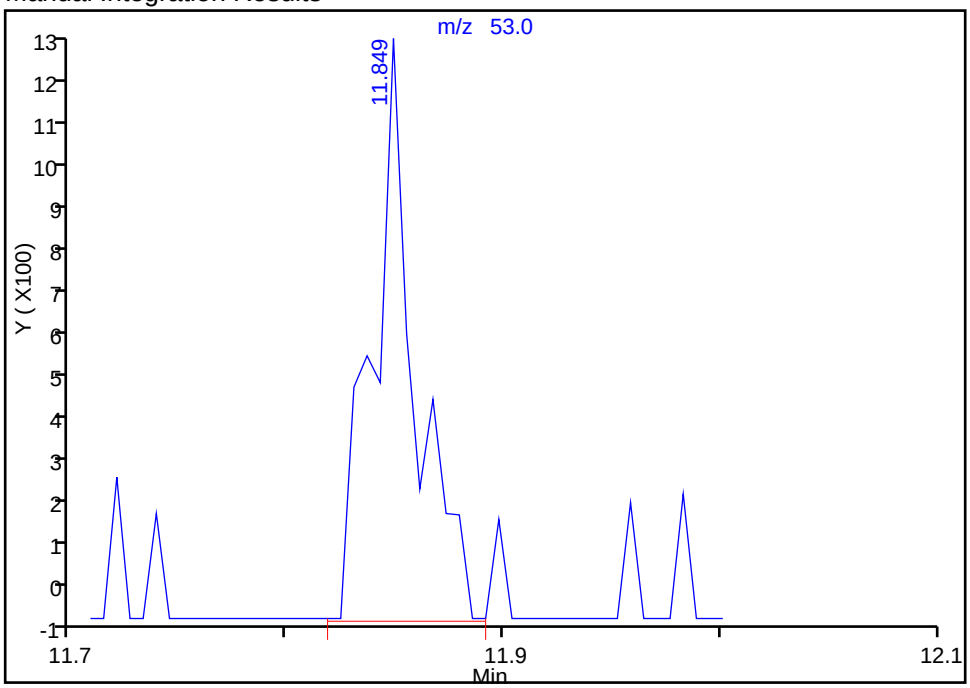
Processing Integration Results

RT: 11.84
Area: 586
Amount: 11.861555
Amount Units: ng



Manual Integration Results

RT: 11.85
Area: 1757
Amount: 30.693074
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 12:42:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

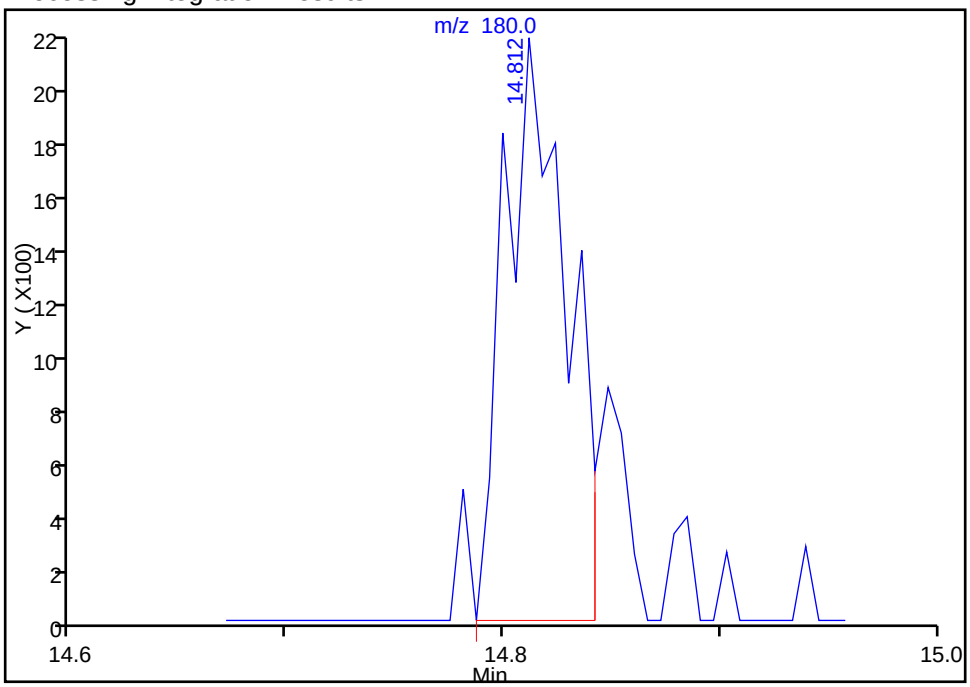
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011303.D
Injection Date: 13-Jan-2015 10:25:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

114 1,2,4-Trichlorobenzene, CAS: 120-82-1

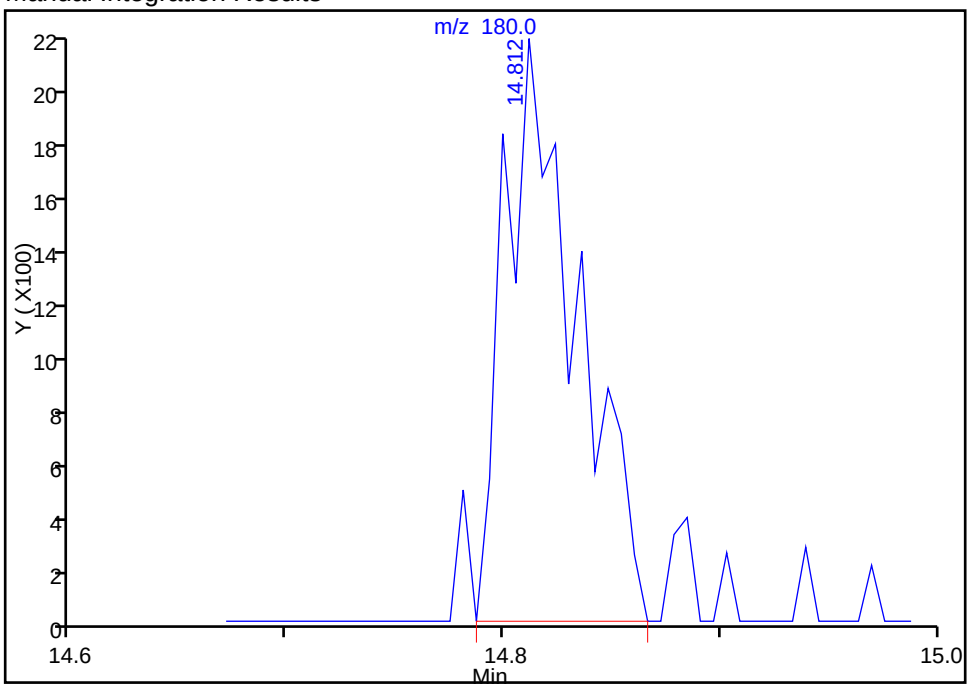
Processing Integration Results

RT: 14.81
Area: 4407
Amount: 25.000000
Amount Units: ng



Manual Integration Results

RT: 14.81
Area: 5072
Amount: 23.316547
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:37:51
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Jan-2015 10:53:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0005249-004
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub1

Method: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Feb-2015 14:20:58 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: journetp Date: 13-Jan-2015 13:09:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.731	4.607	0.124	91	80397	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.408	7.417	-0.009	97	406079	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.468	10.465	0.003	85	103318	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.786	12.789	-0.003	96	132853	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.672	6.675	-0.003	75	26315	50.0	53.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.037	7.211	-0.174	80	24680	50.0	51.8	
$ 7 Toluene-d8 (Surr)	98	9.039	9.035	0.004	92	84170	50.0	55.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.636	11.639	-0.003	84	30469	50.0	51.5	
10 Dichlorodifluoromethane	85	1.927	1.905	0.022	1	25067	50.0	46.1	M
11 Chloromethane	50	1.957	2.027	-0.070	69	31494	50.0	51.6	M
12 Vinyl chloride	62	2.152	2.136	0.016	36	24989	50.0	50.6	M
13 Butadiene	39	2.158	2.173	-0.015	36	29059	50.0	52.9	M
14 Bromomethane	94	2.462	2.508	-0.046	35	25749	50.0	61.5	M
15 Chloroethane	64	2.663	2.623	0.040	7	23426	50.0	69.9	M
16 Trichlorofluoromethane	101	2.870	2.891	-0.021	85	58866	50.0	55.6	
17 Dichlorofluoromethane	67	2.876	2.903	-0.027	79	60282	50.0	56.7	M
18 Ethyl ether	59	3.320	3.353	-0.033	52	16127	50.0	51.0	M
19 Acrolein	56	3.497	3.505	-0.009	3	28242	625.0	699.2	M
20 1,1-Dichloroethene	96	3.533	3.548	-0.015	76	34346	50.0	62.6	M
21 1,1,2-Trichloro-1,2,2-trif	101	3.661	3.657	0.004	1	39318	50.0	60.4	M
22 Acetone	43	3.819	3.773	0.046	1	9688	50.0	83.7	M
23 Iodomethane	142	3.734	3.773	-0.039	89	62025	50.0	59.5	
24 Carbon disulfide	76	3.807	3.828	-0.021	94	99753	50.0	57.3	M
26 3-Chloro-1-propene	76	4.178	4.162	0.016	1	23153	50.0	62.4	M
28 Methyl acetate	43	4.293	4.278	0.015	91	58339	250.0	300.5	M
29 Methylene Chloride	84	4.379	4.375	0.004	66	32474	50.0	59.3	
30 trans-1,2-Dichloroethene	96	4.731	4.746	-0.015	84	33566	50.0	57.3	
31 Acrylonitrile	53	4.817	4.777	0.040	71	45925	500.0	546.4	M
32 2-Methyl-2-propanol	59	4.853	4.831	0.022	62	7535	500.0	420.1	M
33 Methyl tert-butyl ether	73	4.829	4.850	-0.021	83	64735	50.0	54.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Hexane	57	5.176	5.160	0.016	89	35794	50.0	53.5	M
35 Vinyl acetate	43	5.145	5.166	-0.021	62	24349	50.0	73.3	
36 1,1-Dichloroethane	63	5.346	5.349	-0.003	94	46278	50.0	52.2	M
41 cis-1,2-Dichloroethene	96	6.100	6.091	0.009	68	30074	50.0	51.1	M
42 2,2-Dichloropropane	77	6.082	6.097	-0.015	77	46721	50.0	54.1	M
43 2-Butanone (MEK)	43	6.204	6.170	0.034	75	6537	50.0	54.4	
46 Chlorobromomethane	128	6.380	6.395	-0.015	84	15238	50.0	54.8	
48 Tetrahydrofuran	42	6.483	6.450	0.033	1	5060	100.0	87.8	M
49 Chloroform	83	6.496	6.498	-0.002	94	52286	50.0	57.0	M
50 1,1,1-Trichloroethane	97	6.678	6.681	-0.003	96	55539	50.0	58.6	M
51 Isobutyl alcohol	41	6.721	6.723	-0.002	24	29189	1250.0	1361.0	
52 Cyclohexane	56	6.733	6.729	0.004	94	45416	50.0	57.6	M
53 Carbon tetrachloride	117	6.861	6.857	0.004	64	51451	50.0	55.9	M
54 1,1-Dichloropropene	75	6.842	6.863	-0.021	1	8441	50.0	6.33	
55 Benzene	78	7.092	7.088	0.004	94	95549	50.0	53.6	
56 1,2-Dichloroethane	62	7.116	7.131	-0.015	93	31199	50.0	58.3	M
59 n-Heptane	43	7.402	7.405	-0.003	42	29639	50.0	50.0	
60 Trichloroethene	130	7.785	7.788	-0.003	91	30490	50.0	51.1	
63 Methylcyclohexane	83	7.992	7.983	0.009	89	49789	50.0	53.9	
64 1,2-Dichloropropane	63	8.029	8.025	0.004	87	18215	50.0	51.3	
65 Dibromomethane	93	8.156	8.153	0.003	90	12586	50.0	49.2	
67 1,4-Dioxane	88	8.181	8.177	0.004	1	203	1000.0	1209.8	M
68 Dichlorobromomethane	83	8.321	8.311	0.010	96	31951	50.0	50.8	
71 cis-1,3-Dichloropropene	75	8.771	8.767	0.004	93	28469	50.0	45.5	
72 4-Methyl-2-pentanone (MIBK	43	8.941	8.932	0.009	92	10179	50.0	42.7	
73 Toluene	91	9.093	9.102	-0.009	97	93909	50.0	54.5	
74 trans-1,3-Dichloropropene	75	9.331	9.327	0.004	93	24694	50.0	51.0	
75 Ethyl methacrylate	69	9.428	9.418	0.010	88	16559	50.0	49.1	
76 1,1,2-Trichloroethane	97	9.507	9.510	-0.003	93	14989	50.0	52.3	
77 Tetrachloroethene	164	9.641	9.650	-0.009	91	21957	50.0	53.4	
78 1,3-Dichloropropane	76	9.671	9.668	0.003	93	23796	50.0	53.3	
79 2-Hexanone	43	9.769	9.765	0.004	71	4094	50.0	42.7	
81 Chlorodibromomethane	129	9.896	9.893	0.003	87	23037	50.0	48.8	
82 Ethylene Dibromide	107	10.018	10.015	0.003	98	14560	50.0	47.7	
83 Chlorobenzene	112	10.499	10.495	0.004	96	61843	50.0	50.1	
84 1,1,1,2-Tetrachloroethane	131	10.578	10.574	0.004	94	27037	50.0	52.6	
85 Ethylbenzene	106	10.602	10.605	-0.003	98	37037	50.0	55.1	
86 m-Xylene & p-Xylene	106	10.718	10.720	-0.002	98	44801	50.0	51.9	
88 o-Xylene	106	11.119	11.116	0.003	97	43218	50.0	49.6	
89 Styrene	104	11.125	11.128	-0.003	92	71226	50.0	54.5	
90 Bromoform	173	11.320	11.310	0.010	91	12614	50.0	52.3	
91 Isopropylbenzene	105	11.478	11.481	-0.003	96	131950	50.0	53.2	
93 1,1,2,2-Tetrachloroethane	83	11.782	11.773	0.009	54	13336	50.0	46.3	
94 Bromobenzene	156	11.788	11.785	0.003	93	25983	50.0	49.4	
95 1,2,3-Trichloropropane	110	11.813	11.821	-0.008	83	5220	50.0	51.1	
96 trans-1,4-Dichloro-2-buten	53	11.837	11.827	0.010	19	1373	50.0	25.3	
97 N-Propylbenzene	120	11.886	11.888	-0.002	98	35149	50.0	50.3	
98 2-Chlorotoluene	126	11.983	11.980	0.003	97	32301	50.0	53.4	
99 1,3,5-Trimethylbenzene	105	12.062	12.059	0.003	95	110277	50.0	56.5	
100 4-Chlorotoluene	126	12.086	12.083	0.003	98	31836	50.0	54.4	
101 tert-Butylbenzene	119	12.384	12.387	-0.003	90	101119	50.0	54.4	
103 1,2,4-Trimethylbenzene	105	12.439	12.436	0.003	96	105776	50.0	55.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
104 sec-Butylbenzene	105	12.610	12.606	0.004	94	138339	50.0	55.6	
105 1,3-Dichlorobenzene	146	12.719	12.722	-0.003	95	51747	50.0	52.5	
106 4-Isopropyltoluene	119	12.749	12.752	-0.003	98	114322	50.0	54.9	
107 1,4-Dichlorobenzene	146	12.810	12.807	0.003	95	48097	50.0	51.4	
110 n-Butylbenzene	91	13.163	13.160	0.003	97	92565	50.0	53.9	
111 1,2-Dichlorobenzene	146	13.187	13.190	-0.003	94	36745	50.0	47.7	
112 1,2-Dibromo-3-Chloropropan	157	13.990	13.975	0.015	1	734	50.0	61.6	
114 1,2,4-Trichlorobenzene	180	14.806	14.802	0.004	92	10664	50.0	48.6	M
115 Hexachlorobutadiene	225	14.970	14.973	-0.003	88	6163	50.0	48.2	
116 Naphthalene	128	15.067	15.058	0.009	94	17991	50.0	45.8	
117 1,2,3-Trichlorobenzene	180	15.311	15.307	0.004	85	6597	50.0	69.2	M
S 130 1,2-Dichloroethene, Total	96				0		100.0	108.4	
S 129 Xylenes, Total	106				0		100.0	101.5	
S 131 1,3-Dichloropropene, Total	1				0		100.0	96.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

voaWAcropri R_00006	Amount Added:	25.00	Units: uL
voaWVApri Res_00001	Amount Added:	2.00	Units: uL
VOA8260VOAPRI_00095	Amount Added:	2.00	Units: uL
VOA8260SURR_00017	Amount Added:	2.00	Units: uL
VOA8260INT_00027	Amount Added:	10.00	Units: uL

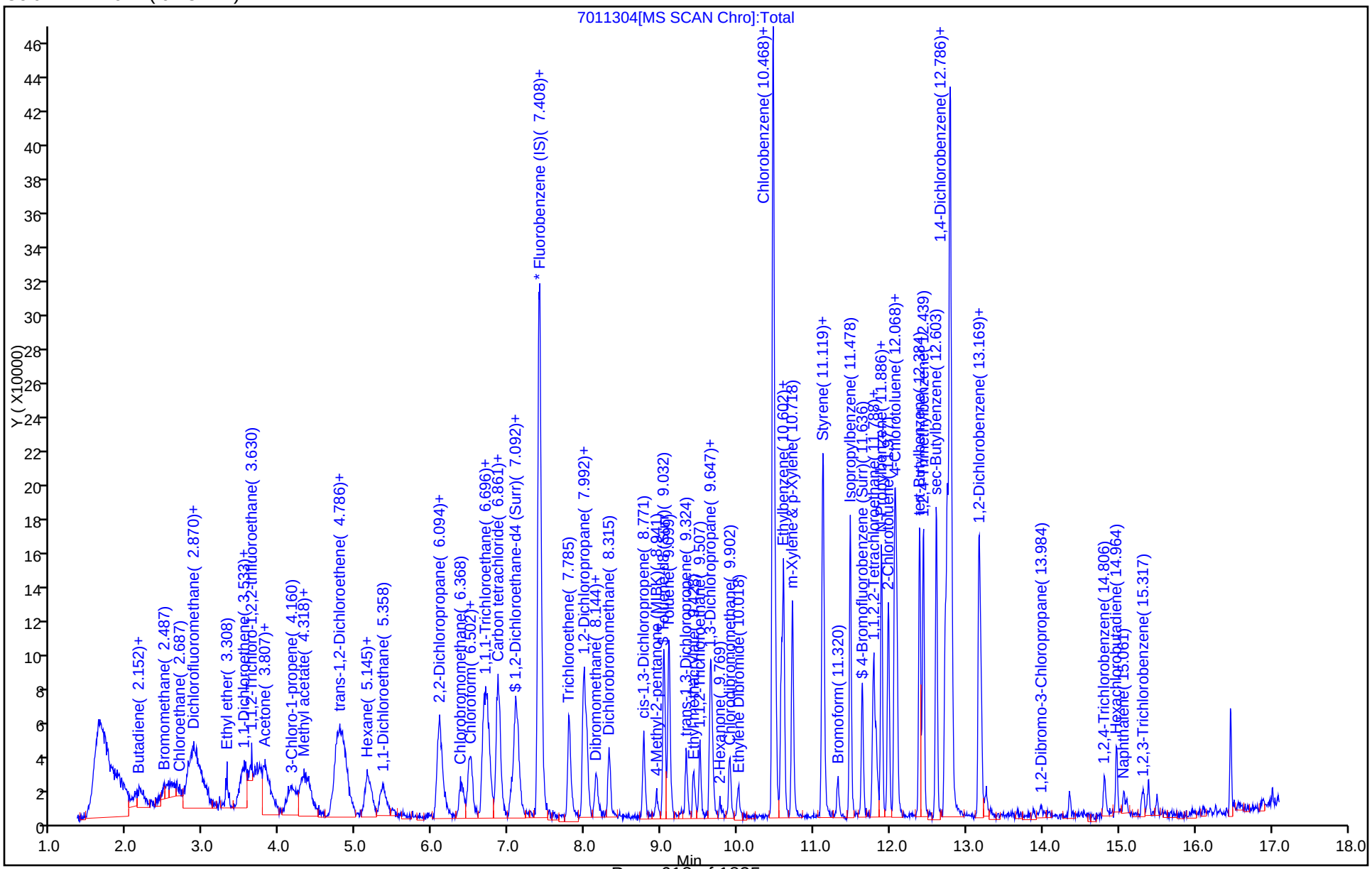
Report Date: 17-Feb-2015 14:21:00 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D

Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

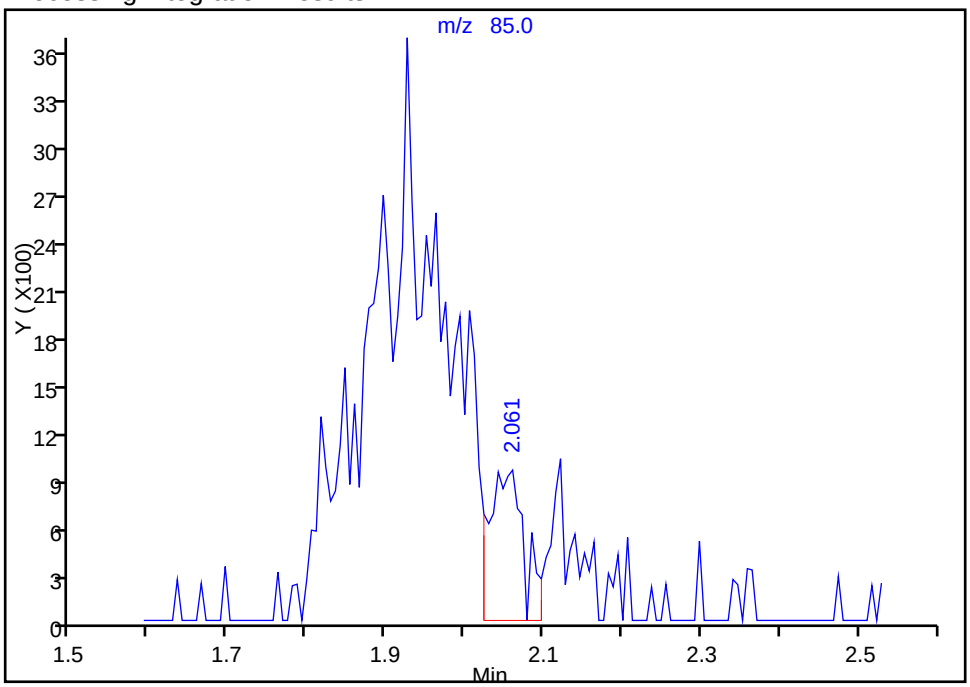
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

10 Dichlorodifluoromethane, CAS: 75-71-8

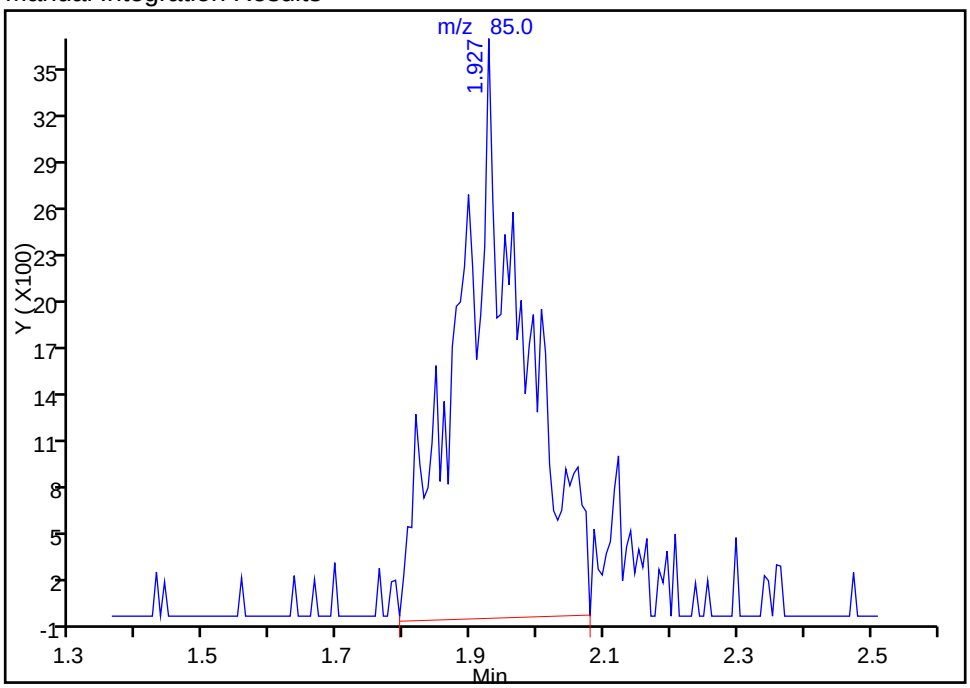
Processing Integration Results

RT: 2.06
Area: 2922
Amount: 8.202743
Amount Units: ng



Manual Integration Results

RT: 1.93
Area: 25067
Amount: 46.051440
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

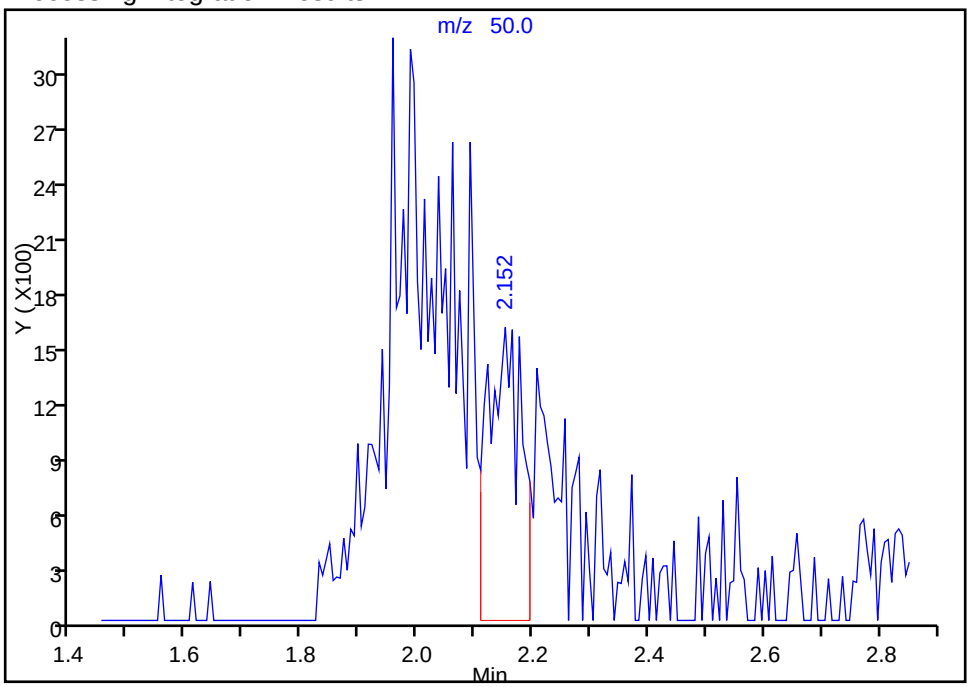
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Chloromethane, CAS: 74-87-3

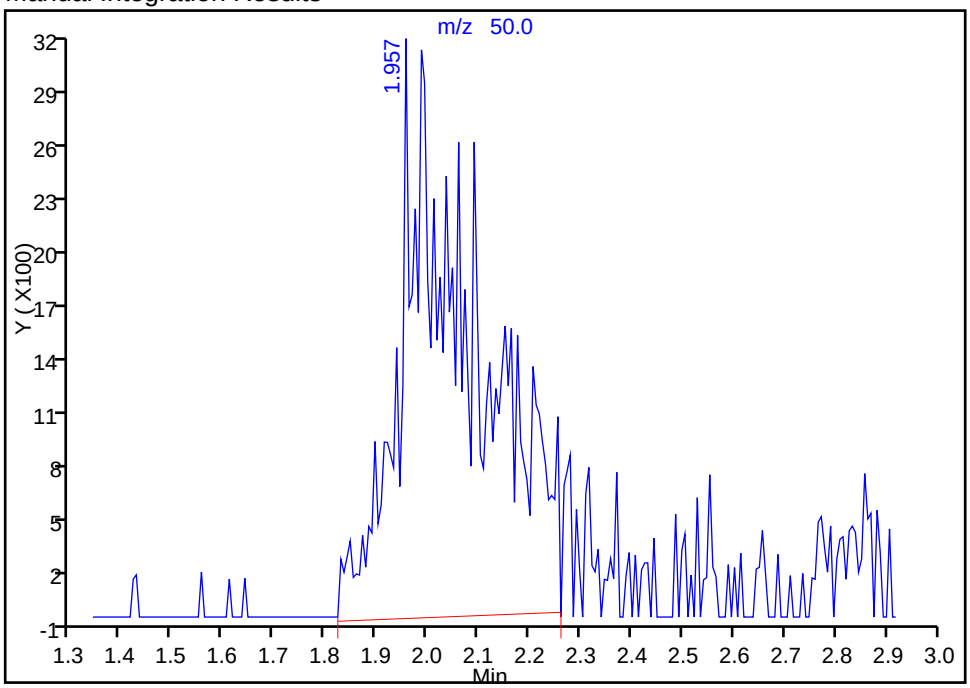
Processing Integration Results

RT: 2.15
Area: 6297
Amount: 21.458622
Amount Units: ng



Manual Integration Results

RT: 1.96
Area: 31494
Amount: 51.577950
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

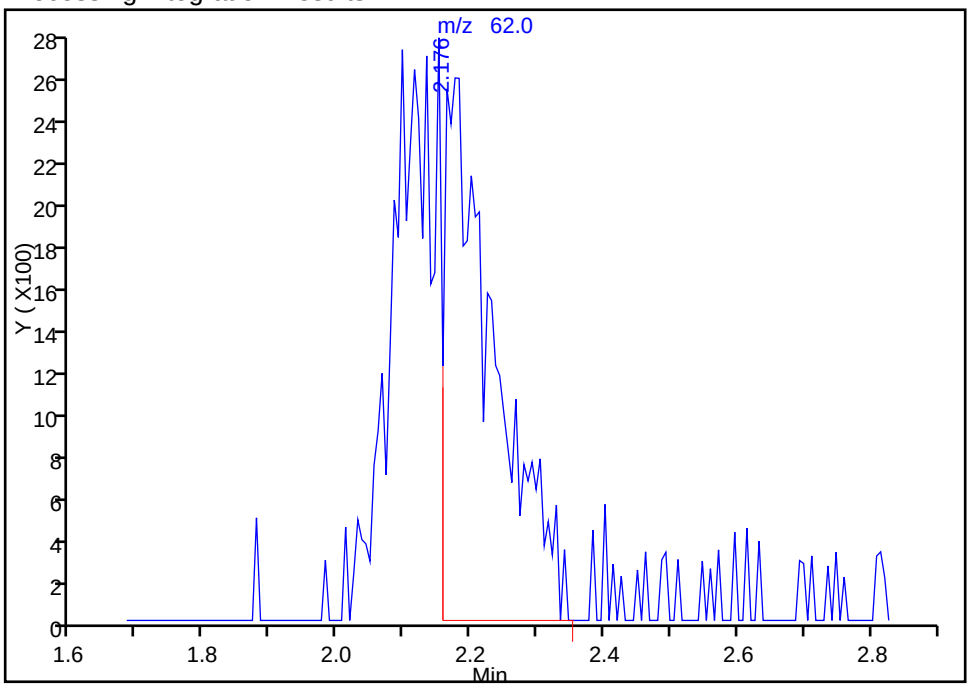
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

12 Vinyl chloride, CAS: 75-01-4

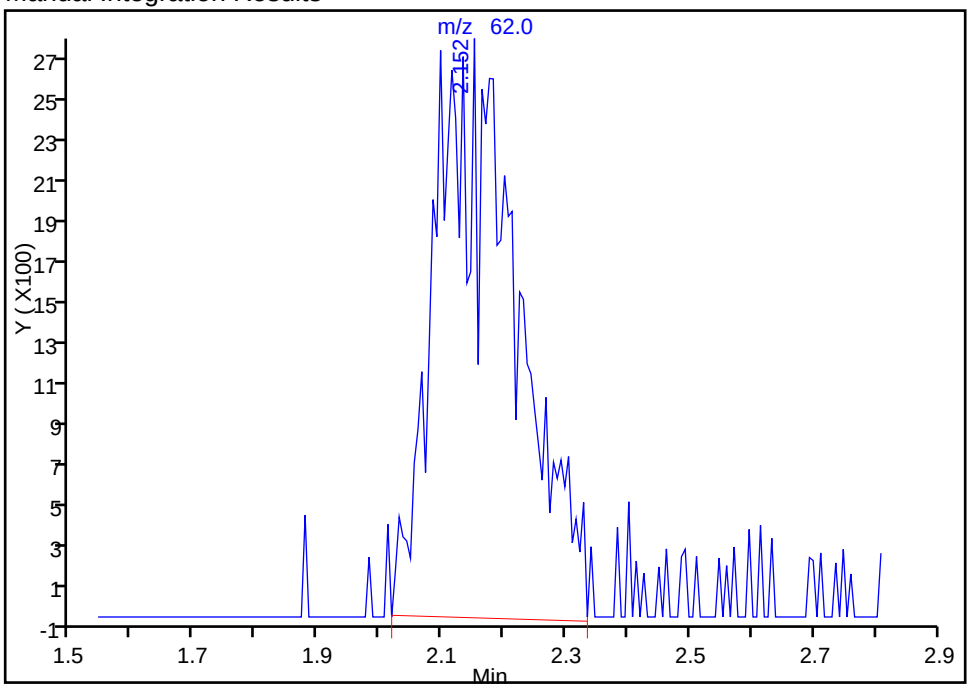
Processing Integration Results

RT: 2.18
Area: 13218
Amount: 31.416682
Amount Units: ng



Manual Integration Results

RT: 2.15
Area: 24989
Amount: 50.633385
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

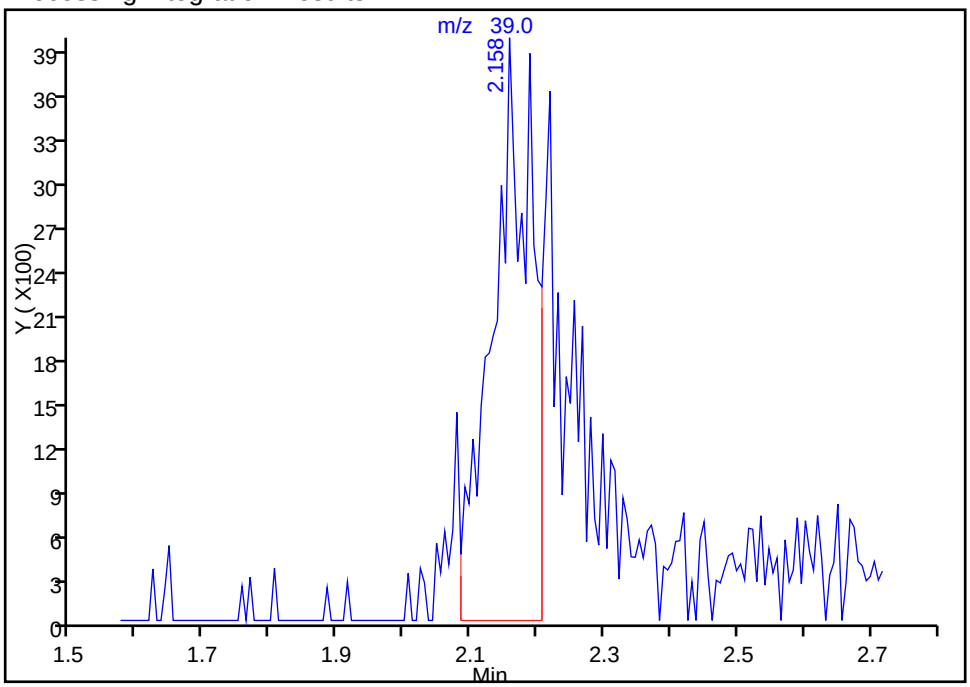
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

13 Butadiene, CAS: 106-99-0

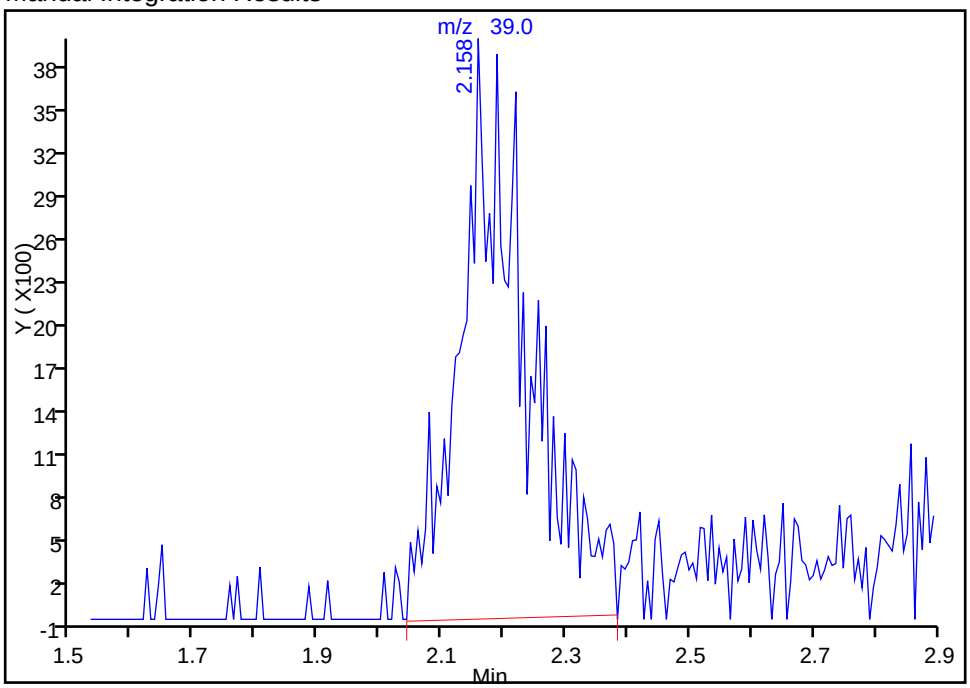
Processing Integration Results

RT: 2.16
Area: 16163
Amount: 32.544658
Amount Units: ng



Manual Integration Results

RT: 2.16
Area: 29059
Amount: 52.902247
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

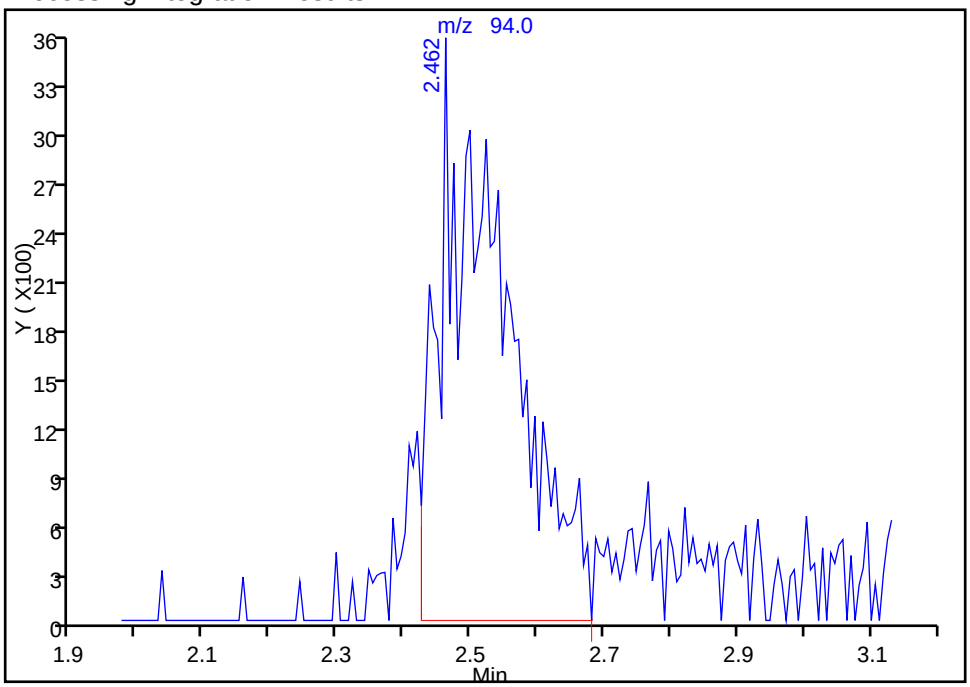
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

14 Bromomethane, CAS: 74-83-9

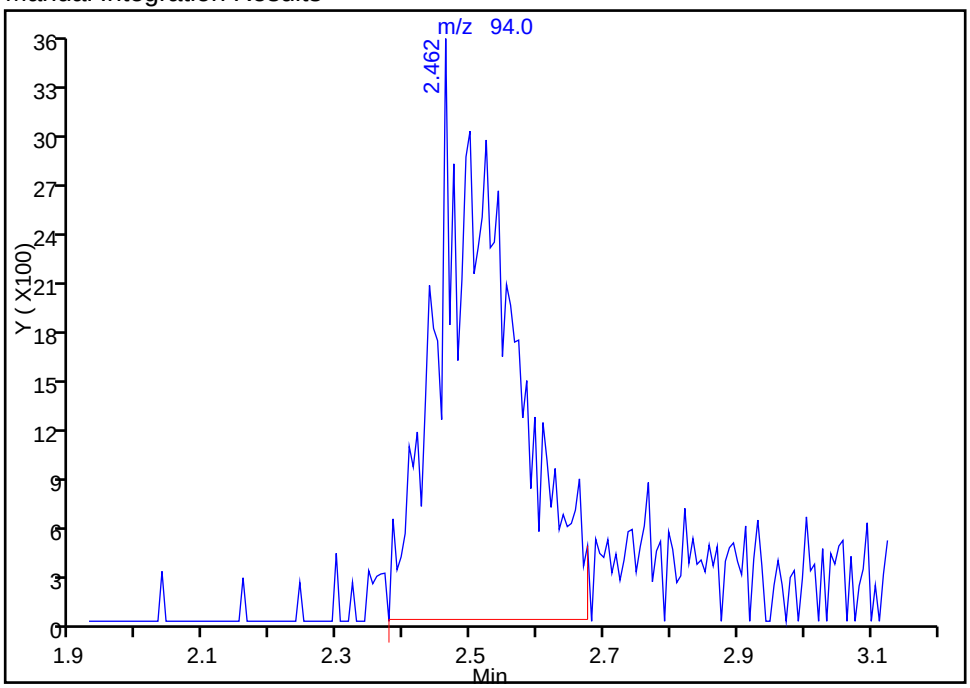
Processing Integration Results

RT: 2.46
Area: 24122
Amount: 51.203183
Amount Units: ng



Manual Integration Results

RT: 2.46
Area: 25749
Amount: 61.500904
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

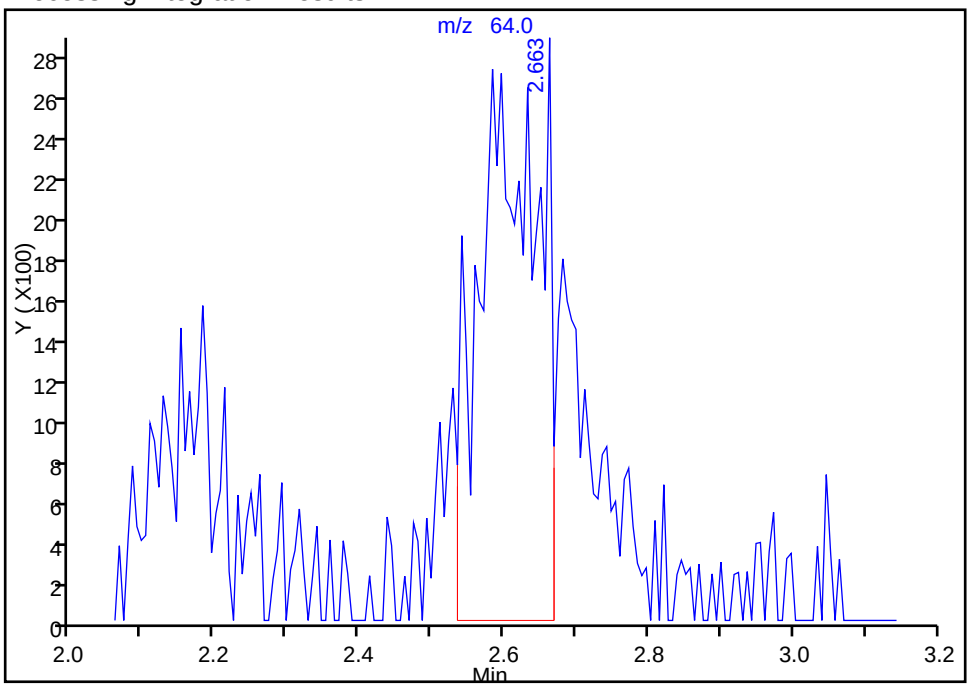
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

15 Chloroethane, CAS: 75-00-3

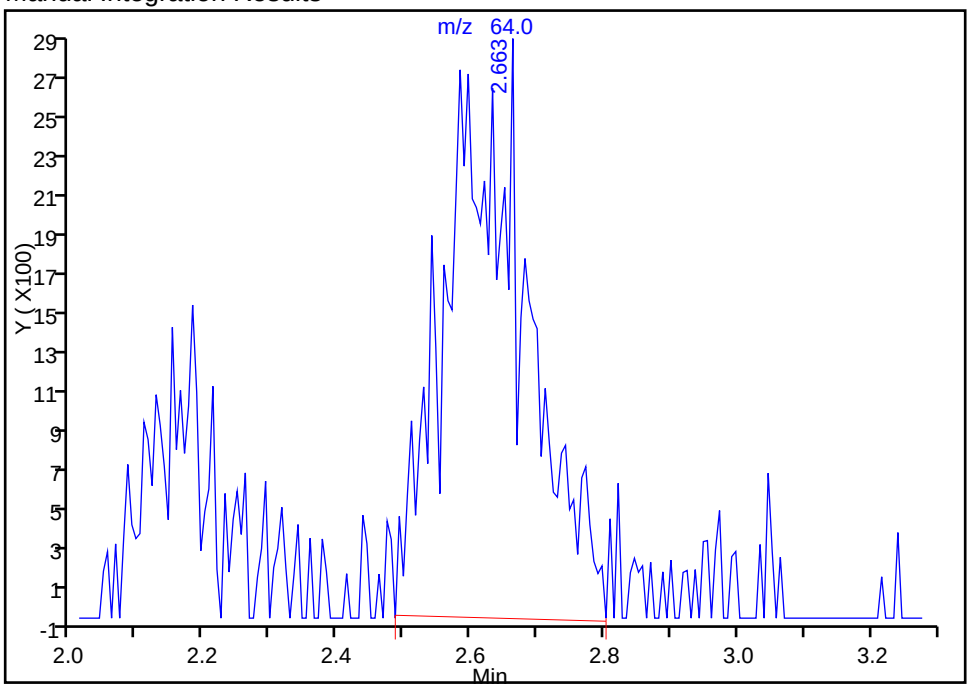
Processing Integration Results

RT: 2.66
Area: 15388
Amount: 39.459035
Amount Units: ng



Manual Integration Results

RT: 2.66
Area: 23426
Amount: 69.887201
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

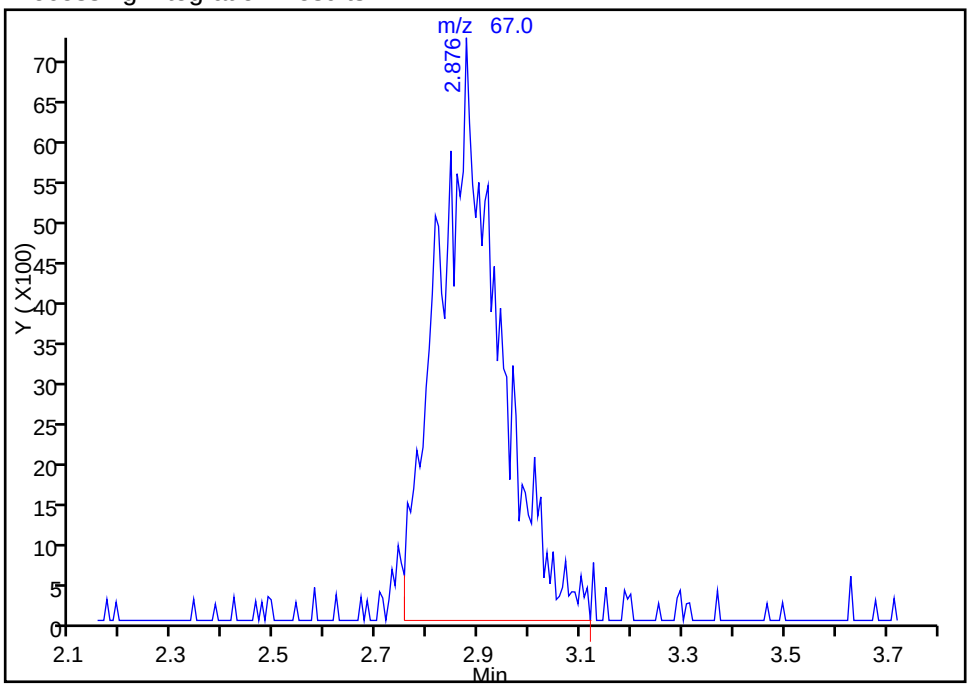
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

17 Dichlorofluoromethane, CAS: 75-43-4

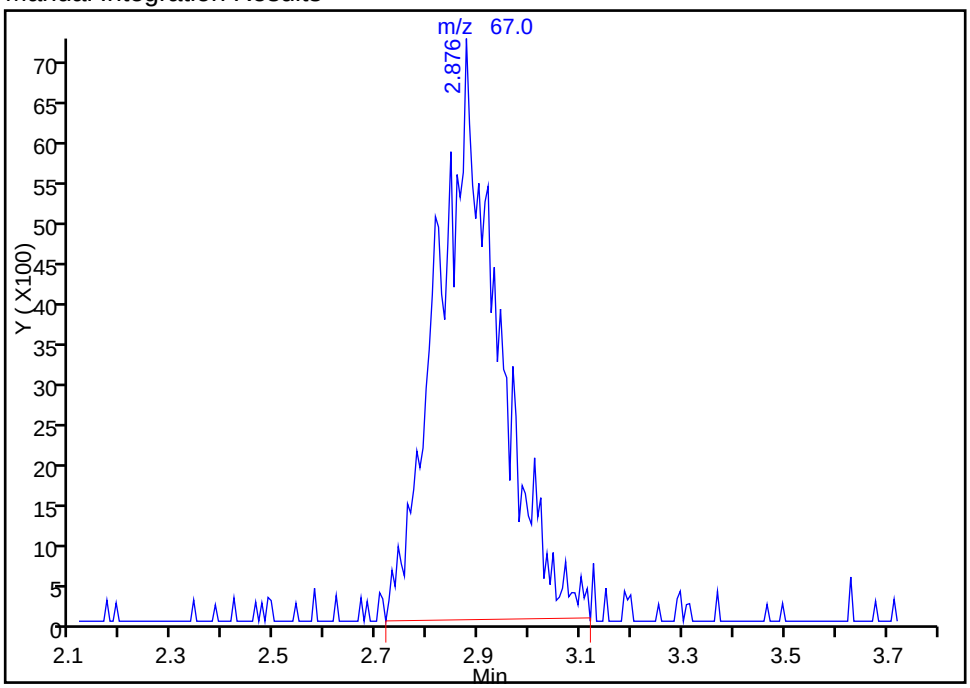
Processing Integration Results

RT: 2.88
Area: 59752
Amount: 54.316249
Amount Units: ng



Manual Integration Results

RT: 2.88
Area: 60282
Amount: 56.715405
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

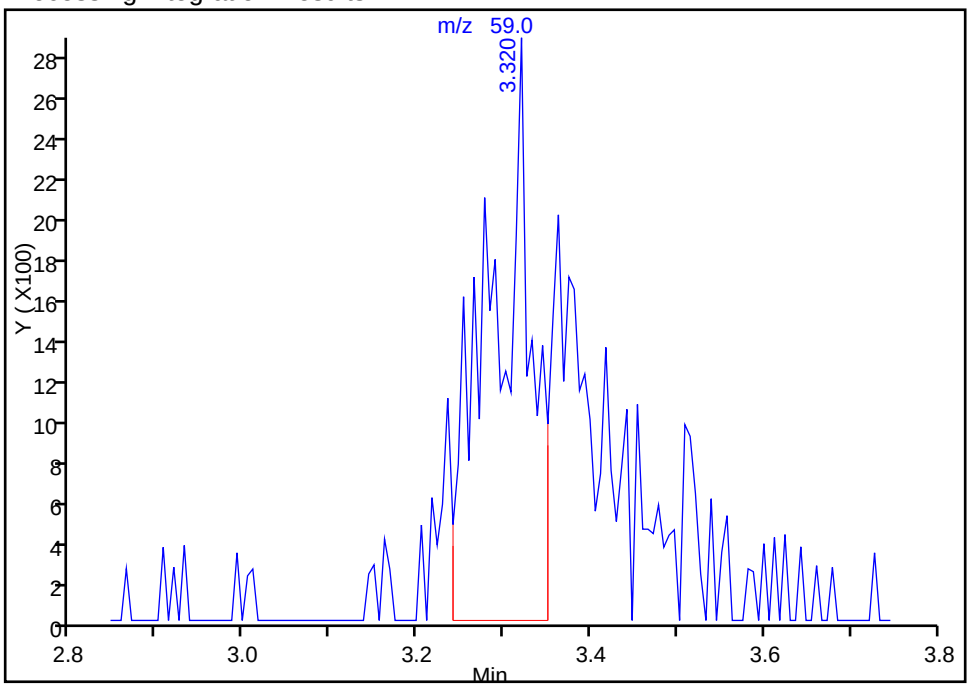
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

18 Ethyl ether, CAS: 60-29-7

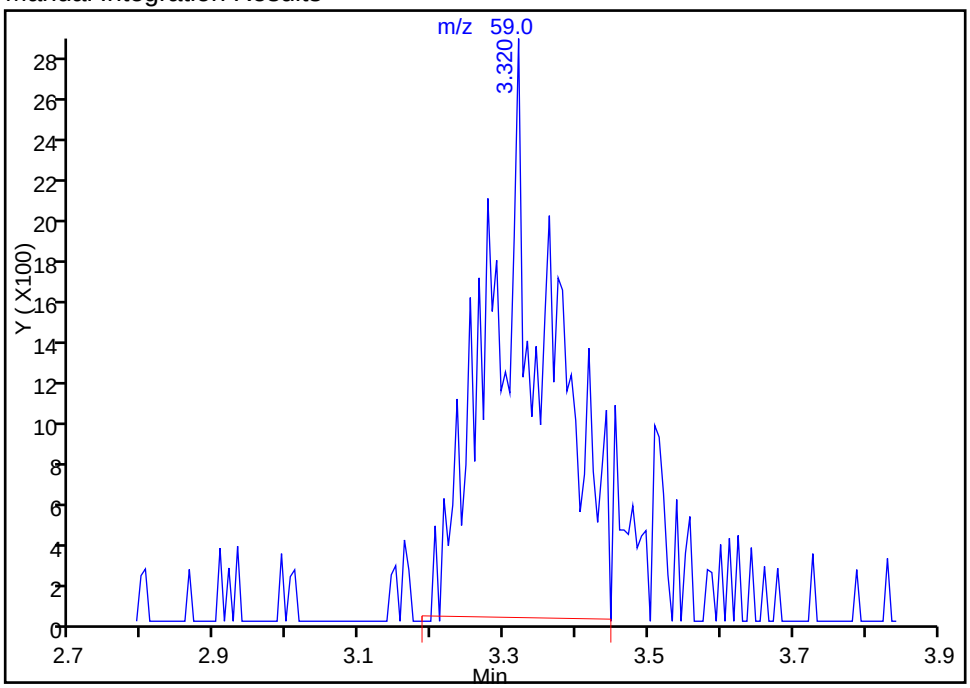
Processing Integration Results

RT: 3.32
Area: 9240
Amount: 32.851241
Amount Units: ng



Manual Integration Results

RT: 3.32
Area: 16127
Amount: 51.030761
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
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Manual Integration/User Assign Peak Report

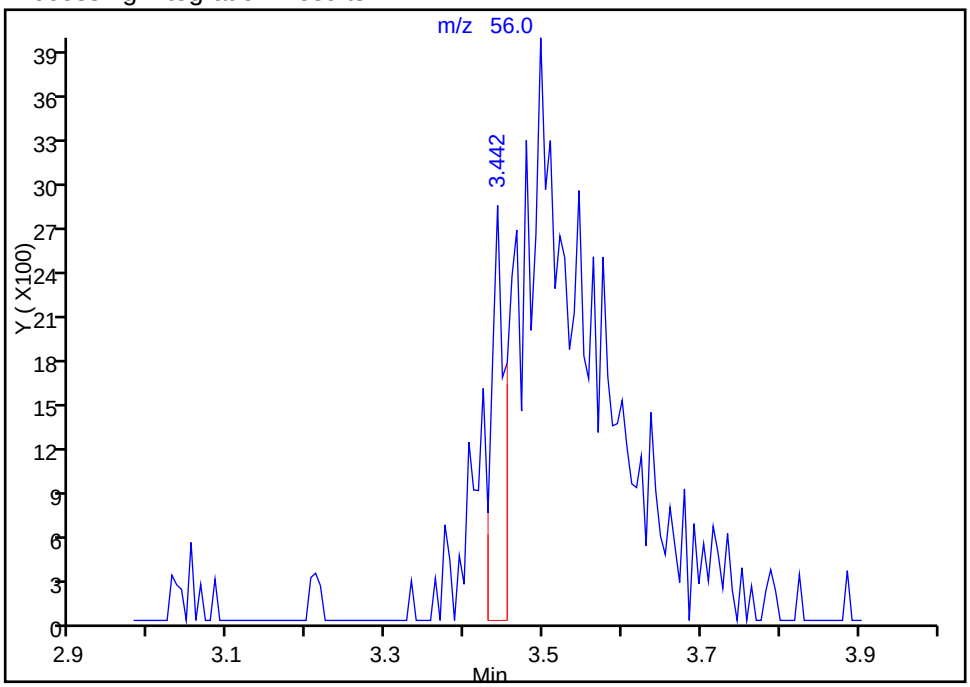
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

19 Acrolein, CAS: 107-02-8

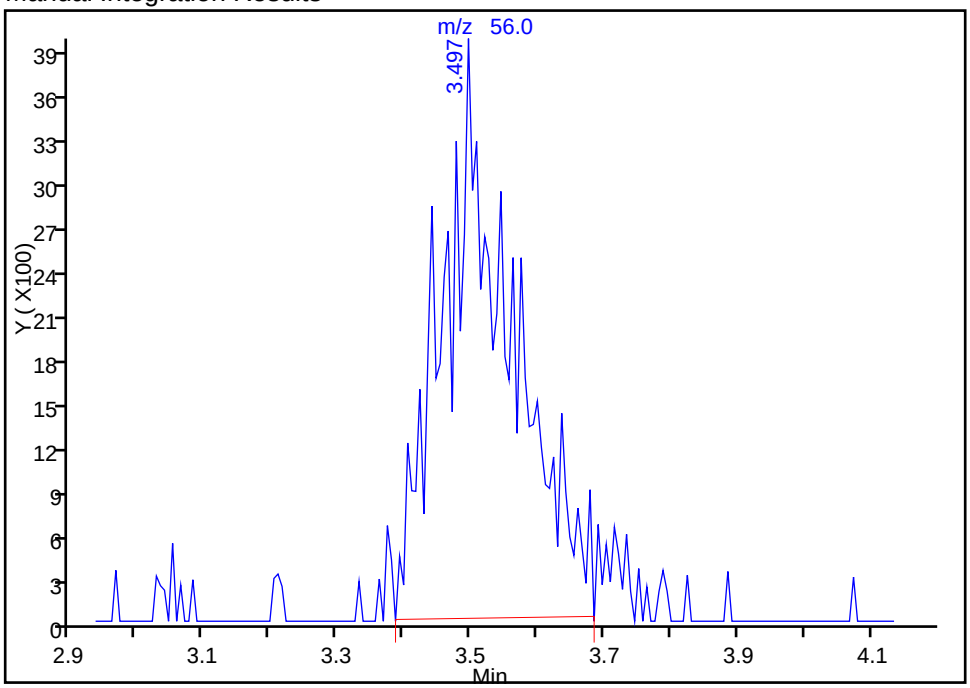
Processing Integration Results

RT: 3.44
Area: 3203
Amount: 97.583316
Amount Units: ng



Manual Integration Results

RT: 3.50
Area: 28242
Amount: 699.1824
Amount Units: ng



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Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

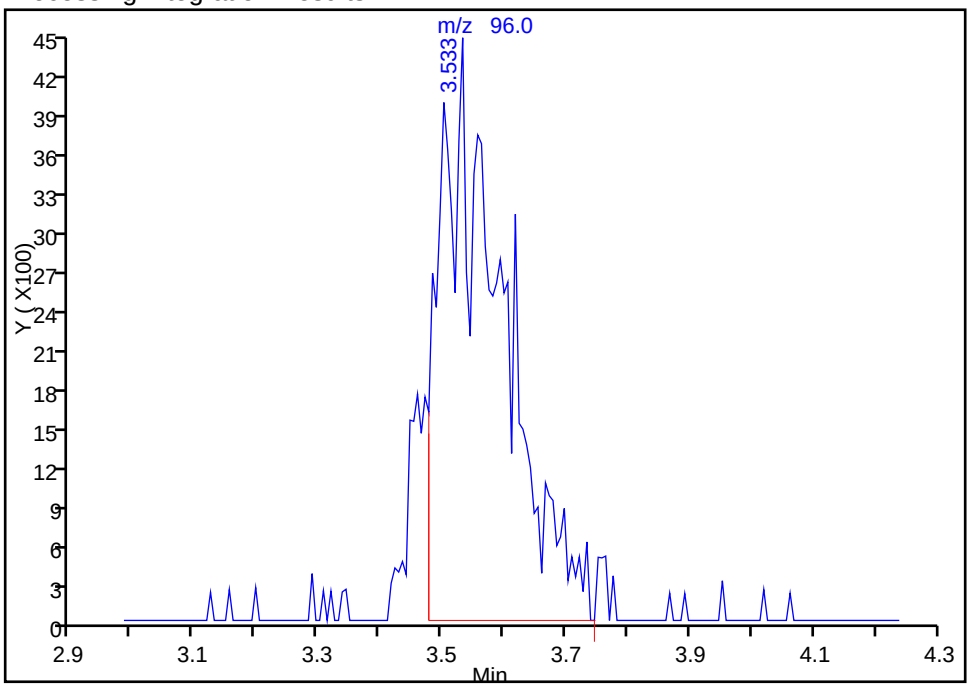
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

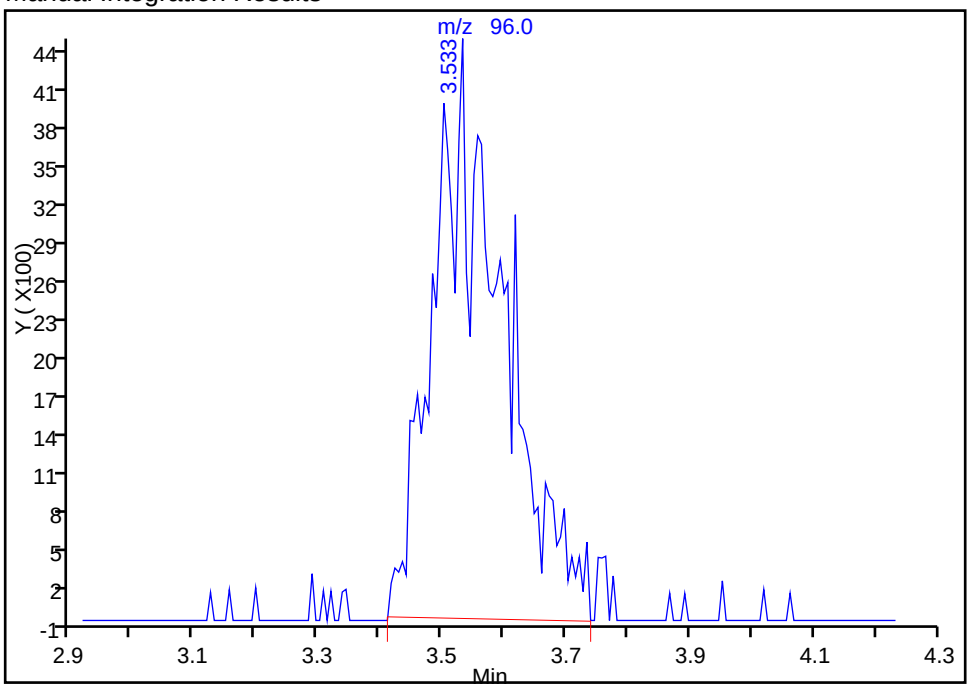
Processing Integration Results

RT: 3.53
Area: 30975
Amount: 55.023843
Amount Units: ng



Manual Integration Results

RT: 3.53
Area: 34346
Amount: 62.621921
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

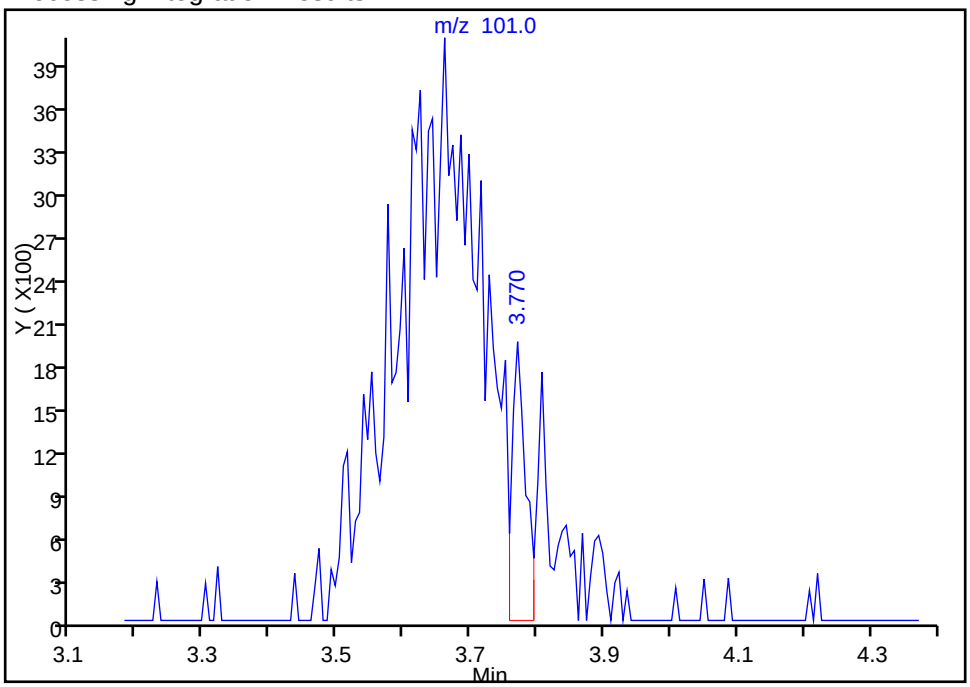
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

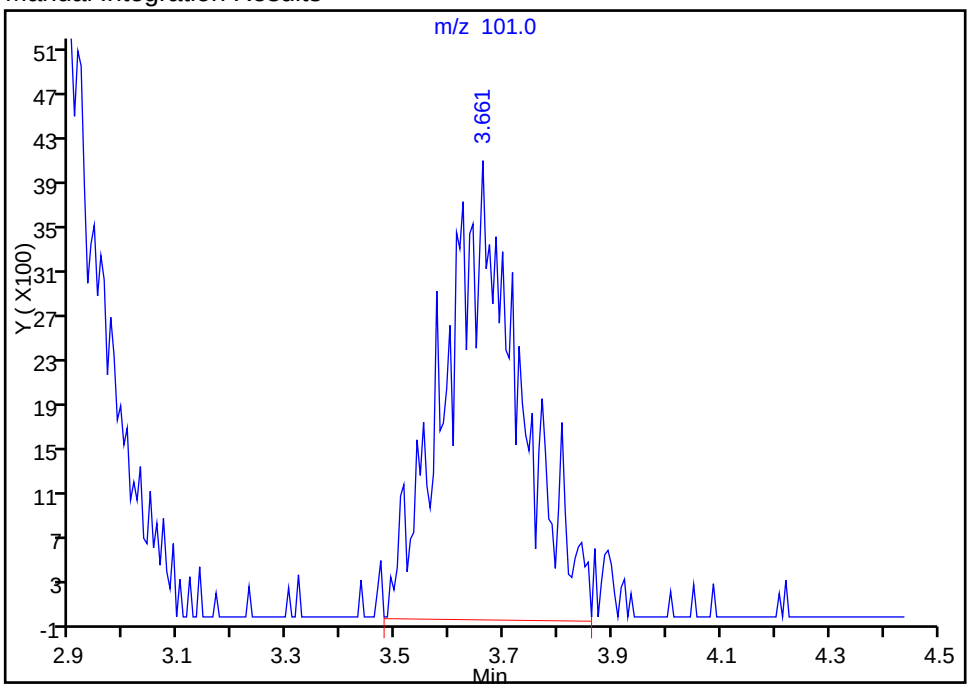
Processing Integration Results

RT: 3.77
Area: 2765
Amount: 5.551868
Amount Units: ng



Manual Integration Results

RT: 3.66
Area: 39318
Amount: 60.380362
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
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Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

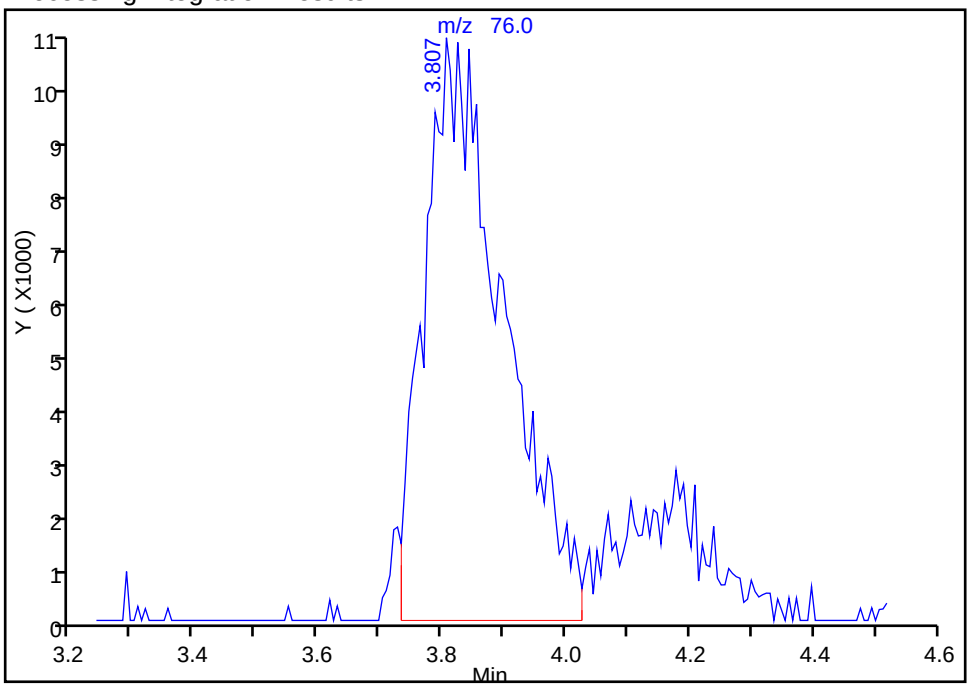
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

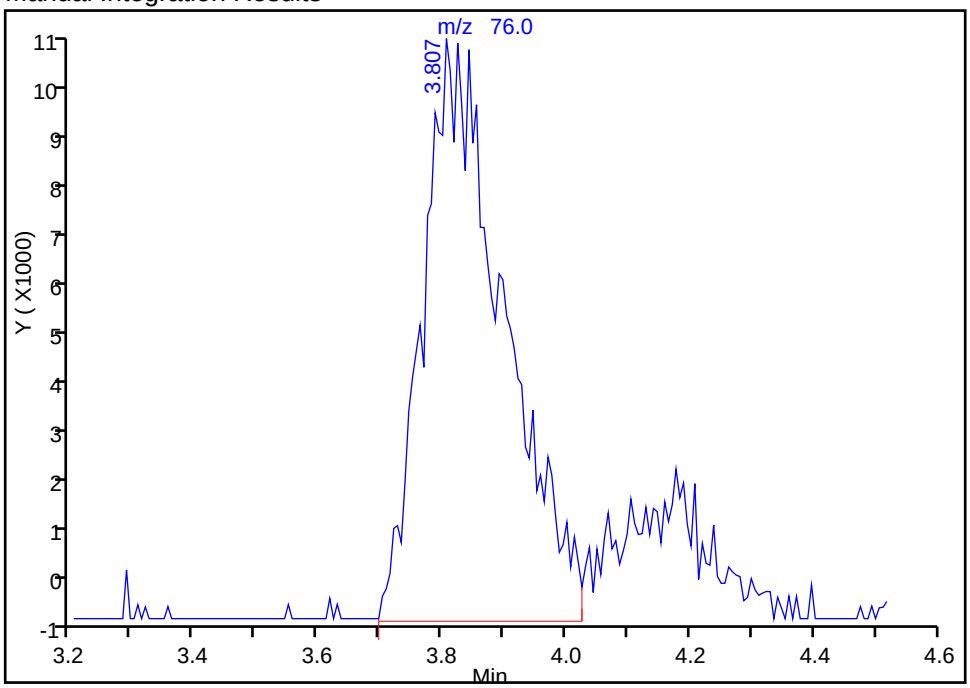
Processing Integration Results

RT: 3.81
Area: 96835
Amount: 48.974388
Amount Units: ng



Manual Integration Results

RT: 3.81
Area: 99753
Amount: 57.315826
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

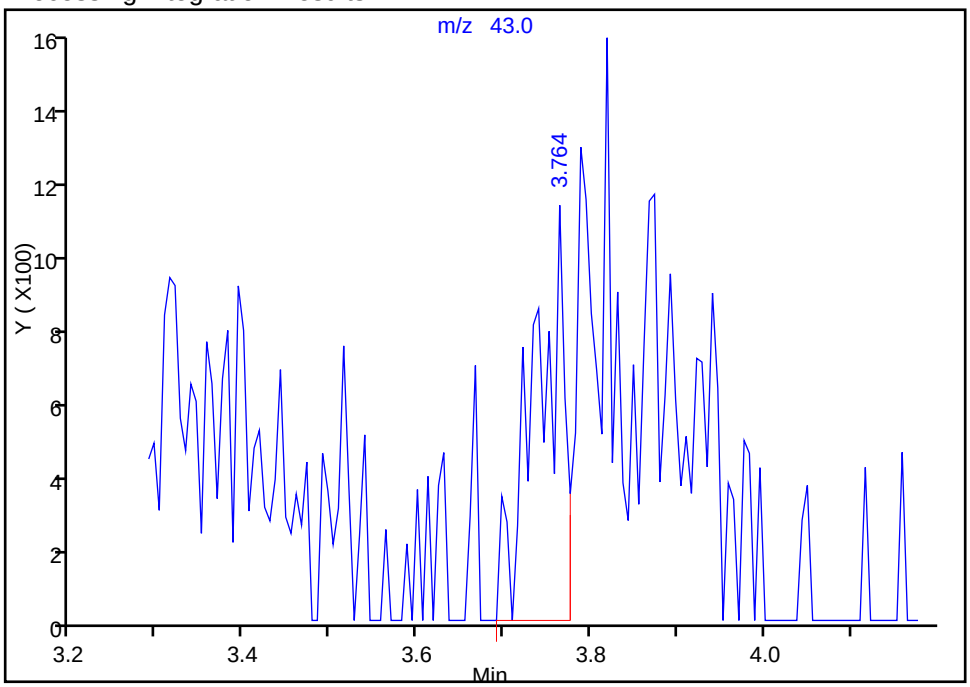
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

22 Acetone, CAS: 67-64-1

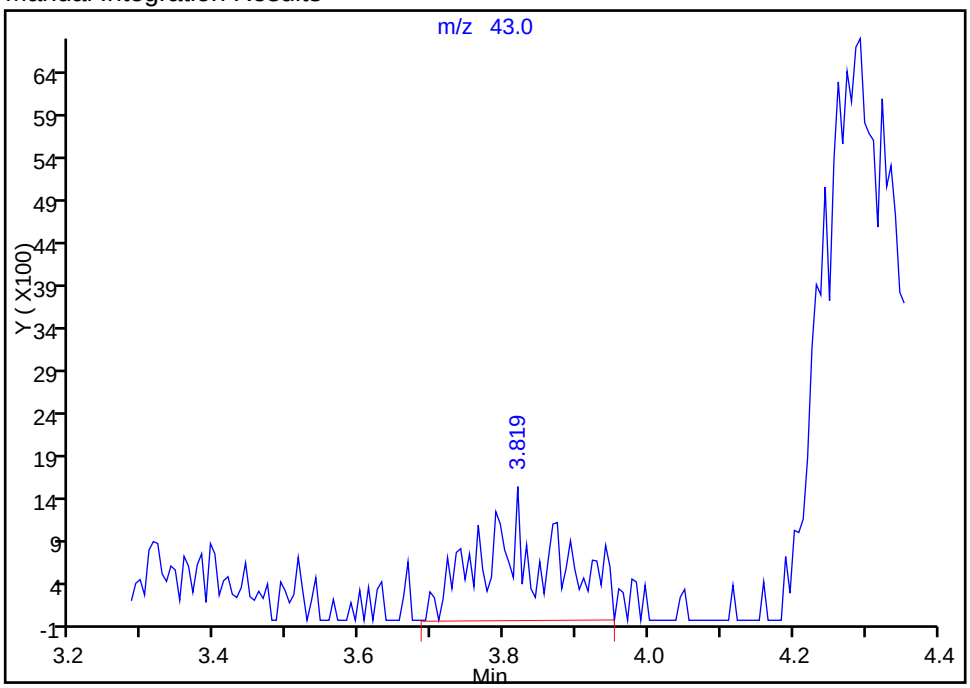
Processing Integration Results

RT: 3.76
Area: 2628
Amount: 30.248223
Amount Units: ng



Manual Integration Results

RT: 3.82
Area: 9688
Amount: 83.720571
Amount Units: ng



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Manual Integration/User Assign Peak Report

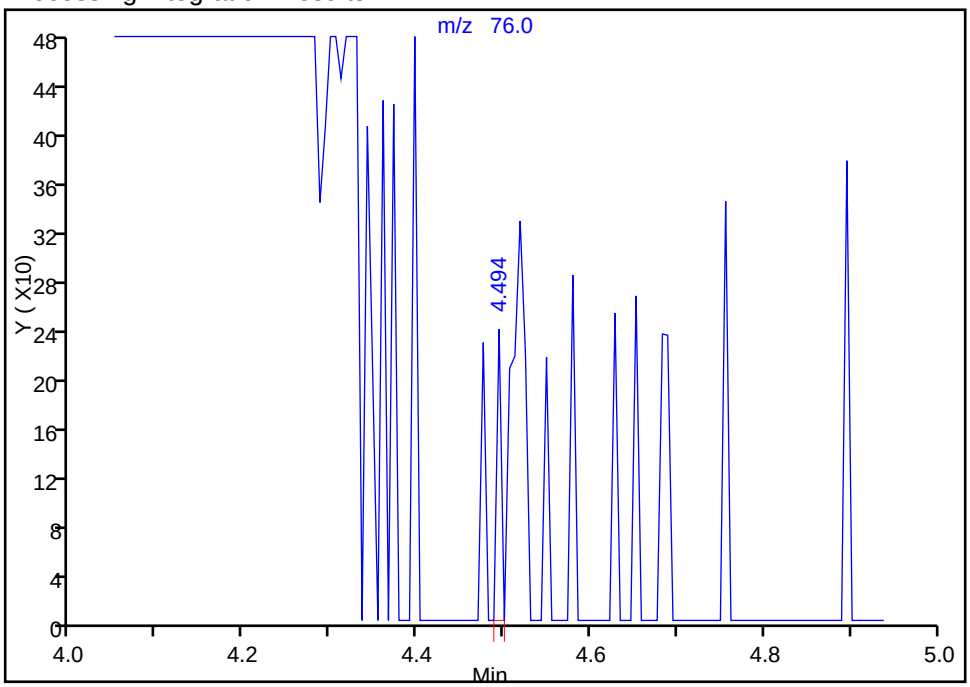
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

26 3-Chloro-1-propene, CAS: 107-05-1

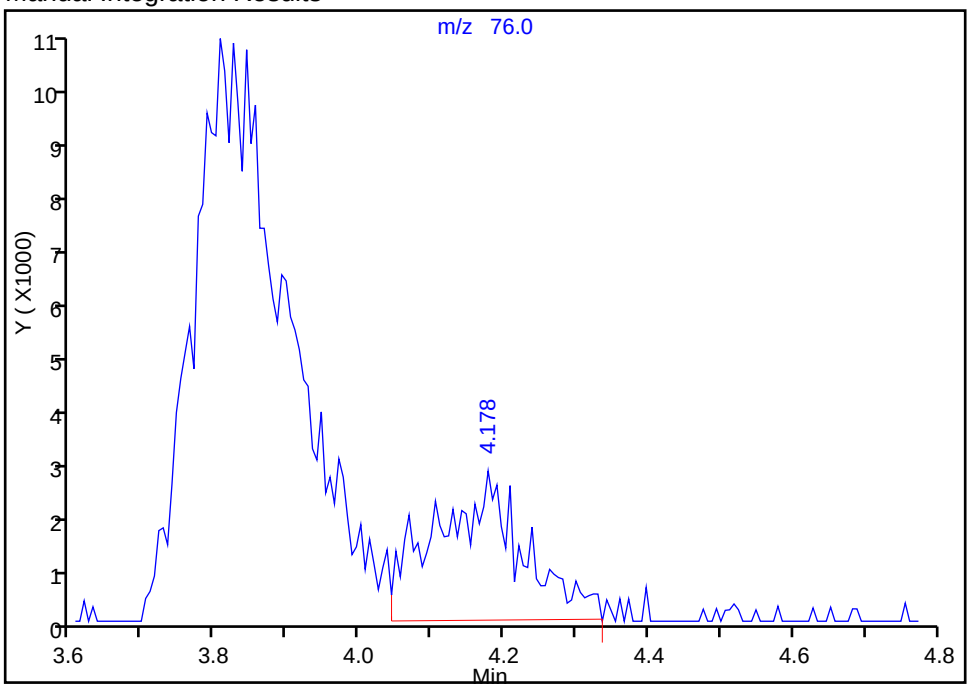
Processing Integration Results

RT: 4.49
Area: 87
Amount: 0.385382
Amount Units: ng



Manual Integration Results

RT: 4.18
Area: 23153
Amount: 62.392541
Amount Units: ng



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Manual Integration/User Assign Peak Report

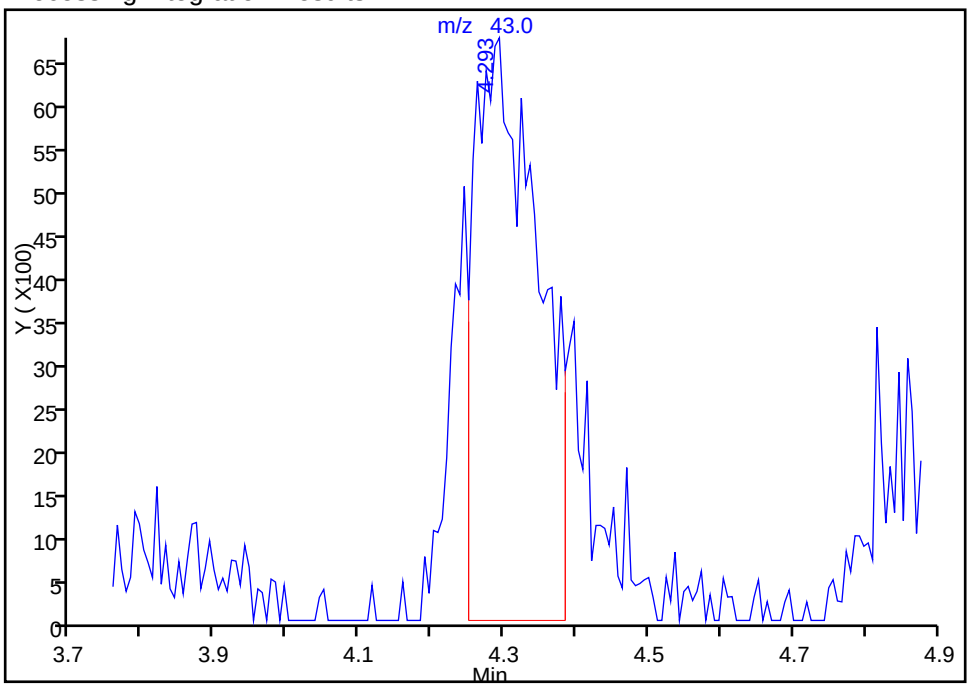
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

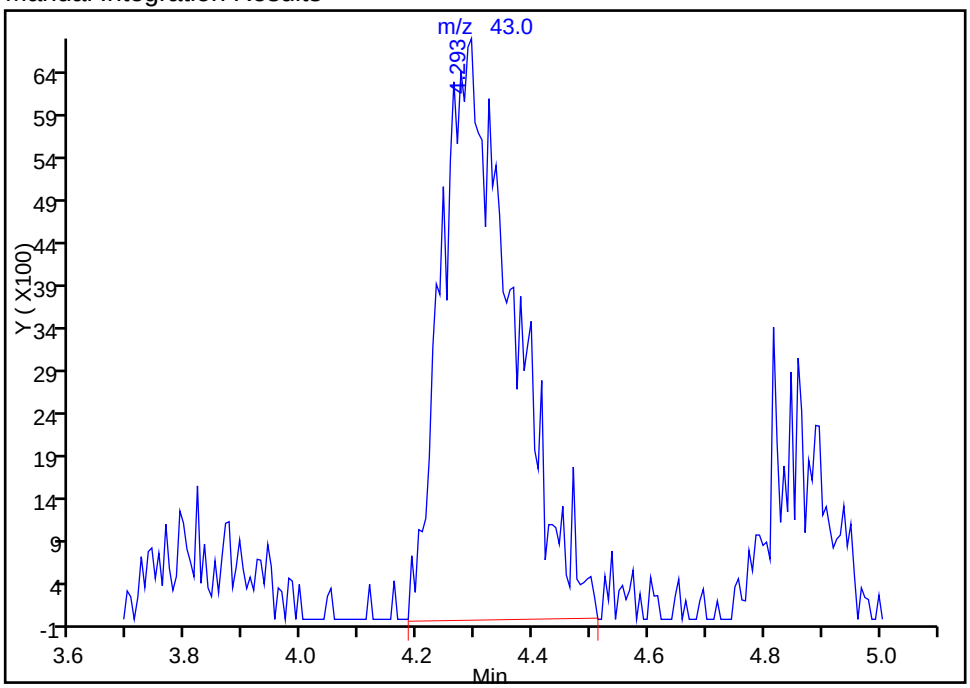
Processing Integration Results

RT: 4.29
Area: 41341
Amount: 218.9301
Amount Units: ng



Manual Integration Results

RT: 4.29
Area: 58339
Amount: 300.5204
Amount Units: ng



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Manual Integration/User Assign Peak Report

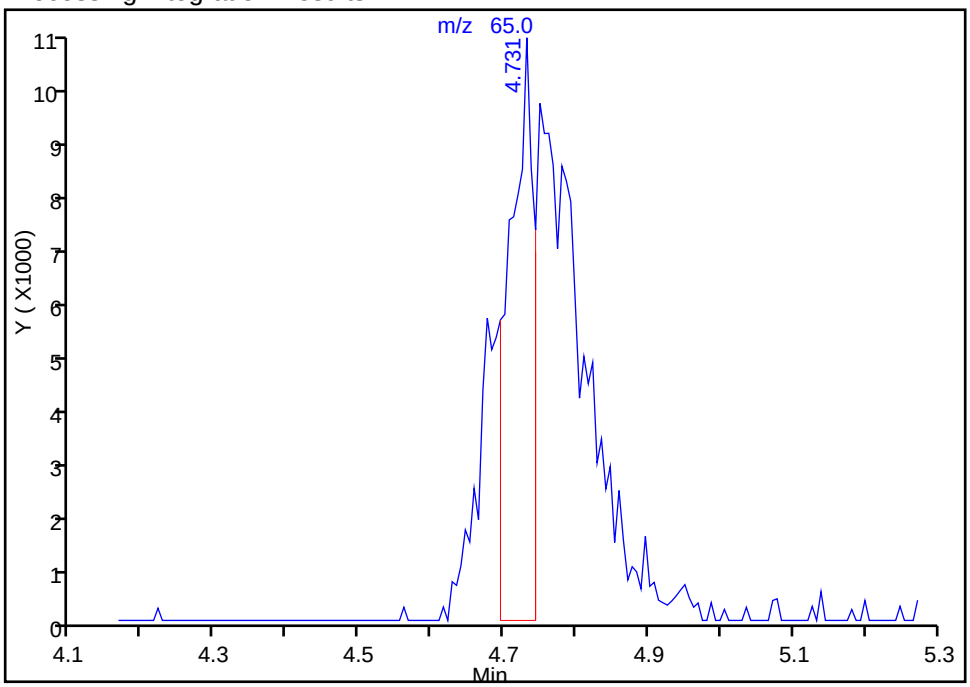
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

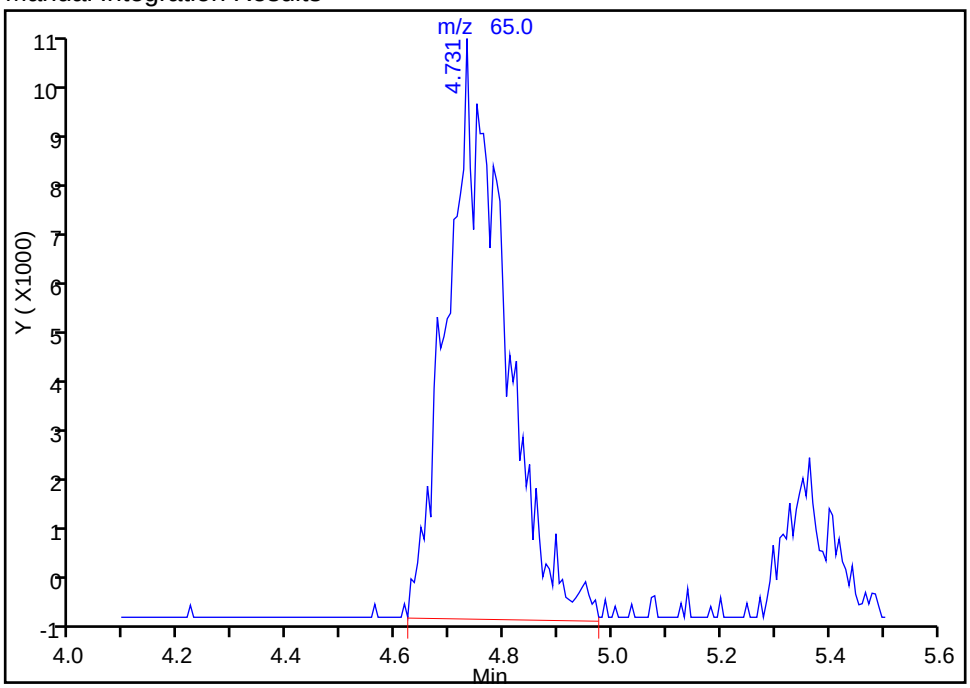
Processing Integration Results

RT: 4.73
Area: 25163
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.73
Area: 80397
Amount: 5000.0000
Amount Units: ng



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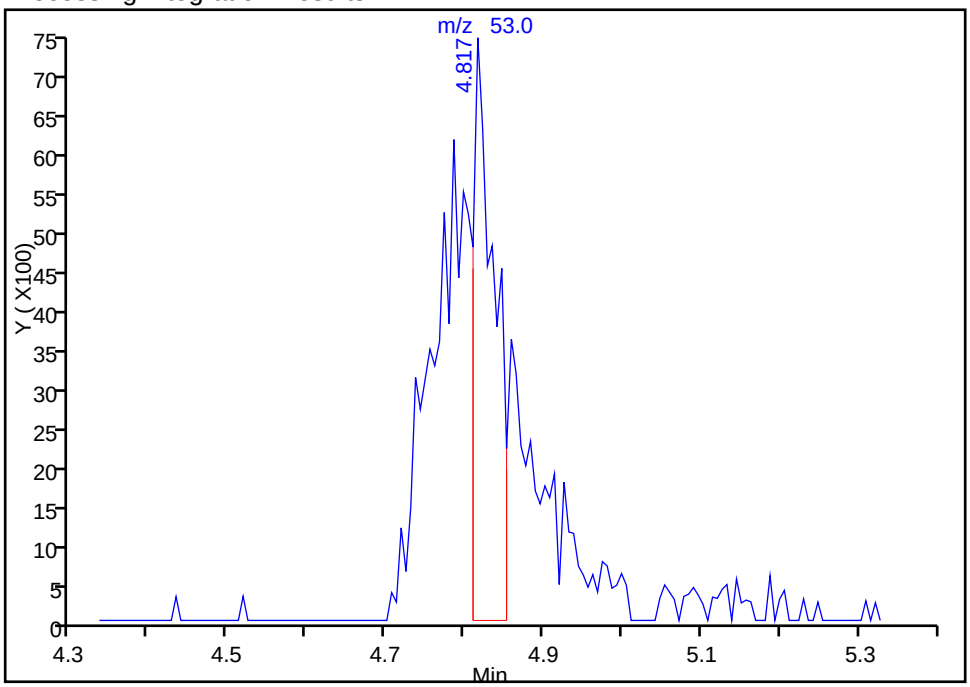
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

31 Acrylonitrile, CAS: 107-13-1

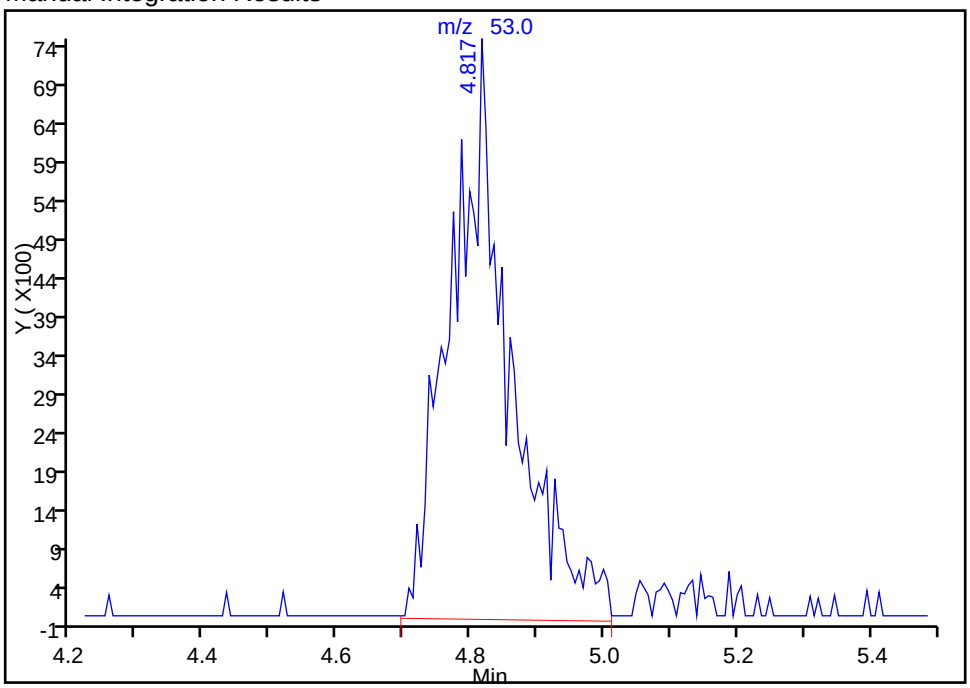
Processing Integration Results

RT: 4.82
Area: 13924
Amount: 207.1984
Amount Units: ng



Manual Integration Results

RT: 4.82
Area: 45925
Amount: 546.4259
Amount Units: ng



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Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

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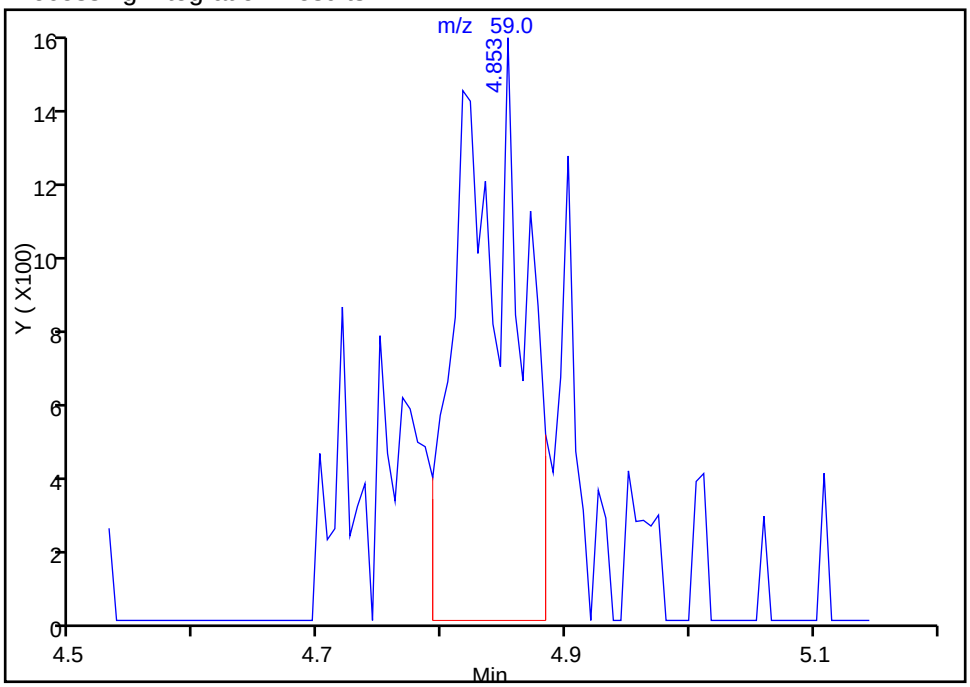
Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

32 2-Methyl-2-propanol, CAS: 75-65-0

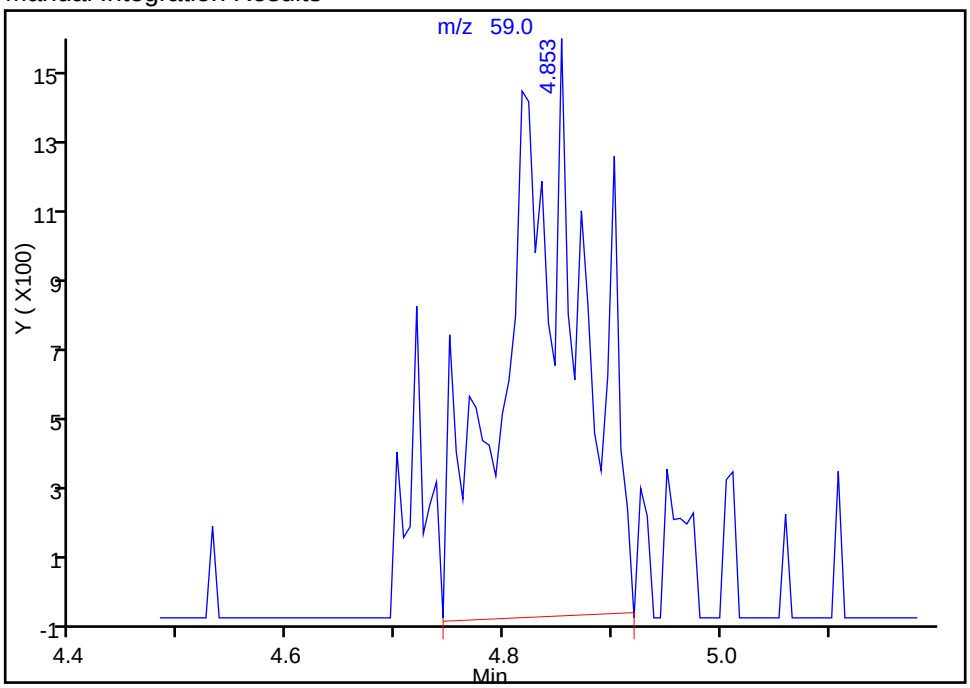
Processing Integration Results

RT: 4.85
Area: 5155
Amount: 177.9930
Amount Units: ng



Manual Integration Results

RT: 4.85
Area: 7535
Amount: 420.1011
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

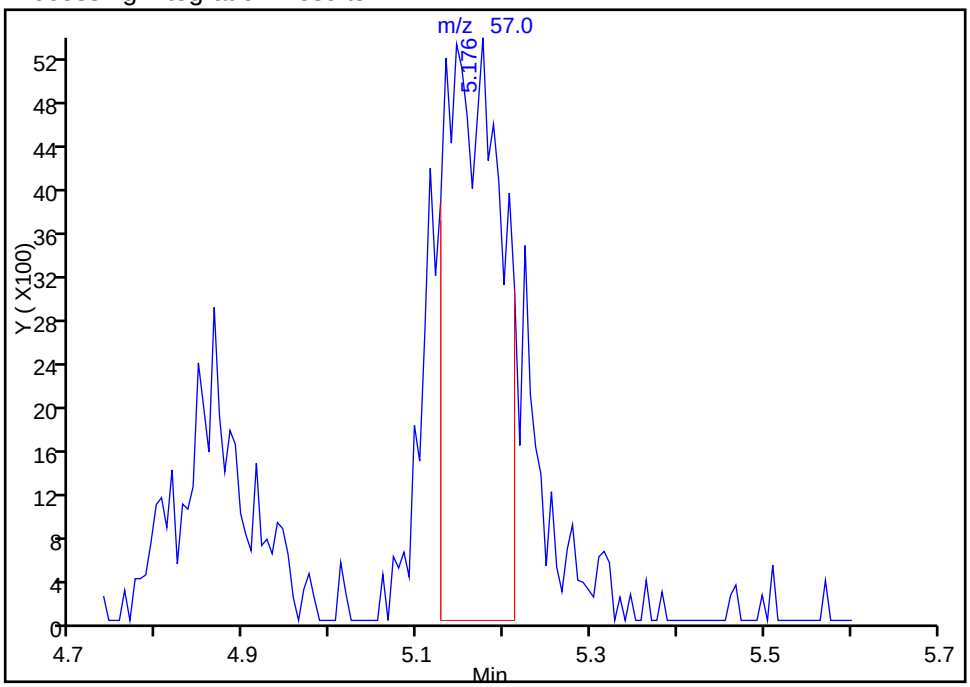
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

34 Hexane, CAS: 110-54-3

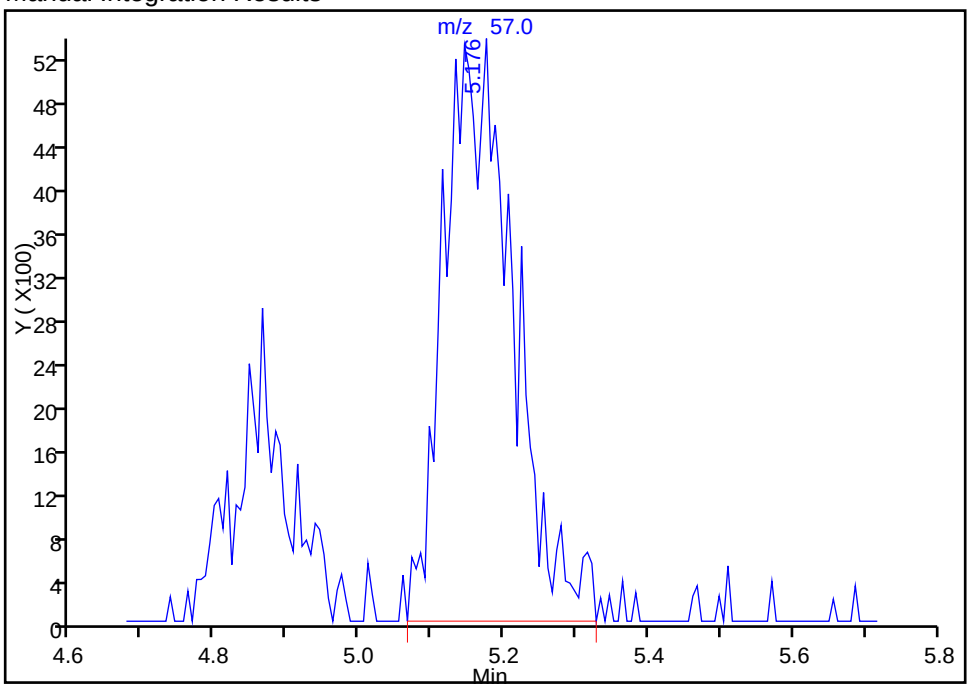
Processing Integration Results

RT: 5.18
Area: 23941
Amount: 38.913363
Amount Units: ng



Manual Integration Results

RT: 5.18
Area: 35794
Amount: 53.481013
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

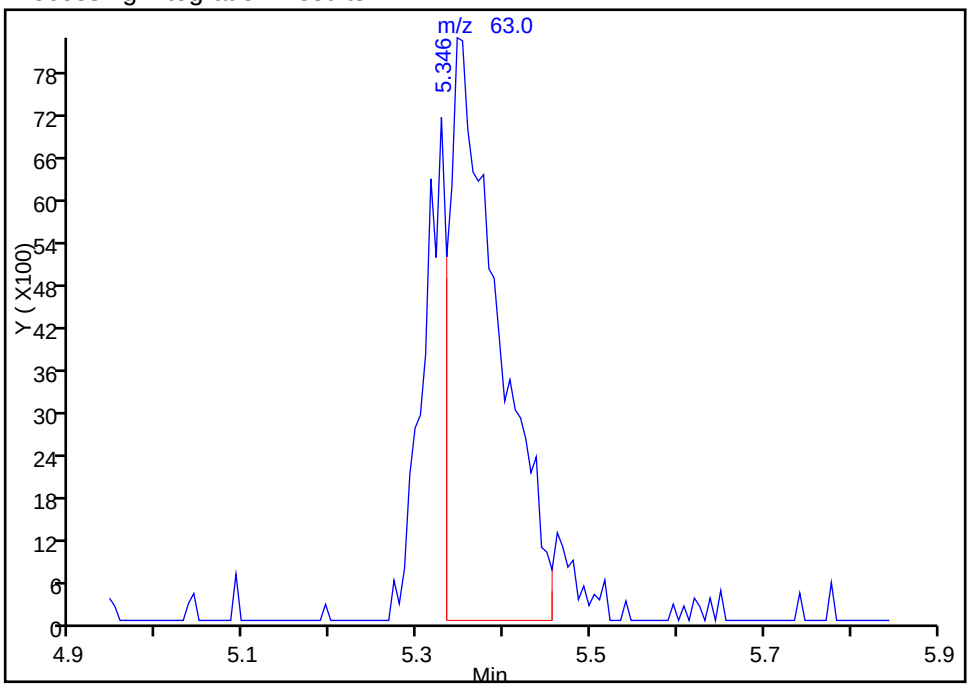
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

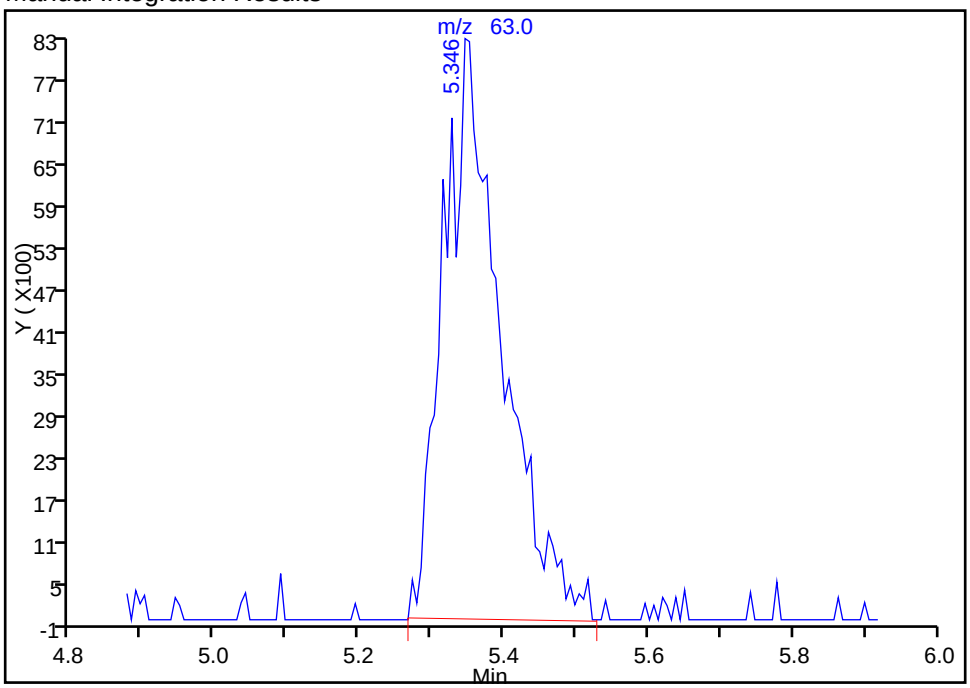
Processing Integration Results

RT: 5.35
Area: 32601
Amount: 39.425149
Amount Units: ng



Manual Integration Results

RT: 5.35
Area: 46278
Amount: 52.203883
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

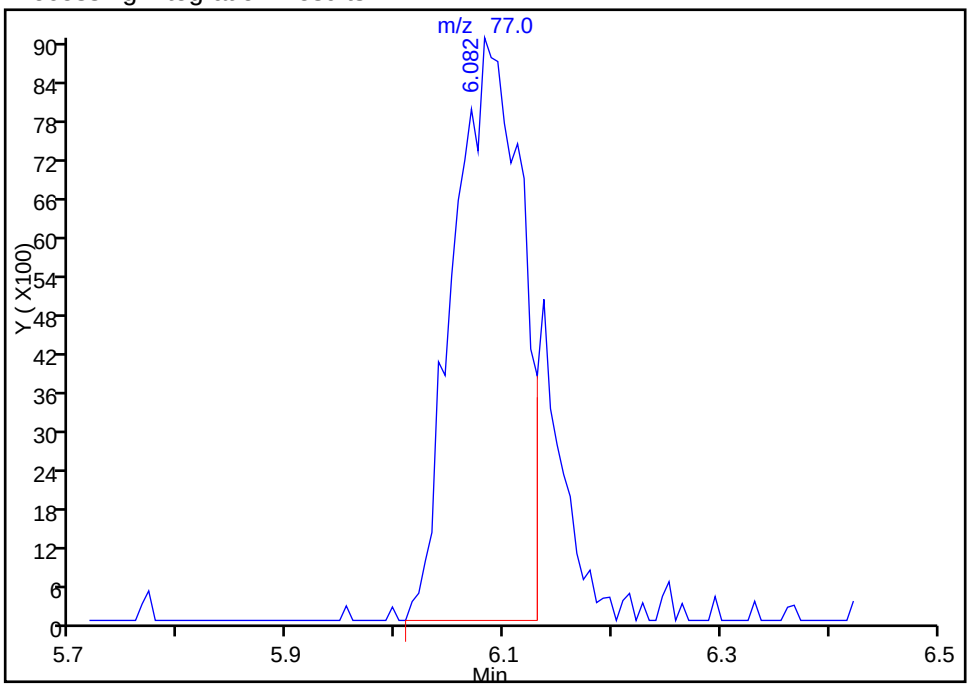
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

42 2,2-Dichloropropane, CAS: 594-20-7

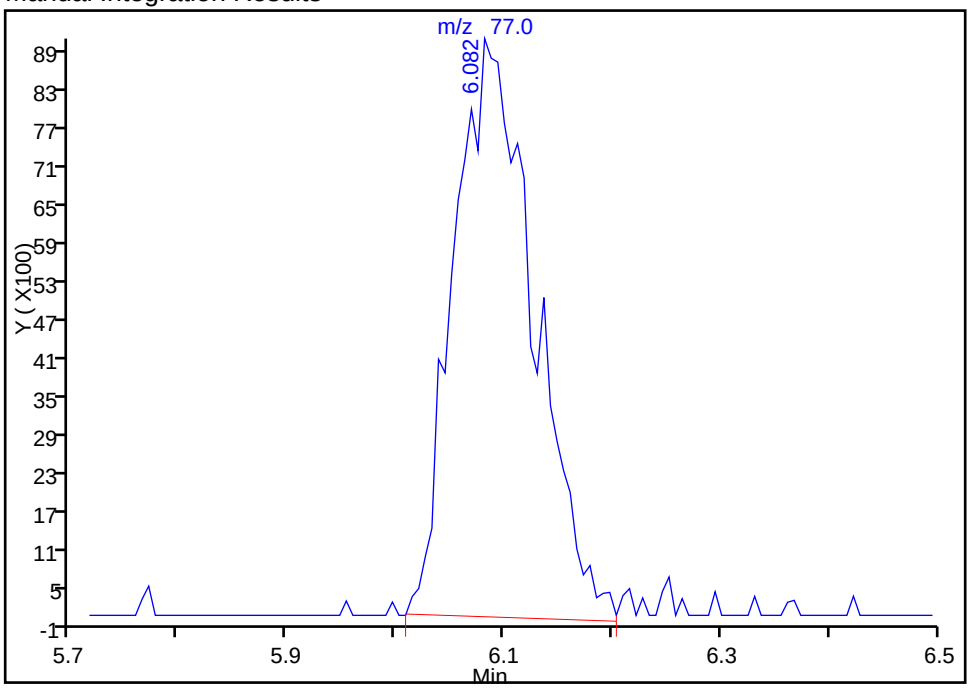
Processing Integration Results

RT: 6.08
Area: 39514
Amount: 59.912962
Amount Units: ng



Manual Integration Results

RT: 6.08
Area: 46721
Amount: 54.086126
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

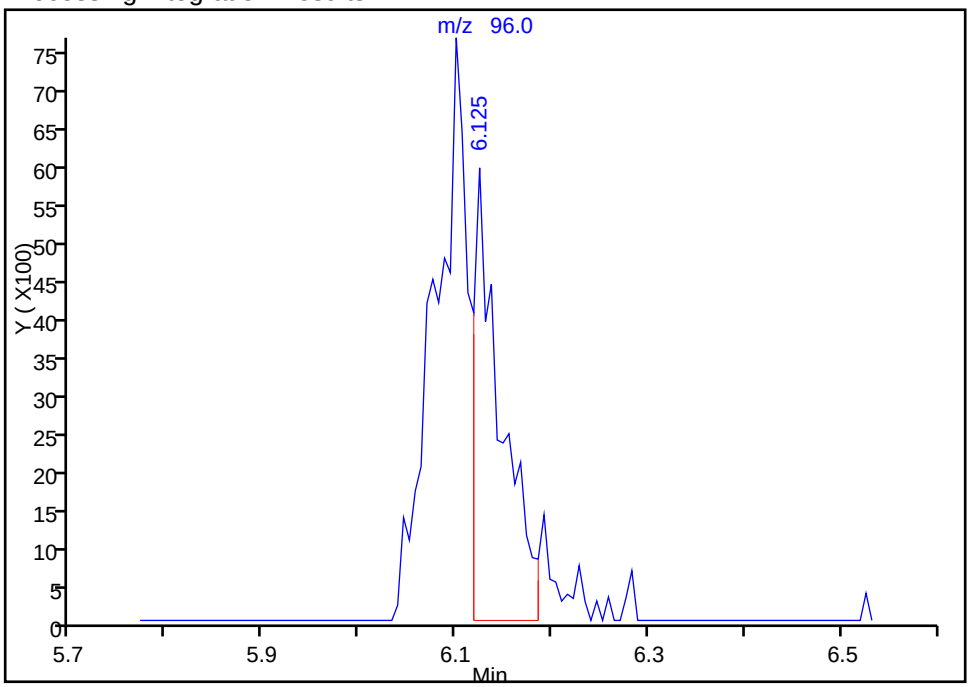
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

41 cis-1,2-Dichloroethene, CAS: 156-59-2

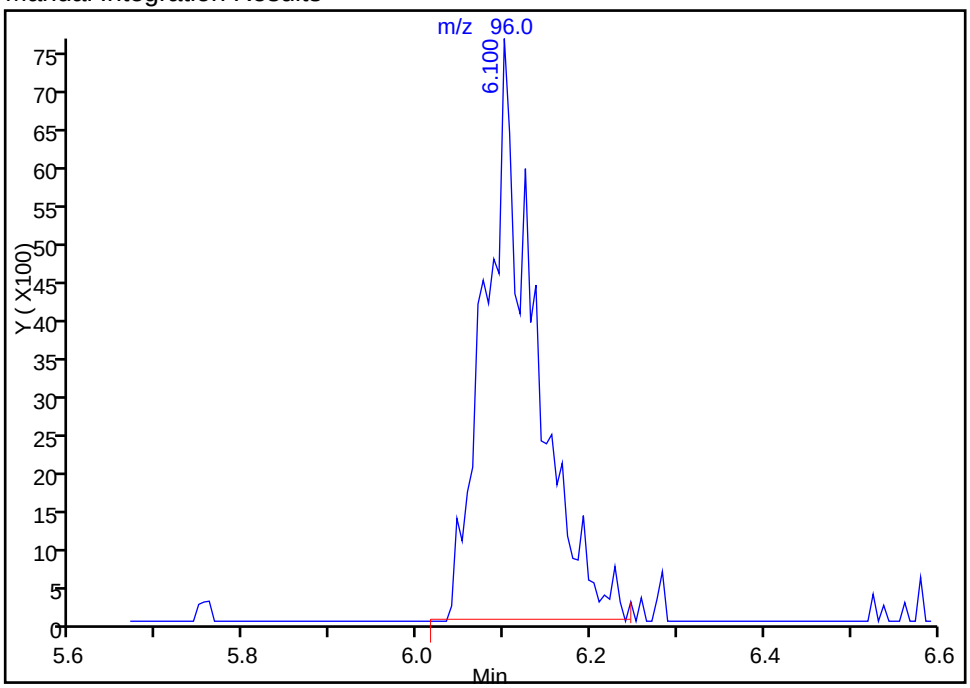
Processing Integration Results

RT: 6.12
Area: 11704
Amount: 23.315724
Amount Units: ng



Manual Integration Results

RT: 6.10
Area: 30074
Amount: 51.146596
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

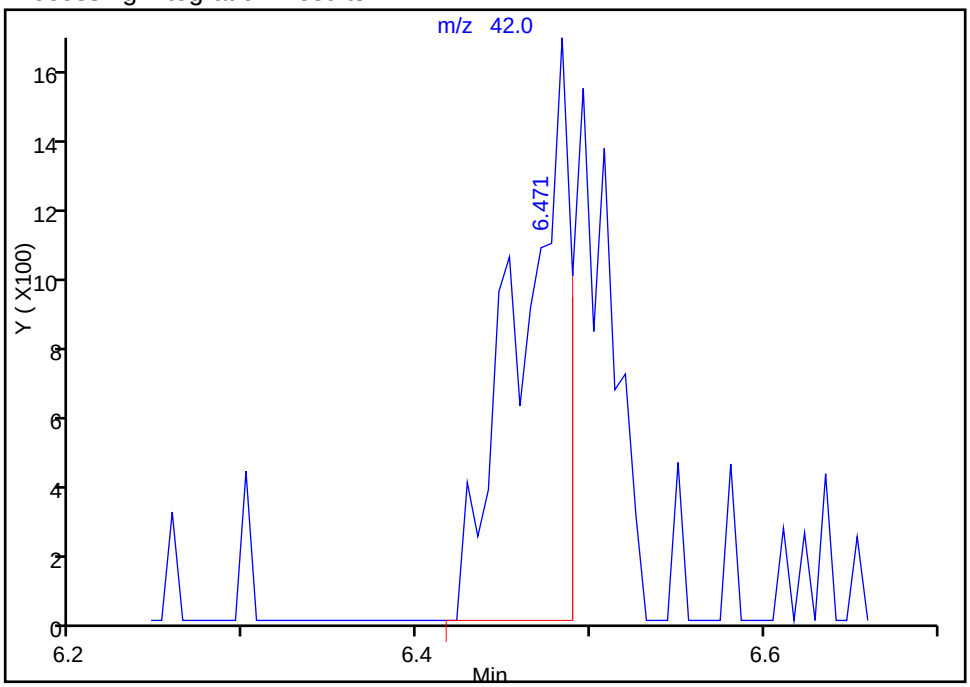
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

48 Tetrahydrofuran, CAS: 109-99-9

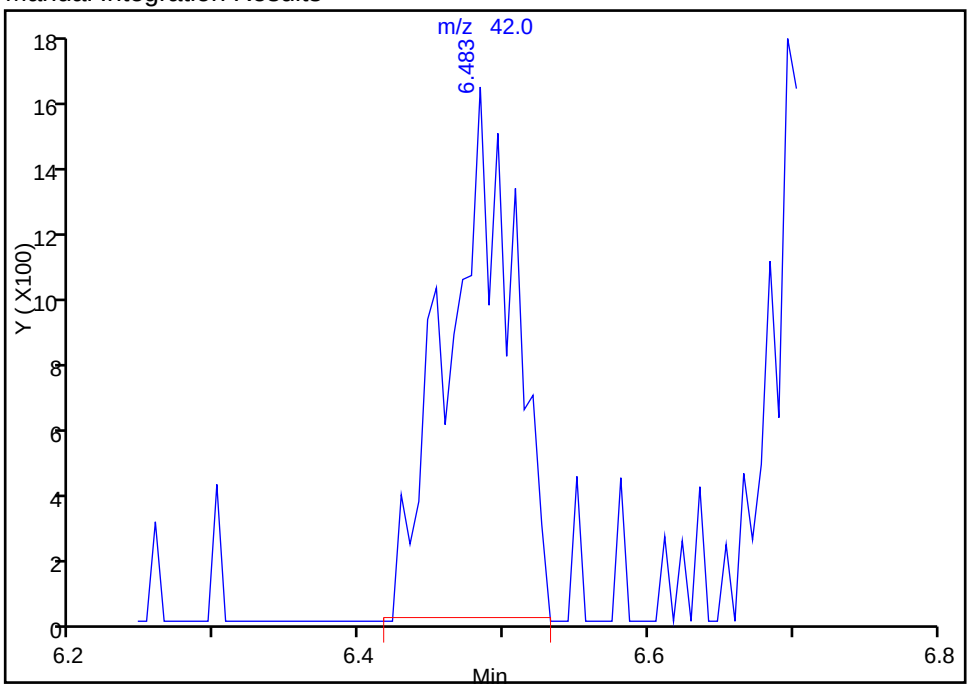
Processing Integration Results

RT: 6.47
Area: 3259
Amount: 63.112456
Amount Units: ng



Manual Integration Results

RT: 6.48
Area: 5060
Amount: 87.812333
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

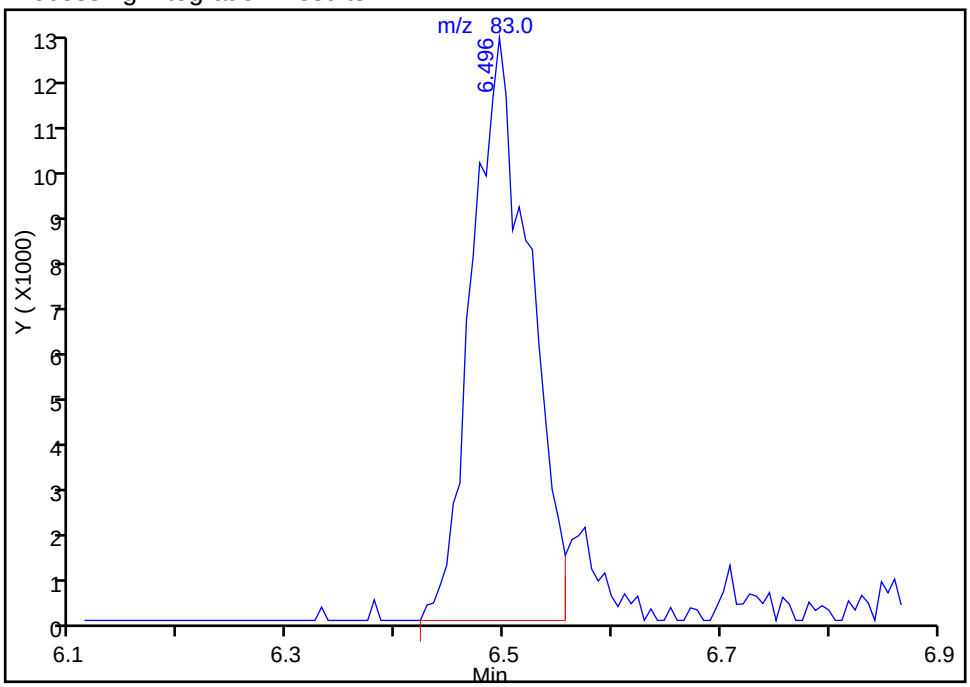
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

49 Chloroform, CAS: 67-66-3

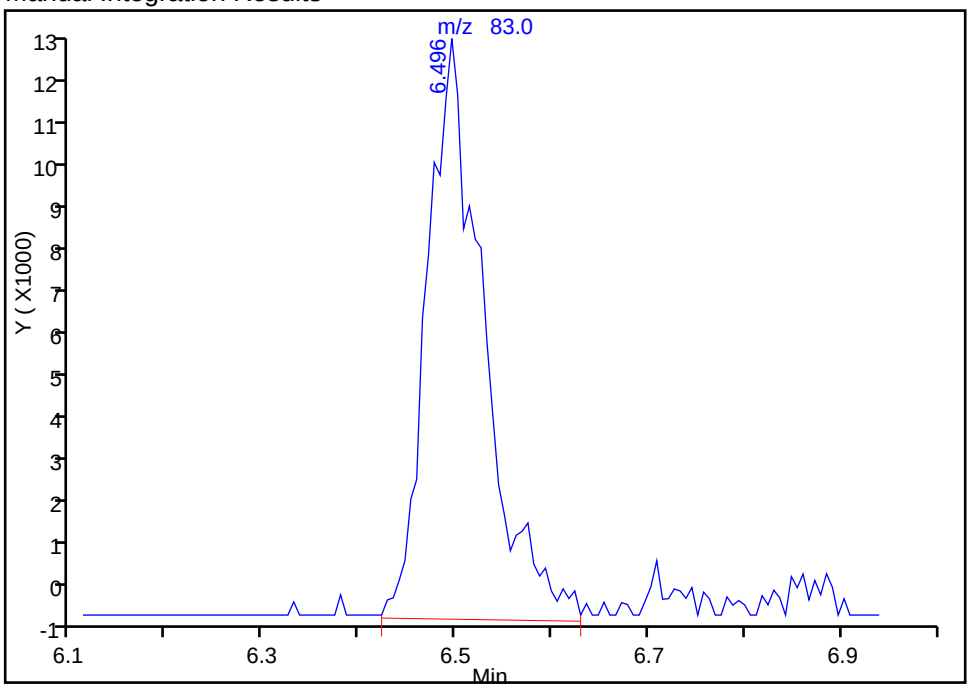
Processing Integration Results

RT: 6.50
Area: 46994
Amount: 51.660992
Amount Units: ng



Manual Integration Results

RT: 6.50
Area: 52286
Amount: 56.956586
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

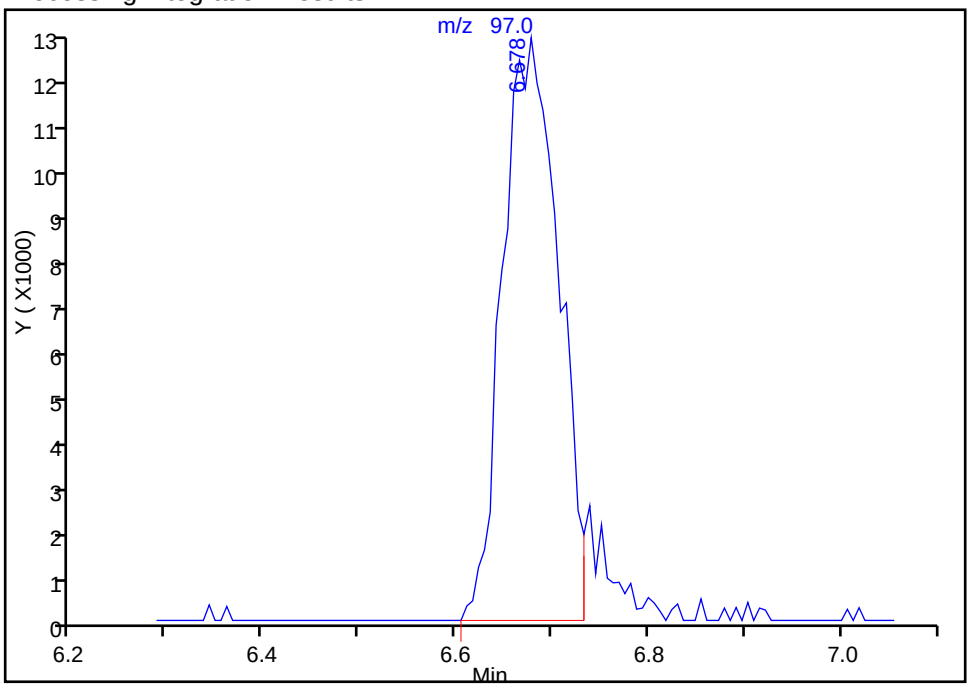
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

50 1,1,1-Trichloroethane, CAS: 71-55-6

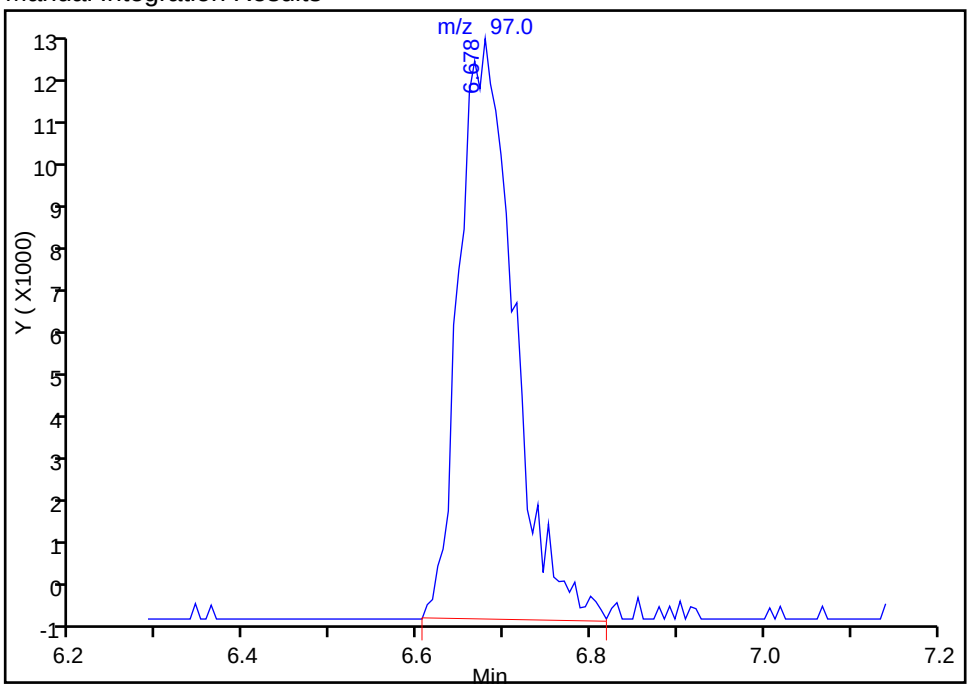
Processing Integration Results

RT: 6.68
Area: 51337
Amount: 52.488351
Amount Units: ng



Manual Integration Results

RT: 6.68
Area: 55539
Amount: 58.634832
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

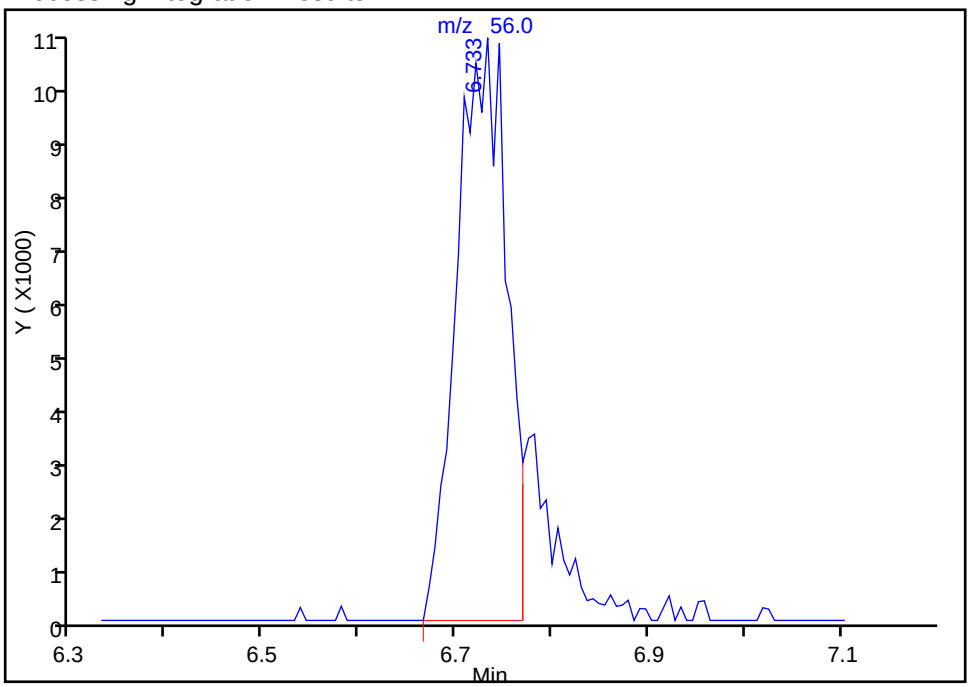
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

52 Cyclohexane, CAS: 110-82-7

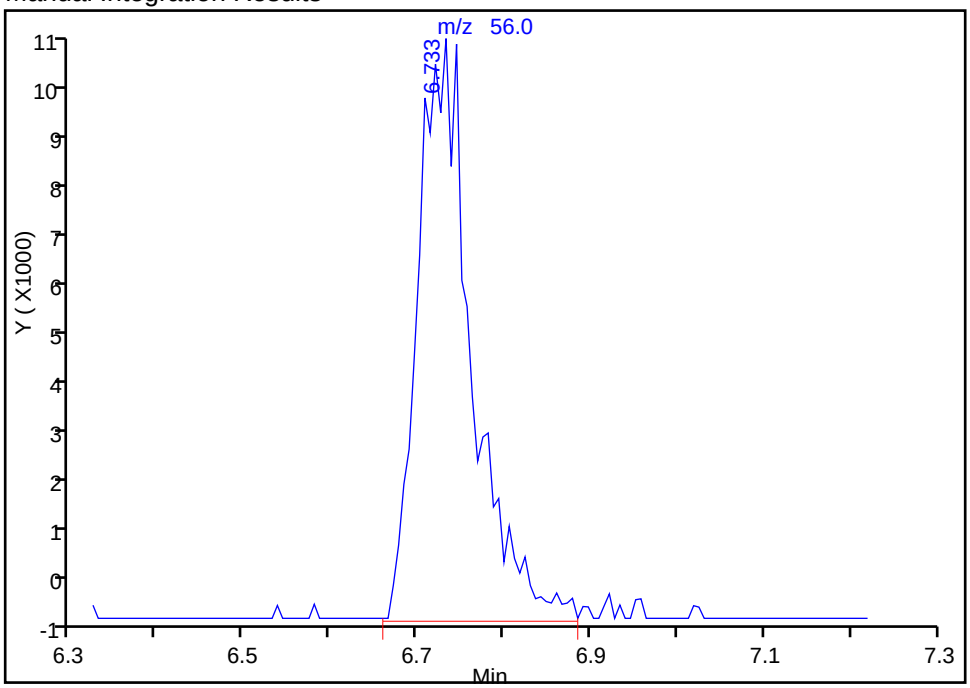
Processing Integration Results

RT: 6.73
Area: 37536
Amount: 47.802761
Amount Units: ng



Manual Integration Results

RT: 6.73
Area: 45416
Amount: 57.649326
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

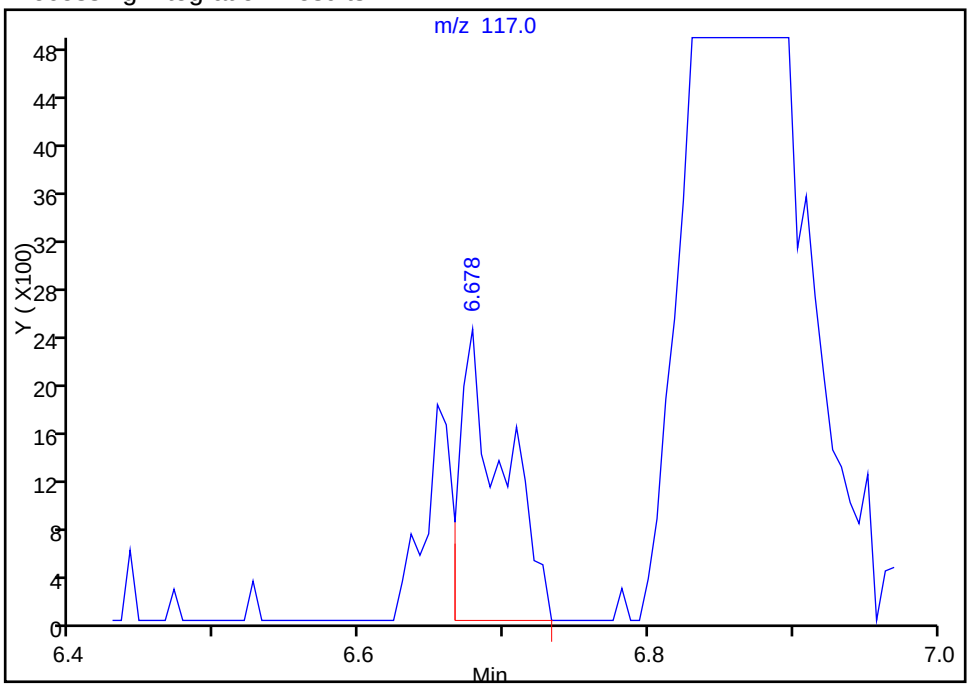
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

53 Carbon tetrachloride, CAS: 56-23-5

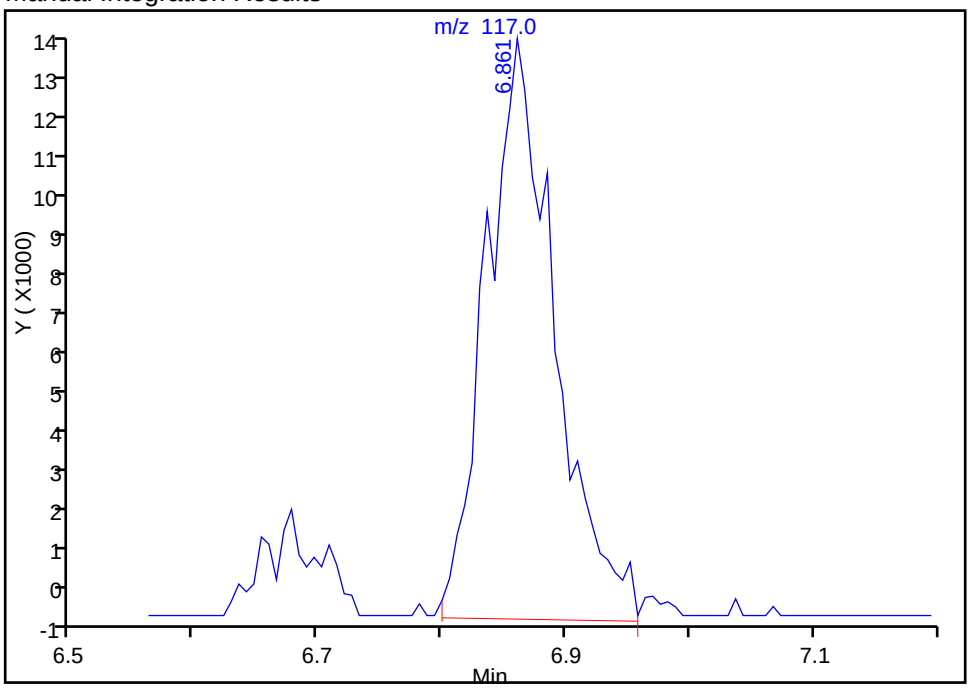
Processing Integration Results

RT: 6.68
Area: 5086
Amount: 7.001998
Amount Units: ng



Manual Integration Results

RT: 6.86
Area: 51451
Amount: 55.934842
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:09:55
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

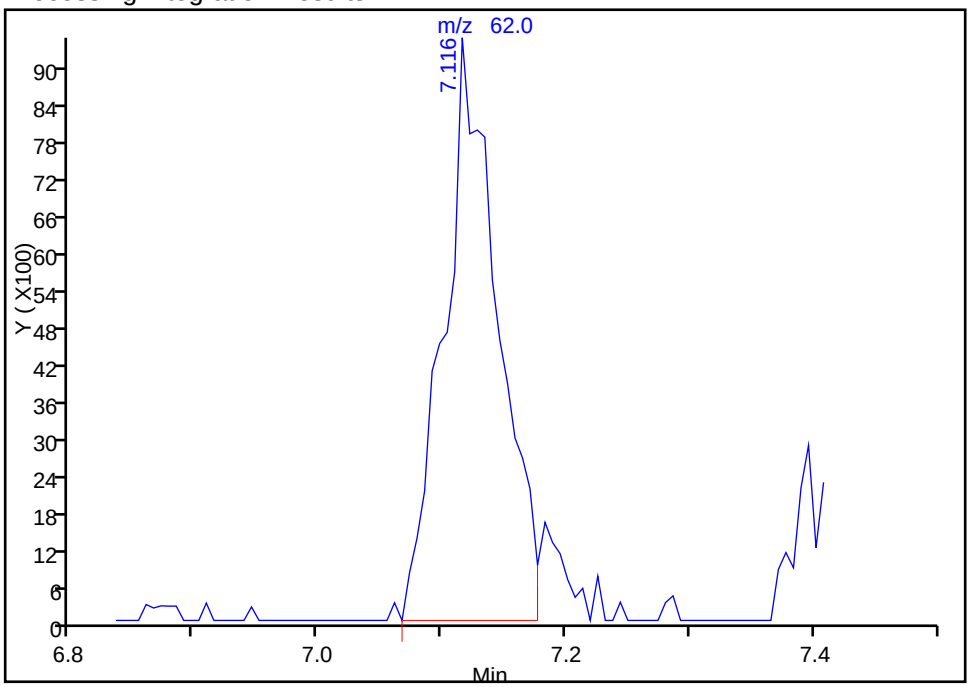
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D				
Injection Date:	13-Jan-2015 10:53:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

56 1,2-Dichloroethane, CAS: 107-06-2

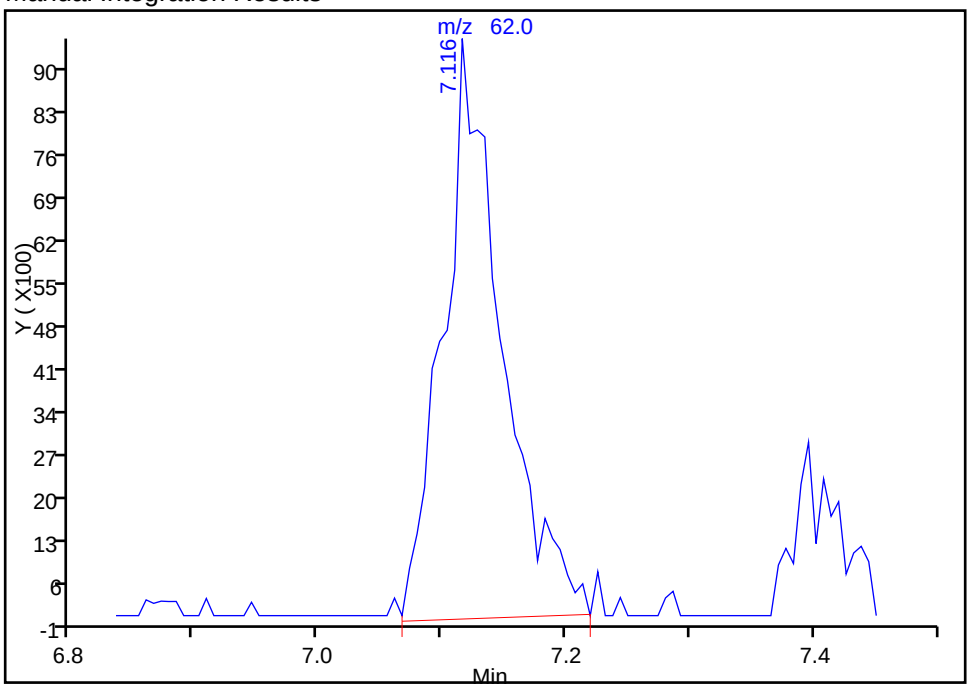
Processing Integration Results

RT: 7.12
Area: 28846
Amount: 53.819536
Amount Units: ng



Manual Integration Results

RT: 7.12
Area: 31199
Amount: 58.330294
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:11:10
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

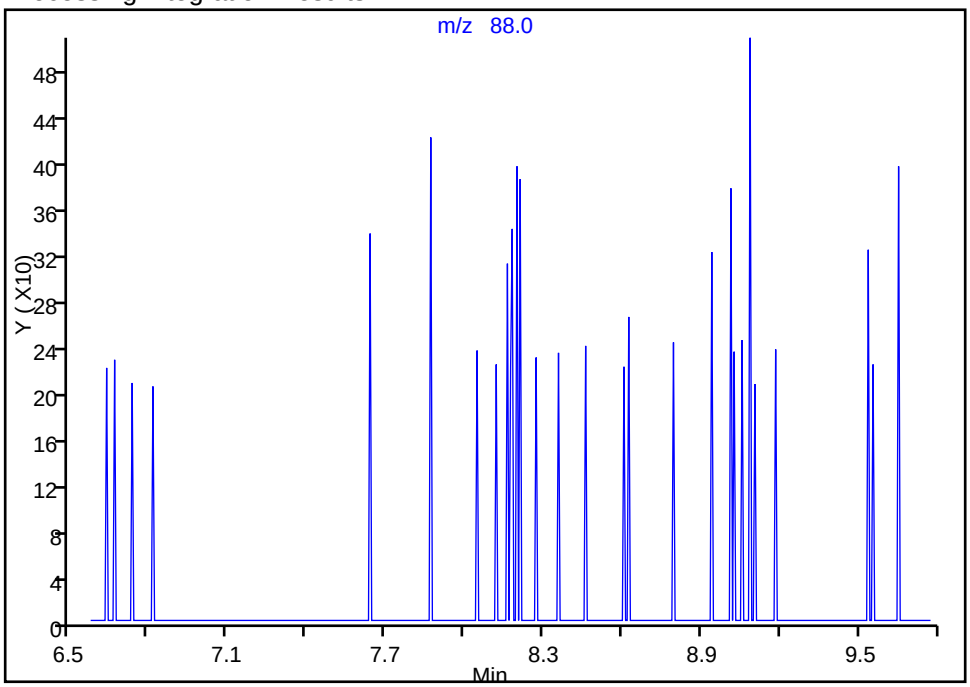
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

67 1,4-Dioxane, CAS: 123-91-1

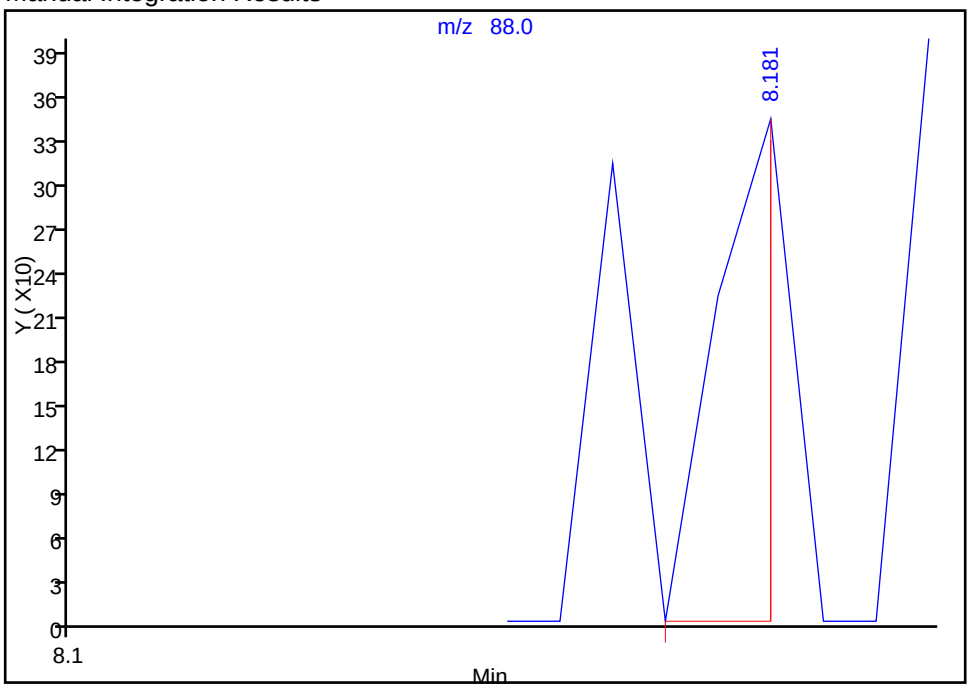
Not Detected
Expected RT: 8.18

Processing Integration Results



Manual Integration Results

RT: 8.18
Area: 203
Amount: 1209.8049
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:35:46
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

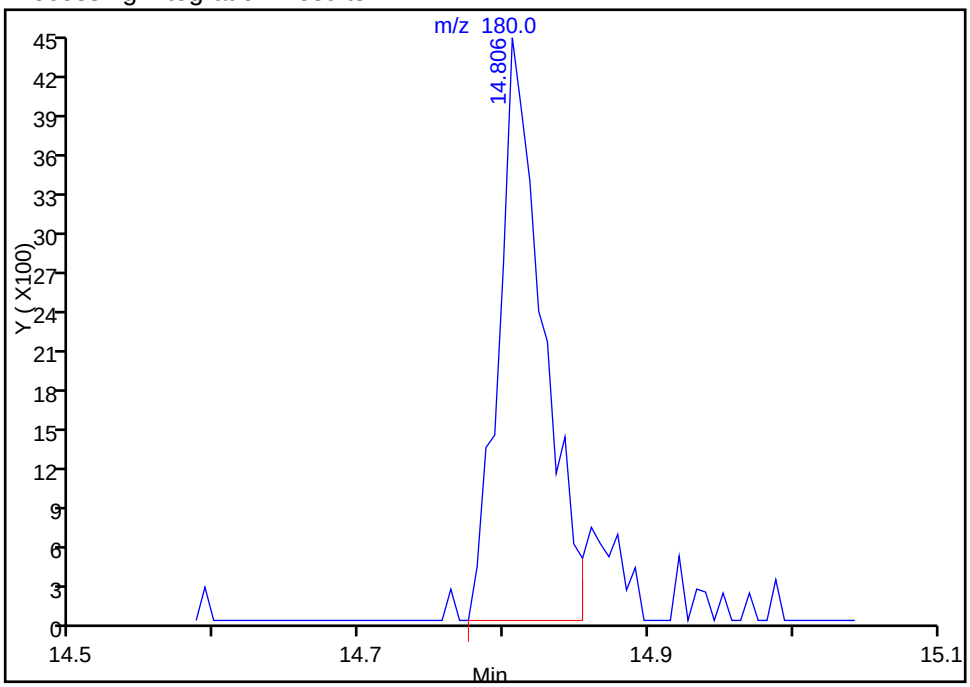
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

114 1,2,4-Trichlorobenzene, CAS: 120-82-1

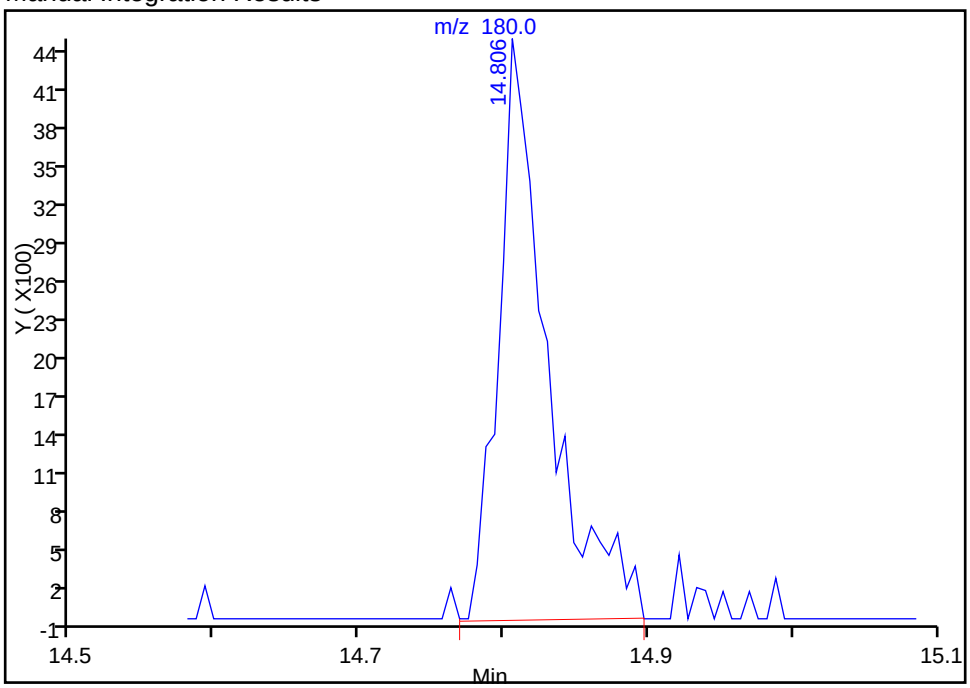
Processing Integration Results

RT: 14.81
Area: 9472
Amount: 45.788861
Amount Units: ng



Manual Integration Results

RT: 14.81
Area: 10664
Amount: 48.633183
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:38:30
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

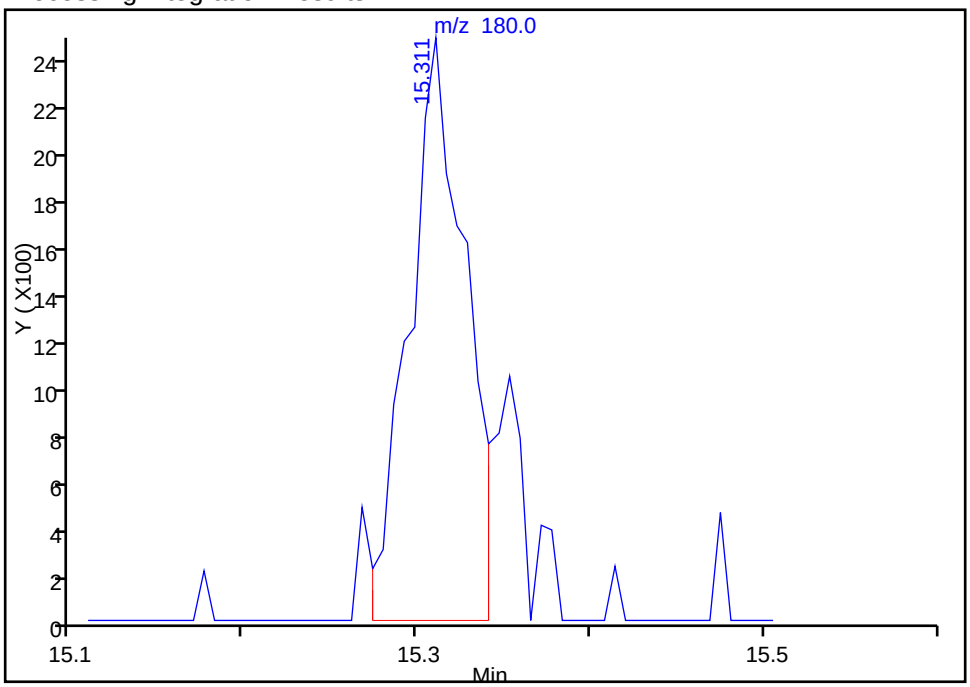
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011304.D
Injection Date: 13-Jan-2015 10:53:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

117 1,2,3-Trichlorobenzene, CAS: 87-61-6

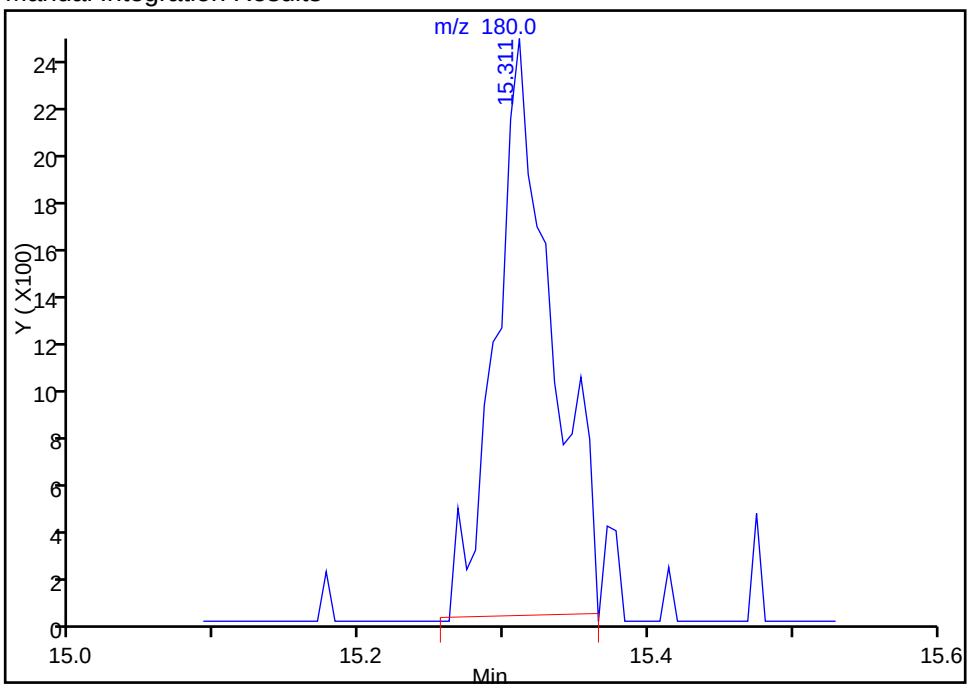
Processing Integration Results

RT: 15.31
Area: 5639
Amount: 39.244433
Amount Units: ng



Manual Integration Results

RT: 15.31
Area: 6597
Amount: 69.157414
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:46:06
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Jan-2015 11:33:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0005249-005
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub1

Method: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Feb-2015 14:21:05 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: journetp Date: 13-Jan-2015 13:12:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.749	4.607	0.142	89	105148	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.396	7.417	-0.021	97	535610	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.462	10.465	-0.003	86	129937	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.786	12.789	-0.003	96	164257	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.666	6.675	-0.009	66	79324	125.0	122.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.037	7.211	-0.174	92	75134	125.0	119.6	
$ 7 Toluene-d8 (Surr)	98	9.032	9.035	-0.003	93	263274	125.0	137.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.636	11.639	-0.003	85	96165	125.0	129.1	
10 Dichlorodifluoromethane	85	1.896	1.905	-0.009	26	78232	125.0	109.0	M
11 Chloromethane	50	2.024	2.027	-0.003	44	82718	125.0	102.7	M
12 Vinyl chloride	62	2.133	2.136	-0.003	86	66718	125.0	102.5	
13 Butadiene	39	2.176	2.173	0.003	89	70885	125.0	97.8	M
14 Bromomethane	94	2.511	2.508	0.003	78	49614	125.0	92.6	
15 Chloroethane	64	2.614	2.623	-0.009	12	52322	125.0	108.1	
16 Trichlorofluoromethane	101	2.863	2.891	-0.028	72	153843	125.0	110.1	
17 Dichlorofluoromethane	67	2.900	2.903	-0.003	80	150560	125.0	107.4	
18 Ethyl ether	59	3.301	3.353	-0.052	84	48641	125.0	116.7	
19 Acrolein	56	3.472	3.505	-0.033	23	31489	750.0	591.0	
20 1,1-Dichloroethene	96	3.527	3.548	-0.021	82	79379	125.0	109.7	
21 1,1,2-Trichloro-1,2,2-trif	101	3.685	3.657	0.028	84	94314	125.0	109.8	
22 Acetone	43	3.855	3.773	0.082	6	16727	125.0	104.4	M
23 Iodomethane	142	3.746	3.773	-0.027	94	152808	125.0	111.1	
24 Carbon disulfide	76	3.806	3.828	-0.022	100	259885	125.0	113.2	
26 3-Chloro-1-propene	76	4.098	4.162	-0.064	1	62529	125.0	127.8	M
28 Methyl acetate	43	4.305	4.278	0.027	96	107057	625.0	418.1	
29 Methylene Chloride	84	4.348	4.375	-0.027	83	79224	125.0	109.7	
30 trans-1,2-Dichloroethene	96	4.737	4.746	-0.009	89	93571	125.0	121.1	
31 Acrylonitrile	53	4.792	4.777	0.015	99	121280	1250.0	1094.0	
32 2-Methyl-2-propanol	59	4.853	4.831	0.022	27	23437	1250.0	999.1	M
33 Methyl tert-butyl ether	73	4.835	4.850	-0.016	97	184318	125.0	117.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Hexane	57	5.145	5.160	-0.015	96	101747	125.0	115.3	
35 Vinyl acetate	43	5.467	5.166	0.301	84	35633	125.0	78.6	
36 1,1-Dichloroethane	63	5.333	5.349	-0.016	95	135177	125.0	115.6	
41 cis-1,2-Dichloroethene	96	6.082	6.091	-0.009	1	96918	125.0	125.0	M
42 2,2-Dichloropropane	77	6.082	6.097	-0.015	82	134676	125.0	118.2	
43 2-Butanone (MEK)	43	6.191	6.170	0.021	95	16288	125.0	102.8	
46 Chlorobromomethane	128	6.374	6.395	-0.021	90	45616	125.0	124.5	
48 Tetrahydrofuran	42	6.471	6.450	0.021	37	18093	250.0	238.1	
49 Chloroform	83	6.489	6.498	-0.009	92	143351	125.0	118.4	
50 1,1,1-Trichloroethane	97	6.672	6.681	-0.009	96	152679	125.0	122.2	
51 Isobutyl alcohol	41	6.720	6.723	-0.003	16	83691	3125.0	2958.5	
52 Cyclohexane	56	6.720	6.729	-0.009	90	121371	125.0	116.8	
53 Carbon tetrachloride	117	6.854	6.857	-0.003	95	146153	125.0	120.5	
54 1,1-Dichloropropene	75	6.854	6.863	-0.009	82	98708	125.0	125.9	
55 Benzene	78	7.091	7.088	0.003	96	292095	125.0	124.3	
56 1,2-Dichloroethane	62	7.116	7.131	-0.015	96	88707	125.0	125.7	
59 n-Heptane	43	7.396	7.405	-0.009	51	96797	125.0	123.8	
60 Trichloroethene	130	7.791	7.788	0.003	96	96888	125.0	123.2	
63 Methylcyclohexane	83	7.986	7.983	0.003	90	143901	125.0	118.1	
64 1,2-Dichloropropane	63	8.022	8.025	-0.003	88	57850	125.0	123.6	
65 Dibromomethane	93	8.150	8.153	-0.003	95	37760	125.0	112.0	
67 1,4-Dioxane	88	8.199	8.177	0.022	13	2766	2500.0	2139.8	
68 Dichlorobromomethane	83	8.314	8.311	0.003	97	103269	125.0	124.5	
71 cis-1,3-Dichloropropene	75	8.764	8.767	-0.003	91	99548	125.0	120.6	
72 4-Methyl-2-pentanone (MIBK	43	8.935	8.932	0.003	97	36891	125.0	123.0	
73 Toluene	91	9.099	9.102	-0.003	98	292549	125.0	135.0	
74 trans-1,3-Dichloropropene	75	9.324	9.327	-0.003	96	80008	125.0	131.5	
75 Ethyl methacrylate	69	9.421	9.418	0.003	87	52516	125.0	123.8	
76 1,1,2-Trichloroethane	97	9.501	9.510	-0.009	94	46199	125.0	128.3	
77 Tetrachloroethene	164	9.647	9.650	-0.003	89	62728	125.0	121.4	
78 1,3-Dichloropropane	76	9.671	9.668	0.003	92	73508	125.0	130.8	
79 2-Hexanone	43	9.762	9.765	-0.003	96	23099	125.0	120.5	
81 Chlorodibromomethane	129	9.902	9.893	0.009	90	71936	125.0	121.2	
82 Ethylene Dibromide	107	10.005	10.015	-0.010	97	46977	125.0	122.4	
83 Chlorobenzene	112	10.492	10.495	-0.003	94	199202	125.0	128.3	
84 1,1,1,2-Tetrachloroethane	131	10.577	10.574	0.003	91	78799	125.0	122.0	
85 Ethylbenzene	106	10.602	10.605	-0.003	98	113910	125.0	134.9	
86 m-Xylene & p-Xylene	106	10.717	10.720	-0.003	98	140773	125.0	129.6	
88 o-Xylene	106	11.113	11.116	-0.003	96	148022	125.0	135.1	
89 Styrene	104	11.125	11.128	-0.003	93	224206	125.0	136.4	
90 Bromoform	173	11.313	11.310	0.003	93	36228	125.0	119.4	
91 Isopropylbenzene	105	11.478	11.481	-0.003	96	400185	125.0	128.2	
93 1,1,2,2-Tetrachloroethane	83	11.776	11.773	0.003	95	43366	125.0	119.8	
94 Bromobenzene	156	11.782	11.785	-0.003	92	83435	125.0	128.3	
95 1,2,3-Trichloropropane	110	11.824	11.821	0.003	83	14752	125.0	116.7	
96 trans-1,4-Dichloro-2-buten	53	11.837	11.827	0.010	60	8924	125.0	104.2	
97 N-Propylbenzene	120	11.885	11.888	-0.003	98	114344	125.0	132.4	
98 2-Chlorotoluene	126	11.983	11.980	0.003	97	99138	125.0	132.6	
99 1,3,5-Trimethylbenzene	105	12.062	12.059	0.003	96	313204	125.0	129.8	
100 4-Chlorotoluene	126	12.086	12.083	0.003	97	96917	125.0	134.0	
101 tert-Butylbenzene	119	12.390	12.387	0.003	92	298481	125.0	129.8	
103 1,2,4-Trimethylbenzene	105	12.433	12.436	-0.003	98	312666	125.0	132.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
104 sec-Butylbenzene	105	12.609	12.606	0.003	95	399932	125.0	130.1	
105 1,3-Dichlorobenzene	146	12.725	12.722	0.003	95	159503	125.0	130.8	
106 4-Isopropyltoluene	119	12.755	12.752	0.003	97	339411	125.0	131.8	
107 1,4-Dichlorobenzene	146	12.816	12.807	0.009	94	142829	125.0	123.4	
110 n-Butylbenzene	91	13.163	13.160	0.003	98	279882	125.0	131.8	
111 1,2-Dichlorobenzene	146	13.187	13.190	-0.003	94	118218	125.0	124.0	
112 1,2-Dibromo-3-Chloropropan	157	13.972	13.975	-0.003	80	5153	125.0	111.5	
114 1,2,4-Trichlorobenzene	180	14.805	14.802	0.003	91	29606	125.0	109.2	M
115 Hexachlorobutadiene	225	14.976	14.973	0.003	87	16453	125.0	104.0	
116 Naphthalene	128	15.061	15.058	0.003	96	50349	125.0	103.6	
117 1,2,3-Trichlorobenzene	180	15.304	15.307	-0.003	94	20350	125.0	111.5	
S 130 1,2-Dichloroethene, Total	96				0		250.0	246.1	
S 129 Xylenes, Total	106				0		250.0	264.7	
S 131 1,3-Dichloropropene, Total	1				0		250.0	252.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

voaWAcropri R_00006	Amount Added:	30.00	Units: uL
voaWVApri Res_00001	Amount Added:	5.00	Units: uL
VOA8260VOAPRI_00095	Amount Added:	5.00	Units: uL
VOA8260SURR_00017	Amount Added:	5.00	Units: uL
VOA8260INT_00027	Amount Added:	10.00	Units: uL

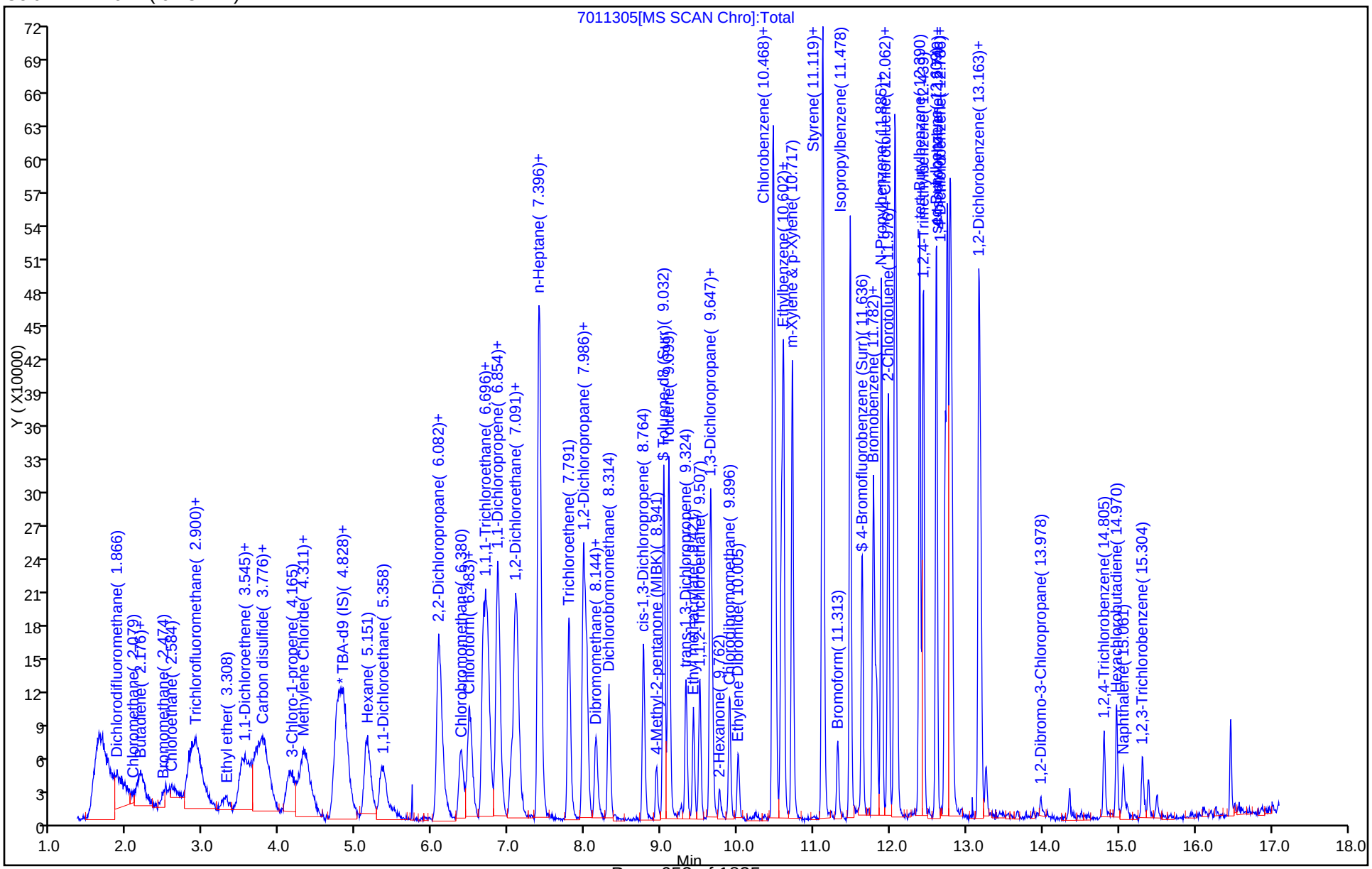
Report Date: 17-Feb-2015 14:21:06 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D

Injection Date:	13-Jan-2015 11:33:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

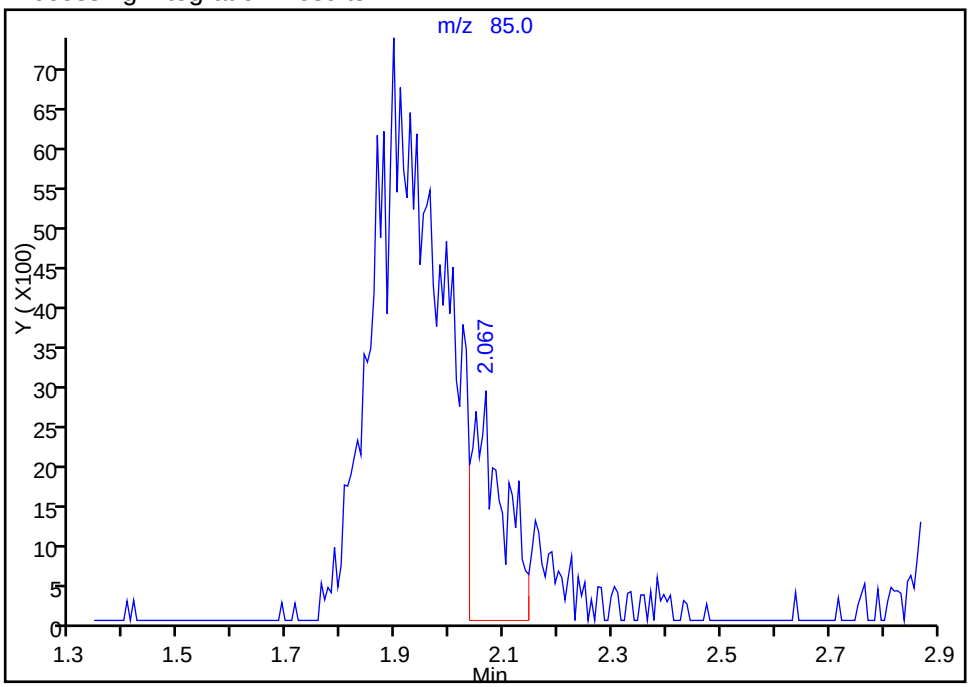
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D
Injection Date: 13-Jan-2015 11:33:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

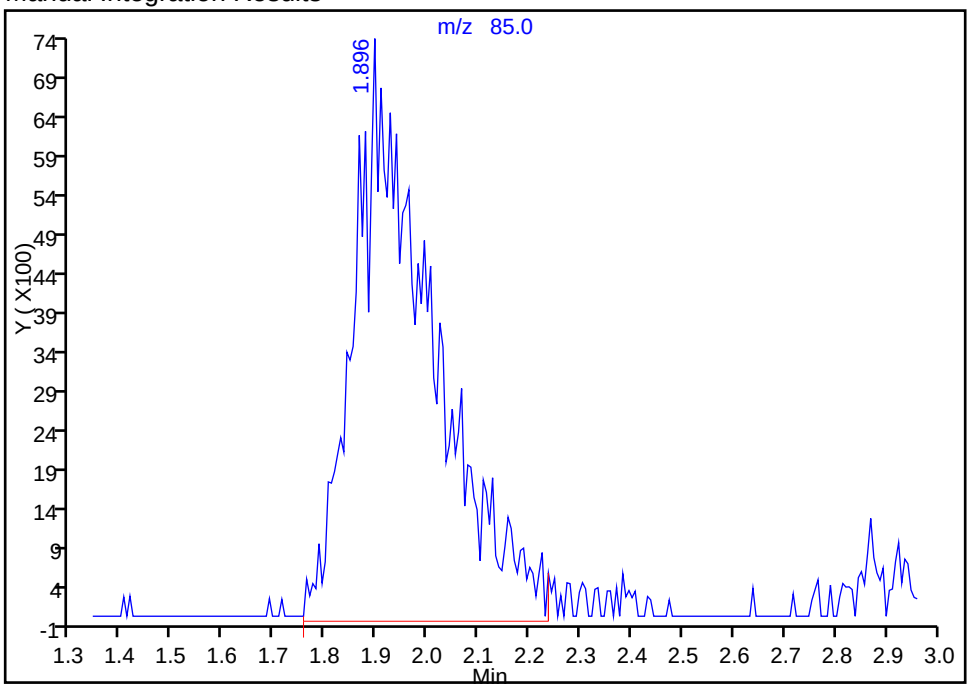
Processing Integration Results

RT: 2.07
Area: 11404
Amount: 19.343945
Amount Units: ng



Manual Integration Results

RT: 1.90
Area: 78232
Amount: 108.9650
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:28:43
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

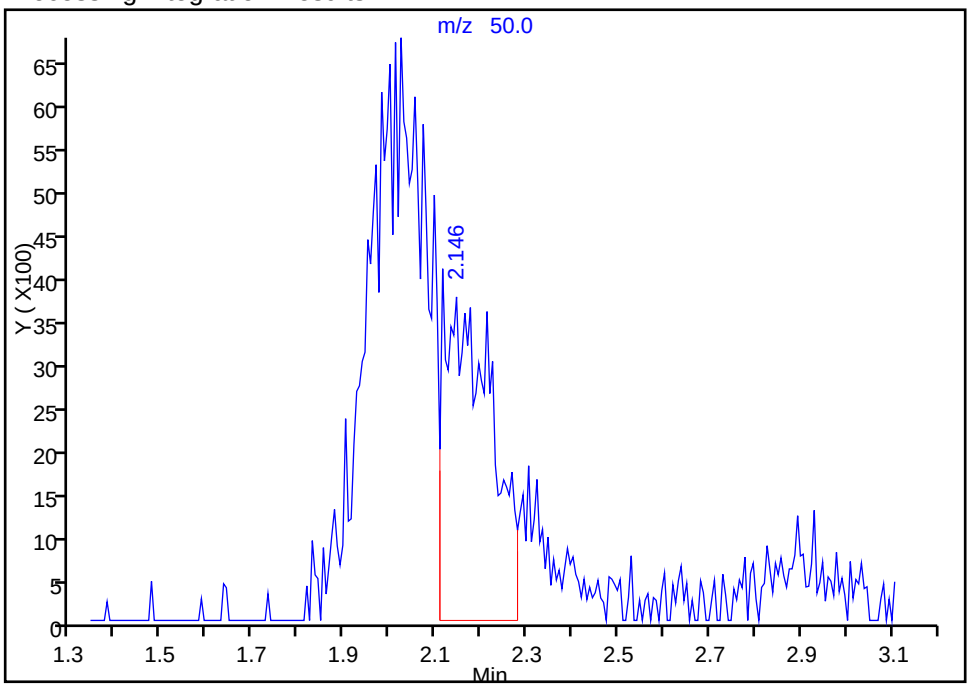
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D
Injection Date: 13-Jan-2015 11:33:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

11 Chloromethane, CAS: 74-87-3

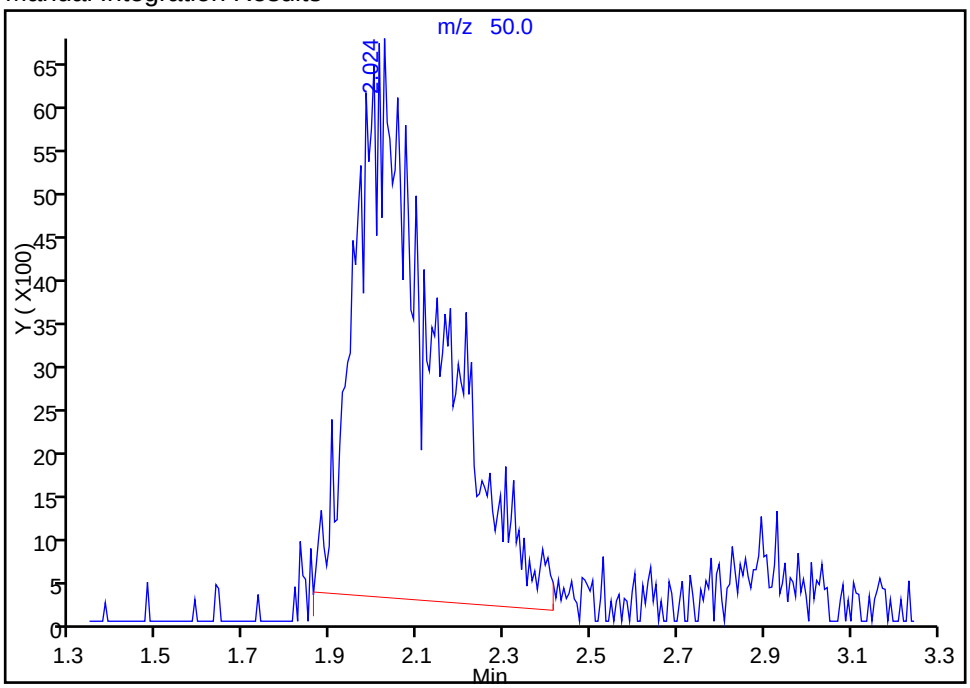
Processing Integration Results

RT: 2.15
Area: 27185
Amount: 48.842125
Amount Units: ng



Manual Integration Results

RT: 2.02
Area: 82718
Amount: 102.7065
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:28:43
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

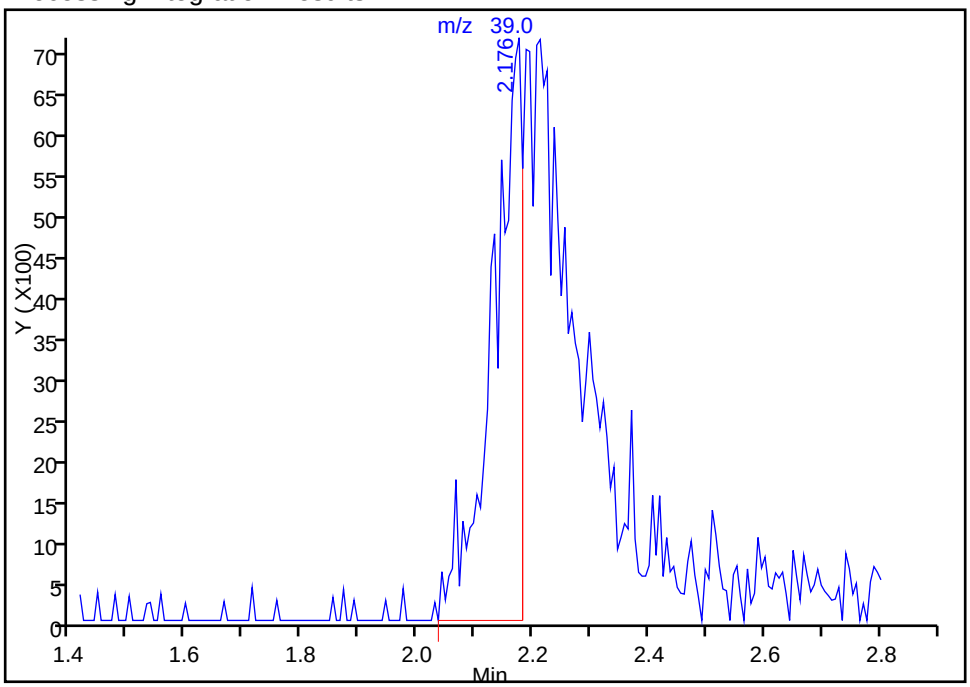
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D				
Injection Date:	13-Jan-2015 11:33:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

13 Butadiene, CAS: 106-99-0

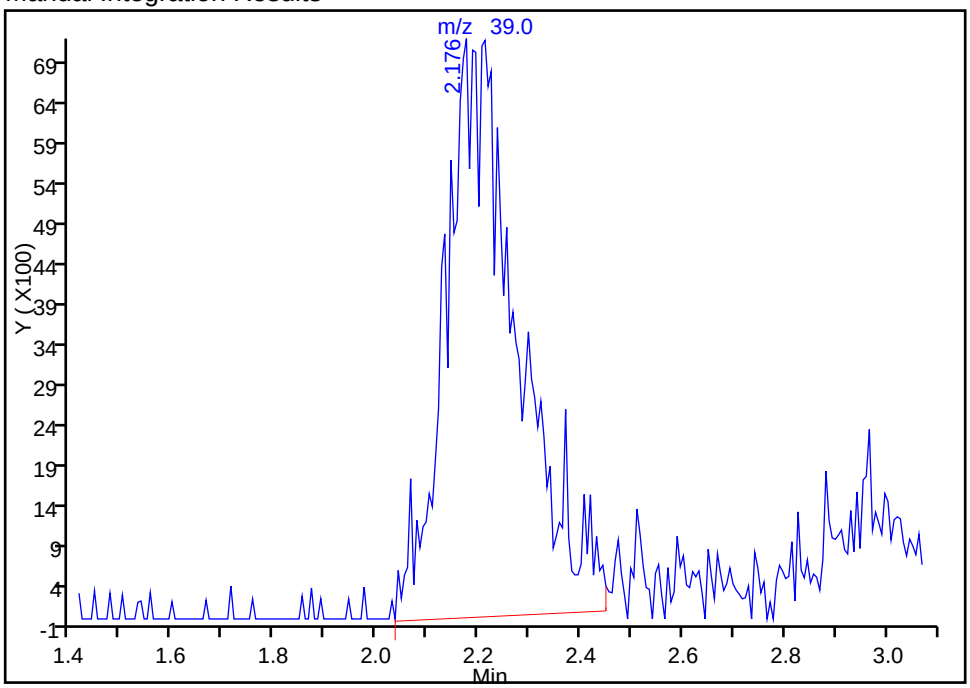
Processing Integration Results

RT: 2.18
Area: 25388
Amount: 38.831995
Amount Units: ng



Manual Integration Results

RT: 2.18
Area: 70885
Amount: 97.838469
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:29:50
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

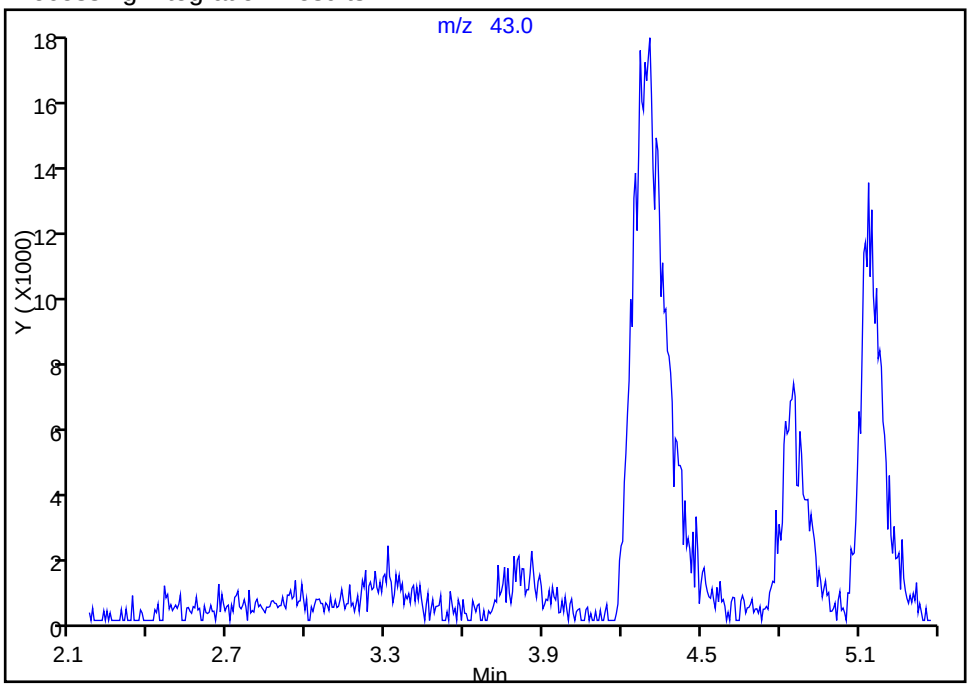
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D				
Injection Date:	13-Jan-2015 11:33:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

22 Acetone, CAS: 67-64-1

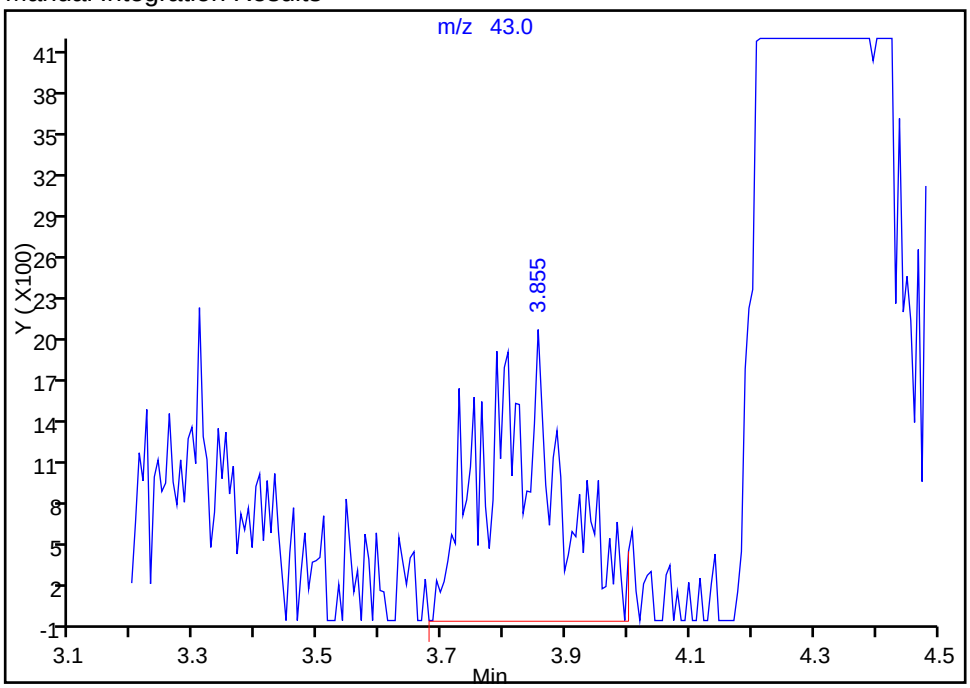
Not Detected
Expected RT: 3.77

Processing Integration Results



Manual Integration Results

RT: 3.86
Area: 16727
Amount: 104.4365
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:29:50
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

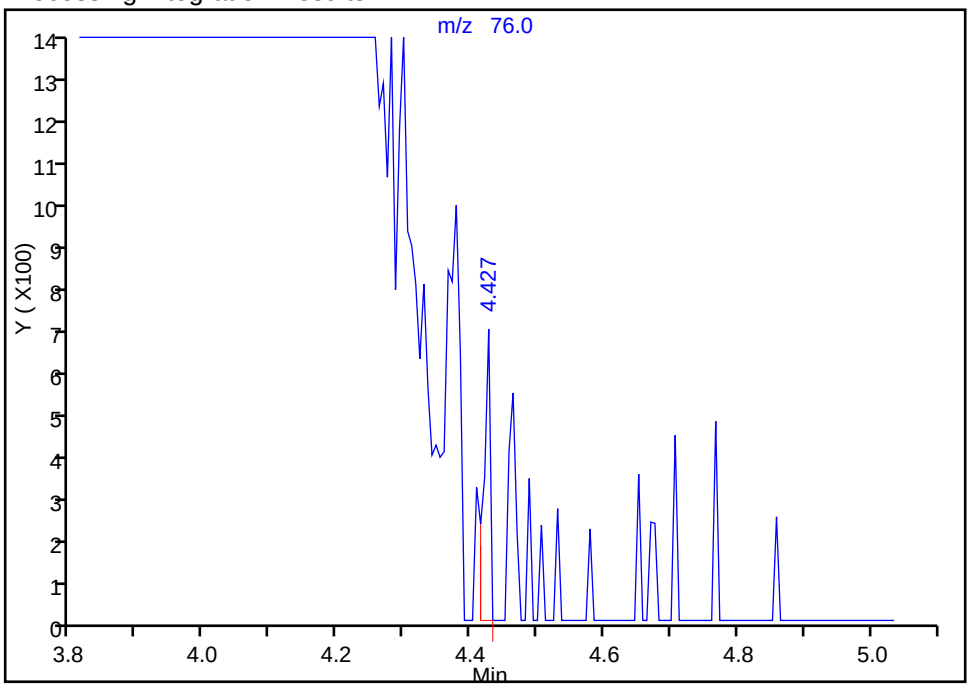
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D
Injection Date: 13-Jan-2015 11:33:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

26 3-Chloro-1-propene, CAS: 107-05-1

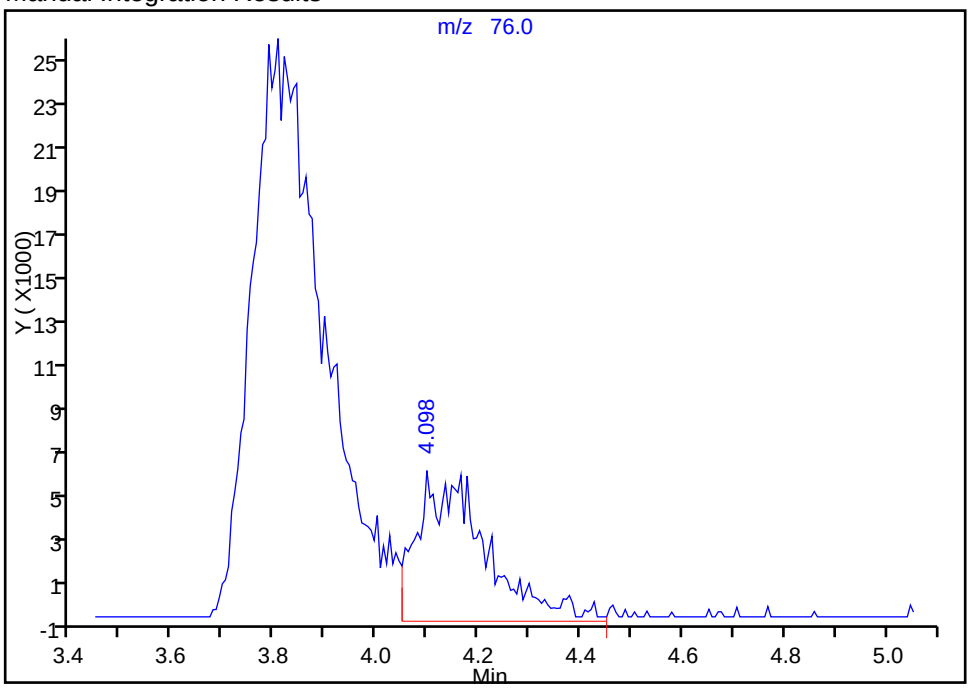
Processing Integration Results

RT: 4.43
Area: 449
Amount: 0.831699
Amount Units: ng



Manual Integration Results

RT: 4.10
Area: 62529
Amount: 127.7523
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:31:26
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

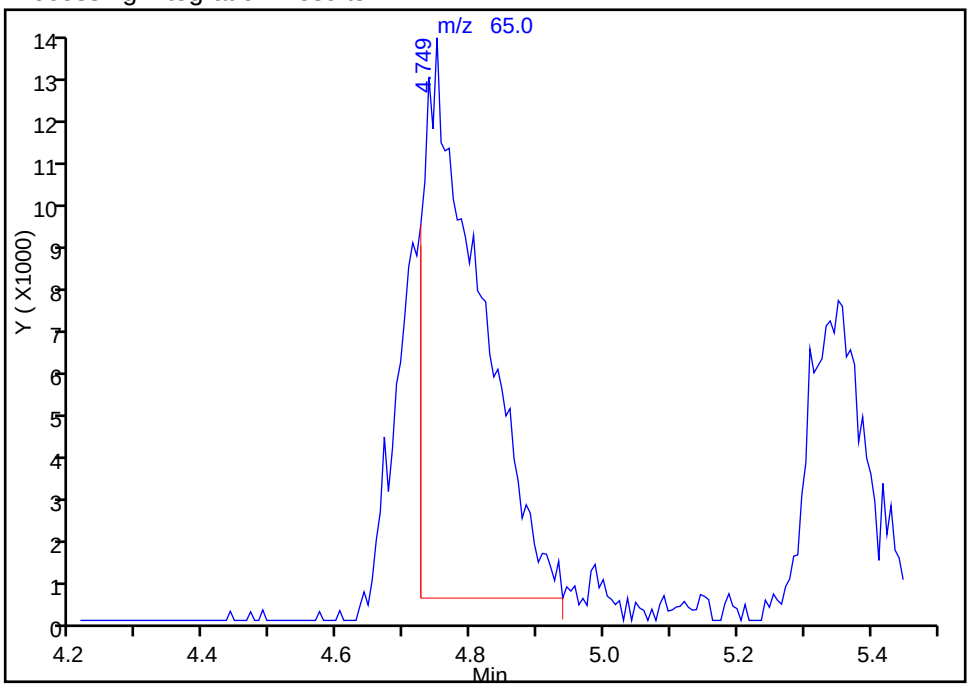
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D
Injection Date: 13-Jan-2015 11:33:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

* 1 TBA-d9 (IS), CAS: 25725-11-5

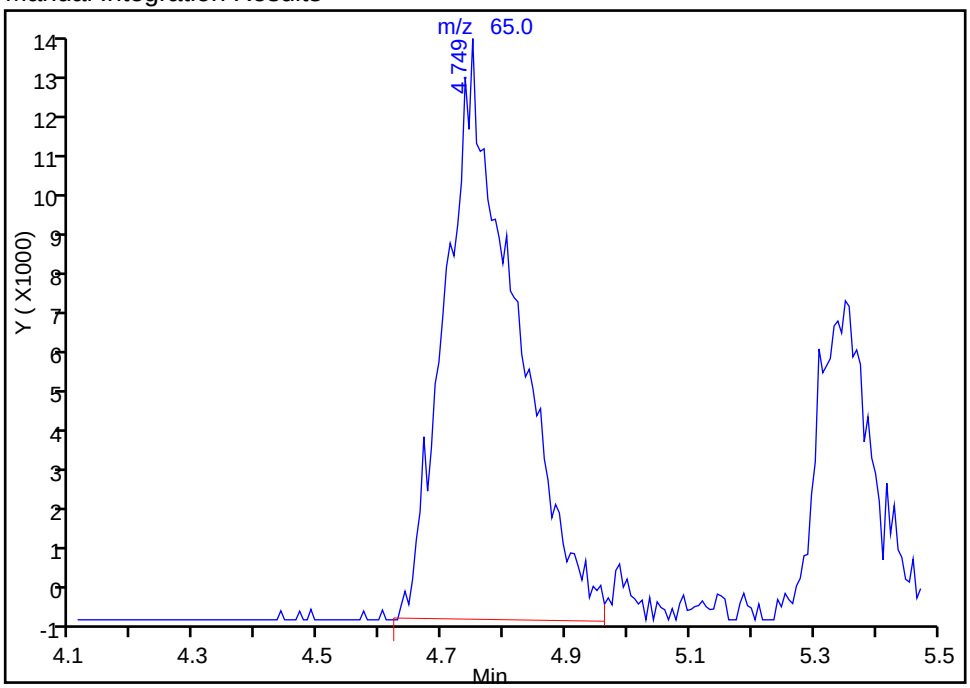
Processing Integration Results

RT: 4.75
Area: 74960
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.75
Area: 105148
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 12-Feb-2015 09:44:53
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

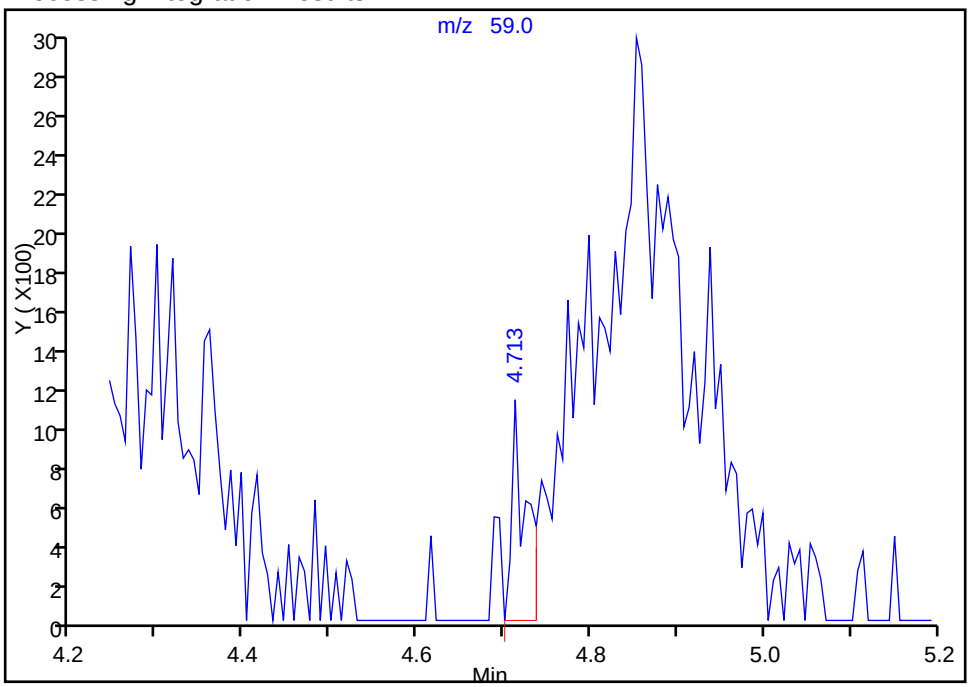
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D
Injection Date: 13-Jan-2015 11:33:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

32 2-Methyl-2-propanol, CAS: 75-65-0

Processing Integration Results

RT: 4.71
Area: 1252
Amount: 84.445260
Amount Units: ng



Manual Integration Results

RT: 4.85
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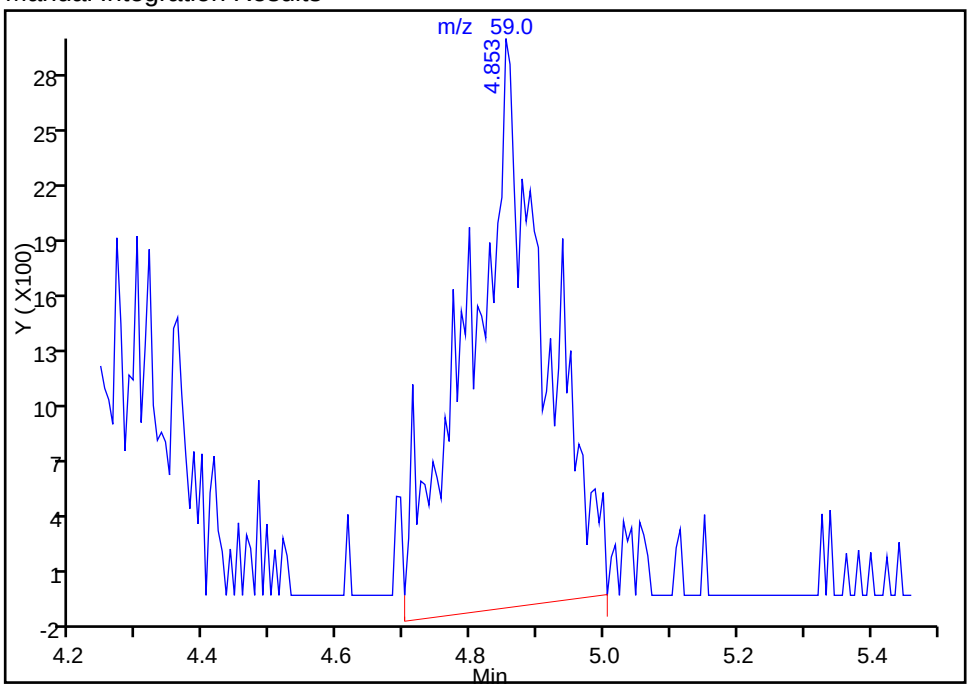
Amount: 999.1056
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:33:19
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

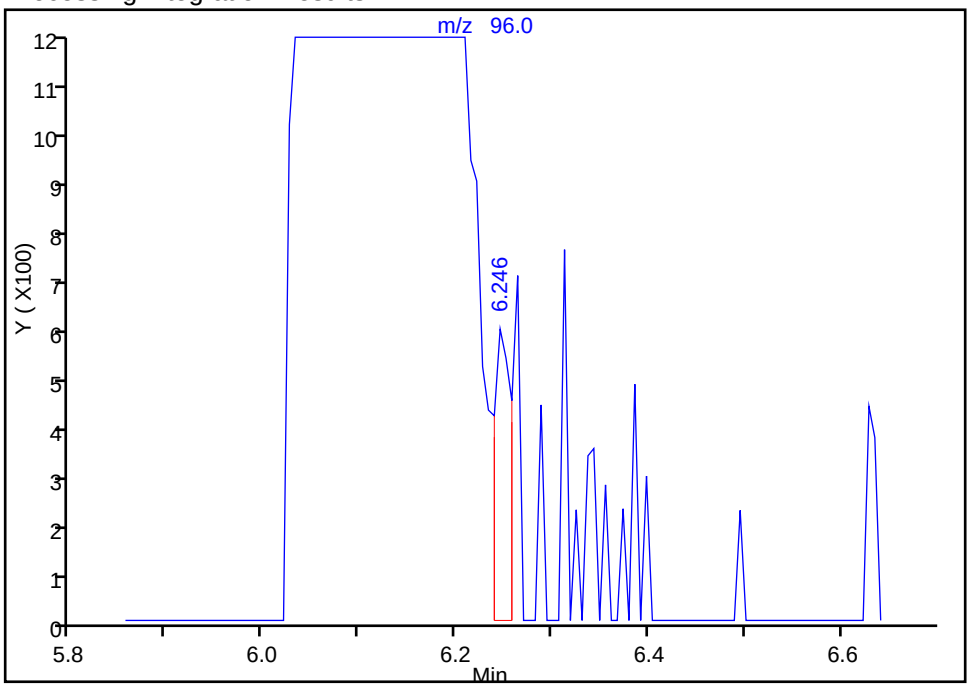
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D
Injection Date: 13-Jan-2015 11:33:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

41 cis-1,2-Dichloroethene, CAS: 156-59-2

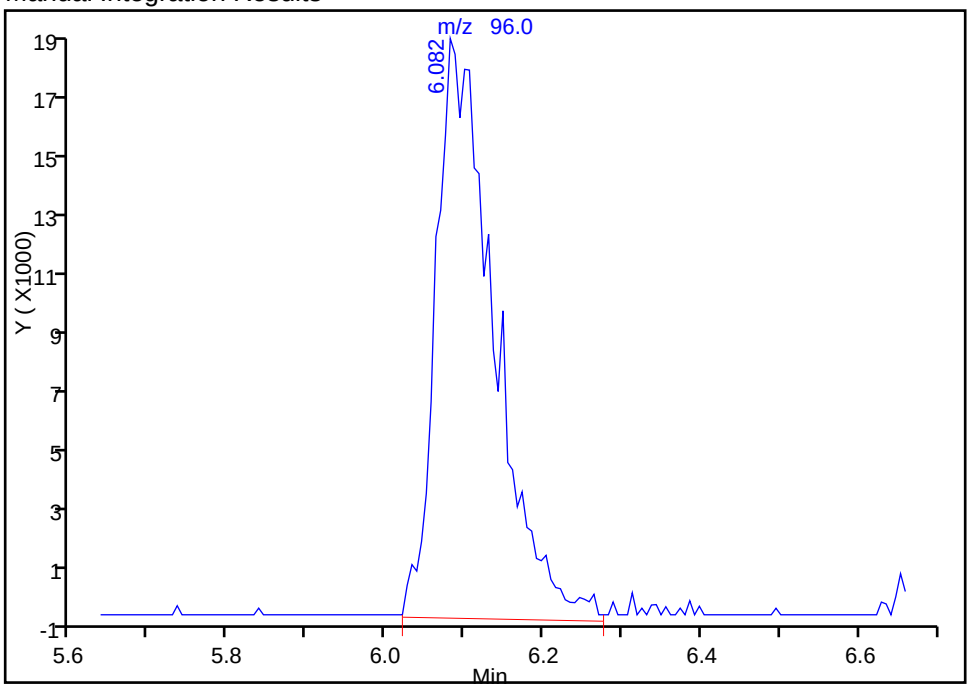
Processing Integration Results

RT: 6.25
Area: 687
Amount: 1.040645
Amount Units: ng



Manual Integration Results

RT: 6.08
Area: 96918
Amount: 124.9660
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:34:14
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

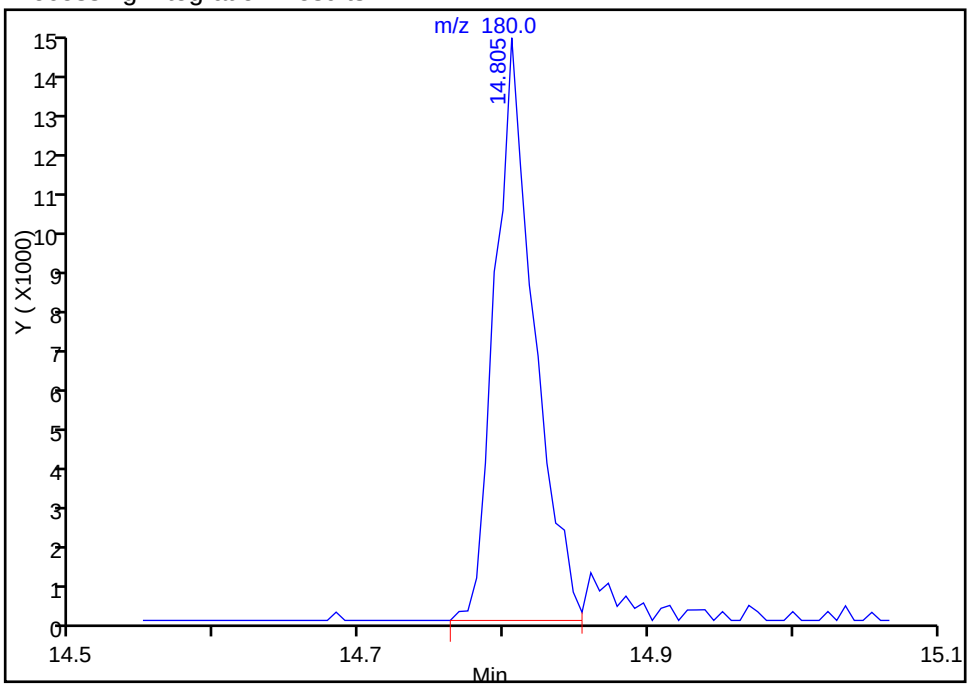
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011305.D
Injection Date: 13-Jan-2015 11:33:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

114 1,2,4-Trichlorobenzene, CAS: 120-82-1

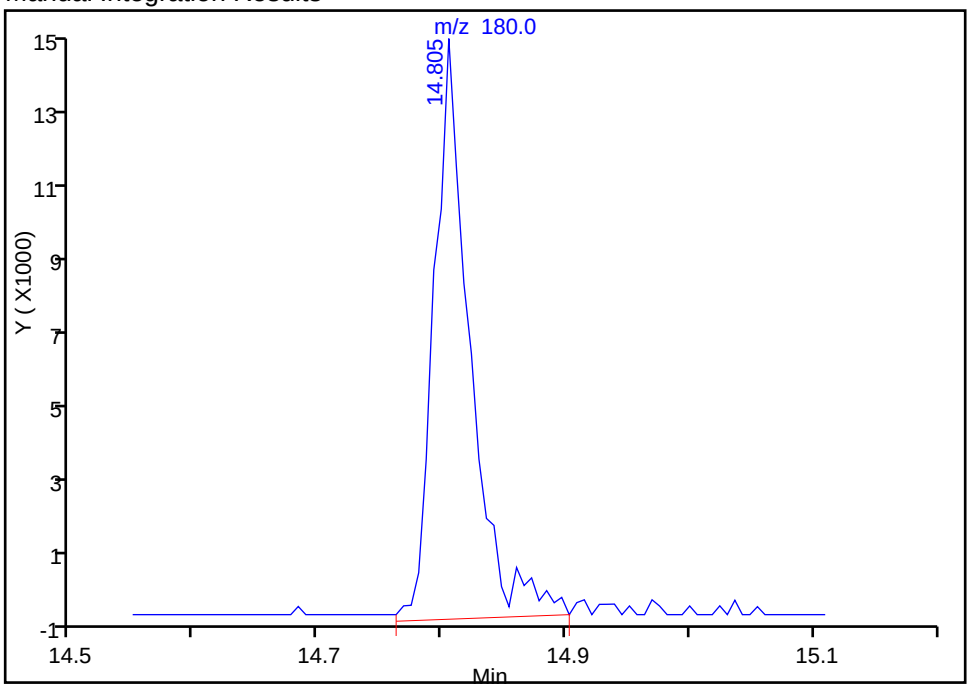
Processing Integration Results

RT: 14.81
Area: 27223
Amount: 104.4333
Amount Units: ng



Manual Integration Results

RT: 14.81
Area: 29606
Amount: 109.2043
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:39:40
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011306.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 13-Jan-2015 12:00:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 180-0005249-006
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub1

Method: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Feb-2015 14:21:08 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: journetp Date: 13-Jan-2015 12:36:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.704	4.704	0.000	92	78405	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.399	7.399	0.000	95	517000	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.465	10.465	0.000	86	128623	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.783	12.783	0.000	97	161057	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.675	6.675	0.000	68	119883	200.0	191.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.034	7.034	0.000	92	118879	200.0	196.0	
$ 7 Toluene-d8 (Surr)	98	9.035	9.035	0.000	93	390961	200.0	206.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.633	11.633	0.000	87	154243	200.0	209.3	
10 Dichlorodifluoromethane	85	1.905	1.905	0.000	30	132718	200.0	191.5	
11 Chloromethane	50	2.027	2.027	0.000	83	147230	200.0	189.4	M
12 Vinyl chloride	62	2.136	2.136	0.000	69	119820	200.0	190.7	
13 Butadiene	39	2.173	2.173	0.000	97	120038	200.0	171.6	
14 Bromomethane	94	2.508	2.508	0.000	88	93068	200.0	185.8	
15 Chloroethane	64	2.623	2.623	0.000	70	82520	200.0	167.7	
16 Trichlorofluoromethane	101	2.891	2.891	0.000	83	239224	200.0	177.4	
17 Dichlorofluoromethane	67	2.903	2.903	0.000	96	242600	200.0	179.3	
18 Ethyl ether	59	3.353	3.353	0.000	79	64700	200.0	160.8	
19 Acrolein	56	3.505	3.505	0.000	39	40783	875.0	793.0	
20 1,1-Dichloroethene	96	3.548	3.548	0.000	93	132273	200.0	189.4	
21 1,1,2-Trichloro-1,2,2-trif	101	3.657	3.657	0.000	84	147663	200.0	178.1	
22 Acetone	43	3.773	3.773	0.000	26	25708	200.0	157.2	M
23 Iodomethane	142	3.773	3.773	0.000	98	252958	200.0	190.5	
24 Carbon disulfide	76	3.828	3.828	0.000	100	500877	200.0	226.0	
26 3-Chloro-1-propene	76	4.162	4.162	0.000	30	83313	200.0	176.3	M
28 Methyl acetate	43	4.278	4.278	0.000	99	228540	1000.0	924.7	
29 Methylene Chloride	84	4.375	4.375	0.000	68	129349	200.0	185.5	M
30 trans-1,2-Dichloroethene	96	4.746	4.746	0.000	94	147453	200.0	197.7	
31 Acrylonitrile	53	4.777	4.777	0.000	97	203541	2000.0	1902.2	
32 2-Methyl-2-propanol	59	4.831	4.831	0.000	46	41856	2000.0	2392.9	
33 Methyl tert-butyl ether	73	4.850	4.850	0.000	97	282966	200.0	187.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Hexane	57	5.160	5.160	0.000	94	160502	200.0	188.4	
35 Vinyl acetate	43	5.166	5.166	0.000	67	100663	200.0	184.4	
36 1,1-Dichloroethane	63	5.349	5.349	0.000	95	221275	200.0	196.1	
41 cis-1,2-Dichloroethene	96	6.091	6.091	0.000	84	146094	200.0	195.2	
42 2,2-Dichloropropane	77	6.097	6.097	0.000	78	207872	200.0	189.0	
43 2-Butanone (MEK)	43	6.170	6.170	0.000	55	25608	200.0	167.5	
46 Chlorobromomethane	128	6.395	6.395	0.000	83	72808	200.0	205.8	
48 Tetrahydrofuran	42	6.450	6.450	0.000	78	29261	400.0	398.9	
49 Chloroform	83	6.498	6.498	0.000	93	229487	200.0	196.4	
50 1,1,1-Trichloroethane	97	6.681	6.681	0.000	97	224208	200.0	185.9	
51 Isobutyl alcohol	41	6.723	6.723	0.000	10	123955	5000.0	4539.5	
52 Cyclohexane	56	6.729	6.729	0.000	95	190351	200.0	189.8	
53 Carbon tetrachloride	117	6.857	6.857	0.000	94	231937	200.0	198.1	
54 1,1-Dichloropropene	75	6.863	6.863	0.000	84	151877	200.0	206.0	
55 Benzene	78	7.088	7.088	0.000	96	449623	200.0	198.3	
56 1,2-Dichloroethane	62	7.131	7.131	0.000	76	120373	200.0	176.8	
59 n-Heptane	43	7.405	7.405	0.000	80	138778	200.0	183.8	
60 Trichloroethene	130	7.788	7.788	0.000	96	149393	200.0	196.8	
63 Methylcyclohexane	83	7.983	7.983	0.000	89	223846	200.0	190.4	
64 1,2-Dichloropropane	63	8.025	8.025	0.000	89	86735	200.0	192.0	
65 Dibromomethane	93	8.153	8.153	0.000	94	61090	200.0	187.6	
67 1,4-Dioxane	88	8.177	8.177	0.000	27	5898	4000.0	3385.7	M
68 Dichlorobromomethane	83	8.311	8.311	0.000	98	157336	200.0	196.4	
71 cis-1,3-Dichloropropene	75	8.767	8.767	0.000	93	159523	200.0	200.2	
72 4-Methyl-2-pentanone (MIBK	43	8.932	8.932	0.000	96	58010	200.0	195.5	
73 Toluene	91	9.102	9.102	0.000	98	450085	200.0	209.9	
74 trans-1,3-Dichloropropene	75	9.327	9.327	0.000	95	116941	200.0	194.2	
75 Ethyl methacrylate	69	9.418	9.418	0.000	87	79697	200.0	189.9	
76 1,1,2-Trichloroethane	97	9.510	9.510	0.000	93	72908	200.0	204.5	
77 Tetrachloroethene	164	9.650	9.650	0.000	90	106614	200.0	208.5	
78 1,3-Dichloropropane	76	9.668	9.668	0.000	93	115623	200.0	207.9	
79 2-Hexanone	43	9.765	9.765	0.000	97	37916	200.0	186.5	
81 Chlorodibromomethane	129	9.893	9.893	0.000	90	118819	200.0	202.3	
82 Ethylene Dibromide	107	10.015	10.015	0.000	98	75105	200.0	197.7	
83 Chlorobenzene	112	10.495	10.495	0.000	94	315599	200.0	205.4	
84 1,1,1,2-Tetrachloroethane	131	10.574	10.574	0.000	94	131334	200.0	205.4	
85 Ethylbenzene	106	10.605	10.605	0.000	98	170206	200.0	203.6	
86 m-Xylene & p-Xylene	106	10.720	10.720	0.000	99	218850	200.0	203.6	
88 o-Xylene	106	11.116	11.116	0.000	97	230943	200.0	212.9	
89 Styrene	104	11.128	11.128	0.000	94	340316	200.0	209.2	
90 Bromoform	173	11.310	11.310	0.000	92	59767	200.0	199.1	
91 Isopropylbenzene	105	11.481	11.481	0.000	96	607518	200.0	196.6	
93 1,1,2,2-Tetrachloroethane	83	11.773	11.773	0.000	97	72619	200.0	202.7	
94 Bromobenzene	156	11.785	11.785	0.000	93	131687	200.0	206.5	
95 1,2,3-Trichloropropane	110	11.821	11.821	0.000	86	22967	200.0	185.4	
96 trans-1,4-Dichloro-2-buten	53	11.827	11.827	0.000	87	18420	200.0	211.8	
97 N-Propylbenzene	120	11.888	11.888	0.000	98	177550	200.0	209.7	
98 2-Chlorotoluene	126	11.980	11.980	0.000	98	151425	200.0	206.6	
99 1,3,5-Trimethylbenzene	105	12.059	12.059	0.000	96	490613	200.0	207.3	
100 4-Chlorotoluene	126	12.083	12.083	0.000	97	147089	200.0	207.4	
101 tert-Butylbenzene	119	12.387	12.387	0.000	93	478408	200.0	212.3	
103 1,2,4-Trimethylbenzene	105	12.436	12.436	0.000	97	487489	200.0	211.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
104 sec-Butylbenzene	105	12.606	12.606	0.000	95	638815	200.0	211.9	
105 1,3-Dichlorobenzene	146	12.722	12.722	0.000	97	248710	200.0	208.0	
106 4-Isopropyltoluene	119	12.752	12.752	0.000	96	526588	200.0	208.6	
107 1,4-Dichlorobenzene	146	12.807	12.807	0.000	93	227993	200.0	200.9	
110 n-Butylbenzene	91	13.160	13.160	0.000	97	441968	200.0	212.3	
111 1,2-Dichlorobenzene	146	13.190	13.190	0.000	97	195107	200.0	208.8	
112 1,2-Dibromo-3-Chloropropan	157	13.975	13.975	0.000	83	10358	200.0	176.0	
114 1,2,4-Trichlorobenzene	180	14.802	14.802	0.000	94	52170	200.0	196.3	
115 Hexachlorobutadiene	225	14.973	14.973	0.000	83	29728	200.0	191.6	
116 Naphthalene	128	15.058	15.058	0.000	96	93979	200.0	197.3	
117 1,2,3-Trichlorobenzene	180	15.307	15.307	0.000	94	33090	200.0	157.2	
S 130 1,2-Dichloroethene, Total	96				0		400.0	392.9	
S 129 Xylenes, Total	106				0		400.0	416.5	
S 131 1,3-Dichloropropene, Total	1				0		400.0	394.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00027	Amount Added:	10.00	Units: uL
voaWAcropri R_00006	Amount Added:	35.00	Units: uL
voaWVApri Res_00001	Amount Added:	8.00	Units: uL
VOA8260VOAPRI_00095	Amount Added:	8.00	Units: uL
VOA8260SURR_00017	Amount Added:	8.00	Units: uL

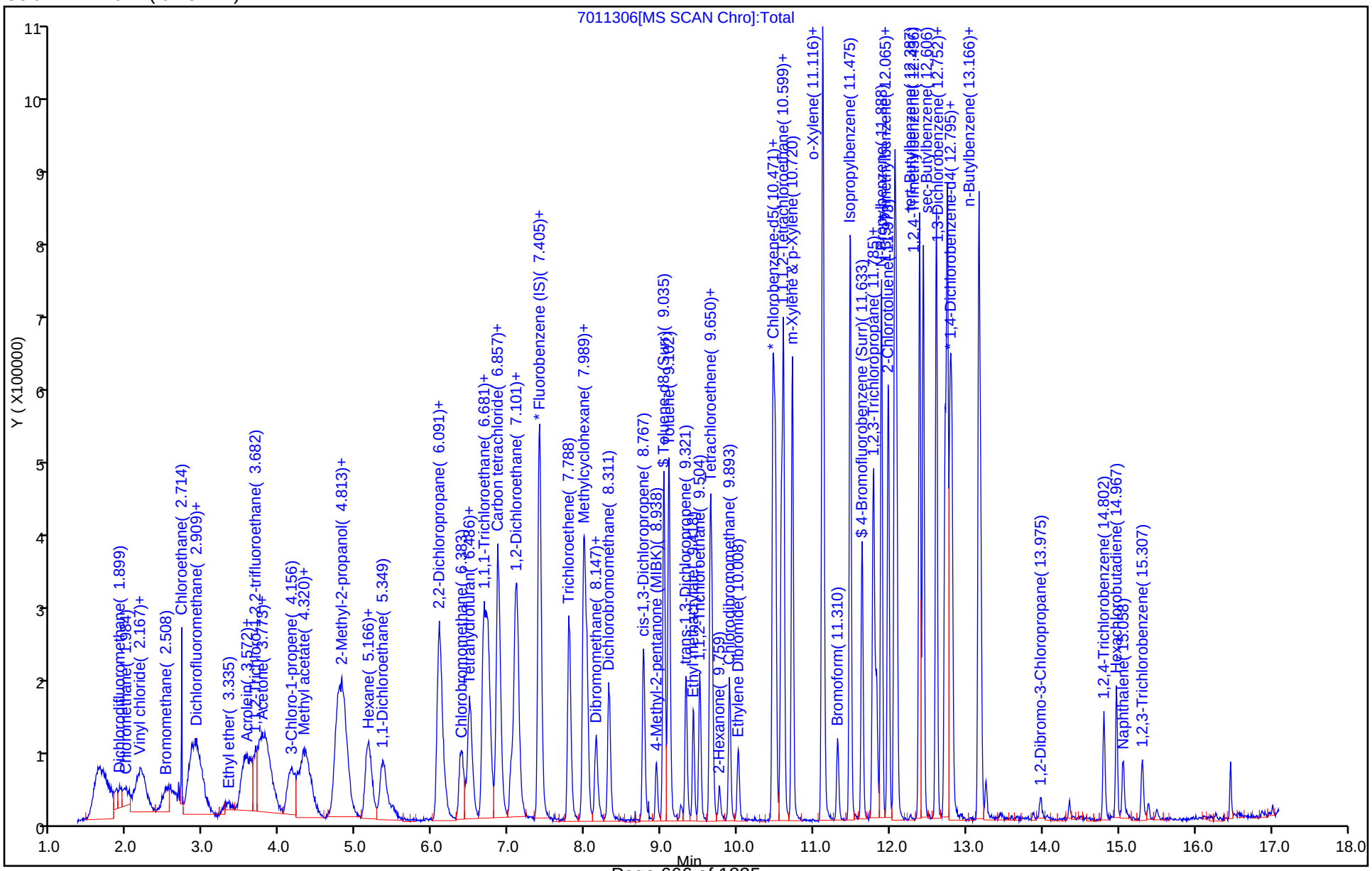
Report Date: 17-Feb-2015 14:21:09 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011306.D

Injection Date:	13-Jan-2015 12:00:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	ICIS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

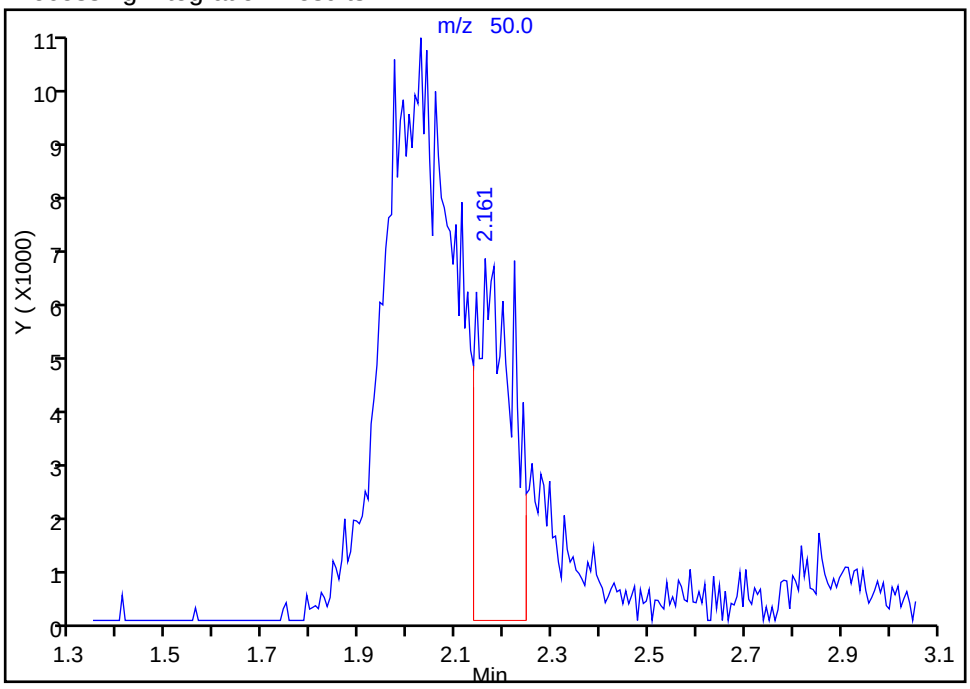
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011306.D
Injection Date: 13-Jan-2015 12:00:30 Instrument ID: CHHP7
Lims ID: ICIS
Client ID:
Operator ID: 034635 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

11 Chloromethane, CAS: 74-87-3

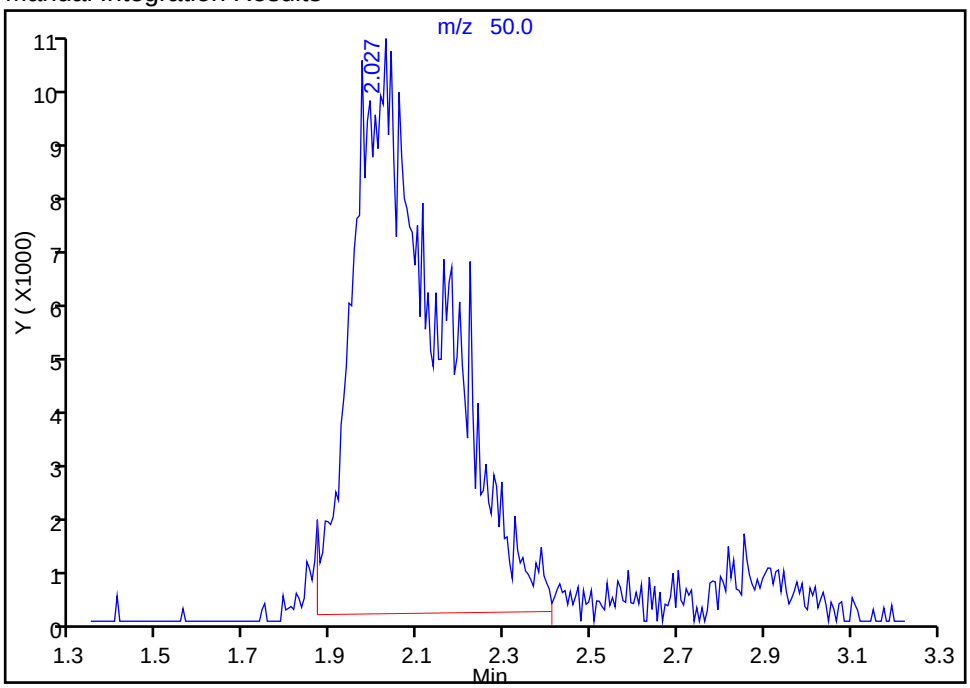
Processing Integration Results

RT: 2.16
Area: 33961
Amount: 55.790694
Amount Units: ng



Manual Integration Results

RT: 2.03
Area: 147230
Amount: 189.3880
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:29:14
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

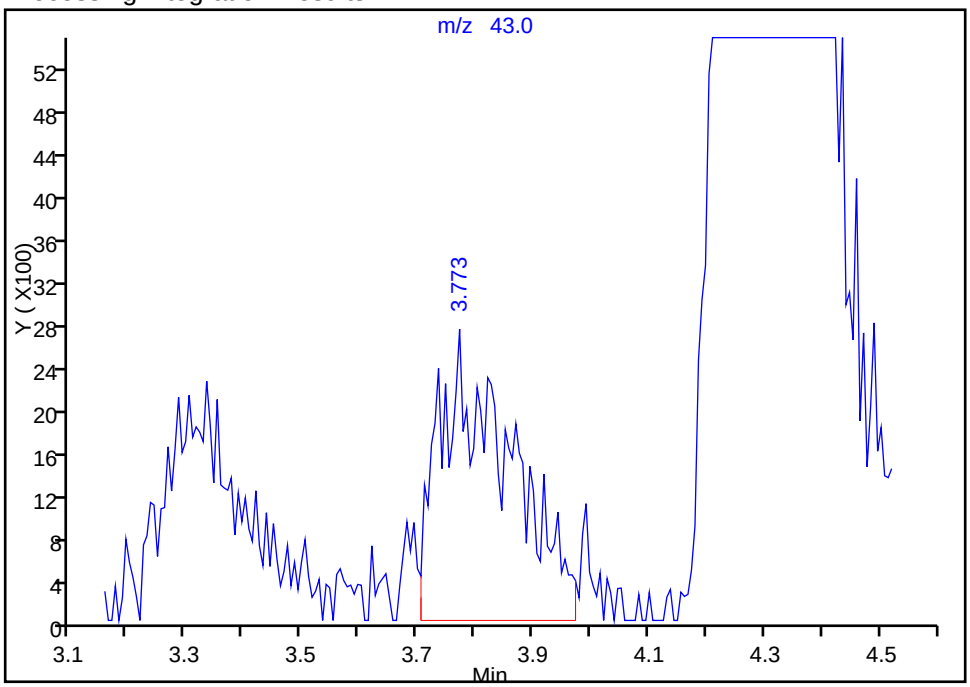
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011306.D
Injection Date: 13-Jan-2015 12:00:30 Instrument ID: CHHP7
Lims ID: ICIS
Client ID:
Operator ID: 034635 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

22 Acetone, CAS: 67-64-1

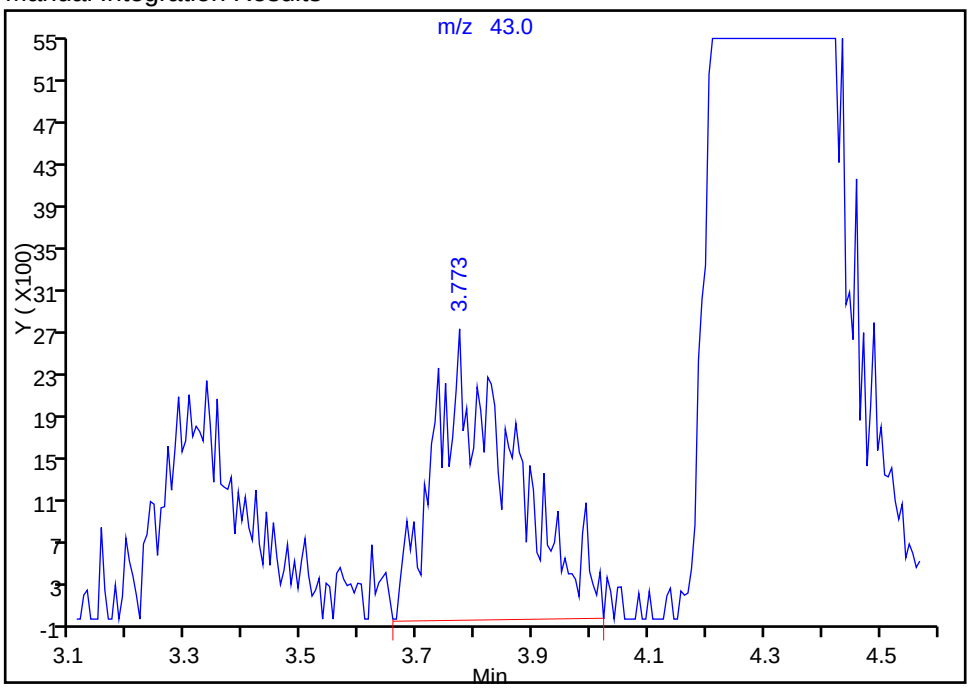
Processing Integration Results

RT: 3.77
Area: 22839
Amount: 143.4973
Amount Units: ng



Manual Integration Results

RT: 3.77
Area: 25708
Amount: 157.1760
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:30:45
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

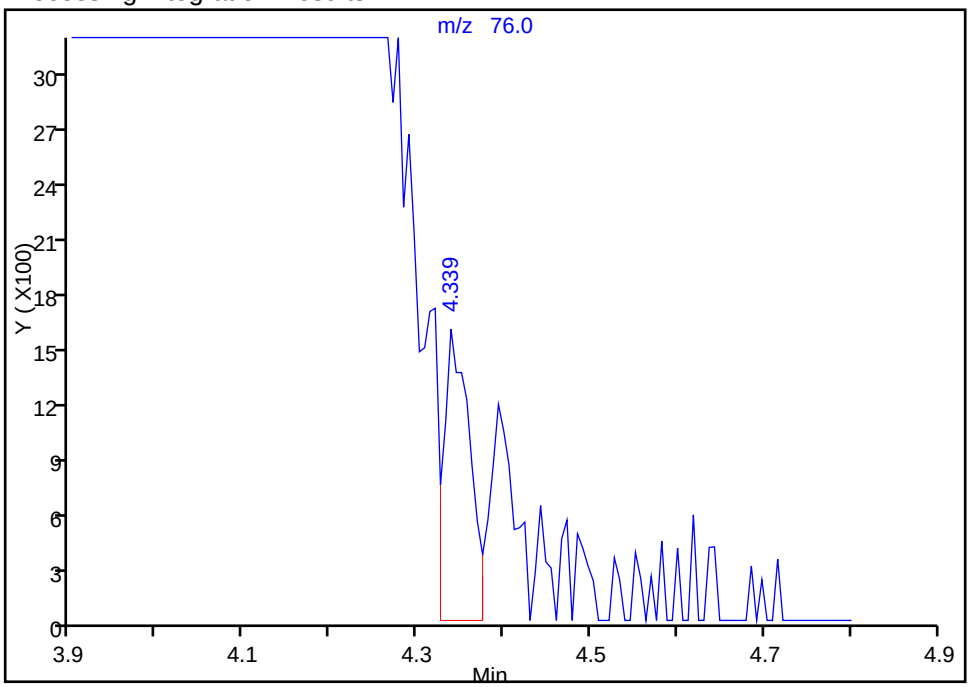
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011306.D
Injection Date: 13-Jan-2015 12:00:30 Instrument ID: CHHP7
Lims ID: ICIS
Client ID:
Operator ID: 034635 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

26 3-Chloro-1-propene, CAS: 107-05-1

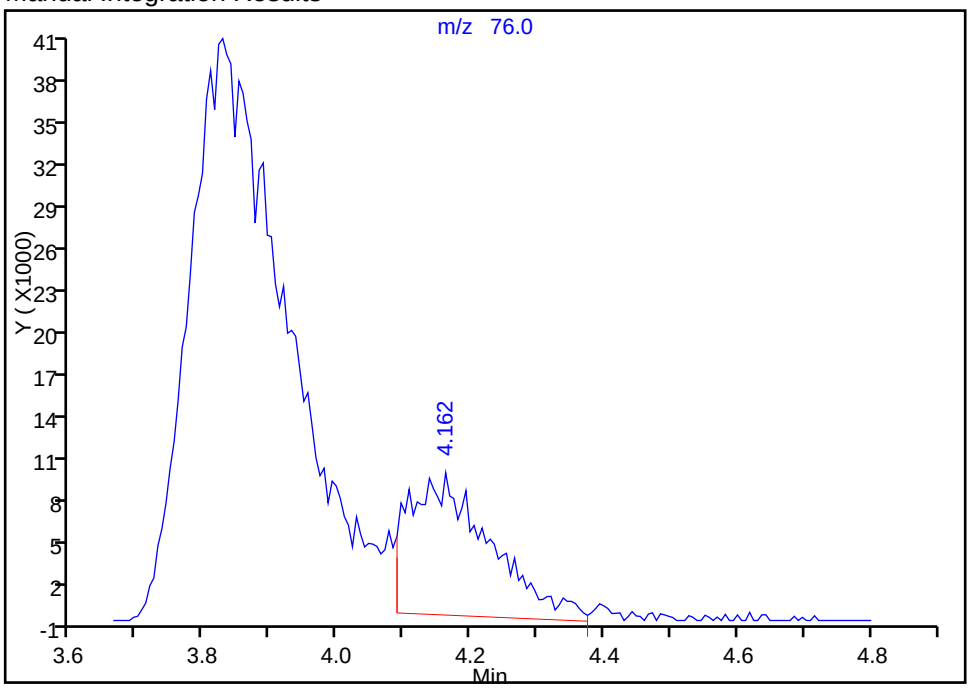
Processing Integration Results

RT: 4.34
Area: 3264
Amount: 7.400482
Amount Units: ng



Manual Integration Results

RT: 4.16
Area: 83313
Amount: 176.3430
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:30:45
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

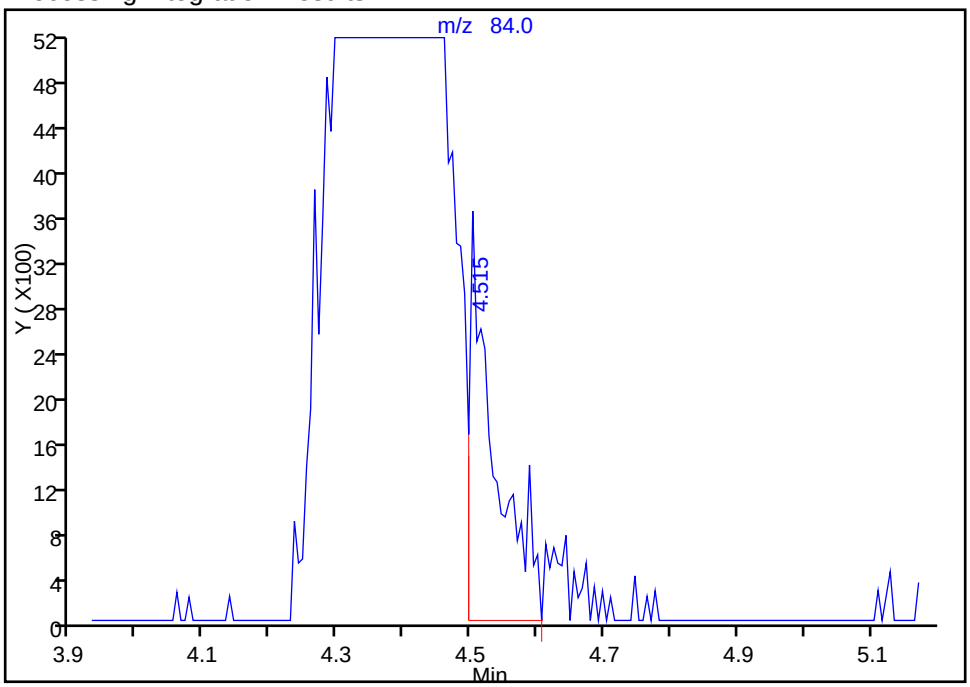
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011306.D
Injection Date: 13-Jan-2015 12:00:30 Instrument ID: CHHP7
Lims ID: ICIS
Client ID:
Operator ID: 034635 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

29 Methylene Chloride, CAS: 75-09-2

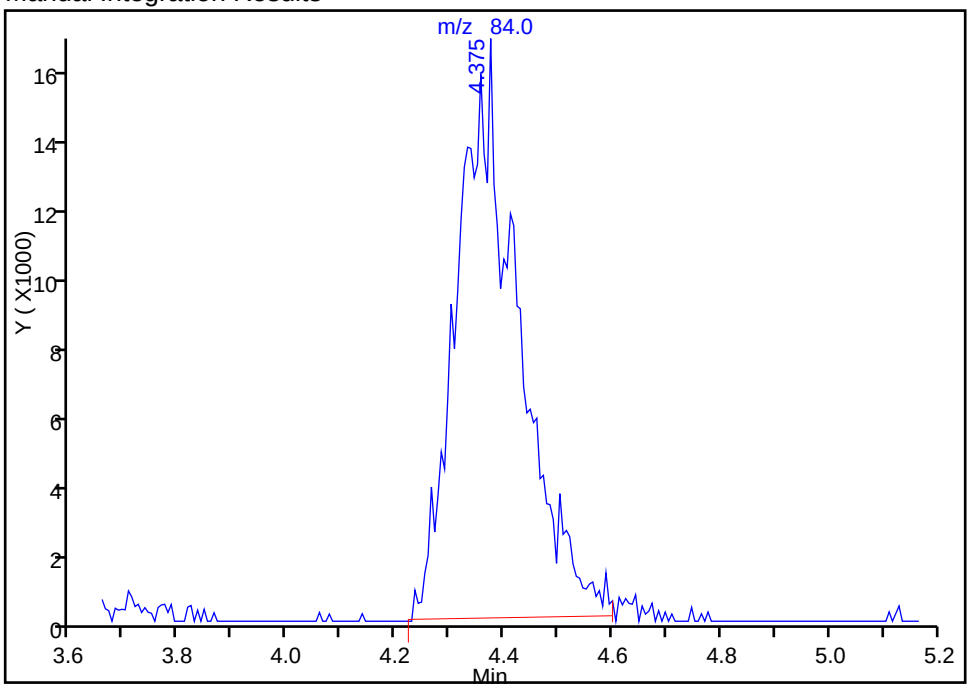
Processing Integration Results

RT: 4.52
Area: 9307
Amount: 15.055270
Amount Units: ng



Manual Integration Results

RT: 4.38
Area: 129349
Amount: 185.4881
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:32:50
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

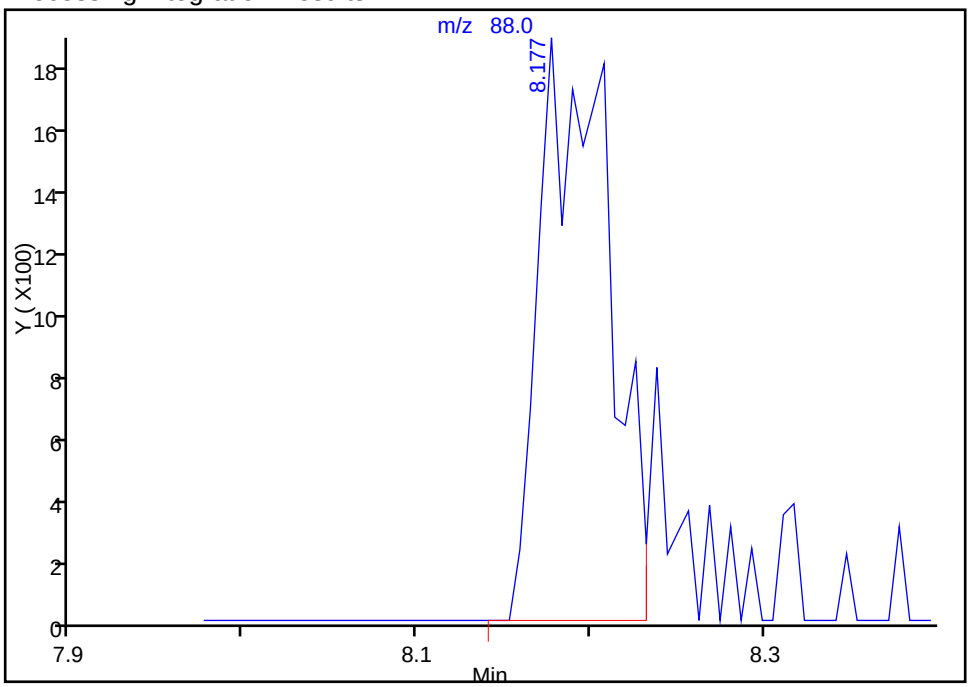
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011306.D
Injection Date: 13-Jan-2015 12:00:30 Instrument ID: CHHP7
Lims ID: ICIS
Client ID:
Operator ID: 034635 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

67 1,4-Dioxane, CAS: 123-91-1

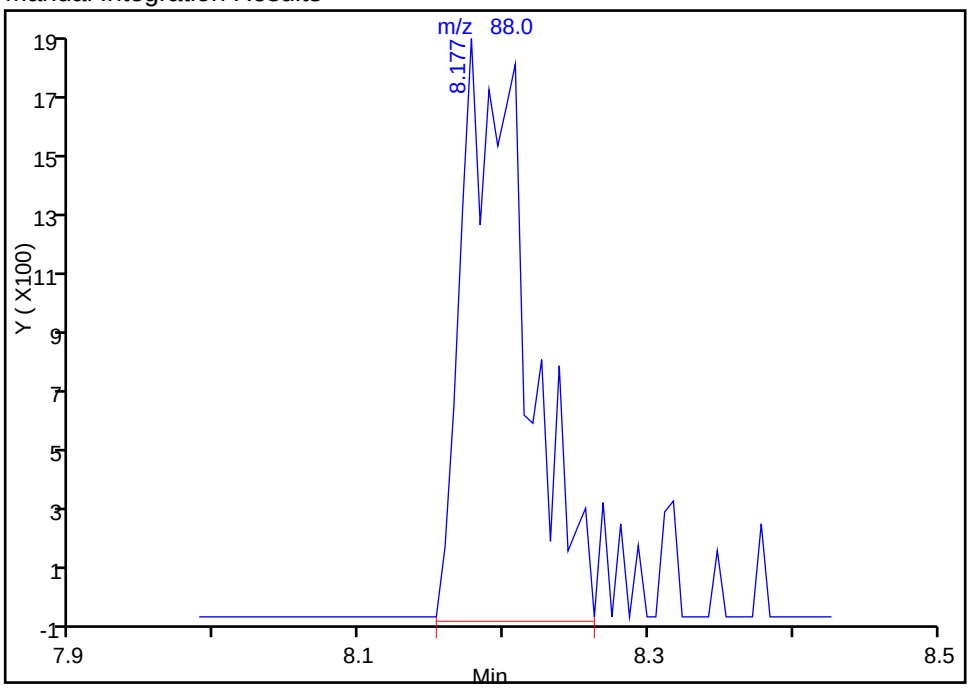
Processing Integration Results

RT: 8.18
Area: 5201
Amount: 4579.1187
Amount Units: ng



Manual Integration Results

RT: 8.18
Area: 5898
Amount: 3385.6694
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:35:09
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011307.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Jan-2015 12:26:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0005249-007
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub1

Method: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Feb-2015 14:21:12 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: journetp Date: 13-Jan-2015 13:15:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.646	4.704	-0.058	58	95177	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.402	7.399	0.003	94	512088	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.468	10.465	0.003	84	131713	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.786	12.783	0.003	95	170885	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.672	6.675	-0.003	69	149250	250.0	240.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.037	7.034	0.003	95	151433	250.0	252.1	
$ 7 Toluene-d8 (Surr)	98	9.033	9.035	-0.002	92	484850	250.0	249.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.630	11.633	-0.003	83	195495	250.0	259.0	
10 Dichlorodifluoromethane	85	1.915	1.905	0.010	32	174601	250.0	254.4	M
11 Chloromethane	50	2.012	2.027	-0.015	86	203631	250.0	264.5	M
12 Vinyl chloride	62	2.164	2.136	0.028	96	161656	250.0	259.7	
13 Butadiene	39	2.183	2.173	0.010	94	169915	250.0	245.3	
14 Bromomethane	94	2.505	2.508	-0.003	84	119646	250.0	242.9	
15 Chloroethane	64	2.633	2.623	0.010	77	115014	250.0	230.7	
16 Trichlorofluoromethane	101	2.840	2.891	-0.051	92	311978	250.0	233.6	
17 Dichlorofluoromethane	67	2.882	2.903	-0.021	93	297807	250.0	222.2	
18 Ethyl ether	59	3.351	3.353	-0.002	83	98429	250.0	247.0	
19 Acrolein	56	3.478	3.505	-0.027	65	52230	1000.0	1025.4	
20 1,1-Dichloroethene	96	3.564	3.548	0.016	91	172843	250.0	249.9	
21 1,1,2-Trichloro-1,2,2-trif	101	3.691	3.657	0.034	77	204076	250.0	248.5	M
22 Acetone	43	3.783	3.773	0.010	31	41277	250.0	247.8	M
23 Iodomethane	142	3.789	3.773	0.016	100	314103	250.0	238.8	
24 Carbon disulfide	76	3.862	3.828	0.034	99	504245	250.0	229.8	M
26 3-Chloro-1-propene	76	4.178	4.162	0.016	1	117413	250.0	250.9	M
28 Methyl acetate	43	4.287	4.278	0.009	97	309915	1250.0	1266.0	
29 Methylene Chloride	84	4.373	4.375	-0.002	88	162288	250.0	235.0	
30 trans-1,2-Dichloroethene	96	4.750	4.746	0.004	90	186096	250.0	251.9	
31 Acrylonitrile	53	4.780	4.777	0.003	97	277345	2500.0	2616.8	M
32 2-Methyl-2-propanol	59	4.786	4.831	-0.045	52	51474	2500.0	2424.2	
33 Methyl tert-butyl ether	73	4.841	4.850	-0.009	97	370195	250.0	247.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Hexane	57	5.176	5.160	0.016	95	205834	250.0	243.9	
35 Vinyl acetate	43	5.170	5.166	0.004	63	132780	250.0	238.4	
36 1,1-Dichloroethane	63	5.358	5.349	0.009	97	273945	250.0	245.1	
41 cis-1,2-Dichloroethene	96	6.100	6.091	0.009	79	181720	250.0	245.1	
42 2,2-Dichloropropane	77	6.088	6.097	-0.009	81	271155	250.0	248.9	
43 2-Butanone (MEK)	43	6.167	6.170	-0.003	76	33669	250.0	222.3	
46 Chlorobromomethane	128	6.380	6.395	-0.015	87	90951	250.0	259.6	
48 Tetrahydrofuran	42	6.465	6.450	0.015	50	36112	500.0	497.0	
49 Chloroform	83	6.490	6.498	-0.008	97	279758	250.0	241.7	
50 1,1,1-Trichloroethane	97	6.684	6.681	0.003	98	283359	250.0	237.2	
51 Isobutyl alcohol	41	6.727	6.723	0.004	25	160684	6250.0	5941.1	
52 Cyclohexane	56	6.739	6.729	0.010	90	242617	250.0	244.2	
53 Carbon tetrachloride	117	6.855	6.857	-0.002	95	285485	250.0	246.1	
54 1,1-Dichloropropene	75	6.873	6.863	0.010	86	185940	250.0	256.7	
55 Benzene	78	7.098	7.088	0.010	97	550707	250.0	245.2	
56 1,2-Dichloroethane	62	7.122	7.131	-0.009	97	163836	250.0	242.9	
59 n-Heptane	43	7.402	7.405	-0.003	66	183364	250.0	245.2	
60 Trichloroethene	130	7.792	7.788	0.004	96	183406	250.0	244.0	
63 Methylcyclohexane	83	7.986	7.983	0.003	90	287817	250.0	247.1	
64 1,2-Dichloropropane	63	8.023	8.025	-0.002	89	107707	250.0	240.8	
65 Dibromomethane	93	8.144	8.153	-0.009	92	82134	250.0	254.7	
67 1,4-Dioxane	88	8.193	8.177	0.016	31	8965	5000.0	4603.5	
68 Dichlorobromomethane	83	8.321	8.311	0.010	96	194277	250.0	244.9	
71 cis-1,3-Dichloropropene	75	8.765	8.767	-0.002	92	202862	250.0	257.0	
72 4-Methyl-2-pentanone (MIBK	43	8.935	8.932	0.003	96	79994	250.0	263.2	
73 Toluene	91	9.100	9.102	-0.002	98	558138	250.0	254.2	
74 trans-1,3-Dichloropropene	75	9.325	9.327	-0.002	94	164265	250.0	266.4	
75 Ethyl methacrylate	69	9.422	9.418	0.004	88	107987	250.0	251.2	
76 1,1,2-Trichloroethane	97	9.501	9.510	-0.009	92	96436	250.0	264.1	
77 Tetrachloroethene	164	9.647	9.650	-0.003	89	129935	250.0	248.1	
78 1,3-Dichloropropane	76	9.671	9.668	0.003	94	141233	250.0	247.9	
79 2-Hexanone	43	9.757	9.765	-0.008	97	57105	250.0	264.7	
81 Chlorodibromomethane	129	9.896	9.893	0.003	89	157283	250.0	261.5	
82 Ethylene Dibromide	107	10.012	10.015	-0.003	97	99614	250.0	256.0	
83 Chlorobenzene	112	10.493	10.495	-0.002	95	393816	250.0	250.2	
84 1,1,1,2-Tetrachloroethane	131	10.572	10.574	-0.002	94	166943	250.0	254.9	
85 Ethylbenzene	106	10.602	10.605	-0.003	98	213634	250.0	249.5	
86 m-Xylene & p-Xylene	106	10.718	10.720	-0.002	98	276812	250.0	251.5	
88 o-Xylene	106	11.113	11.116	-0.003	97	276433	250.0	248.9	
89 Styrene	104	11.125	11.128	-0.003	94	417972	250.0	250.9	
90 Bromoform	173	11.314	11.310	0.004	92	80601	250.0	262.2	
91 Isopropylbenzene	105	11.478	11.481	-0.003	97	756190	250.0	239.0	
93 1,1,2,2-Tetrachloroethane	83	11.770	11.773	-0.003	97	96089	250.0	261.9	
94 Bromobenzene	156	11.782	11.785	-0.003	93	162643	250.0	240.3	
95 1,2,3-Trichloropropane	110	11.819	11.821	-0.002	85	33873	250.0	257.7	
96 trans-1,4-Dichloro-2-buten	53	11.825	11.827	-0.002	66	22810	250.0	246.0	
97 N-Propylbenzene	120	11.886	11.888	-0.002	97	221683	250.0	246.8	
98 2-Chlorotoluene	126	11.977	11.980	-0.003	97	187501	250.0	241.2	
99 1,3,5-Trimethylbenzene	105	12.062	12.059	0.003	96	602158	250.0	239.8	
100 4-Chlorotoluene	126	12.086	12.083	0.003	97	177812	250.0	236.3	
101 tert-Butylbenzene	119	12.385	12.387	-0.002	92	578295	250.0	241.8	
103 1,2,4-Trimethylbenzene	105	12.433	12.436	-0.003	97	602903	250.0	246.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
104 sec-Butylbenzene	105	12.610	12.606	0.004	94	798690	250.0	249.7	
105 1,3-Dichlorobenzene	146	12.719	12.722	-0.003	97	314017	250.0	247.5	
106 4-Isopropyltoluene	119	12.750	12.752	-0.002	96	643604	250.0	240.3	
107 1,4-Dichlorobenzene	146	12.810	12.807	0.003	94	295546	250.0	245.4	
110 n-Butylbenzene	91	13.163	13.160	0.003	97	552041	250.0	249.9	
111 1,2-Dichlorobenzene	146	13.188	13.190	-0.002	97	257492	250.0	259.7	
112 1,2-Dibromo-3-Chloropropan	157	13.972	13.975	-0.003	84	14806	250.0	220.2	
114 1,2,4-Trichlorobenzene	180	14.800	14.802	-0.002	92	87417	250.0	309.9	
115 Hexachlorobutadiene	225	14.970	14.973	-0.003	89	46562	250.0	282.8	
116 Naphthalene	128	15.049	15.058	-0.009	96	153898	250.0	304.5	
117 1,2,3-Trichlorobenzene	180	15.305	15.307	-0.002	94	57033	250.0	227.2	
S 130 1,2-Dichloroethene, Total	96				0		500.0	497.0	
S 129 Xylenes, Total	106				0		500.0	500.3	
S 131 1,3-Dichloropropene, Total	1				0		500.0	523.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00027	Amount Added:	10.00	Units: uL
voaWAcropri R_00006	Amount Added:	40.00	Units: uL
voaWVApri Res_00001	Amount Added:	10.00	Units: uL
VOA8260VOAPRI_00095	Amount Added:	10.00	Units: uL
VOA8260SURR_00017	Amount Added:	10.00	Units: uL

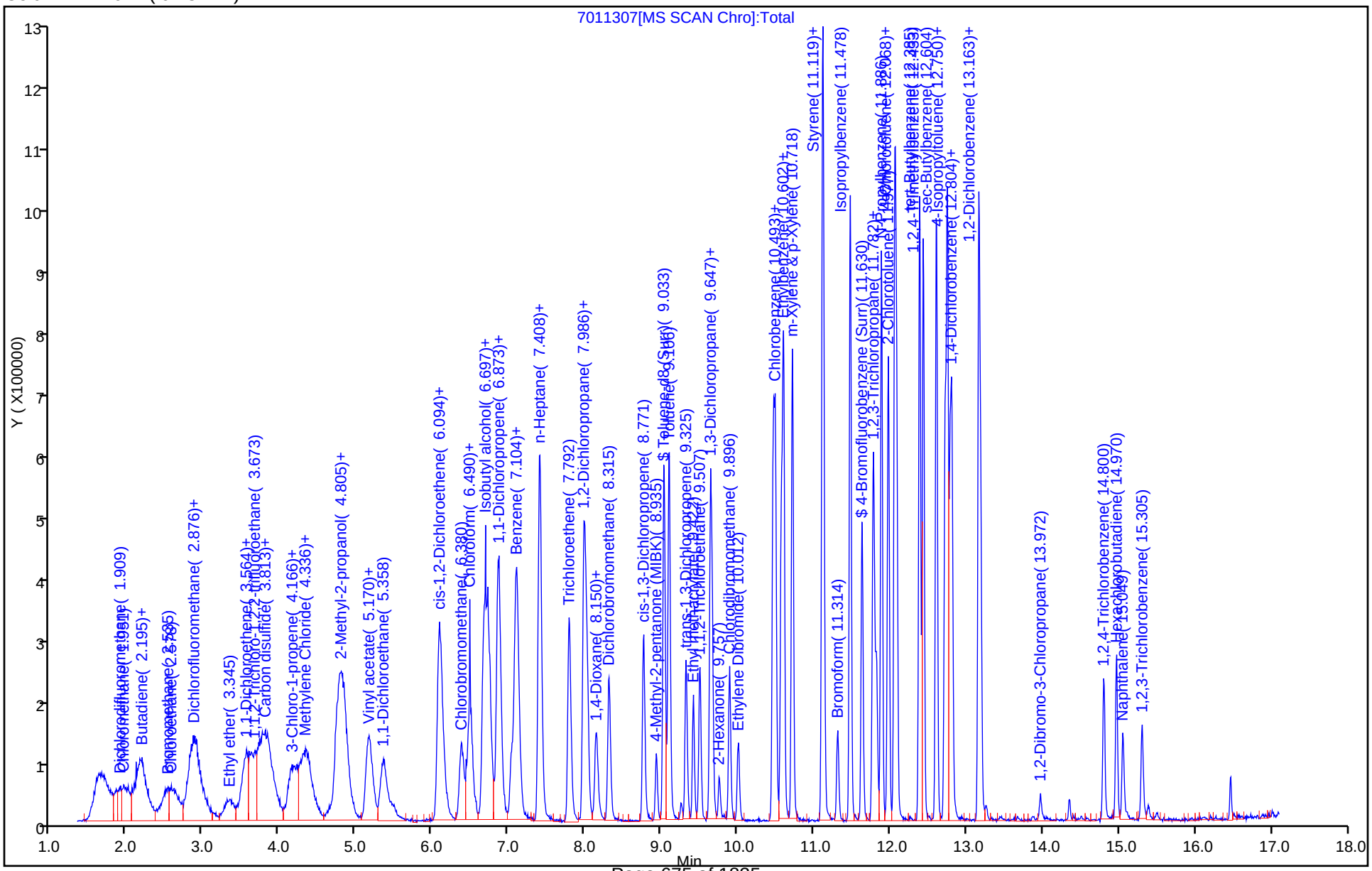
Report Date: 17-Feb-2015 14:21:13 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011307.D

Injection Date:	13-Jan-2015 12:26:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

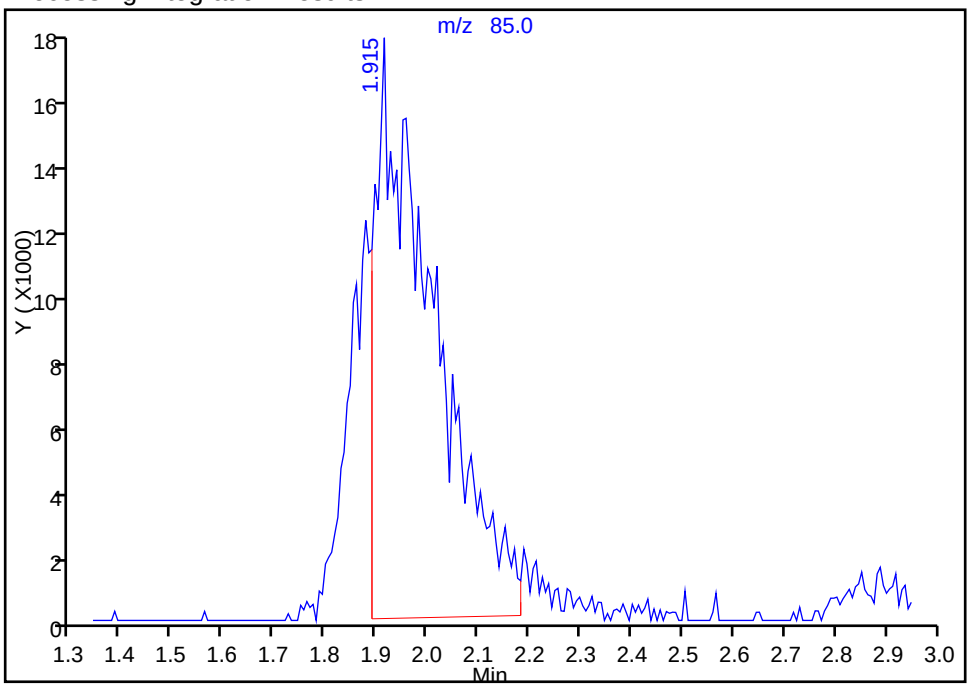
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011307.D				
Injection Date:	13-Jan-2015 12:26:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

10 Dichlorodifluoromethane, CAS: 75-71-8

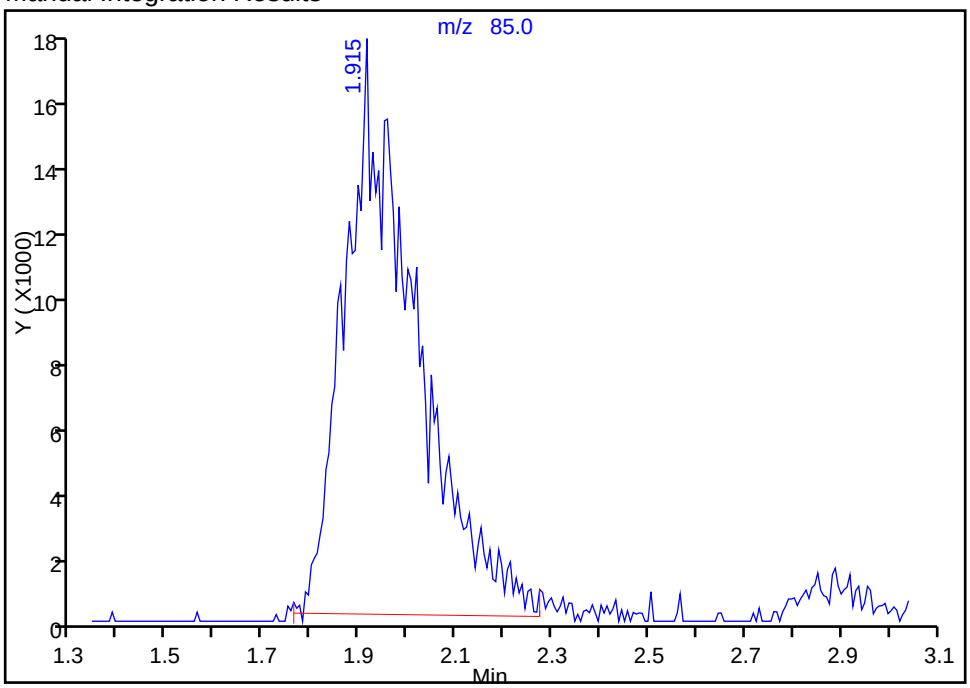
Processing Integration Results

RT: 1.91
Area: 136557
Amount: 279.5308
Amount Units: ng



Manual Integration Results

RT: 1.91
Area: 174601
Amount: 254.3627
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:19:07
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

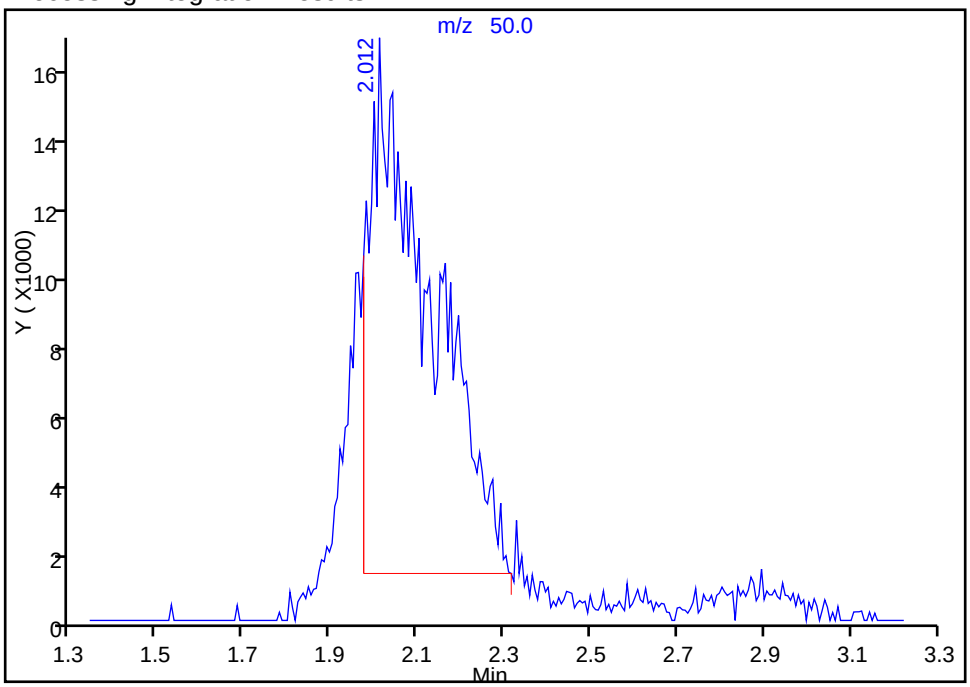
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011307.D
Injection Date: 13-Jan-2015 12:26:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

11 Chloromethane, CAS: 74-87-3

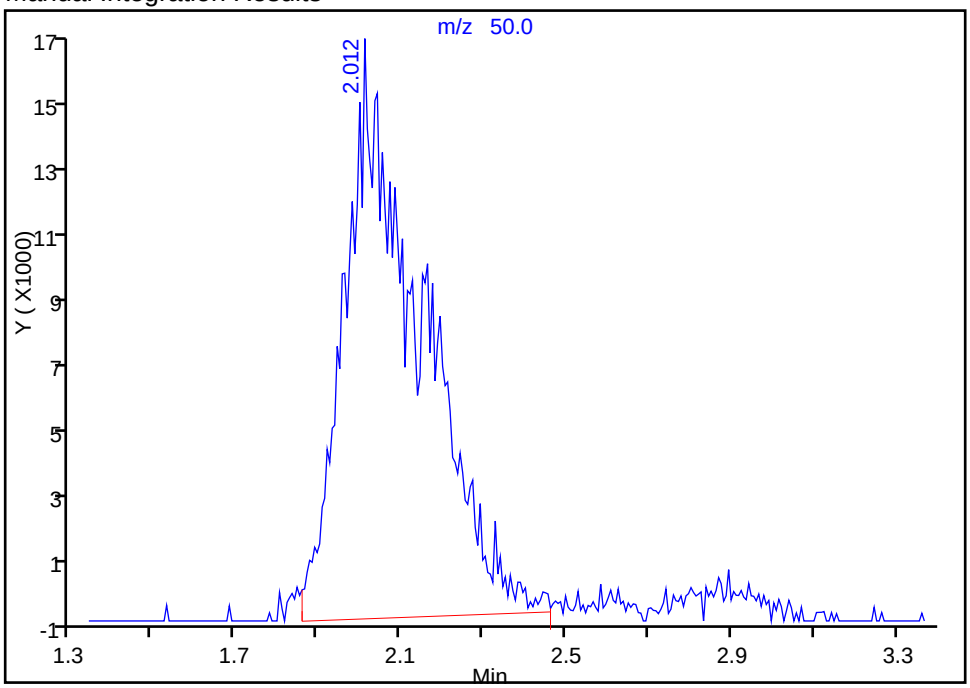
Processing Integration Results

RT: 2.01
Area: 142972
Amount: 307.6461
Amount Units: ng



Manual Integration Results

RT: 2.01
Area: 203631
Amount: 264.4515
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:19:07
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

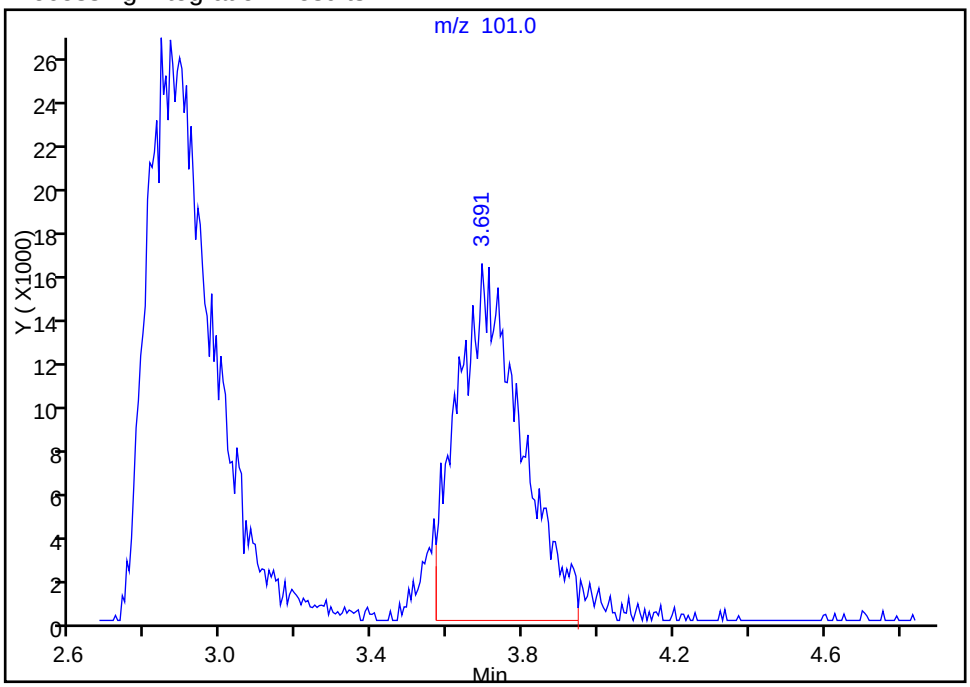
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011307.D
Injection Date: 13-Jan-2015 12:26:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

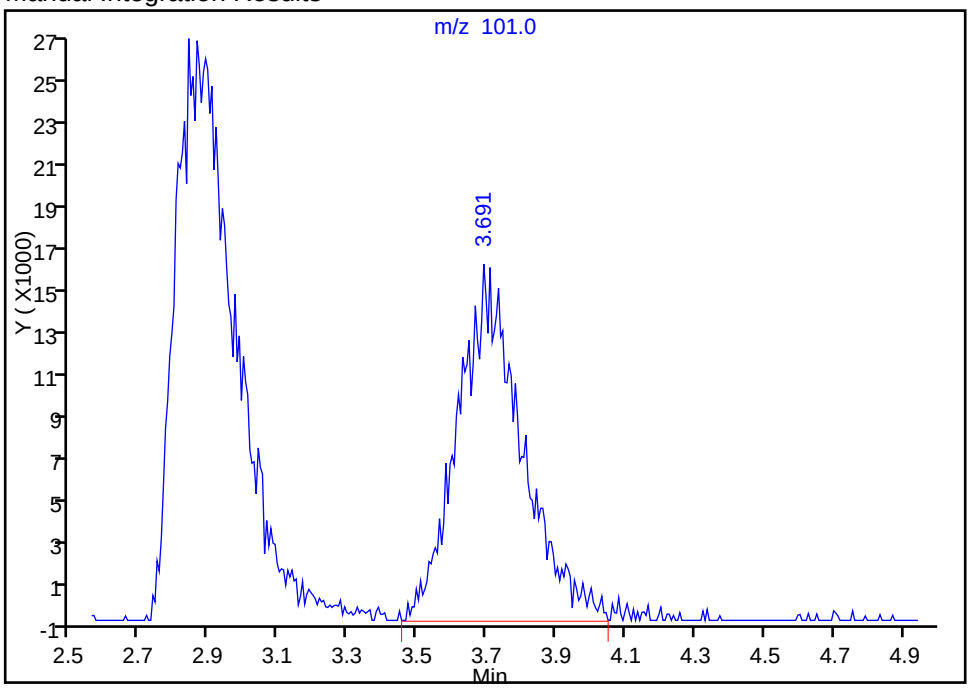
Processing Integration Results

RT: 3.69
Area: 186224
Amount: 254.8476
Amount Units: ng



Manual Integration Results

RT: 3.69
Area: 204076
Amount: 248.5205
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:19:07
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

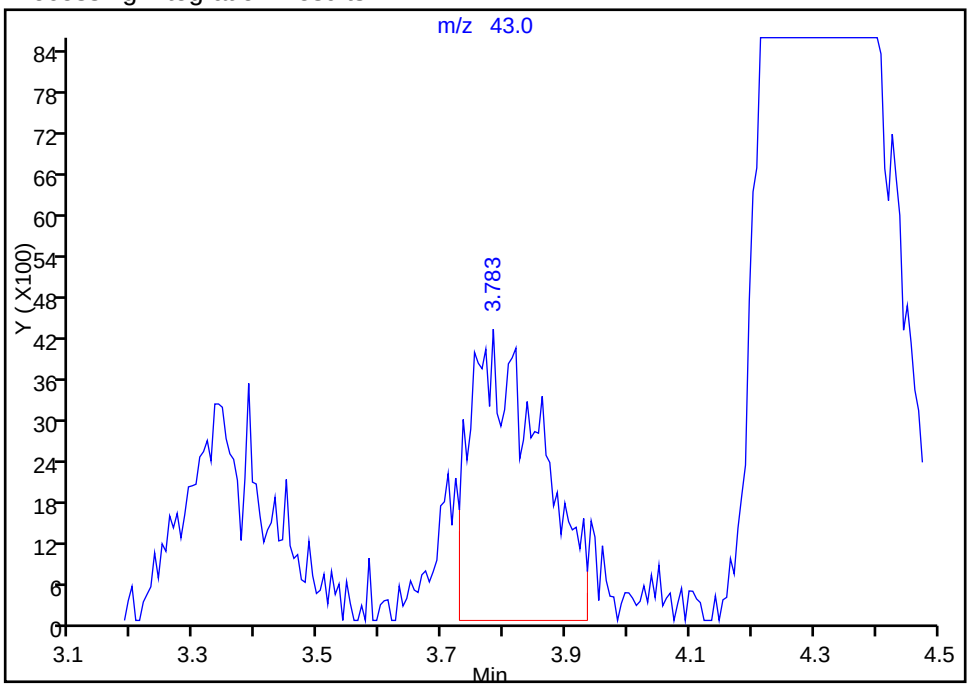
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011307.D				
Injection Date:	13-Jan-2015 12:26:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

22 Acetone, CAS: 67-64-1

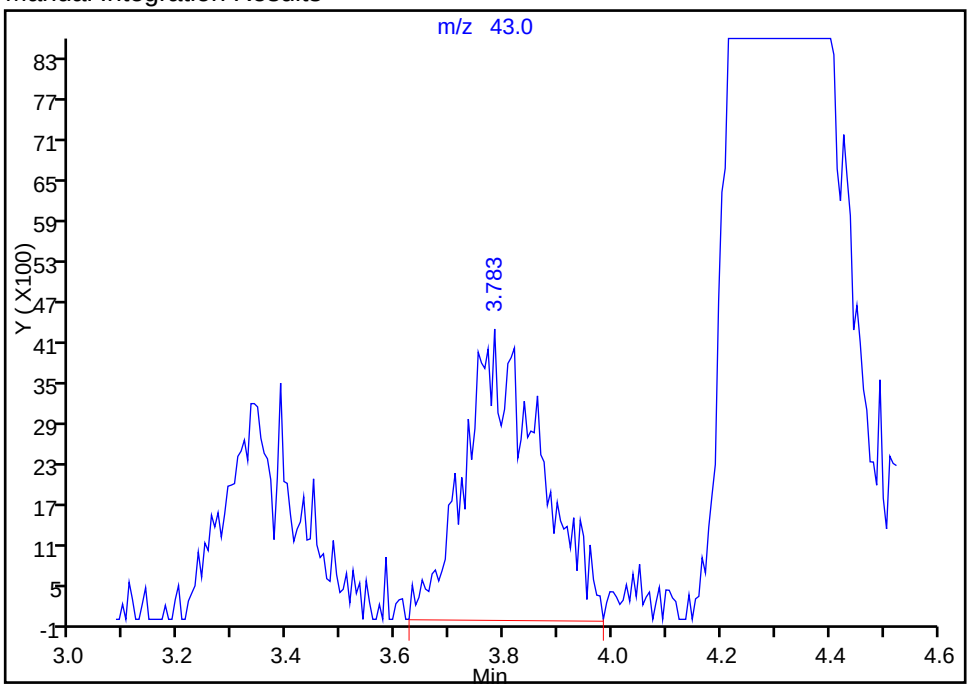
Processing Integration Results

RT: 3.78
Area: 33434
Amount: 216.9952
Amount Units: ng



Manual Integration Results

RT: 3.78
Area: 41277
Amount: 247.8454
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:19:07
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

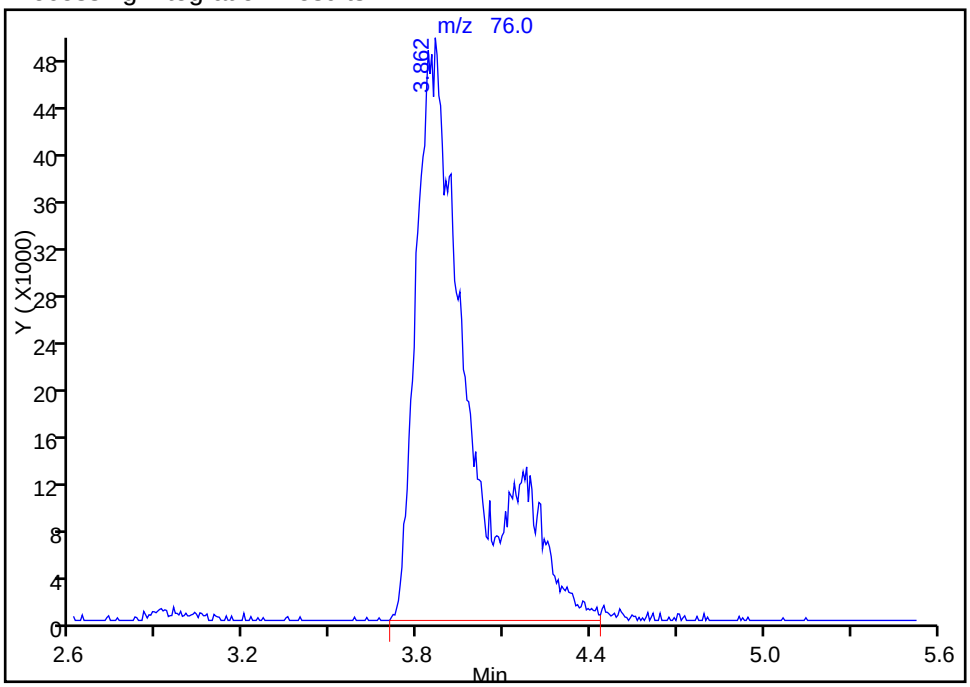
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011307.D
Injection Date: 13-Jan-2015 12:26:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

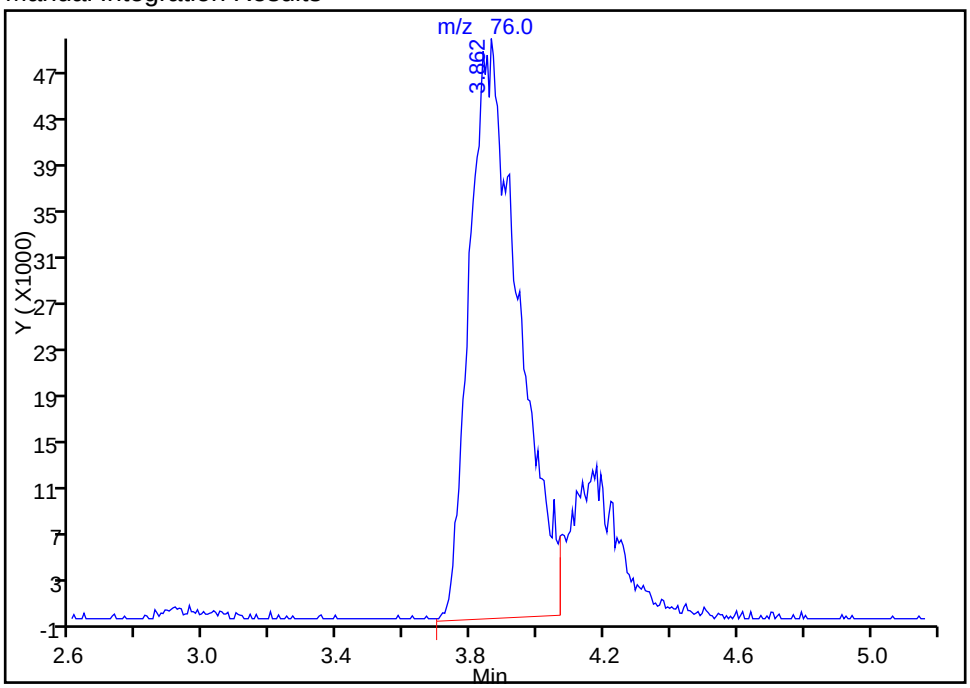
Processing Integration Results

RT: 3.86
Area: 630872
Amount: 262.0968
Amount Units: ng



Manual Integration Results

RT: 3.86
Area: 504245
Amount: 229.7503
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:19:07
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

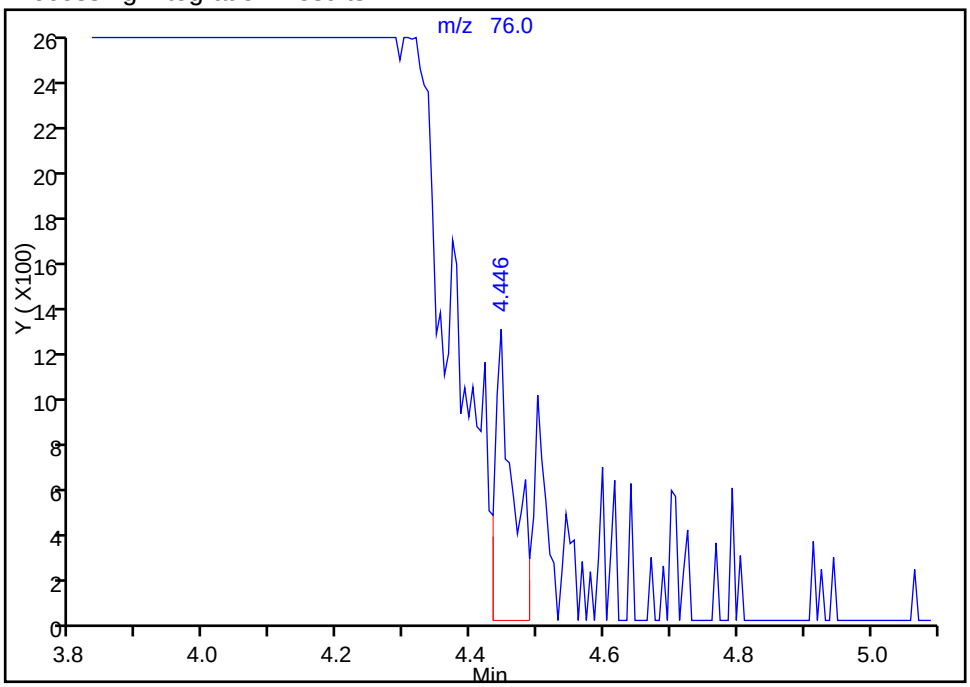
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011307.D
Injection Date: 13-Jan-2015 12:26:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

26 3-Chloro-1-propene, CAS: 107-05-1

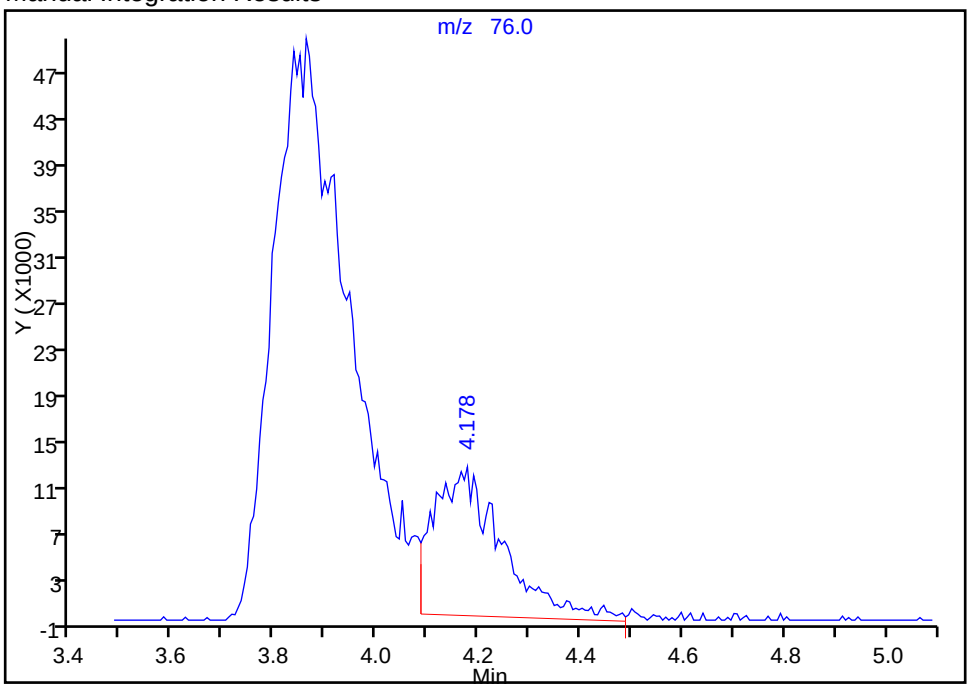
Processing Integration Results

RT: 4.45
Area: 2315
Amount: 6.714358
Amount Units: ng



Manual Integration Results

RT: 4.18
Area: 117413
Amount: 250.9040
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:19:07
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

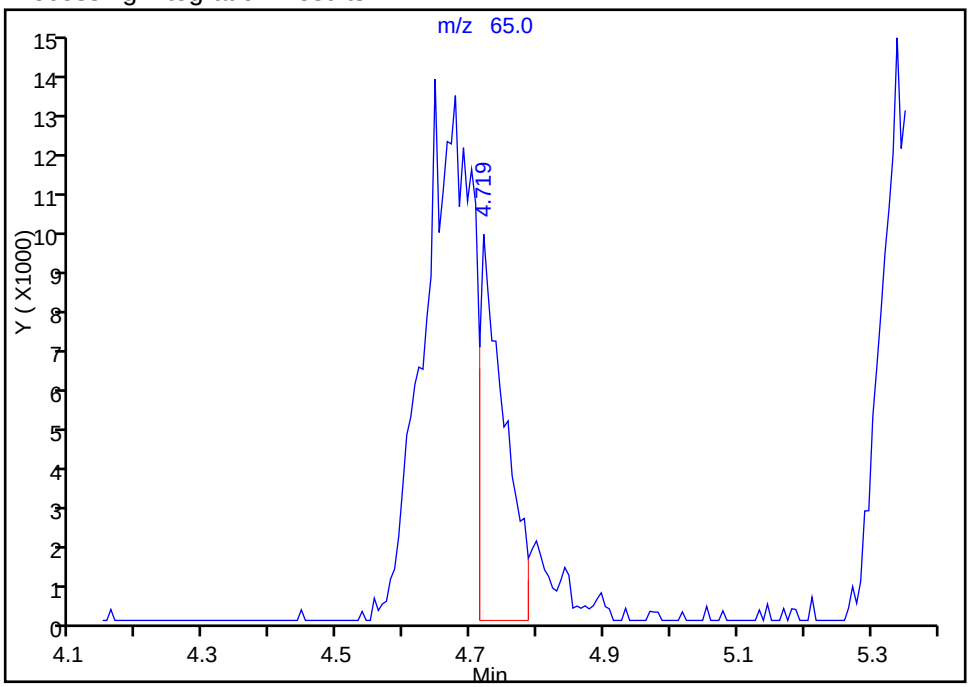
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011307.D
Injection Date: 13-Jan-2015 12:26:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

* 1 TBA-d9 (IS), CAS: 25725-11-5

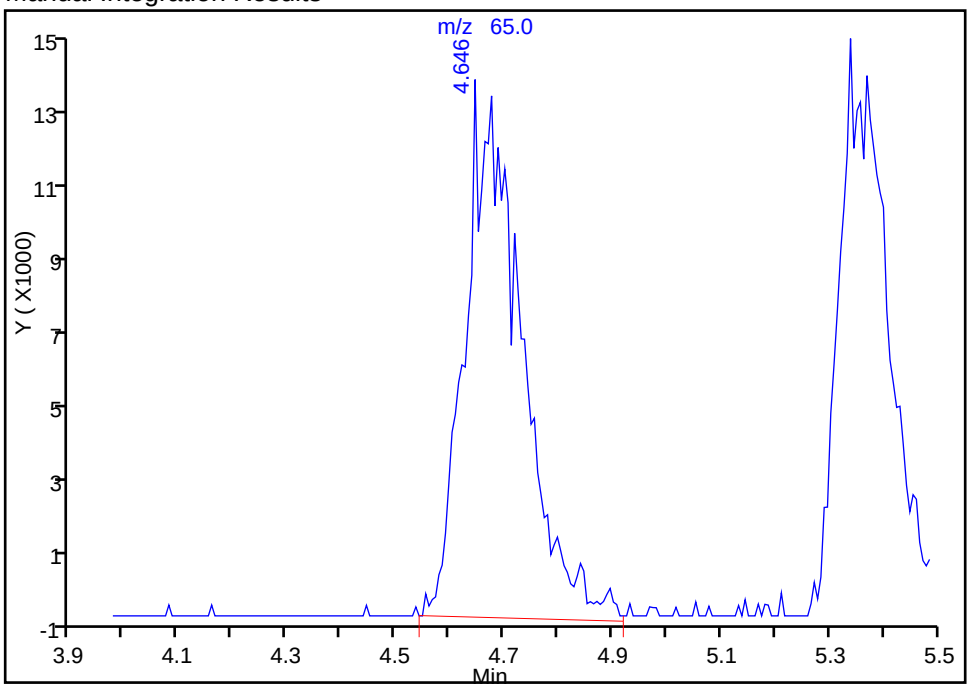
Processing Integration Results

RT: 4.72
Area: 24066
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.65
Area: 95177
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:19:07
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

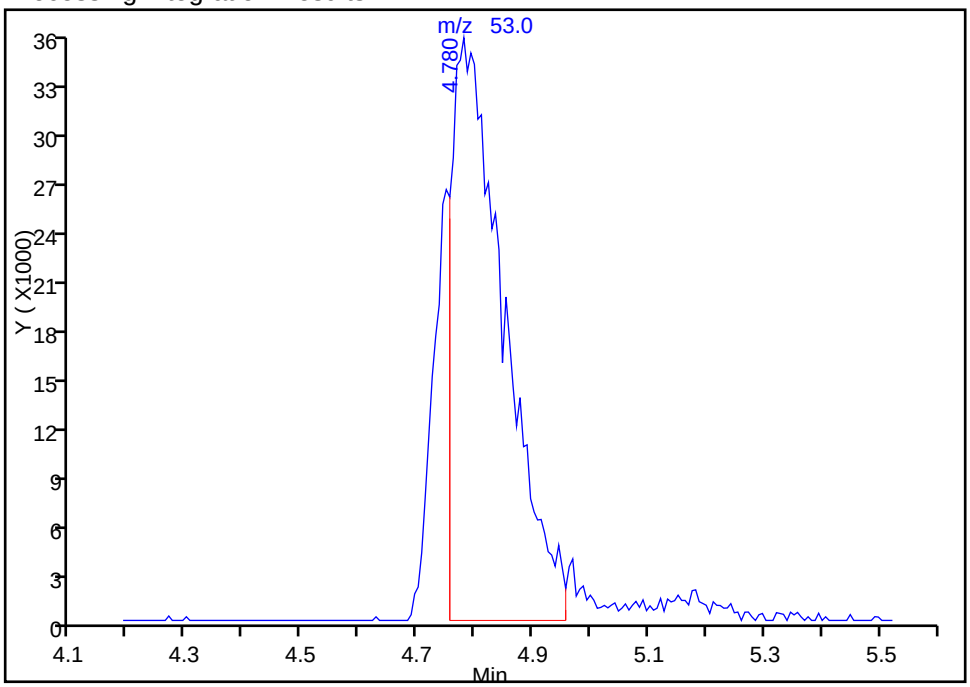
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011307.D
Injection Date: 13-Jan-2015 12:26:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

31 Acrylonitrile, CAS: 107-13-1

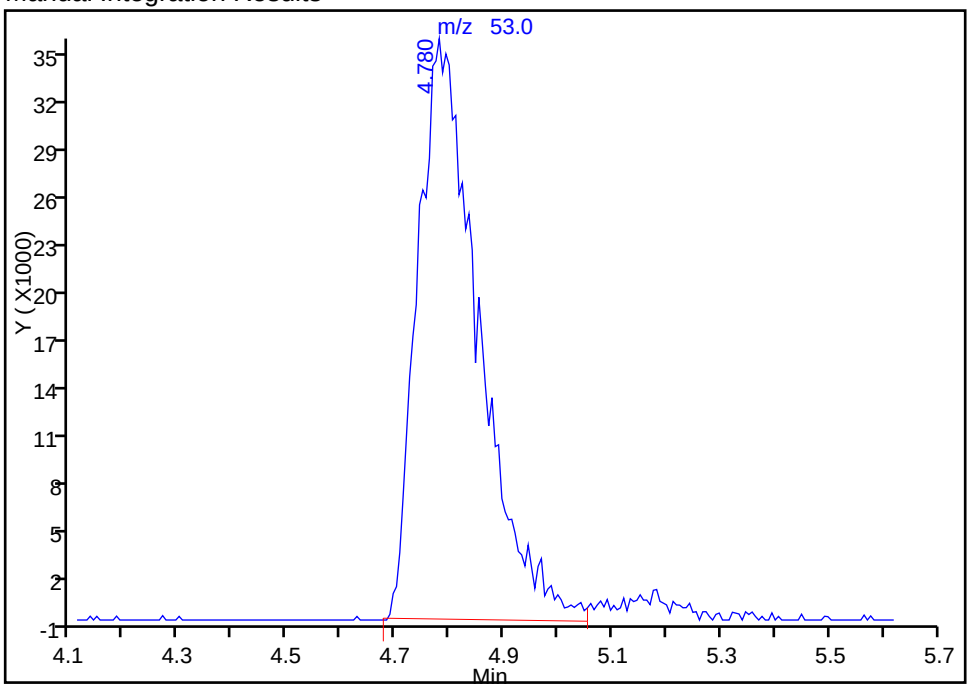
Processing Integration Results

RT: 4.78
Area: 222181
Amount: 2167.8257
Amount Units: ng



Manual Integration Results

RT: 4.78
Area: 277345
Amount: 2616.7872
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 13:19:07
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011308.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 13-Jan-2015 13:21:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0005249-008
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub1

Method: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Feb-2015 14:21:14 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: journetp Date: 13-Jan-2015 14:42:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.699	4.704	-0.005	92	104411	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.400	7.399	0.001	86	500156	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.466	10.465	0.001	84	137440	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.783	12.783	0.000	94	164941	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.682	6.675	0.007	72	382643	625.0	631.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.047	7.034	0.013	94	391906	625.0	667.9	
$ 7 Toluene-d8 (Surr)	98	9.036	9.035	0.001	93	1169088	625.0	576.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.634	11.633	0.001	88	483854	625.0	614.3	
10 Dichlorodifluoromethane	85	1.918	1.905	0.013	97	536281	625.0	799.9	
11 Chloromethane	50	2.016	2.027	-0.011	87	587086	625.0	780.6	
12 Vinyl chloride	62	2.168	2.136	0.032	96	459376	625.0	755.7	
13 Butadiene	39	2.192	2.173	0.019	97	482008	625.0	712.4	
14 Bromomethane	94	2.502	2.508	-0.006	95	318660	625.0	672.9	
15 Chloroethane	64	2.624	2.623	0.001	78	325036	625.0	657.9	
16 Trichlorofluoromethane	101	2.861	2.891	-0.030	84	838531	625.0	642.7	
17 Dichlorofluoromethane	67	2.886	2.903	-0.017	95	857564	625.0	655.1	
18 Ethyl ether	59	3.318	3.353	-0.035	89	261440	625.0	671.7	
19 Acrolein	56	3.512	3.505	0.007	34	58538	1125.0	1176.6	M
20 1,1-Dichloroethene	96	3.530	3.548	-0.018	87	431803	625.0	639.2	
21 1,1,2-Trichloro-1,2,2-trif	101	3.695	3.657	0.038	93	497550	625.0	620.4	
22 Acetone	43	3.804	3.773	0.031	30	102763	625.0	656.8	
23 Iodomethane	142	3.768	3.773	-0.005	99	801889	625.0	624.3	
24 Carbon disulfide	76	3.847	3.828	0.019	99	1259329	625.0	587.5	M
26 3-Chloro-1-propene	76	4.157	4.162	-0.005	79	312681	625.0	684.1	M
28 Methyl acetate	43	4.291	4.278	0.013	97	814817	3125.0	3407.8	
29 Methylene Chloride	84	4.364	4.375	-0.011	96	405566	625.0	601.2	
30 trans-1,2-Dichloroethene	96	4.747	4.746	0.001	97	464256	625.0	643.5	
31 Acrylonitrile	53	4.796	4.777	0.019	99	669394	6250.0	6466.5	
32 2-Methyl-2-propanol	59	4.832	4.831	0.001	44	162082	6250.0	6958.2	
33 Methyl tert-butyl ether	73	4.845	4.850	-0.005	97	936520	625.0	641.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Hexane	57	5.161	5.160	0.001	93	556126	625.0	674.6	
35 Vinyl acetate	43	5.167	5.166	0.001	65	368692	625.0	653.8	
36 1,1-Dichloroethane	63	5.362	5.349	0.013	97	748140	625.0	685.2	
41 cis-1,2-Dichloroethene	96	6.104	6.091	0.013	85	479585	625.0	662.2	
42 2,2-Dichloropropane	77	6.086	6.097	-0.011	80	691992	625.0	650.4	
43 2-Butanone (MEK)	43	6.183	6.170	0.013	98	107765	625.0	728.5	
46 Chlorobromomethane	128	6.384	6.395	-0.011	84	249482	625.0	729.1	
48 Tetrahydrofuran	42	6.469	6.450	0.019	50	101838	1250.0	1434.9	
49 Chloroform	83	6.487	6.498	-0.011	94	749319	625.0	662.7	
50 1,1,1-Trichloroethane	97	6.688	6.681	0.007	98	713152	625.0	611.3	
51 Isobutyl alcohol	41	6.730	6.723	0.007	50	417229	15625	15795	
52 Cyclohexane	56	6.736	6.729	0.007	94	618913	625.0	637.9	
53 Carbon tetrachloride	117	6.870	6.857	0.013	95	715131	625.0	631.2	
54 1,1-Dichloropropene	75	6.864	6.863	0.001	86	478406	625.0	690.6	
55 Benzene	78	7.095	7.088	0.007	97	1373837	625.0	626.3	
56 1,2-Dichloroethane	62	7.126	7.131	-0.005	97	408504	625.0	620.1	
59 n-Heptane	43	7.412	7.405	0.007	87	473926	625.0	649.0	
60 Trichloroethene	130	7.789	7.788	0.001	95	485513	625.0	661.2	
63 Methylcyclohexane	83	7.990	7.983	0.007	90	721817	625.0	634.5	
64 1,2-Dichloropropane	63	8.026	8.025	0.001	90	287196	625.0	657.3	
65 Dibromomethane	93	8.148	8.153	-0.005	95	212100	625.0	673.4	
67 1,4-Dioxane	88	8.190	8.177	0.013	52	30057	12500	13134	
68 Dichlorobromomethane	83	8.318	8.311	0.007	96	526019	625.0	678.9	
71 cis-1,3-Dichloropropene	75	8.768	8.767	0.001	91	550899	625.0	714.6	
72 4-Methyl-2-pentanone (MIBK	43	8.939	8.932	0.007	97	232690	625.0	733.7	
73 Toluene	91	9.103	9.102	0.001	98	1315779	625.0	574.2	
74 trans-1,3-Dichloropropene	75	9.322	9.327	-0.005	95	434793	625.0	675.6	
75 Ethyl methacrylate	69	9.419	9.418	0.001	87	297317	625.0	662.9	
76 1,1,2-Trichloroethane	97	9.511	9.510	0.001	91	256756	625.0	673.9	
77 Tetrachloroethene	164	9.644	9.650	-0.006	91	338463	625.0	619.3	
78 1,3-Dichloropropane	76	9.675	9.668	0.007	93	362657	625.0	610.1	
79 2-Hexanone	43	9.766	9.765	0.001	97	147298	625.0	624.5	
81 Chlorodibromomethane	129	9.900	9.893	0.007	89	416027	625.0	662.8	
82 Ethylene Dibromide	107	10.009	10.015	-0.006	98	274538	625.0	676.2	
83 Chlorobenzene	112	10.496	10.495	0.001	94	1015948	625.0	618.7	
84 1,1,1,2-Tetrachloroethane	131	10.575	10.574	0.001	94	424679	625.0	621.5	
85 Ethylbenzene	106	10.606	10.605	0.001	98	511345	625.0	572.3	
86 m-Xylene & p-Xylene	106	10.721	10.720	0.001	97	675436	625.0	588.0	
88 o-Xylene	106	11.117	11.116	0.001	93	688377	625.0	593.9	
89 Styrene	104	11.129	11.128	0.001	93	981043	625.0	564.3	
90 Bromoform	173	11.311	11.310	0.001	93	230135	625.0	717.3	
91 Isopropylbenzene	105	11.482	11.481	0.001	96	1750317	625.0	530.1	
93 1,1,2,2-Tetrachloroethane	83	11.774	11.773	0.001	97	253757	625.0	662.7	
94 Bromobenzene	156	11.786	11.785	0.001	90	434362	625.0	665.0	
95 1,2,3-Trichloropropane	110	11.822	11.821	0.001	88	80600	625.0	635.2	
96 trans-1,4-Dichloro-2-buten	53	11.834	11.827	0.007	76	62445	625.0	685.3	
97 N-Propylbenzene	120	11.889	11.888	0.001	96	550260	625.0	634.6	
98 2-Chlorotoluene	126	11.980	11.980	0.000	96	488317	625.0	650.7	
99 1,3,5-Trimethylbenzene	105	12.066	12.059	0.007	96	1405192	625.0	579.8	
100 4-Chlorotoluene	126	12.090	12.083	0.007	96	449399	625.0	618.7	
101 tert-Butylbenzene	119	12.388	12.387	0.001	92	1429341	625.0	619.2	
103 1,2,4-Trimethylbenzene	105	12.437	12.436	0.001	96	1402953	625.0	594.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
104 sec-Butylbenzene	105	12.613	12.606	0.007	95	1845407	625.0	597.8	
105 1,3-Dichlorobenzene	146	12.723	12.722	0.001	96	794168	625.0	648.5	
106 4-Isopropyltoluene	119	12.753	12.752	0.001	95	1503159	625.0	581.5	
107 1,4-Dichlorobenzene	146	12.814	12.807	0.007	92	757384	625.0	651.5	
110 n-Butylbenzene	91	13.167	13.160	0.007	95	1303805	625.0	611.5	
111 1,2-Dichlorobenzene	146	13.185	13.190	-0.005	97	635869	625.0	664.4	
112 1,2-Dibromo-3-Chloropropan	157	13.970	13.975	-0.005	83	49146	625.0	661.1	
114 1,2,4-Trichlorobenzene	180	14.797	14.802	-0.005	94	281166	625.0	1032.8	
115 Hexachlorobutadiene	225	14.973	14.973	0.000	88	144199	625.0	907.5	
116 Naphthalene	128	15.053	15.058	-0.005	97	547618	625.0	1122.6	
117 1,2,3-Trichlorobenzene	180	15.302	15.307	-0.005	92	198639	625.0	656.3	
S 130 1,2-Dichloroethene, Total	96				0		1250.0	1305.7	
S 129 Xylenes, Total	106				0		1250.0	1181.9	
S 131 1,3-Dichloropropene, Total	1				0		1250.0	1390.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00027	Amount Added:	10.00	Units: uL
voaWAcropri R_00006	Amount Added:	45.00	Units: uL
voaWVApri Res_00001	Amount Added:	25.00	Units: uL
VOA8260VOAPRI_00095	Amount Added:	25.00	Units: uL
VOA8260SURR_00017	Amount Added:	25.00	Units: uL

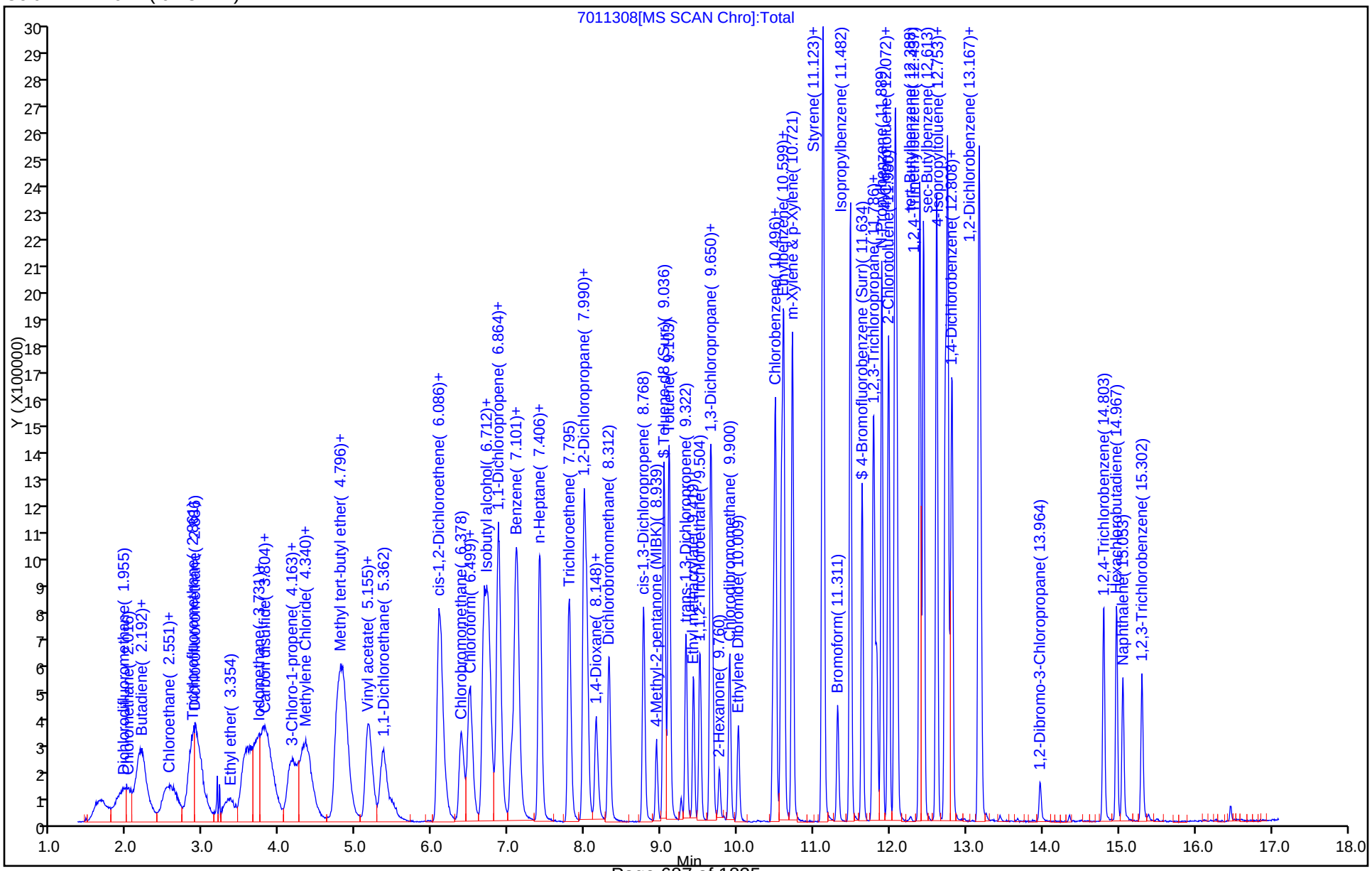
Report Date: 17-Feb-2015 14:21:15 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011308.D

Injection Date:	13-Jan-2015 13:21:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

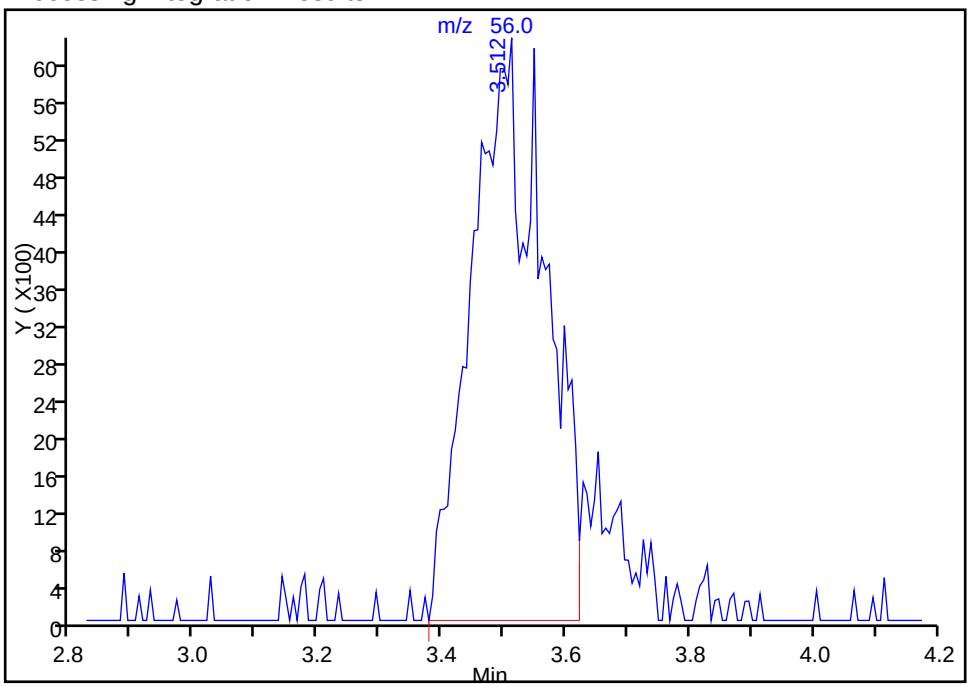
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011308.D				
Injection Date:	13-Jan-2015 13:21:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

19 Acrolein, CAS: 107-02-8

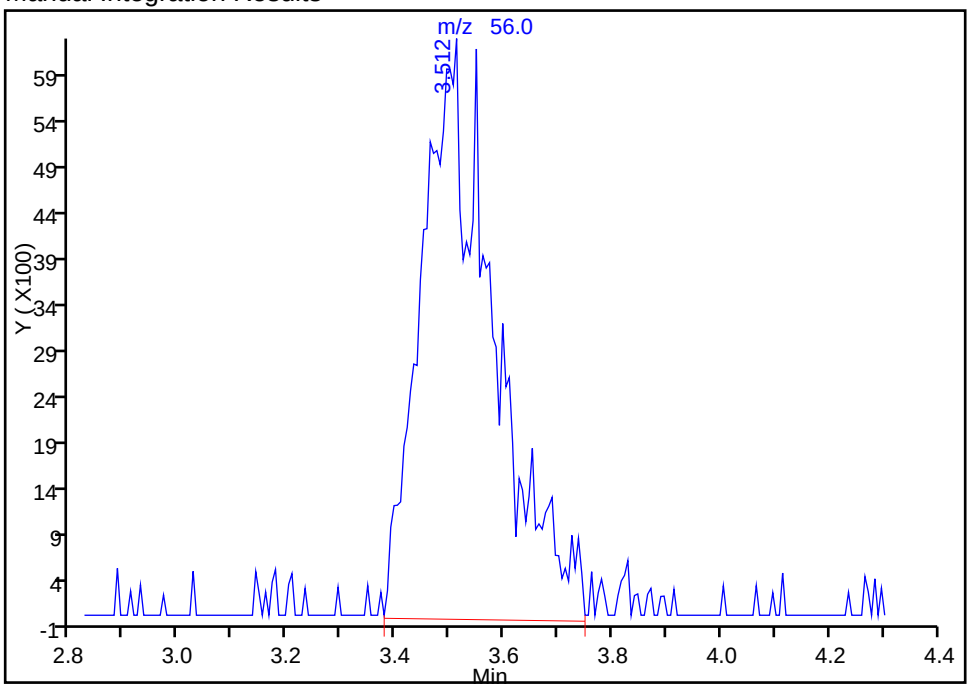
Processing Integration Results

RT: 3.51
Area: 50620
Amount: 1049.9651
Amount Units: ng



Manual Integration Results

RT: 3.51
Area: 58538
Amount: 1176.6248
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 14:42:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

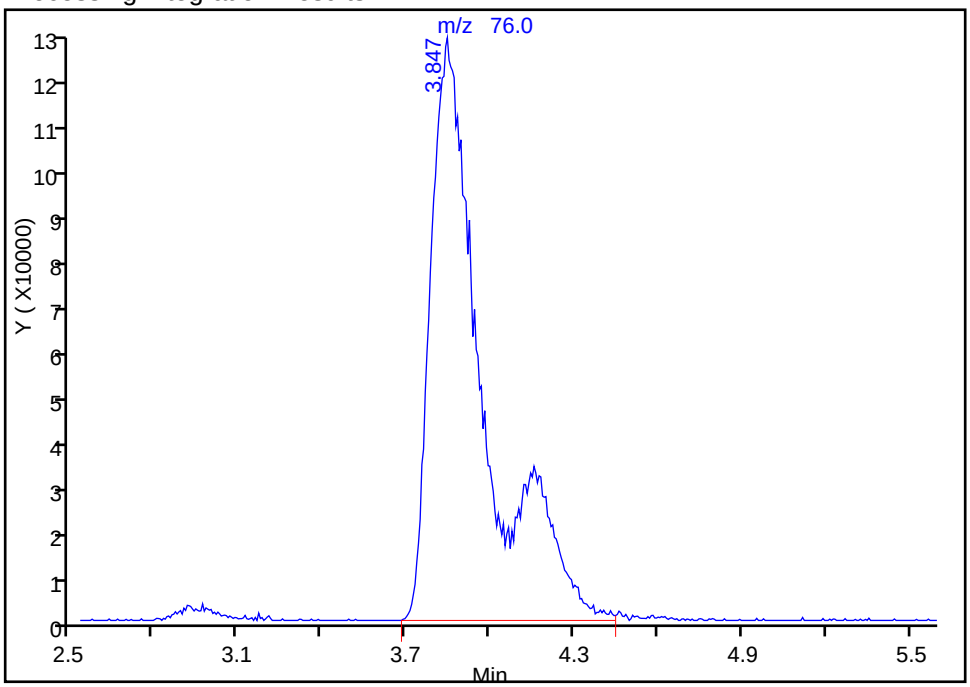
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011308.D				
Injection Date:	13-Jan-2015 13:21:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

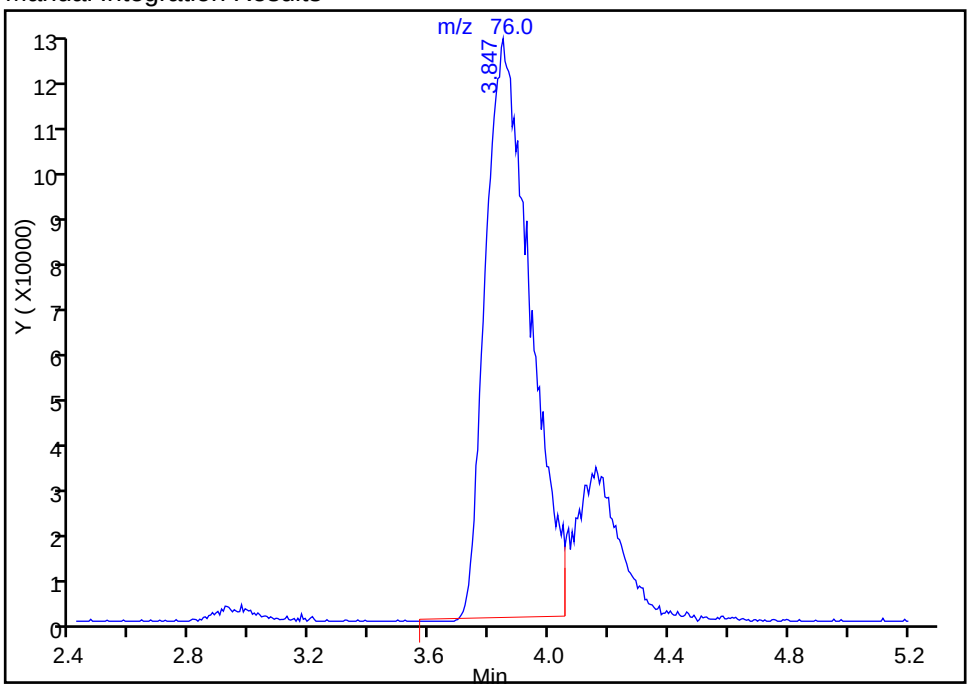
Processing Integration Results

RT: 3.85
Area: 1611516
Amount: 699.7877
Amount Units: ng



Manual Integration Results

RT: 3.85
Area: 1259329
Amount: 587.4797
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 14:42:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

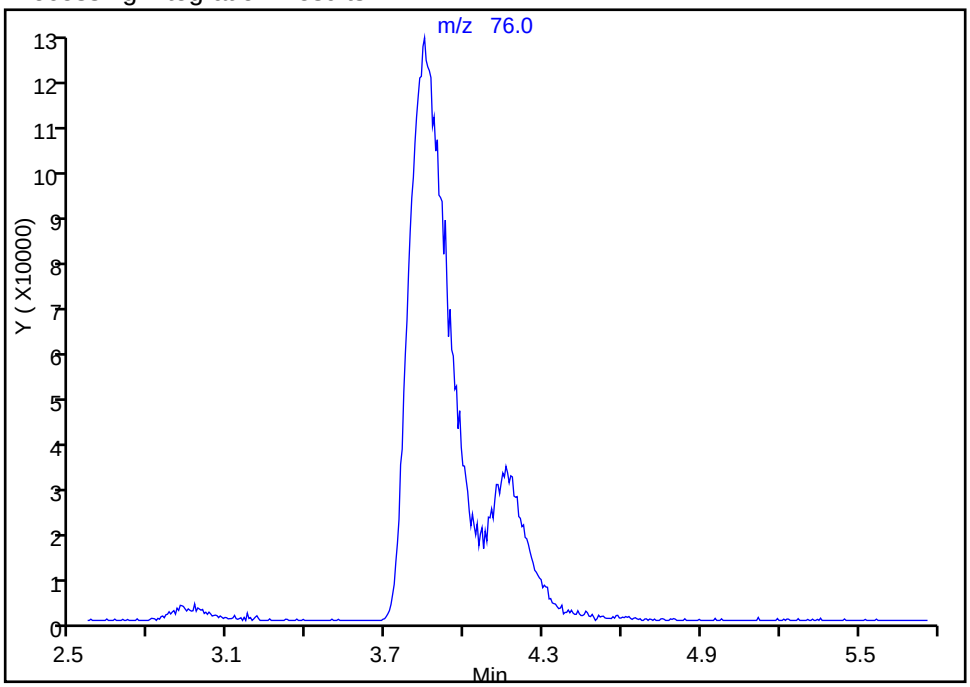
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011308.D				
Injection Date:	13-Jan-2015 13:21:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

26 3-Chloro-1-propene, CAS: 107-05-1

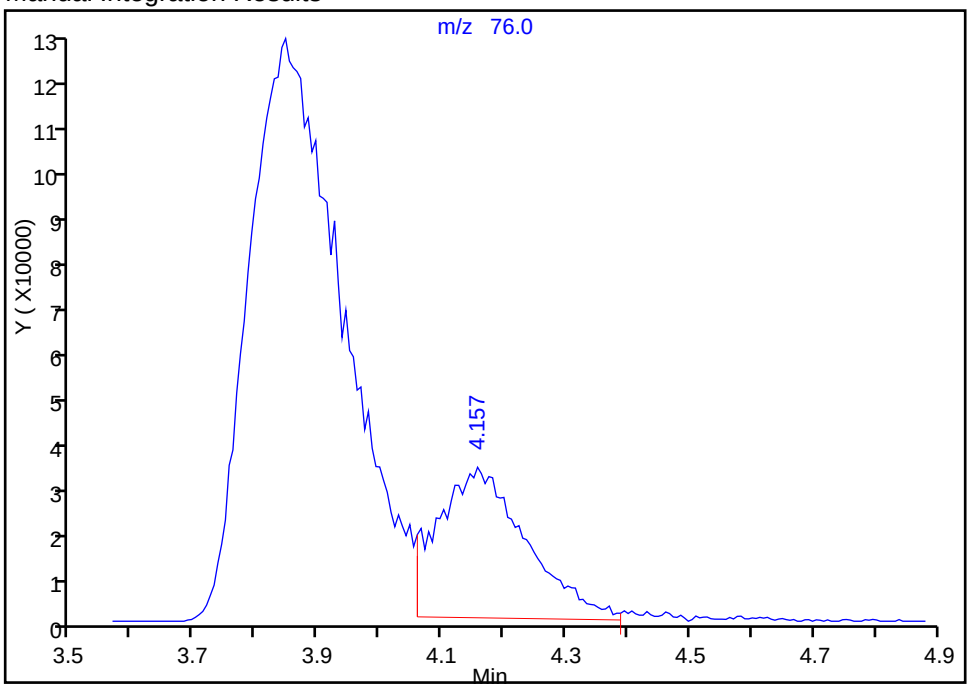
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 312681
Amount: 684.1195
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 14:42:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

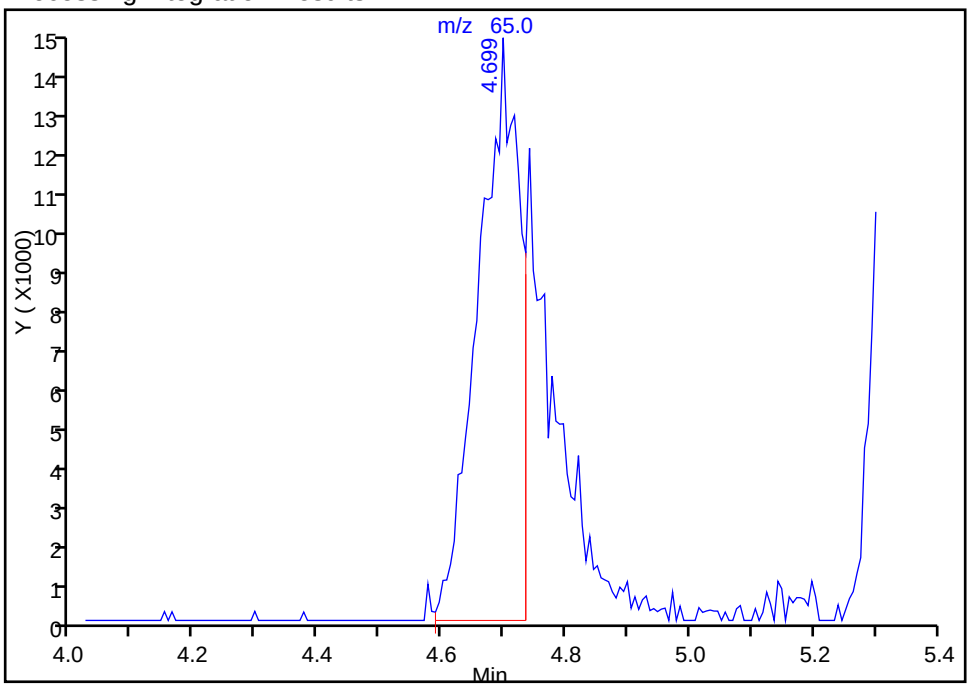
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011308.D				
Injection Date:	13-Jan-2015 13:21:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

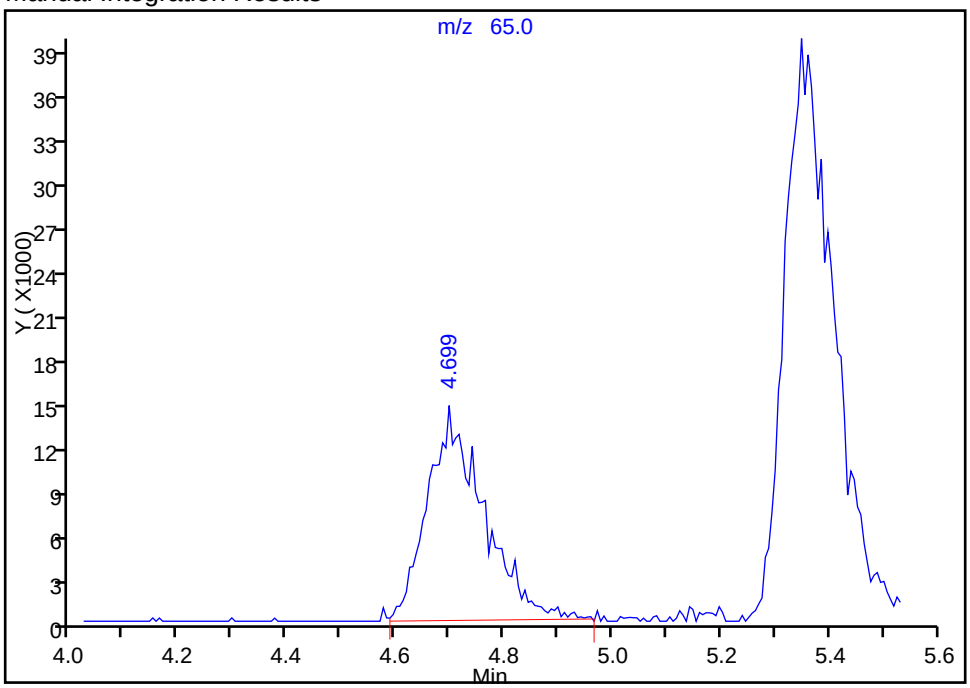
Processing Integration Results

RT: 4.70
Area: 68142
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.70
Area: 104411
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 14:42:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 13-Jan-2015 14:16:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 180-0005249-009
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub1

Method: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Feb-2015 14:21:16 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: journetp Date: 13-Jan-2015 15:07:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.818	4.704	0.114	1	81327	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.397	7.399	-0.002	65	493431	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.464	10.465	-0.001	83	144111	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.794	12.783	0.011	93	167121	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.674	6.675	-0.001	86	649216	1250.0	1085.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.032	7.034	-0.002	93	691578	1250.0	1194.7	
$ 7 Toluene-d8 (Surr)	98	9.034	9.035	-0.001	93	1940796	1250.0	912.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.632	11.633	-0.001	91	807041	1250.0	977.2	
10 Dichlorodifluoromethane	85	1.898	1.905	-0.007	96	988288	1250.0	1494.2	
11 Chloromethane	50	2.020	2.027	-0.007	96	1055519	1250.0	1422.6	
12 Vinyl chloride	62	2.154	2.136	0.018	95	812505	1250.0	1354.9	
13 Butadiene	39	2.190	2.173	0.017	96	827036	1250.0	1239.1	
14 Bromomethane	94	2.500	2.508	-0.008	96	573423	1250.0	1232.3	
15 Chloroethane	64	2.604	2.623	-0.019	98	586857	1250.0	1243.0	
16 Trichlorofluoromethane	101	2.859	2.891	-0.032	91	1496164	1250.0	1162.4	
17 Dichlorofluoromethane	67	2.871	2.903	-0.032	95	1522063	1250.0	1178.5	
18 Ethyl ether	59	3.315	3.353	-0.038	84	478023	1250.0	1244.8	
19 Acrolein	56	3.510	3.505	0.005	29	56680	1250.0	1154.8	M
20 1,1-Dichloroethene	96	3.510	3.548	-0.038	97	725576	1250.0	1088.7	
21 1,1,2-Trichloro-1,2,2-trif	101	3.632	3.657	-0.025	91	850597	1250.0	1075.0	
22 Acetone	43	3.833	3.773	0.060	26	169189	1250.0	1240.9	
23 Iodomethane	142	3.735	3.773	-0.038	100	1346729	1250.0	1062.8	
24 Carbon disulfide	76	3.802	3.828	-0.026	100	2133918	1250.0	1009.0	M
26 3-Chloro-1-propene	76	4.118	4.162	-0.044	68	456622	1250.0	1012.7	M
28 Methyl acetate	43	4.289	4.278	0.011	98	1473342	6250.0	6246.0	
29 Methylene Chloride	84	4.344	4.375	-0.031	92	699605	1250.0	1051.2	
30 trans-1,2-Dichloroethene	96	4.745	4.746	-0.001	97	821343	1250.0	1153.9	
31 Acrylonitrile	53	4.806	4.777	0.029	98	1177152	12500	11527	
32 2-Methyl-2-propanol	59	4.915	4.831	0.084	91	278590	12500	15355	
33 Methyl tert-butyl ether	73	4.867	4.850	0.017	97	1617342	1250.0	1122.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Hexane	57	5.134	5.160	-0.026	93	983353	1250.0	1209.2	
35 Vinyl acetate	43	5.141	5.166	-0.026	64	670161	1250.0	1243.5	
36 1,1-Dichloroethane	63	5.347	5.349	-0.002	96	1264426	1250.0	1173.8	
41 cis-1,2-Dichloroethene	96	6.090	6.091	-0.001	80	804734	1250.0	1126.3	
42 2,2-Dichloropropane	77	6.083	6.097	-0.014	91	1122545	1250.0	1069.5	
43 2-Butanone (MEK)	43	6.193	6.170	0.023	100	205489	1250.0	1408.1	
46 Chlorobromomethane	128	6.375	6.395	-0.020	86	438790	1250.0	1299.7	
48 Tetrahydrofuran	42	6.467	6.450	0.017	87	175530	2500.0	2506.9	
49 Chloroform	83	6.485	6.498	-0.013	93	1273786	1250.0	1141.9	
50 1,1,1-Trichloroethane	97	6.674	6.681	-0.007	97	1187240	1250.0	1031.5	
51 Isobutyl alcohol	41	6.722	6.723	-0.001	49	713286	31250	27370	
52 Cyclohexane	56	6.728	6.729	-0.001	91	1026660	1250.0	1072.5	
53 Carbon tetrachloride	117	6.862	6.857	0.005	95	1200925	1250.0	1074.5	
54 1,1-Dichloropropene	75	6.862	6.863	-0.001	87	826930	1250.0	1216.6	
55 Benzene	78	7.093	7.088	0.005	98	2332472	1250.0	1077.8	
56 1,2-Dichloroethane	62	7.124	7.131	-0.007	97	735764	1250.0	1132.1	
59 n-Heptane	43	7.404	7.405	-0.001	86	844195	1250.0	1171.8	
60 Trichloroethene	130	7.787	7.788	-0.001	94	876234	1250.0	1209.6	
63 Methylcyclohexane	83	7.988	7.983	0.005	90	1204806	1250.0	1073.6	
64 1,2-Dichloropropane	63	8.024	8.025	-0.001	90	510395	1250.0	1184.0	
65 Dibromomethane	93	8.140	8.153	-0.013	95	378890	1250.0	1219.4	
67 1,4-Dioxane	88	8.188	8.177	0.011	87	58394	25000	24875	
68 Dichlorobromomethane	83	8.316	8.311	0.005	95	937017	1250.0	1225.8	
71 cis-1,3-Dichloropropene	75	8.766	8.767	-0.001	91	949373	1250.0	1248.3	
72 4-Methyl-2-pentanone (MIBK	43	8.937	8.932	0.005	96	399867	1250.0	1202.5	
73 Toluene	91	9.101	9.102	-0.001	96	2171184	1250.0	903.7	
74 trans-1,3-Dichloropropene	75	9.326	9.327	-0.001	96	746165	1250.0	1105.8	
75 Ethyl methacrylate	69	9.423	9.418	0.005	88	481596	1250.0	1024.0	
76 1,1,2-Trichloroethane	97	9.508	9.510	-0.002	92	431165	1250.0	1079.2	
77 Tetrachloroethene	164	9.648	9.650	-0.002	92	594782	1250.0	1038.0	
78 1,3-Dichloropropane	76	9.673	9.668	0.005	93	608979	1250.0	977.1	
79 2-Hexanone	43	9.764	9.765	-0.001	98	257903	1250.0	1029.1	
81 Chlorodibromomethane	129	9.898	9.893	0.005	88	717561	1250.0	1090.2	
82 Ethylene Dibromide	107	10.013	10.015	-0.002	98	485212	1250.0	1139.8	
83 Chlorobenzene	112	10.500	10.495	0.005	93	1683578	1250.0	977.8	
84 1,1,1,2-Tetrachloroethane	131	10.579	10.574	0.005	94	733357	1250.0	1023.6	
85 Ethylbenzene	106	10.610	10.605	0.005	97	849871	1250.0	907.2	
86 m-Xylene & p-Xylene	106	10.719	10.720	-0.001	95	1132055	1250.0	939.9	
88 o-Xylene	106	11.114	11.116	-0.002	94	1144541	1250.0	941.7	
89 Styrene	104	11.133	11.128	0.005	94	1611648	1250.0	884.2	
90 Bromoform	173	11.315	11.310	0.005	95	416969	1250.0	1239.6	
91 Isopropylbenzene	105	11.486	11.481	0.005	96	2776934	1250.0	802.0	
93 1,1,2,2-Tetrachloroethane	83	11.771	11.773	-0.002	97	426488	1250.0	1062.3	
94 Bromobenzene	156	11.790	11.785	0.005	89	750766	1250.0	1134.4	
95 1,2,3-Trichloropropane	110	11.820	11.821	-0.001	86	151013	1250.0	1174.7	
96 trans-1,4-Dichloro-2-buten	53	11.832	11.827	0.005	89	113291	1250.0	1221.7	
97 N-Propylbenzene	120	11.893	11.888	0.005	95	940062	1250.0	1070.0	
98 2-Chlorotoluene	126	11.984	11.980	0.004	95	829312	1250.0	1090.6	
99 1,3,5-Trimethylbenzene	105	12.070	12.059	0.011	97	2243041	1250.0	913.4	
100 4-Chlorotoluene	126	12.094	12.083	0.011	95	772367	1250.0	1049.4	
101 tert-Butylbenzene	119	12.392	12.387	0.005	92	2370901	1250.0	1013.7	
103 1,2,4-Trimethylbenzene	105	12.441	12.436	0.005	96	2223984	1250.0	929.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
104 sec-Butylbenzene	105	12.617	12.606	0.011	95	2958348	1250.0	945.8	
105 1,3-Dichlorobenzene	146	12.727	12.722	0.005	96	1351582	1250.0	1089.2	
106 4-Isopropyltoluene	119	12.757	12.752	0.005	94	2435436	1250.0	929.8	
107 1,4-Dichlorobenzene	146	12.818	12.807	0.011	91	1294276	1250.0	1098.8	
110 n-Butylbenzene	91	13.165	13.160	0.005	94	2092362	1250.0	968.5	
111 1,2-Dichlorobenzene	146	13.189	13.190	-0.001	96	1067196	1250.0	1100.5	
112 1,2-Dibromo-3-Chloropropan	157	13.968	13.975	-0.007	87	90970	1250.0	1241.9	
114 1,2,4-Trichlorobenzene	180	14.801	14.802	-0.001	96	578576	1250.0	2097.6	
115 Hexachlorobutadiene	225	14.971	14.973	-0.002	93	314952	1250.0	1956.2	
116 Naphthalene	128	15.050	15.058	-0.008	97	1019245	1250.0	2062.2	
117 1,2,3-Trichlorobenzene	180	15.300	15.307	-0.007	95	440303	1250.0	1245.0	
S 130 1,2-Dichloroethene, Total	96				0		2500.0	2280.3	
S 129 Xylenes, Total	106				0		2500.0	1881.6	
S 131 1,3-Dichloropropene, Total	1				0		2500.0	2354.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00027	Amount Added:	10.00	Units: uL
voaWAcropri R_00006	Amount Added:	50.00	Units: uL
voaWVApri Res_00001	Amount Added:	50.00	Units: uL
VOA8260VOAPRI_00095	Amount Added:	50.00	Units: uL
VOA8260SURR_00017	Amount Added:	50.00	Units: uL

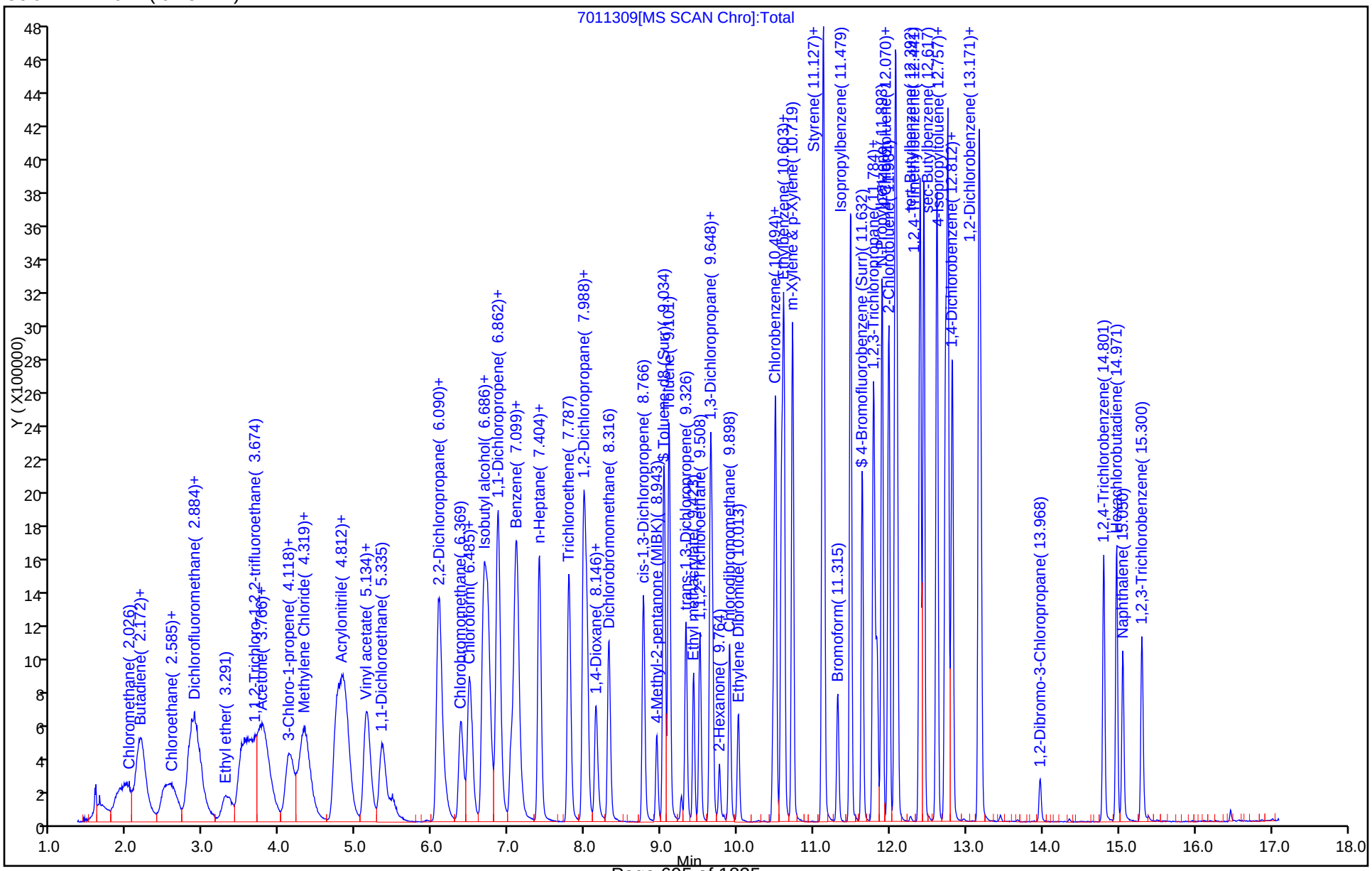
Report Date: 17-Feb-2015 14:21:17 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Injection Date:	13-Jan-2015 14:16:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

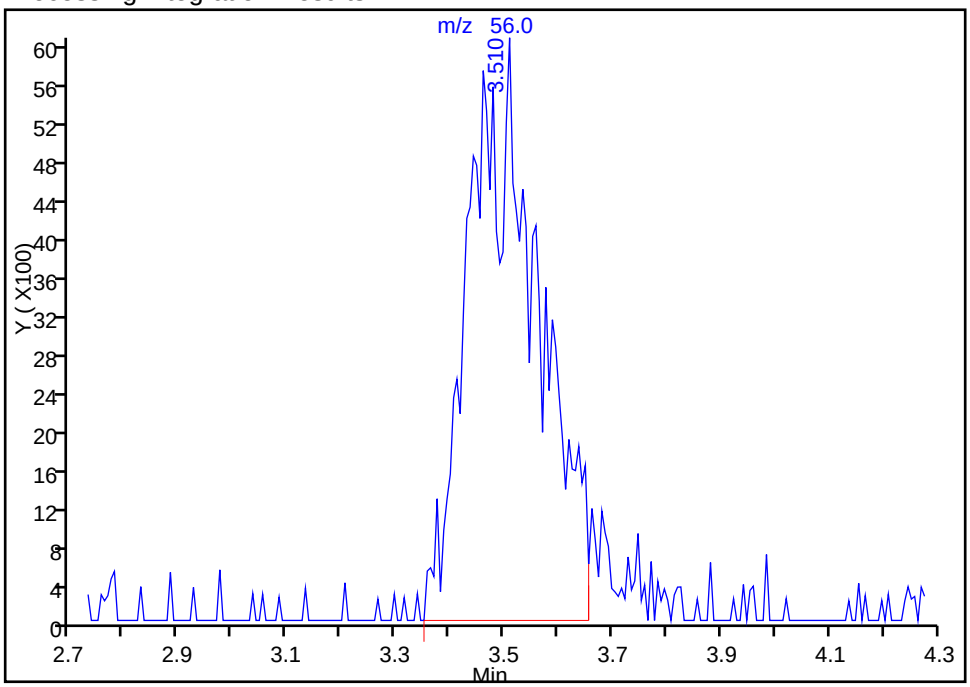
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D
Injection Date: 13-Jan-2015 14:16:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

19 Acrolein, CAS: 107-02-8

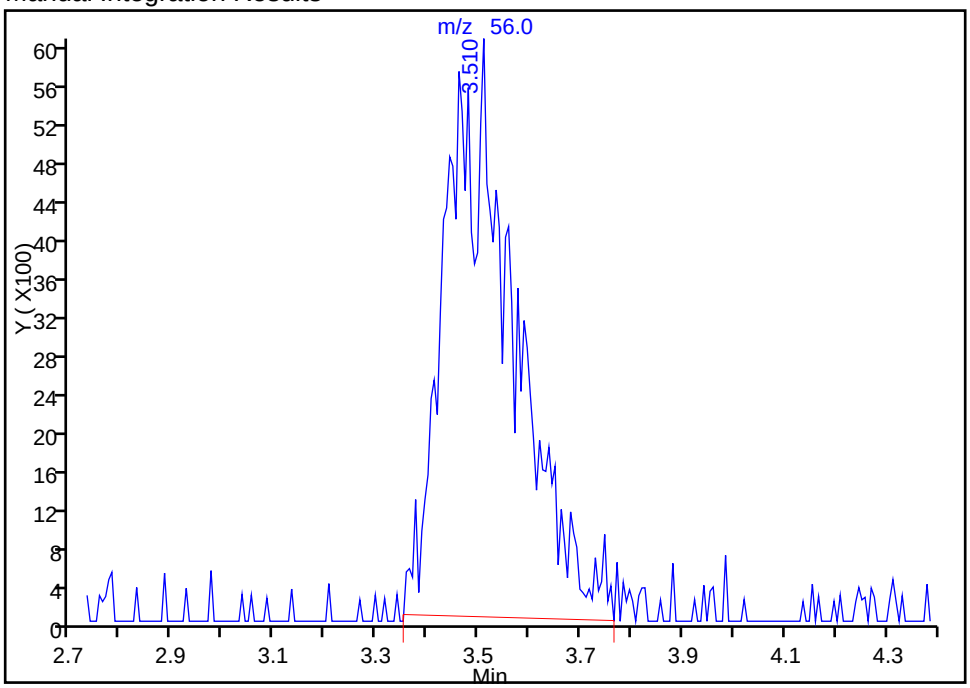
Processing Integration Results

RT: 3.51
Area: 54154
Amount: 1109.8688
Amount Units: ng



Manual Integration Results

RT: 3.51
Area: 56680
Amount: 1154.8059
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 15:07:47
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

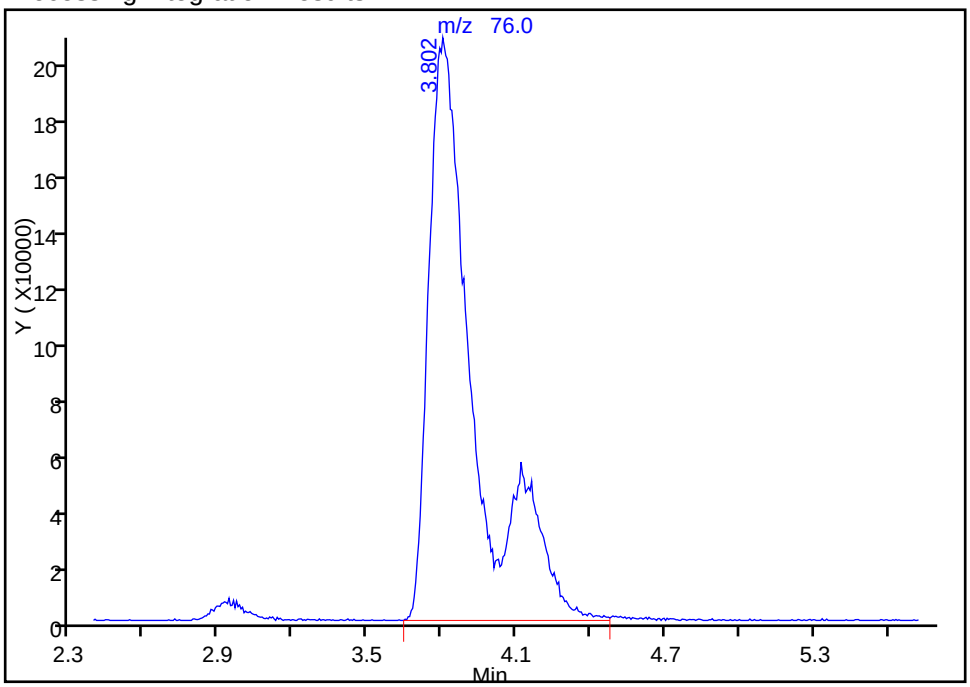
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D				
Injection Date:	13-Jan-2015 14:16:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

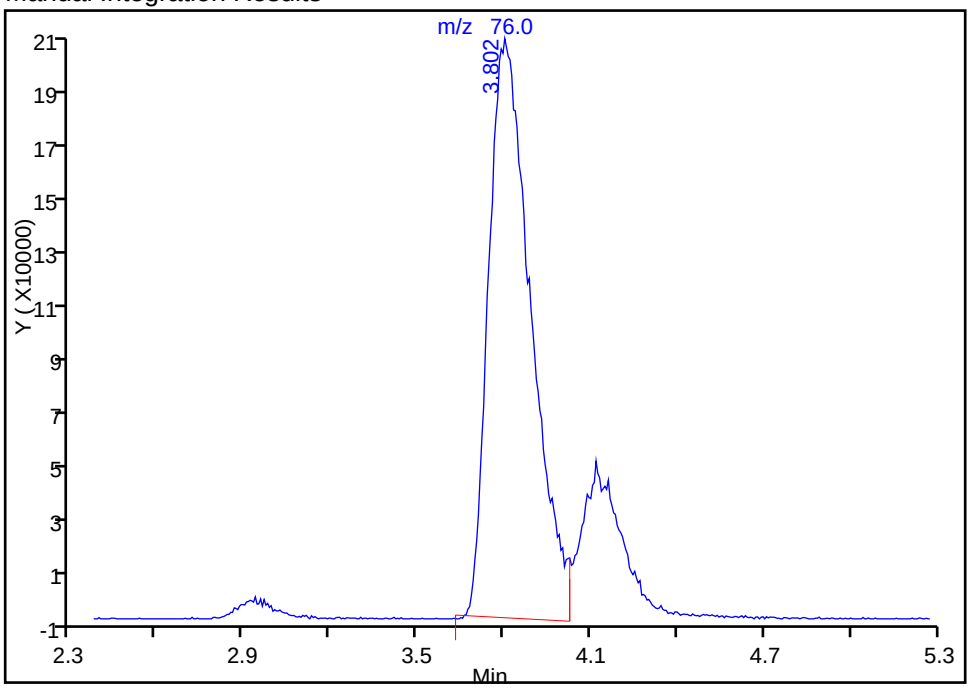
Processing Integration Results

RT: 3.80
Area: 2674357
Amount: 1228.7111
Amount Units: ng



Manual Integration Results

RT: 3.80
Area: 2133918
Amount: 1009.0447
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 15:07:47
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

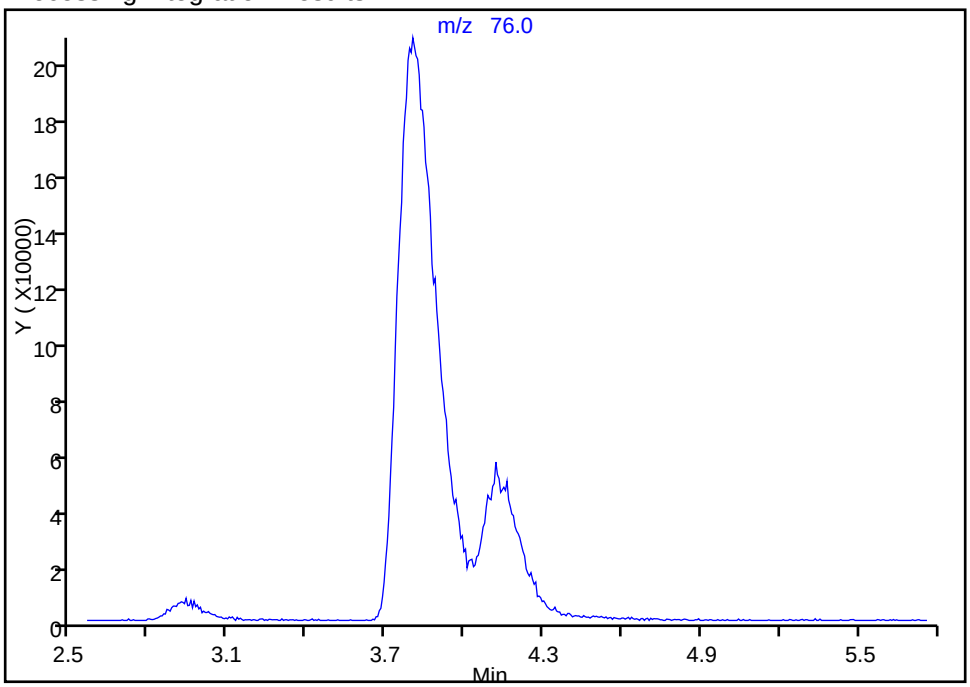
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D
Injection Date: 13-Jan-2015 14:16:30 Instrument ID: CHHP7
Lims ID: IC
Client ID:
Operator ID: 034635 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

26 3-Chloro-1-propene, CAS: 107-05-1

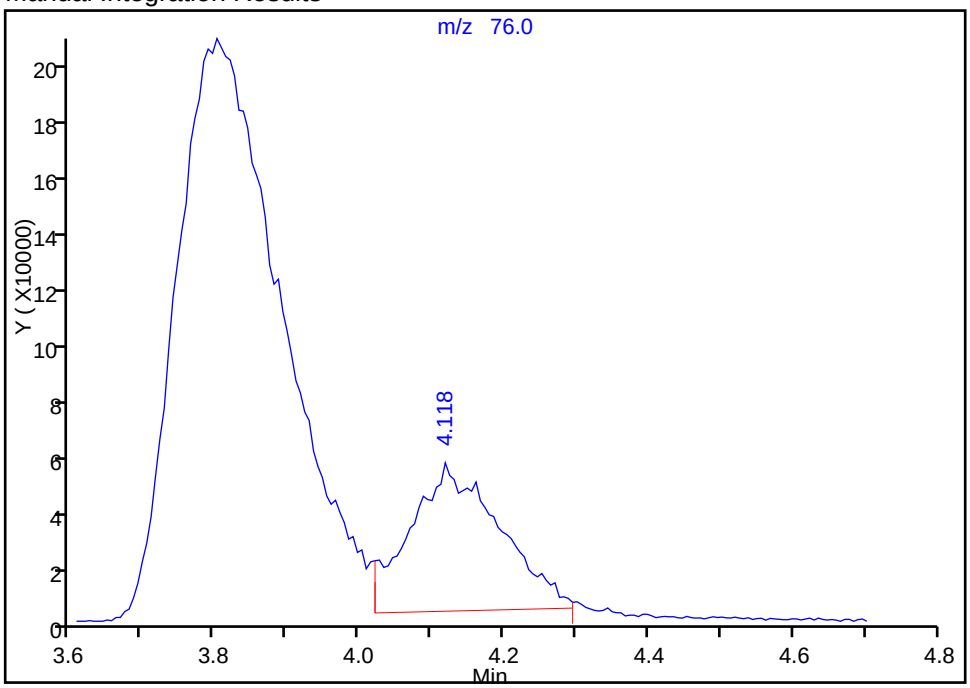
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 456622
Amount: 1012.6662
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 15:07:47
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

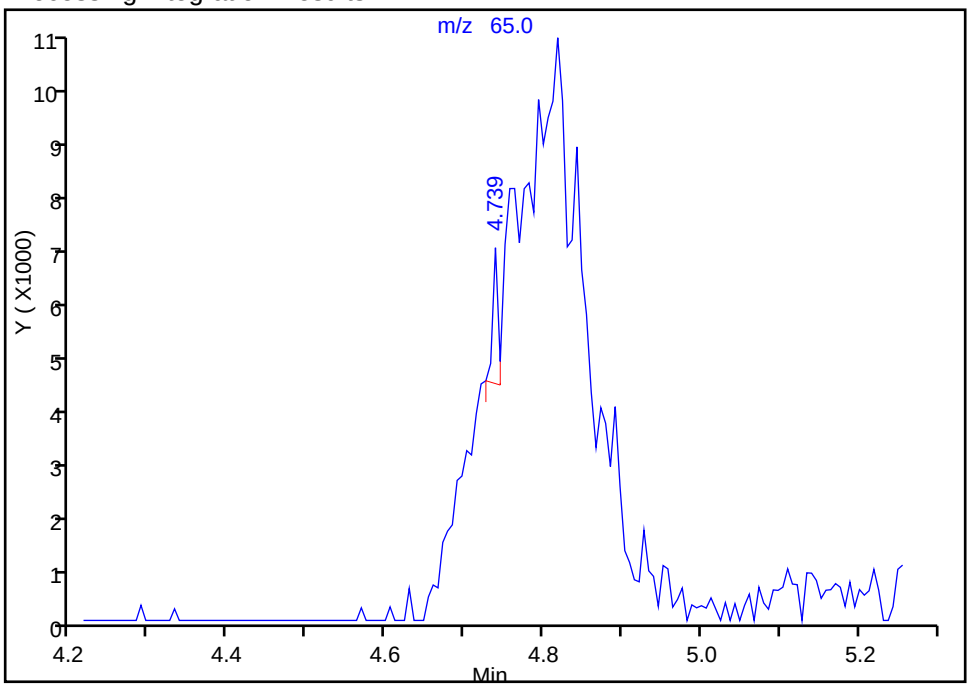
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D				
Injection Date:	13-Jan-2015 14:16:30	Instrument ID:	CHHP7		
Lims ID:	IC				
Client ID:					
Operator ID:	034635	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

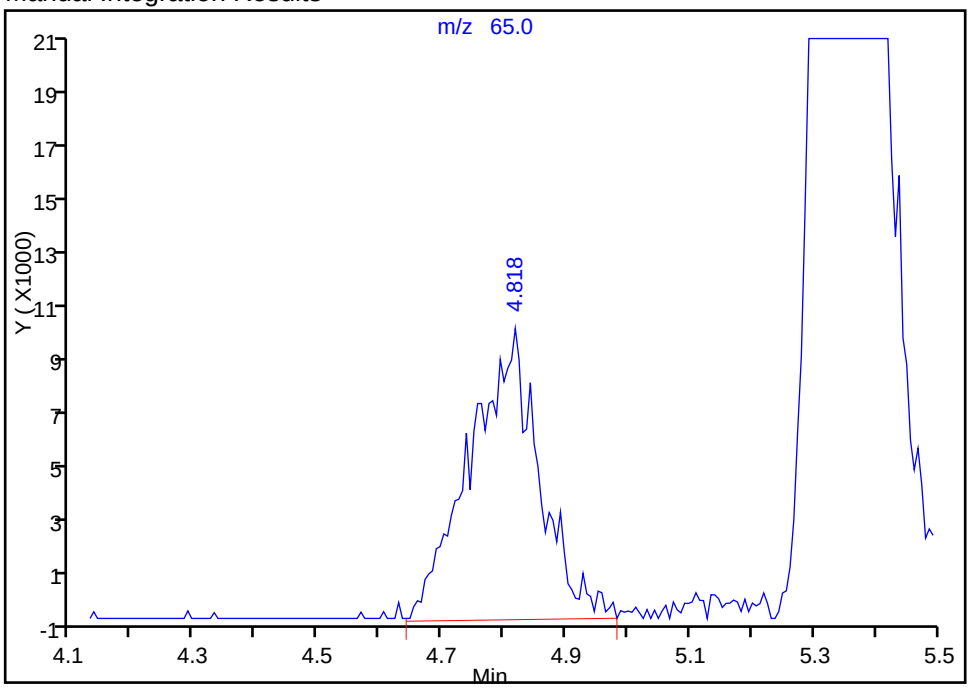
Processing Integration Results

RT: 4.74
Area: 1160
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.82
Area: 81327
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 13-Jan-2015 15:07:47
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141065/2 Calibration Date: 05/09/2015 12:04

Instrument ID: CHHP4 Calib Start Date: 04/27/2015 11:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/27/2015 13:50

Lab File ID: 4050902.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3951	0.3809		38.6	40.0	-3.6	
Chloromethane	Ave	0.5838	0.6235		42.7	40.0	6.8	
Vinyl chloride	Ave	0.4960	0.5163		41.6	40.0	4.1	
1,3-Butadiene	Ave	0.4931	0.5136		41.7	40.0	4.2	
Bromomethane	Ave	0.0667	0.0785		47.1	40.0	17.7	
Chloroethane	Ave	0.0824	0.1008		48.9	40.0	22.3	
Dichlorofluoromethane	Qua	0.2784	0.3522		59.2	40.0	48.0	
Trichlorofluoromethane	Ave	0.1943	0.2749		56.6	40.0	41.5	
Ethyl ether	Ave	0.1652	0.1750		42.4	40.0	5.9	
1,1-Dichloroethene	Ave	0.2734	0.2891		42.3	40.0	5.7	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3274	0.3353		41.0	40.0	2.4	
Acetone	Qua		0.1065		55.8	40.0	39.4	
Iodomethane	Qua		0.4050		39.3	40.0	-1.7	
Carbon disulfide	Ave	0.8298	0.8247		39.8	40.0	-0.6	
Allyl chloride	Ave	0.1992	0.1930		38.8	40.0	-3.1	
Methyl acetate	Ave	0.1784	0.2289		257	200	28.3	
Methylene Chloride	Lin2		0.3353		40.8	40.0	2.1	
tert-Butyl alcohol	Ave	1.353	1.396		413	400	3.2	
trans-1,2-Dichloroethene	Ave	0.3047	0.3169		41.6	40.0	4.0	
Acrylonitrile	Ave	0.0825	0.0970		470	400	17.6	
Methyl tert-butyl ether	Ave	0.6151	0.6255		40.7	40.0	1.7	
Vinyl acetate	Lin2		0.4569		40.1	40.0	0.2	
Hexane	Lin2		0.6470		39.1	40.0	-2.2	
1,1-Dichloroethane	Ave	0.5996	0.6171		41.2	40.0	2.9	
2,2-Dichloropropane	Ave	0.2393	0.2774		46.4	40.0	15.9	
cis-1,2-Dichloroethene	Ave	0.3043	0.3181		41.8	40.0	4.5	
2-Butanone (MEK)	Ave	0.1061	0.1272		48.0	40.0	19.9	
Chlorobromomethane	Ave	0.1129	0.1176		41.7	40.0	4.2	
Tetrahydrofuran	Ave	0.0707	0.0764		86.5	80.0	8.1	
Chloroform	Ave	0.4388	0.4667		42.5	40.0	6.4	
1,1,1-Trichloroethane	Ave	0.3438	0.3778		44.0	40.0	9.9	
Cyclohexane	Ave	0.7838	0.7486		38.2	40.0	-4.5	
Carbon tetrachloride	Ave	0.3142	0.3556		45.3	40.0	13.2	
1,1-Dichloropropene	Ave	0.4012	0.4147		41.4	40.0	3.4	
Benzene	Ave	1.123	1.175		41.9	40.0	4.6	
Isobutyl alcohol	Ave	0.0054	0.0061		1130	1000	12.6	
1,2-Dichloroethane	Ave	0.2775	0.3120		45.0	40.0	12.4	
n-Heptane	Lin2		0.6956		42.4	40.0	5.9	
Trichloroethene	Ave	0.2578	0.2761		42.8	40.0	7.1	
Methylcyclohexane	Lin2		0.5884		40.7	40.0	1.7	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141065/2 Calibration Date: 05/09/2015 12:04

Instrument ID: CHHP4 Calib Start Date: 04/27/2015 11:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/27/2015 13:50

Lab File ID: 4050902.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3040	0.3130		41.2	40.0	3.0	
Dibromomethane	Ave	0.1139	0.1172		41.2	40.0	2.9	
1,4-Dioxane	Ave	0.0020	0.0022		871	800	8.9	
Dichlorobromomethane	Ave	0.2515	0.2822		44.9	40.0	12.2	
trans-1,3-Dichloropropene	Ave	1.524	1.586		41.6	40.0	4.1	
4-Methyl-2-pentanone (MIBK)	Ave	0.8735	1.022		46.8	40.0	17.0	
Toluene	Lin2	5.529	5.138		42.0	40.0	5.0	
cis-1,3-Dichloropropene	Ave	0.2629	0.2901		44.1	40.0	10.4	
Ethyl methacrylate	Qua		1.144		41.3	40.0	3.3	
1,1,2-Trichloroethane	Ave	0.7687	0.7616		39.6	40.0	-0.9	
Tetrachloroethene	Ave	0.9464	1.002		42.4	40.0	5.9	
1,3-Dichloropropane	Ave	1.409	1.511		42.9	40.0	7.3	
2-Hexanone	Ave	0.5943	0.6657		44.8	40.0	12.0	
Chlorodibromomethane	Ave	0.6315	0.6661		42.2	40.0	5.5	
1,2-Dibromoethane	Ave	0.7024	0.7004		39.9	40.0	-0.3	
Chlorobenzene	Ave	2.860	3.098		43.3	40.0	8.3	
1,1,1,2-Tetrachloroethane	Ave	0.9020	0.9730		43.1	40.0	7.9	
Ethylbenzene	Ave	1.816	2.014		44.3	40.0	10.9	
m-Xylene & p-Xylene	Ave	2.361	2.445		41.4	40.0	3.5	
o-Xylene	Ave	2.146	2.273		42.4	40.0	5.9	
Styrene	Ave	3.309	3.602		43.5	40.0	8.8	
Bromoform	Qua		0.3726		42.2	40.0	5.4	
Isopropylbenzene	Qua		6.114		45.5	40.0	13.9	
Bromobenzene	Ave	0.8238	0.8834		42.9	40.0	7.2	
1,1,2,2-Tetrachloroethane	Ave	0.8653	0.9186		42.5	40.0	6.2	
trans-1,4-Dichloro-2-butene	Ave	0.1679	0.1904		45.4	40.0	13.4	
1,2,3-Trichloropropane	Lin2		0.2044		43.9	40.0	9.8	
N-Propylbenzene	Ave	1.207	1.359		45.0	40.0	12.6	
2-Chlorotoluene	Ave	0.9246	1.017		44.0	40.0	10.0	
1,3,5-Trimethylbenzene	Ave	3.519	3.741		42.5	40.0	6.3	
4-Chlorotoluene	Ave	0.8928	0.9752		43.7	40.0	9.2	
tert-Butylbenzene	Ave	3.123	3.329		42.6	40.0	6.6	
1,2,4-Trimethylbenzene	Ave	3.508	3.742		42.7	40.0	6.7	
sec-Butylbenzene	Ave	4.677	5.137		43.9	40.0	9.8	
1,3-Dichlorobenzene	Ave	1.658	1.791		43.2	40.0	8.0	
4-Isopropyltoluene	Ave	3.827	4.162		43.5	40.0	8.8	
1,4-Dichlorobenzene	Ave	1.611	1.772		44.0	40.0	10.0	
1,2-Dichlorobenzene	Ave	1.499	1.621		43.3	40.0	8.2	
n-Butylbenzene	Ave	3.640	3.956		43.5	40.0	8.7	
1,2-Dibromo-3-Chloropropane	Lin1		0.0754		40.4	40.0	0.9	
1,2,4-Trichlorobenzene	Ave	0.6820	0.6824		40.0	40.0	0.0	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141065/2 Calibration Date: 05/09/2015 12:04

Instrument ID: CHHP4 Calib Start Date: 04/27/2015 11:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/27/2015 13:50

Lab File ID: 4050902.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorobutadiene	Ave	0.6688	0.7494		44.8	40.0	12.1	
Naphthalene	Ave	1.187	1.155		38.9	40.0	-2.7	
1,2,3-Trichlorobenzene	Ave	0.5486	0.5475		39.9	40.0	-0.2	
Dibromofluoromethane (Surr)	Ave	0.2062	0.2245		43.6	40.0	8.9	
1,2-Dichloroethane-d4 (Surr)	Ave	0.2295	0.2459		42.8	40.0	7.1	
Toluene-d8 (Surr)	Ave	3.977	4.014		40.4	40.0	0.9	
4-Bromofluorobenzene (Surr)	Ave	1.365	1.354		39.7	40.0	-0.8	

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050902.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-May-2015 12:04:30 ALS Bottle#: 10 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0006844-002
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub11

Method: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 10-May-2015 11:35:21 Calib Date: 27-Apr-2015 13:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20150427-6642.b\4042710.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.204	3.204	0.000	98	219461	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	6.252	6.252	0.000	98	742593	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.446	9.446	0.000	87	179904	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.800	11.800	0.000	96	237433	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.492	5.492	0.000	93	133373	200.0	217.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.881	5.881	0.000	96	146058	200.0	214.2	
$ 7 Toluene-d8 (Surr)	98	7.974	7.974	0.000	94	577675	200.0	201.8	
$ 8 4-Bromofluorobenzene (Surr	95	10.650	10.650	0.000	90	194898	200.0	198.4	
10 Dichlorodifluoromethane	85	1.197	1.197	0.000	99	226266	200.0	192.8	
11 Chloromethane	50	1.306	1.306	0.000	99	370387	200.0	213.6	
12 Vinyl chloride	62	1.410	1.410	0.000	98	306731	200.0	208.2	
13 Butadiene	54	1.428	1.428	0.000	94	305138	200.0	208.3	
14 Bromomethane	94	1.641	1.641	0.000	91	46617	200.0	235.3	
15 Chloroethane	64	1.726	1.726	0.000	95	59870	200.0	244.7	
17 Trichlorofluoromethane	101	1.939	1.939	0.000	94	163335	200.0	283.1	
16 Dichlorofluoromethane	67	1.933	1.933	0.000	96	209246	200.0	296.0	
19 Ethyl ether	59	2.237	2.237	0.000	97	103940	200.0	211.8	
21 1,1-Dichloroethene	96	2.395	2.395	0.000	95	171730	200.0	211.5	
22 1,1,2-Trichloro-1,2,2-trif	101	2.456	2.456	0.000	95	199192	200.0	204.8	
23 Acetone	43	2.541	2.541	0.000	44	63244	200.0	278.8	
24 Iodomethane	142	2.541	2.541	0.000	98	240591	200.0	196.6	
25 Carbon disulfide	76	2.602	2.602	0.000	100	489937	200.0	198.8	
28 3-Chloro-1-propene	76	2.821	2.821	0.000	92	114672	200.0	193.8	
29 Methyl acetate	43	2.870	2.870	0.000	100	679905	1000.0	1282.9	
30 Methylene Chloride	84	2.985	2.985	0.000	96	199211	200.0	204.2	
31 2-Methyl-2-propanol	59	3.314	3.314	0.000	40	122545	2000.0	2063.1	
32 Acrylonitrile	53	3.326	3.326	0.000	99	576429	2000.0	2351.9	
33 trans-1,2-Dichloroethene	96	3.320	3.320	0.000	74	188253	200.0	208.0	
34 Methyl tert-butyl ether	73	3.369	3.369	0.000	97	371566	200.0	203.4	
35 Hexane	57	3.715	3.715	0.000	95	384337	200.0	195.7	
38 Vinyl acetate	43	3.703	3.703	0.000	72	271451	200.0	200.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 1,1-Dichloroethane	63	3.959	3.959	0.000	96	366572	200.0	205.8	
41 2,2-Dichloropropane	77	4.792	4.792	0.000	72	164818	200.0	231.9	
42 cis-1,2-Dichloroethene	96	4.804	4.804	0.000	85	188991	200.0	209.1	
43 2-Butanone (MEK)	43	4.859	4.859	0.000	99	75572	200.0	239.8	
46 Chlorobromomethane	128	5.121	5.121	0.000	89	69883	200.0	208.4	
48 Tetrahydrofuran	42	5.151	5.151	0.000	93	90800	400.0	432.4	
49 Chloroform	83	5.291	5.291	0.000	94	277271	200.0	212.7	
50 1,1,1-Trichloroethane	97	5.443	5.443	0.000	97	224413	200.0	219.8	
51 Cyclohexane	56	5.504	5.504	0.000	95	444705	200.0	191.0	
53 Carbon tetrachloride	117	5.619	5.619	0.000	95	211264	200.0	226.4	
52 1,1-Dichloropropene	75	5.644	5.644	0.000	94	246389	200.0	206.8	
54 Benzene	78	5.875	5.875	0.000	98	697970	200.0	209.3	
59 Isobutyl alcohol	41	5.948	5.948	0.000	94	91063	5000.0	5628.8	
55 1,2-Dichloroethane	62	5.978	5.978	0.000	95	185323	200.0	224.8	
58 n-Heptane	43	6.289	6.289	0.000	97	413250	200.0	211.8	
61 Trichloroethene	130	6.660	6.660	0.000	94	164039	200.0	214.2	
63 Methylcyclohexane	83	6.897	6.897	0.000	96	349554	200.0	203.5	
64 1,2-Dichloropropane	63	6.952	6.952	0.000	96	185968	200.0	206.0	
65 Dibromomethane	93	7.037	7.037	0.000	95	69651	200.0	205.8	
67 1,4-Dioxane	88	7.055	7.055	0.000	99	25536	4000.0	4355.4	
68 Dichlorobromomethane	83	7.256	7.256	0.000	97	167631	200.0	224.4	
74 trans-1,3-Dichloropropene	75	7.724	7.724	0.000	97	228287	200.0	208.1	
72 4-Methyl-2-pentanone (MIBK	43	7.895	7.895	0.000	97	147043	200.0	233.9	
73 Toluene	91	8.047	8.047	0.000	98	739466	200.0	210.0	
71 cis-1,3-Dichloropropene	75	8.327	8.327	0.000	92	172362	200.0	220.7	
75 Ethyl methacrylate	69	8.406	8.406	0.000	93	164636	200.0	206.7	
76 1,1,2-Trichloroethane	97	8.515	8.515	0.000	90	109605	200.0	198.1	
77 Tetrachloroethene	164	8.564	8.564	0.000	95	144275	200.0	211.8	
78 1,3-Dichloropropane	76	8.667	8.667	0.000	96	217453	200.0	214.5	
79 2-Hexanone	43	8.752	8.752	0.000	97	95808	200.0	224.0	
81 Chlorodibromomethane	129	8.880	8.880	0.000	91	95860	200.0	210.9	
82 Ethylene Dibromide	107	8.984	8.984	0.000	99	100798	200.0	199.4	
84 Chlorobenzene	112	9.476	9.476	0.000	92	445823	200.0	216.6	
85 1,1,1,2-Tetrachloroethane	131	9.586	9.586	0.000	95	140034	200.0	215.7	
86 Ethylbenzene	106	9.592	9.592	0.000	98	289795	200.0	221.7	
87 m-Xylene & p-Xylene	106	9.726	9.726	0.000	99	351866	200.0	207.1	
88 o-Xylene	106	10.103	10.103	0.000	97	327132	200.0	211.8	
89 Styrene	104	10.127	10.127	0.000	96	518395	200.0	217.7	
90 Bromoform	173	10.298	10.298	0.000	96	53618	200.0	210.9	
91 Isopropylbenzene	105	10.480	10.480	0.000	96	879950	200.0	227.7	
94 Bromobenzene	156	10.772	10.772	0.000	97	167790	200.0	214.5	
93 1,1,2,2-Tetrachloroethane	83	10.803	10.803	0.000	94	132214	200.0	212.3	
96 trans-1,4-Dichloro-2-buten	53	10.839	10.839	0.000	74	36157	200.0	226.8	
95 1,2,3-Trichloropropane	110	10.851	10.851	0.000	87	38824	200.0	219.5	
97 N-Propylbenzene	120	10.894	10.894	0.000	98	258078	200.0	225.2	
98 2-Chlorotoluene	126	10.967	10.967	0.000	96	193100	200.0	219.9	
99 1,3,5-Trimethylbenzene	105	11.088	11.088	0.000	96	710624	200.0	212.6	
100 4-Chlorotoluene	126	11.095	11.095	0.000	98	185234	200.0	218.5	
101 tert-Butylbenzene	119	11.393	11.393	0.000	95	632331	200.0	213.2	
103 1,2,4-Trimethylbenzene	105	11.453	11.453	0.000	98	710865	200.0	213.4	
104 sec-Butylbenzene	105	11.618	11.618	0.000	94	975726	200.0	219.7	
105 1,3-Dichlorobenzene	146	11.715	11.715	0.000	98	340129	200.0	216.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 4-Isopropyltoluene	119	11.782	11.782	0.000	97	790616	200.0	217.5	
107 1,4-Dichlorobenzene	146	11.825	11.825	0.000	94	336632	200.0	220.0	
111 1,2-Dichlorobenzene	146	12.171	12.171	0.000	97	307992	200.0	216.4	
110 n-Butylbenzene	91	12.184	12.184	0.000	98	751444	200.0	217.4	
112 1,2-Dibromo-3-Chloropropan	75	12.962	12.962	0.000	79	14313	200.0	201.9	
113 1,2,4-Trichlorobenzene	180	13.777	13.777	0.000	93	129610	200.0	200.1	
115 Hexachlorobutadiene	225	13.929	13.929	0.000	97	142351	200.0	224.1	
116 Naphthalene	128	14.033	14.033	0.000	97	219459	200.0	194.6	
117 1,2,3-Trichlorobenzene	180	14.252	14.252	0.000	94	103998	200.0	199.6	
S 129 1,2-Dichloroethene, Total	96				0		400.0	417.1	
S 130 Xylenes, Total	106				0		400.0	418.9	
S 131 1,3-Dichloropropene, Total	1				0		400.0	428.9	

Reagents:

VOA8260INT_00032	Amount Added:	10.00	Units: uL
VOA8260VOAPRI_00115	Amount Added:	8.00	Units: uL
voaW VA pri R_00005	Amount Added:	8.00	Units: uL
VOA8260SURR_00035	Amount Added:	8.00	Units: uL

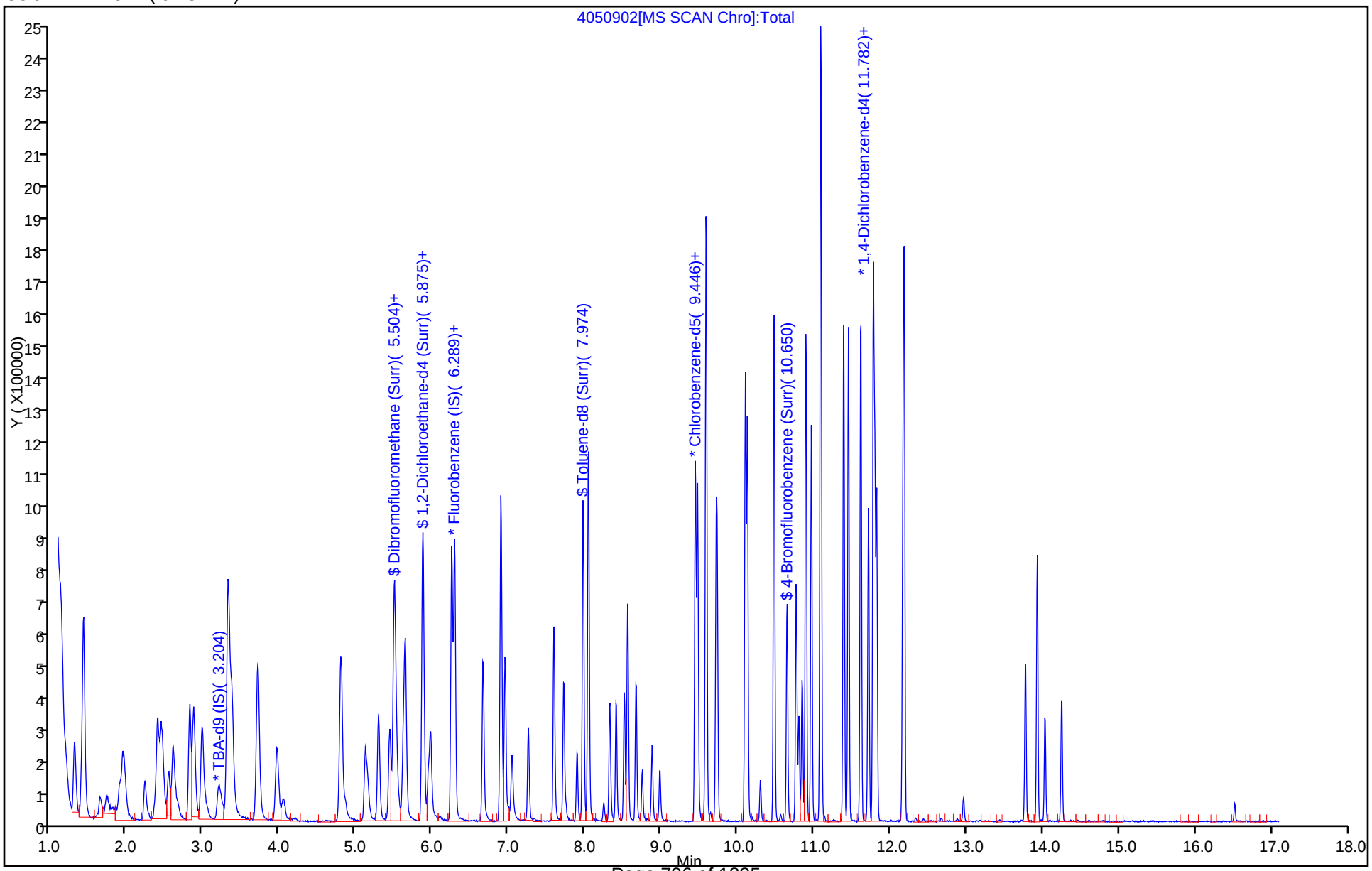
Report Date: 10-May-2015 11:35:22 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050902.D

Injection Date:	09-May-2015 12:04:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-141065/3 Calibration Date: 05/09/2015 12:46

Instrument ID: CHHP4 Calib Start Date: 11/03/2014 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/03/2014 16:24

Lab File ID: 4050903.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.1085	0.1315		96.9	80.0	21.1	

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050903.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2015 12:46:30 ALS Bottle#: 11 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 180-0006844-003
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub40

Method: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 10-May-2015 11:35:23 Calib Date: 27-Apr-2015 13:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20150427-6642.b\4042710.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: journetp Date: 09-May-2015 12:08:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.126	3.126	0.000	97	131512	5000.0	5000.0	s
* 2 Fluorobenzene (IS)	96	6.253	6.253	0.000	97	846197	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.447	9.447	0.000	88	182246	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.801	11.801	0.000	96	206771	250.0	250.0	
20 Acrolein	56	2.353	2.353	0.000	98	47387	875.0	1015.4	
26 Isopropyl alcohol	45	2.730	2.730	0.000	98	77774	2000.0	1104.5	
27 Acetonitrile	40	2.816	2.816	0.000	97	120423	2000.0	1532.5	
18 Ethanol	45	3.120	3.120	0.000	12	7406	10000	9519.7	
37 2-Chloro-1,3-butadiene	53	4.069	4.069	0.000	93	602453	200.0	309.2	
39 Isopropyl ether	45	4.099	4.099	0.000	96	1130733	200.0	270.8	
40 Tert-butyl ethyl ether	59	4.635	4.635	0.000	98	737692	200.0	237.9	
44 Propionitrile	54	4.927	4.927	0.000	100	173054	2000.0	1449.8	M
45 Ethyl acetate	43	4.945	4.945	0.000	99	143458	400.0	223.6	
47 Methacrylonitrile	41	5.115	5.115	0.000	95	882187	2000.0	1504.6	
57 Isooctane	57	6.058	6.058	0.000	96	1893245	200.0	301.8	
56 Tert-amyl methyl ether	73	6.101	6.101	0.000	95	455427	200.0	200.9	
62 Ethyl acrylate	55	6.837	6.837	0.000	98	144399	200.0	133.0	
60 n-Butanol	56	7.080	7.080	0.000	40	7802	5000.0	318.2	
66 Methyl methacrylate	69	7.080	7.080	0.000	96	166193	400.0	315.8	
69 2-Nitropropane	41	7.494	7.494	0.000	93	36643	400.0	276.1	
70 2-Chloroethyl vinyl ether	63	7.597	7.597	0.000	90	177977	400.0	484.6	
80 n-Butyl acetate	43	8.893	8.893	0.000	98	126014	200.0	127.1	
92 Cyclohexanone	55	10.554	10.554	0.000	96	60282	4000.0	1915.7	
102 Pentachloroethane	167	11.412	11.412	0.000	90	115330	200.0	310.2	
108 1,2,3-Trimethylbenzene	105	11.856	11.856	0.000	97	959986	200.0	266.4	
109 Benzyl chloride	91	11.947	11.947	0.000	98	118165	200.0	234.2	
114 1,3,5-Trichlorobenzene	180	13.151	13.151	0.000	96	289220	200.0	301.2	
118 2-Methylnaphthalene	142	15.177	15.177	0.000	91	29756	200.0	155.0	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00032	Amount Added:	10.00	Units: uL
VOACEVEPRI_00006	Amount Added:	8.00	Units: uL
VOAAPPIXPRI_00009	Amount Added:	8.00	Units: uL
VOAACROPRI_00005	Amount Added:	35.00	Units: uL

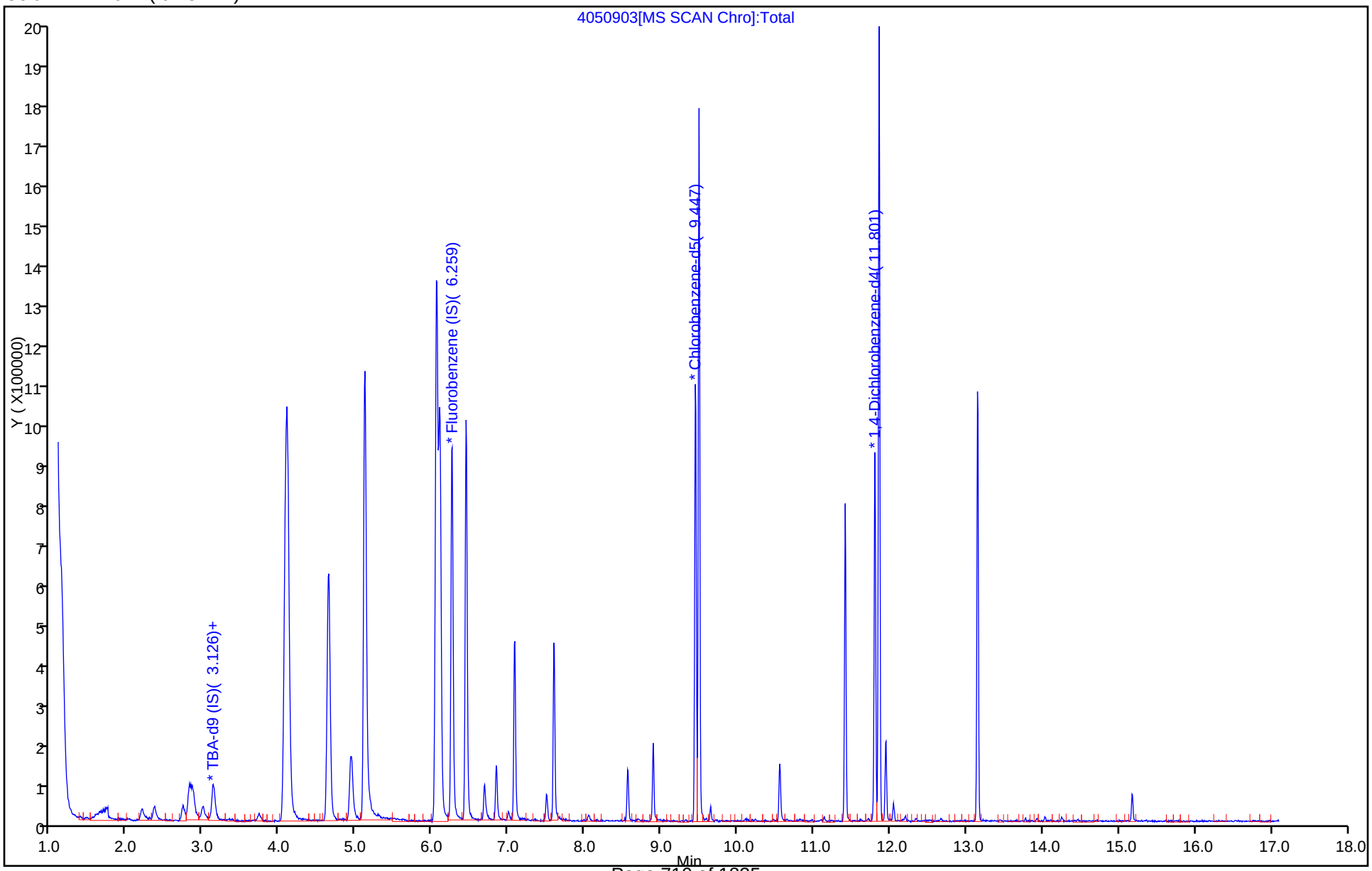
Report Date: 10-May-2015 11:35:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050903.D

Injection Date:	09-May-2015 12:46:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-141065/3 Calibration Date: 05/09/2015 12:46

Instrument ID: CHHP4 Calib Start Date: 11/11/2014 10:05

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/11/2014 13:13

Lab File ID: 4050903.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0232	0.0178		306	400	-23.4	
Chloroprene	Ave	0.5757	0.8899		61.8	40.0	54.6	
Isopropyl ether	Ave	1.234	1.670		54.2	40.0	35.4	
Propionitrile	Qua		0.0256		290	400	-27.5	
Methacrylonitrile	Qua		0.1303		301	400	-24.8	
Isooctane	Ave	1.854	2.797		60.4	40.0	50.9	
Ethyl acrylate	Qua		0.9904		26.6	40.0	-33.5	
Methyl methacrylate	Ave	0.1621	0.1228		63.2	80.0	-24.3	
n-Butanol	Qua		0.0005		63.6	1000	-93.6	
2-Nitropropane	Ave	0.1820	0.1257		55.2	80.0	-31.0	
Cyclohexanone	Qua		0.0207		383	800	-52.1	
1,2,3-Trimethylbenzene	Ave	4.357	5.803		53.3	40.0	33.2	
Benzyl chloride	Qua		0.7144		46.8	40.0	17.1	
1,3,5-Trichlorobenzene	Ave	1.161	1.748		60.2	40.0	50.6	

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050903.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2015 12:46:30 ALS Bottle#: 11 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 180-0006844-003
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub40

Method: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 10-May-2015 11:35:23 Calib Date: 27-Apr-2015 13:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20150427-6642.b\4042710.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: journetp Date: 09-May-2015 12:08:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.126	3.126	0.000	97	131512	5000.0	5000.0	s
* 2 Fluorobenzene (IS)	96	6.253	6.253	0.000	97	846197	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.447	9.447	0.000	88	182246	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.801	11.801	0.000	96	206771	250.0	250.0	
20 Acrolein	56	2.353	2.353	0.000	98	47387	875.0	1015.4	
26 Isopropyl alcohol	45	2.730	2.730	0.000	98	77774	2000.0	1104.5	
27 Acetonitrile	40	2.816	2.816	0.000	97	120423	2000.0	1532.5	
18 Ethanol	45	3.120	3.120	0.000	12	7406	10000	9519.7	
37 2-Chloro-1,3-butadiene	53	4.069	4.069	0.000	93	602453	200.0	309.2	
39 Isopropyl ether	45	4.099	4.099	0.000	96	1130733	200.0	270.8	
40 Tert-butyl ethyl ether	59	4.635	4.635	0.000	98	737692	200.0	237.9	
44 Propionitrile	54	4.927	4.927	0.000	100	173054	2000.0	1449.8	M
45 Ethyl acetate	43	4.945	4.945	0.000	99	143458	400.0	223.6	
47 Methacrylonitrile	41	5.115	5.115	0.000	95	882187	2000.0	1504.6	
57 Isooctane	57	6.058	6.058	0.000	96	1893245	200.0	301.8	
56 Tert-amyl methyl ether	73	6.101	6.101	0.000	95	455427	200.0	200.9	
62 Ethyl acrylate	55	6.837	6.837	0.000	98	144399	200.0	133.0	
60 n-Butanol	56	7.080	7.080	0.000	40	7802	5000.0	318.2	
66 Methyl methacrylate	69	7.080	7.080	0.000	96	166193	400.0	315.8	
69 2-Nitropropane	41	7.494	7.494	0.000	93	36643	400.0	276.1	
70 2-Chloroethyl vinyl ether	63	7.597	7.597	0.000	90	177977	400.0	484.6	
80 n-Butyl acetate	43	8.893	8.893	0.000	98	126014	200.0	127.1	
92 Cyclohexanone	55	10.554	10.554	0.000	96	60282	4000.0	1915.7	
102 Pentachloroethane	167	11.412	11.412	0.000	90	115330	200.0	310.2	
108 1,2,3-Trimethylbenzene	105	11.856	11.856	0.000	97	959986	200.0	266.4	
109 Benzyl chloride	91	11.947	11.947	0.000	98	118165	200.0	234.2	
114 1,3,5-Trichlorobenzene	180	13.151	13.151	0.000	96	289220	200.0	301.2	
118 2-Methylnaphthalene	142	15.177	15.177	0.000	91	29756	200.0	155.0	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00032	Amount Added:	10.00	Units: uL
VOACEVEPRI_00006	Amount Added:	8.00	Units: uL
VOAAPPIXPRI_00009	Amount Added:	8.00	Units: uL
VOAACROPRI_00005	Amount Added:	35.00	Units: uL

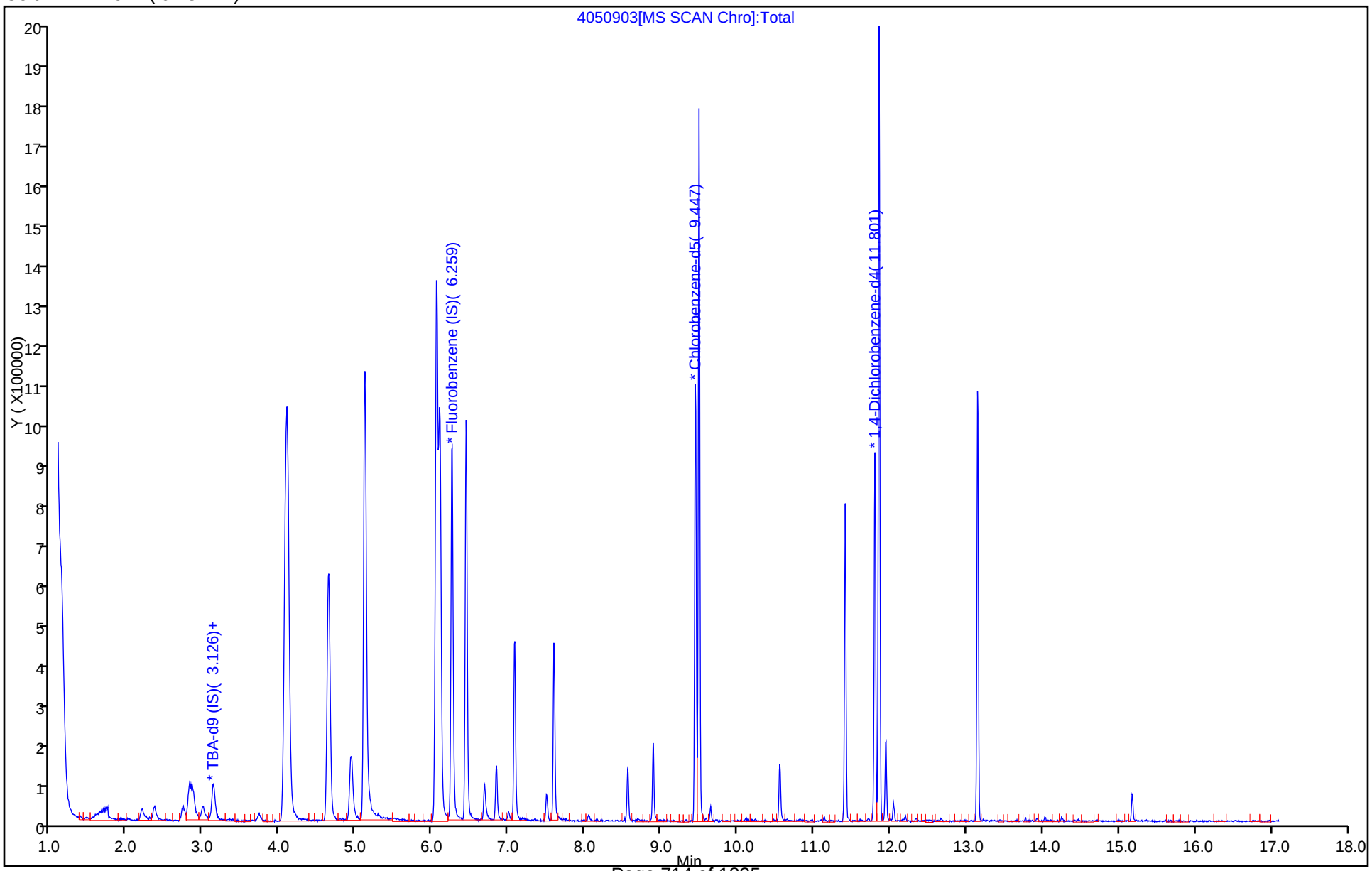
Report Date: 10-May-2015 11:35:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050903.D

Injection Date:	09-May-2015 12:46:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

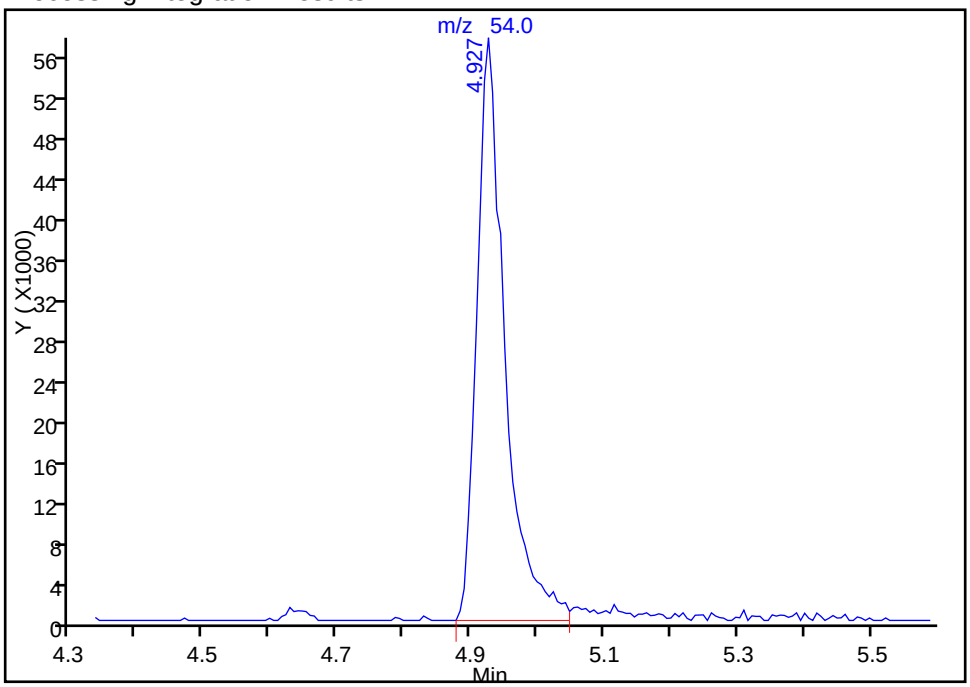
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050903.D				
Injection Date:	09-May-2015 12:46:30	Instrument ID:	CHHP4		
Lims ID:	CCV				
Client ID:					
Operator ID:	034635	ALS Bottle#:	11	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

44 Propionitrile, CAS: 107-12-0

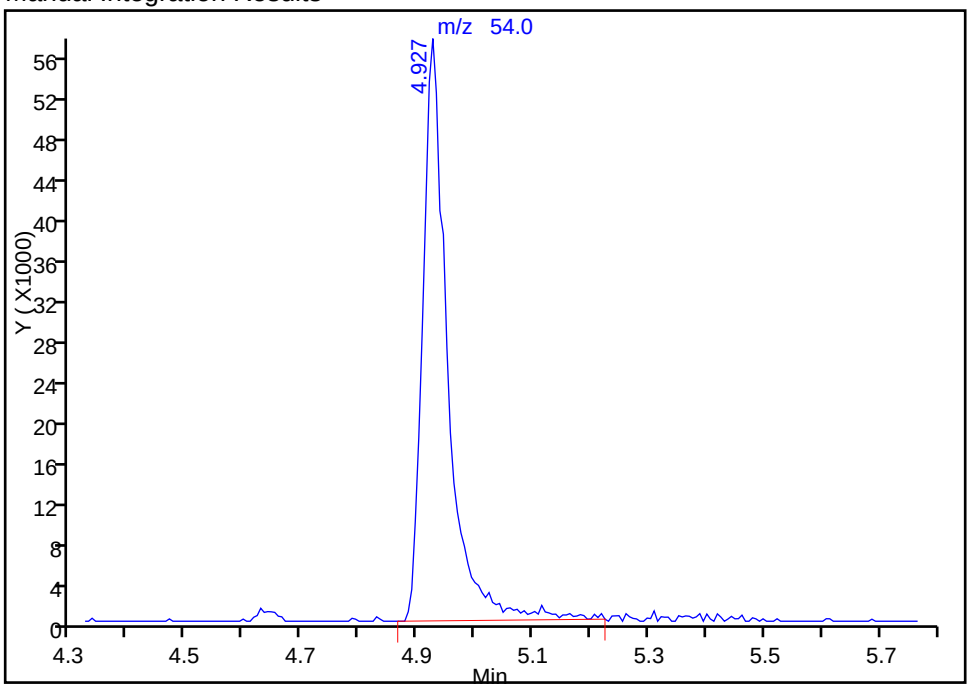
Processing Integration Results

RT: 4.93
Area: 167472
Amount: 1405.5339
Amount Units: ng



Manual Integration Results

RT: 4.93
Area: 173054
Amount: 1449.8120
Amount Units: ng



Reviewer: journetp, 09-May-2015 12:08:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-141065/3 Calibration Date: 05/09/2015 12:46

Instrument ID: CHHP4 Calib Start Date: 04/27/2015 11:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/27/2015 13:50

Lab File ID: 4050903.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acrolein	Ave	0.0138	0.0160		203	175	16.0	

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050903.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2015 12:46:30 ALS Bottle#: 11 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 180-0006844-003
Operator ID: 034635 Instrument ID: CHHP4
Sublist: chrom-MSVOA_CHHP4*sub40

Method: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 10-May-2015 11:35:23 Calib Date: 27-Apr-2015 13:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20150427-6642.b\4042710.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: journetp Date: 09-May-2015 12:08:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.126	3.126	0.000	97	131512	5000.0	5000.0	s
* 2 Fluorobenzene (IS)	96	6.253	6.253	0.000	97	846197	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.447	9.447	0.000	88	182246	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.801	11.801	0.000	96	206771	250.0	250.0	
20 Acrolein	56	2.353	2.353	0.000	98	47387	875.0	1015.4	
26 Isopropyl alcohol	45	2.730	2.730	0.000	98	77774	2000.0	1104.5	
27 Acetonitrile	40	2.816	2.816	0.000	97	120423	2000.0	1532.5	
18 Ethanol	45	3.120	3.120	0.000	12	7406	10000	9519.7	
37 2-Chloro-1,3-butadiene	53	4.069	4.069	0.000	93	602453	200.0	309.2	
39 Isopropyl ether	45	4.099	4.099	0.000	96	1130733	200.0	270.8	
40 Tert-butyl ethyl ether	59	4.635	4.635	0.000	98	737692	200.0	237.9	
44 Propionitrile	54	4.927	4.927	0.000	100	173054	2000.0	1449.8	M
45 Ethyl acetate	43	4.945	4.945	0.000	99	143458	400.0	223.6	
47 Methacrylonitrile	41	5.115	5.115	0.000	95	882187	2000.0	1504.6	
57 Isooctane	57	6.058	6.058	0.000	96	1893245	200.0	301.8	
56 Tert-amyl methyl ether	73	6.101	6.101	0.000	95	455427	200.0	200.9	
62 Ethyl acrylate	55	6.837	6.837	0.000	98	144399	200.0	133.0	
60 n-Butanol	56	7.080	7.080	0.000	40	7802	5000.0	318.2	
66 Methyl methacrylate	69	7.080	7.080	0.000	96	166193	400.0	315.8	
69 2-Nitropropane	41	7.494	7.494	0.000	93	36643	400.0	276.1	
70 2-Chloroethyl vinyl ether	63	7.597	7.597	0.000	90	177977	400.0	484.6	
80 n-Butyl acetate	43	8.893	8.893	0.000	98	126014	200.0	127.1	
92 Cyclohexanone	55	10.554	10.554	0.000	96	60282	4000.0	1915.7	
102 Pentachloroethane	167	11.412	11.412	0.000	90	115330	200.0	310.2	
108 1,2,3-Trimethylbenzene	105	11.856	11.856	0.000	97	959986	200.0	266.4	
109 Benzyl chloride	91	11.947	11.947	0.000	98	118165	200.0	234.2	
114 1,3,5-Trichlorobenzene	180	13.151	13.151	0.000	96	289220	200.0	301.2	
118 2-Methylnaphthalene	142	15.177	15.177	0.000	91	29756	200.0	155.0	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00032	Amount Added:	10.00	Units: uL
VOACEVEPRI_00006	Amount Added:	8.00	Units: uL
VOAAPPIXPRI_00009	Amount Added:	8.00	Units: uL
VOAACROPRI_00005	Amount Added:	35.00	Units: uL

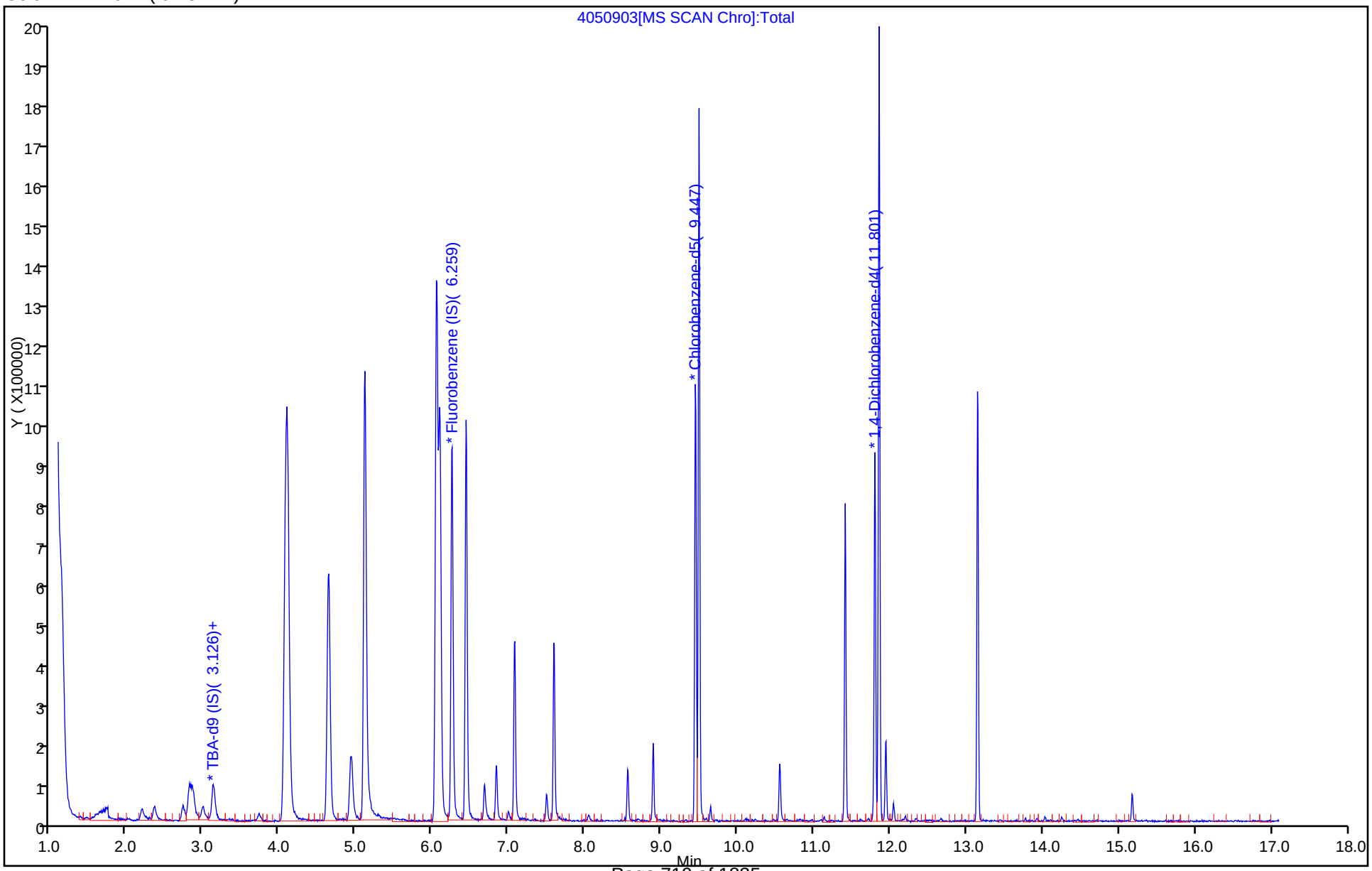
Report Date: 10-May-2015 11:35:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050903.D

Injection Date:	09-May-2015 12:46:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-140962/2 Calibration Date: 05/08/2015 08:50

Instrument ID: CHHP7 Calib Start Date: 01/13/2015 10:25

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/13/2015 14:16

Lab File ID: 7050802.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3351	0.2653		31.7	40.0	-20.8	
Chloromethane	Ave	0.3759	0.2930		31.2	40.0	-22.0	
1,3-Butadiene	Ave	0.3382	0.2643		31.3	40.0	-21.8	
Vinyl chloride	Ave	0.3038	0.2526		33.3	40.0	-16.9	
Bromomethane	Lin		0.2907		48.3	40.0	20.9	
Chloroethane	Qua		0.2522		41.7	40.0	4.2	
Trichlorofluoromethane	Ave	0.6521	0.6916		42.4	40.0	6.1	
Dichlorofluoromethane	Ave	0.6544	0.6270		38.3	40.0	-4.2	
Ethyl ether	Ave	0.1946	0.1743		35.8	40.0	-10.4	
Acrolein	Ave	0.0249	0.0213		150	175	-14.4	
1,1-Dichloroethene	Ave	0.3377	0.3459		41.0	40.0	2.4	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4009	0.3661		36.5	40.0	-8.7	
Iodomethane	Ave	0.6420	0.6201		38.6	40.0	-3.4	
Acetone	Qua		0.1194		58.6	40.0	46.5	
Carbon disulfide	Ave	1.071	0.9321		34.8	40.0	-13.0	
Allyl chloride	Ave	0.2285	0.2013		35.2	40.0	-11.9	
Methyl acetate	Ave	0.1195	0.1138		190	200	-4.8	
Methylene Chloride	Ave	0.3372	0.2886		34.2	40.0	-14.4	
trans-1,2-Dichloroethene	Ave	0.3606	0.3518		39.0	40.0	-2.4	
Acrylonitrile	Ave	0.0517	0.0469		363	400	-9.3	
tert-Butyl alcohol	Ave	1.115	1.181		424	400	5.9	
Methyl tert-butyl ether	Ave	0.7298	0.6552		35.9	40.0	-10.2	
Hexane	Ave	0.4120	0.3213		31.2	40.0	-22.0	
Vinyl acetate	Qua		0.2390		36.3	40.0	-9.3	
1,1-Dichloroethane	Ave	0.5458	0.4911		36.0	40.0	-10.0	
2,2-Dichloropropane	Ave	0.5318	0.5305		39.9	40.0	-0.3	
cis-1,2-Dichloroethene	Ave	0.3620	0.3361		37.1	40.0	-7.2	
2-Butanone (MEK)	Ave	0.0739	0.0969		52.4	40.0	31.0	
Chlorobromomethane	Ave	0.1710	0.1833		42.9	40.0	7.1	
Tetrahydrofuran	Ave	0.0355	0.0355		80.0	80.0	-0.0	
Chloroform	Ave	0.5652	0.5570		39.4	40.0	-1.4	
1,1,1-Trichloroethane	Ave	0.5831	0.5689		39.0	40.0	-2.4	
Cyclohexane	Ave	0.4850	0.3802		31.4	40.0	-21.6	
Isobutyl alcohol	Ave	0.0132	0.0113		859	1000	-14.1	
Carbon tetrachloride	Ave	0.5663	0.5834		41.2	40.0	3.0	
1,1-Dichloropropene	Lin		0.3758		42.2	40.0	5.5	
Benzene	Ave	1.096	1.184		43.2	40.0	7.9	
1,2-Dichloroethane	Ave	0.3293	0.3186		38.7	40.0	-3.2	
n-Heptane	Ave	0.3650	0.3222		35.3	40.0	-11.7	
Trichloroethene	Ave	0.3670	0.4364		47.6	40.0	18.9	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-140962/2 Calibration Date: 05/08/2015 08:50

Instrument ID: CHHP7 Calib Start Date: 01/13/2015 10:25

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/13/2015 14:16

Lab File ID: 7050802.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5686	0.4983		35.1	40.0	-12.4	
1,2-Dichloropropane	Ave	0.2184	0.1907		34.9	40.0	-12.7	
Dibromomethane	Ave	0.1574	0.1535		39.0	40.0	-2.5	
1,4-Dioxane	Qua		0.0014		1130	800	40.7	
Dichlorobromomethane	Ave	0.3873	0.4188		43.3	40.0	8.1	
cis-1,3-Dichloropropene	Ave	0.3853	0.4006		41.6	40.0	4.0	
4-Methyl-2-pentanone (MIBK)	Ave	0.5769	0.6192		42.9	40.0	7.3	
Toluene	Ave	4.168	4.316		41.4	40.0	3.5	
trans-1,3-Dichloropropene	Ave	1.171	1.134		38.7	40.0	-3.1	
Ethyl methacrylate	Ave	0.8159	0.7073		34.7	40.0	-13.3	
1,1,2-Trichloroethane	Ave	0.6931	0.6451		37.2	40.0	-6.9	
Tetrachloroethene	Ave	0.9941	0.8911		35.9	40.0	-10.4	
1,3-Dichloropropane	Ave	1.081	1.052		38.9	40.0	-2.7	
2-Hexanone	Lin	0.3441	0.4607		45.6	40.0	14.0	
Chlorodibromomethane	Ave	1.142	1.165		40.8	40.0	2.0	
1,2-Dibromoethane	Ave	0.7385	0.7348		39.8	40.0	-0.5	
Chlorobenzene	Ave	2.987	3.007		40.3	40.0	0.7	
1,1,1,2-Tetrachloroethane	Ave	1.243	1.210		38.9	40.0	-2.7	
Ethylbenzene	Ave	1.625	1.379		33.9	40.0	-15.1	
m-Xylene & p-Xylene	Ave	2.089	1.798		34.4	40.0	-13.9	
o-Xylene	Ave	2.108	1.793		34.0	40.0	-15.0	
Styrene	Ave	3.162	2.887		36.5	40.0	-8.7	
Bromoform	Ave	0.5836	0.6039		41.4	40.0	3.5	
Isopropylbenzene	Ave	6.007	5.156		34.3	40.0	-14.2	
1,1,2,2-Tetrachloroethane	Ave	0.6965	0.6423		36.9	40.0	-7.8	
Bromobenzene	Ave	0.9900	1.140		46.1	40.0	15.2	
1,2,3-Trichloropropane	Ave	0.1923	0.2310		48.1	40.0	20.1	
trans-1,4-Dichloro-2-butene	Lin		0.1071		32.1	40.0	-19.8	
N-Propylbenzene	Ave	1.314	1.536		46.7	40.0	16.9	
2-Chlorotoluene	Ave	1.138	1.284		45.2	40.0	12.9	
1,3,5-Trimethylbenzene	Ave	3.673	3.681		40.1	40.0	0.2	
4-Chlorotoluene	Ave	1.101	1.255		45.6	40.0	14.0	
tert-Butylbenzene	Ave	3.499	3.763		43.0	40.0	7.6	
1,2,4-Trimethylbenzene	Ave	3.579	3.235		36.1	40.0	-9.6	
sec-Butylbenzene	Ave	4.679	4.627		39.5	40.0	-1.1	
1,3-Dichlorobenzene	Ave	1.856	1.824		39.3	40.0	-1.7	
4-Isopropyltoluene	Ave	3.918	3.716		37.9	40.0	-5.2	
1,4-Dichlorobenzene	Ave	1.762	1.651		37.5	40.0	-6.3	
n-Butylbenzene	Ave	3.232	2.672		33.1	40.0	-17.3	
1,2-Dichlorobenzene	Ave	1.451	1.357		37.4	40.0	-6.5	
1,2-Dibromo-3-Chloropropane	Qua		0.0822		35.8	40.0	-10.6	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-140962/2 Calibration Date: 05/08/2015 08:50

Instrument ID: CHHP7 Calib Start Date: 01/13/2015 10:25

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/13/2015 14:16

Lab File ID: 7050802.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.4126	0.2366		22.9	40.0	-42.7	
Hexachlorobutadiene	Ave	0.2408	0.1483		24.6	40.0	-38.4	
Naphthalene	Ave	0.7394	0.4827		26.1	40.0	-34.7	
1,2,3-Trichlorobenzene	Qua		0.1373		20.7	40.0	-48.2	
Dibromofluoromethane (Surr)	Ave	0.3031	0.3167		41.8	40.0	4.5	
1,2-Dichloroethane-d4 (Surr)	Ave	0.2933	0.2748		37.5	40.0	-6.3	
Toluene-d8 (Surr)	Ave	3.689	3.298		35.8	40.0	-10.6	
4-Bromofluorobenzene (Surr)	Ave	1.433	1.281		35.8	40.0	-10.6	

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-May-2015 08:50:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0006830-002
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub1

Method: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 08-May-2015 17:48:34 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: journetp Date: 08-May-2015 09:48:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.710	4.710	0.000	68	126072	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.405	7.405	0.000	95	600352	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.465	10.465	0.000	84	172505	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.789	12.789	0.000	94	173940	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.675	6.675	0.000	70	152085	200.0	208.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.040	7.040	0.000	94	131965	200.0	187.4	M
$ 7 Toluene-d8 (Surr)	98	9.035	9.035	0.000	93	455164	200.0	178.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.633	11.633	0.000	89	176728	200.0	178.8	
10 Dichlorodifluoromethane	85	1.954	1.954	0.000	52	127416	200.0	158.3	M
11 Chloromethane	50	2.057	2.057	0.000	80	140738	200.0	155.9	M
13 Butadiene	39	2.203	2.203	0.000	68	126943	200.0	156.3	M
12 Vinyl chloride	62	2.203	2.203	0.000	67	121315	200.0	166.3	M
14 Bromomethane	94	2.489	2.489	0.000	78	139613	200.0	241.7	M
15 Chloroethane	64	2.641	2.641	0.000	74	121127	200.0	208.5	M
16 Trichlorofluoromethane	101	2.873	2.873	0.000	57	332183	200.0	212.1	M
17 Dichlorofluoromethane	67	2.891	2.891	0.000	31	301155	200.0	191.6	M
18 Ethyl ether	59	3.304	3.304	0.000	19	83704	200.0	179.2	M
19 Acrolein	56	3.530	3.530	0.000	24	44728	875.0	749.0	M
20 1,1-Dichloroethene	96	3.566	3.566	0.000	1	166126	200.0	204.9	M
21 1,1,2-Trichloro-1,2,2-trif	101	3.712	3.712	0.000	36	175829	200.0	182.6	M
23 Iodomethane	142	3.797	3.797	0.000	99	297842	200.0	193.2	M
22 Acetone	43	3.803	3.803	0.000	32	57351	200.0	292.9	M
24 Carbon disulfide	76	3.828	3.828	0.000	99	447651	200.0	174.0	M
26 3-Chloro-1-propene	76	4.138	4.138	0.000	71	96664	200.0	176.2	M
28 Methyl acetate	43	4.290	4.290	0.000	96	273168	1000.0	951.8	M
29 Methylene Chloride	84	4.363	4.363	0.000	90	138630	200.0	171.2	M
30 trans-1,2-Dichloroethene	96	4.765	4.765	0.000	1	168977	200.0	195.1	M
31 Acrylonitrile	53	4.819	4.819	0.000	88	225460	2000.0	1814.5	M
32 2-Methyl-2-propanol	59	4.825	4.825	0.000	50	59580	2000.0	2118.3	
33 Methyl tert-butyl ether	73	4.838	4.838	0.000	95	314684	200.0	179.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Hexane	57	5.166	5.166	0.000	91	154303	200.0	155.9	M
35 Vinyl acetate	43	5.172	5.172	0.000	67	114764	200.0	181.5	M
36 1,1-Dichloroethane	63	5.355	5.355	0.000	93	235852	200.0	180.0	M
42 2,2-Dichloropropane	77	6.097	6.097	0.000	88	254769	200.0	199.5	
41 cis-1,2-Dichloroethene	96	6.115	6.115	0.000	77	161405	200.0	185.7	
43 2-Butanone (MEK)	43	6.176	6.176	0.000	90	46531	200.0	262.1	
46 Chlorobromomethane	128	6.377	6.377	0.000	78	88017	200.0	214.3	
48 Tetrahydrofuran	42	6.474	6.474	0.000	46	34055	400.0	399.8	
49 Chloroform	83	6.492	6.492	0.000	95	267512	200.0	197.1	
50 1,1,1-Trichloroethane	97	6.675	6.675	0.000	97	273226	200.0	195.1	
52 Cyclohexane	56	6.729	6.729	0.000	86	182623	200.0	156.8	
51 Isobutyl alcohol	41	6.736	6.736	0.000	51	136191	5000.0	4295.2	
53 Carbon tetrachloride	117	6.863	6.863	0.000	95	280207	200.0	206.0	
54 1,1-Dichloropropene	75	6.869	6.869	0.000	85	180481	200.0	211.0	
55 Benzene	78	7.088	7.088	0.000	95	568435	200.0	215.9	
56 1,2-Dichloroethane	62	7.131	7.131	0.000	97	153032	200.0	193.5	
59 n-Heptane	43	7.405	7.405	0.000	59	154765	200.0	176.6	
60 Trichloroethene	130	7.794	7.794	0.000	93	209588	200.0	237.8	
63 Methylcyclohexane	83	7.989	7.989	0.000	89	239316	200.0	175.3	
64 1,2-Dichloropropane	63	8.025	8.025	0.000	72	91574	200.0	174.6	
65 Dibromomethane	93	8.153	8.153	0.000	95	73711	200.0	195.0	
67 1,4-Dioxane	88	8.196	8.196	0.000	28	13584	4000.0	5626.5	
68 Dichlorobromomethane	83	8.317	8.317	0.000	97	201150	200.0	216.3	
71 cis-1,3-Dichloropropene	75	8.767	8.767	0.000	92	192396	200.0	207.9	
72 4-Methyl-2-pentanone (MIBK	43	8.938	8.938	0.000	95	85452	200.0	214.7	
73 Toluene	91	9.102	9.102	0.000	97	595570	200.0	207.1	
74 trans-1,3-Dichloropropene	75	9.327	9.327	0.000	94	156489	200.0	193.7	
75 Ethyl methacrylate	69	9.418	9.418	0.000	89	97608	200.0	173.4	
76 1,1,2-Trichloroethane	97	9.504	9.504	0.000	92	89022	200.0	186.1	
77 Tetrachloroethene	164	9.643	9.643	0.000	93	122978	200.0	179.3	
78 1,3-Dichloropropane	76	9.674	9.674	0.000	91	145189	200.0	194.6	
79 2-Hexanone	43	9.765	9.765	0.000	94	63575	200.0	228.1	
81 Chlorodibromomethane	129	9.899	9.899	0.000	87	160710	200.0	204.0	
82 Ethylene Dibromide	107	10.008	10.008	0.000	98	101398	200.0	199.0	
83 Chlorobenzene	112	10.495	10.495	0.000	94	414974	200.0	201.3	
84 1,1,1,2-Tetrachloroethane	131	10.580	10.580	0.000	93	166931	200.0	194.6	
85 Ethylbenzene	106	10.605	10.605	0.000	98	190312	200.0	169.7	
86 m-Xylene & p-Xylene	106	10.720	10.720	0.000	98	248136	200.0	172.1	
88 o-Xylene	106	11.116	11.116	0.000	97	247421	200.0	170.1	
89 Styrene	104	11.128	11.128	0.000	94	398445	200.0	182.6	
90 Bromoform	173	11.316	11.316	0.000	91	83338	200.0	207.0	
91 Isopropylbenzene	105	11.481	11.481	0.000	95	711501	200.0	171.7	
93 1,1,2,2-Tetrachloroethane	83	11.773	11.773	0.000	96	88644	200.0	184.4	
94 Bromobenzene	156	11.785	11.785	0.000	89	158640	200.0	230.3	
95 1,2,3-Trichloropropane	110	11.815	11.815	0.000	84	32150	200.0	240.3	
96 trans-1,4-Dichloro-2-buten	53	11.833	11.833	0.000	71	14909	200.0	160.4	
97 N-Propylbenzene	120	11.888	11.888	0.000	97	213703	200.0	233.7	
98 2-Chlorotoluene	126	11.979	11.979	0.000	97	178700	200.0	225.8	
99 1,3,5-Trimethylbenzene	105	12.059	12.059	0.000	96	512173	200.0	200.4	
100 4-Chlorotoluene	126	12.089	12.089	0.000	95	174663	200.0	228.0	
101 tert-Butylbenzene	119	12.387	12.387	0.000	91	523686	200.0	215.1	
103 1,2,4-Trimethylbenzene	105	12.442	12.442	0.000	96	450134	200.0	180.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
104 sec-Butylbenzene	105	12.606	12.606	0.000	94	643787	200.0	197.7	
105 1,3-Dichlorobenzene	146	12.722	12.722	0.000	97	253783	200.0	196.5	
106 4-Isopropyltoluene	119	12.752	12.752	0.000	96	517060	200.0	189.7	
107 1,4-Dichlorobenzene	146	12.813	12.813	0.000	93	229727	200.0	187.4	
110 n-Butylbenzene	91	13.166	13.166	0.000	96	371748	200.0	165.3	
111 1,2-Dichlorobenzene	146	13.184	13.184	0.000	97	188793	200.0	187.1	
112 1,2-Dibromo-3-Chloropropan	157	13.969	13.969	0.000	75	11441	200.0	178.9	
114 1,2,4-Trichlorobenzene	180	14.802	14.802	0.000	91	32927	200.0	114.7	
115 Hexachlorobutadiene	225	14.973	14.973	0.000	80	20634	200.0	123.1	
116 Naphthalene	128	15.052	15.052	0.000	96	67172	200.0	130.6	
117 1,2,3-Trichlorobenzene	180	15.307	15.307	0.000	89	19110	200.0	103.6	
S 129 Xylenes, Total	106				0		400.0	342.2	
S 130 1,2-Dichloroethene, Total	96				0		400.0	380.8	
S 131 1,3-Dichloropropene, Total	1				0		400.0	401.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00033	Amount Added:	10.00	Units: uL
VOA8260VOAPRI_00114	Amount Added:	8.00	Units: uL
voaW VA pri R_00005	Amount Added:	8.00	Units: uL
VOA8260SURR_00035	Amount Added:	8.00	Units: uL
VOAACROPRI_00005	Amount Added:	35.00	Units: uL

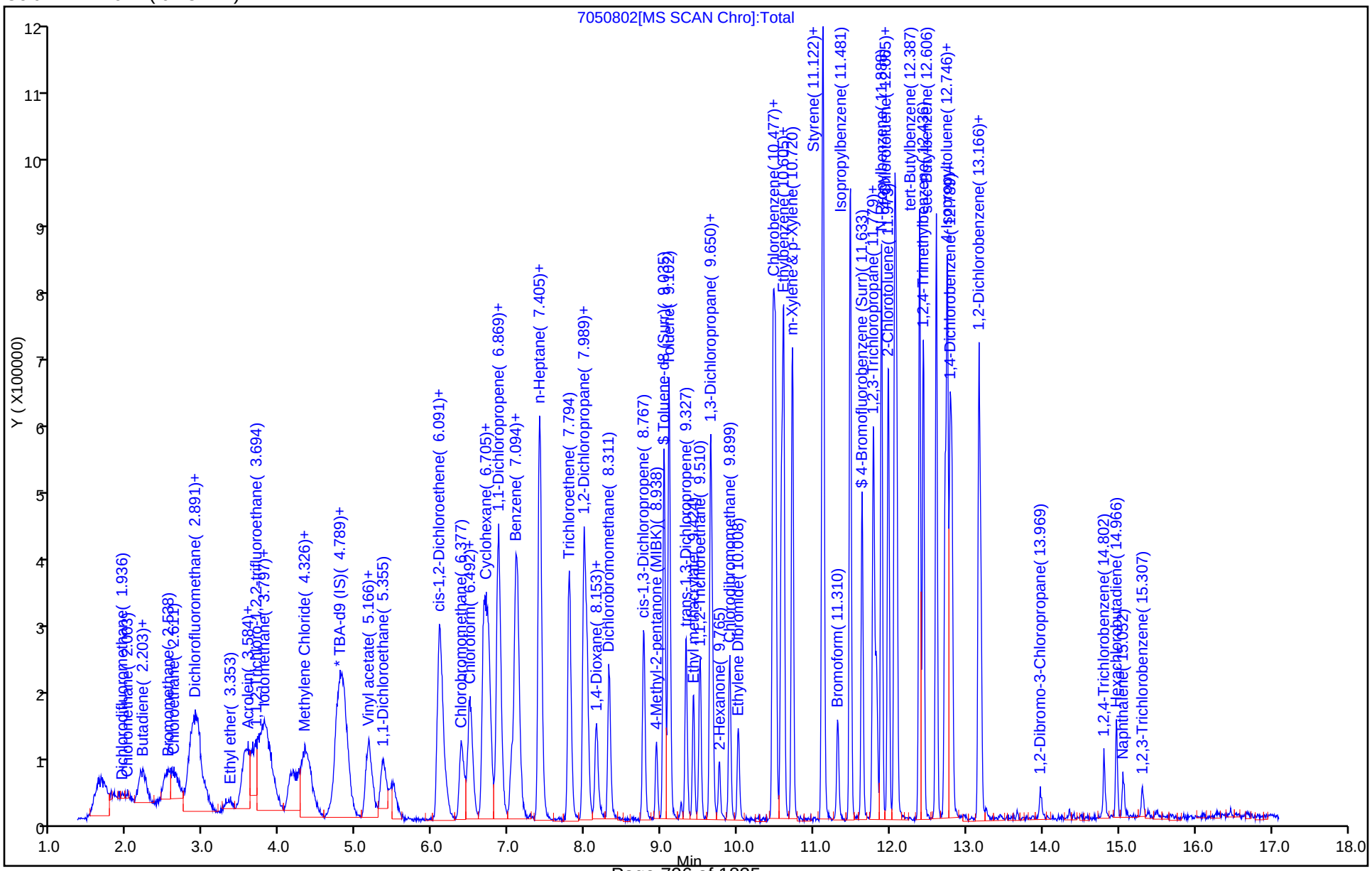
Report Date: 08-May-2015 17:48:35 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D

Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

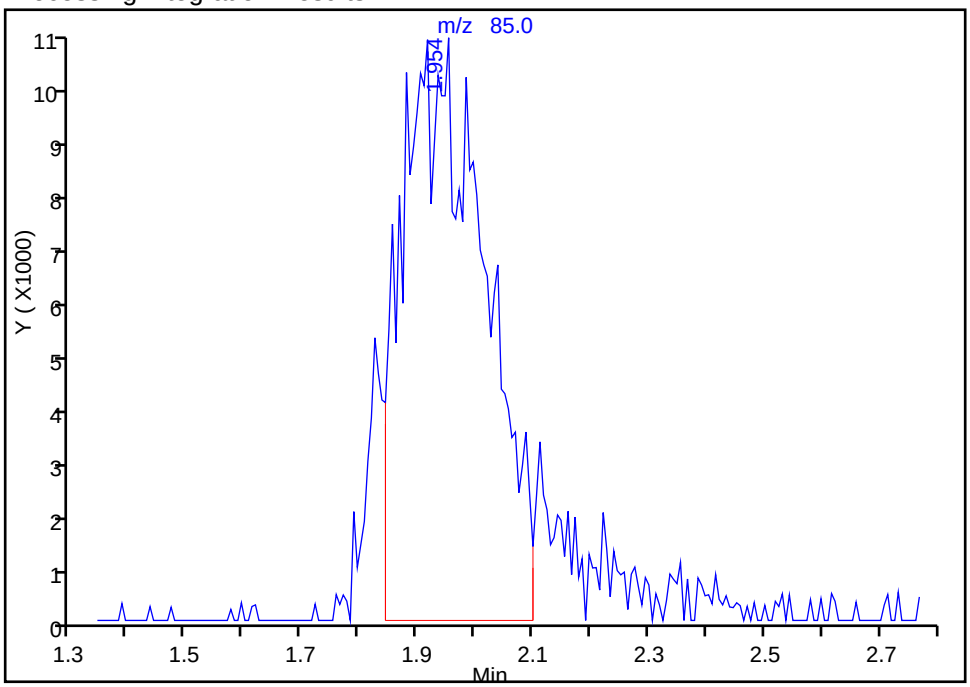
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D				
Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

10 Dichlorodifluoromethane, CAS: 75-71-8

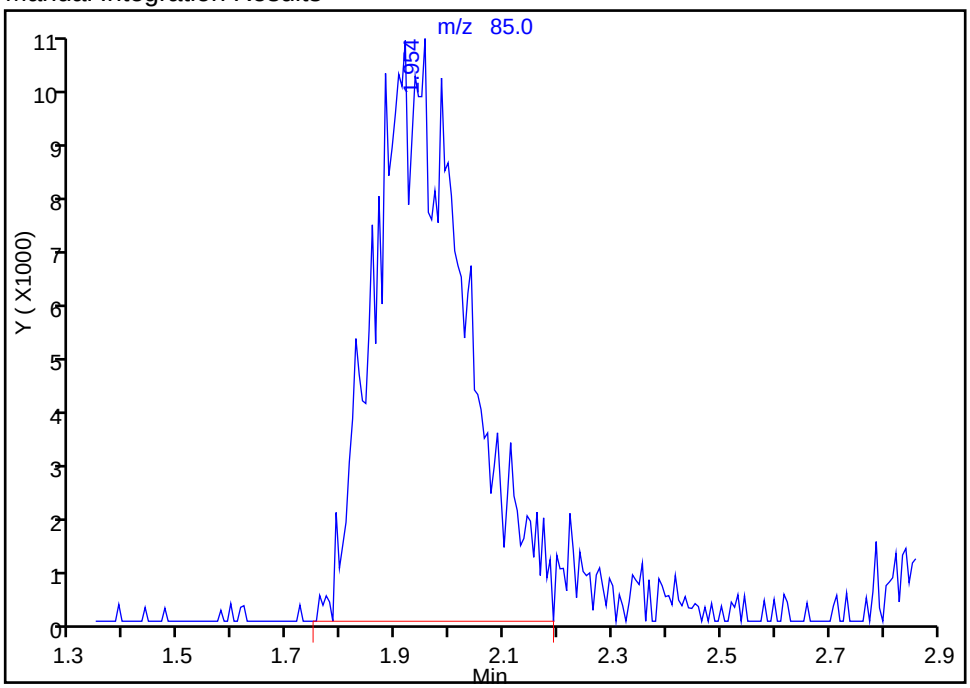
Processing Integration Results

RT: 1.95
Area: 107969
Amount: 131.9489
Amount Units: ng



Manual Integration Results

RT: 1.95
Area: 127416
Amount: 158.3323
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

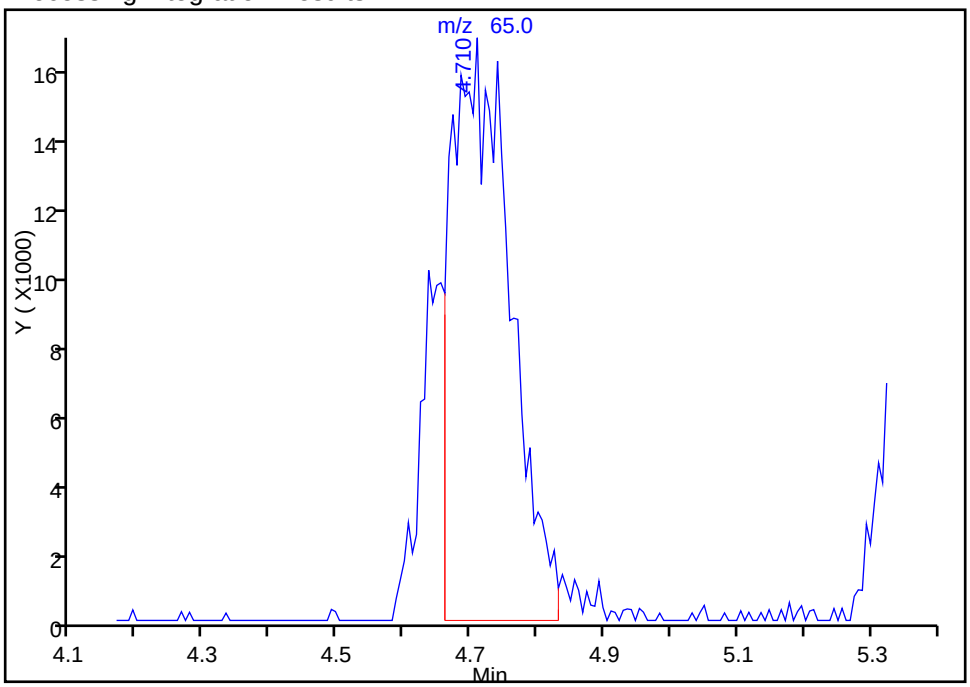
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D				
Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

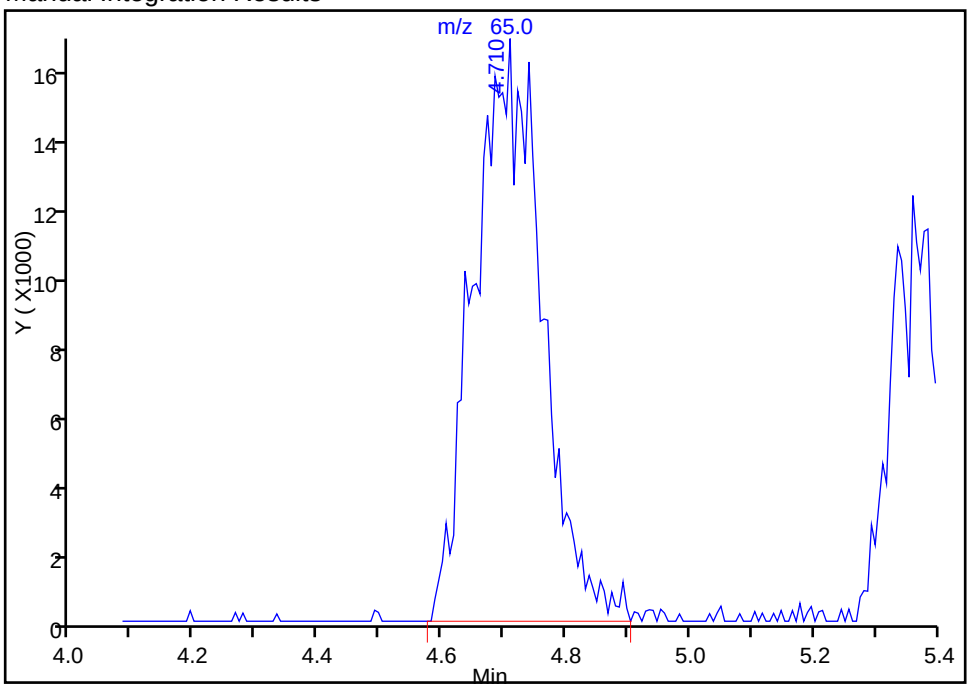
Processing Integration Results

RT: 4.71
Area: 100833
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.71
Area: 126072
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

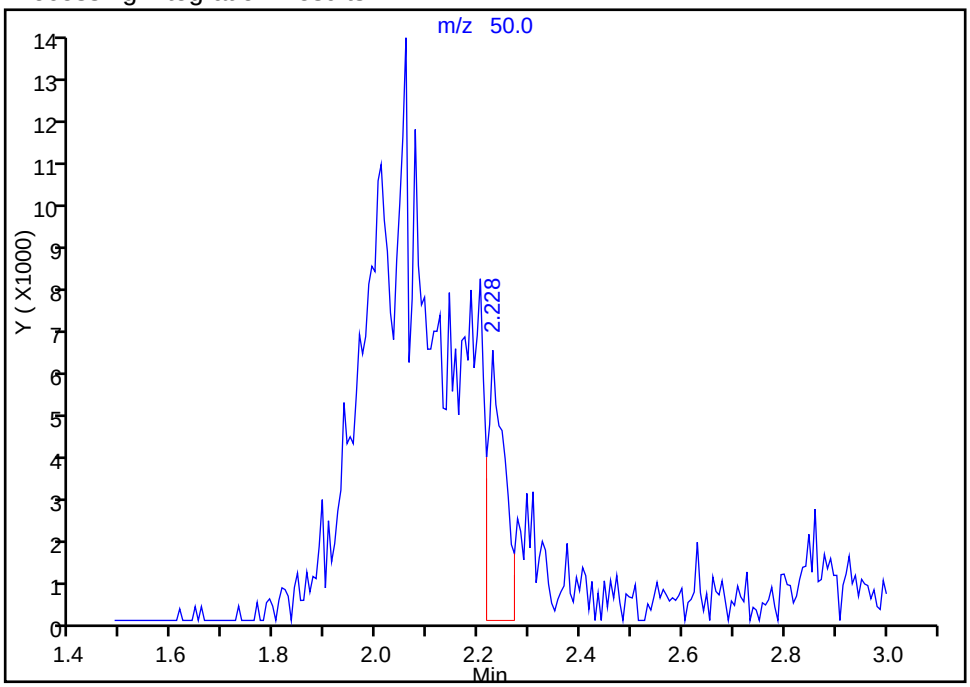
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D				
Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Chloromethane, CAS: 74-87-3

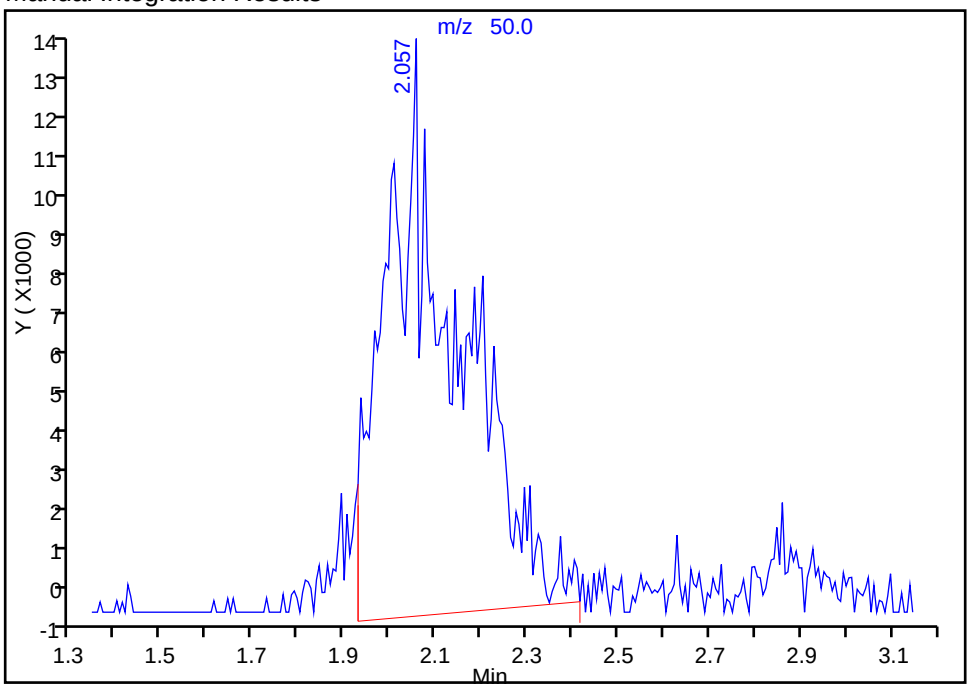
Processing Integration Results

RT: 2.23
Area: 13578
Amount: 28.911824
Amount Units: ng



Manual Integration Results

RT: 2.06
Area: 140738
Amount: 155.9022
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

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TestAmerica Pittsburgh

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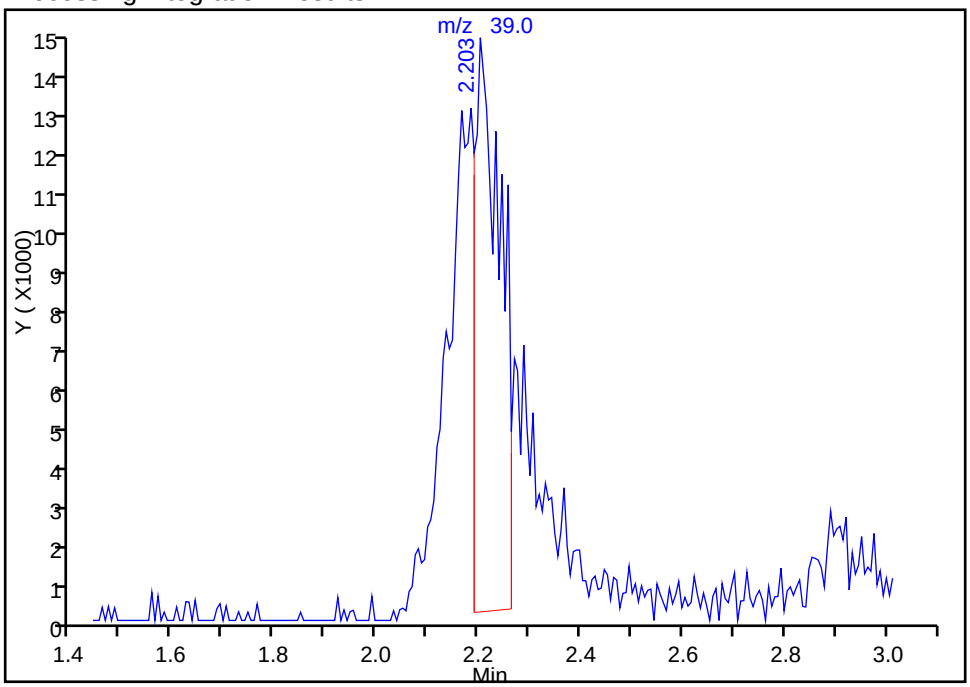
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

13 Butadiene, CAS: 106-99-0

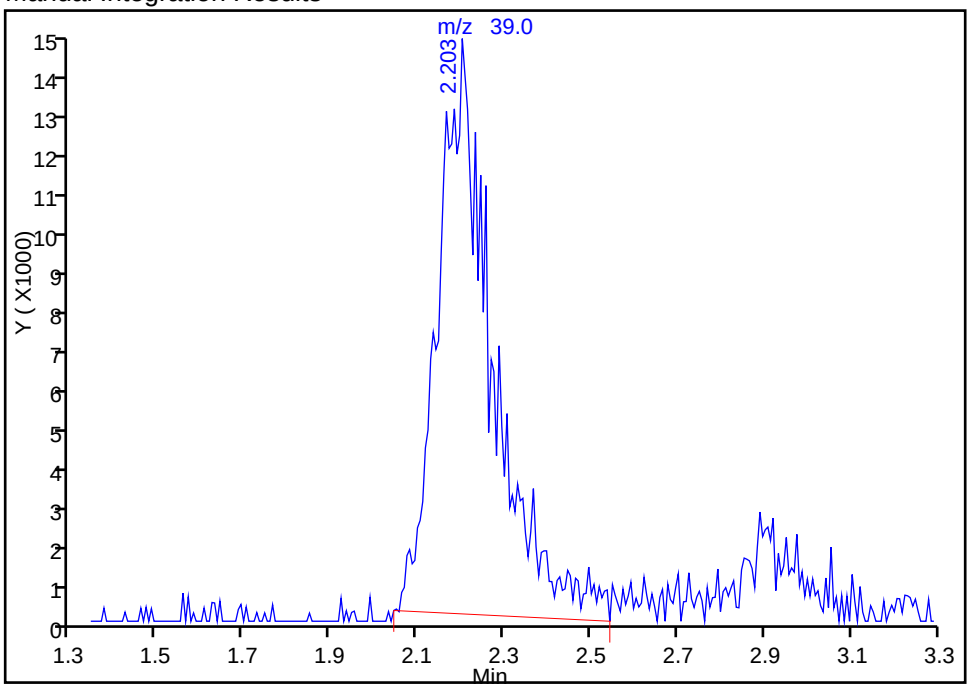
Processing Integration Results

RT: 2.20
Area: 50483
Amount: 62.164605
Amount Units: ng



Manual Integration Results

RT: 2.20
Area: 126943
Amount: 156.3172
Amount Units: ng



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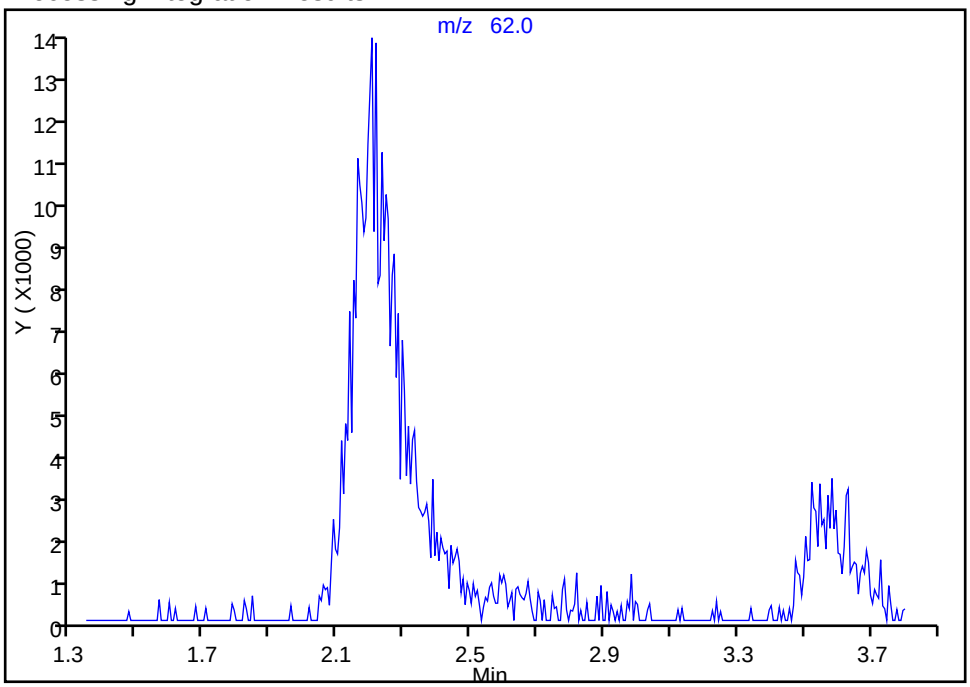
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

12 Vinyl chloride, CAS: 75-01-4

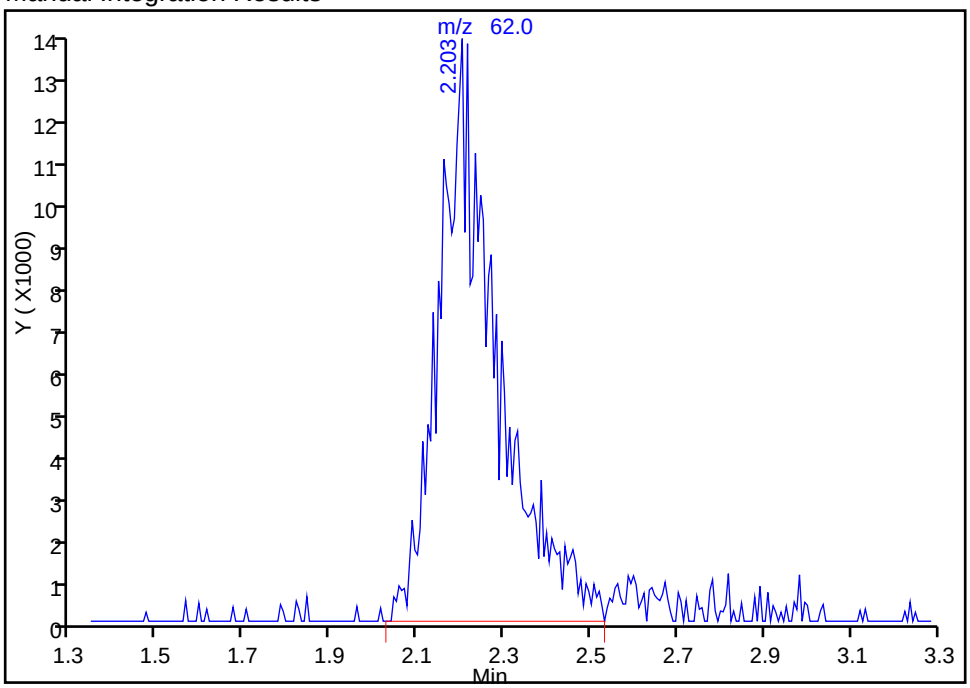
Not Detected
Expected RT: 2.20

Processing Integration Results



Manual Integration Results

RT: 2.20
Area: 121315
Amount: 166.2674
Amount Units: ng



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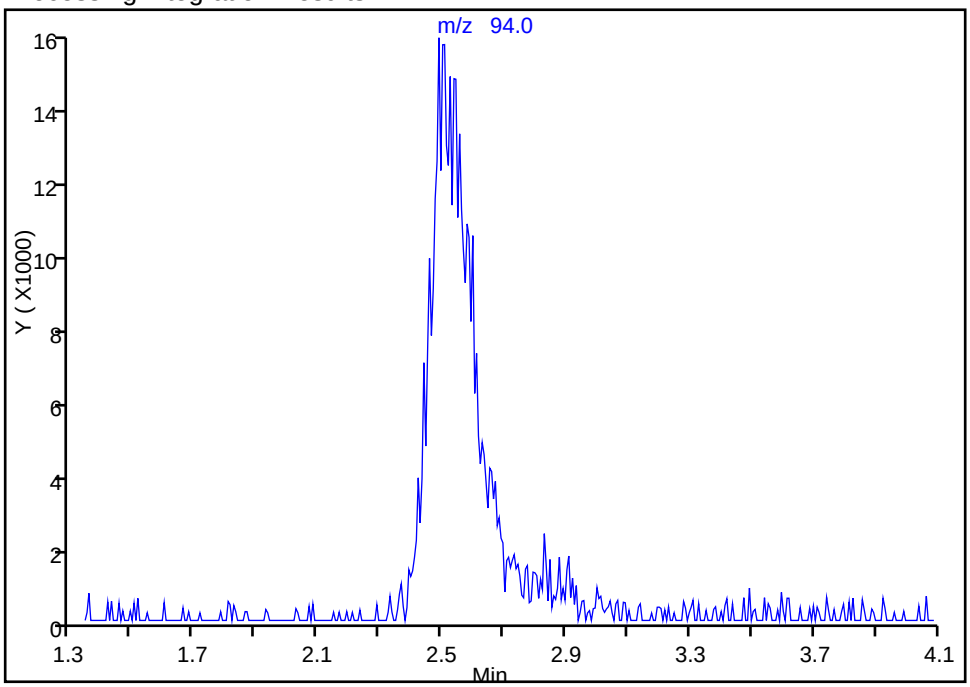
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

14 Bromomethane, CAS: 74-83-9

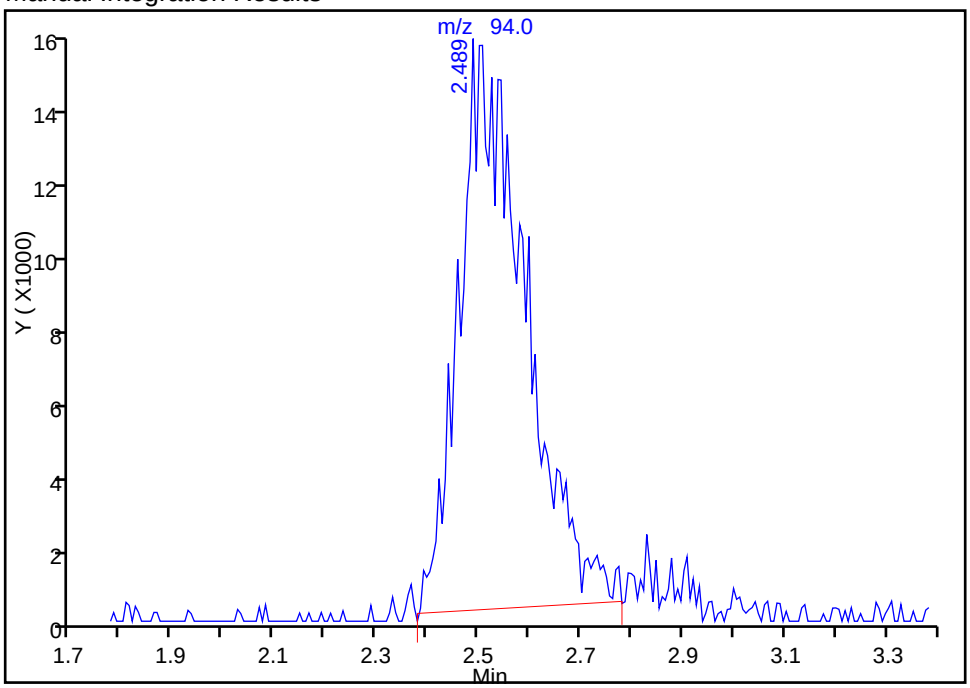
Not Detected
Expected RT: 2.49

Processing Integration Results



Manual Integration Results

RT: 2.49
Area: 139613
Amount: 241.7431
Amount Units: ng



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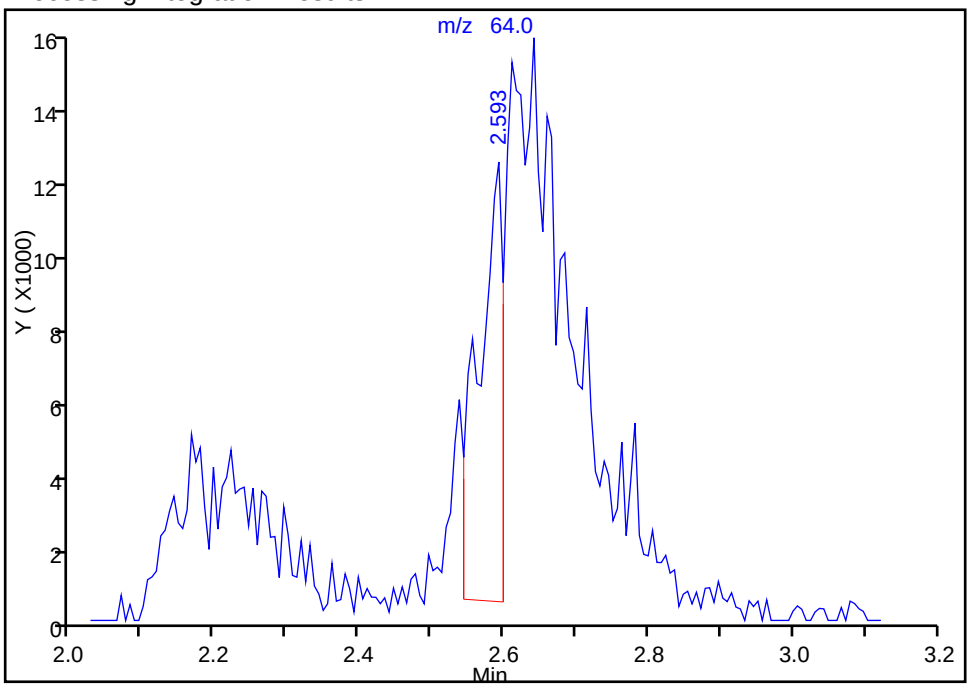
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

15 Chloroethane, CAS: 75-00-3

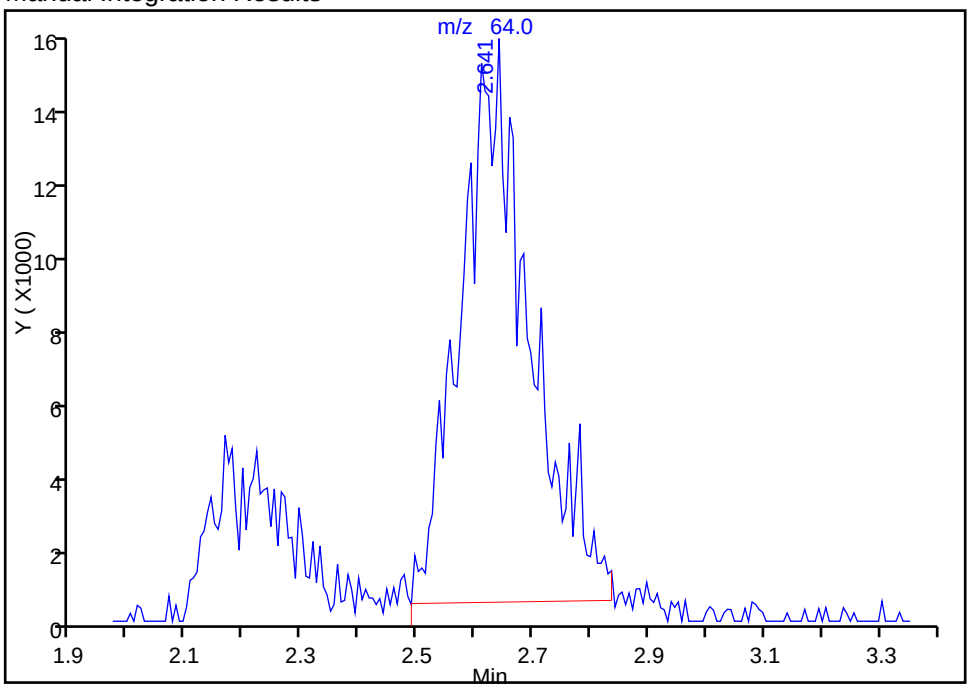
Processing Integration Results

RT: 2.59
Area: 26890
Amount: 57.608629
Amount Units: ng



Manual Integration Results

RT: 2.64
Area: 121127
Amount: 208.4811
Amount Units: ng



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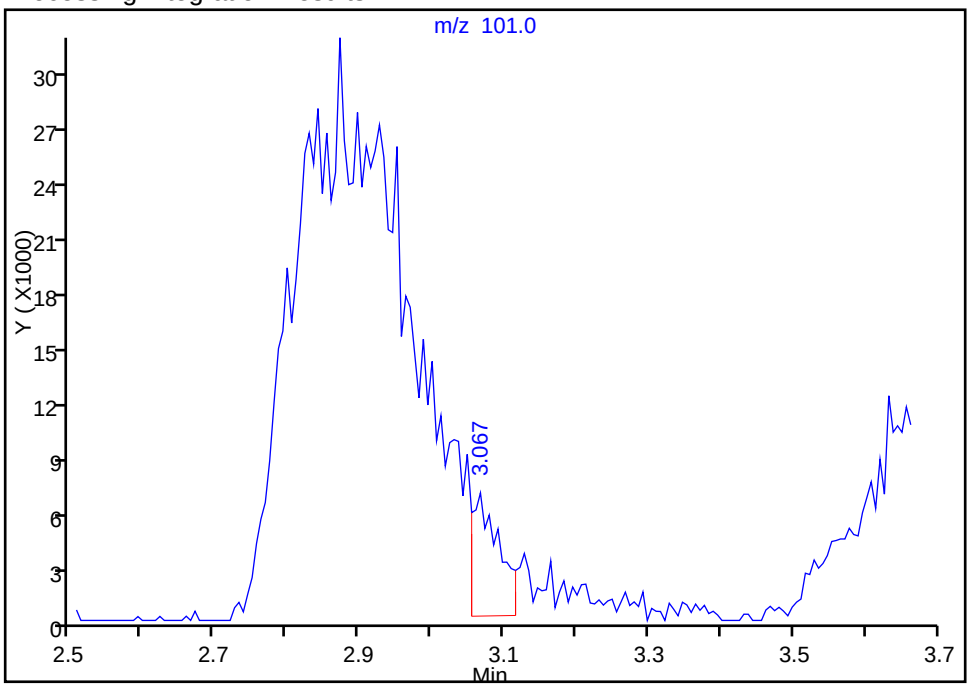
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

16 Trichlorofluoromethane, CAS: 75-69-4

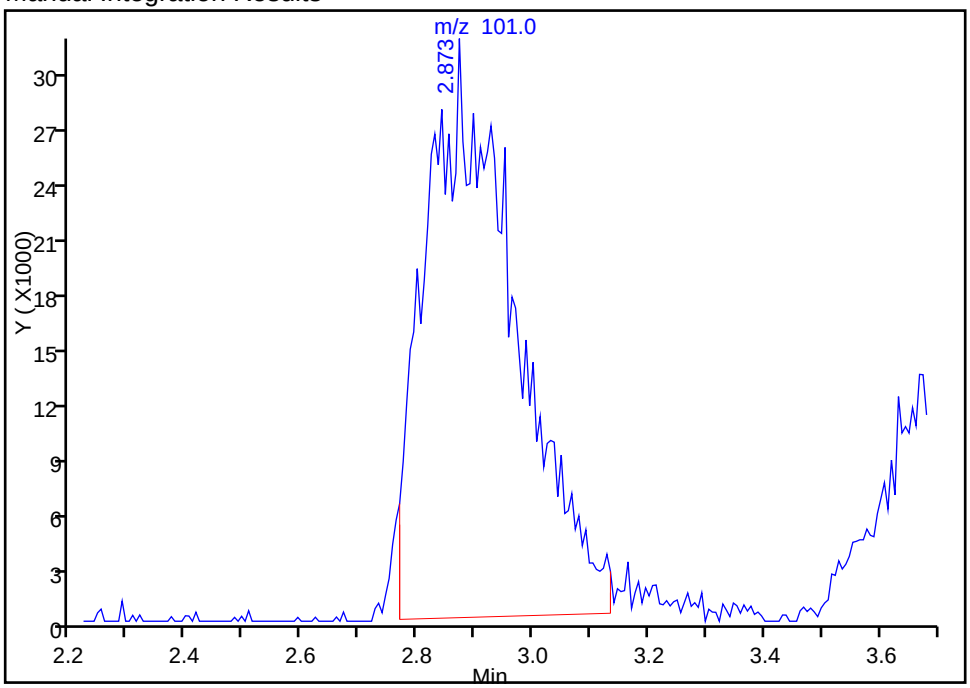
Processing Integration Results

RT: 3.07
Area: 17191
Amount: 10.977408
Amount Units: ng



Manual Integration Results

RT: 2.87
Area: 332183
Amount: 212.1173
Amount Units: ng



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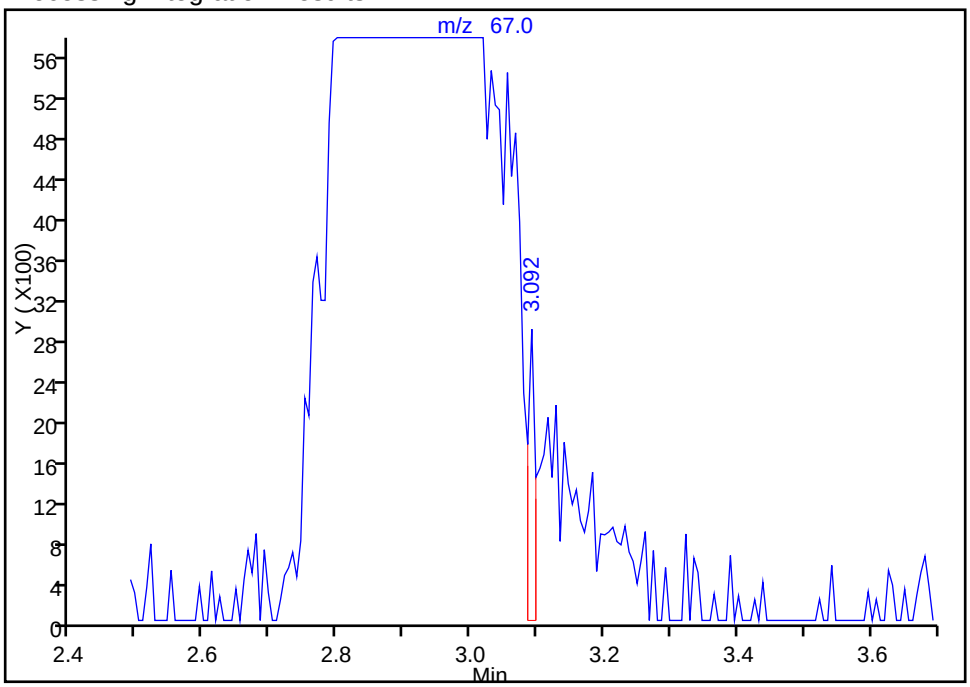
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

17 Dichlorofluoromethane, CAS: 75-43-4

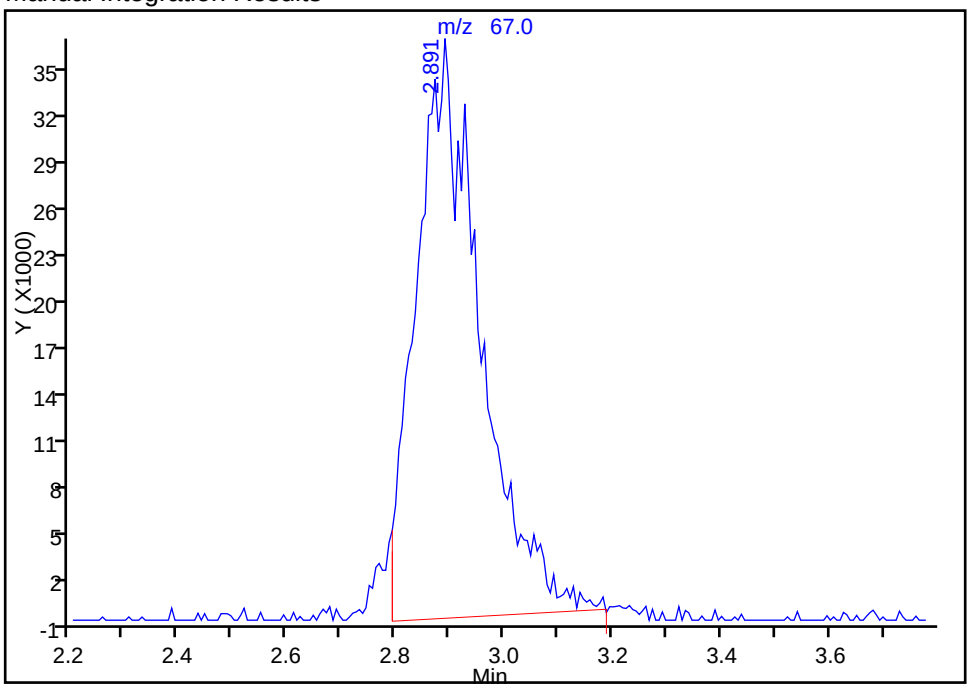
Processing Integration Results

RT: 3.09
Area: 2203
Amount: 1.401950
Amount Units: ng



Manual Integration Results

RT: 2.89
Area: 301155
Amount: 191.6496
Amount Units: ng



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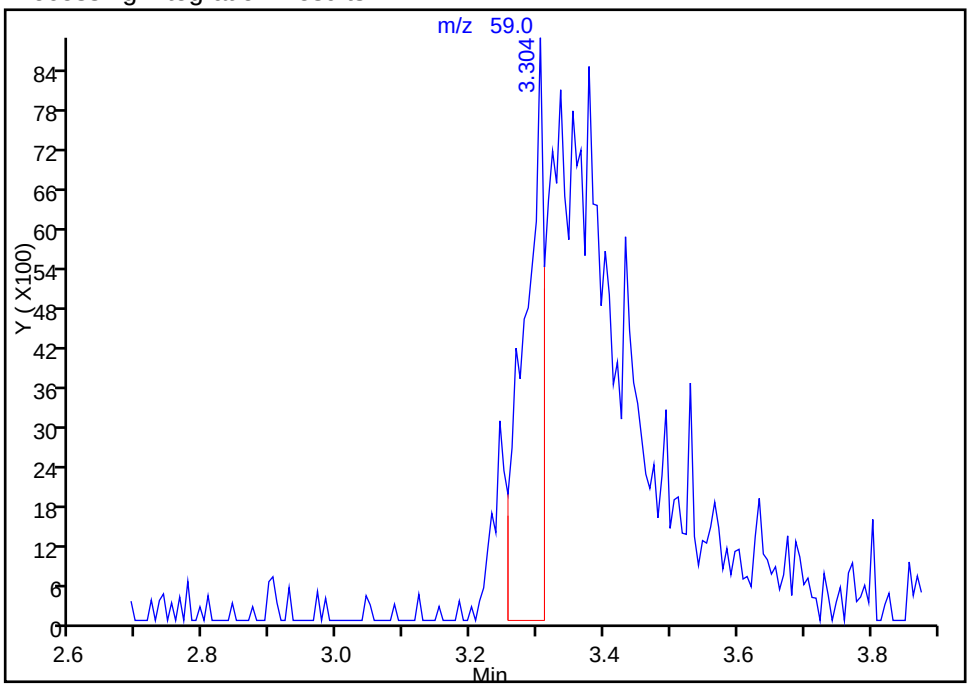
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

18 Ethyl ether, CAS: 60-29-7

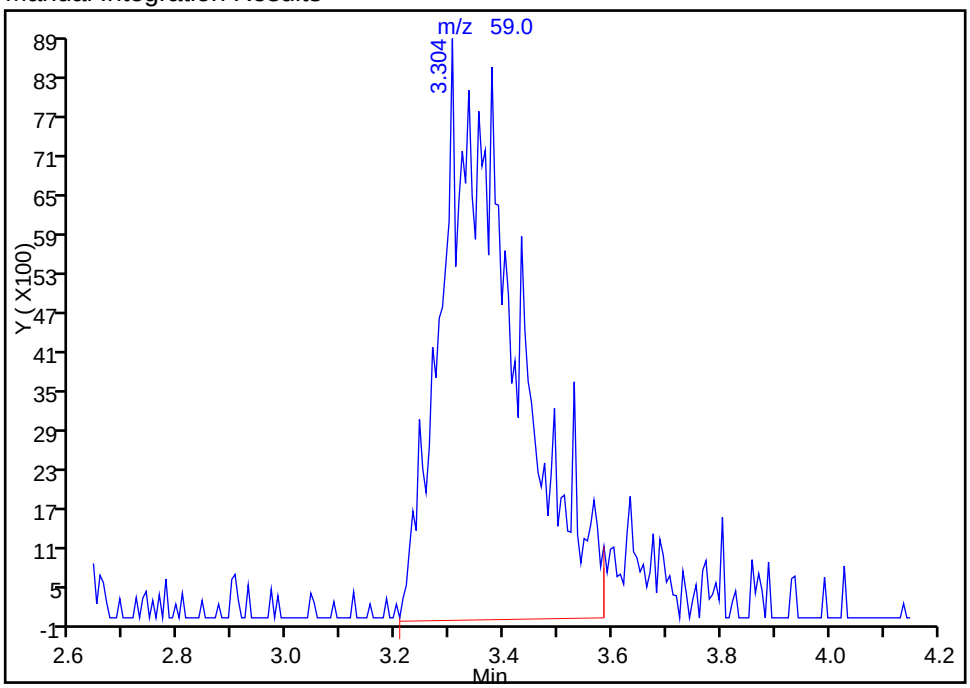
Processing Integration Results

RT: 3.30
Area: 17260
Amount: 36.942291
Amount Units: ng



Manual Integration Results

RT: 3.30
Area: 83704
Amount: 179.1551
Amount Units: ng



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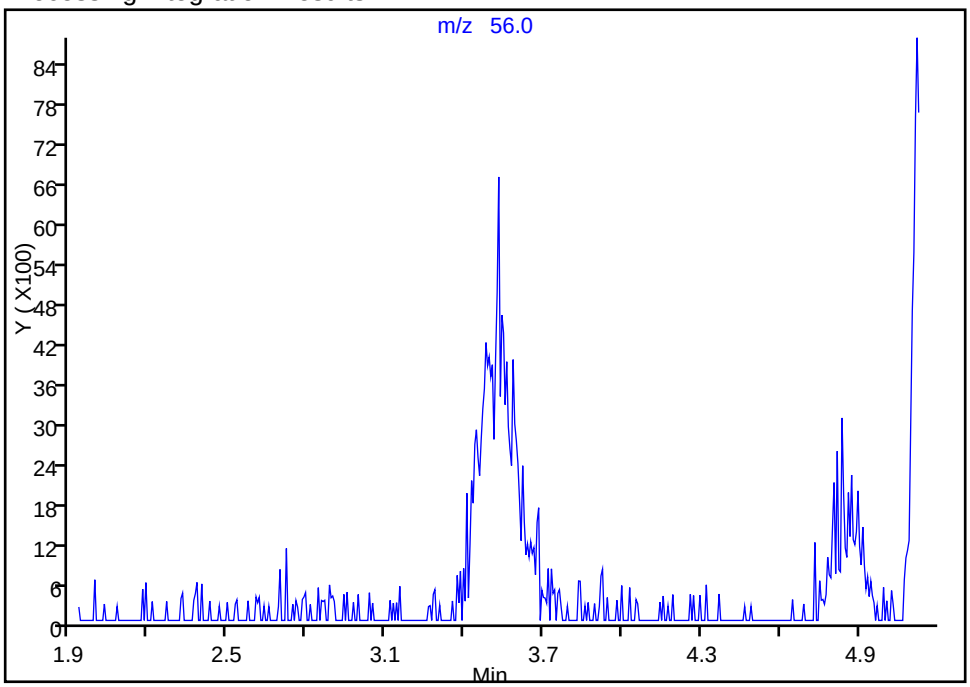
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

19 Acrolein, CAS: 107-02-8

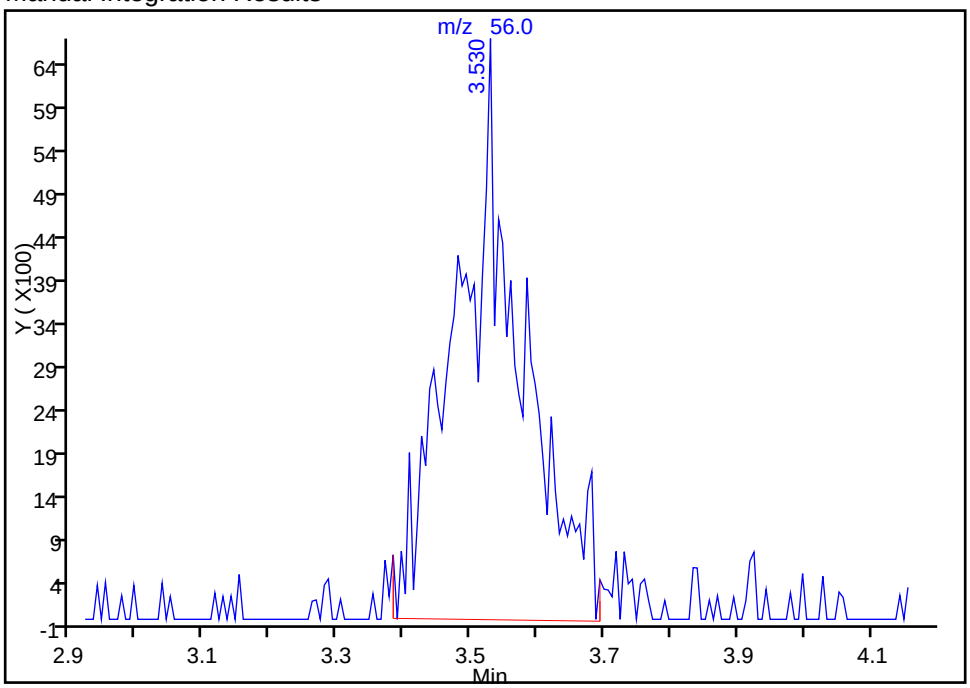
Not Detected
Expected RT: 3.53

Processing Integration Results



Manual Integration Results

RT: 3.53
Area: 44728
Amount: 748.9953
Amount Units: ng



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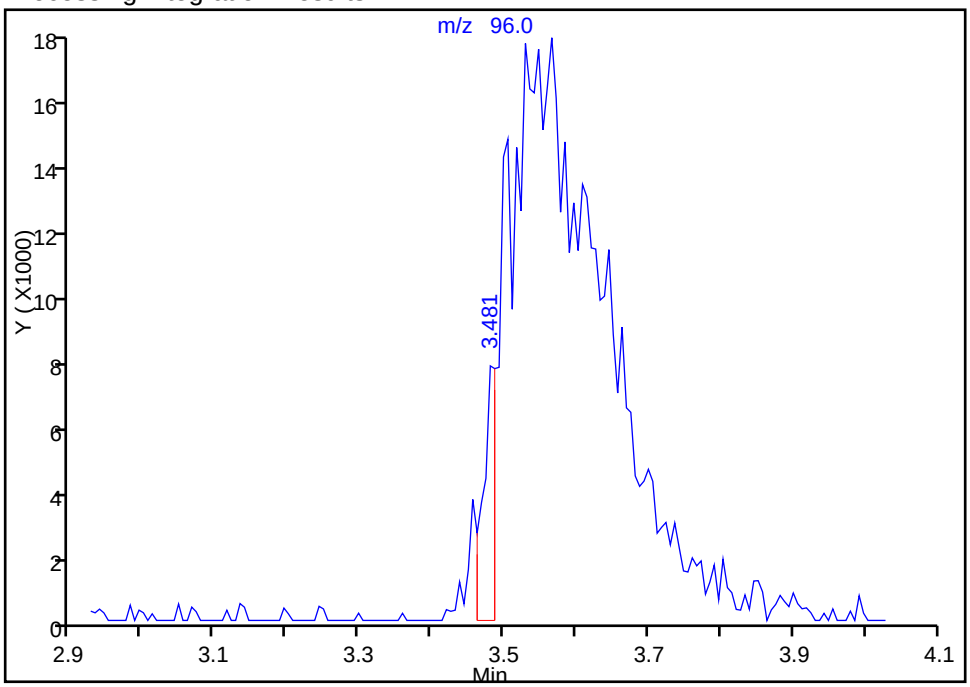
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

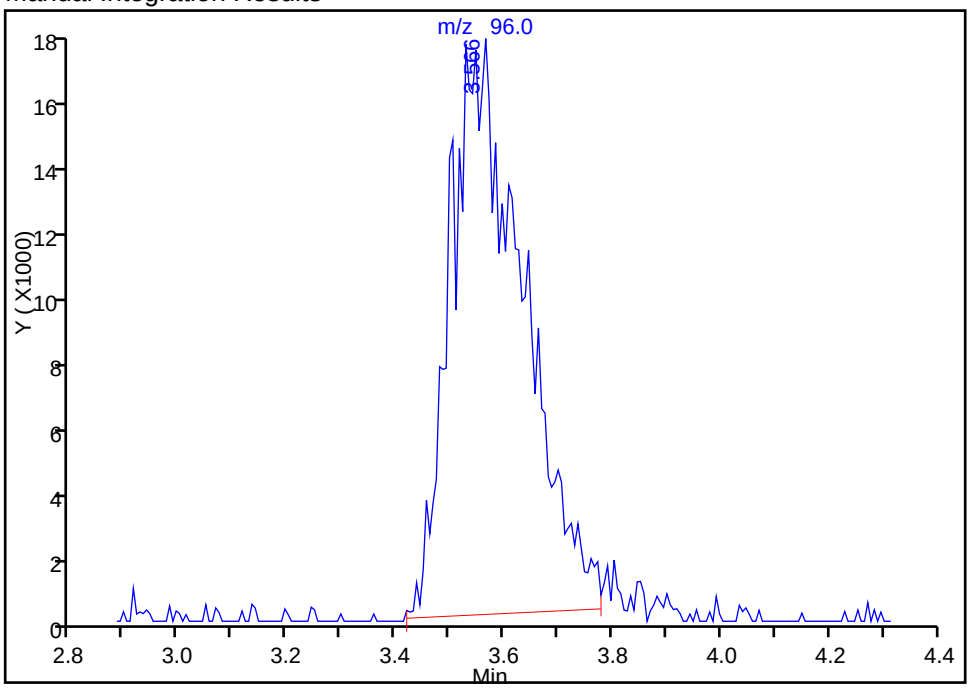
Processing Integration Results

RT: 3.48
Area: 9586
Amount: 11.822034
Amount Units: ng



Manual Integration Results

RT: 3.57
Area: 166126
Amount: 204.8766
Amount Units: ng



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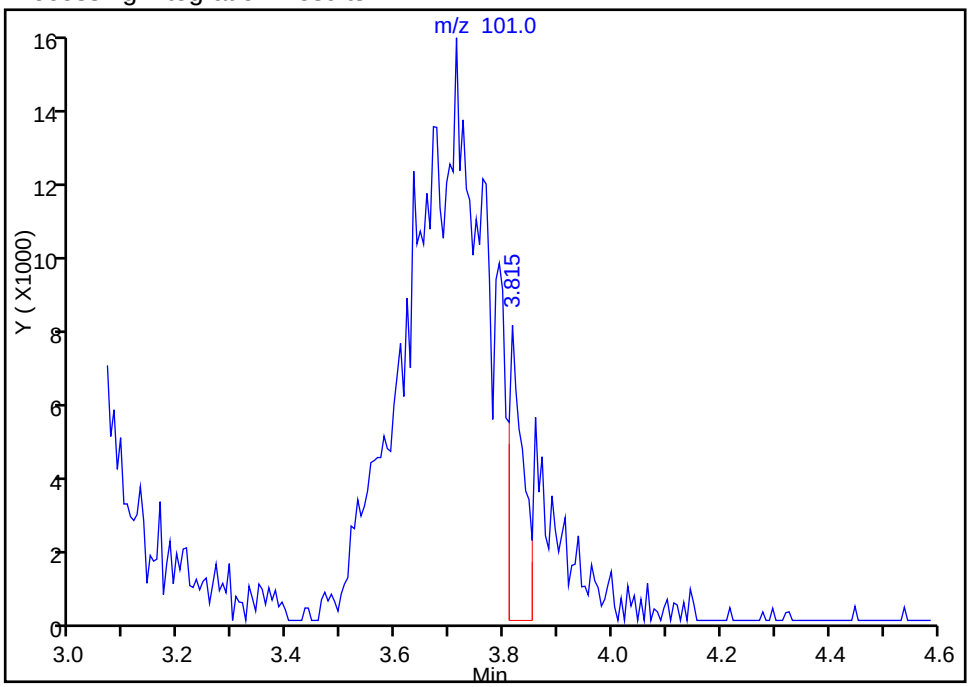
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

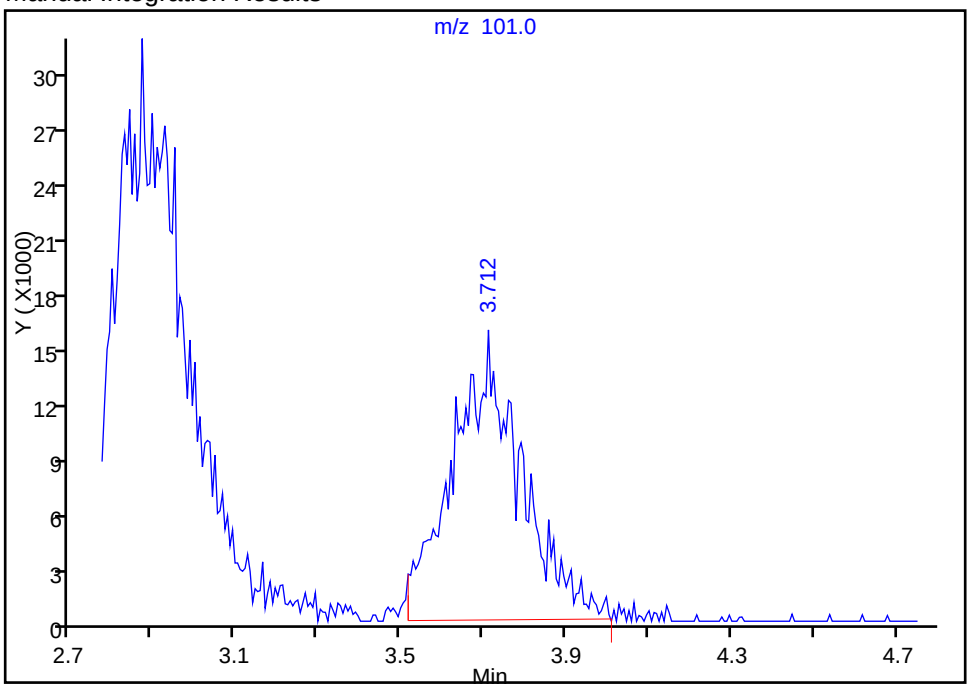
Processing Integration Results

RT: 3.82
Area: 13878
Amount: 14.415700
Amount Units: ng



Manual Integration Results

RT: 3.71
Area: 175829
Amount: 182.6415
Amount Units: ng



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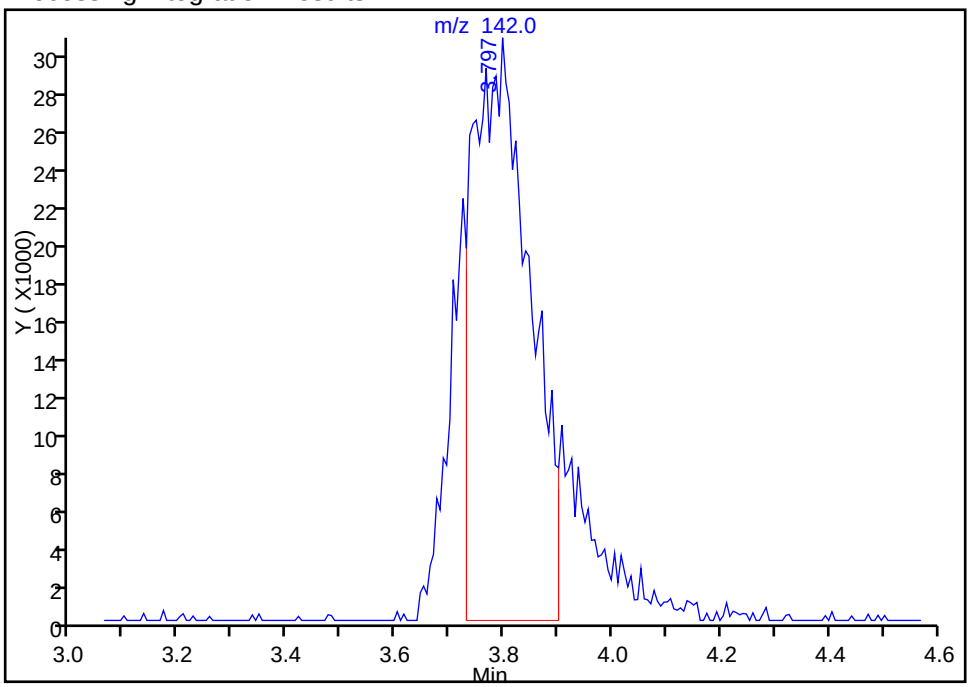
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

23 Iodomethane, CAS: 74-88-4

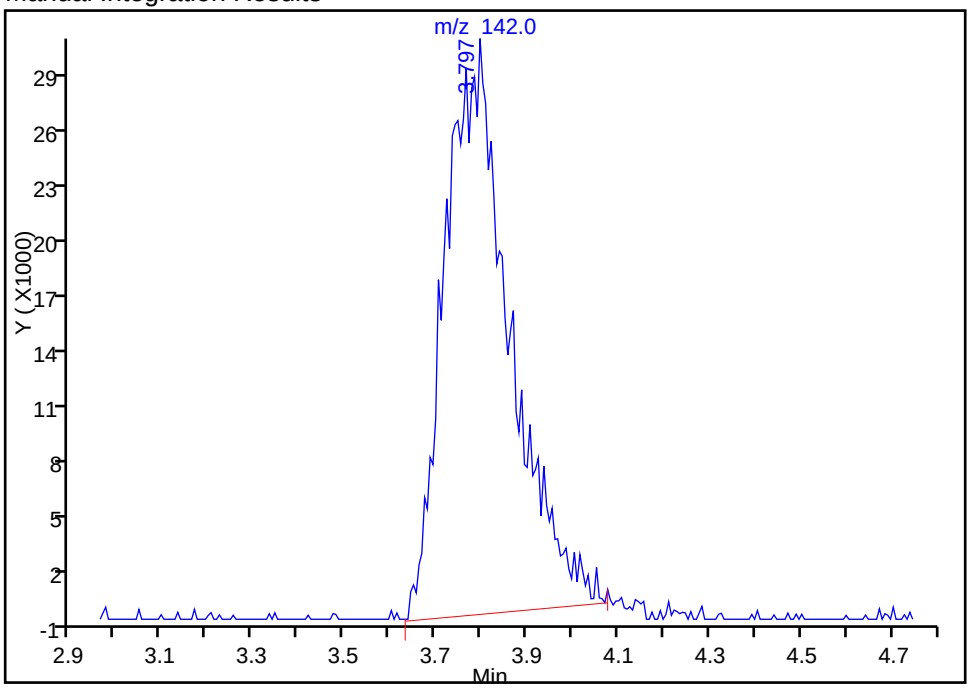
Processing Integration Results

RT: 3.80
Area: 221411
Amount: 143.6081
Amount Units: ng



Manual Integration Results

RT: 3.80
Area: 297842
Amount: 193.1816
Amount Units: ng



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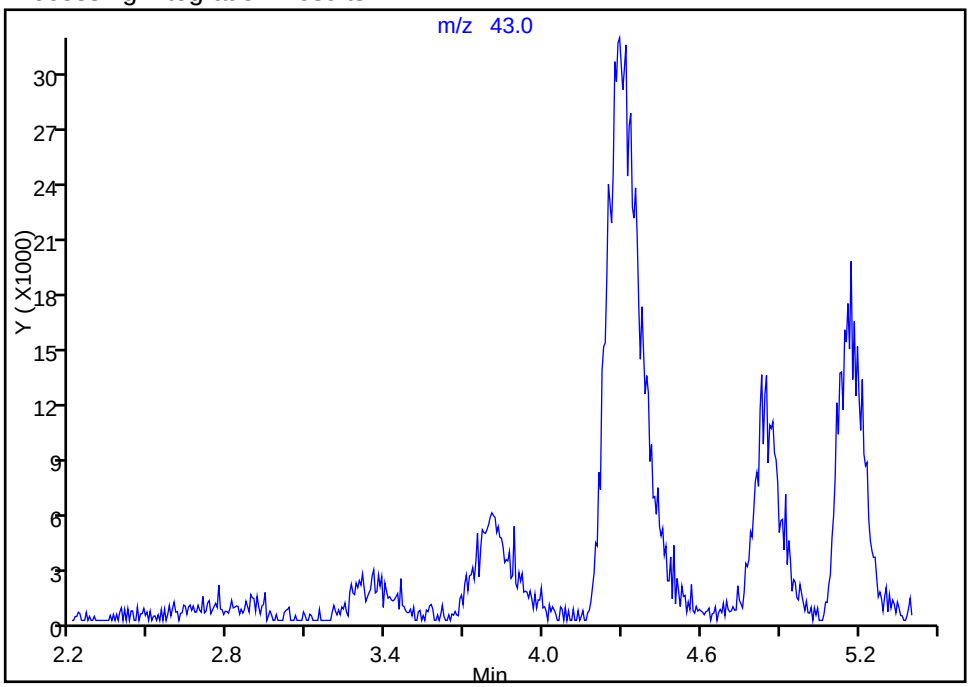
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

22 Acetone, CAS: 67-64-1

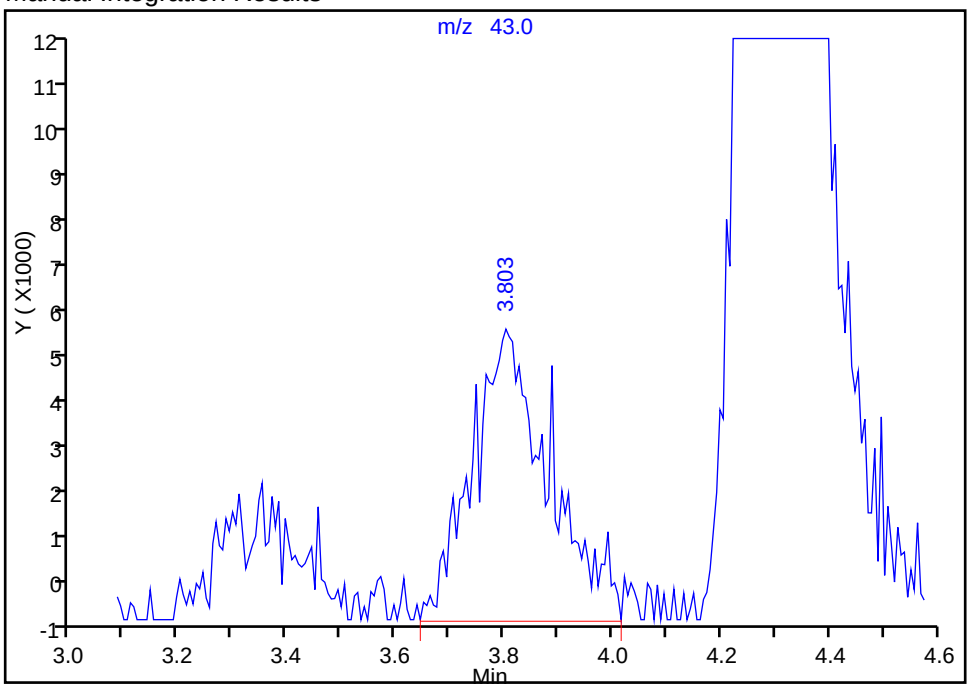
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 57351
Amount: 292.9323
Amount Units: ng



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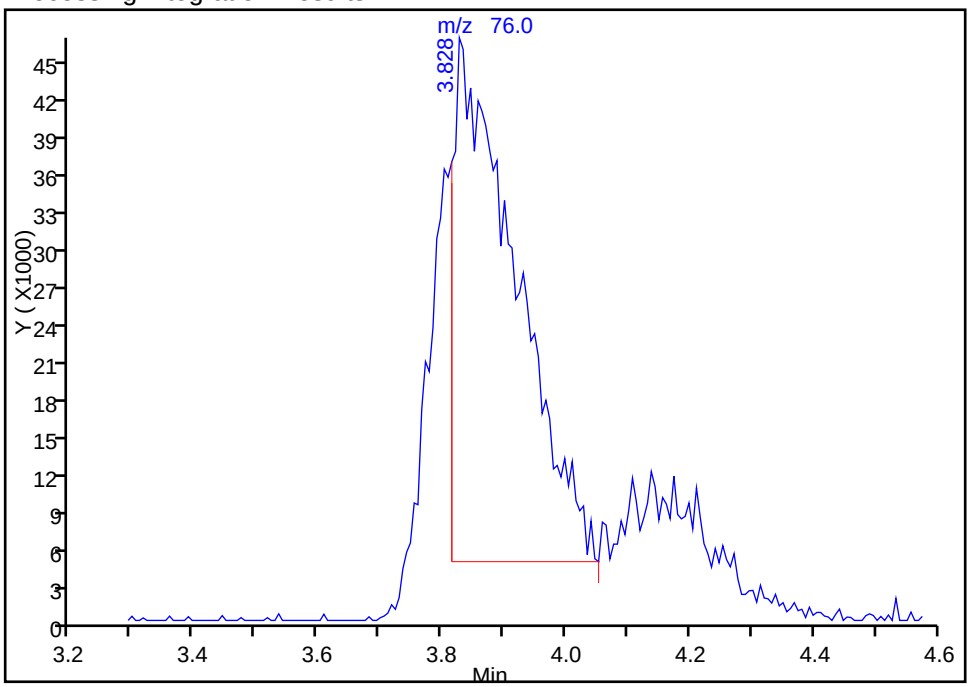
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

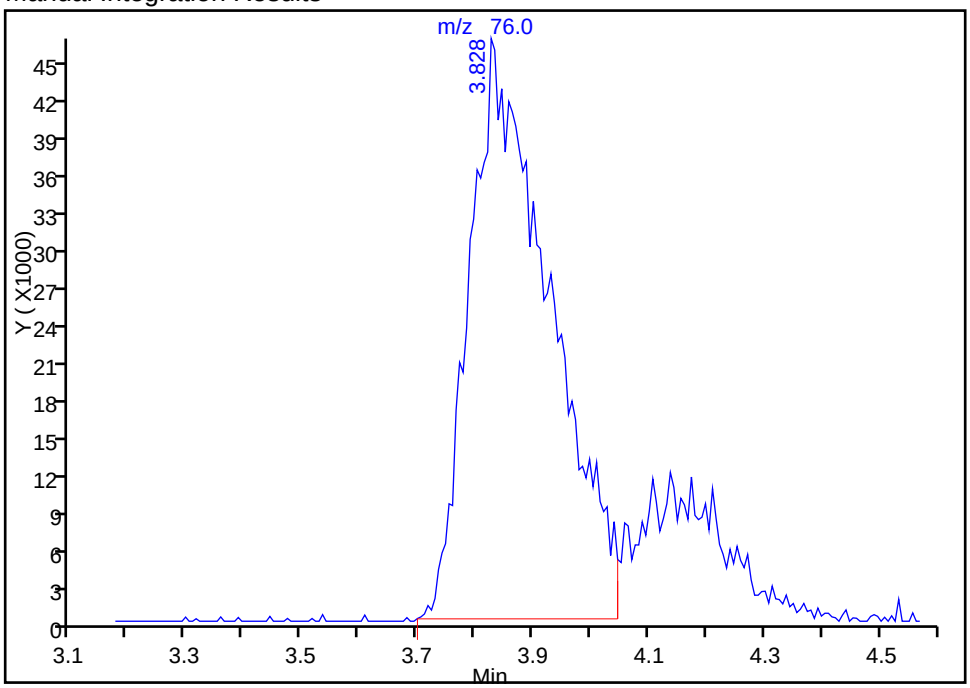
Processing Integration Results

RT: 3.83
Area: 291730
Amount: 113.3794
Amount Units: ng



Manual Integration Results

RT: 3.83
Area: 447651
Amount: 173.9774
Amount Units: ng



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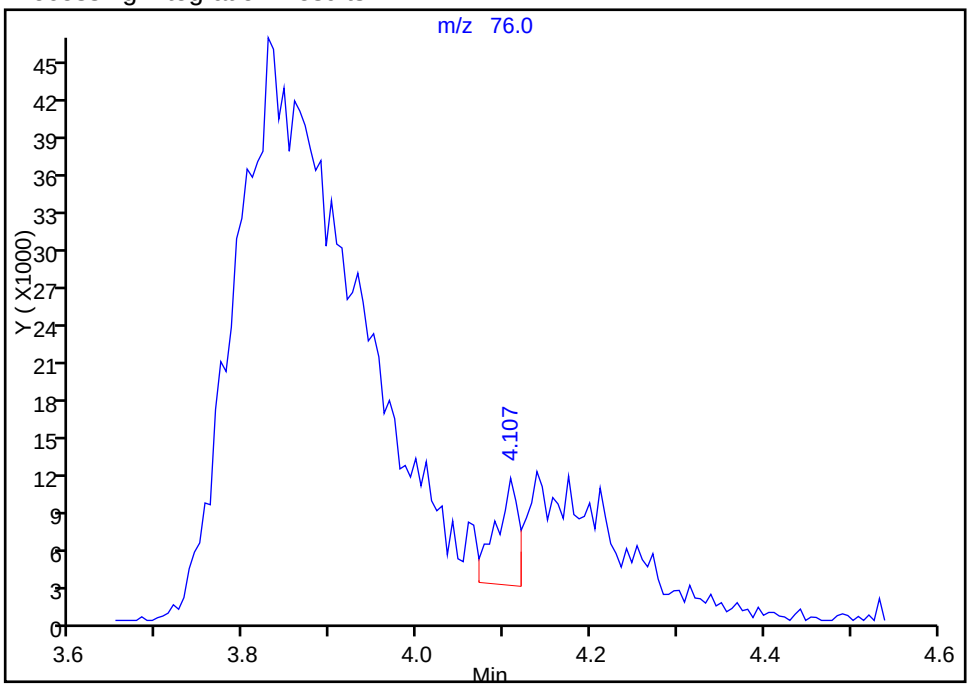
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

26 3-Chloro-1-propene, CAS: 107-05-1

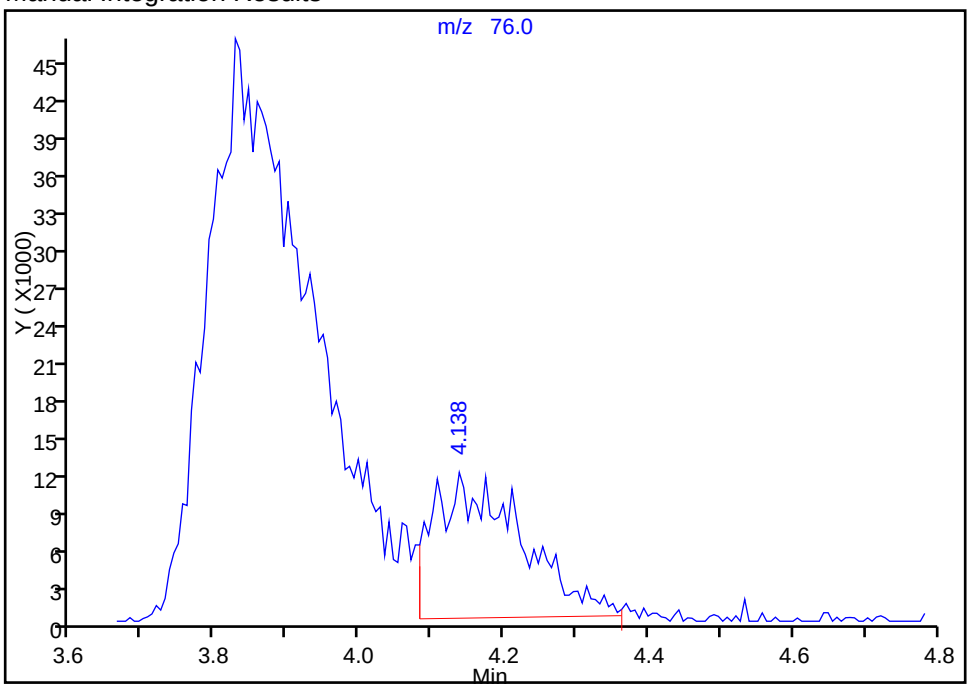
Processing Integration Results

RT: 4.11
Area: 15674
Amount: 28.569972
Amount Units: ng



Manual Integration Results

RT: 4.14
Area: 96664
Amount: 176.1955
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

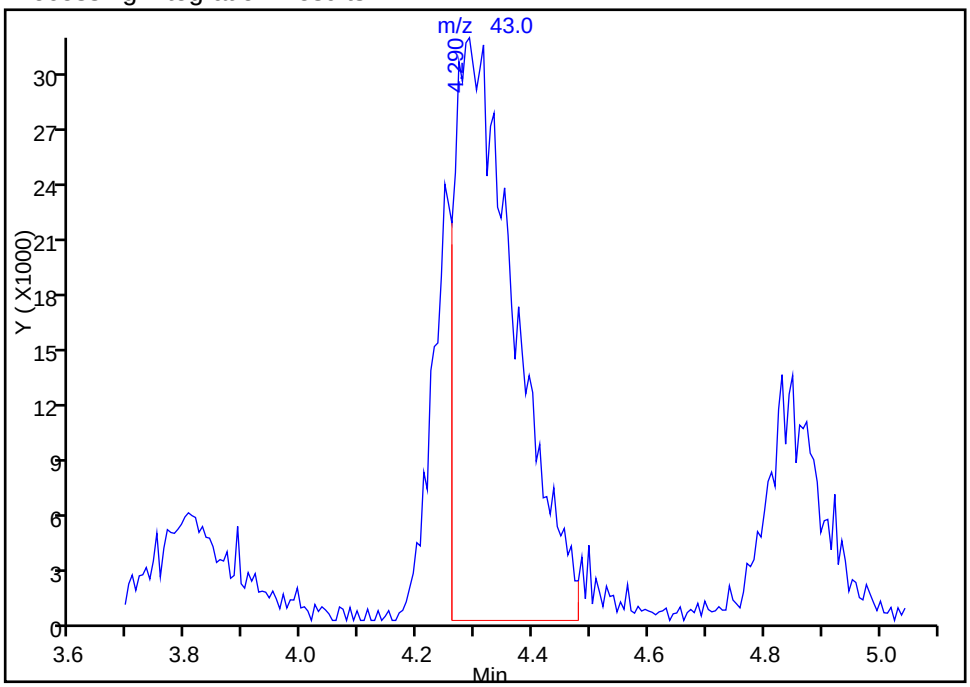
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D				
Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

28 Methyl acetate, CAS: 79-20-9

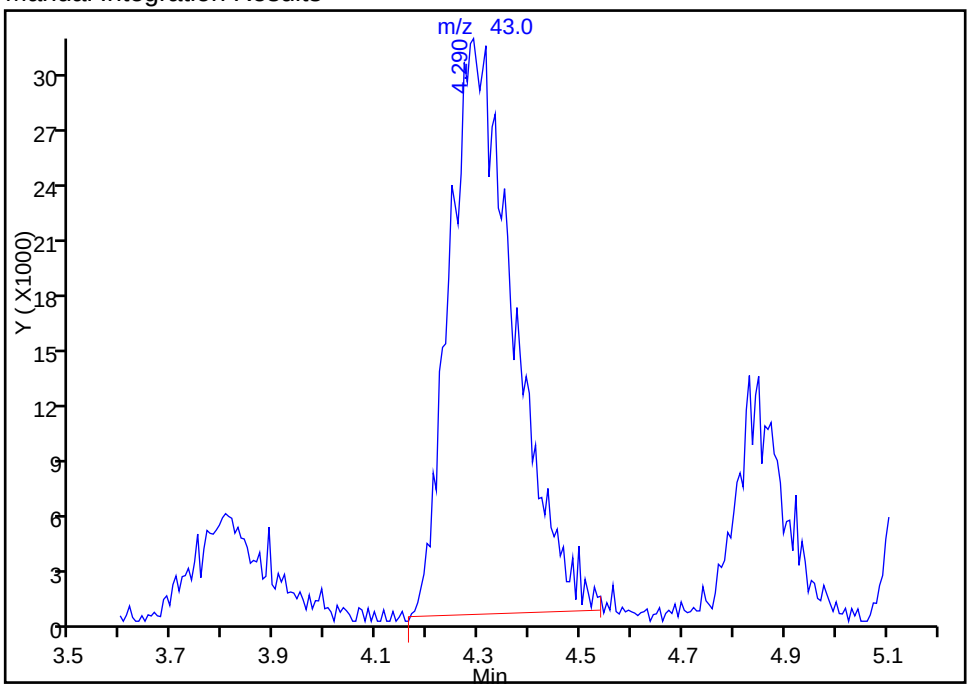
Processing Integration Results

RT: 4.29
Area: 226271
Amount: 796.6650
Amount Units: ng



Manual Integration Results

RT: 4.29
Area: 273168
Amount: 951.8081
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

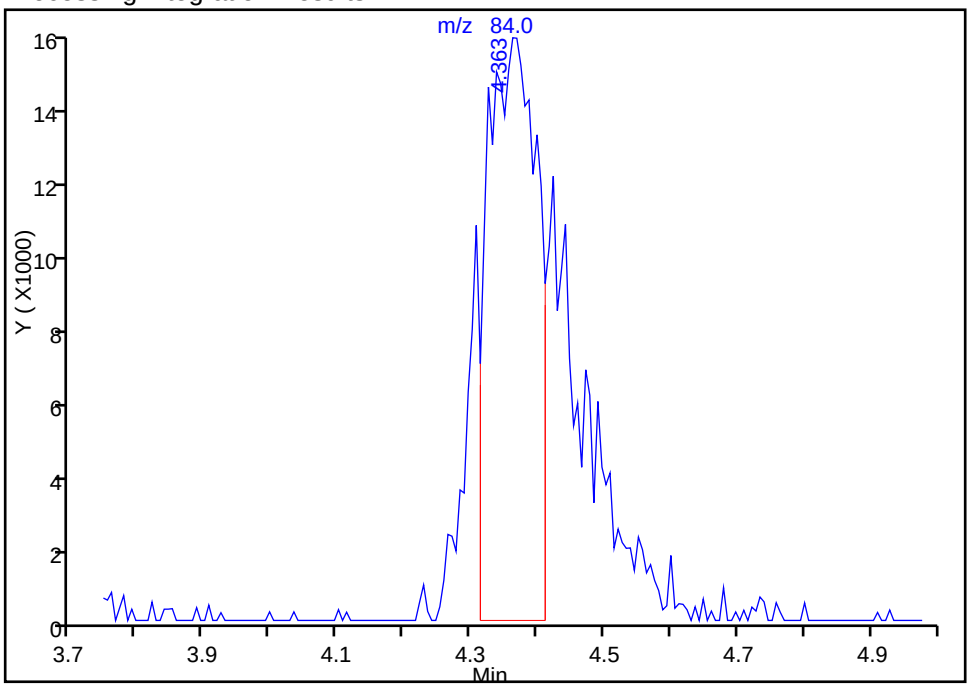
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D				
Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

29 Methylene Chloride, CAS: 75-09-2

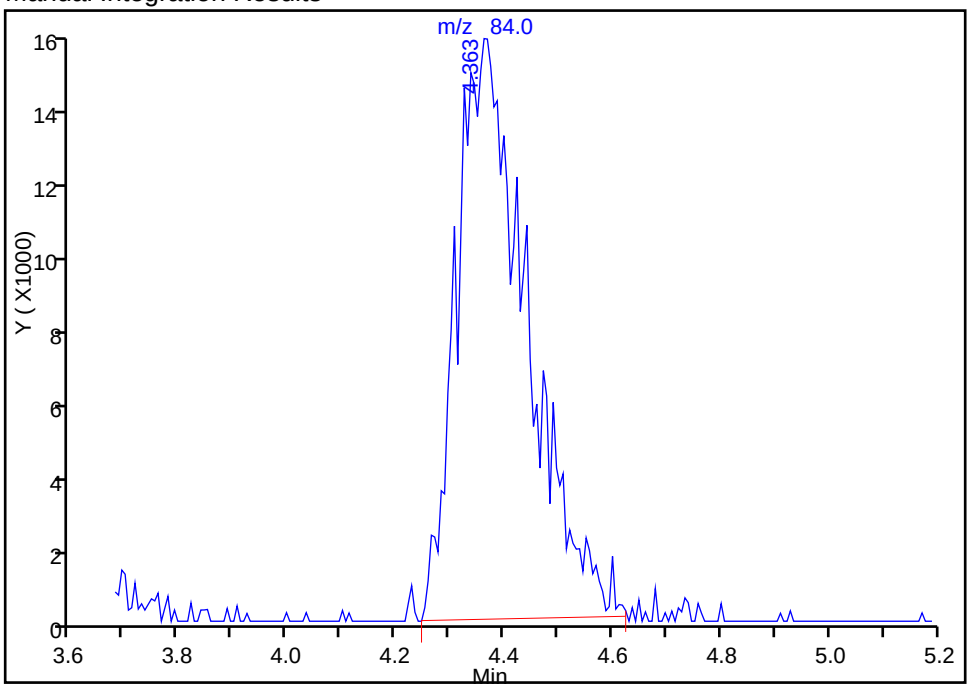
Processing Integration Results

RT: 4.36
Area: 79468
Amount: 99.477464
Amount Units: ng



Manual Integration Results

RT: 4.36
Area: 138630
Amount: 171.1965
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

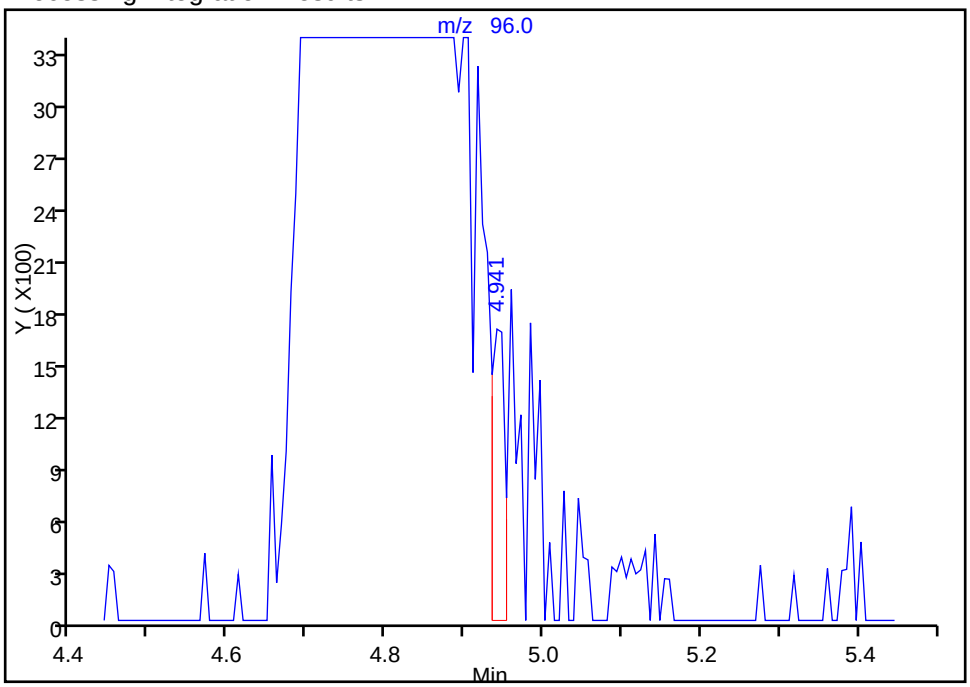
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D				
Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

30 trans-1,2-Dichloroethene, CAS: 156-60-5

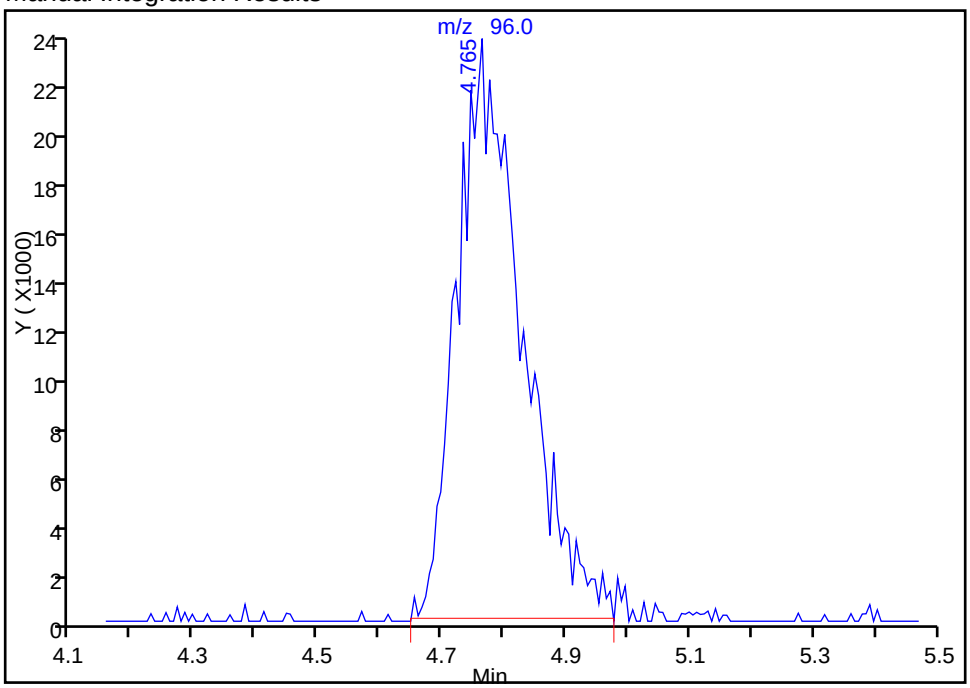
Processing Integration Results

RT: 4.94
Area: 2005
Amount: 2.315235
Amount Units: ng



Manual Integration Results

RT: 4.76
Area: 168977
Amount: 195.1229
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

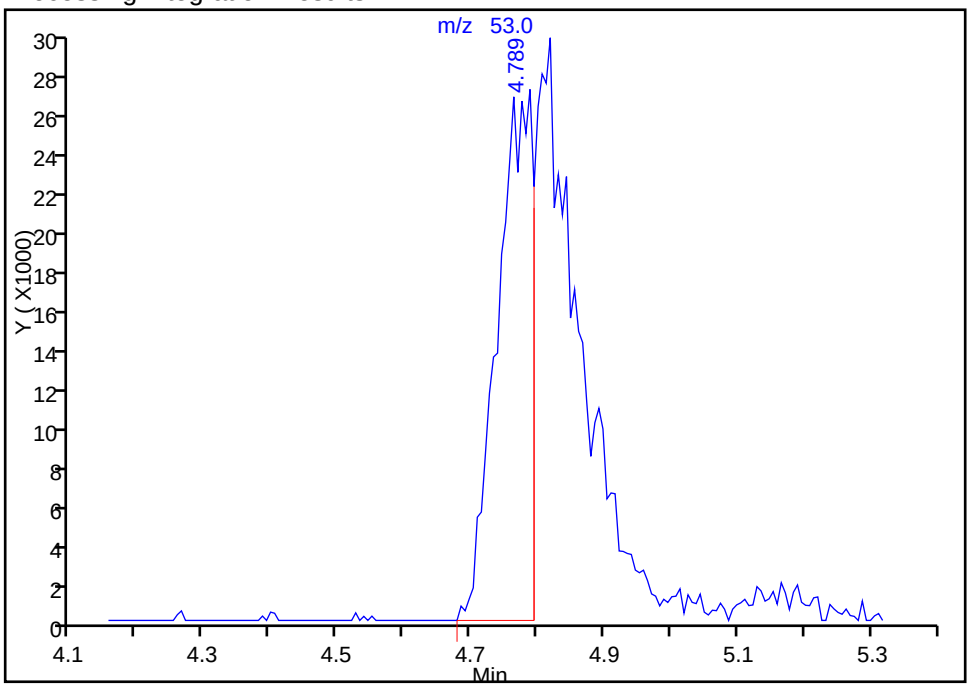
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D				
Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

31 Acrylonitrile, CAS: 107-13-1

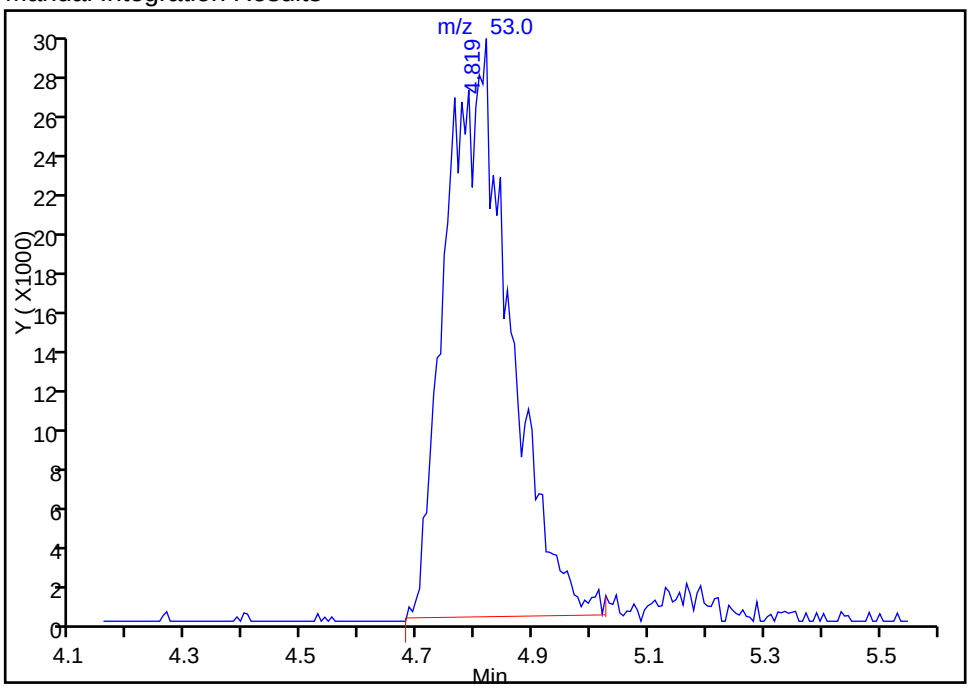
Processing Integration Results

RT: 4.79
Area: 99249
Amount: 798.7536
Amount Units: ng



Manual Integration Results

RT: 4.82
Area: 225460
Amount: 1814.4968
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

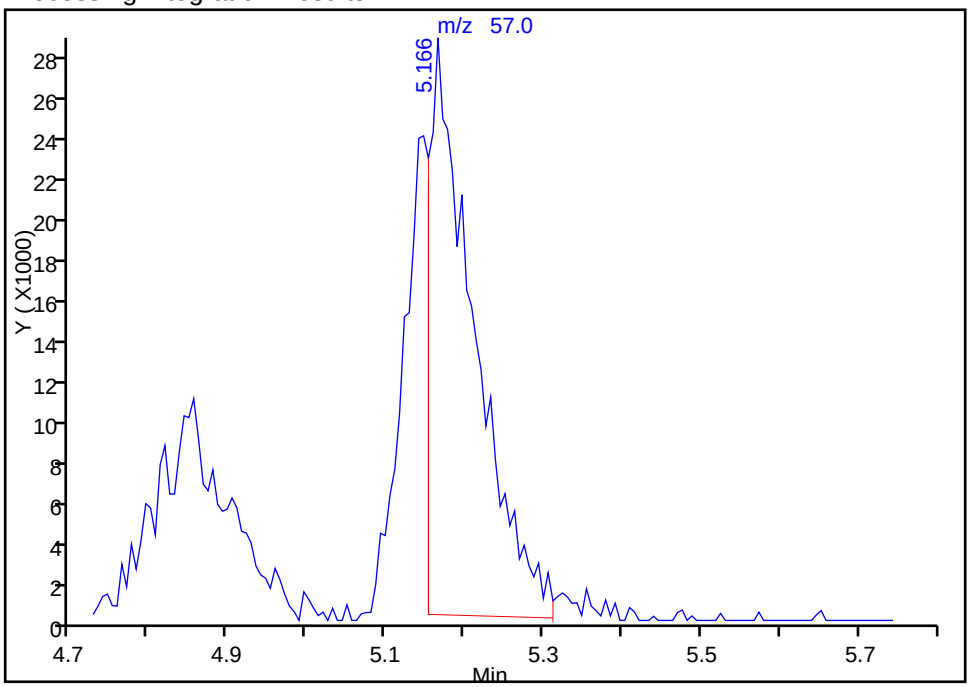
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D				
Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

34 Hexane, CAS: 110-54-3

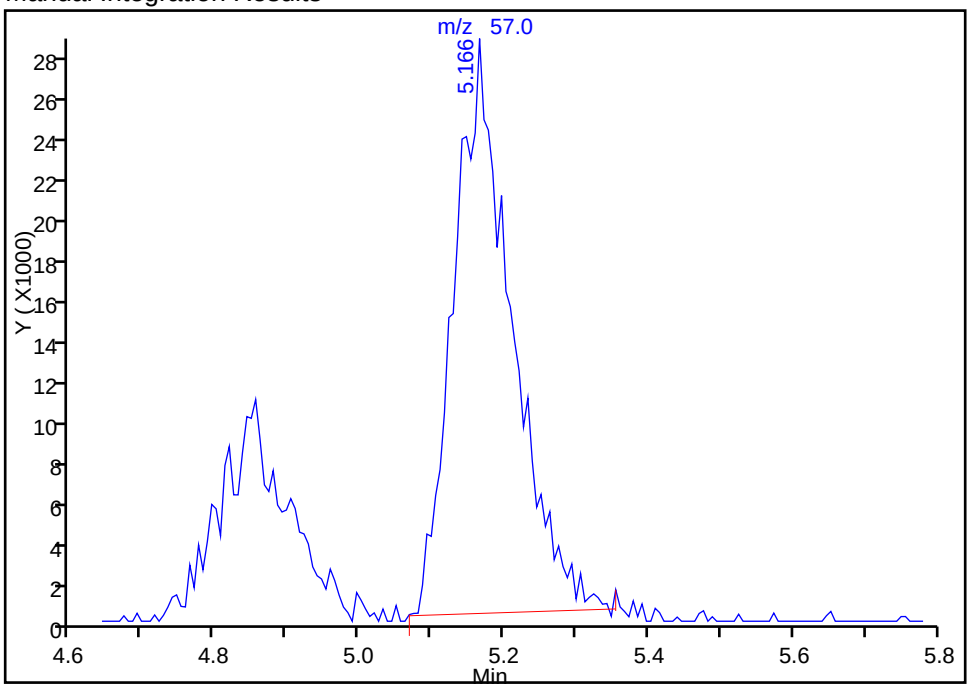
Processing Integration Results

RT: 5.17
Area: 110003
Amount: 111.1728
Amount Units: ng



Manual Integration Results

RT: 5.17
Area: 154303
Amount: 155.9439
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

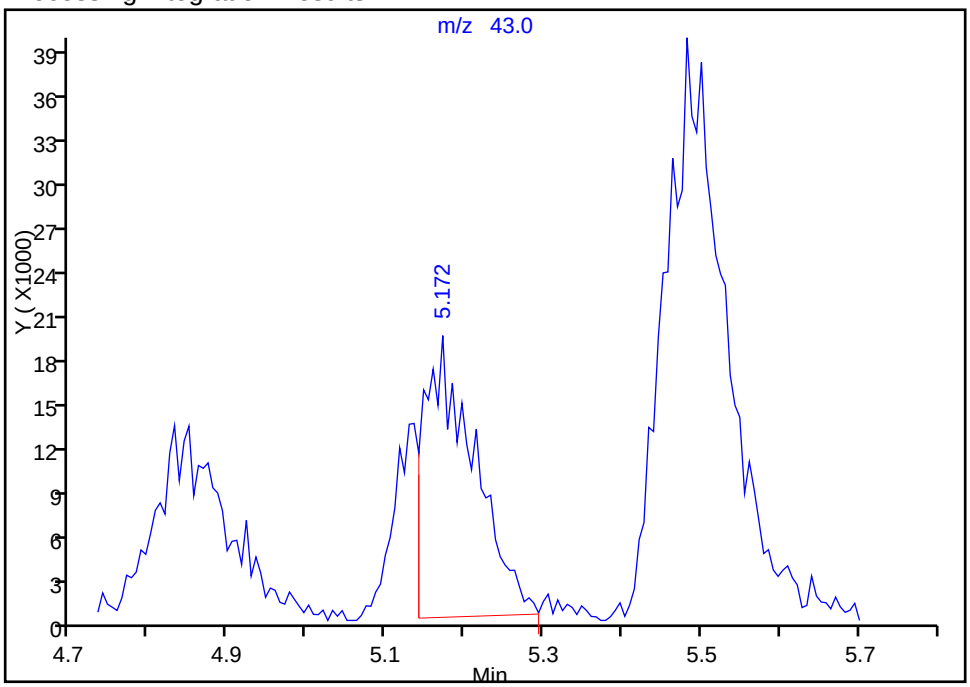
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D				
Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

35 Vinyl acetate, CAS: 108-05-4

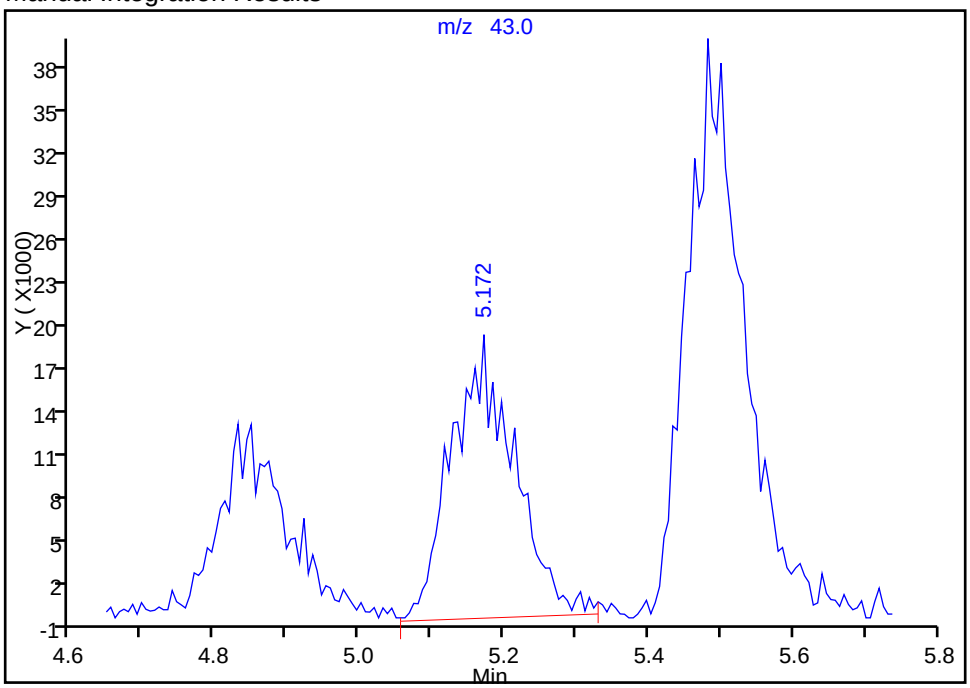
Processing Integration Results

RT: 5.17
Area: 83372
Amount: 138.1262
Amount Units: ng



Manual Integration Results

RT: 5.17
Area: 114764
Amount: 181.4856
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

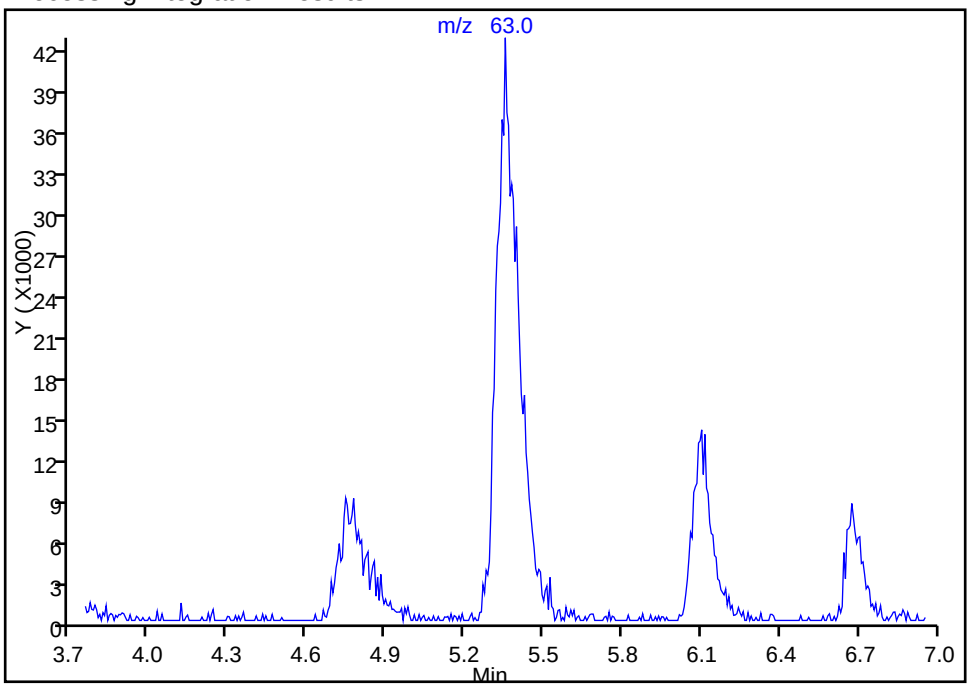
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D				
Injection Date:	08-May-2015 08:50:30	Instrument ID:	CHHP7		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	034635	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

36 1,1-Dichloroethane, CAS: 75-34-3

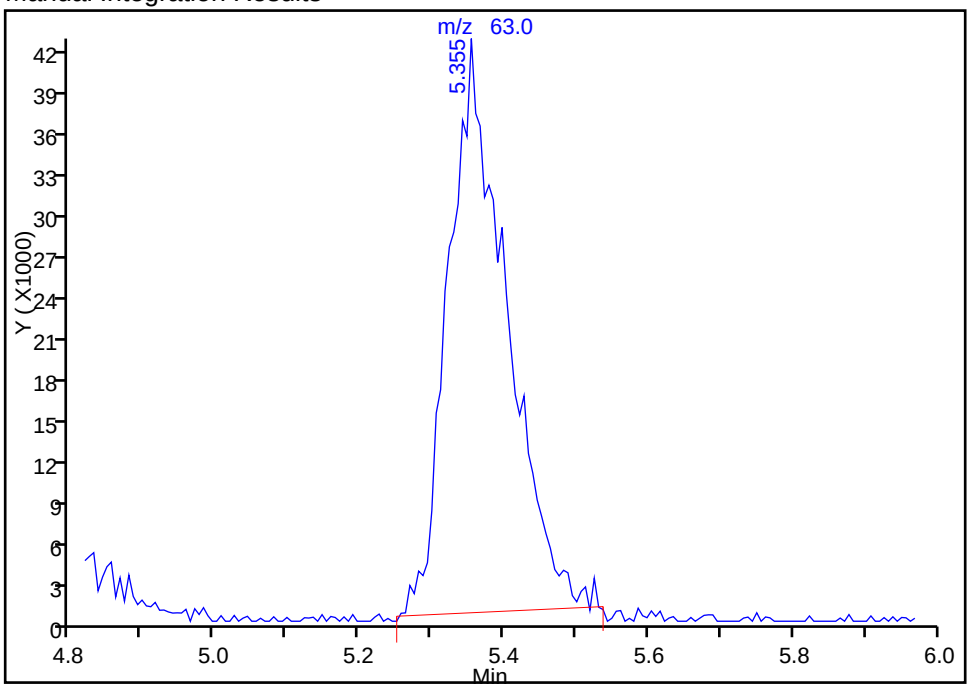
Not Detected
Expected RT: 5.35

Processing Integration Results



Manual Integration Results

RT: 5.35
Area: 235852
Amount: 179.9585
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

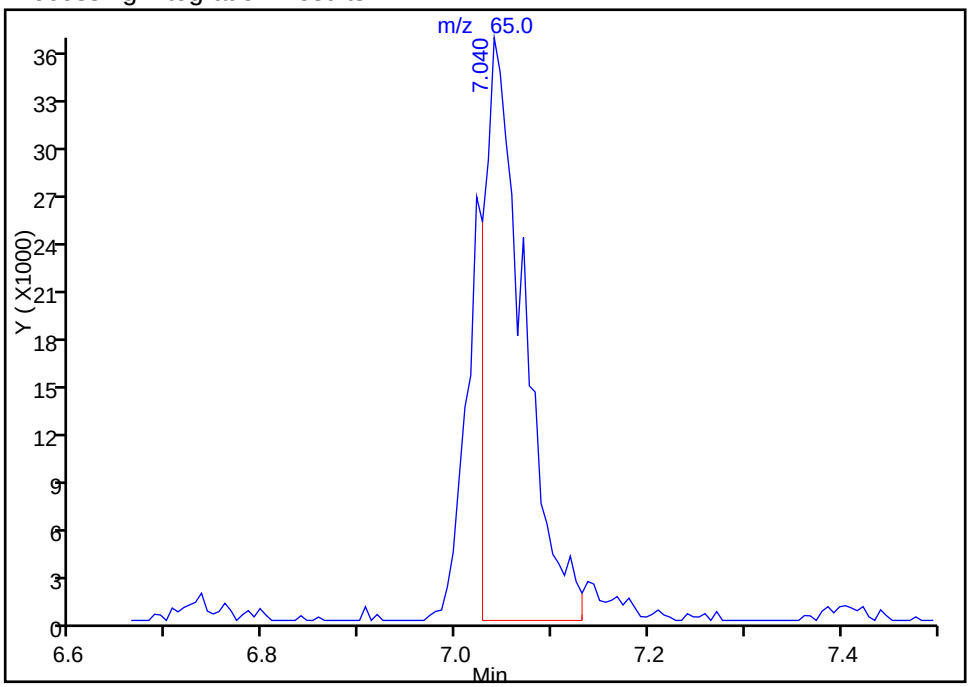
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050802.D
Injection Date: 08-May-2015 08:50:30 Instrument ID: CHHP7
Lims ID: CCVIS
Client ID:
Operator ID: 034635 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 6 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

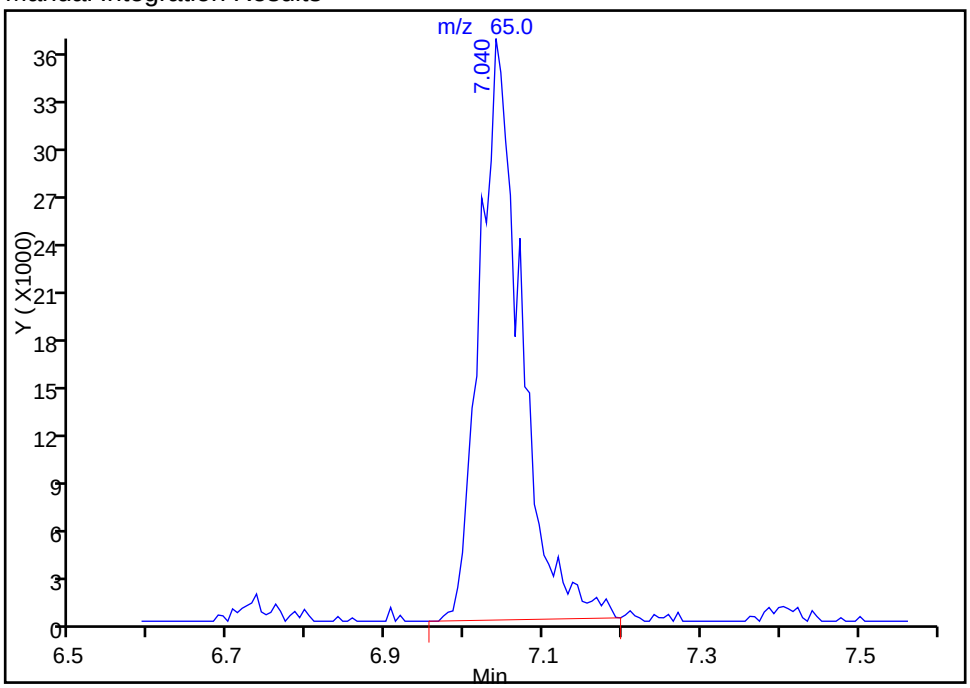
Processing Integration Results

RT: 7.04
Area: 102683
Amount: 145.7880
Amount Units: ng



Manual Integration Results

RT: 7.04
Area: 131965
Amount: 187.3622
Amount Units: ng



Reviewer: journetp, 08-May-2015 09:48:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140962/4 Calibration Date: 05/08/2015 09:52

Instrument ID: CHHP7 Calib Start Date: 10/20/2014 12:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/20/2014 15:38

Lab File ID: 7050804.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0248	0.0185		299	400	-25.3	
Chloroprene	Ave	0.7570	0.6905		36.5	40.0	-8.8	
Isopropyl ether	Ave	1.883	1.219		25.9	40.0	-35.3	
Propionitrile	Ave	0.0387	0.0282		291	400	-27.3	
Methacrylonitrile	Ave	0.1971	0.1403		285	400	-28.9	
n-Butanol	Ave	0.0064	0.0022		337	1000	-66.3	
Ethyl acrylate	Ave	1.580	1.117		28.3	40.0	-29.3	
Methyl methacrylate	Ave	0.1708	0.1887		88.4	80.0	10.5	
2-Nitropropane	Ave	0.3594	0.3274		72.9	80.0	-8.9	
2-Chloroethyl vinyl ether	Ave	0.1502	0.1758		93.6	80.0	17.0	
Cyclohexanone	Qua		0.0086		441	800	-44.9	
1,2,3-Trimethylbenzene	Ave	3.648	0.0452			40.0	-98.8	
Benzyl chloride	Ave	1.293	1.329		41.1	40.0	2.8	
1,3,5-Trichlorobenzene	Ave	0.4538	0.0161		1.42	40.0	-96.4	

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050804.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 08-May-2015 09:52:30 ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 180-0006830-004
Operator ID: 034635 Instrument ID: CHHP7
Sublist: chrom-MSVOA_CHHP7*sub3

Method: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 08-May-2015 17:48:46 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: journetp Date: 08-May-2015 10:29:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.689	4.689	0.000	89	67216	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.408	7.408	0.000	99	1074207	250.0	250.0	s
* 3 Chlorobenzene-d5	119	10.462	10.462	0.000	83	280854	250.0	250.0	s
* 4 1,4-Dichlorobenzene-d4	152	12.786	12.786	0.000	95	273579	250.0	250.0	
27 Acetonitrile	40	4.196	4.196	0.000	89	159251	2000.0	1494.8	
25 Ethanol	45	4.622	4.622	0.000	40	10380	10000	4202.1	M
39 2-Chloro-1,3-butadiene	53	5.480	5.480	0.000	92	593388	200.0	182.4	
37 Isopropyl alcohol	45	5.528	5.528	0.000	98	1047726	2000.0	1300.3	
38 Isopropyl ether	45	5.528	5.528	0.000	95	1047523	200.0	129.5	
40 Tert-butyl ethyl ether	59	5.985	5.985	0.000	97	1104170	200.0	172.8	
44 Propionitrile	54	6.228	6.228	0.000	99	241933	2000.0	1453.1	
45 Ethyl acetate	43	6.264	6.264	0.000	99	223752	400.0	250.2	
47 Methacrylonitrile	41	6.404	6.404	0.000	91	1205349	2000.0	1423.0	
57 Isooctane	57	7.207	7.207	0.000	96	1404193	NC	NC	
58 Tert-amyl methyl ether	73	7.256	7.256	0.000	95	1102231	200.0	221.0	
61 n-Butanol	56	7.797	7.797	0.000	95	46240	5000.0	1685.3	
62 Ethyl acrylate	55	7.943	7.943	0.000	99	250879	200.0	141.3	
66 Methyl methacrylate	69	8.175	8.175	0.000	85	324261	400.0	441.9	
69 2-Nitropropane	41	8.552	8.552	0.000	99	147113	400.0	364.4	
70 2-Chloroethyl vinyl ether	63	8.631	8.631	0.000	96	302162	400.0	468.1	
80 n-Butyl acetate	43	9.884	9.884	0.000	97	203305	200.0	96.5	
92 Cyclohexanone	55	11.575	11.575	0.000	89	38513	4000.0	2202.6	
102 Pentachloroethane	167	12.409	12.409	0.000	91	232252	200.0	282.6	
108 1,2,3-Trimethylbenzene	105	12.439	12.439	0.000	25	9900	200.0	2.48	7M
109 Benzyl chloride	91	12.944	12.944	0.000	98	290831	200.0	205.6	
113 1,3,5-Trichlorobenzene	180	14.191	14.191	0.000	24	3527	200.0	7.10	
118 2-Methylnaphthalene	142	16.345	16.345	0.000	1	1165	200.0	454.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00033	Amount Added:	10.00	Units: uL
VOAAPPIXPRI_00009	Amount Added:	8.00	Units: uL
VOACEVEPRI_00006	Amount Added:	8.00	Units: uL

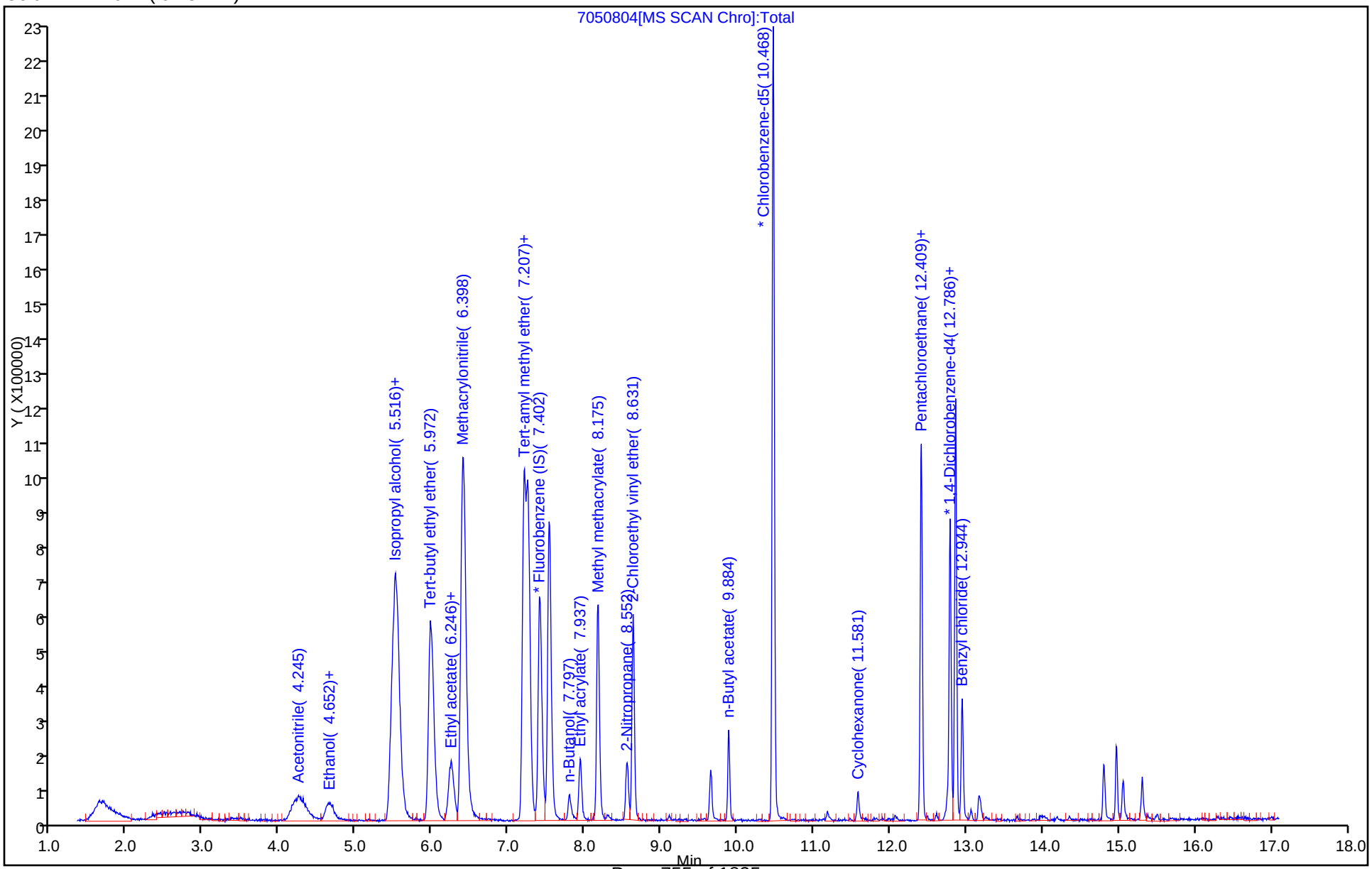
Report Date: 08-May-2015 17:48:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050804.D

Injection Date:	08-May-2015 09:52:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

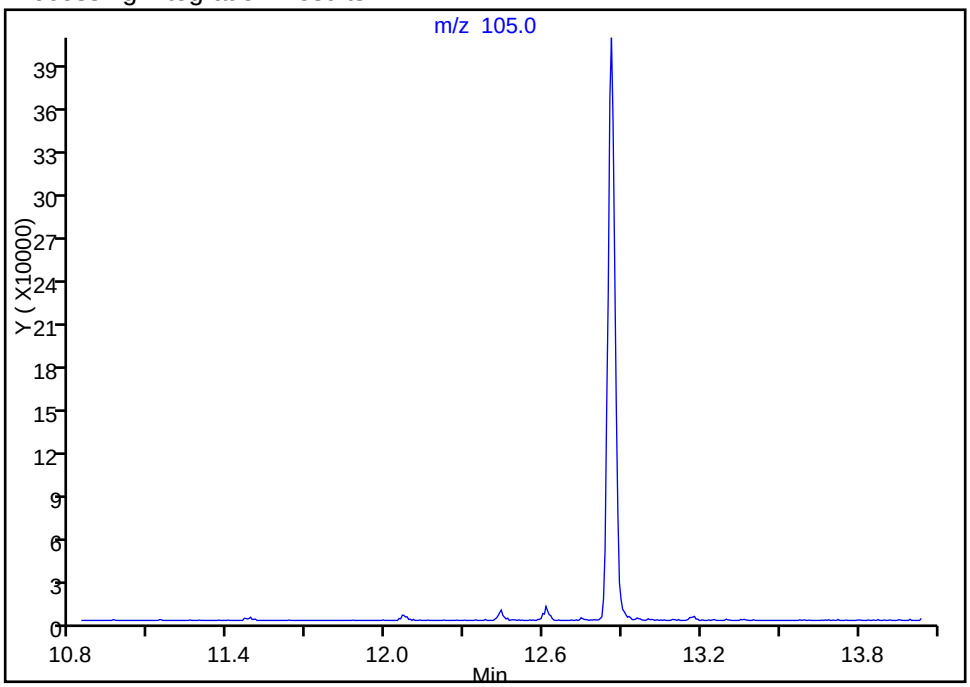
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050804.D				
Injection Date:	08-May-2015 09:52:30	Instrument ID:	CHHP7		
Lims ID:	CCV				
Client ID:					
Operator ID:	034635	ALS Bottle#:	5	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

108 1,2,3-Trimethylbenzene, CAS: 526-73-8

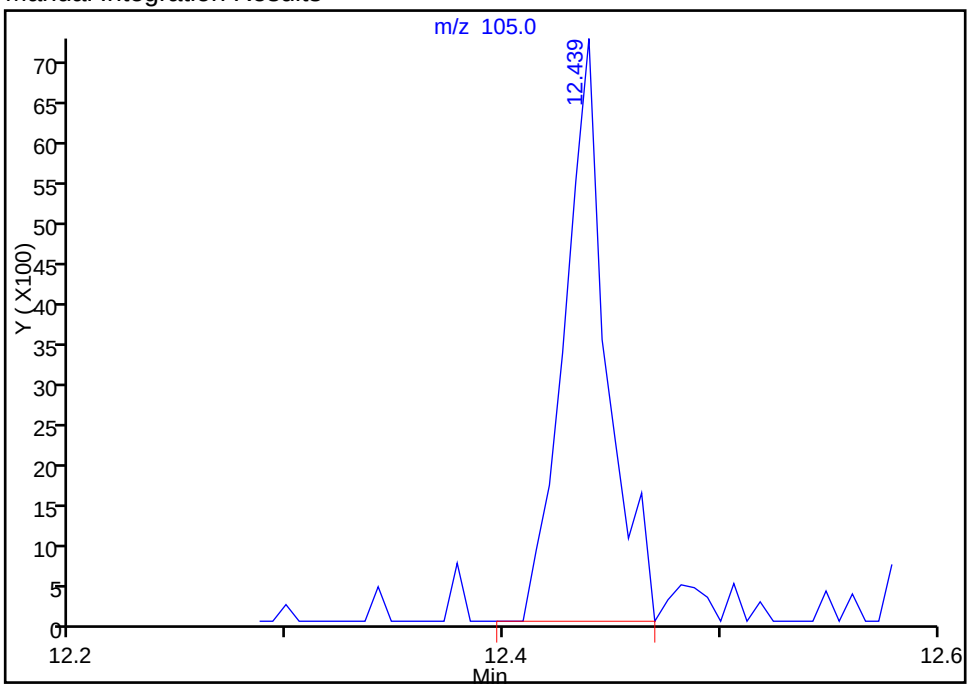
Not Detected
Expected RT: 12.44

Processing Integration Results



Manual Integration Results

RT: 12.44
Area: 9900
Amount: 2.480246
Amount Units: ng



Reviewer: journetp, 08-May-2015 10:29:39
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110301.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	03-Nov-2014 09:04:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0004149-001				
Operator ID:	034635	Instrument ID:	CHHP4		
Method:	\\PITCHROM\ChromData\CHHP4\20141103-4149.b\MSVOA_CHHP4.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	03-Nov-2014 16:25:10	Calib Date:	03-Nov-2014 16:24:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110312.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK026				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 9 BFB	95	8.391	8.391	0.000	0	602192	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

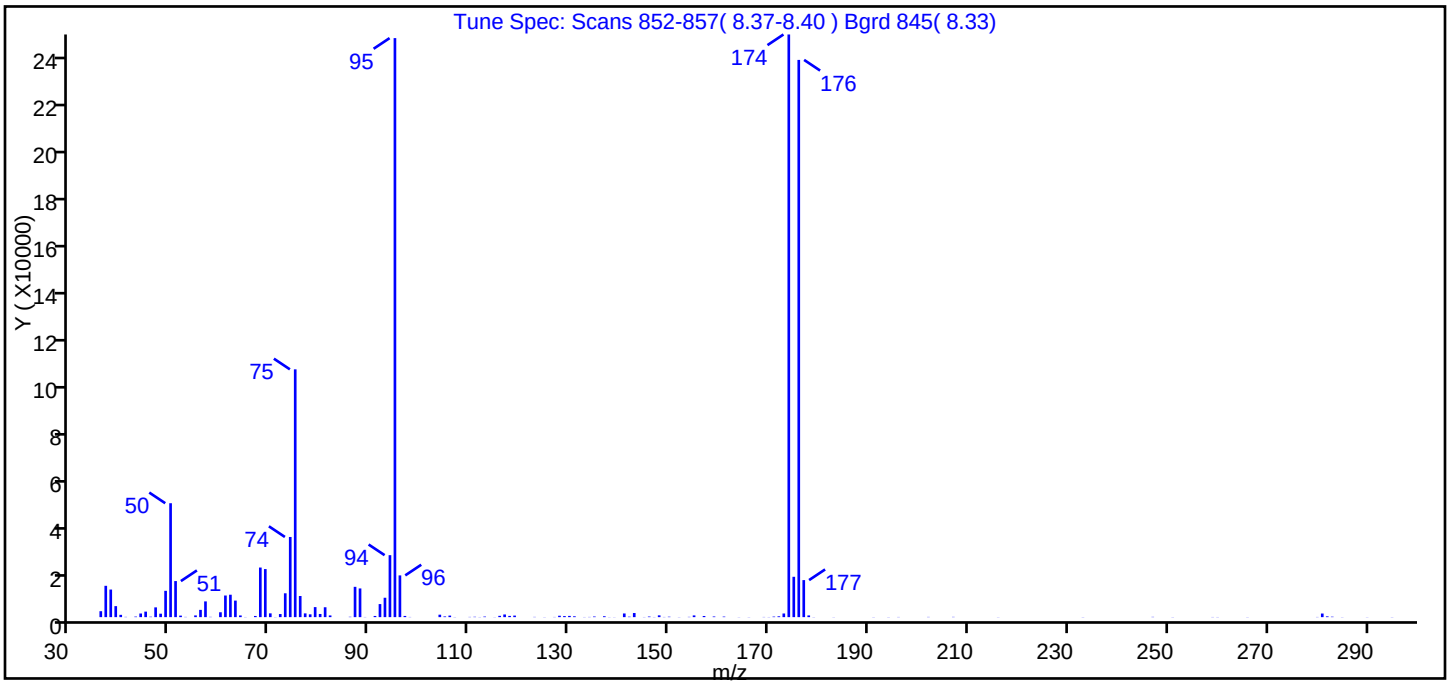
VOABFB50_00056 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110301.D
Injection Date: 03-Nov-2014 09:04:30 Instrument ID: CHHP4
Lims ID: BFB
Client ID:
Operator ID: 034635 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP4 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.70
75	30.00 - 60.00% of mass 95	42.80
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.60 (0.60)
174	50.00 - 120.00% of mass 95	100.60
175	5.00 - 9.00% of mass 174	7.00 (6.90)
176	95.00 - 101.00% of mass 174	96.20 (95.60)
177	5.00 - 9.00% of mass 176	6.40 (6.60)

Data File: \\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110301.D\MSVOA_CHHP4.rslt\spectra.d
Injection Date: 03-Nov-2014 09:04:30
Spectrum: Tune Spec: Scans 852-857(8.37-8.40) Bgrd 845(8.33)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 129

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2514	73.00	10086	118.00	524	170.00	66
37.00	13249	74.00	33904	119.00	658	171.00	231
38.00	11670	75.00	104792	123.00	102	172.00	352
39.00	4655	76.00	8941	125.00	58	173.00	1548
40.00	976	77.00	1587	127.00	80	174.00	246400
41.00	107	78.00	1187	128.00	592	175.00	17064
43.00	231	79.00	4241	129.00	443	176.00	235648
44.00	1541	80.00	1340	130.00	526	177.00	15664
45.00	2336	81.00	4181	131.00	359	178.00	721
46.00	186	82.00	720	133.00	67	179.00	59
47.00	4132	86.00	153	134.00	88	183.00	50
48.00	1457	87.00	12818	135.00	263	191.00	59
49.00	11130	88.00	12138	137.00	376	194.00	59
50.00	48176	89.00	70	138.00	53	196.00	78
51.00	15251	91.00	501	139.00	50	202.00	97
52.00	649	92.00	5525	141.00	1554	207.00	112
53.00	94	93.00	8201	142.00	191	216.00	50
55.00	729	94.00	26208	143.00	1741	233.00	60
56.00	3079	95.00	244864	145.00	66	247.00	116
57.00	6660	96.00	17656	146.00	250	251.00	59
58.00	119	97.00	509	147.00	66	259.00	72
60.00	2066	98.00	78	148.00	758	260.00	65
61.00	9147	104.00	1039	149.00	79	266.00	56
62.00	9483	105.00	301	150.00	183	280.00	80
63.00	6997	106.00	657	152.00	62	281.00	1531
64.00	713	107.00	63	154.00	114	282.00	324
65.00	65	110.00	96	155.00	729	283.00	190
67.00	498	111.00	154	157.00	476	285.00	56
68.00	20976	112.00	66	159.00	276	290.00	51
69.00	20328	113.00	240	161.00	233	295.00	61
70.00	1602	115.00	54	164.00	54		
71.00	57	116.00	553	166.00	59		
72.00	1312	117.00	1131	169.00	81		

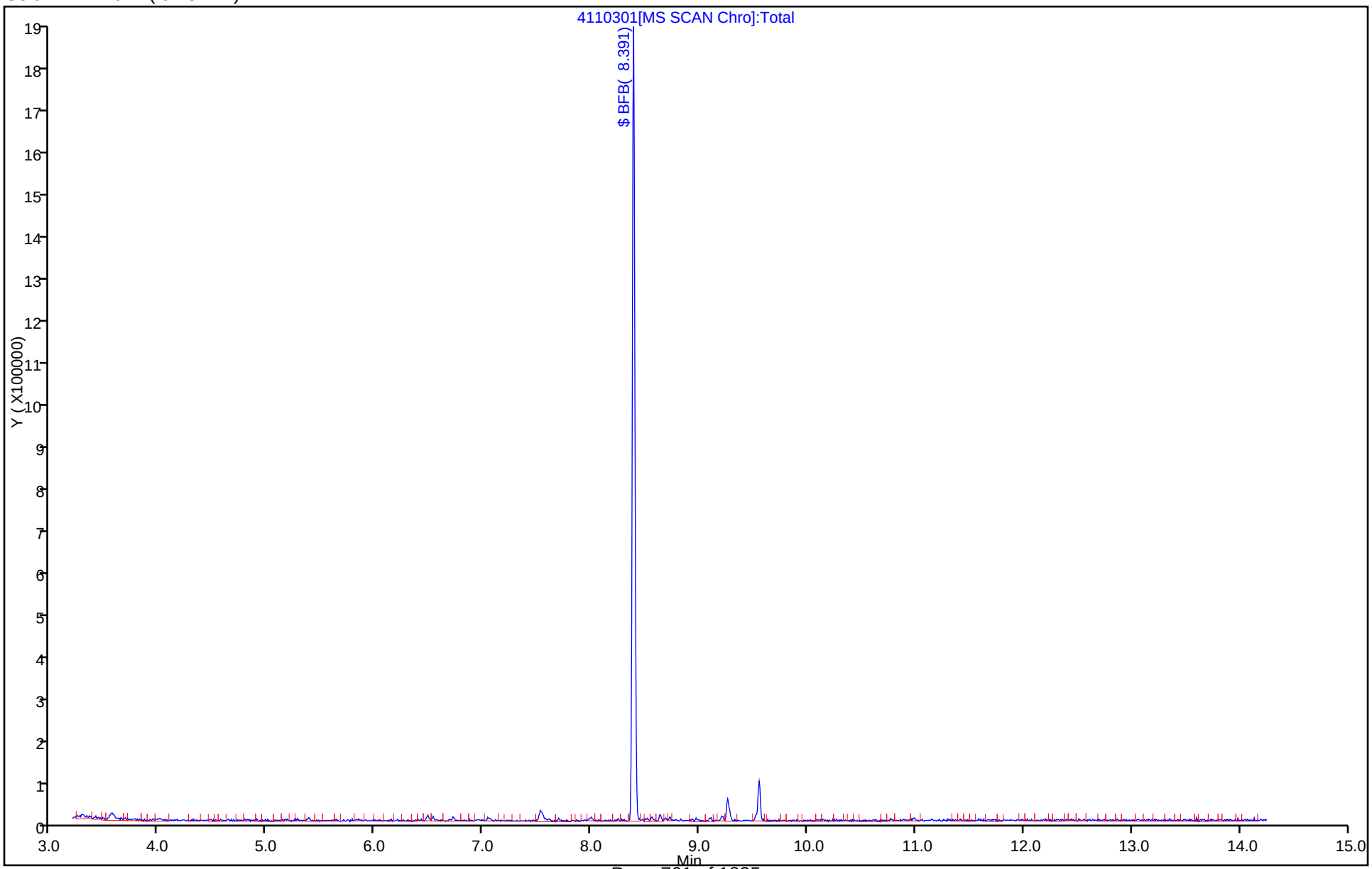
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2514	73.00	10086	118.00	524	170.00	66
37.00	13249	74.00	33904	119.00	658	171.00	231
38.00	11670	75.00	104792	123.00	102	172.00	352
39.00	4655	76.00	8941	125.00	58	173.00	1548
40.00	976	77.00	1587	127.00	80	174.00	246400
41.00	107	78.00	1187	128.00	592	175.00	17064
43.00	231	79.00	4241	129.00	443	176.00	235648
44.00	1541	80.00	1340	130.00	526	177.00	15664
45.00	2336	81.00	4181	131.00	359	178.00	721
46.00	186	82.00	720	133.00	67	179.00	59
47.00	4132	86.00	153	134.00	88	183.00	50
48.00	1457	87.00	12818	135.00	263	191.00	59
49.00	11130	88.00	12138	137.00	376	194.00	59
50.00	48176	89.00	70	138.00	53	196.00	78
51.00	15251	91.00	501	139.00	50	202.00	97
52.00	649	92.00	5525	141.00	1554	207.00	112
53.00	94	93.00	8201	142.00	191	216.00	50
55.00	729	94.00	26208	143.00	1741	233.00	60
56.00	3079	95.00	244864	145.00	66	247.00	116
57.00	6660	96.00	17656	146.00	250	251.00	59
58.00	119	97.00	509	147.00	66	259.00	72
60.00	2066	98.00	78	148.00	758	260.00	65
61.00	9147	104.00	1039	149.00	79	266.00	56
62.00	9483	105.00	301	150.00	183	280.00	80
63.00	6997	106.00	657	152.00	62	281.00	1531
64.00	713	107.00	63	154.00	114	282.00	324
65.00	65	110.00	96	155.00	729	283.00	190
67.00	498	111.00	154	157.00	476	285.00	56
68.00	20976	112.00	66	159.00	276	290.00	51
69.00	20328	113.00	240	161.00	233	295.00	61
70.00	1602	115.00	54	164.00	54		
71.00	57	116.00	553	166.00	59		
72.00	1312	117.00	1131	169.00	81		

Report Date: 03-Nov-2014 16:25:11 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP4\20141103-4149.b\4110301.D				
Injection Date:	03-Nov-2014 09:04:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050901.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	09-May-2015 11:24:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0006844-001				
Operator ID:	034635	Instrument ID:	CHHP4		
Method:	\\PITCHROM\ChromData\CHHP4\20150509-6844.b\MSVOA_CHHP4.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	10-May-2015 11:35:20	Calib Date:	27-Apr-2015 13:50:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\PITCHROM\ChromData\CHHP4\20150427-6642.b\4042710.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK017				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 9 BFB	95	10.648	10.648	0.000	0	329298	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

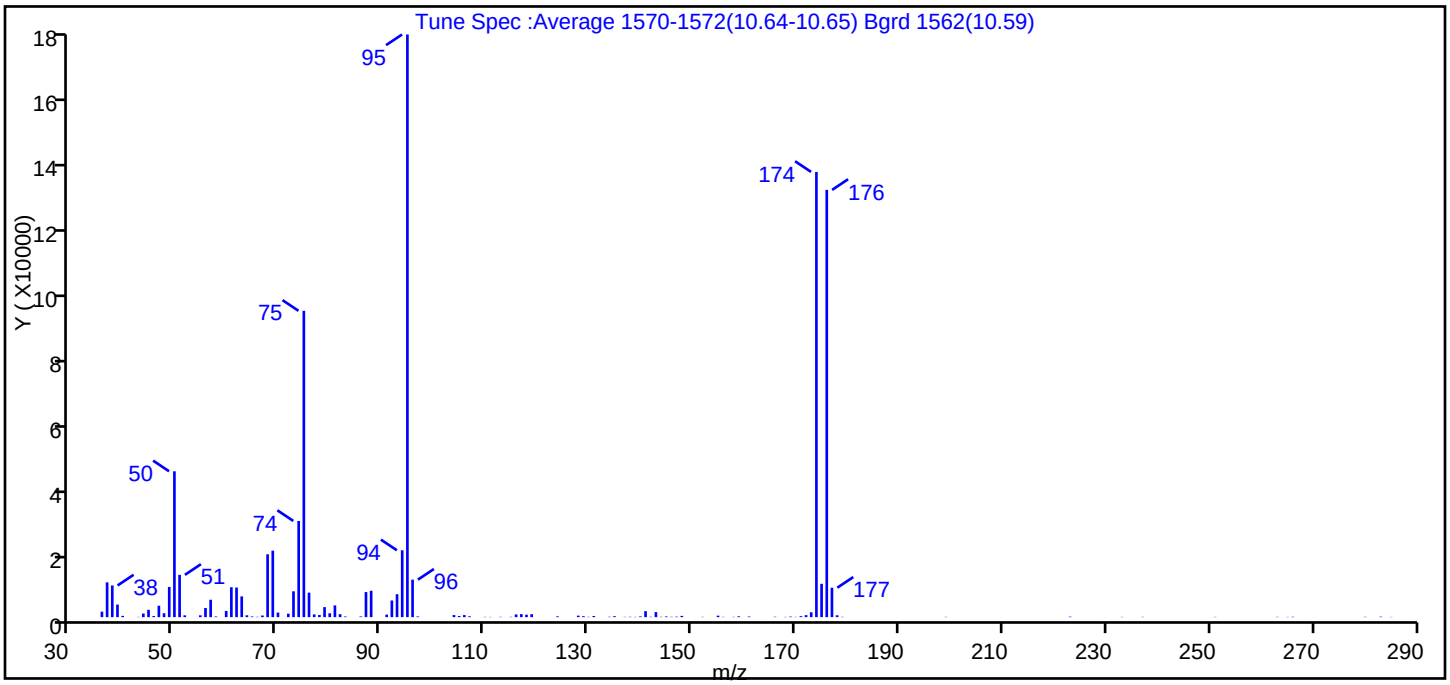
VOABFB50_00062 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050901.D
Injection Date: 09-May-2015 11:24:30 Instrument ID: CHHP4
Lims ID: BFB
Client ID:
Operator ID: 034635 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP4 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	25.0
75	30 to 60% of m/z 95	52.6
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.8 (1.1)
174	50 to 120% of m/z 95	76.4
175	5 to 9% of m/z 174	5.7 (7.5)
176	Greater than 95% but less than 101% of m/z 174	73.3 (96.0)
177	5 to 9% of m/z 176	5.0 (6.9)

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050901.D\MSVOA_CHHP4.rslt\spectra.d
Injection Date: 09-May-2015 11:24:30
Spectrum: Tune Spec :Average 1570-1572(10.64-10.65) Bgrd 1562(10.59)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1649	70.00	1366	113.00	95	159.00	249
37.00	10415	72.00	1037	115.00	100	161.00	180
38.00	9489	73.00	7739	116.00	816	166.00	118
39.00	3763	74.00	28800	117.00	903	168.00	81
40.00	380	75.00	91720	118.00	737	169.00	166
43.00	79	76.00	7338	119.00	886	170.00	73
44.00	1085	77.00	812	124.00	235	171.00	291
45.00	2191	78.00	636	128.00	451	172.00	601
46.00	327	79.00	3003	129.00	284	173.00	1455
47.00	3414	80.00	1155	130.00	90	174.00	133312
48.00	1164	81.00	3520	131.00	333	175.00	9979
49.00	9033	82.00	880	134.00	114	176.00	127928
50.00	43672	83.00	197	135.00	280	177.00	8807
51.00	12666	86.00	199	137.00	87	178.00	564
52.00	546	87.00	7509	138.00	113	179.00	91
55.00	539	88.00	7904	139.00	75	199.00	84
56.00	2729	91.00	752	140.00	215	223.00	155
57.00	5207	92.00	4987	141.00	1789	233.00	75
58.00	203	93.00	6865	142.00	110	237.00	85
60.00	1855	94.00	20024	143.00	1506	251.00	78
61.00	8949	95.00	174464	144.00	103	263.00	88
62.00	8867	96.00	11226	145.00	204	265.00	68
63.00	6216	97.00	209	146.00	102	266.00	117
64.00	559	104.00	628	147.00	154	280.00	97
65.00	203	105.00	332	148.00	382	283.00	140
66.00	97	106.00	620	152.00	84	285.00	70
67.00	489	107.00	254	155.00	439		
68.00	18824	110.00	87	156.00	86		
69.00	19904	111.00	69	158.00	82		

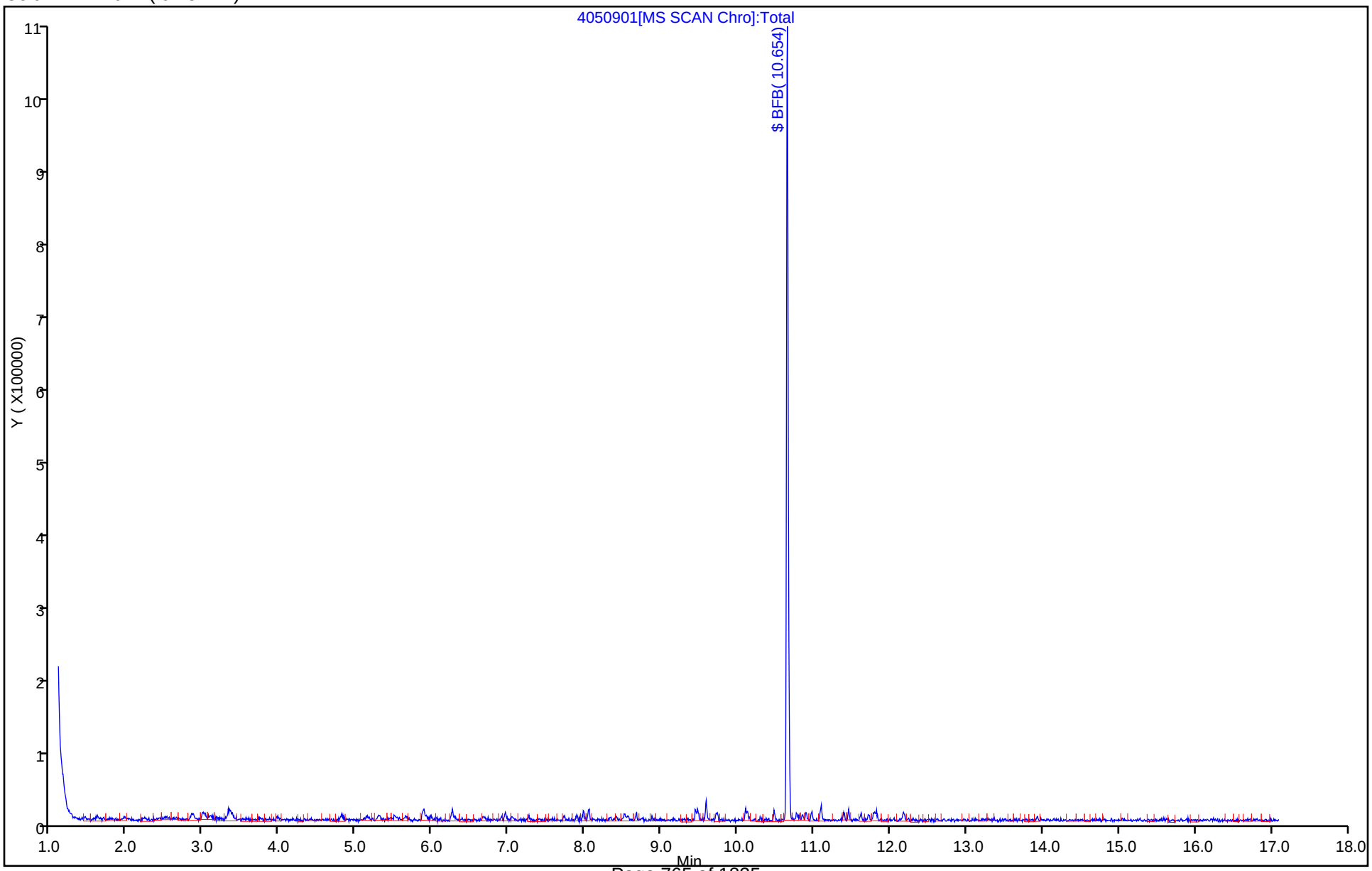
Report Date: 10-May-2015 11:35:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050901.D

Injection Date:	09-May-2015 11:24:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102001.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	20-Oct-2014 11:48:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0003900-001				
Operator ID:	034635	Instrument ID:	CHHP7		
Method:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\MSVOA_CHHP7.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	20-Oct-2014 18:03:15	Calib Date:	20-Oct-2014 15:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102009.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK037				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 9 BFB	95	11.643	11.643	0.000	0	129637	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

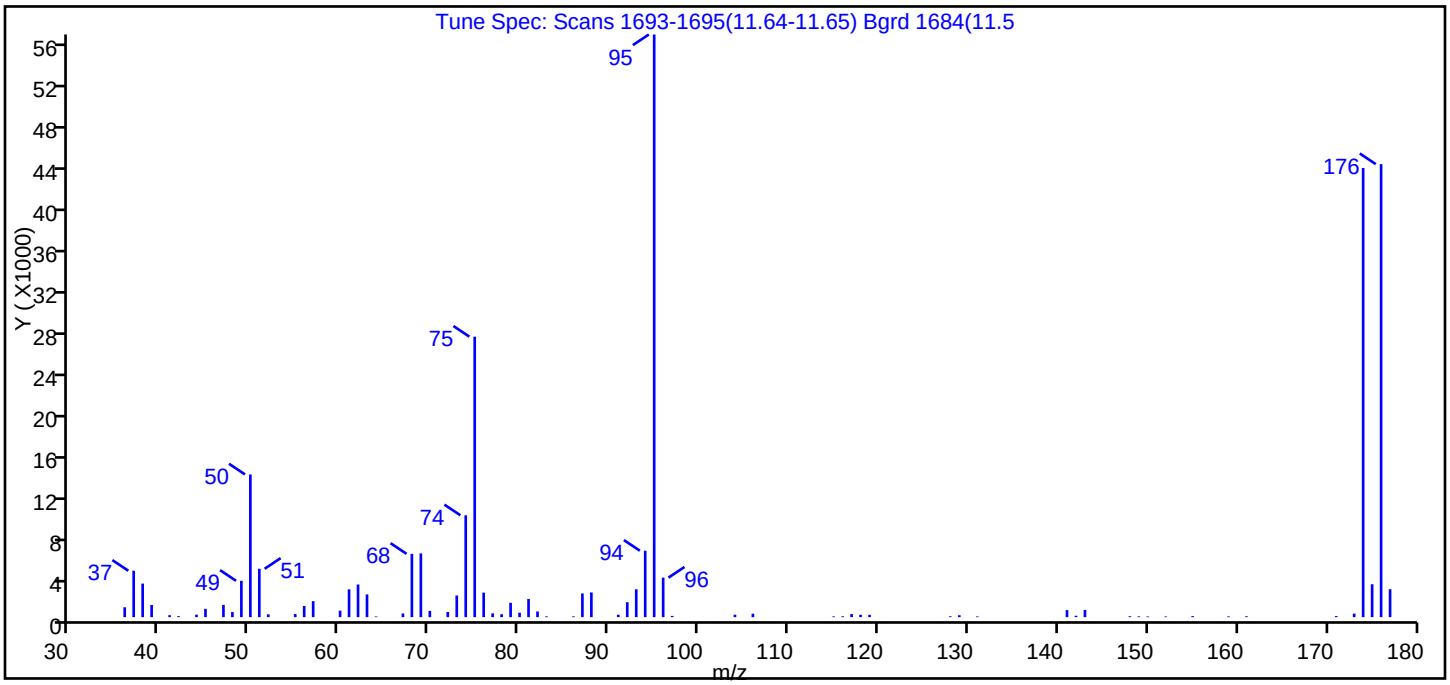
VOABFB50_00055 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102001.D
Injection Date: 20-Oct-2014 11:48:30 Instrument ID: CHHP7
Lims ID: BFB
Client ID:
Operator ID: 034635 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.50
75	30.00 - 60.00% of mass 95	48.10
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.60 (0.80)
174	50.00 - 120.00% of mass 95	77.10
175	5.00 - 9.00% of mass 174	5.60 (7.30)
176	95.00 - 101.00% of mass 174	77.70 (100.80)
177	5.00 - 9.00% of mass 176	4.80 (6.20)

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102001.D\MSVOA_CHHP7.rslt\spectra.d
Injection Date: 20-Oct-2014 11:48:30
Spectrum: Tune Spec: Scans 1693-1695(11.64-11.65) Bgrd 1684(11.5
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	952	62.00	3150	86.00	77	131.00	70
37.00	4477	63.00	2191	87.00	2289	141.00	678
38.00	3237	64.00	67	88.00	2382	142.00	135
39.00	1174	67.00	354	91.00	230	143.00	696
41.00	190	68.00	6107	92.00	1440	148.00	89
42.00	95	69.00	6152	93.00	2690	149.00	76
44.00	239	70.00	605	94.00	6410	150.00	67
45.00	798	72.00	500	95.00	56224	152.00	67
47.00	1183	73.00	2090	96.00	3812	155.00	100
48.00	488	74.00	9827	97.00	120	159.00	72
49.00	3506	75.00	27064	104.00	236	161.00	84
50.00	13770	76.00	2365	106.00	336	171.00	106
51.00	4666	77.00	368	115.00	74	173.00	341
52.00	273	78.00	280	116.00	83	174.00	43344
55.00	297	79.00	1385	117.00	297	175.00	3175
56.00	1075	80.00	427	118.00	229	176.00	43712
57.00	1545	81.00	1755	119.00	225	177.00	2696
60.00	629	82.00	547	128.00	81		
61.00	2684	83.00	76	129.00	182		

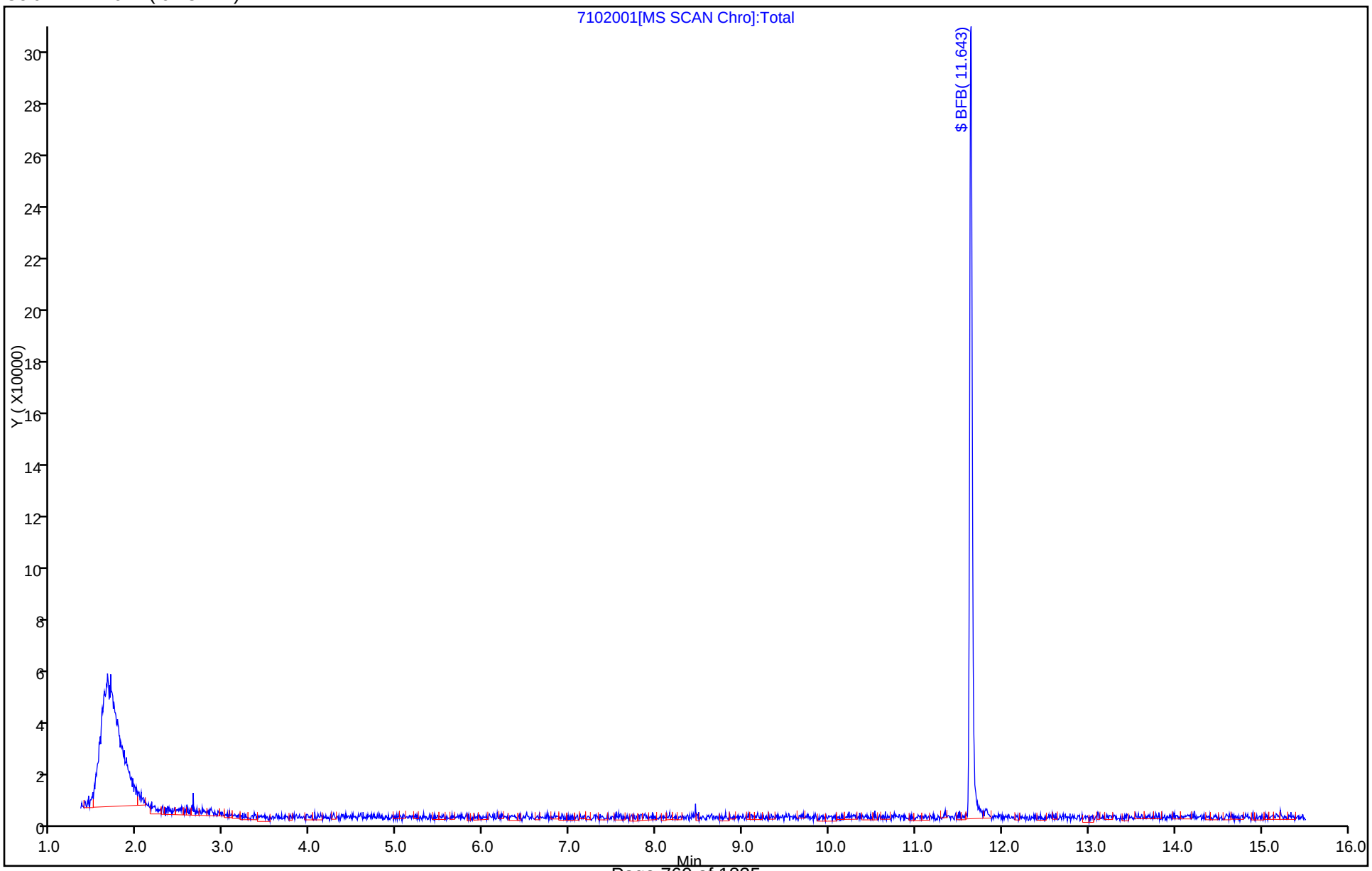
Report Date: 20-Oct-2014 18:03:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20141020-3900.b\7102001.D

Injection Date:	20-Oct-2014 11:48:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011301.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	13-Jan-2015 09:04:30	ALS Bottle#:	50	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	bfb				
Misc. Info.:	180-0005249-001				
Operator ID:	034635	Instrument ID:	CHHP7		
Method:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\MSVOA_CHHP7.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	17-Feb-2015 14:17:18	Calib Date:	13-Jan-2015 14:16:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK035				
First Level Reviewer: bachas		Date:	17-Feb-2015 14:17:17		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 9 BFB	95	11.639	11.639	0.000	0	190314	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

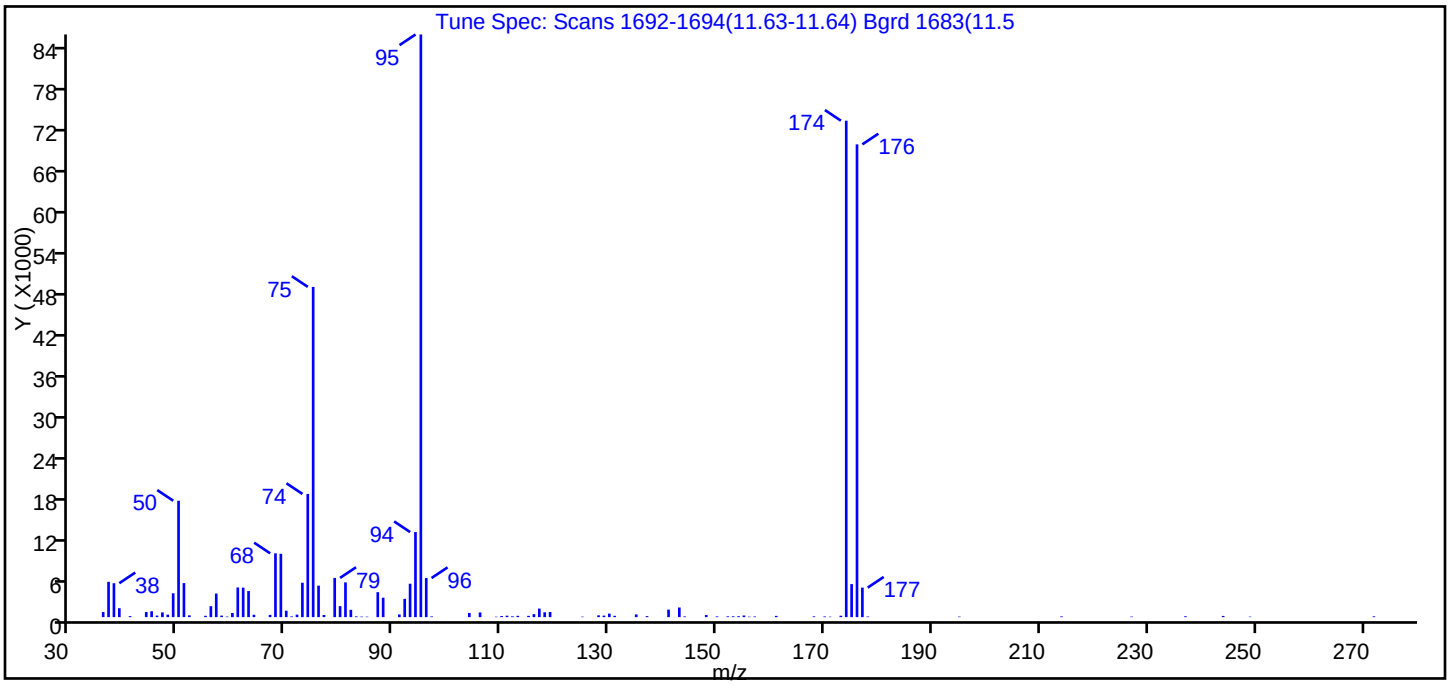
VOABFB50_00058 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011301.D
Injection Date: 13-Jan-2015 09:04:30 Instrument ID: CHHP7
Lims ID: BFB
Client ID:
Operator ID: 034635 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.0
75	30 to 60% of m/z 95	56.7
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	85.2
175	5 to 9% of m/z 174	5.7 (6.7)
176	Greater than 95% but less than 101% of m/z 174	81.1 (95.2)
177	5 to 9% of m/z 176	5.1 (6.2)

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011301.D\MSVOA_CHHP7.rslt\spectra.d
Injection Date: 13-Jan-2015 09:04:30
Spectrum: Tune Spec: Scans 1692-1694(11.63-11.64) Bgrd 1683(11.5
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	742	68.00	9330	97.00	104	150.00	108
37.00	5170	69.00	9262	104.00	612	152.00	116
38.00	4961	70.00	939	106.00	687	153.00	119
39.00	1304	71.00	104	109.00	66	154.00	133
41.00	147	72.00	366	110.00	162	155.00	240
44.00	756	73.00	5031	111.00	214	156.00	69
45.00	864	74.00	18016	112.00	120	157.00	95
46.00	225	75.00	48296	113.00	194	161.00	184
47.00	694	76.00	4608	115.00	191	168.00	113
48.00	365	77.00	314	116.00	442	170.00	99
49.00	3489	79.00	5736	117.00	1248	171.00	67
50.00	17024	80.00	1614	118.00	706	173.00	206
51.00	4978	81.00	5085	119.00	753	174.00	72600
52.00	262	82.00	1072	125.00	72	175.00	4833
55.00	196	83.00	112	128.00	264	176.00	69136
56.00	1605	84.00	78	129.00	226	177.00	4319
57.00	3452	85.00	71	130.00	516	178.00	91
58.00	228	87.00	3655	131.00	194	195.00	80
59.00	85	88.00	2844	135.00	399	214.00	106
60.00	609	91.00	396	137.00	151	227.00	81
61.00	4336	92.00	2672	141.00	1101	237.00	128
62.00	4313	93.00	4887	142.00	11	244.00	178
63.00	3815	94.00	12438	143.00	1407	249.00	70
64.00	348	95.00	85208	144.00	103	272.00	116
67.00	331	96.00	5720	148.00	308		

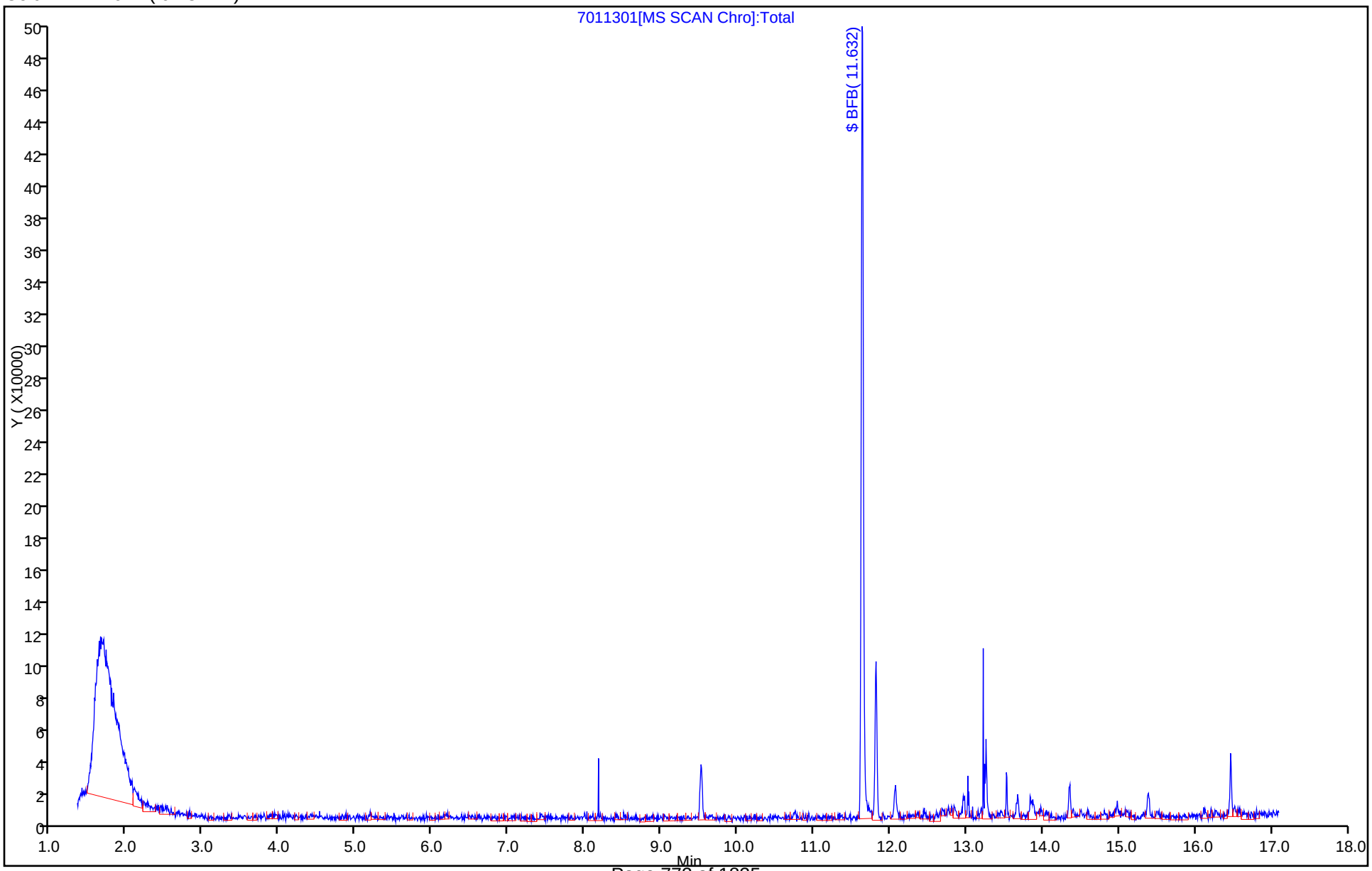
Report Date: 17-Feb-2015 14:17:19 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011301.D

Injection Date:	13-Jan-2015 09:04:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050801.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-May-2015 07:42:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 180-0006830-001
Operator ID: 034635 Instrument ID: CHHP7

Method: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 08-May-2015 17:48:33 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: journetp Date: 08-May-2015 08:18:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 9 BFB	95	11.636	11.636	0.000	0	230166	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

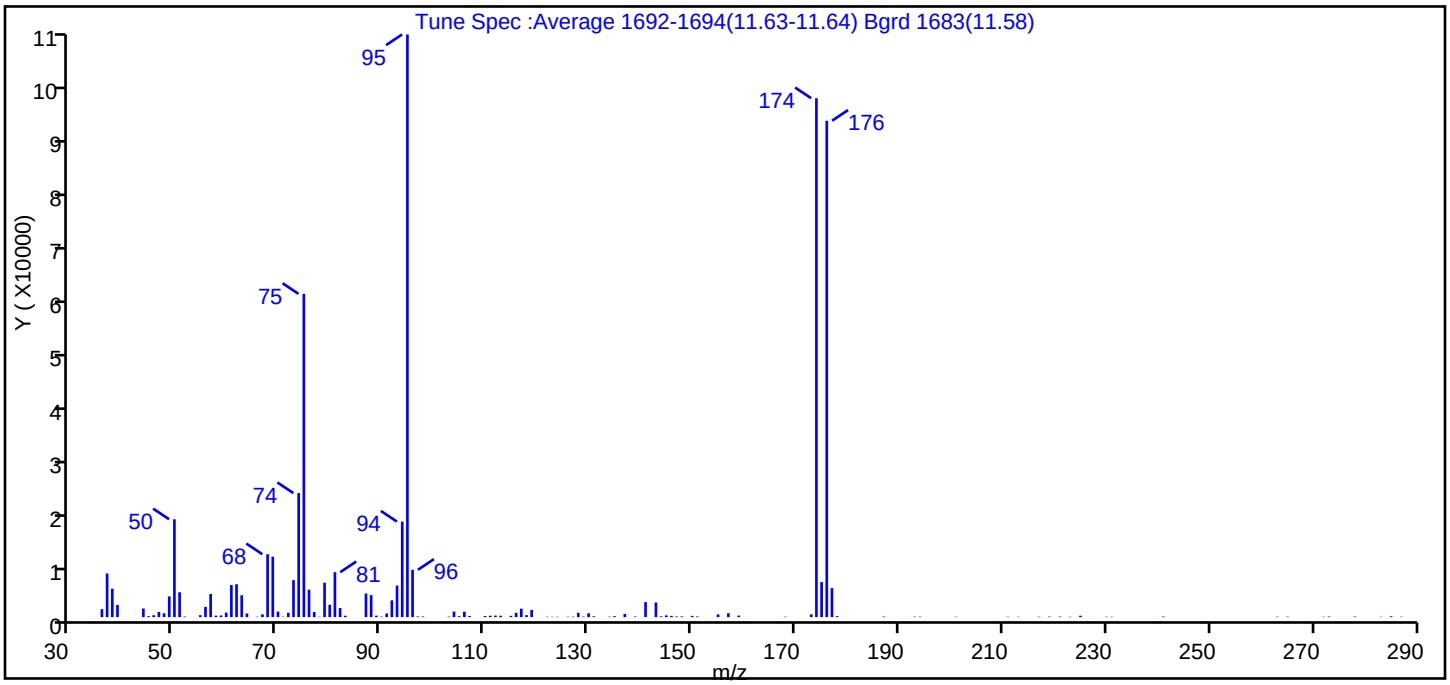
VOABFB50_00062 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050801.D
Injection Date: 08-May-2015 07:42:30 Instrument ID: CHHP7
Lims ID: BFB
Client ID:
Operator ID: 034635 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.8
75	30 to 60% of m/z 95	55.5
96	5 to 9% of m/z 95	8.1
173	Less than 2% of m/z 174	0.5 (0.5)
174	50 to 120% of m/z 95	89.1
175	5 to 9% of m/z 174	6.0 (6.8)
176	Greater than 95% but less than 101% of m/z 174	85.2 (95.7)
177	5 to 9% of m/z 176	5.0 (5.8)

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050801.D\MSVOA_CHHP7.rslt\spectra.d
Injection Date: 08-May-2015 07:42:30
Spectrum: Tune Spec :Average 1692-1694(11.63-11.64) Bgrd 1683(11.58)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1419	74.00	22072	115.00	234	173.00	499
37.00	7761	75.00	57520	116.00	773	174.00	92344
38.00	5067	76.00	4888	117.00	1510	175.00	6237
39.00	2170	77.00	916	118.00	361	176.00	88336
44.00	1531	78.00	71	119.00	1282	177.00	5158
45.00	175	79.00	6125	122.00	71	178.00	177
46.00	347	80.00	2210	123.00	69	187.00	101
47.00	921	81.00	8000	124.00	67	193.00	82
48.00	674	82.00	1630	126.00	77	194.00	88
49.00	3688	83.00	255	127.00	84	201.00	68
50.00	17416	87.00	4202	128.00	774	211.00	71
51.00	4426	88.00	3920	129.00	92	213.00	71
52.00	113	89.00	273	130.00	686	217.00	78
55.00	350	90.00	86	131.00	153	219.00	95
56.00	1832	91.00	657	134.00	75	221.00	100
57.00	4120	92.00	2985	135.00	175	223.00	69
58.00	267	93.00	5616	137.00	583	225.00	250
59.00	297	94.00	17000	139.00	114	230.00	74
60.00	808	95.00	103680	141.00	2679	231.00	72
61.00	5713	96.00	8424	143.00	2608	241.00	103
62.00	5866	97.00	125	144.00	141	263.00	78
63.00	3892	98.00	119	145.00	312	265.00	88
64.00	656	103.00	95	146.00	225	272.00	68
66.00	79	104.00	993	147.00	117	273.00	109
67.00	495	105.00	172	148.00	133	278.00	103
68.00	11200	106.00	972	150.00	227	283.00	68
69.00	10763	107.00	202	151.00	122	285.00	149
70.00	987	110.00	203	155.00	493	287.00	73
71.00	80	111.00	245	157.00	696		
72.00	777	112.00	272	159.00	281		
73.00	6590	113.00	250	168.00	73		

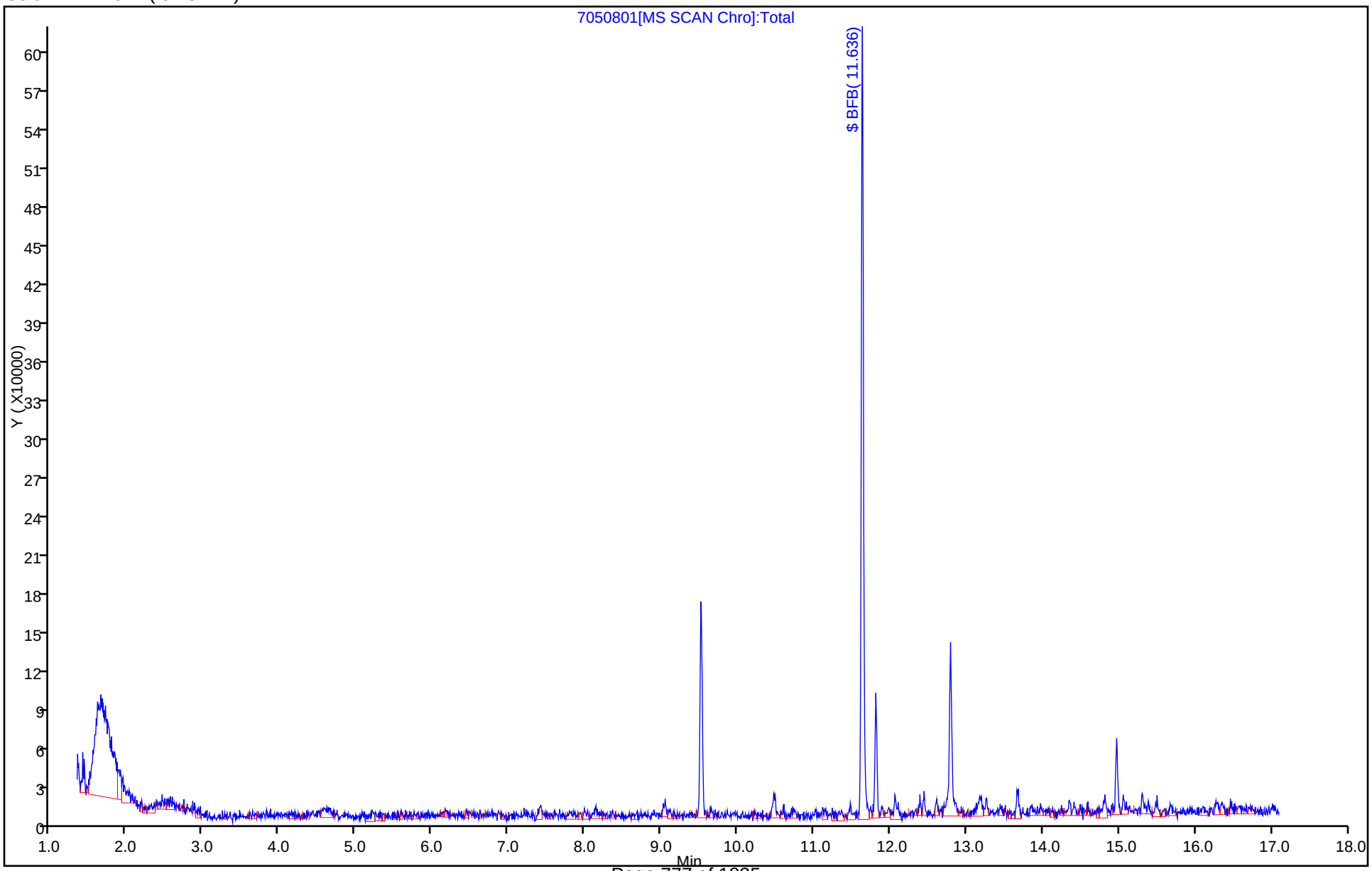
Report Date: 08-May-2015 17:48:33 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050801.D

Injection Date:	08-May-2015 07:42:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-141065/5

Matrix: Water | Lab File ID: 4050905.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/09/2015 14:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 141065 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.93
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
75-34-3	1,1-Dichloroethane	ND		5.0	1.0
75-35-4	1,1-Dichloroethene	ND		5.0	1.1
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.68
107-06-2	1,2-Dichloroethane	ND		5.0	0.96
78-87-5	1,2-Dichloropropane	ND		5.0	1.3
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.51
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.53
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.9
107-02-8	Acrolein	ND		100	5.7
107-13-1	Acrylonitrile	ND		50	9.0
71-43-2	Benzene	ND		5.0	0.99
75-25-2	Bromoform	ND		5.0	1.1
74-83-9	Bromomethane	ND		5.0	1.6
56-23-5	Carbon tetrachloride	ND		5.0	1.1
108-90-7	Chlorobenzene	ND		5.0	0.53
67-66-3	Chloroform	ND		5.0	1.0
74-87-3	Chloromethane	ND		5.0	1.4
124-48-1	Chlorodibromomethane	ND		5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.73
75-27-4	Dichlorobromomethane	ND		5.0	0.93
100-41-4	Ethylbenzene	ND		5.0	0.62
75-09-2	Methylene Chloride	1.10	J	5.0	1.1
127-18-4	Tetrachloroethene	ND		5.0	0.82
108-88-3	Toluene	ND		5.0	0.85
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	0.58
79-01-6	Trichloroethene	ND		5.0	0.80
75-01-4	Vinyl chloride	ND		5.0	1.3
75-00-3	Chloroethane	ND		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-141065/5

Matrix: Water Lab File ID: 4050905.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/09/2015 14:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 141065 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		62-123
460-00-4	4-Bromofluorobenzene (Surr)	93		75-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	120		80-120

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050905.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 09-May-2015 14:00:30 ALS Bottle#: 12 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Misc. Info.: 180-0006844-005
Operator ID: 034635 Instrument ID: CHHP4

Method: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 10-May-2015 12:48:16 Calib Date: 27-Apr-2015 13:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20150427-6642.b\4042710.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: journetp Date: 09-May-2015 14:20:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.094	3.144	-0.050	95	147639	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	6.257	6.259	-0.002	97	979359	250.0	250.0	
* 3 Chlorobenzene-d5	119	9.451	9.446	0.005	88	200301	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	11.799	11.801	-0.002	97	202493	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	5.497	5.492	0.005	93	208143	250.0	257.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	5.892	5.882	0.010	95	196238	250.0	218.2	
$ 7 Toluene-d8 (Surr)	98	7.979	7.980	-0.001	94	952051	250.0	298.8	
$ 8 4-Bromofluorobenzene (Surr	95	10.650	10.651	-0.001	89	253128	250.0	231.5	
10 Dichlorodifluoromethane	85		1.209					ND	
11 Chloromethane	50		1.319					ND	
12 Vinyl chloride	62		1.410					ND	
13 Butadiene	54		1.441					ND	
14 Bromomethane	94		1.660					ND	
15 Chloroethane	64		1.739					ND	
17 Trichlorofluoromethane	101		1.939					ND	
16 Dichlorofluoromethane	67		1.964					ND	
19 Ethyl ether	59		2.219					ND	
20 Acrolein	56		2.359					ND	
21 1,1-Dichloroethene	96		2.414					ND	
22 1,1,2-Trichloro-1,2,2-trif	101		2.487					ND	
23 Acetone	43		2.511					ND	
24 Iodomethane	142		2.566					ND	
25 Carbon disulfide	76		2.615					ND	
26 Isopropyl alcohol	45		2.742					ND	
28 3-Chloro-1-propene	76		2.828					ND	
27 Acetonitrile	40		2.834					ND	
29 Methyl acetate	43		2.858					ND	
30 Methylene Chloride	84	2.997	2.992	0.005	93	22015		5.49	
18 Ethanol	45		3.150					ND	
31 2-Methyl-2-propanol	59		3.241					ND	
32 Acrylonitrile	53		3.314					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
33 trans-1,2-Dichloroethene	96		3.339					ND	
34 Methyl tert-butyl ether	73		3.363					ND	
35 Hexane	57		3.722					ND	
38 Vinyl acetate	43		3.728					ND	
36 1,1-Dichloroethane	63		3.965					ND	
37 2-Chloro-1,3-butadiene	53		4.063					ND	
39 Isopropyl ether	45		4.099					ND	
40 Tert-butyl ethyl ether	59		4.641					ND	
41 2,2-Dichloropropane	77		4.793					ND	
42 cis-1,2-Dichloroethene	96		4.805					ND	
43 2-Butanone (MEK)	43		4.859					ND	
44 Propionitrile	54		4.926					ND	
45 Ethyl acetate	43		4.945					ND	
47 Methacrylonitrile	41		5.115					ND	
46 Chlorobromomethane	128		5.127					ND	
48 Tetrahydrofuran	42		5.145					ND	
49 Chloroform	83		5.291					ND	
50 1,1,1-Trichloroethane	97		5.437					ND	
51 Cyclohexane	56		5.510					ND	
53 Carbon tetrachloride	117		5.620					ND	
52 1,1-Dichloropropene	75		5.650					ND	
54 Benzene	78		5.875					ND	
59 Isobutyl alcohol	41		5.936					ND	
55 1,2-Dichloroethane	62		5.985					ND	
57 Isooctane	57		6.052					ND	
56 Tert-amyl methyl ether	73		6.101					ND	
58 n-Heptane	43		6.295					ND	
61 Trichloroethene	130		6.666					ND	
62 Ethyl acrylate	55		6.837					ND	
63 Methylcyclohexane	83		6.904					ND	
64 1,2-Dichloropropane	63		6.952					ND	
65 Dibromomethane	93		7.043					ND	
67 1,4-Dioxane	88		7.050					ND	
60 n-Butanol	56		7.080					ND	
66 Methyl methacrylate	69		7.080					ND	
68 Dichlorobromomethane	83		7.262					ND	
69 2-Nitropropane	41		7.494					ND	
70 2-Chloroethyl vinyl ether	63		7.597					ND	
74 trans-1,3-Dichloropropene	75		7.725					ND	
72 4-Methyl-2-pentanone (MIBK	43		7.895					ND	
73 Toluene	91		8.047					ND	
71 cis-1,3-Dichloropropene	75		8.327					ND	
75 Ethyl methacrylate	69		8.412					ND	
76 1,1,2-Trichloroethane	97		8.516					ND	
77 Tetrachloroethene	164		8.558					ND	
78 1,3-Dichloropropane	76		8.674					ND	
79 2-Hexanone	43		8.753					ND	
81 Chlorodibromomethane	129		8.881					ND	
80 n-Butyl acetate	43		8.893					ND	
82 Ethylene Dibromide	107		8.984					ND	
84 Chlorobenzene	112		9.477					ND	
85 1,1,1,2-Tetrachloroethane	131		9.586					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 Ethylbenzene	106		9.592					ND	
87 m-Xylene & p-Xylene	106		9.726					ND	
88 o-Xylene	106		10.103					ND	
89 Styrene	104		10.128					ND	
90 Bromoform	173		10.298					ND	
91 Isopropylbenzene	105		10.481					ND	
83 4-Chlorobenzotrifluoride	180		10.528					ND	
92 Cyclohexanone	55		10.554					ND	
94 Bromobenzene	156		10.773					ND	
93 1,1,2,2-Tetrachloroethane	83		10.803					ND	
96 trans-1,4-Dichloro-2-buten	53		10.846					ND	
95 1,2,3-Trichloropropane	110		10.852					ND	
97 N-Propylbenzene	120		10.894					ND	
98 2-Chlorotoluene	126		10.967					ND	
99 1,3,5-Trimethylbenzene	105		11.089					ND	
100 4-Chlorotoluene	126		11.095					ND	
101 tert-Butylbenzene	119		11.393					ND	
102 Pentachloroethane	167		11.411					ND	
103 1,2,4-Trimethylbenzene	105		11.454					ND	
104 sec-Butylbenzene	105		11.618					ND	
105 1,3-Dichlorobenzene	146		11.716					ND	
106 4-Isopropyltoluene	119		11.783					ND	
107 1,4-Dichlorobenzene	146		11.825					ND	
108 1,2,3-Trimethylbenzene	105		11.856					ND	
109 Benzyl chloride	91		11.941					ND	
111 1,2-Dichlorobenzene	146		12.172					ND	
110 n-Butylbenzene	91		12.184					ND	
112 1,2-Dibromo-3-Chloropropan	75		12.963					ND	
114 1,3,5-Trichlorobenzene	180		13.145					ND	
113 1,2,4-Trichlorobenzene	180		13.772					ND	
115 Hexachlorobutadiene	225		13.930					ND	
116 Naphthalene	128		14.027					ND	
117 1,2,3-Trichlorobenzene	180		14.246					ND	
118 2-Methylnaphthalene	142		15.171					ND	
121 2,4,5-Trichlorotoluene	159		0.000					ND	
125 2-Chlorobenzotrifluoride	180		0.000					ND	
119 1,2-dichloro-4-(trifluorom	214		0.000					ND	
123 2,5-Dichlorobenzotrifluori	214		0.000					ND	
126 2,4-Dichloro-1-(triflourom	214		0.000					ND	
124 3-Chlorobenzotrifluoride	180		0.000					ND	
128 2,3,6-Trichlorotoluene	159		0.000					ND	
120 2,4- & 2,5- & 2,6- Dichlor	125		0.000					ND	
127 2,3- & 3,4- Dichlorotoluen	125		0.000					ND	
122 3-Chlorotoluene	126		0.000					ND	
S 129 1,2-Dichloroethene, Total	96		1.000					ND	
S 130 Xylenes, Total	106		1.000					ND	
S 131 1,3-Dichloropropene, Total	1		0.000					ND	
T 133 Methyl n-amyl ketone TIC	43		0.000					ND	
T 132 Tetrahydrofuran TIC	42		6.255					ND	
T 134 Mesityl oxide TIC	83		7.915					ND	

Reagents:

VOA8260INT_00032	Amount Added:	10.00	Units: uL	Run Reagent
VOA8260SURR_00035	Amount Added:	10.00	Units: uL	Run Reagent

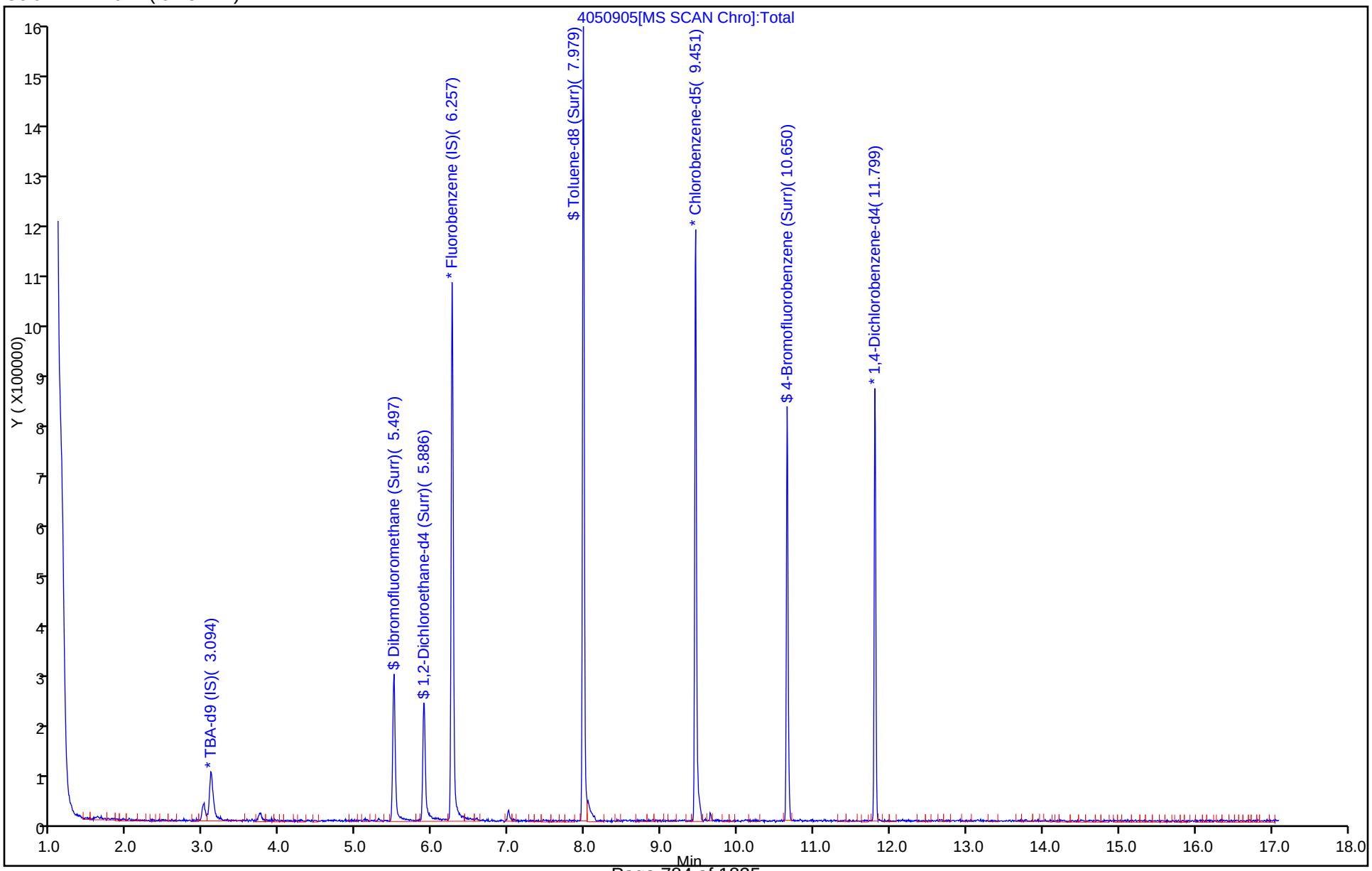
Report Date: 10-May-2015 12:48:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050905.D

Injection Date:	09-May-2015 14:00:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Report Date: 10-May-2015 12:48:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050905.D

Injection Date: 09-May-2015 14:00:30 Instrument ID: CHHP4

Lims ID: mb

Client ID:

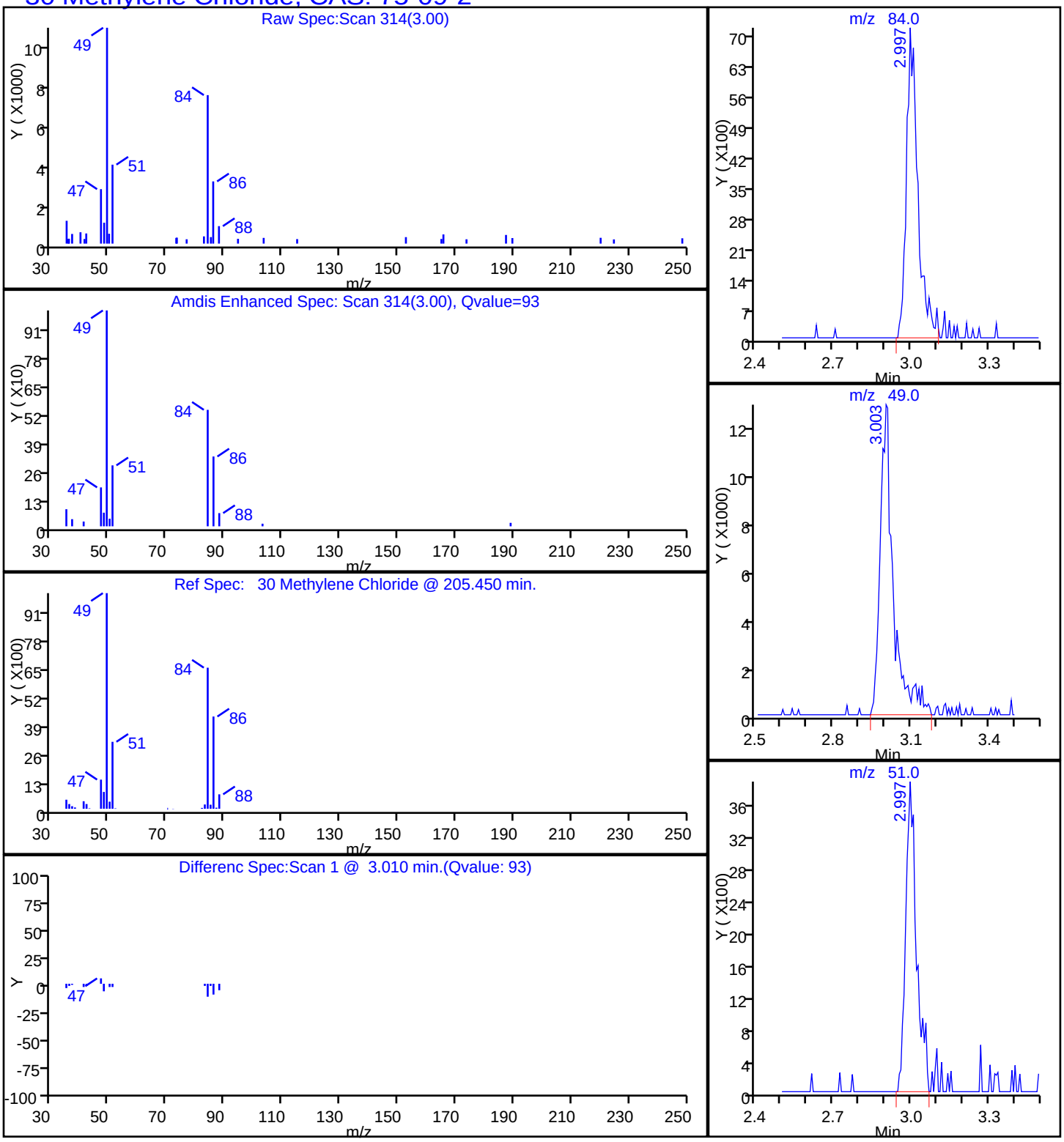
Operator ID: 034635 ALS Bottle#: 12 Worklist Smp#: 5

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVOA_CHHP4 Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-140962/17

Matrix: Water | Lab File ID: 7050817.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 0.5(mL) | Date Analyzed: 05/08/2015 17:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 140962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	366		50	10
79-34-5	1,1,2,2-Tetrachloroethane	306		50	9.3
79-00-5	1,1,2-Trichloroethane	351		50	12
75-34-3	1,1-Dichloroethane	361		50	10
75-35-4	1,1-Dichloroethene	388		50	11
95-50-1	1,2-Dichlorobenzene	385		50	6.8
107-06-2	1,2-Dichloroethane	336		50	9.6
78-87-5	1,2-Dichloropropane	361		50	13
541-73-1	1,3-Dichlorobenzene	360		50	5.1
106-46-7	1,4-Dichlorobenzene	365		50	5.3
107-13-1	Acrylonitrile	2960		500	90
71-43-2	Benzene	389		50	9.9
75-25-2	Bromoform	310		50	11
74-83-9	Bromomethane	581		50	16
56-23-5	Carbon tetrachloride	402		50	11
108-90-7	Chlorobenzene	380		50	5.3
67-66-3	Chloroform	407		50	10
74-87-3	Chloromethane	319		50	14
124-48-1	Chlorodibromomethane	362		50	6.5
10061-01-5	cis-1,3-Dichloropropene	357		50	7.3
75-27-4	Dichlorobromomethane	384		50	9.3
100-41-4	Ethylbenzene	351		50	6.2
75-09-2	Methylene Chloride	388		50	11
127-18-4	Tetrachloroethene	370		50	8.2
108-88-3	Toluene	413		50	8.5
156-60-5	trans-1,2-Dichloroethene	383		50	7.5
10061-02-6	trans-1,3-Dichloropropene	348		50	5.8
79-01-6	Trichloroethene	427		50	8.0
75-01-4	Vinyl chloride	312		50	13
75-00-3	Chloroethane	455		50	7.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-140962/17

Matrix: Water Lab File ID: 7050817.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 0.5(mL) Date Analyzed: 05/08/2015 17:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 140962 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		62-123
460-00-4	4-Bromofluorobenzene (Surr)	82		75-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	90		80-120

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 08-May-2015 17:14:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcs
Misc. Info.: 180-0006830-017
Operator ID: 034635 Instrument ID: CHHP7

Method: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\MSVOA_CHHP7.m
Limit Group: VOA 8260C ICAL
Last Update: 08-May-2015 17:48:46 Calib Date: 13-Jan-2015 14:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP7\20150113-5249.b\7011309.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: journetp Date: 08-May-2015 17:48:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.733	4.689	0.044	58	129628	5000.0	5000.0	M
* 2 Fluorobenzene (IS)	96	7.403	7.408	-0.005	96	637309	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.463	10.462	0.001	85	178149	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.787	12.786	0.001	95	171459	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.673	6.675	-0.002	87	189353	250.0	245.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.038	7.040	-0.002	65	146435	250.0	195.9	
$ 7 Toluene-d8 (Surr)	98	9.034	9.035	-0.001	93	590009	250.0	224.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.631	11.633	-0.002	89	209819	250.0	205.5	
10 Dichlorodifluoromethane	85	1.940	1.954	-0.014	4	149788	200.0	175.3	M
11 Chloromethane	50	2.025	2.057	-0.032	78	152975	200.0	159.6	M
13 Butadiene	39	2.190	2.203	-0.013	88	137946	200.0	160.0	M
12 Vinyl chloride	62	2.196	2.203	-0.007	75	120822	200.0	156.0	M
14 Bromomethane	94	2.506	2.489	0.017	92	177246	200.0	290.3	M
15 Chloroethane	64	2.591	2.641	-0.050	1	140987	200.0	227.4	M
16 Trichlorofluoromethane	101	2.914	2.873	0.041	78	404553	200.0	243.3	M
17 Dichlorofluoromethane	67	2.889	2.891	-0.002	95	388925	200.0	233.2	M
18 Ethyl ether	59	3.309	3.304	0.005	52	76957	200.0	155.2	M
20 1,1-Dichloroethene	96	3.534	3.566	-0.032	65	167137	200.0	194.2	M
21 1,1,2-Trichloro-1,2,2-trif	101	3.662	3.712	-0.050	36	198060	200.0	193.8	M
23 Iodomethane	142	3.741	3.797	-0.056	81	331315	200.0	202.4	M
22 Acetone	43	3.820	3.803	0.017	21	33688	200.0	166.2	M
24 Carbon disulfide	76	3.796	3.828	-0.032	99	491816	200.0	180.1	M
26 3-Chloro-1-propene	76	4.124	4.138	-0.014	58	102839	200.0	176.6	M
28 Methyl acetate	43	4.282	4.290	-0.008	96	227825	1000.0	747.8	M
29 Methylene Chloride	84	4.362	4.363	-0.001	1	166555	200.0	193.8	M
30 trans-1,2-Dichloroethene	96	4.769	4.765	0.005	96	176064	200.0	191.5	M
31 Acrylonitrile	53	4.812	4.819	-0.007	93	194908	2000.0	1477.7	M
32 2-Methyl-2-propanol	59	4.830	4.825	0.005	43	61173	2000.0	2115.3	M
33 Methyl tert-butyl ether	73	4.848	4.838	0.010	50	317662	200.0	170.7	M
34 Hexane	57	5.140	5.166	-0.026	90	168652	200.0	160.6	M
36 1,1-Dichloroethane	63	5.359	5.355	0.004	95	251447	200.0	180.7	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	77	6.089	6.097	-0.008	88	265377	200.0	195.7	
41 cis-1,2-Dichloroethene	96	6.101	6.115	-0.014	77	173341	200.0	187.8	
43 2-Butanone (MEK)	43	6.180	6.176	0.004	86	32201	200.0	170.8	
46 Chlorobromomethane	128	6.369	6.377	-0.008	36	82668	200.0	189.6	M
48 Tetrahydrofuran	42	6.472	6.474	-0.002	41	27985	400.0	309.5	
49 Chloroform	83	6.491	6.492	-0.001	94	292912	200.0	203.3	
50 1,1,1-Trichloroethane	97	6.667	6.675	-0.008	97	272316	200.0	183.2	
52 Cyclohexane	56	6.728	6.729	-0.001	86	184291	200.0	149.1	
51 Isobutyl alcohol	41	6.728	6.736	-0.008	51	143161	5000.0	4253.2	
53 Carbon tetrachloride	117	6.862	6.863	-0.001	96	290344	200.0	201.1	
54 1,1-Dichloropropene	75	6.856	6.869	-0.013	83	177244	200.0	194.5	
55 Benzene	78	7.093	7.088	0.005	96	544002	200.0	194.6	
56 1,2-Dichloroethane	62	7.123	7.131	-0.008	96	141209	200.0	168.2	
59 n-Heptane	43	7.403	7.405	-0.002	57	158525	200.0	170.4	
60 Trichloroethene	130	7.793	7.794	-0.001	90	199874	200.0	213.6	
63 Methylcyclohexane	83	7.987	7.989	-0.002	88	269166	200.0	185.7	
64 1,2-Dichloropropane	63	8.024	8.025	-0.001	25	100565	200.0	180.6	M
65 Dibromomethane	93	8.145	8.153	-0.008	95	67629	200.0	168.5	
67 1,4-Dioxane	88	8.170	8.196	-0.026	34	8597	4000.0	3801.2	
68 Dichlorobromomethane	83	8.316	8.317	-0.001	98	189485	200.0	191.9	
71 cis-1,3-Dichloropropene	75	8.766	8.767	-0.001	91	175311	200.0	178.5	
72 4-Methyl-2-pentanone (MIBK	43	8.936	8.938	-0.002	96	55510	200.0	135.0	
73 Toluene	91	9.101	9.102	-0.001	97	613423	200.0	206.5	
74 trans-1,3-Dichloropropene	75	9.320	9.327	-0.007	94	145143	200.0	174.0	
75 Ethyl methacrylate	69	9.423	9.418	0.005	87	83983	200.0	144.5	
76 1,1,2-Trichloroethane	97	9.508	9.504	0.004	86	86711	200.0	175.6	
77 Tetrachloroethene	164	9.642	9.643	-0.001	91	130935	200.0	184.8	
78 1,3-Dichloropropane	76	9.672	9.674	-0.002	91	122777	200.0	159.4	
79 2-Hexanone	43	9.758	9.765	-0.007	96	41953	200.0	153.1	
81 Chlorodibromomethane	129	9.897	9.899	-0.002	88	147110	200.0	180.8	
82 Ethylene Dibromide	107	10.007	10.008	-0.001	96	88638	200.0	168.4	
83 Chlorobenzene	112	10.494	10.495	-0.001	94	404401	200.0	190.0	
84 1,1,1,2-Tetrachloroethane	131	10.573	10.580	-0.007	91	159281	200.0	179.8	
85 Ethylbenzene	106	10.603	10.605	-0.002	98	203480	200.0	175.7	
86 m-Xylene & p-Xylene	106	10.719	10.720	-0.001	99	264697	200.0	177.8	
88 o-Xylene	106	11.114	11.116	-0.002	95	265076	200.0	176.4	
89 Styrene	104	11.126	11.128	-0.002	94	389325	200.0	172.8	
90 Bromoform	173	11.309	11.316	-0.007	90	64527	200.0	155.2	
91 Isopropylbenzene	105	11.479	11.481	-0.002	96	734173	200.0	171.5	
93 1,1,2,2-Tetrachloroethane	83	11.771	11.773	-0.002	95	76047	200.0	153.2	
94 Bromobenzene	156	11.789	11.785	0.004	87	156730	200.0	230.8	
95 1,2,3-Trichloropropane	110	11.820	11.815	0.005	84	28804	200.0	218.4	
96 trans-1,4-Dichloro-2-buten	53	11.832	11.833	-0.001	67	16882	200.0	183.3	
97 N-Propylbenzene	120	11.887	11.888	-0.001	97	217327	200.0	241.1	
98 2-Chlorotoluene	126	11.978	11.979	-0.001	97	177690	200.0	227.8	
99 1,3,5-Trimethylbenzene	105	12.057	12.059	-0.002	95	508881	200.0	202.0	
100 4-Chlorotoluene	126	12.081	12.089	-0.008	96	174937	200.0	231.7	
101 tert-Butylbenzene	119	12.386	12.387	-0.001	90	532290	200.0	221.8	
103 1,2,4-Trimethylbenzene	105	12.434	12.442	-0.008	96	446326	200.0	181.8	
104 sec-Butylbenzene	105	12.605	12.606	-0.001	94	656159	200.0	204.5	
105 1,3-Dichlorobenzene	146	12.720	12.722	-0.002	96	229128	200.0	180.0	
106 4-Isopropyltoluene	119	12.751	12.752	-0.001	96	507327	200.0	188.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	12.811	12.813	-0.002	93	220546	200.0	182.5	
110 n-Butylbenzene	91	13.158	13.166	-0.008	96	381035	200.0	171.9	
111 1,2-Dichlorobenzene	146	13.189	13.184	0.005	97	191656	200.0	192.6	
112 1,2-Dibromo-3-Chloropropan	157	13.967	13.969	-0.002	80	11265	200.0	178.7	
114 1,2,4-Trichlorobenzene	180	14.813	14.802	0.011	91	19274	200.0	68.1	
115 Hexachlorobutadiene	225	14.965	14.973	-0.008	82	11055	200.0	66.9	
116 Naphthalene	128	15.056	15.052	0.004	94	44073	200.0	86.9	
117 1,2,3-Trichlorobenzene	180	15.312	15.307	0.005	89	4220	200.0	54.7	
S 129 Xylenes, Total	106				0		400.0	354.2	
S 130 1,2-Dichloroethene, Total	96				0		400.0	379.4	
S 131 1,3-Dichloropropene, Total	1				0		400.0	352.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOA2ND_00114	Amount Added:	8.00	Units: uL	
VOA8260INT_00033	Amount Added:	10.00	Units: uL	Run Reagent
VOA8260SURR_00035	Amount Added:	10.00	Units: uL	Run Reagent

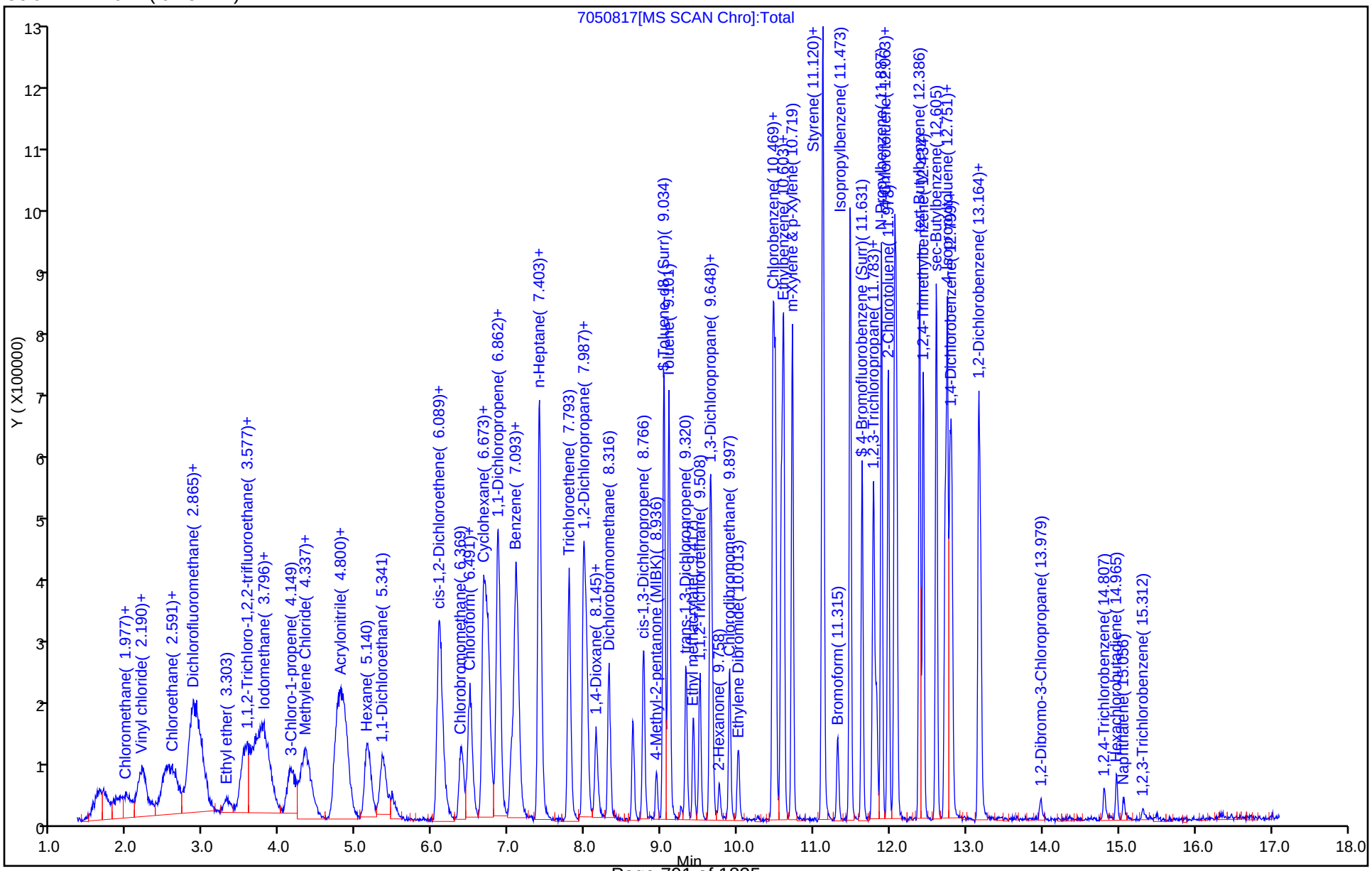
Report Date: 08-May-2015 18:04:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D

Injection Date:	08-May-2015 17:14:30	Instrument ID:	CHHP7	Operator ID:	034635
Lims ID:	lcs			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

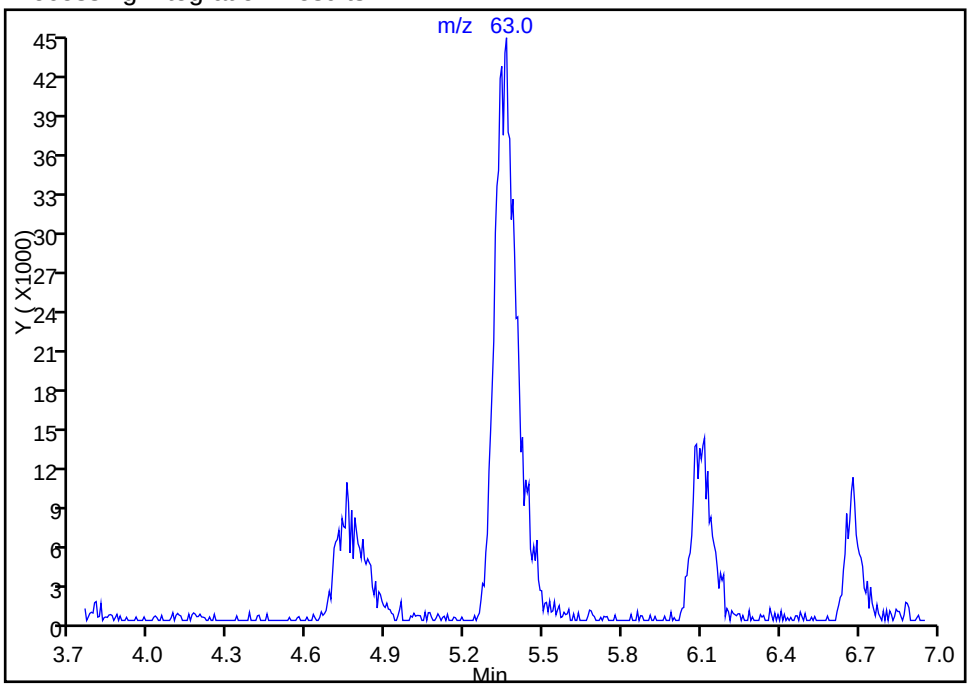
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D				
Injection Date:	08-May-2015 17:14:30	Instrument ID:	CHHP7		
Lims ID:	lcs				
Client ID:					
Operator ID:	034635	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

36 1,1-Dichloroethane, CAS: 75-34-3

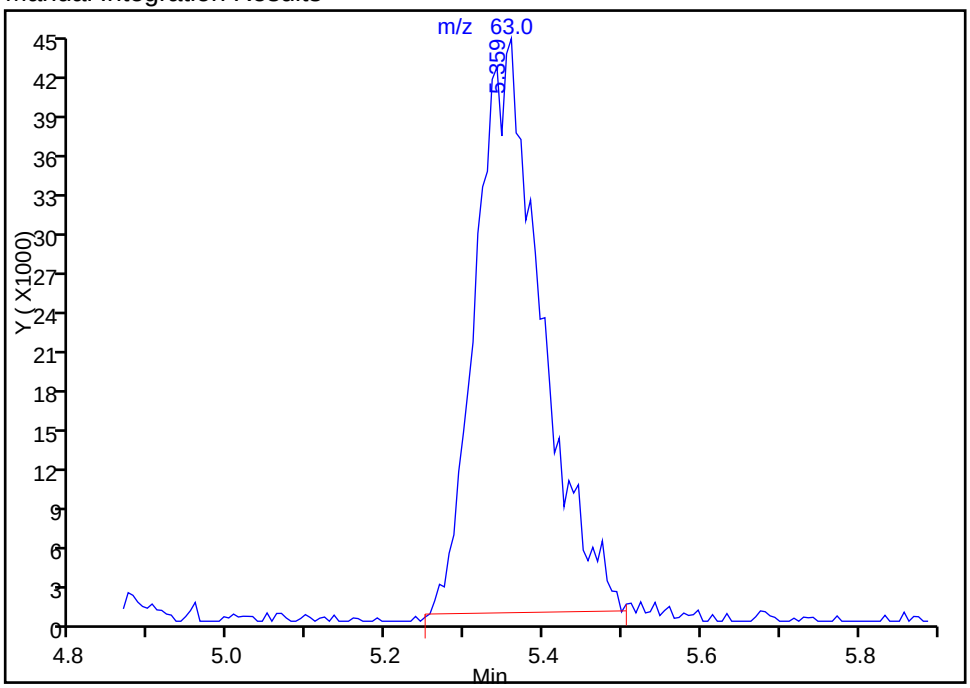
Processing Integration Results

Not Detected
Expected RT: 5.35



Manual Integration Results

RT: 5.36
Area: 251447
Amount: 180.7320
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

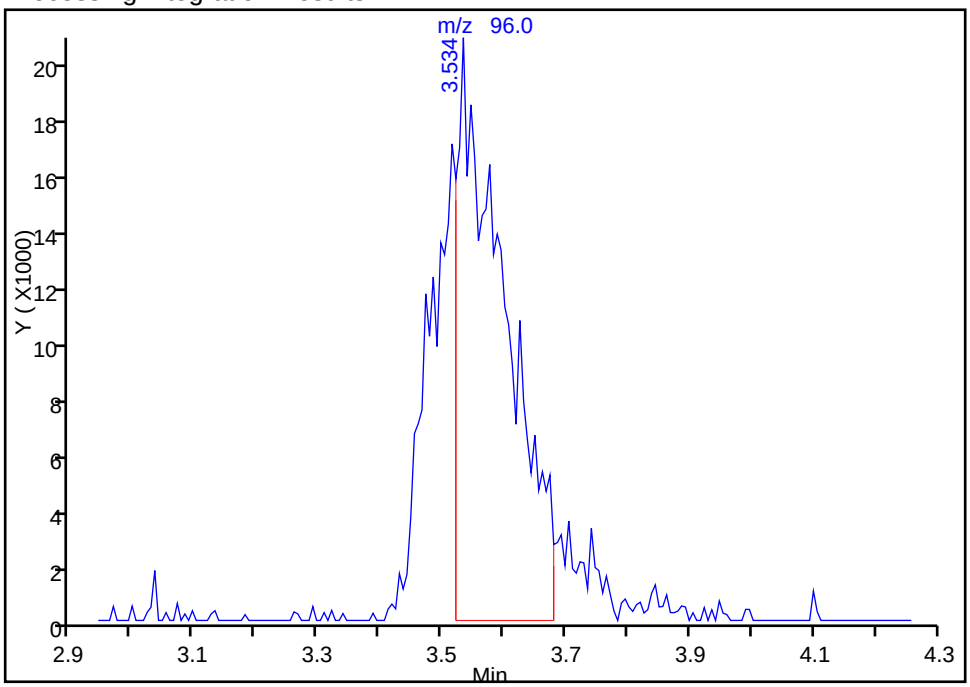
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D				
Injection Date:	08-May-2015 17:14:30	Instrument ID:	CHHP7		
Lims ID:	lcs				
Client ID:					
Operator ID:	034635	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

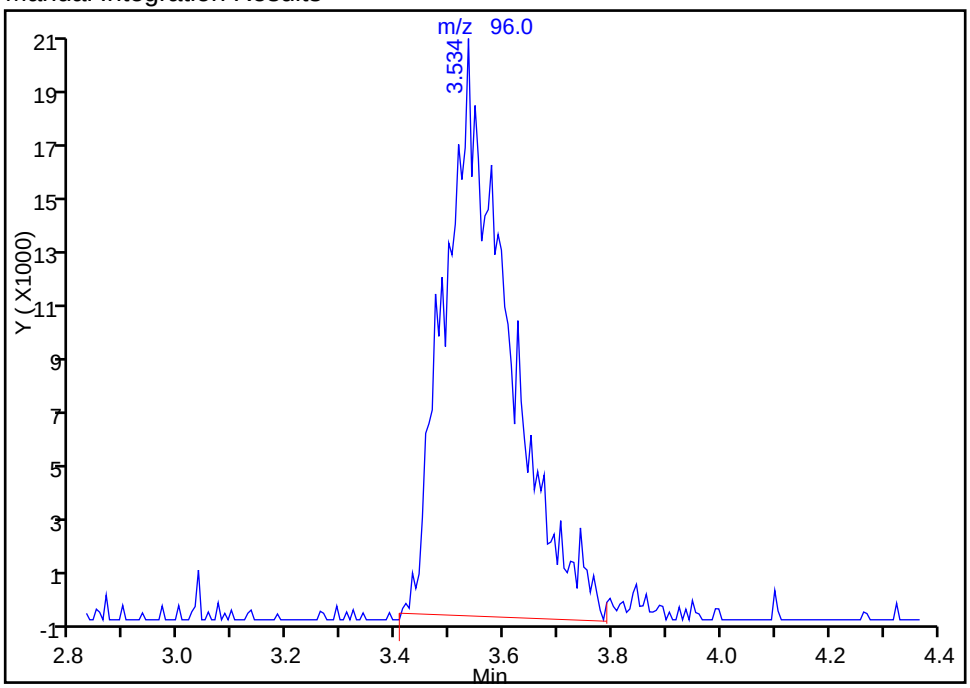
Processing Integration Results

RT: 3.53
Area: 109551
Amount: 127.2703
Amount Units: ng



Manual Integration Results

RT: 3.53
Area: 167137
Amount: 194.1705
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

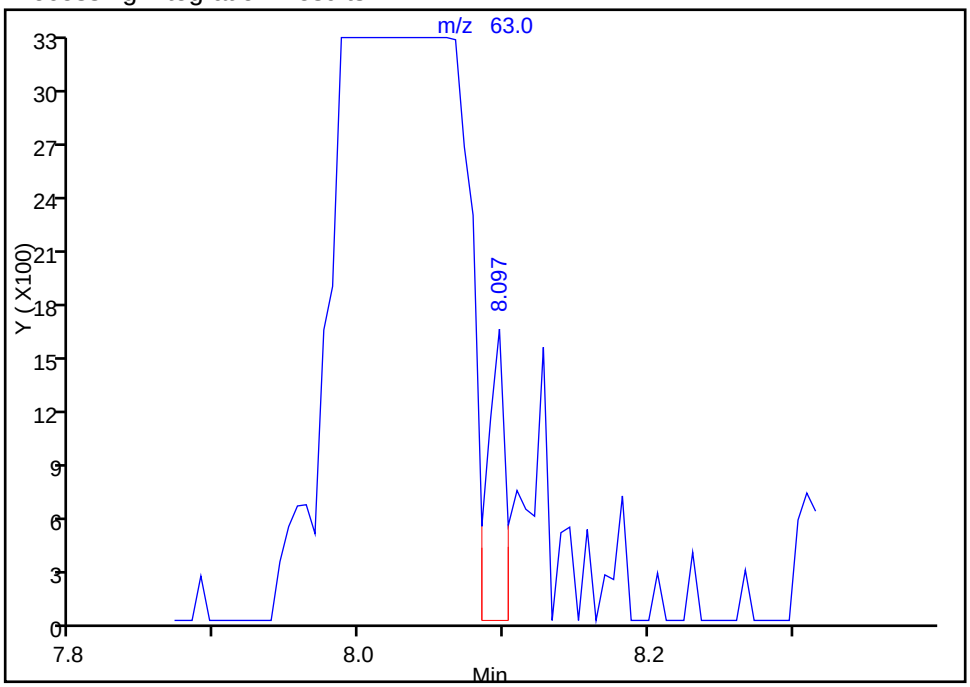
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D
Injection Date: 08-May-2015 17:14:30 Instrument ID: CHHP7
Lims ID: lcs
Client ID:
Operator ID: 034635 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

64 1,2-Dichloropropane, CAS: 78-87-5

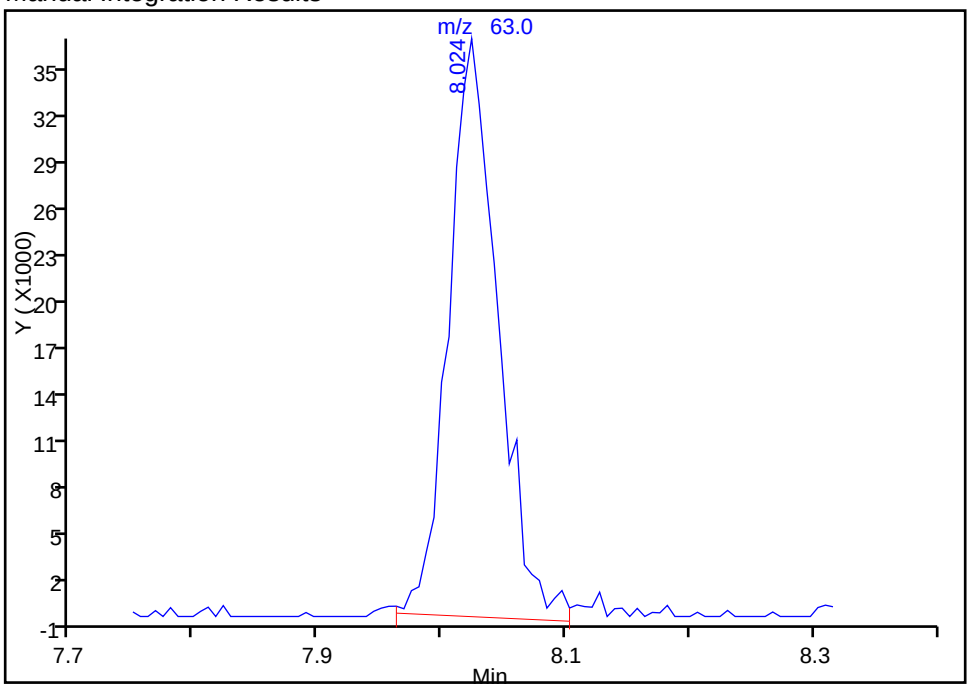
Processing Integration Results

RT: 8.10
Area: 1390
Amount: 2.496553
Amount Units: ng



Manual Integration Results

RT: 8.02
Area: 100565
Amount: 180.6229
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

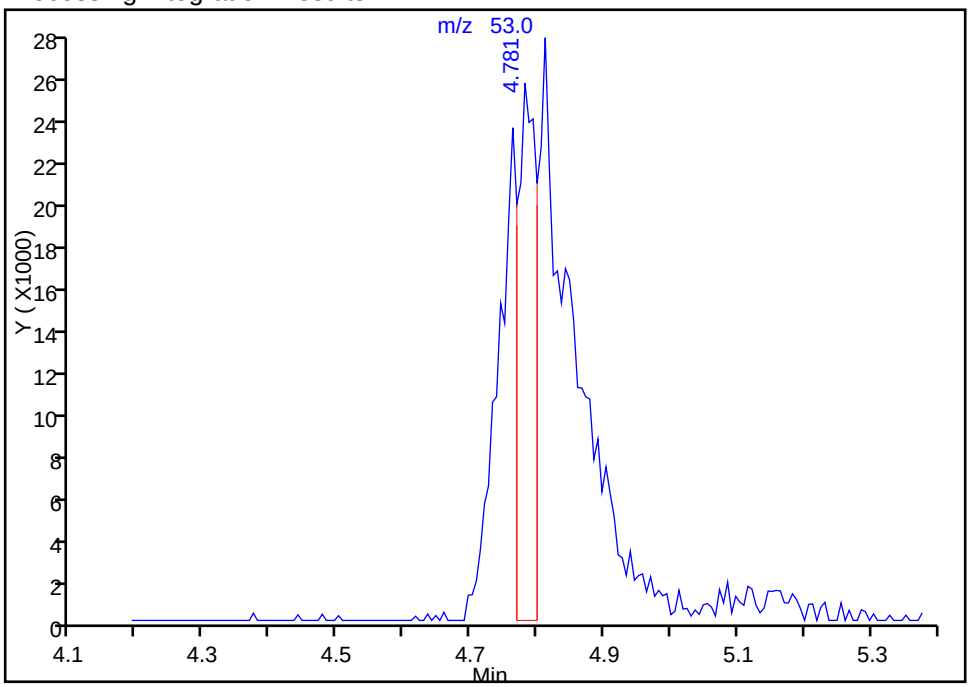
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D				
Injection Date:	08-May-2015 17:14:30	Instrument ID:	CHHP7		
Lims ID:	lcs				
Client ID:					
Operator ID:	034635	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

31 Acrylonitrile, CAS: 107-13-1

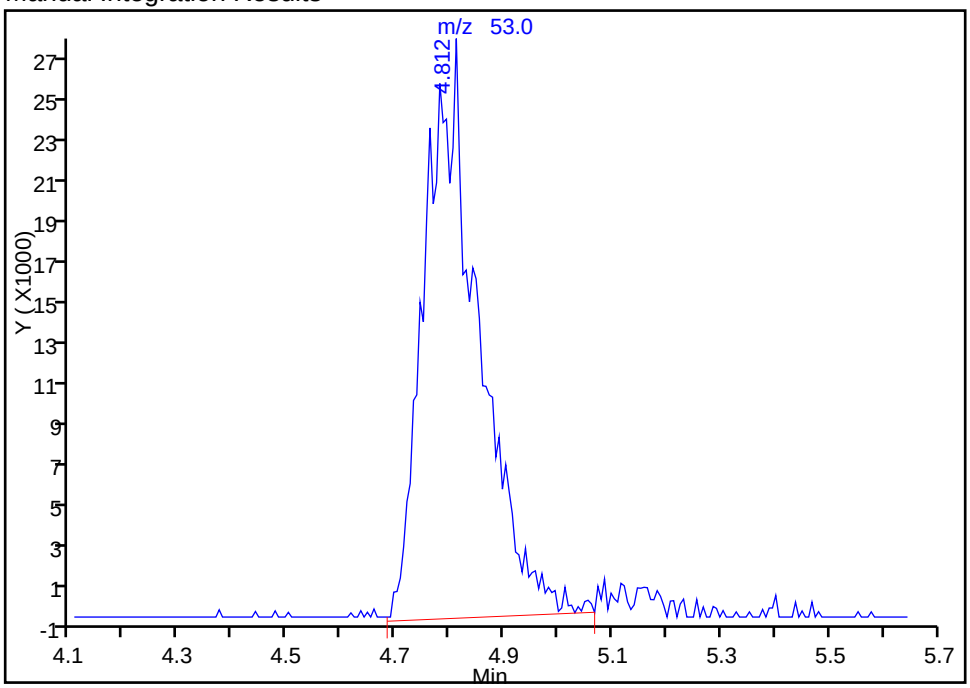
Processing Integration Results

RT: 4.78
Area: 49453
Amount: 374.9171
Amount Units: ng



Manual Integration Results

RT: 4.81
Area: 194908
Amount: 1477.6524
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

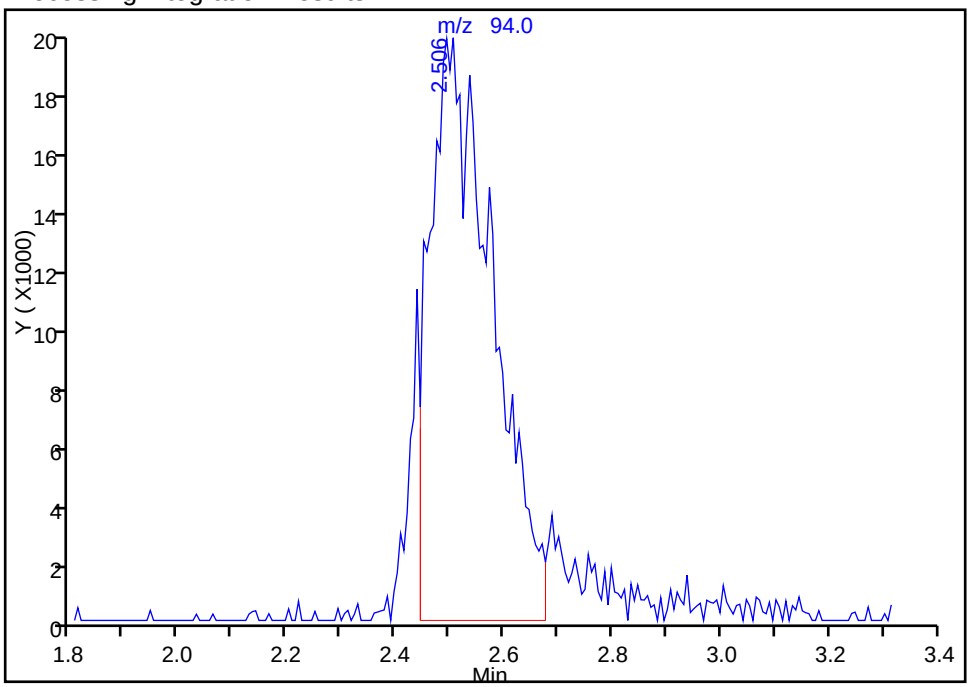
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D				
Injection Date:	08-May-2015 17:14:30	Instrument ID:	CHHP7		
Lims ID:	lcs				
Client ID:					
Operator ID:	034635	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

14 Bromomethane, CAS: 74-83-9

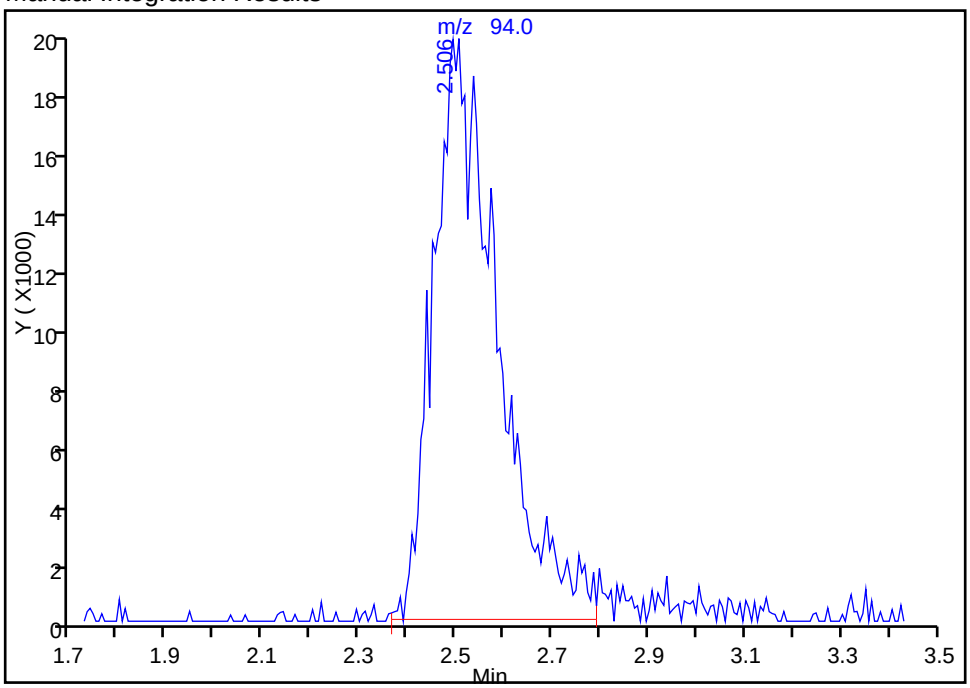
Processing Integration Results

RT: 2.51
Area: 153642
Amount: 250.8300
Amount Units: ng



Manual Integration Results

RT: 2.51
Area: 177246
Amount: 290.2974
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

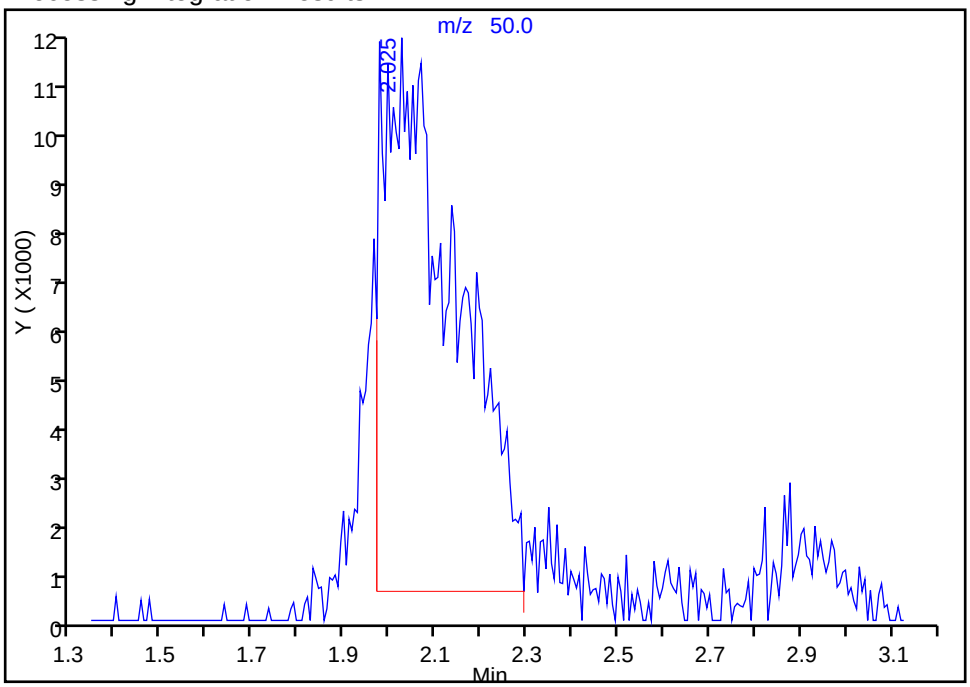
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D				
Injection Date:	08-May-2015 17:14:30	Instrument ID:	CHHP7		
Lims ID:	lcs				
Client ID:					
Operator ID:	034635	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Chloromethane, CAS: 74-87-3

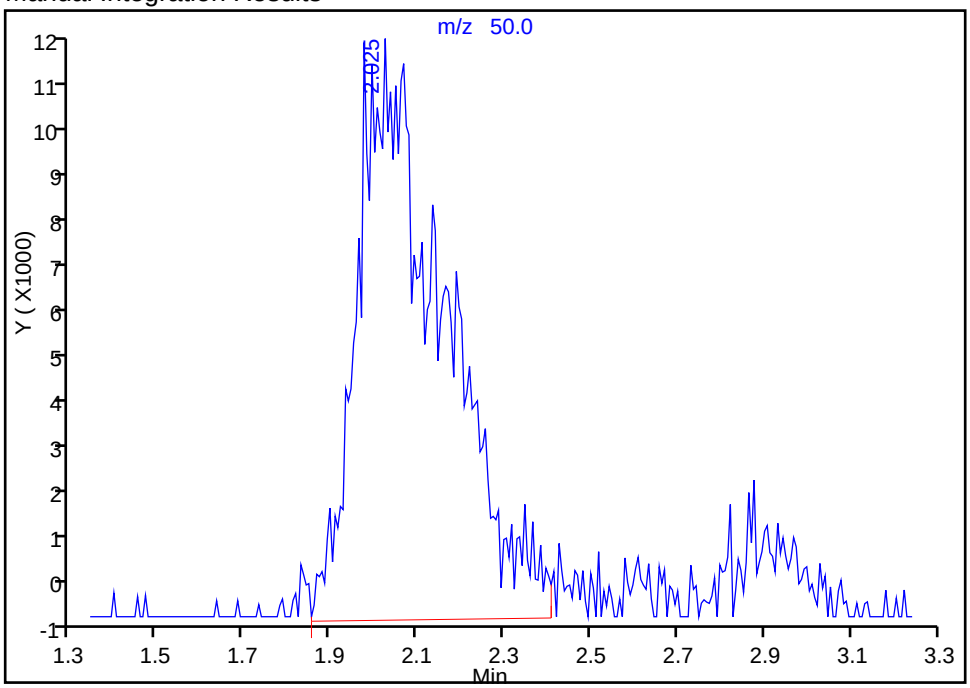
Processing Integration Results

RT: 2.03
Area: 115437
Amount: 120.4597
Amount Units: ng



Manual Integration Results

RT: 2.03
Area: 152975
Amount: 159.6310
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

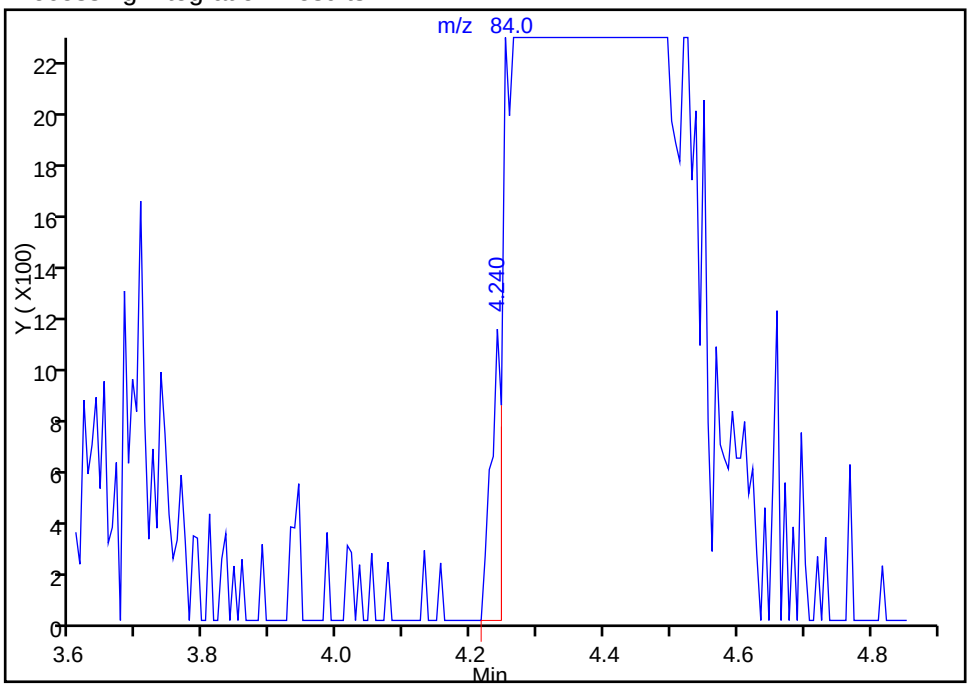
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D				
Injection Date:	08-May-2015 17:14:30	Instrument ID:	CHHP7		
Lims ID:	lcs				
Client ID:					
Operator ID:	034635	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

29 Methylene Chloride, CAS: 75-09-2

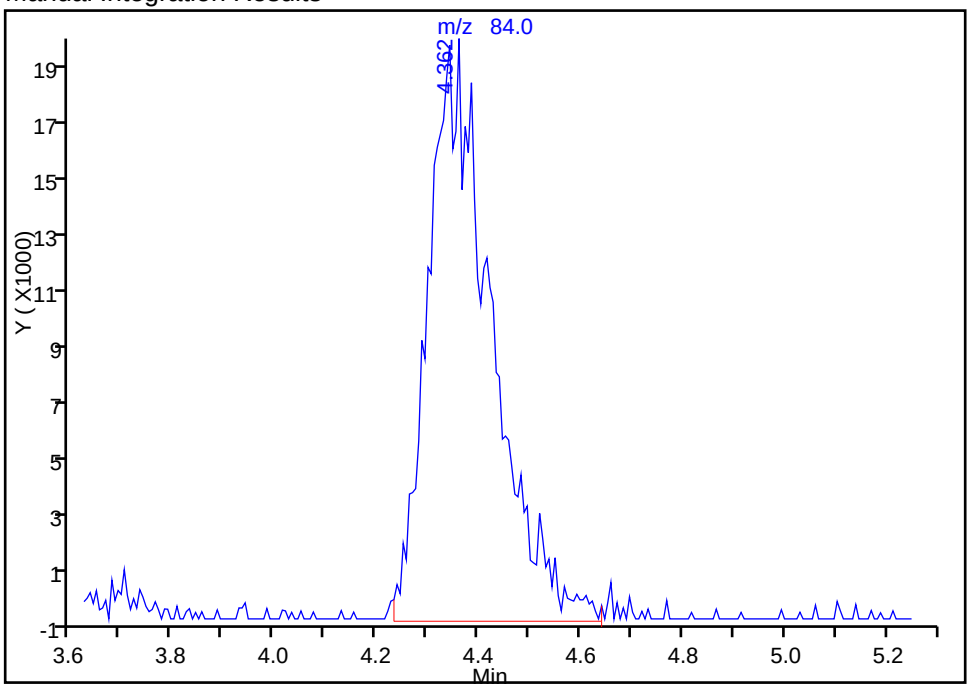
Processing Integration Results

RT: 4.24
Area: 1265
Amount: 1.471581
Amount Units: ng



Manual Integration Results

RT: 4.36
Area: 166555
Amount: 193.7542
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

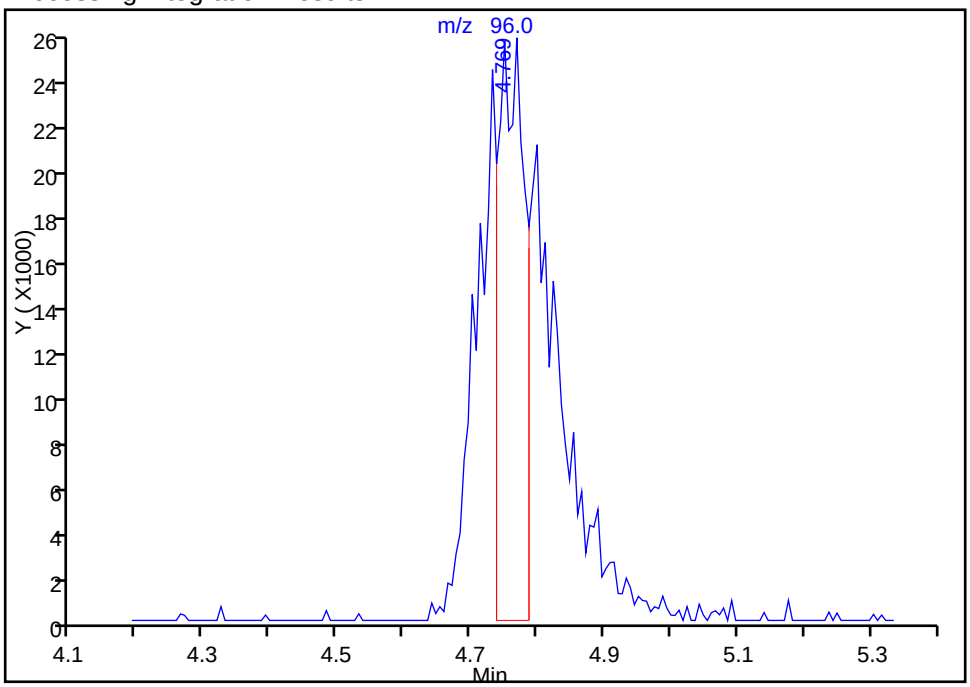
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D
Injection Date: 08-May-2015 17:14:30 Instrument ID: CHHP7
Lims ID: lcs
Client ID:
Operator ID: 034635 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_CHHP7 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

30 trans-1,2-Dichloroethene, CAS: 156-60-5

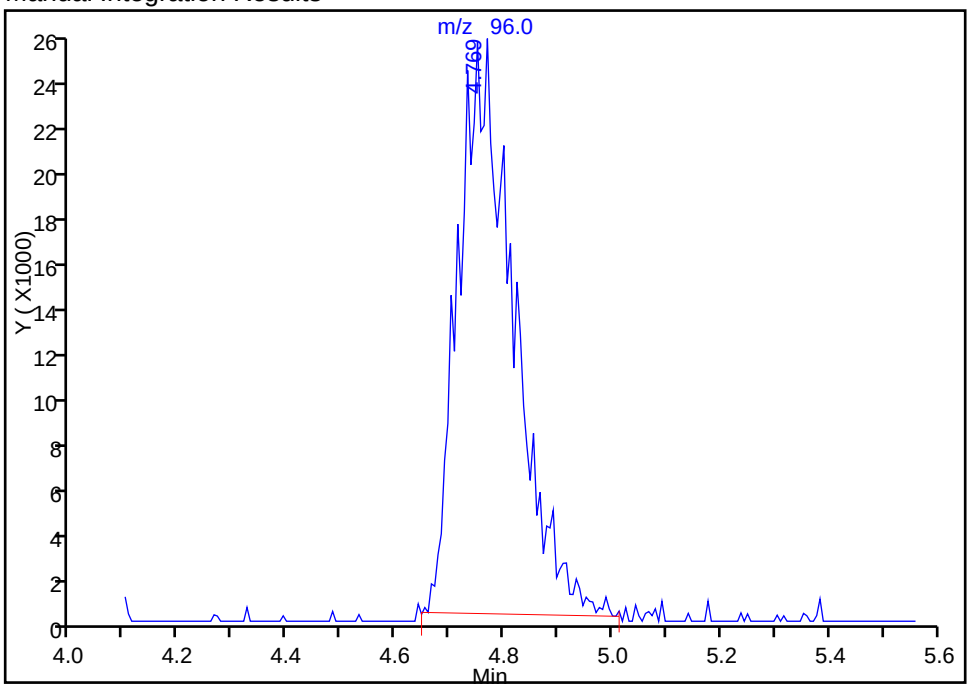
Processing Integration Results

RT: 4.77
Area: 69140
Amount: 75.208347
Amount Units: ng



Manual Integration Results

RT: 4.77
Area: 176064
Amount: 191.5170
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

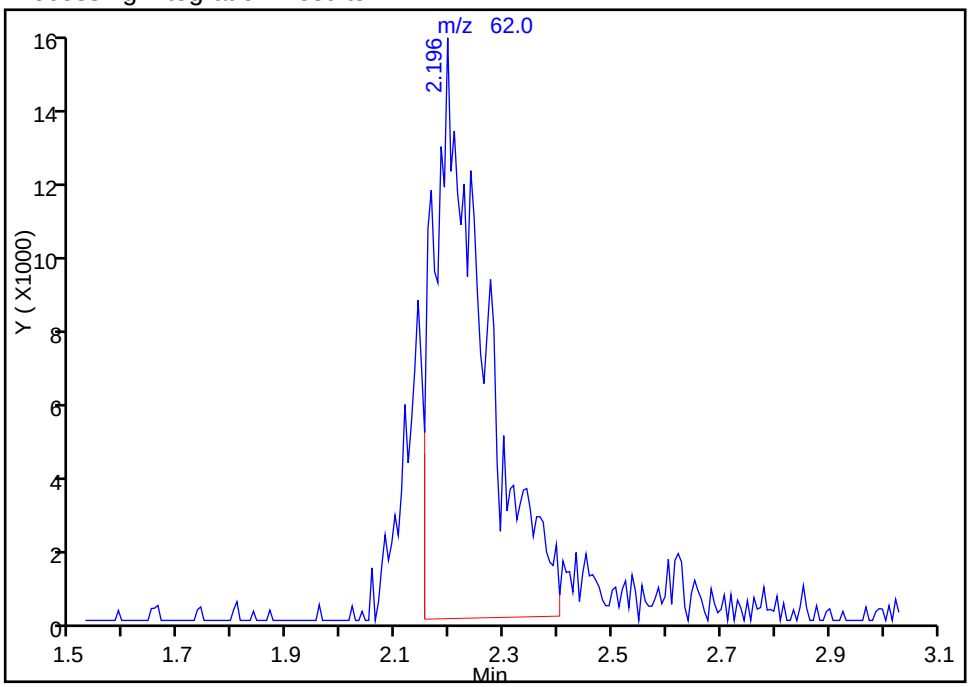
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D				
Injection Date:	08-May-2015 17:14:30	Instrument ID:	CHHP7		
Lims ID:	lcs				
Client ID:					
Operator ID:	034635	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

12 Vinyl chloride, CAS: 75-01-4

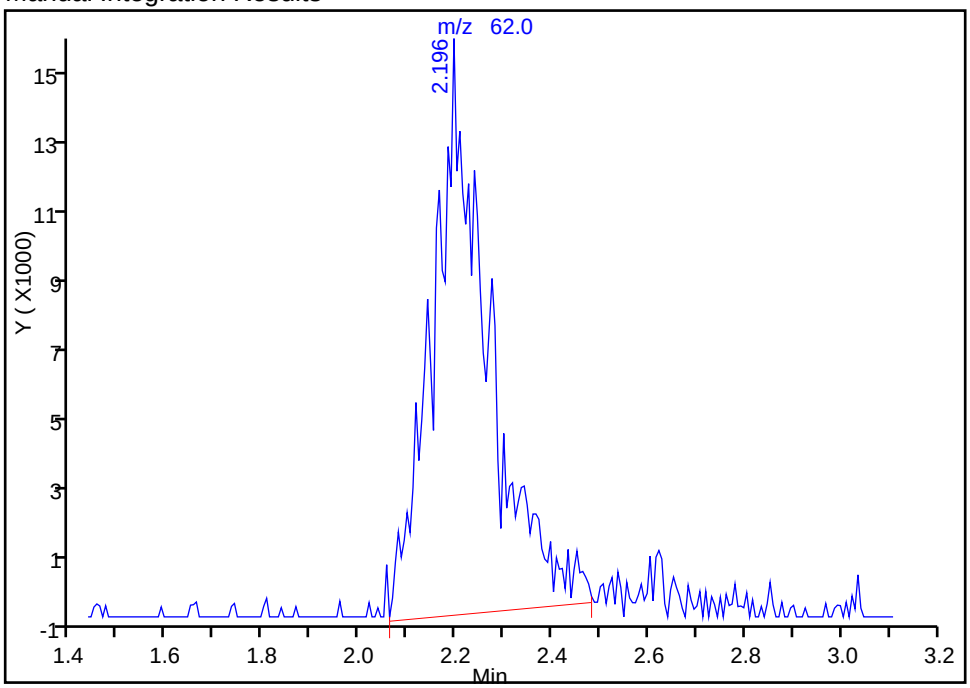
Processing Integration Results

RT: 2.20
Area: 98367
Amount: 126.9983
Amount Units: ng



Manual Integration Results

RT: 2.20
Area: 120822
Amount: 155.9892
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

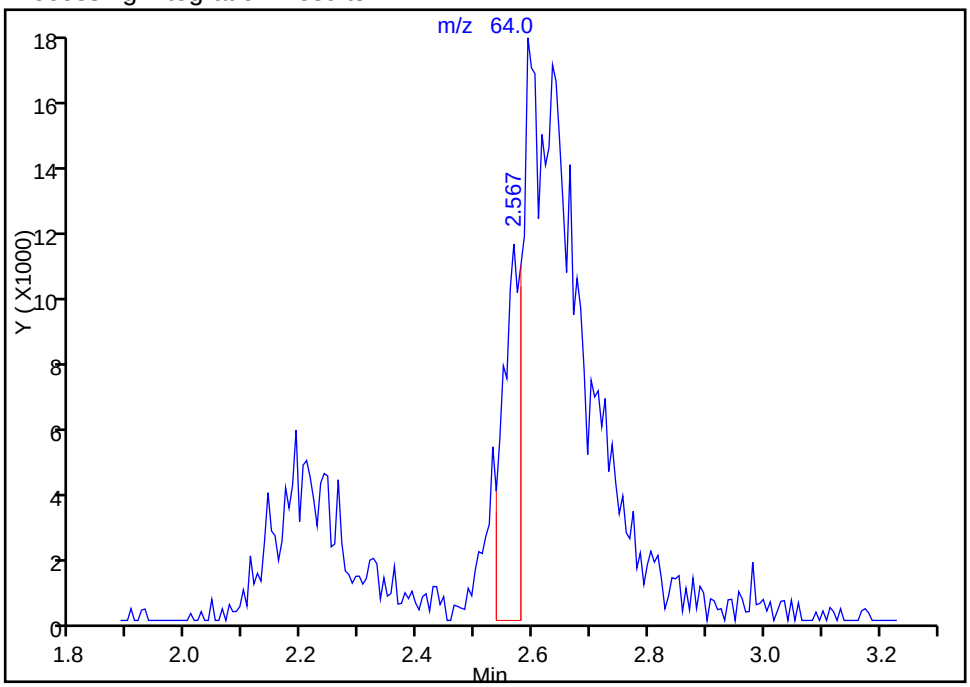
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D				
Injection Date:	08-May-2015 17:14:30	Instrument ID:	CHHP7		
Lims ID:	lcs				
Client ID:					
Operator ID:	034635	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

15 Chloroethane, CAS: 75-00-3

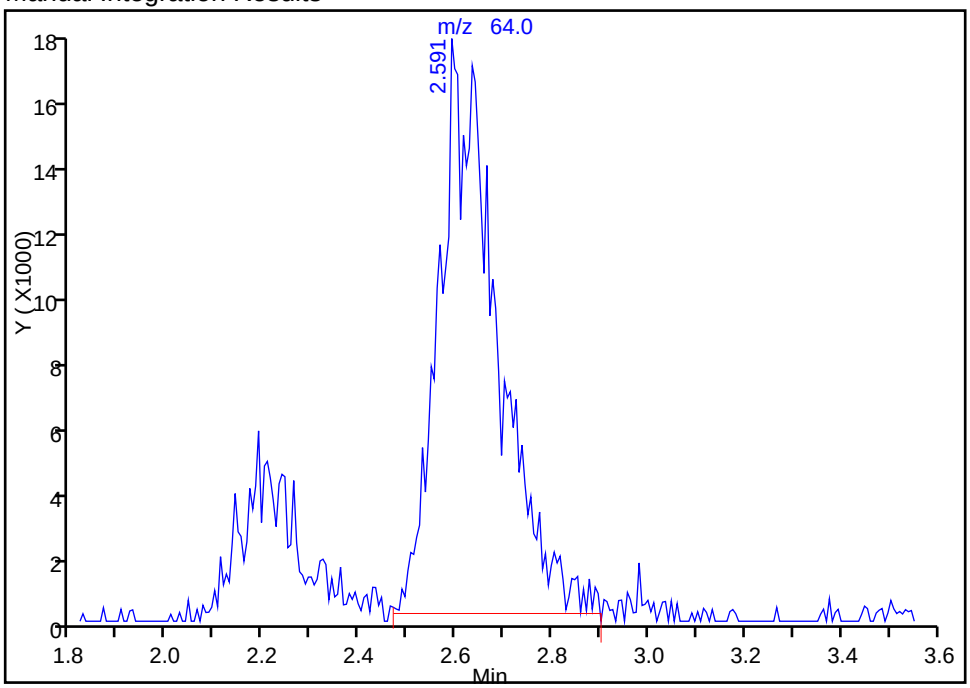
Processing Integration Results

RT: 2.57
Area: 23512
Amount: 50.100323
Amount Units: ng



Manual Integration Results

RT: 2.59
Area: 140987
Amount: 227.4110
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

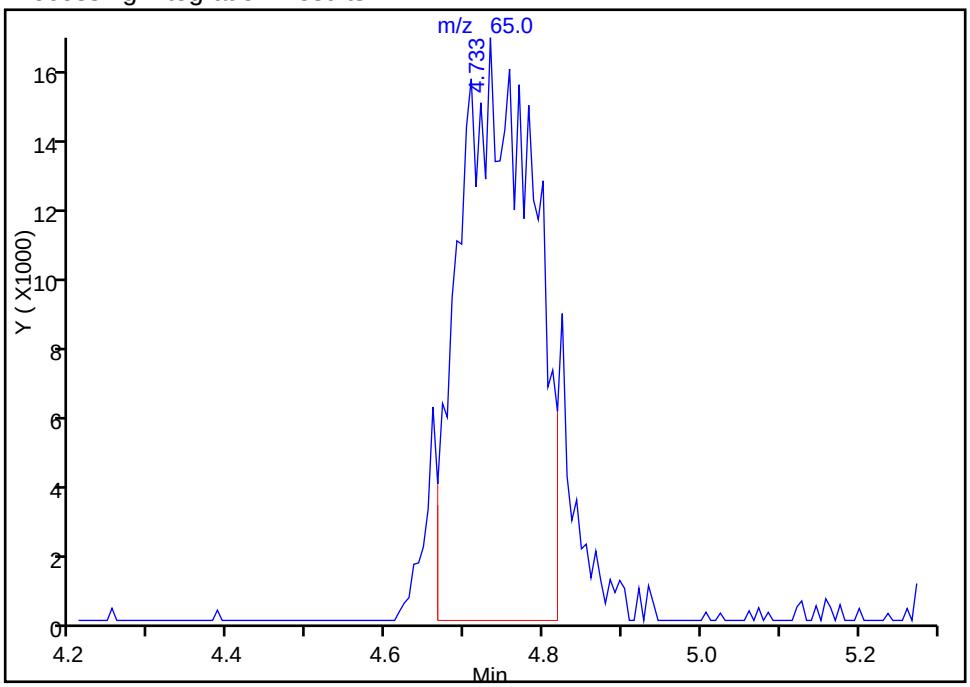
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP7\20150508-6830.b\7050817.D				
Injection Date:	08-May-2015 17:14:30	Instrument ID:	CHHP7		
Lims ID:	lcs				
Client ID:					
Operator ID:	034635	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP7	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

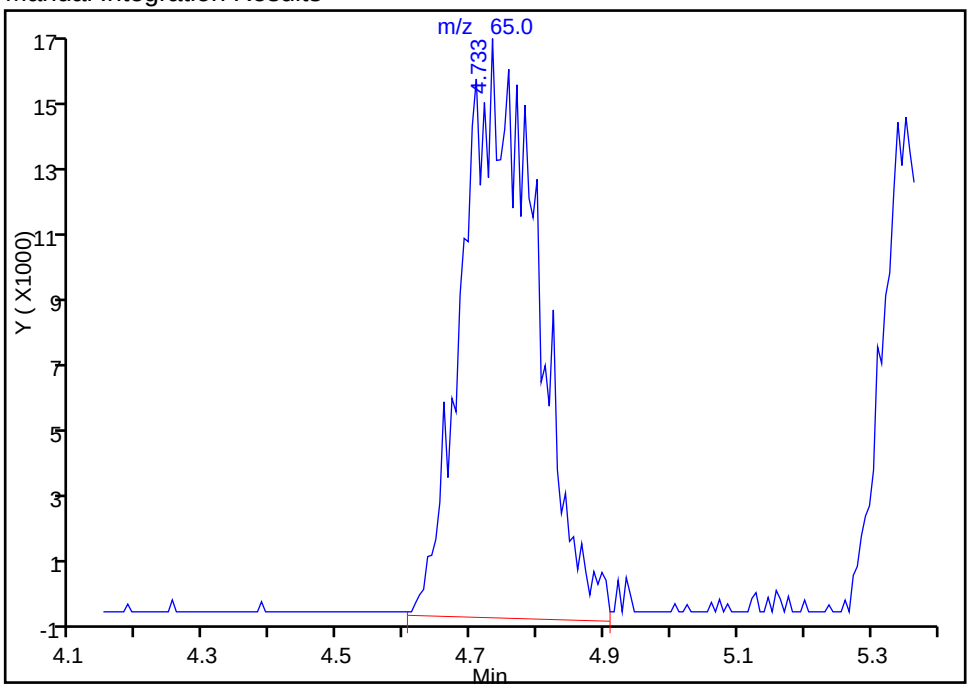
Processing Integration Results

RT: 4.73
Area: 108546
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.73
Area: 129628
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 08-May-2015 17:48:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-141065/9

Matrix: Water | Lab File ID: 4050909.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/09/2015 15:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 141065 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	40.4		5.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	29.9		5.0	0.93
79-00-5	1,1,2-Trichloroethane	31.5		5.0	1.2
75-34-3	1,1-Dichloroethane	38.3		5.0	1.0
75-35-4	1,1-Dichloroethene	38.2		5.0	1.1
95-50-1	1,2-Dichlorobenzene	36.8		5.0	0.68
107-06-2	1,2-Dichloroethane	35.8		5.0	0.96
78-87-5	1,2-Dichloropropane	36.6		5.0	1.3
541-73-1	1,3-Dichlorobenzene	40.9		5.0	0.51
106-46-7	1,4-Dichlorobenzene	38.1		5.0	0.53
110-75-8	2-Chloroethyl vinyl ether	73.4		10	1.9
107-02-8	Acrolein	221		100	5.7
107-13-1	Acrylonitrile	270		50	9.0
71-43-2	Benzene	38.7		5.0	0.99
75-25-2	Bromoform	30.8		5.0	1.1
74-83-9	Bromomethane	45.0		5.0	1.6
56-23-5	Carbon tetrachloride	42.5		5.0	1.1
108-90-7	Chlorobenzene	39.7		5.0	0.53
67-66-3	Chloroform	38.1		5.0	1.0
74-87-3	Chloromethane	40.5		5.0	1.4
124-48-1	Chlorodibromomethane	35.9		5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	34.7		5.0	0.73
75-27-4	Dichlorobromomethane	39.3		5.0	0.93
100-41-4	Ethylbenzene	41.8		5.0	0.62
75-09-2	Methylene Chloride	35.9		5.0	1.1
127-18-4	Tetrachloroethene	40.6		5.0	0.82
108-88-3	Toluene	39.4		5.0	0.85
156-60-5	trans-1,2-Dichloroethene	37.5		5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	37.0		5.0	0.58
79-01-6	Trichloroethene	39.6		5.0	0.80
75-01-4	Vinyl chloride	38.6		5.0	1.3
75-00-3	Chloroethane	44.2		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-141065/9

Matrix: Water Lab File ID: 4050909.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/09/2015 15:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 141065 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		62-123
460-00-4	4-Bromofluorobenzene (Surr)	97		75-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050909.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 09-May-2015 15:48:30 ALS Bottle#: 16 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcs
Misc. Info.: 180-0006844-009
Operator ID: 034635 Instrument ID: CHHP4

Method: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\MSVOA_CHHP4.m
Limit Group: VOA 8260C ICAL
Last Update: 10-May-2015 11:35:24 Calib Date: 27-Apr-2015 13:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHHP4\20150427-6642.b\4042710.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: journetp Date: 10-May-2015 10:50:02

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	3.164	3.144	0.020	99	162242	5000.0	5000.0	
*	2 Fluorobenzene (IS)	96	6.254	6.259	-0.005	98	923359	250.0	250.0	
*	3 Chlorobenzene-d5	119	9.448	9.446	0.002	88	215803	250.0	250.0	
*	4 1,4-Dichlorobenzene-d4	152	11.803	11.801	0.002	95	283557	250.0	250.0	
$	5 Dibromofluoromethane (Surr	113	5.488	5.492	-0.004	93	193934	250.0	254.7	
$	6 1,2-Dichloroethane-d4 (Sur	65	5.883	5.882	0.001	94	199367	250.0	235.2	
$	7 Toluene-d8 (Surr)	98	7.976	7.980	-0.004	94	862590	250.0	251.2	
$	8 4-Bromofluorobenzene (Surr	95	10.647	10.651	-0.004	89	285917	250.0	242.7	
	10 Dichlorodifluoromethane	85	1.205	1.209	-0.004	99	310652	200.0	212.9	
	11 Chloromethane	50	1.309	1.319	-0.010	99	436835	200.0	202.6	
	12 Vinyl chloride	62	1.412	1.410	0.002	98	353292	200.0	192.8	
	13 Butadiene	54	1.430	1.441	-0.011	94	346751	200.0	190.4	
	14 Bromomethane	94	1.649	1.660	-0.011	91	55393	200.0	224.9	
	15 Chloroethane	64	1.741	1.739	0.001	96	67228	200.0	220.9	
	16 Dichlorofluoromethane	67	1.941	1.964	-0.023	97	336262	200.0	378.7	
	17 Trichlorofluoromethane	101	1.905	1.939	-0.034	97	288145	200.0	401.6	
	19 Ethyl ether	59	2.233	2.219	0.014	96	117947	200.0	193.3	
	20 Acrolein	56	2.355	2.359	-0.004	98	56225	875.0	1104.1	
	21 1,1-Dichloroethene	96	2.404	2.414	-0.010	94	192697	200.0	190.9	
	22 1,1,2-Trichloro-1,2,2-trif	101	2.458	2.487	-0.029	95	228777	200.0	189.2	
	23 Acetone	43	2.525	2.511	0.014	91	43935	200.0	142.4	
	24 Iodomethane	142	2.550	2.566	-0.016	98	277068	200.0	183.1	
	25 Carbon disulfide	76	2.610	2.615	-0.005	100	561945	200.0	183.4	
	28 3-Chloro-1-propene	76	2.823	2.828	-0.005	92	122986	200.0	167.2	
	29 Methyl acetate	43	2.860	2.858	0.002	99	471087	1000.0	714.9	
	30 Methylene Chloride	84	2.982	2.992	-0.010	95	219787	200.0	179.7	
	31 2-Methyl-2-propanol	59	3.274	3.241	0.033	91	88615	2000.0	2018.0	
	33 trans-1,2-Dichloroethene	96	3.322	3.339	-0.017	95	210975	200.0	187.5	
	32 Acrylonitrile	53	3.316	3.314	0.002	99	410991	2000.0	1348.6	
	34 Methyl tert-butyl ether	73	3.365	3.363	0.002	97	335084	200.0	147.5	
	38 Vinyl acetate	43	3.718	3.728	-0.010	68	314059	200.0	185.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
35 Hexane	57	3.718	3.722	-0.004	95	446423	200.0	181.7	
36 1,1-Dichloroethane	63	3.967	3.965	0.002	96	424384	200.0	191.6	
41 2,2-Dichloropropane	77	4.794	4.793	0.001	85	191653	200.0	216.8	
42 cis-1,2-Dichloroethene	96	4.807	4.805	0.002	86	200038	200.0	178.0	
43 2-Butanone (MEK)	43	4.855	4.859	-0.004	97	46322	200.0	118.2	
46 Chlorobromomethane	128	5.123	5.127	-0.004	89	70542	200.0	169.2	
48 Tetrahydrofuran	42	5.141	5.145	-0.004	95	62440	400.0	239.1	
49 Chloroform	83	5.293	5.291	0.002	96	308489	200.0	190.3	
50 1,1,1-Trichloroethane	97	5.445	5.437	0.008	97	256793	200.0	202.2	
51 Cyclohexane	56	5.506	5.510	-0.004	94	514570	200.0	177.7	
53 Carbon tetrachloride	117	5.628	5.620	0.008	94	246665	200.0	212.6	
52 1,1-Dichloropropene	75	5.652	5.650	0.002	93	279486	200.0	188.6	
54 Benzene	78	5.871	5.875	-0.004	98	803145	200.0	193.7	
59 Isobutyl alcohol	41	5.944	5.936	0.008	95	67849	5000.0	3372.8	
55 1,2-Dichloroethane	62	5.981	5.985	-0.004	95	183465	200.0	179.0	
58 n-Heptane	43	6.291	6.295	-0.004	97	469327	200.0	191.9	
61 Trichloroethene	130	6.668	6.666	0.002	96	188527	200.0	198.0	
63 Methylcyclohexane	83	6.905	6.904	0.001	95	402215	200.0	187.3	
64 1,2-Dichloropropane	63	6.954	6.952	0.002	97	205448	200.0	183.0	
65 Dibromomethane	93	7.039	7.043	-0.004	94	66257	200.0	157.4	
67 1,4-Dioxane	88	7.057	7.050	0.007	99	18653	4000.0	2558.6	
68 Dichlorobromomethane	83	7.258	7.262	-0.004	98	182346	200.0	196.3	
70 2-Chloroethyl vinyl ether	63	7.593	7.597	-0.004	91	147099	400.0	367.1	
74 trans-1,3-Dichloropropene	75	7.721	7.725	-0.004	97	243534	200.0	185.1	
72 4-Methyl-2-pentanone (MIBK	43	7.891	7.895	-0.004	98	106260	200.0	140.9	
73 Toluene	91	8.043	8.047	-0.004	98	835286	200.0	196.8	
71 cis-1,3-Dichloropropene	75	8.323	8.327	-0.004	93	168282	200.0	173.3	
75 Ethyl methacrylate	69	8.408	8.412	-0.004	93	143628	200.0	150.7	
76 1,1,2-Trichloroethane	97	8.517	8.516	0.001	91	104577	200.0	157.6	
77 Tetrachloroethene	164	8.560	8.558	0.002	97	165734	200.0	202.9	
78 1,3-Dichloropropane	76	8.670	8.674	-0.004	97	196753	200.0	161.8	
79 2-Hexanone	43	8.749	8.753	-0.004	99	65505	200.0	127.7	
81 Chlorodibromomethane	129	8.876	8.881	-0.005	91	97859	200.0	179.5	
82 Ethylene Dibromide	107	8.980	8.984	-0.004	96	86944	200.0	143.4	
84 Chlorobenzene	112	9.479	9.477	0.002	92	490484	200.0	198.7	
85 1,1,1,2-Tetrachloroethane	131	9.582	9.586	-0.004	95	162335	200.0	208.5	
86 Ethylbenzene	106	9.588	9.592	-0.004	98	327366	200.0	208.8	
87 m-Xylene & p-Xylene	106	9.728	9.726	0.002	99	399769	200.0	196.1	
88 o-Xylene	106	10.099	10.103	-0.004	98	381392	200.0	205.9	
89 Styrene	104	10.130	10.128	0.002	95	571781	200.0	200.2	
90 Bromoform	173	10.300	10.298	0.002	97	44354	200.0	154.1	
91 Isopropylbenzene	105	10.476	10.481	-0.005	97	994377	200.0	212.7	
94 Bromobenzene	156	10.768	10.773	-0.005	96	179539	200.0	192.2	
93 1,1,2,2-Tetrachloroethane	83	10.805	10.803	0.002	93	111628	200.0	149.5	
96 trans-1,4-Dichloro-2-buten	53	10.841	10.846	-0.005	71	26804	200.0	140.8	
95 1,2,3-Trichloropropane	110	10.854	10.852	0.002	88	32588	200.0	152.9	
97 N-Propylbenzene	120	10.896	10.894	0.002	98	299364	200.0	218.7	
98 2-Chlorotoluene	126	10.969	10.967	0.002	96	220367	200.0	210.1	
99 1,3,5-Trimethylbenzene	105	11.085	11.089	-0.004	95	822686	200.0	206.1	
100 4-Chlorotoluene	126	11.097	11.095	0.002	99	213213	200.0	210.5	
101 tert-Butylbenzene	119	11.389	11.393	-0.004	95	759008	200.0	214.3	
103 1,2,4-Trimethylbenzene	105	11.456	11.454	0.002	98	817060	200.0	205.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
104 sec-Butylbenzene	105	11.614	11.618	-0.004	95	1135476	200.0	214.1	
105 1,3-Dichlorobenzene	146	11.717	11.716	0.001	99	384507	200.0	204.5	
106 4-Isopropyltoluene	119	11.778	11.783	-0.004	96	933265	200.0	215.0	
107 1,4-Dichlorobenzene	146	11.827	11.825	0.002	94	347886	200.0	190.3	
111 1,2-Dichlorobenzene	146	12.168	12.172	-0.004	97	312977	200.0	184.1	
110 n-Butylbenzene	91	12.186	12.184	0.002	98	867396	200.0	210.1	
112 1,2-Dibromo-3-Chloropropan	75	12.964	12.963	0.001	78	9227	200.0	117.1	
113 1,2,4-Trichlorobenzene	180	13.774	13.772	0.002	94	116337	200.0	150.4	
115 Hexachlorobutadiene	225	13.932	13.930	0.002	97	160426	200.0	211.5	
116 Naphthalene	128	14.029	14.027	0.002	97	149200	200.0	110.8	
117 1,2,3-Trichlorobenzene	180	14.248	14.246	0.002	94	85468	200.0	137.4	
S 129 1,2-Dichloroethene, Total	96				0		400.0	365.4	
S 130 Xylenes, Total	106				0		400.0	402.0	
S 131 1,3-Dichloropropene, Total	1				0		400.0	358.4	

Reagents:

voaWacro2 Res_00003	Amount Added: 35.00	Units: uL		
voaWVA2ndRes_00001	Amount Added: 8.00	Units: uL		
VOA8260VOA2ND_00115	Amount Added: 8.00	Units: uL		
VOACEVEPRI_00006	Amount Added: 8.00	Units: uL		
VOA8260INT_00032	Amount Added: 10.00	Units: uL	Run Reagent	
VOA8260SURR_00035	Amount Added: 10.00	Units: uL	Run Reagent	

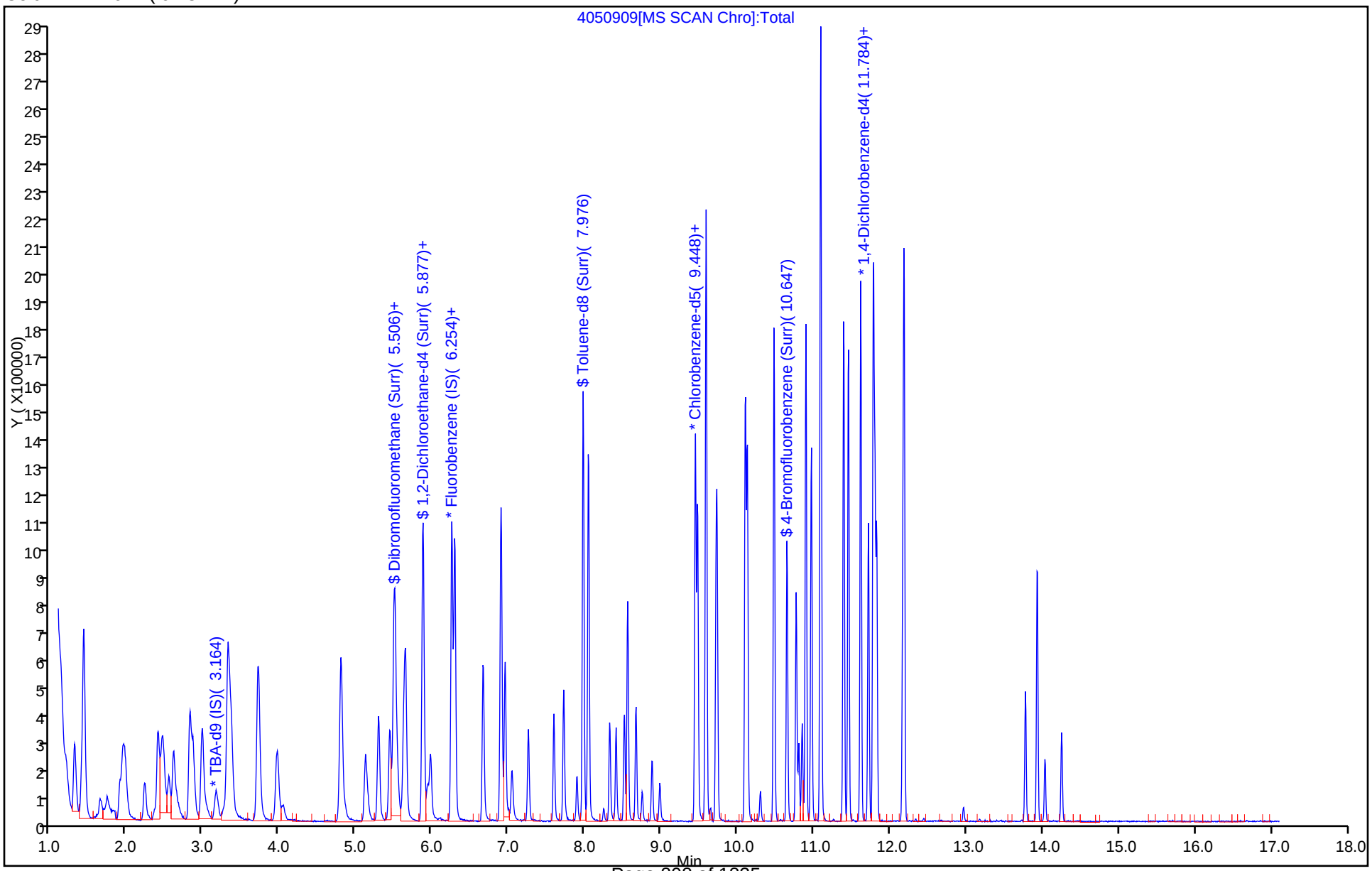
Report Date: 10-May-2015 11:35:30 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP4\20150509-6844.b\4050909.D

Injection Date:	09-May-2015 15:48:30	Instrument ID:	CHHP4	Operator ID:	034635
Lims ID:	lcs			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVOA_CHHP4	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Start Date: 10/20/2014 11:48

Analysis Batch Number: 122015 End Date: 10/20/2014 17:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-122015/1		10/20/2014 11:48	1	7102001.D	DB-624 0.18(mm)
IC 180-122015/3		10/20/2014 12:49	1	7102003.D	DB-624 0.18(mm)
IC 180-122015/4		10/20/2014 13:15	1	7102004.D	DB-624 0.18(mm)
IC 180-122015/5		10/20/2014 13:42	1	7102005.D	DB-624 0.18(mm)
IC 180-122015/6		10/20/2014 14:12	1	7102006.D	DB-624 0.18(mm)
CCVIS 180-122015/1006		10/20/2014 14:12	1		DB-624 0.18(mm)
IC 180-122015/7		10/20/2014 14:42	1	7102007.D	DB-624 0.18(mm)
IC 180-122015/8		10/20/2014 15:08	1	7102008.D	DB-624 0.18(mm)
IC 180-122015/9		10/20/2014 15:38	1	7102009.D	DB-624 0.18(mm)
ZZZZZ		10/20/2014 16:31	1		DB-624 0.18(mm)
ZZZZZ		10/20/2014 17:06	1		DB-624 0.18(mm)
ICV 180-122015/13		10/20/2014 17:33	1		DB-624 0.18(mm)
ZZZZZ		10/20/2014 17:33	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP4 Start Date: 11/03/2014 09:04

Analysis Batch Number: 123648 End Date: 11/04/2014 14:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-123648/1		11/03/2014 09:04	1	4110301.D	DB-624 0.18(mm)
IC 180-123648/4		11/03/2014 12:22	1	4110304.D	DB-624 0.18(mm)
IC 180-123648/5		11/03/2014 12:49	1	4110305.D	DB-624 0.18(mm)
IC 180-123648/6		11/03/2014 13:15	1	4110306.D	DB-624 0.18(mm)
ICIS 180-123648/7		11/03/2014 13:42	1	4110307.D	DB-624 0.18(mm)
IC 180-123648/9		11/03/2014 14:35	1	4110309.D	DB-624 0.18(mm)
IC 180-123648/10		11/03/2014 15:02	1	4110310.D	DB-624 0.18(mm)
IC 180-123648/12		11/03/2014 16:24	1	4110312.D	DB-624 0.18(mm)
ICV 180-123648/15		11/03/2014 18:49	1		DB-624 0.18(mm)
ICV 180-123648/16		11/04/2014 14:07	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Start Date: 01/13/2015 09:04

Analysis Batch Number: 130597 End Date: 01/14/2015 12:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-130597/1		01/13/2015 09:04	1	7011301.D	DB-624 0.18(mm)
IC 180-130597/3		01/13/2015 10:25	1	7011303.D	DB-624 0.18(mm)
IC 180-130597/4		01/13/2015 10:53	1	7011304.D	DB-624 0.18(mm)
IC 180-130597/5		01/13/2015 11:33	1	7011305.D	DB-624 0.18(mm)
ICIS 180-130597/6		01/13/2015 12:00	1	7011306.D	DB-624 0.18(mm)
CCVIS 180-130597/1006		01/13/2015 12:00	1		DB-624 0.18(mm)
IC 180-130597/7		01/13/2015 12:26	1	7011307.D	DB-624 0.18(mm)
IC 180-130597/8		01/13/2015 13:21	1	7011308.D	DB-624 0.18(mm)
IC 180-130597/9		01/13/2015 14:16	1	7011309.D	DB-624 0.18(mm)
ICV 180-130597/14		01/14/2015 11:33	1		DB-624 0.18(mm)
ICV 180-130597/15		01/14/2015 12:16	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP7 Start Date: 05/08/2015 07:42

Analysis Batch Number: 140962 End Date: 05/08/2015 17:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-140962/1		05/08/2015 07:42	1	7050801.D	DB-624 0.18(mm)
CCVIS 180-140962/2		05/08/2015 08:50	1	7050802.D	DB-624 0.18(mm)
LODV 180-140962/3		05/08/2015 09:24	1		DB-624 0.18(mm)
CCV 180-140962/4		05/08/2015 09:52	1	7050804.D	DB-624 0.18(mm)
ZZZZZ		05/08/2015 12:24	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 12:51	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 13:19	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 13:56	1		DB-624 0.18(mm)
MB 180-140962/11		05/08/2015 14:23	1	7050811.D	DB-624 0.18(mm)
180-43702-1	RB-01	05/08/2015 14:51	1	7050812.D	DB-624 0.18(mm)
180-43702-2	FB-01	05/08/2015 15:18	1	7050813.D	DB-624 0.18(mm)
180-43702-3	RB-02	05/08/2015 15:54	1	7050814.D	DB-624 0.18(mm)
ZZZZZ		05/08/2015 16:21	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 16:46	1		DB-624 0.18(mm)
LCS 180-140962/17		05/08/2015 17:14	1	7050817.D	DB-624 0.18(mm)
ZZZZZ		05/08/2015 17:41	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHHP4 Start Date: 05/09/2015 11:24

Analysis Batch Number: 141065 End Date: 05/09/2015 23:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-141065/1		05/09/2015 11:24	1	4050901.D	DB-624 0.18(mm)
CCVIS 180-141065/2		05/09/2015 12:04	1	4050902.D	DB-624 0.18(mm)
CCV 180-141065/3		05/09/2015 12:46	1	4050903.D	DB-624 0.18(mm)
LODV 180-141065/4		05/09/2015 13:20	1		DB-624 0.18(mm)
MB 180-141065/5		05/09/2015 14:00	1	4050905.D	DB-624 0.18(mm)
180-43702-4	FB-02	05/09/2015 14:27	1	4050906.D	DB-624 0.18(mm)
ZZZZZ		05/09/2015 14:54	1		DB-624 0.18(mm)
180-43702-5	TRIP BLANK	05/09/2015 15:21	1	4050908.D	DB-624 0.18(mm)
LCS 180-141065/9		05/09/2015 15:48	1	4050909.D	DB-624 0.18(mm)
ZZZZZ		05/09/2015 16:15	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 16:43	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 18:04	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 18:33	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 19:00	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 19:54	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 23:32	250		DB-624 0.18(mm)

Method 8270D Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rxi-5SilMS ID: 0.32(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
RB-01	180-43702-1	79	93	86	86	88	99
FB-01	180-43702-2	71	83	79	79	84	94
RB-02	180-43702-3	73	88	82	69	79	91
FB-02	180-43702-4	66	80	78	65	69	79
	MB 180-140746/1-A	57	61	57	51	54	65
	MB 180-140846/1-A	60	64	56	52	53	56
	LCS 180-140746/2-A	52	57	55	53	58	60
	LCS 180-140846/2-A	56	58	55	52	56	54
	LCSD 180-140746/3-A	53	57	55	53	57	59
	LCSD 180-140846/3-A	57	60	56	53	56	55

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	20-105
PHL = Phenol-d5 (Surr)	25-105
NBZ = Nitrobenzene-d5 (Surr)	27-114
FBP = 2-Fluorobiphenyl	28-109
TBP = 2,4,6-Tribromophenol (Surr)	30-118
TPH = Terphenyl-d14 (Surr)	20-118

Column to be used to flag recovery values

FORM II 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D0512008.D

Lab ID: LCS 180-140746/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	20.0	11.1	56	47-100	
Acenaphthylene	20.0	12.2	61	47-100	
Anthracene	20.0	12.6	63	49-100	
Benzidine	20.0	7.11 J	36	10-100	
Benzo[a]anthracene	20.0	13.6	68	50-100	
Benzo[b]fluoranthene	20.0	12.8	64	43-100	
Benzo[k]fluoranthene	20.0	13.6	68	47-100	
Benzoic acid	20.0	12.1	61	14-117	
Benzo[g,h,i]perylene	20.0	14.8	74	48-100	
Benzo[a]pyrene	20.0	13.9	69	47-100	
Bis(2-chloroethoxy)methane	20.0	11.6	58	45-100	
Bis(2-chloroethyl)ether	20.0	11.6	58	42-100	
Bis(2-ethylhexyl) phthalate	20.0	14.1	70	35-118	
2,2'-oxybis[1-chloropropane]	20.0	10.8	54	38-100	
4-Bromophenyl phenyl ether	20.0	12.2	61	46-100	
4-Chlorophenyl phenyl ether	20.0	12.1	60	48-100	
2-Chloronaphthalene	20.0	10.7	54	42-100	
Butyl benzyl phthalate	20.0	14.0	70	45-105	
Chrysene	20.0	13.4	67	49-100	
Dibenz(a,h)anthracene	20.0	14.6	73	48-100	
Di-n-butyl phthalate	20.0	12.8	64	49-101	
Di-n-octyl phthalate	20.0	14.1	70	40-105	
Diethyl phthalate	20.0	11.4	57	48-100	
Dimethyl phthalate	20.0	12.0	60	49-100	
3,3'-Dichlorobenzidine	20.0	12.4	62	41-100	
2,4-Dinitrotoluene	20.0	13.4	67	49-100	
2,6-Dinitrotoluene	20.0	12.8	64	50-100	
2-Chlorophenol	20.0	12.0	60	41-100	
2,4-Dichlorophenol	20.0	12.1	61	45-100	
2,4-Dimethylphenol	20.0	12.1	60	45-100	
2,4-Dinitrophenol	40.0	20.6	51	36-100	
2-Nitrophenol	20.0	12.1	61	45-100	
2,4,6-Trichlorophenol	20.0	11.7	58	47-101	
1,2-Diphenylhydrazine(as Azobenzene)	20.0	12.1	60	49-100	
1,2,4-Trichlorobenzene	20.0	11.4	57	43-100	
4-Chloro-3-methylphenol	20.0	12.9	64	47-100	
4-Nitrophenol	40.0	25.6	64	44-129	
4,6-Dinitro-2-methylphenol	40.0	25.2	63	46-100	
Fluoranthene	20.0	12.7	64	48-100	
Fluorene	20.0	12.4	62	48-100	
Hexachlorobenzene	20.0	11.9	60	45-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D0512008.D

Lab ID: LCS 180-140746/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	20.0	11.4	57	42-100	
Hexachlorocyclopentadiene	20.0	11.4	57	37-109	
Hexachloroethane	20.0	12.1	60	39-100	
Indeno[1,2,3-cd]pyrene	20.0	14.4	72	47-100	
Isophorone	20.0	11.9	60	48-100	
Naphthalene	20.0	11.5	58	44-100	
Nitrobenzene	20.0	11.6	58	47-100	
N-Nitrosodi-n-propylamine	20.0	11.6	58	42-100	
N-Nitrosodimethylamine	20.0	10.7	54	41-100	
N-Nitrosodiphenylamine	40.0	22.3	56	48-100	
Phenanthrene	20.0	12.7	64	48-100	
Pyrene	20.0	14.3	72	44-100	
Pentachlorophenol	40.0	20.2	50	36-105	
Phenol	20.0	11.7	58	43-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D0514N14.D

Lab ID: LCS 180-140846/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	20.0	10.9	55	47-100	
Acenaphthylene	20.0	11.9	59	47-100	
Anthracene	20.0	12.4	62	49-100	
Benzidine	20.0	8.19 J	41	10-100	
Benzo[a]anthracene	20.0	13.0	65	50-100	
Benzo[b]fluoranthene	20.0	11.8	59	43-100	
Benzo[k]fluoranthene	20.0	13.2	66	47-100	
Benzoic acid	20.0	12.9	65	14-117	
Benzo[g,h,i]perylene	20.0	13.9	70	48-100	
Benzo[a]pyrene	20.0	13.3	67	47-100	
Bis(2-chloroethoxy)methane	20.0	11.8	59	45-100	
Bis(2-chloroethyl)ether	20.0	11.7	59	42-100	
Bis(2-ethylhexyl) phthalate	20.0	13.7	68	35-118	
2,2'-oxybis[1-chloropropane]	20.0	10.8	54	38-100	
4-Bromophenyl phenyl ether	20.0	11.5	58	46-100	
4-Chlorophenyl phenyl ether	20.0	12.0	60	48-100	
2-Chloronaphthalene	20.0	10.4	52	42-100	
Butyl benzyl phthalate	20.0	13.5	68	45-105	
Chrysene	20.0	13.0	65	49-100	
Dibenz(a,h)anthracene	20.0	13.7	68	48-100	
Di-n-butyl phthalate	20.0	13.1	66	49-101	
Di-n-octyl phthalate	20.0	13.8	69	40-105	
Diethyl phthalate	20.0	11.9	59	48-100	
Dimethyl phthalate	20.0	12.0	60	49-100	
3,3'-Dichlorobenzidine	20.0	13.0	65	41-100	
2,4-Dinitrotoluene	20.0	13.9	69	49-100	
2,6-Dinitrotoluene	20.0	13.0	65	50-100	
2-Chlorophenol	20.0	12.1	61	41-100	
2,4-Dichlorophenol	20.0	12.5	63	45-100	
2,4-Dimethylphenol	20.0	12.6	63	45-100	
2,4-Dinitrophenol	40.0	23.4	59	36-100	
2-Nitrophenol	20.0	12.1	61	45-100	
2,4,6-Trichlorophenol	20.0	11.7	58	47-101	
1,2-Diphenylhydrazine(as Azobenzene)	20.0	11.1	56	49-100	
1,2,4-Trichlorobenzene	20.0	11.6	58	43-100	
4-Chloro-3-methylphenol	20.0	13.3	66	47-100	
4-Nitrophenol	40.0	27.2	68	44-129	
4,6-Dinitro-2-methylphenol	40.0	25.7	64	46-100	
Fluoranthene	20.0	13.2	66	48-100	
Fluorene	20.0	12.5	62	48-100	
Hexachlorobenzene	20.0	11.4	57	45-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D0514N14.D

Lab ID: LCS 180-140846/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	20.0	11.6	58	42-100	
Hexachlorocyclopentadiene	20.0	10.8	54	37-109	
Hexachloroethane	20.0	12.0	60	39-100	
Indeno[1,2,3-cd]pyrene	20.0	13.6	68	47-100	
Isophorone	20.0	11.9	60	48-100	
Naphthalene	20.0	11.7	58	44-100	
Nitrobenzene	20.0	11.7	58	47-100	
N-Nitrosodi-n-propylamine	20.0	12.4	62	42-100	
N-Nitrosodimethylamine	20.0	11.8	59	41-100	
N-Nitrosodiphenylamine	40.0	21.1	53	48-100	
Phenanthrene	20.0	12.5	62	48-100	
Pyrene	20.0	12.5	62	44-100	
Pentachlorophenol	40.0	20.5	51	36-105	
Phenol	20.0	11.9	59	43-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D0512009.D

Lab ID: LCSD 180-140746/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	20.0	10.8	54	2	25	47-100	
Acenaphthylene	20.0	11.9	59	2	26	47-100	
Anthracene	20.0	12.4	62	1	20	49-100	
Benzidine	20.0	7.09 J	35	0	35	10-100	
Benzo[a]anthracene	20.0	13.2	66	3	20	50-100	
Benzo[b]fluoranthene	20.0	12.4	62	3	22	43-100	
Benzo[k]fluoranthene	20.0	13.4	67	1	24	47-100	
Benzoic acid	20.0	12.2	61	0	20	14-117	
Benzo[g,h,i]perylene	20.0	14.1	70	5	21	48-100	
Benzo[a]pyrene	20.0	13.5	68	2	22	47-100	
Bis(2-chloroethoxy)methane	20.0	11.4	57	2	28	45-100	
Bis(2-chloroethyl)ether	20.0	11.4	57	1	28	42-100	
Bis(2-ethylhexyl) phthalate	20.0	13.8	69	2	35	35-118	
2,2'-oxybis[1-chloropropane]	20.0	10.9	55	1	28	38-100	
4-Bromophenyl phenyl ether	20.0	12.0	60	1	22	46-100	
4-Chlorophenyl phenyl ether	20.0	11.8	59	2	25	48-100	
2-Chloronaphthalene	20.0	10.6	53	1	26	42-100	
Butyl benzyl phthalate	20.0	13.8	69	1	23	45-105	
Chrysene	20.0	13.5	67	0	20	49-100	
Dibenz(a,h)anthracene	20.0	13.9	70	5	21	48-100	
Di-n-butyl phthalate	20.0	12.8	64	0	21	49-101	
Di-n-octyl phthalate	20.0	13.9	69	1	23	40-105	
Diethyl phthalate	20.0	10.8	54	5	20	48-100	
Dimethyl phthalate	20.0	11.7	59	2	24	49-100	
3,3'-Dichlorobenzidine	20.0	12.3	62	1	28	41-100	
2,4-Dinitrotoluene	20.0	13.2	66	2	21	49-100	
2,6-Dinitrotoluene	20.0	12.7	63	1	23	50-100	
2-Chlorophenol	20.0	12.1	60	1	28	41-100	
2,4-Dichlorophenol	20.0	12.0	60	1	29	45-100	
2,4-Dimethylphenol	20.0	12.0	60	1	25	45-100	
2,4-Dinitrophenol	40.0	21.1	53	3	18	36-100	
2-Nitrophenol	20.0	12.0	60	1	31	45-100	
2,4,6-Trichlorophenol	20.0	11.5	57	2	28	47-101	
1,2-Diphenylhydrazine(as Azobenzene)	20.0	11.8	59	3	22	49-100	
1,2,4-Trichlorobenzene	20.0	11.3	57	1	22	43-100	
4-Chloro-3-methylphenol	20.0	12.8	64	1	27	47-100	
4-Nitrophenol	40.0	25.5	64	0	21	44-129	
4,6-Dinitro-2-methylphenol	40.0	24.9	62	1	19	46-100	
Fluoranthene	20.0	12.5	62	2	20	48-100	
Fluorene	20.0	12.0	60	3	22	48-100	
Hexachlorobenzene	20.0	11.7	59	2	19	45-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D0512009.D

Lab ID: LCSD 180-140746/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Hexachlorobutadiene	20.0	11.3	56	1	18	42-100	
Hexachlorocyclopentadiene	20.0	11.2	56	2	16	37-109	
Hexachloroethane	20.0	12.2	61	1	16	39-100	
Indeno[1,2,3-cd]pyrene	20.0	14.1	70	2	21	47-100	
Isophorone	20.0	11.5	57	4	30	48-100	
Naphthalene	20.0	11.4	57	1	25	44-100	
Nitrobenzene	20.0	11.4	57	1	27	47-100	
N-Nitrosodi-n-propylamine	20.0	11.6	58	0	27	42-100	
N-Nitrosodimethylamine	20.0	11.6	58	8	30	41-100	
N-Nitrosodiphenylamine	40.0	21.7	54	2	21	48-100	
Phenanthrene	20.0	12.6	63	1	20	48-100	
Pyrene	20.0	14.0	70	2	20	44-100	
Pentachlorophenol	40.0	20.4	51	1	15	36-105	
Phenol	20.0	11.5	57	2	25	43-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D0514N15.D

Lab ID: LCSD 180-140846/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	20.0	11.1	56	2	25	47-100	
Acenaphthylene	20.0	12.2	61	3	26	47-100	
Anthracene	20.0	12.4	62	0	20	49-100	
Benzidine	20.0	8.01 J	40	2	35	10-100	
Benzo[a]anthracene	20.0	13.2	66	1	20	50-100	
Benzo[b]fluoranthene	20.0	12.3	61	4	22	43-100	
Benzo[k]fluoranthene	20.0	13.6	68	3	24	47-100	
Benzoic acid	20.0	13.7	69	6	20	14-117	
Benzo[g,h,i]perylene	20.0	14.1	71	2	21	48-100	
Benzo[a]pyrene	20.0	13.5	68	2	22	47-100	
Bis(2-chloroethoxy)methane	20.0	11.9	60	1	28	45-100	
Bis(2-chloroethyl)ether	20.0	11.7	59	0	28	42-100	
Bis(2-ethylhexyl) phthalate	20.0	14.0	70	2	35	35-118	
2,2'-oxybis[1-chloropropane]	20.0	11.0	55	2	28	38-100	
4-Bromophenyl phenyl ether	20.0	11.9	59	3	22	46-100	
4-Chlorophenyl phenyl ether	20.0	12.4	62	3	25	48-100	
2-Chloronaphthalene	20.0	10.6	53	2	26	42-100	
Butyl benzyl phthalate	20.0	14.0	70	3	23	45-105	
Chrysene	20.0	13.6	68	4	20	49-100	
Dibenz(a,h)anthracene	20.0	13.9	69	1	21	48-100	
Di-n-butyl phthalate	20.0	13.5	67	2	21	49-101	
Di-n-octyl phthalate	20.0	14.3	72	4	23	40-105	
Diethyl phthalate	20.0	11.9	59	0	20	48-100	
Dimethyl phthalate	20.0	12.3	62	3	24	49-100	
3,3'-Dichlorobenzidine	20.0	13.1	66	1	28	41-100	
2,4-Dinitrotoluene	20.0	14.1	71	2	21	49-100	
2,6-Dinitrotoluene	20.0	13.2	66	1	23	50-100	
2-Chlorophenol	20.0	12.5	63	3	28	41-100	
2,4-Dichlorophenol	20.0	12.7	63	1	29	45-100	
2,4-Dimethylphenol	20.0	12.8	64	2	25	45-100	
2,4-Dinitrophenol	40.0	23.4	58	0	18	36-100	
2-Nitrophenol	20.0	12.4	62	2	31	45-100	
2,4,6-Trichlorophenol	20.0	11.8	59	1	28	47-101	
1,2-Diphenylhydrazine(as Azobenzene)	20.0	11.4	57	3	22	49-100	
1,2,4-Trichlorobenzene	20.0	11.7	59	1	22	43-100	
4-Chloro-3-methylphenol	20.0	13.7	69	3	27	47-100	
4-Nitrophenol	40.0	27.5	69	1	21	44-129	
4,6-Dinitro-2-methylphenol	40.0	26.2	66	2	19	46-100	
Fluoranthene	20.0	13.5	68	3	20	48-100	
Fluorene	20.0	12.6	63	1	22	48-100	
Hexachlorobenzene	20.0	11.5	58	1	19	45-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D0514N15.D

Lab ID: LCSD 180-140846/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Hexachlorobutadiene	20.0	11.7	58	1	18	42-100	
Hexachlorocyclopentadiene	20.0	11.0	55	2	16	37-109	
Hexachloroethane	20.0	12.2	61	2	16	39-100	
Indeno[1,2,3-cd]pyrene	20.0	13.8	69	2	21	47-100	
Isophorone	20.0	12.3	62	3	30	48-100	
Naphthalene	20.0	11.8	59	1	25	44-100	
Nitrobenzene	20.0	11.7	58	0	27	47-100	
N-Nitrosodi-n-propylamine	20.0	12.7	64	2	27	42-100	
N-Nitrosodimethylamine	20.0	12.1	60	2	30	41-100	
N-Nitrosodiphenylamine	40.0	21.9	55	4	21	48-100	
Phenanthrene	20.0	12.7	63	1	20	48-100	
Pyrene	20.0	13.1	65	5	20	44-100	
Pentachlorophenol	40.0	20.6	51	0	15	36-105	
Phenol	20.0	12.2	61	3	25	43-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: D0512005.D Lab Sample ID: MB 180-140746/1-A

Matrix: Water Date Extracted: 05/06/2015 12:13

Instrument ID: CH732 Date Analyzed: 05/12/2015 09:06

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-140746/2-A	D0512008.D	05/12/2015 10:20
	LCSD 180-140746/3-A	D0512009.D	05/12/2015 10:46
RB-01	180-43702-1	D0512024.D	05/12/2015 17:10
FB-01	180-43702-2	D0512025.D	05/12/2015 17:37

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: D0514N07.D Lab Sample ID: MB 180-140846/1-A

Matrix: Water Date Extracted: 05/07/2015 09:32

Instrument ID: CH732 Date Analyzed: 05/14/2015 14:23

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-140846/2-A	D0514N14.D	05/14/2015 17:30
	LCSD 180-140846/3-A	D0514N15.D	05/14/2015 17:57
RB-02	180-43702-3	D0515N25.D	05/15/2015 22:22
FB-02	180-43702-4	D0515N26.D	05/15/2015 22:49

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: D0203002.D DFTPP Injection Date: 02/03/2015

Instrument ID: CH732 DFTPP Injection Time: 05:37

Analysis Batch No.: 132436

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	49.1	
68	Less than 2.0 % of mass 69	0.6	(1.4)1
69	Mass 69 relative abundance	41.6	
70	Less than 2.0 % of mass 69	0.1	(0.3)1
127	40.0 - 60.0 % of mass 198	52.2	
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	7.0	
275	10.0 - 30.0 % of mass 198	22.0	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	9.0	(81.1)3
442	Greater than 40.0 % of mass 198	58.4	
443	17.0 - 23.0 % of mass 442	11.1	(19.0)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
	IC 180-132436/3	D0203003.D	02/03/2015	05:53
	IC 180-132436/4	D0203004.D	02/03/2015	06:20
	IC 180-132436/5	D0203005.D	02/03/2015	06:46
	ICIS 180-132436/6	D0203006.D	02/03/2015	07:13
	IC 180-132436/7	D0203007.D	02/03/2015	07:40
	IC 180-132436/8	D0203008.D	02/03/2015	08:07
	IC 180-132436/9	D0203009.D	02/03/2015	08:33
	IC 180-132436/10	D0203010.D	02/03/2015	09:00

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: D0512002.D DFTPP Injection Date: 05/12/2015

Instrument ID: CH732 DFTPP Injection Time: 08:01

Analysis Batch No.: 141231

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	47.4	
68	Less than 2.0 % of mass 69	0.5	(1.3)1
69	Mass 69 relative abundance	41.8	
70	Less than 2.0 % of mass 69	0.3	(0.6)1
127	40.0 - 60.0 % of mass 198	53.5	
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	6.9	
275	10.0 - 30.0 % of mass 198	19.7	
365	Greater than 1.0 % of mass 198	2.1	
441	Present but less than mass 443	7.2	(74.8)3
442	Greater than 40.0 % of mass 198	50.1	
443	17.0 - 23.0 % of mass 442	9.6	(19.2)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 180-141231/3	D0512003.D	05/12/2015	08:16
	MB 180-140746/1-A	D0512005.D	05/12/2015	09:06
	LCS 180-140746/2-A	D0512008.D	05/12/2015	10:20
	LCSD 180-140746/3-A	D0512009.D	05/12/2015	10:46
RB-01	180-43702-1	D0512024.D	05/12/2015	17:10
FB-01	180-43702-2	D0512025.D	05/12/2015	17:37

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: D0514N02.D DFTPP Injection Date: 05/14/2015

Instrument ID: CH732 DFTPP Injection Time: 12:20

Analysis Batch No.: 141553

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	46.2	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	40.3	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	40.0 - 60.0 % of mass 198	50.8	
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	19.7	
365	Greater than 1.0 % of mass 198	2.3	
441	Present but less than mass 443	7.7	(81.3)3
442	Greater than 40.0 % of mass 198	51.1	
443	17.0 - 23.0 % of mass 442	9.4	(18.5)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 180-141553/3	D0514N03.D	05/14/2015	12:36
	MB 180-140846/1-A	D0514N07.D	05/14/2015	14:23
	LCS 180-140846/2-A	D0514N14.D	05/14/2015	17:30
	LCSD 180-140846/3-A	D0514N15.D	05/14/2015	17:57

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab File ID: D0515N02.D DFTPP Injection Date: 05/15/2015

Instrument ID: CH732 DFTPP Injection Time: 13:02

Analysis Batch No.: 141716

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	45.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	39.2	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	40.0 - 60.0 % of mass 198	52.0	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.6	
275	10.0 - 30.0 % of mass 198	20.4	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	8.2	(83.5)3
442	Greater than 40.0 % of mass 198	52.3	
443	17.0 - 23.0 % of mass 442	9.9	(18.9)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
	CCVIS 180-141716/3	D0515N03.D	05/15/2015	13:18
RB-02	180-43702-3	D0515N25.D	05/15/2015	22:22
FB-02	180-43702-4	D0515N26.D	05/15/2015	22:49

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVIS 180-141231/3 Date Analyzed: 05/12/2015 08:16

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): D0512003.D Heated Purge: (Y/N) N

Calibration ID: 21642

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		136870	6.22	689809	7.50	496738	9.20
UPPER LIMIT		273740	6.72	1379618	8.00	993476	9.70
LOWER LIMIT		68435	5.72	344905	7.00	248369	8.70
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-140746/1-A		132947	6.21	681496	7.49	517040	9.20
LCS 180-140746/2-A		112402	6.21	552968	7.50	389804	9.20
LCSD 180-140746/3-A		115239	6.20	573586	7.49	412560	9.20
180-43702-1	RB-01	74248	6.20	384525	7.49	266997	9.20
180-43702-2	FB-01	81384	6.21	414137	7.49	291373	9.20

DCB = 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 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVIS 180-141231/3 Date Analyzed: 05/12/2015 08:16

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): D0512003.D Heated Purge: (Y/N) N

Calibration ID: 21642

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		859341	10.65	669908	14.41	509261	17.30
UPPER LIMIT		1718682	11.15	1339816	14.91	1018522	17.80
LOWER LIMIT		429671	10.15	334954	13.91	254631	16.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-140746/1-A		943789	10.65	723330	14.41	530305	17.30
LCS 180-140746/2-A		698284	10.65	584827	14.42	494591	17.31
LCSD 180-140746/3-A		734481	10.65	631873	14.41	538551	17.30
180-43702-1	RB-01	491068	10.65	417457	14.42	338619	17.31
180-43702-2	FB-01	529559	10.65	451603	14.42	364823	17.31

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 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVIS 180-141553/3 Date Analyzed: 05/14/2015 12:36

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): D0514N03.D Heated Purge: (Y/N) N

Calibration ID: 21642

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		112979	6.20	539588	7.48	398891	9.19
UPPER LIMIT		225958	6.70	1079176	7.98	797782	9.69
LOWER LIMIT		56490	5.70	269794	6.98	199446	8.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-140846/1-A		107229	6.20	551241	7.49	410405	9.19
LCS 180-140846/2-A		93433	6.20	458422	7.48	345186	9.19
LCSD 180-140846/3-A		91642	6.20	456934	7.48	345448	9.19

DCB = 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 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVIS 180-141553/3 Date Analyzed: 05/14/2015 12:36

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): D0514N03.D Heated Purge: (Y/N) N

Calibration ID: 21642

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		746061	10.64	733643	14.41	665935	17.31
UPPER LIMIT		1492122	11.14	1467286	14.91	1331870	17.81
LOWER LIMIT		373031	10.14	366822	13.91	332968	16.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-140846/1-A		787725	10.64	741651	14.41	611873	17.31
LCS 180-140846/2-A		658651	10.64	659935	14.41	604025	17.31
LCSD 180-140846/3-A		660240	10.64	648626	14.41	577618	17.30

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 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVIS 180-141716/3 Date Analyzed: 05/15/2015 13:18

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): D0515N03.D Heated Purge: (Y/N) N

Calibration ID: 21642

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		122194	6.20	587376	7.48	428679	9.18
UPPER LIMIT		244388	6.70	1174752	7.98	857358	9.68
LOWER LIMIT		61097	5.70	293688	6.98	214340	8.68
LAB SAMPLE ID	CLIENT SAMPLE ID						
180-43702-3	RB-02	93068	6.19	482429	7.48	367200	9.18
180-43702-4	FB-02	92355	6.20	478511	7.48	380484	9.18

DCB = 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 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVIS 180-141716/3 Date Analyzed: 05/15/2015 13:18

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): D0515N03.D Heated Purge: (Y/N) N

Calibration ID: 21642

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		808629	10.61	728981	14.35	619744	17.24
UPPER LIMIT		1617258	11.11	1457962	14.85	1239488	17.74
LOWER LIMIT		404315	10.11	364491	13.85	309872	16.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
180-43702-3	RB-02	693962	10.63	580920	14.38	487762	17.27
180-43702-4	FB-02	699264	10.63	582981	14.38	478985	17.28

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 8270D LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-01 | Lab Sample ID: 180-43702-1

Matrix: Water | Lab File ID: D0512024.D

Analysis Method: 8270D LL | Date Collected: 04/30/2015 17:30

Extract. Method: 3520C | Date Extracted: 05/06/2015 12:13

Sample wt/vol: 270(mL) | Date Analyzed: 05/12/2015 17:10

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141231 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.19	0.027
208-96-8	Acenaphthylene	ND		0.19	0.020
120-12-7	Anthracene	ND		0.19	0.018
92-87-5	Benzidine	ND		19	4.4
56-55-3	Benzo[a]anthracene	ND		0.19	0.034
205-99-2	Benzo[b]fluoranthene	ND		0.19	0.045
207-08-9	Benzo[k]fluoranthene	ND		0.19	0.028
65-85-0	Benzoic acid	ND		4.6	1.5
191-24-2	Benzo[g,h,i]perylene	ND		0.19	0.027
50-32-8	Benzo[a]pyrene	ND		0.19	0.026
111-91-1	Bis(2-chloroethoxy)methane	ND		0.93	0.12
111-44-4	Bis(2-chloroethyl)ether	ND		0.93	0.029
117-81-7	Bis(2-ethylhexyl) phthalate	7.1		1.9	0.41
108-60-1	2,2'-oxybis[1-chloropropane]	ND		0.93	0.022
101-55-3	4-Bromophenyl phenyl ether	ND		0.93	0.11
7005-72-3	4-Chlorophenyl phenyl ether	ND		0.93	0.074
91-58-7	2-Chloronaphthalene	ND		0.19	0.028
85-68-7	Butyl benzyl phthalate	0.22	J	0.93	0.20
218-01-9	Chrysene	ND		0.19	0.029
53-70-3	Dibenz(a,h)anthracene	ND		0.19	0.025
84-74-2	Di-n-butyl phthalate	ND		0.93	0.22
117-84-0	Di-n-octyl phthalate	ND		0.93	0.19
84-66-2	Diethyl phthalate	ND		0.93	0.27
131-11-3	Dimethyl phthalate	ND		0.93	0.17
91-94-1	3,3'-Dichlorobenzidine	ND		0.93	0.14
121-14-2	2,4-Dinitrotoluene	ND		0.93	0.20
606-20-2	2,6-Dinitrotoluene	ND		0.93	0.13
95-57-8	2-Chlorophenol	ND		0.93	0.21
120-83-2	2,4-Dichlorophenol	ND		0.93	0.062
105-67-9	2,4-Dimethylphenol	ND		0.93	0.16
51-28-5	2,4-Dinitrophenol	ND		4.6	2.3
88-75-5	2-Nitrophenol	ND		0.93	0.10
88-06-2	2,4,6-Trichlorophenol	ND		0.93	0.28
122-66-7	1,2-Diphenylhydrazine(as Azobenzene)	ND		0.93	0.11

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-01 | Lab Sample ID: 180-43702-1

Matrix: Water | Lab File ID: D0512024.D

Analysis Method: 8270D LL | Date Collected: 04/30/2015 17:30

Extract. Method: 3520C | Date Extracted: 05/06/2015 12:13

Sample wt/vol: 270(mL) | Date Analyzed: 05/12/2015 17:10

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141231 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		0.93	0.079
59-50-7	4-Chloro-3-methylphenol	ND		0.93	0.16
100-02-7	4-Nitrophenol	ND		4.6	0.74
534-52-1	4,6-Dinitro-2-methylphenol	ND		4.6	1.4
206-44-0	Fluoranthene	ND		0.19	0.020
86-73-7	Fluorene	ND		0.19	0.022
118-74-1	Hexachlorobenzene	ND		0.93	0.056
87-68-3	Hexachlorobutadiene	ND		0.93	0.087
77-47-4	Hexachlorocyclopentadiene	ND		0.93	0.13
67-72-1	Hexachloroethane	ND		0.93	0.13
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.19	0.040
78-59-1	Isophorone	ND		0.93	0.068
91-20-3	Naphthalene	ND		0.19	0.021
98-95-3	Nitrobenzene	ND		1.9	0.14
621-64-7	N-Nitrosodi-n-propylamine	ND		0.93	0.046
62-75-9	N-Nitrosodimethylamine	ND		0.93	0.11
86-30-6	N-Nitrosodiphenylamine	ND		0.93	0.11
85-01-8	Phenanthrene	ND		0.19	0.038
129-00-0	Pyrene	ND		0.19	0.021
87-86-5	Pentachlorophenol	ND		0.93	0.46
108-95-2	Phenol	ND		0.93	0.051

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	88		30-118
321-60-8	2-Fluorobiphenyl	86		28-109
367-12-4	2-Fluorophenol (Surr)	79		20-105
4165-60-0	Nitrobenzene-d5 (Surr)	86		27-114
4165-62-2	Phenol-d5 (Surr)	93		25-105
1718-51-0	Terphenyl-d14 (Surr)	99		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512024.D
Lims ID: 180-43702-E-1-A Lab Sample ID: 180-43702-1
Client ID: RB-01
Sample Type: Client
Inject. Date: 12-May-2015 17:10:30 ALS Bottle#: 23 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006874-024
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150512-6874.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 13-May-2015 05:25:53 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: piccolinov Date: 13-May-2015 05:15:39

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
*	1 1,4-Dichlorobenzene-d4	152	6.201	6.217	-0.016	97	74248	8.00	
*	2 Naphthalene-d8	136	7.494	7.499	-0.005	100	384525	8.00	
*	3 Acenaphthene-d10	164	9.204	9.204	0.000	92	266997	8.00	
*	4 Phenanthrene-d10	188	10.652	10.651	0.001	97	491068	8.00	
*	5 Chrysene-d12	240	14.423	14.412	0.011	96	417457	8.00	
*	6 Perylene-d12	264	17.313	17.297	0.016	95	338619	8.00	
$	7 2-Fluorophenol	112	4.743	4.764	-0.021	92	304671	31.6	
$	8 Phenol-d5	99	5.817	5.833	-0.016	96	481790	37.2	
$	9 Nitrobenzene-d5	82	6.768	6.778	-0.010	93	557034	34.5	
$	10 2-Fluorobiphenyl	172	8.536	8.536	0.000	99	1506424	34.4	
$	11 2,4,6-Tribromophenol	330	9.957	9.957	0.000	88	189618	35.1	
$	12 Terphenyl-d14	244	12.585	12.575	0.010	99	1795624	39.5	
	14 N-Nitrosodimethylamine	74		2.216				ND	
	26 Phenol	94		5.849				ND	
	29 Bis(2-chloroethyl)ether	93		5.934				ND	
	30 2-Chlorophenol	128		5.998				ND	
	38 2,2'-oxybis[1-chloropropan	45		6.495				ND	
	41 N-Nitrosodi-n-propylamine	70		6.623				ND	
	45 Hexachloroethane	117		6.741				ND	
	46 Nitrobenzene	77		6.794				ND	
	48 Isophorone	82		7.029				ND	
	49 2-Nitrophenol	139		7.115				ND	
	50 2,4-Dimethylphenol	107		7.147				ND	
	52 Benzoic acid	122		7.200				ND	
	53 Bis(2-chloroethoxy)methane	93		7.238				ND	
	54 2,4-Dichlorophenol	162		7.350				ND	
	56 1,2,4-Trichlorobenzene	180		7.441				ND	
	58 Naphthalene	128		7.521				ND	
	62 Hexachlorobutadiene	225		7.644				ND	
	67 4-Chloro-3-methylphenol	107		8.018				ND	
	72 Hexachlorocyclopentadiene	237		8.354				ND	
	74 2,4,6-Trichlorophenol	196		8.461				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
77 2-Chloronaphthalene	162		8.669				ND	
82 Dimethyl phthalate	163		8.904				ND	
84 2,6-Dinitrotoluene	165		8.969				ND	
85 Acenaphthylene	152		9.070				ND	
88 Acenaphthene	153		9.236				ND	
87 2,4-Dinitrophenol	184		9.236				ND	
89 4-Nitrophenol	109		9.268				ND	
91 2,4-Dinitrotoluene	165		9.359				ND	
98 Diethyl phthalate	149	9.567	9.572	-0.005	96	12256	0.2830	
100 4-Chlorophenyl phenyl ethe	204		9.706				ND	
103 Fluorene	166		9.727				ND	
104 4,6-Dinitro-2-methylphenol	198		9.749				ND	
105 N-Nitrosodiphenylamine	169		9.813				ND	
90 1,2-Diphenylhydrazine	77		9.861				ND	
110 4-Bromophenyl phenyl ether	248		10.176				ND	
112 Hexachlorobenzene	284		10.267				ND	
116 Pentachlorophenol	266		10.443				ND	
121 Phenanthrene	178		10.673				ND	
122 Anthracene	178		10.726				ND	
126 Di-n-butyl phthalate	149	11.207	11.202	0.005	98	10884	0.1318	
131 Fluoranthene	202		12.078				ND	
132 Benzidine	184		12.217				ND	
133 Pyrene	202		12.404				ND	
138 Butyl benzyl phthalate	149	13.328	13.317	0.011	97	14726	0.4814	
144 3,3'-Dichlorobenzidine	252		14.316				ND	
145 Bis(2-ethylhexyl) phthalat	149	14.375	14.359	0.016	97	647966	15.3	
146 Benzo[a]anthracene	228		14.391				ND	
147 Chrysene	228		14.455				ND	
150 Di-n-octyl phthalate	149		15.657				ND	
152 Benzo[b]fluoranthene	252		16.523				ND	
153 Benzo[k]fluoranthene	252		16.576				ND	
154 Benzo[a]pyrene	252		17.185				ND	
157 Indeno[1,2,3-cd]pyrene	276		19.669				ND	
158 Dibenz(a,h)anthracene	278		19.706				ND	
159 Benzo[g,h,i]perylene	276		20.358				ND	

Reagents:

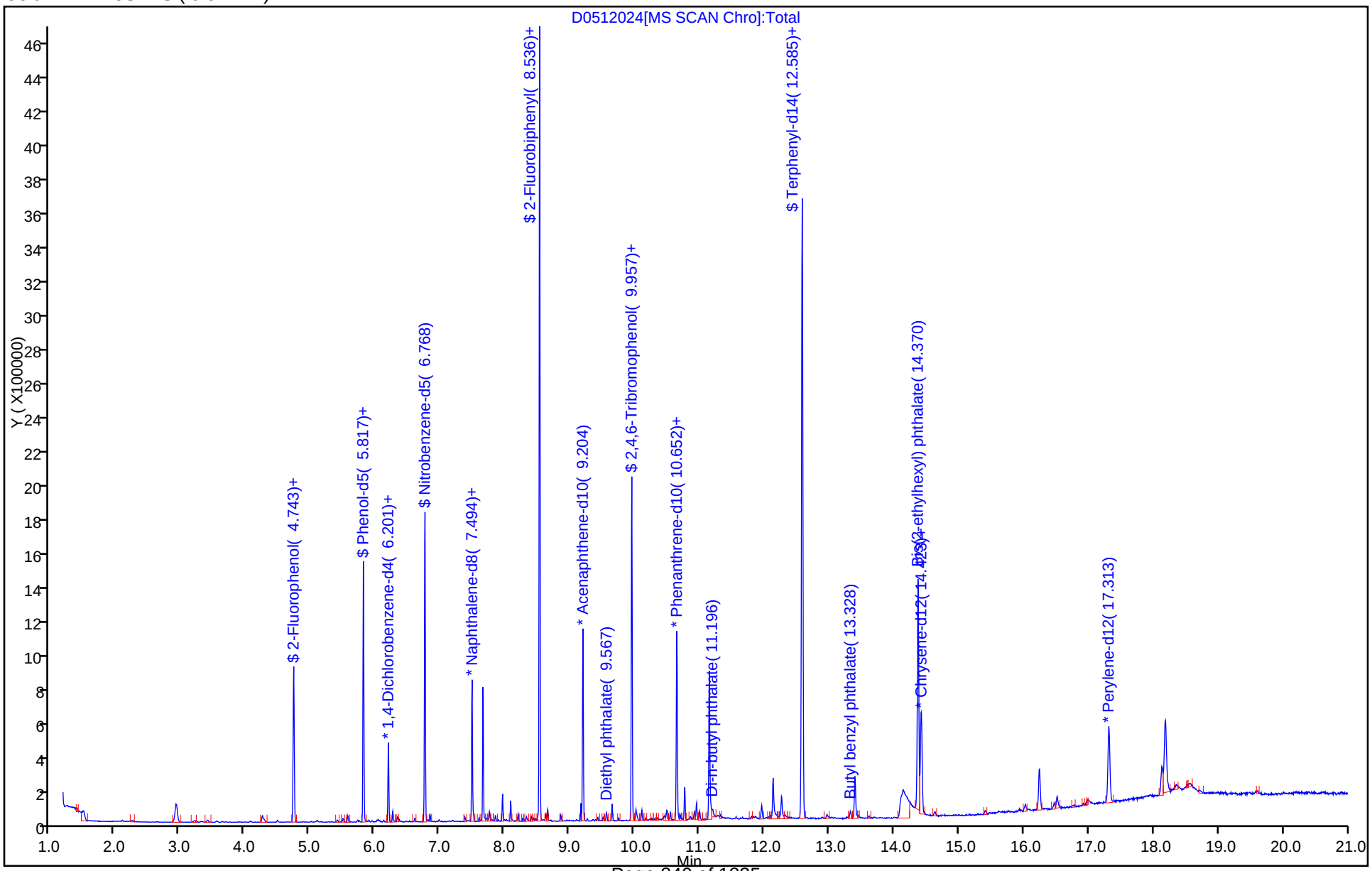
SVTAPITINTRNi_00007 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 13-May-2015 05:26:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150512-6874.b\D0512024.D				
Injection Date:	12-May-2015 17:10:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	180-43702-E-1-A	Lab Sample ID:	180-43702-1	Worklist Smp#:	24
Client ID:	RB-01				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

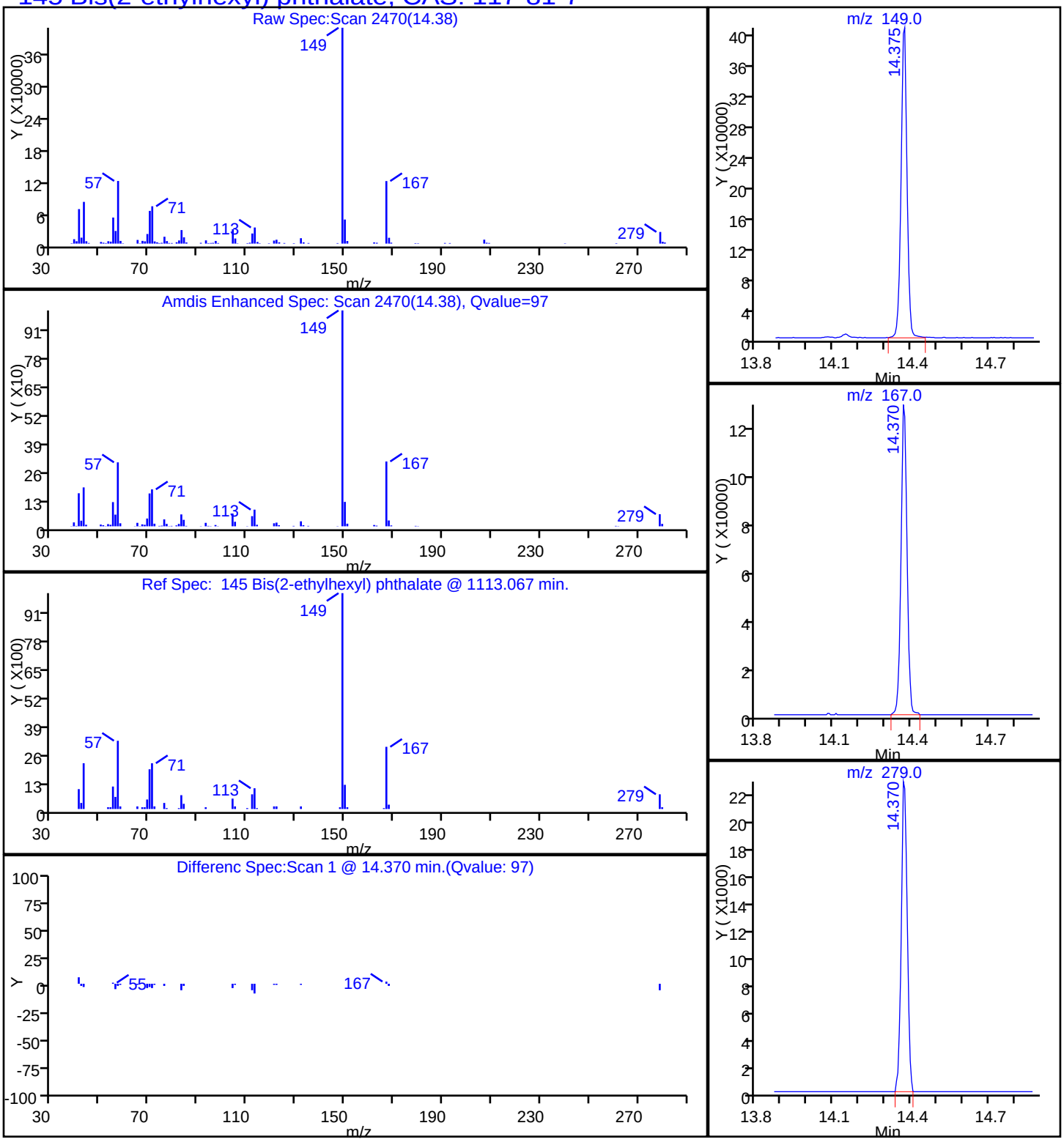


Report Date: 13-May-2015 05:26:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150512-6874.b\D0512024.D				
Injection Date:	12-May-2015 17:10:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-1-A	Lab Sample ID:	180-43702-1		
Client ID:	RB-01				
Operator ID:	003200	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

145 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

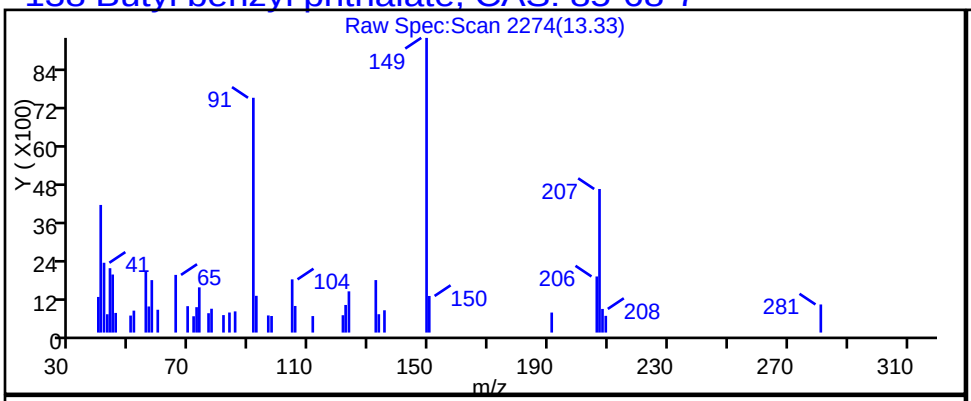


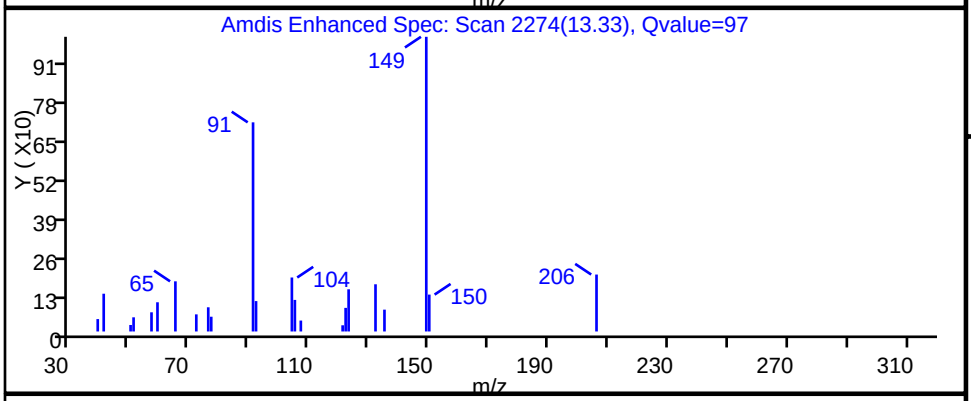
Report Date: 13-May-2015 05:26:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

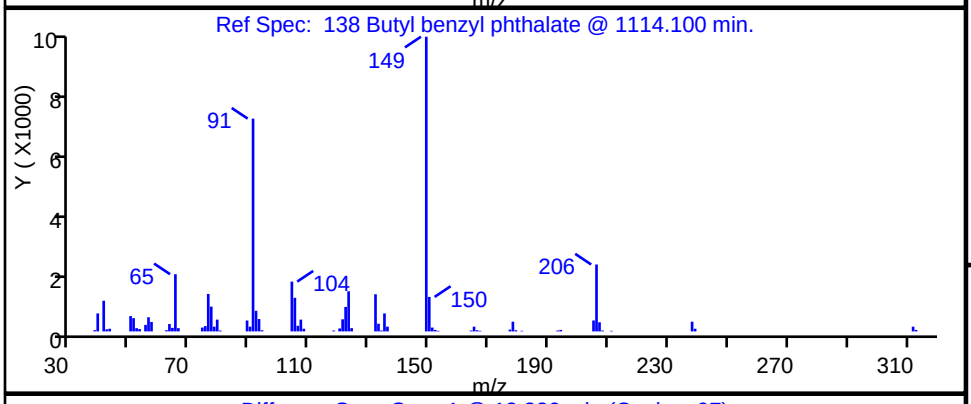
TestAmerica Pittsburgh

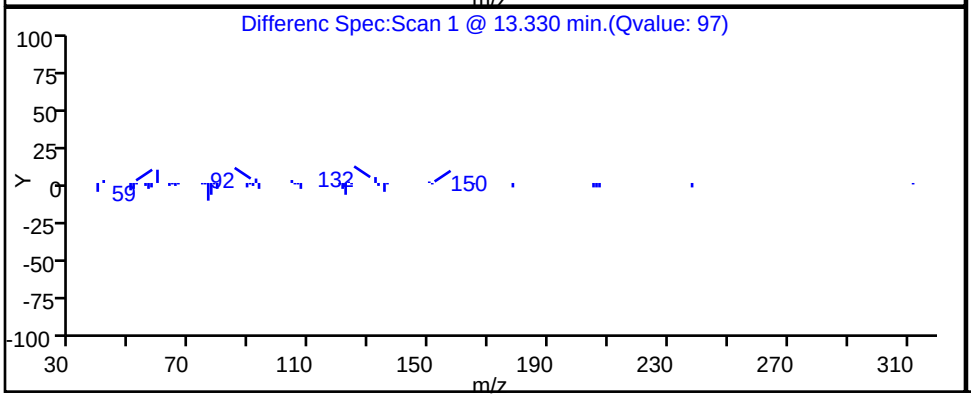
Data File:	\\PITCHROM\ChromData\CH732\20150512-6874.b\D0512024.D				
Injection Date:	12-May-2015 17:10:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-1-A	Lab Sample ID:	180-43702-1		
Client ID:	RB-01				
Operator ID:	003200	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

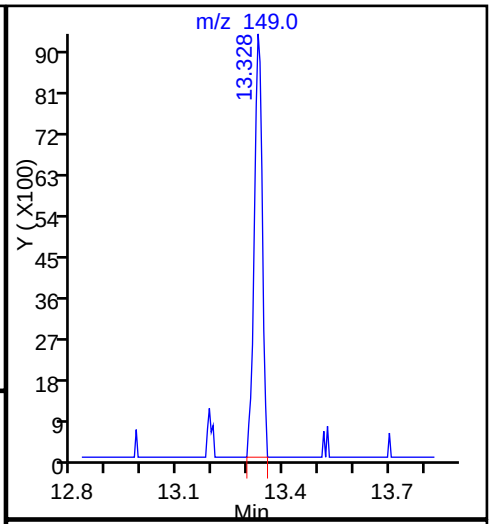
138 Butyl benzyl phthalate, CAS: 85-68-7

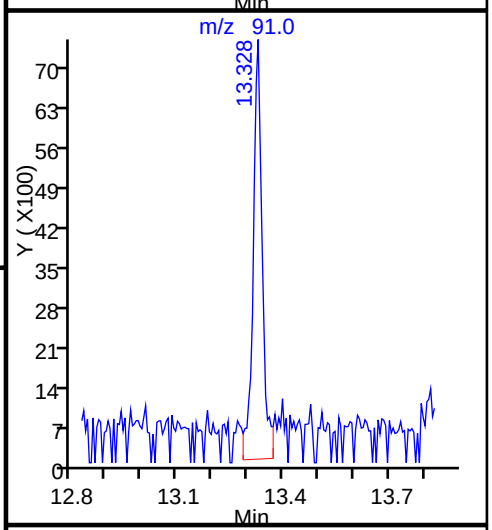


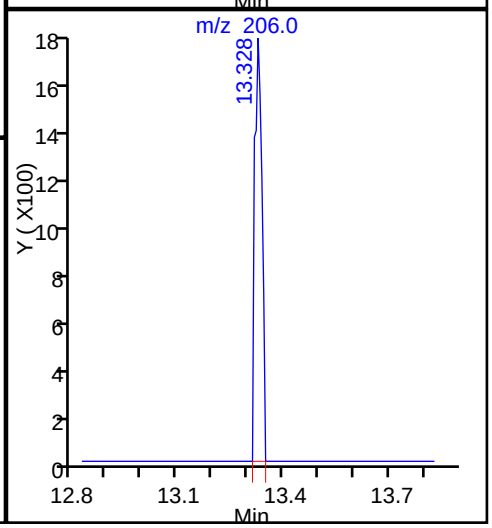












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-01 | Lab Sample ID: 180-43702-2

Matrix: Water | Lab File ID: D0512025.D

Analysis Method: 8270D LL | Date Collected: 04/30/2015 17:45

Extract. Method: 3520C | Date Extracted: 05/06/2015 12:13

Sample wt/vol: 270(mL) | Date Analyzed: 05/12/2015 17:37

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141231 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.19	0.027
208-96-8	Acenaphthylene	ND		0.19	0.020
120-12-7	Anthracene	ND		0.19	0.018
92-87-5	Benzidine	ND		19	4.4
56-55-3	Benzo[a]anthracene	ND		0.19	0.034
205-99-2	Benzo[b]fluoranthene	ND		0.19	0.045
207-08-9	Benzo[k]fluoranthene	ND		0.19	0.028
65-85-0	Benzoic acid	ND		4.6	1.5
191-24-2	Benzo[g,h,i]perylene	ND		0.19	0.027
50-32-8	Benzo[a]pyrene	ND		0.19	0.026
111-91-1	Bis(2-chloroethoxy)methane	ND		0.93	0.12
111-44-4	Bis(2-chloroethyl)ether	ND		0.93	0.029
117-81-7	Bis(2-ethylhexyl) phthalate	2.8		1.9	0.41
108-60-1	2,2'-oxybis[1-chloropropane]	ND		0.93	0.022
101-55-3	4-Bromophenyl phenyl ether	ND		0.93	0.11
7005-72-3	4-Chlorophenyl phenyl ether	ND		0.93	0.074
91-58-7	2-Chloronaphthalene	ND		0.19	0.028
85-68-7	Butyl benzyl phthalate	0.76	J	0.93	0.20
218-01-9	Chrysene	ND		0.19	0.029
53-70-3	Dibenz(a,h)anthracene	ND		0.19	0.025
84-74-2	Di-n-butyl phthalate	ND		0.93	0.22
117-84-0	Di-n-octyl phthalate	ND		0.93	0.19
84-66-2	Diethyl phthalate	ND		0.93	0.27
131-11-3	Dimethyl phthalate	ND		0.93	0.17
91-94-1	3,3'-Dichlorobenzidine	ND		0.93	0.14
121-14-2	2,4-Dinitrotoluene	ND		0.93	0.20
606-20-2	2,6-Dinitrotoluene	ND		0.93	0.13
95-57-8	2-Chlorophenol	ND		0.93	0.21
120-83-2	2,4-Dichlorophenol	ND		0.93	0.062
105-67-9	2,4-Dimethylphenol	ND		0.93	0.16
51-28-5	2,4-Dinitrophenol	ND		4.6	2.3
88-75-5	2-Nitrophenol	ND		0.93	0.10
88-06-2	2,4,6-Trichlorophenol	ND		0.93	0.28
122-66-7	1,2-Diphenylhydrazine(as Azobenzene)	ND		0.93	0.11

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-01 | Lab Sample ID: 180-43702-2

Matrix: Water | Lab File ID: D0512025.D

Analysis Method: 8270D LL | Date Collected: 04/30/2015 17:45

Extract. Method: 3520C | Date Extracted: 05/06/2015 12:13

Sample wt/vol: 270(mL) | Date Analyzed: 05/12/2015 17:37

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141231 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		0.93	0.079
59-50-7	4-Chloro-3-methylphenol	ND		0.93	0.16
100-02-7	4-Nitrophenol	ND		4.6	0.74
534-52-1	4,6-Dinitro-2-methylphenol	ND		4.6	1.4
206-44-0	Fluoranthene	ND		0.19	0.020
86-73-7	Fluorene	ND		0.19	0.022
118-74-1	Hexachlorobenzene	ND		0.93	0.056
87-68-3	Hexachlorobutadiene	ND		0.93	0.087
77-47-4	Hexachlorocyclopentadiene	ND		0.93	0.13
67-72-1	Hexachloroethane	ND		0.93	0.13
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.19	0.040
78-59-1	Isophorone	ND		0.93	0.068
91-20-3	Naphthalene	ND		0.19	0.021
98-95-3	Nitrobenzene	ND		1.9	0.14
621-64-7	N-Nitrosodi-n-propylamine	ND		0.93	0.046
62-75-9	N-Nitrosodimethylamine	ND		0.93	0.11
86-30-6	N-Nitrosodiphenylamine	ND		0.93	0.11
85-01-8	Phenanthrene	ND		0.19	0.038
129-00-0	Pyrene	ND		0.19	0.021
87-86-5	Pentachlorophenol	ND		0.93	0.46
108-95-2	Phenol	ND		0.93	0.051

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	84		30-118
321-60-8	2-Fluorobiphenyl	79		28-109
367-12-4	2-Fluorophenol (Surr)	71		20-105
4165-60-0	Nitrobenzene-d5 (Surr)	79		27-114
4165-62-2	Phenol-d5 (Surr)	83		25-105
1718-51-0	Terphenyl-d14 (Surr)	94		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512025.D
Lims ID: 180-43702-E-2-A Lab Sample ID: 180-43702-2
Client ID: FB-01
Sample Type: Client
Inject. Date: 12-May-2015 17:37:30 ALS Bottle#: 24 Worklist Smp#: 25
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006874-025
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150512-6874.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 13-May-2015 05:25:53 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: piccolinov Date: 13-May-2015 05:16:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.207	6.217	-0.010	97	81384	8.00	
* 2 Naphthalene-d8	136	7.494	7.499	-0.005	100	414137	8.00	
* 3 Acenaphthene-d10	164	9.204	9.204	0.000	91	291373	8.00	
* 4 Phenanthrene-d10	188	10.651	10.651	0.000	97	529559	8.00	
* 5 Chrysene-d12	240	14.418	14.412	0.006	96	451603	8.00	
* 6 Perylene-d12	264	17.313	17.297	0.016	95	364823	8.00	
$ 7 2-Fluorophenol	112	4.748	4.764	-0.016	92	298621	28.3	
$ 8 Phenol-d5	99	5.817	5.833	-0.016	95	470966	33.1	
$ 9 Nitrobenzene-d5	82	6.768	6.778	-0.010	93	550592	31.7	
$ 10 2-Fluorobiphenyl	172	8.536	8.536	0.000	99	1511061	31.6	
$ 11 2,4,6-Tribromophenol	330	9.957	9.957	0.000	87	196161	33.7	
$ 12 Terphenyl-d14	244	12.585	12.575	0.010	99	1846997	37.6	
14 N-Nitrosodimethylamine	74		2.216				ND	
26 Phenol	94		5.849				ND	
29 Bis(2-chloroethyl)ether	93		5.934				ND	
30 2-Chlorophenol	128		5.998				ND	
38 2,2'-oxybis[1-chloropropan	45		6.495				ND	
41 N-Nitrosodi-n-propylamine	70		6.623				ND	
45 Hexachloroethane	117		6.741				ND	
46 Nitrobenzene	77		6.794				ND	
48 Isophorone	82		7.029				ND	
49 2-Nitrophenol	139		7.115				ND	
50 2,4-Dimethylphenol	107		7.147				ND	
52 Benzoic acid	122		7.200				ND	
53 Bis(2-chloroethoxy)methane	93		7.238				ND	
54 2,4-Dichlorophenol	162		7.350				ND	
56 1,2,4-Trichlorobenzene	180		7.441				ND	
58 Naphthalene	128		7.521				ND	
62 Hexachlorobutadiene	225		7.644				ND	
67 4-Chloro-3-methylphenol	107		8.018				ND	
72 Hexachlorocyclopentadiene	237		8.354				ND	
74 2,4,6-Trichlorophenol	196		8.461				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
77 2-Chloronaphthalene	162		8.669				ND	
82 Dimethyl phthalate	163		8.904				ND	
84 2,6-Dinitrotoluene	165		8.969				ND	
85 Acenaphthylene	152		9.070				ND	
88 Acenaphthene	153		9.236				ND	
87 2,4-Dinitrophenol	184		9.236				ND	
89 4-Nitrophenol	109		9.268				ND	
91 2,4-Dinitrotoluene	165		9.359				ND	
98 Diethyl phthalate	149	9.567	9.572	-0.005	97	20891	0.4420	
100 4-Chlorophenyl phenyl ethe	204		9.706				ND	
103 Fluorene	166		9.727				ND	
104 4,6-Dinitro-2-methylphenol	198		9.749				ND	
105 N-Nitrosodiphenylamine	169		9.813				ND	
90 1,2-Diphenylhydrazine	77		9.861				ND	
110 4-Bromophenyl phenyl ether	248		10.176				ND	
112 Hexachlorobenzene	284		10.267				ND	
116 Pentachlorophenol	266		10.443				ND	
121 Phenanthrene	178		10.673				ND	
122 Anthracene	178		10.726				ND	
126 Di-n-butyl phthalate	149	11.207	11.202	0.005	99	29169	0.3275	
131 Fluoranthene	202		12.078				ND	
132 Benzidine	184		12.217				ND	
133 Pyrene	202		12.404				ND	
138 Butyl benzyl phthalate	149	13.328	13.317	0.011	98	54084	1.63	
144 3,3'-Dichlorobenzidine	252		14.316				ND	
145 Bis(2-ethylhexyl) phthalat	149	14.370	14.359	0.011	97	273316	5.96	
146 Benzo[a]anthracene	228		14.391				ND	
147 Chrysene	228		14.455				ND	
150 Di-n-octyl phthalate	149		15.657				ND	
152 Benzo[b]fluoranthene	252		16.523				ND	
153 Benzo[k]fluoranthene	252		16.576				ND	
154 Benzo[a]pyrene	252		17.185				ND	
157 Indeno[1,2,3-cd]pyrene	276		19.669				ND	
158 Dibenz(a,h)anthracene	278		19.706				ND	
159 Benzo[g,h,i]perylene	276		20.358				ND	

Reagents:

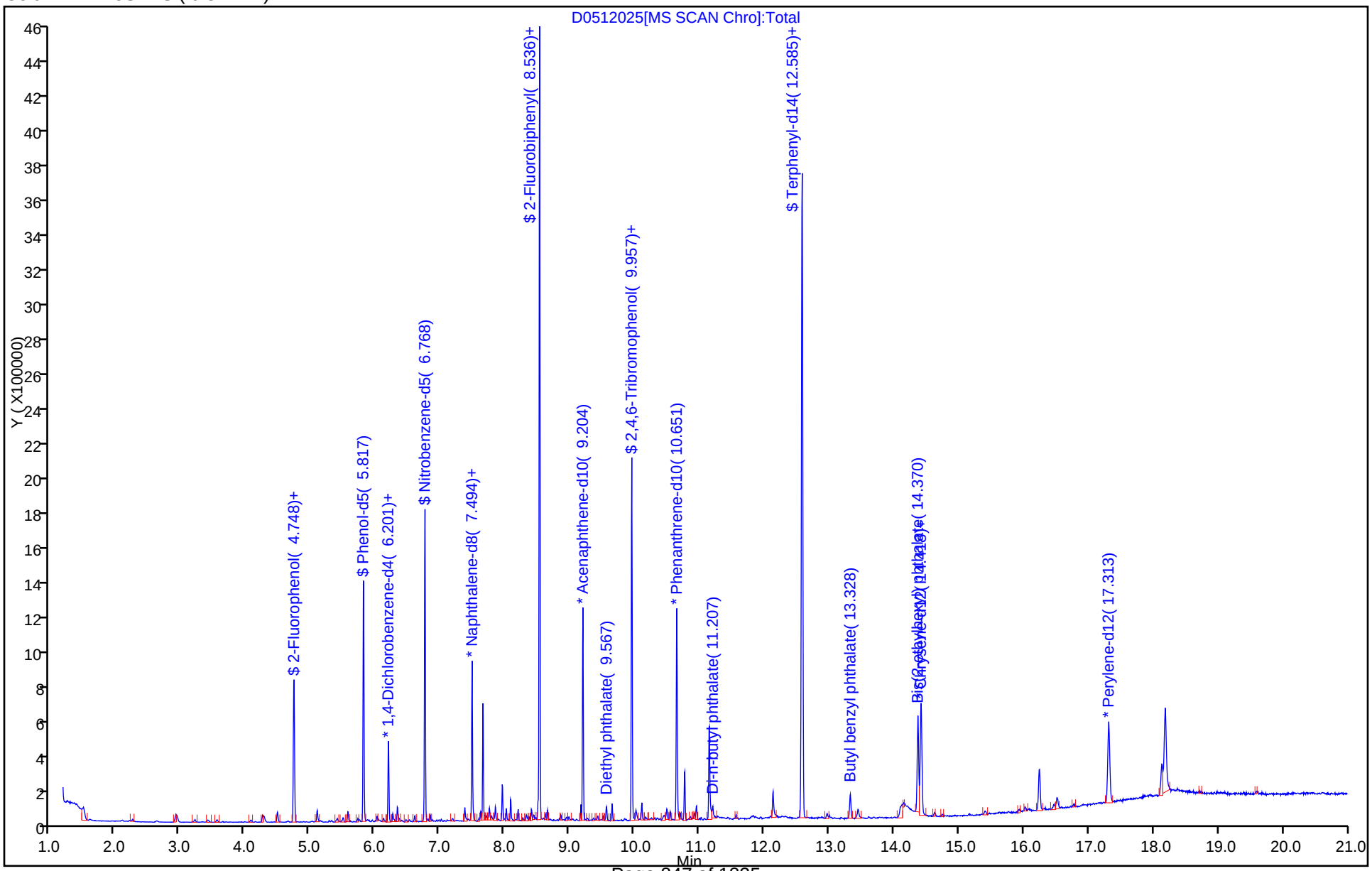
SVTAPITINTRNi_00007 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 13-May-2015 05:26:20 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150512-6874.b\D0512025.D				
Injection Date:	12-May-2015 17:37:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	180-43702-E-2-A	Lab Sample ID:	180-43702-2	Worklist Smp#:	25
Client ID:	FB-01				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

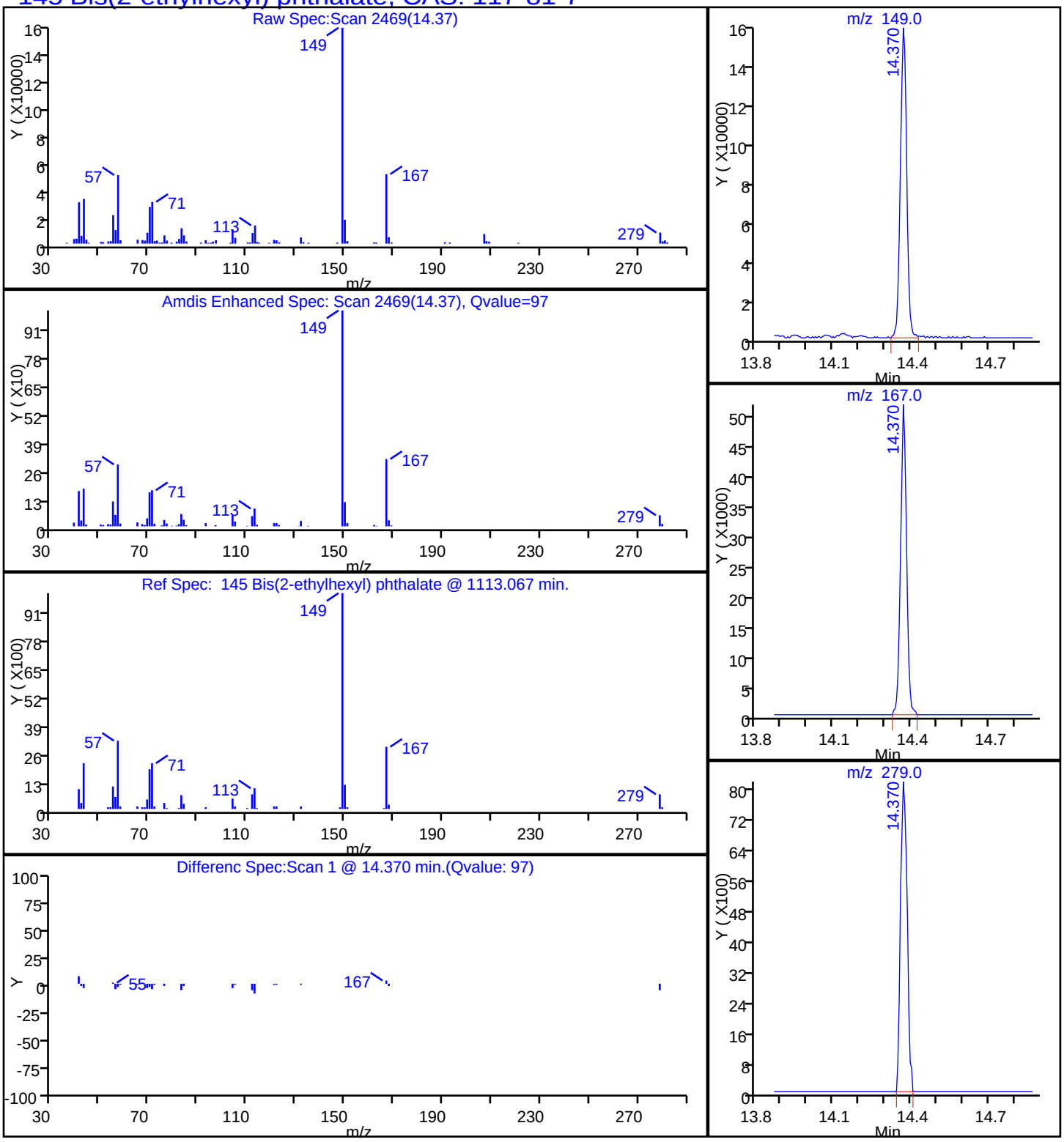


Report Date: 13-May-2015 05:26:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150512-6874.b\D0512025.D				
Injection Date:	12-May-2015 17:37:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-2-A	Lab Sample ID:	180-43702-2		
Client ID:	FB-01				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

145 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

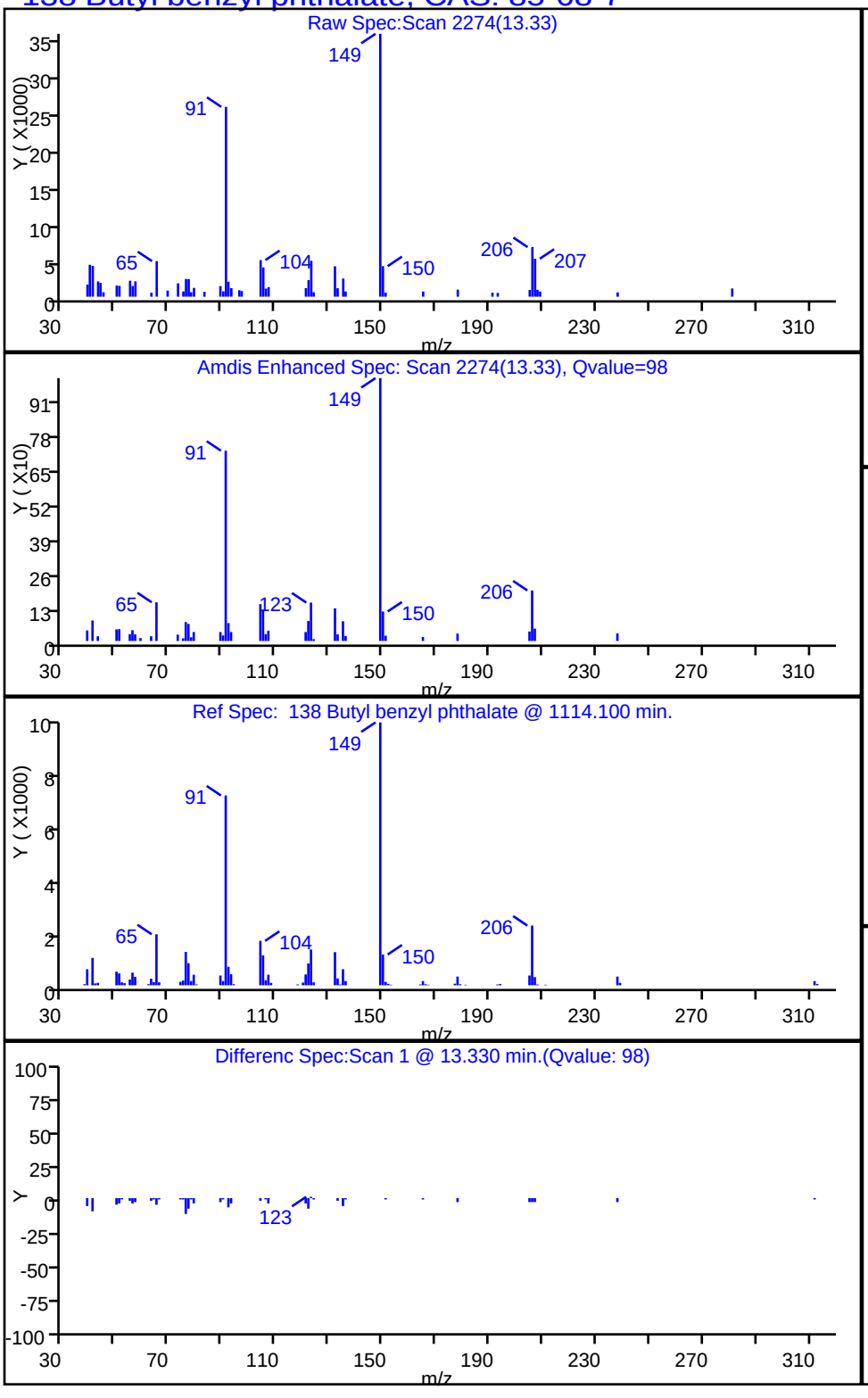


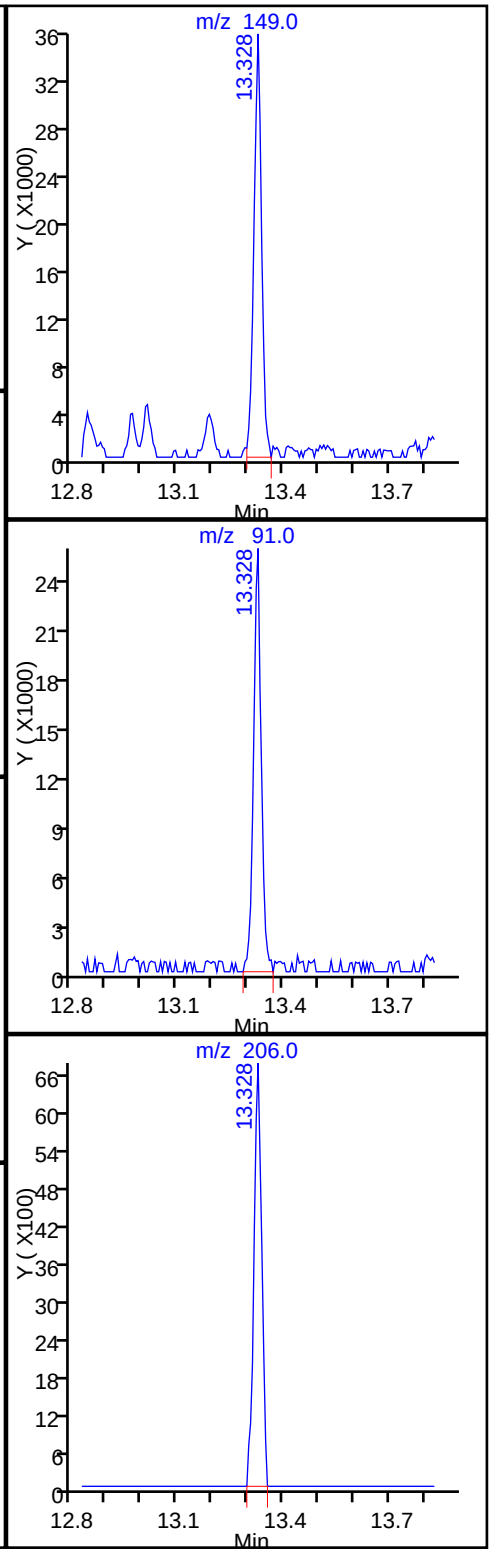
Report Date: 13-May-2015 05:26:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150512-6874.b\D0512025.D				
Injection Date:	12-May-2015 17:37:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-2-A	Lab Sample ID:	180-43702-2		
Client ID:	FB-01				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

138 Butyl benzyl phthalate, CAS: 85-68-7





FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-02 | Lab Sample ID: 180-43702-3

Matrix: Water | Lab File ID: D0515N25.D

Analysis Method: 8270D LL | Date Collected: 05/01/2015 15:00

Extract. Method: 3520C | Date Extracted: 05/07/2015 09:34

Sample wt/vol: 270(mL) | Date Analyzed: 05/15/2015 22:22

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141716 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.19	0.027
208-96-8	Acenaphthylene	ND		0.19	0.020
120-12-7	Anthracene	ND		0.19	0.018
92-87-5	Benzidine	ND		19	4.4
56-55-3	Benzo[a]anthracene	ND		0.19	0.034
205-99-2	Benzo[b]fluoranthene	ND		0.19	0.045
207-08-9	Benzo[k]fluoranthene	0.045	J	0.19	0.028
65-85-0	Benzoic acid	ND		4.6	1.5
191-24-2	Benzo[g,h,i]perylene	0.041	J	0.19	0.027
50-32-8	Benzo[a]pyrene	ND		0.19	0.026
111-91-1	Bis(2-chloroethoxy)methane	ND		0.93	0.12
111-44-4	Bis(2-chloroethyl)ether	ND		0.93	0.029
117-81-7	Bis(2-ethylhexyl) phthalate	9.1		1.9	0.41
108-60-1	2,2'-oxybis[1-chloropropane]	ND		0.93	0.022
101-55-3	4-Bromophenyl phenyl ether	ND		0.93	0.11
7005-72-3	4-Chlorophenyl phenyl ether	ND		0.93	0.074
91-58-7	2-Chloronaphthalene	ND		0.19	0.028
85-68-7	Butyl benzyl phthalate	0.33	J	0.93	0.20
218-01-9	Chrysene	ND		0.19	0.029
53-70-3	Dibenz(a,h)anthracene	0.045	J	0.19	0.025
84-74-2	Di-n-butyl phthalate	ND		0.93	0.22
117-84-0	Di-n-octyl phthalate	ND		0.93	0.19
84-66-2	Diethyl phthalate	ND		0.93	0.27
131-11-3	Dimethyl phthalate	ND		0.93	0.17
91-94-1	3,3'-Dichlorobenzidine	ND		0.93	0.14
121-14-2	2,4-Dinitrotoluene	ND		0.93	0.20
606-20-2	2,6-Dinitrotoluene	ND		0.93	0.13
95-57-8	2-Chlorophenol	ND		0.93	0.21
120-83-2	2,4-Dichlorophenol	ND		0.93	0.062
105-67-9	2,4-Dimethylphenol	ND		0.93	0.16
51-28-5	2,4-Dinitrophenol	ND		4.6	2.3
88-75-5	2-Nitrophenol	ND		0.93	0.10
88-06-2	2,4,6-Trichlorophenol	ND		0.93	0.28
122-66-7	1,2-Diphenylhydrazine(as Azobenzene)	ND		0.93	0.11

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-02 | Lab Sample ID: 180-43702-3

Matrix: Water | Lab File ID: D0515N25.D

Analysis Method: 8270D LL | Date Collected: 05/01/2015 15:00

Extract. Method: 3520C | Date Extracted: 05/07/2015 09:34

Sample wt/vol: 270(mL) | Date Analyzed: 05/15/2015 22:22

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141716 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		0.93	0.079
59-50-7	4-Chloro-3-methylphenol	ND		0.93	0.16
100-02-7	4-Nitrophenol	ND		4.6	0.74
534-52-1	4,6-Dinitro-2-methylphenol	ND		4.6	1.4
206-44-0	Fluoranthene	ND		0.19	0.020
86-73-7	Fluorene	ND		0.19	0.022
118-74-1	Hexachlorobenzene	ND		0.93	0.056
87-68-3	Hexachlorobutadiene	ND		0.93	0.087
77-47-4	Hexachlorocyclopentadiene	ND		0.93	0.13
67-72-1	Hexachloroethane	ND		0.93	0.13
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.19	0.040
78-59-1	Isophorone	ND		0.93	0.068
91-20-3	Naphthalene	0.059	J	0.19	0.021
98-95-3	Nitrobenzene	ND		1.9	0.14
621-64-7	N-Nitrosodi-n-propylamine	ND		0.93	0.046
62-75-9	N-Nitrosodimethylamine	ND		0.93	0.11
86-30-6	N-Nitrosodiphenylamine	ND		0.93	0.11
85-01-8	Phenanthrene	ND		0.19	0.038
129-00-0	Pyrene	ND		0.19	0.021
87-86-5	Pentachlorophenol	ND		0.93	0.46
108-95-2	Phenol	ND		0.93	0.051

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	79		30-118
321-60-8	2-Fluorobiphenyl	69		28-109
367-12-4	2-Fluorophenol (Surr)	73		20-105
4165-60-0	Nitrobenzene-d5 (Surr)	82		27-114
4165-62-2	Phenol-d5 (Surr)	88		25-105
1718-51-0	Terphenyl-d14 (Surr)	91		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D
Lims ID: 180-43702-E-3-A Lab Sample ID: 180-43702-3
Client ID: RB-02
Sample Type: Client
Inject. Date: 15-May-2015 22:22:30 ALS Bottle#: 24 Worklist Smp#: 25
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006938-025
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150515-6938.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 18-May-2015 02:48:50 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: piccolinov Date: 18-May-2015 02:38:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.191	6.196	-0.005	97	93068	8.00	
* 2 Naphthalene-d8	136	7.478	7.478	0.000	100	482429	8.00	
* 3 Acenaphthene-d10	164	9.183	9.177	0.005	92	367200	8.00	
* 4 Phenanthrene-d10	188	10.625	10.614	0.011	97	693962	8.00	
* 5 Chrysene-d12	240	14.381	14.354	0.026	96	580920	8.00	
* 6 Perylene-d12	264	17.271	17.239	0.032	95	487762	8.00	
$ 7 2-Fluorophenol	112	4.754	4.759	-0.005	92	350428	29.0	
$ 8 Phenol-d5	99	5.817	5.822	-0.005	94	573095	35.3	
$ 9 Nitrobenzene-d5	82	6.757	6.757	0.000	94	661959	32.7	
$ 10 2-Fluorobiphenyl	172	8.520	8.515	0.005	99	1670457	27.7	
$ 11 2,4,6-Tribromophenol	330	9.941	9.930	0.011	89	242358	31.8	
$ 12 Terphenyl-d14	244	12.548	12.527	0.021	99	2302020	36.4	
14 N-Nitrosodimethylamine	74		2.190				ND	
26 Phenol	94		5.838				ND	
29 Bis(2-chloroethyl)ether	93		5.918				ND	
30 2-Chlorophenol	128		5.982				ND	
38 2,2'-oxybis[1-chloropropan	45		6.479				ND	
41 N-Nitrosodi-n-propylamine	70		6.602				ND	
45 Hexachloroethane	117		6.725				ND	
46 Nitrobenzene	77		6.773				ND	
48 Isophorone	82		7.008				ND	
49 2-Nitrophenol	139		7.094				ND	
50 2,4-Dimethylphenol	107		7.131				ND	
52 Benzoic acid	122		7.190				ND	
53 Bis(2-chloroethoxy)methane	93		7.217				ND	
54 2,4-Dichlorophenol	162		7.334				ND	
56 1,2,4-Trichlorobenzene	180		7.420				ND	
58 Naphthalene	128	7.500	7.500	0.000	95	8374	0.1283	
62 Hexachlorobutadiene	225		7.623				ND	
67 4-Chloro-3-methylphenol	107		7.997				ND	
72 Hexachlorocyclopentadiene	237		8.328				ND	
74 2,4,6-Trichlorophenol	196		8.435				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
77 2-Chloronaphthalene	162		8.643				ND	
82 Dimethyl phthalate	163		8.878				ND	
84 2,6-Dinitrotoluene	165		8.942				ND	
85 Acenaphthylene	152		9.044				ND	
87 2,4-Dinitrophenol	184		9.204				ND	
88 Acenaphthene	153		9.209				ND	
89 4-Nitrophenol	109		9.247				ND	
91 2,4-Dinitrotoluene	165		9.327				ND	
98 Diethyl phthalate	149	9.551	9.546	0.005	98	19663	0.3301	
100 4-Chlorophenyl phenyl ethe	204		9.679				ND	
103 Fluorene	166		9.701				ND	
104 4,6-Dinitro-2-methylphenol	198		9.722				ND	
105 N-Nitrosodiphenylamine	169		9.786				ND	
90 1,2-Diphenylhydrazine	77		9.829				ND	
110 4-Bromophenyl phenyl ether	248		10.149				ND	
112 Hexachlorobenzene	284		10.240				ND	
116 Pentachlorophenol	266		10.411				ND	
121 Phenanthrene	178		10.641				ND	
122 Anthracene	178		10.694				ND	
126 Di-n-butyl phthalate	149	11.175	11.159	0.016	98	18470	0.1582	
131 Fluoranthene	202		12.035				ND	
132 Benzidine	184		12.169				ND	
133 Pyrene	202		12.356				ND	
138 Butyl benzyl phthalate	149	13.291	13.264	0.027	97	30504	0.7165	
144 3,3'-Dichlorobenzidine	252		14.258				ND	
145 Bis(2-ethylhexyl) phthalat	149	14.338	14.300	0.038	97	1153834	19.6	
146 Benzo[a]anthracene	228	14.370	14.332	0.038	96	3577	0.0426	M
147 Chrysene	228		14.402				ND	
150 Di-n-octyl phthalate	149		15.604				ND	
152 Benzo[b]fluoranthene	252	16.496	16.464	0.032	53	7255	0.0918	
153 Benzo[k]fluoranthene	252	16.549	16.517	0.032	90	7522	0.0971	
154 Benzo[a]pyrene	252		17.126				ND	
157 Indeno[1,2,3-cd]pyrene	276	19.632	19.578	0.054	0	5890	0.0786	M
158 Dibenz(a,h)anthracene	278	19.669	19.616	0.053	1	6116	0.0982	M
159 Benzo[g,h,i]perylene	276	20.316	20.257	0.059	0	5667	0.0887	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

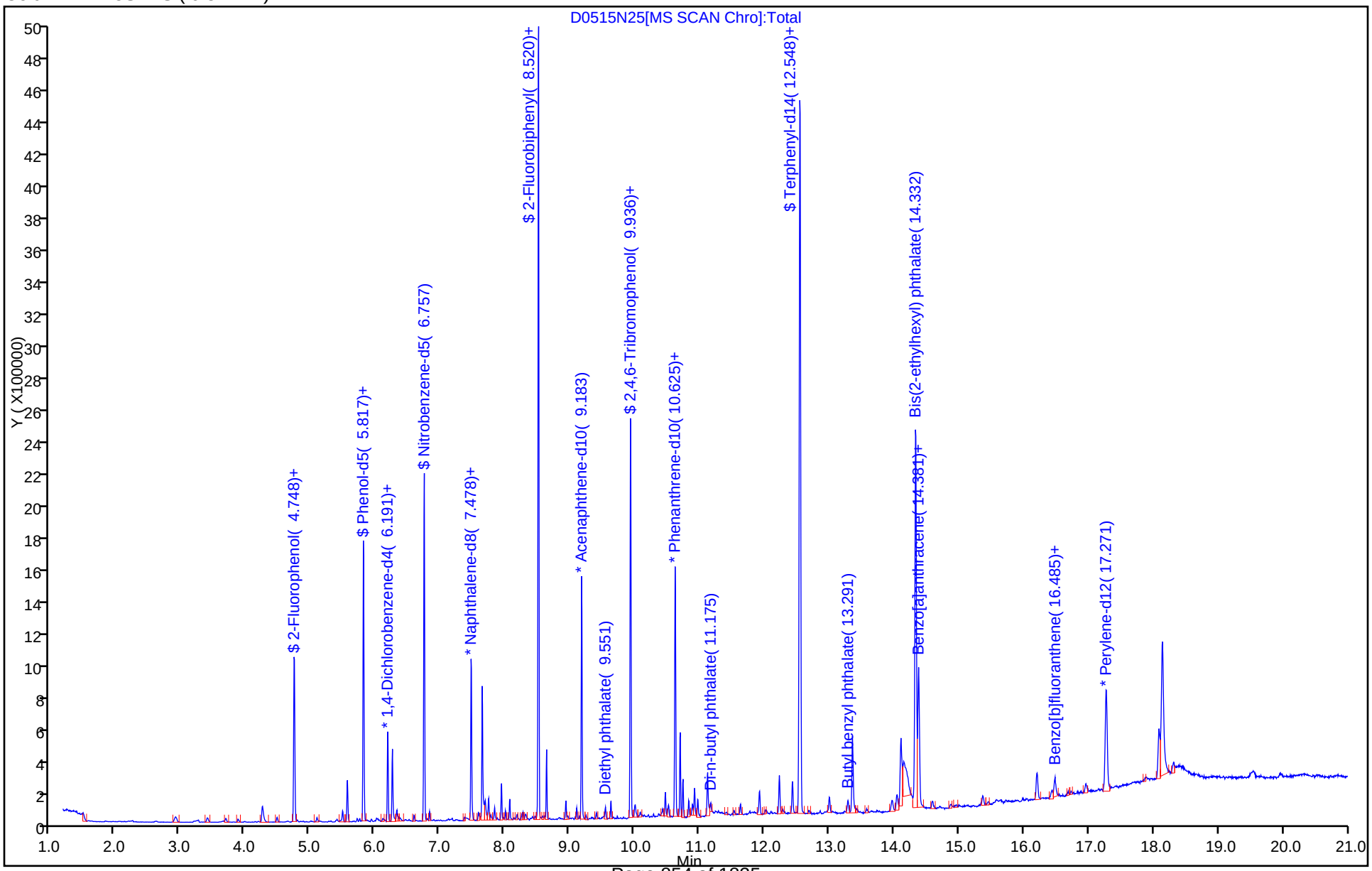
SVTAPITINTRNi_00007 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 18-May-2015 02:49:14 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D				
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3	Worklist Smp#:	25
Client ID:	RB-02				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

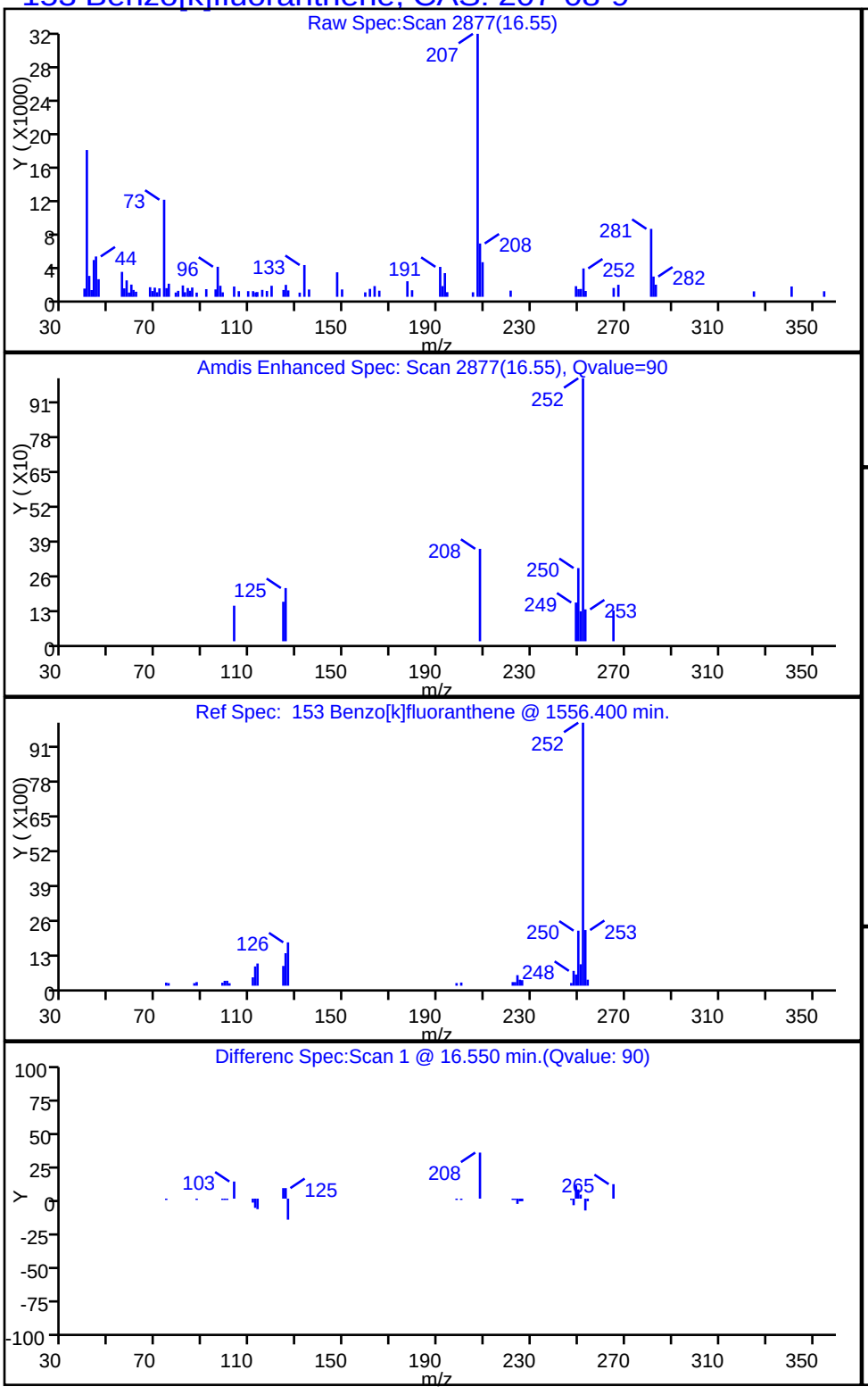


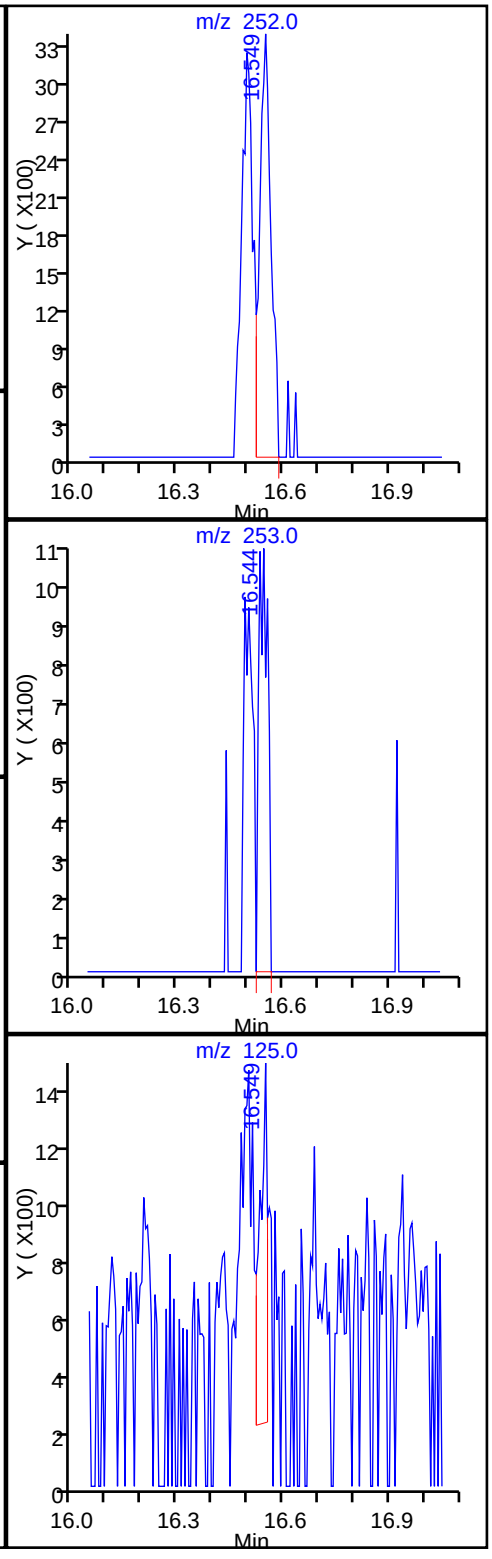
Report Date: 18-May-2015 02:49:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D				
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9



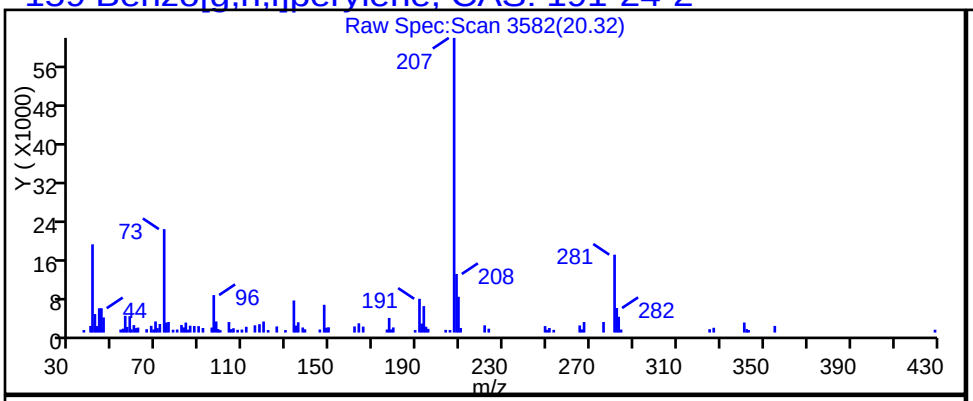


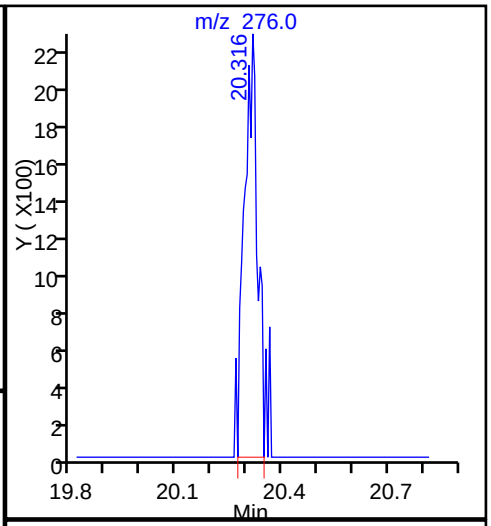
Report Date: 18-May-2015 02:49:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

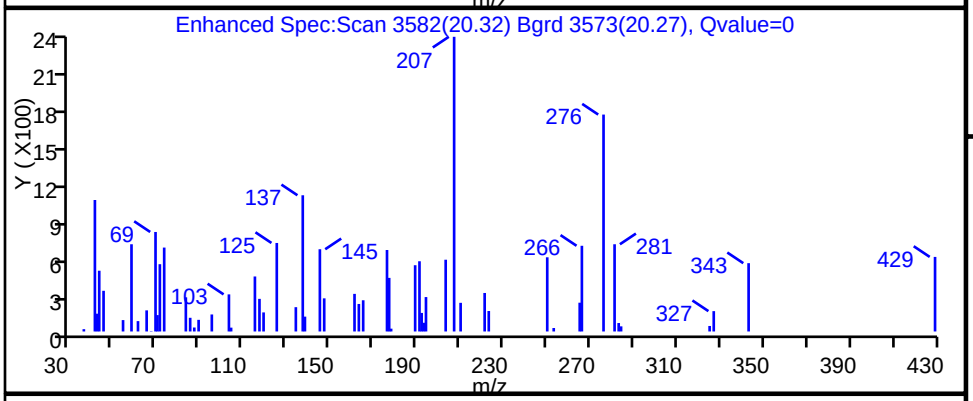
TestAmerica Pittsburgh

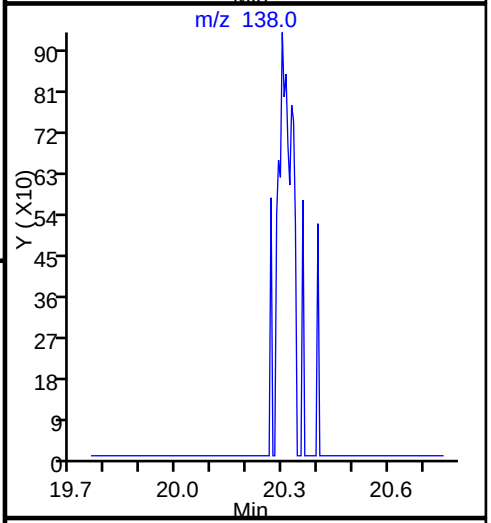
Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D				
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

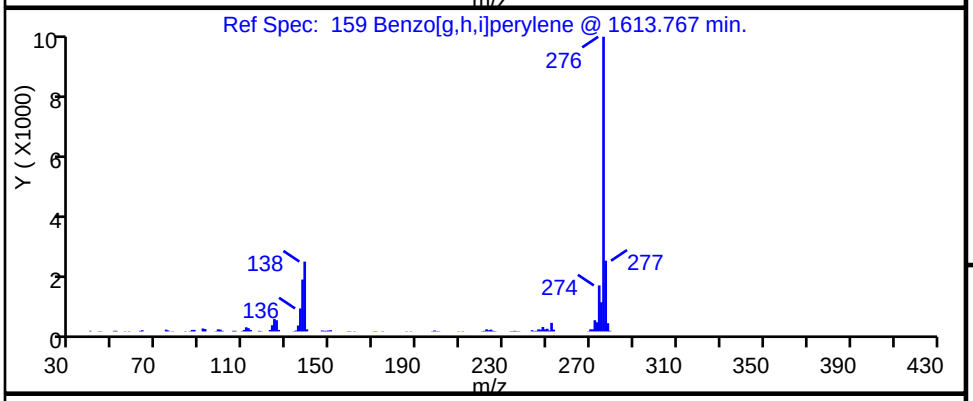
159 Benzo[g,h,i]perylene, CAS: 191-24-2

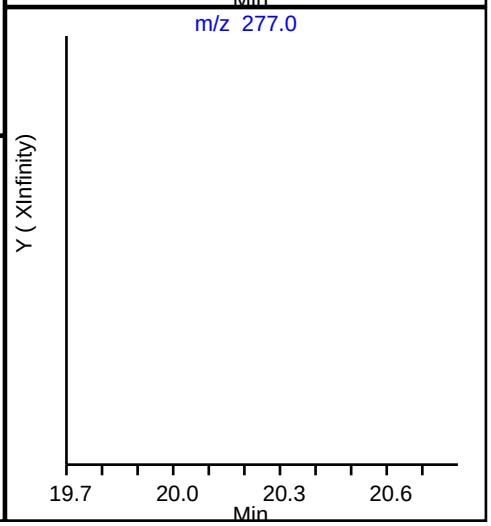


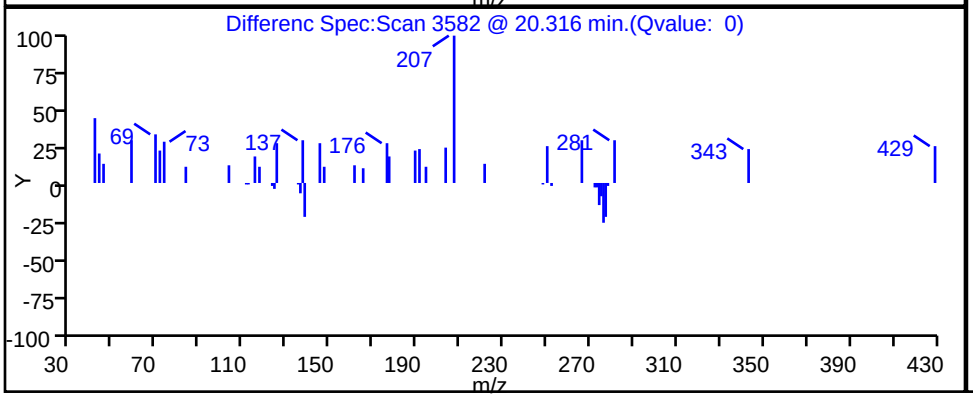










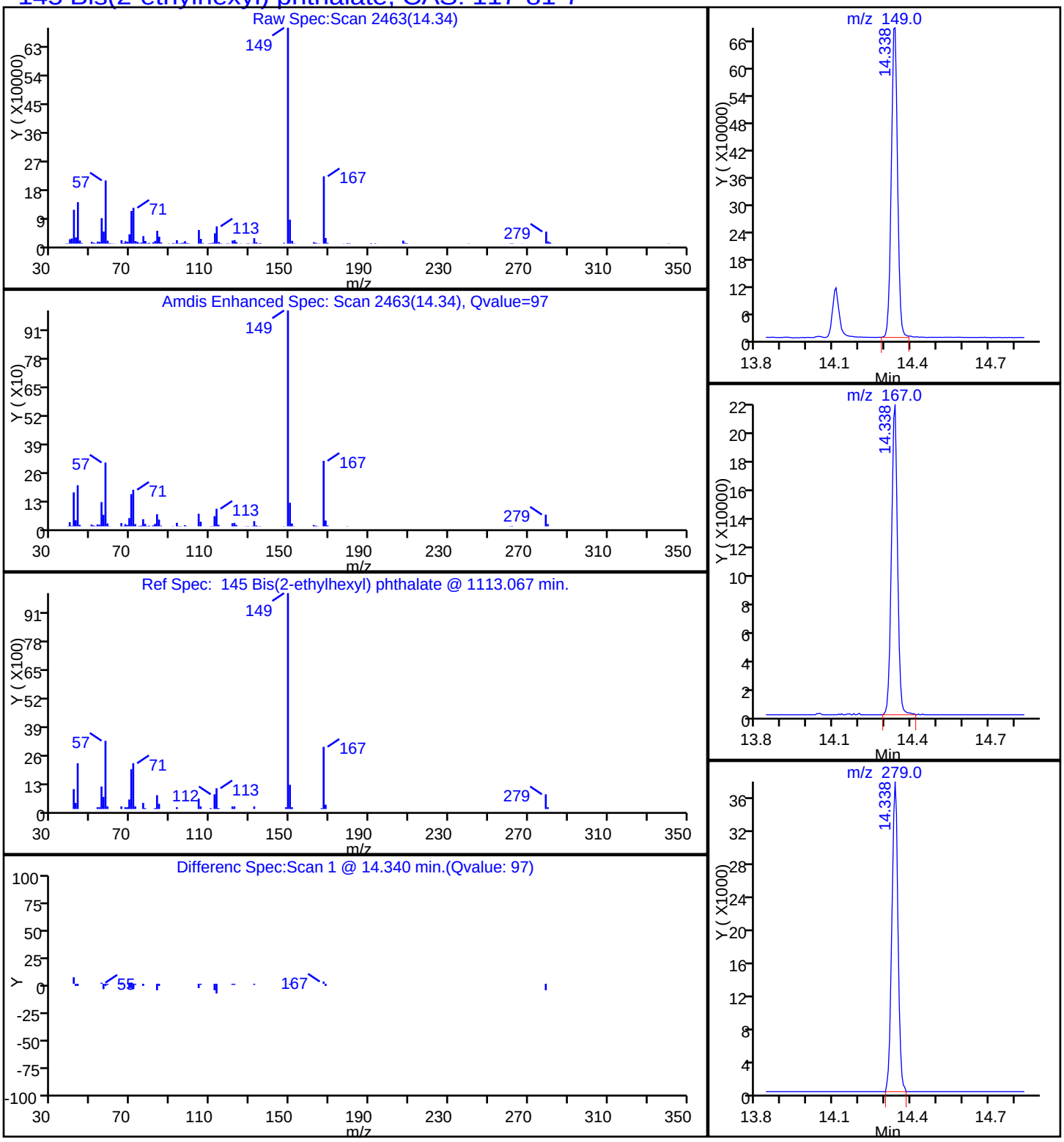


Report Date: 18-May-2015 02:49:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D				
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

145 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7



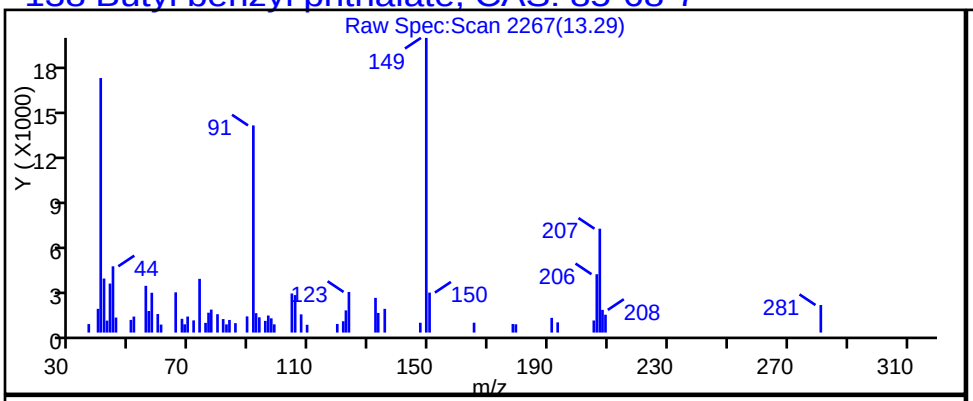
Report Date: 18-May-2015 02:49:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

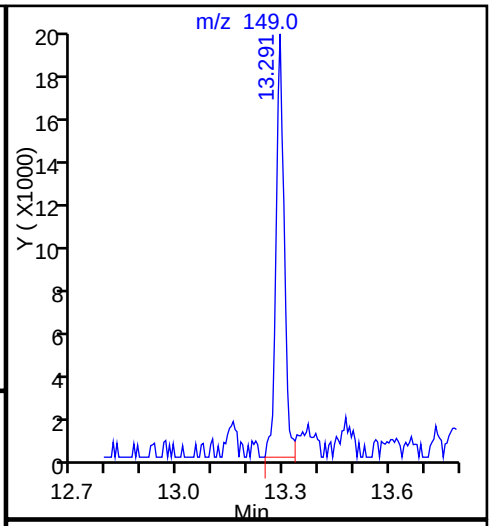
TestAmerica Pittsburgh

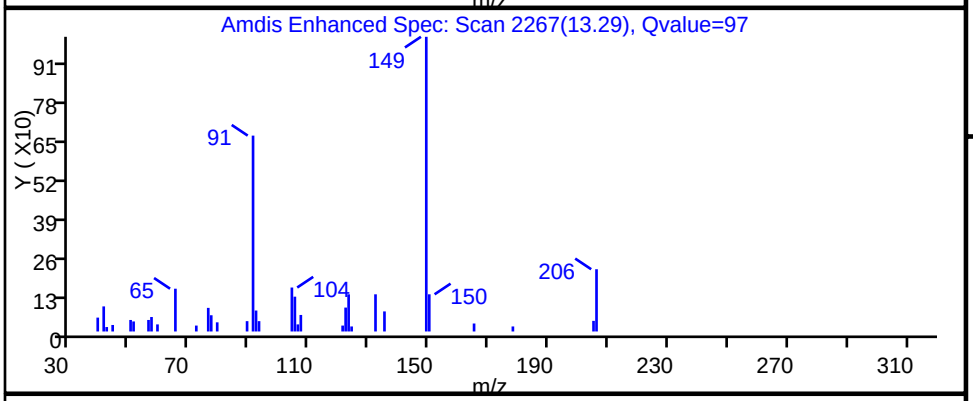
Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D

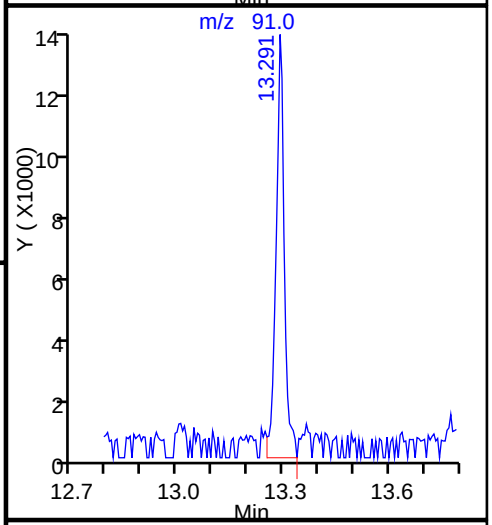
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

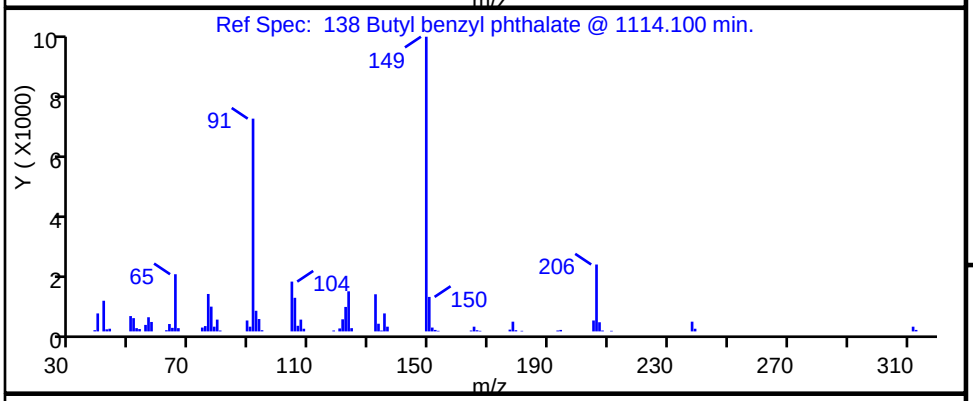
138 Butyl benzyl phthalate, CAS: 85-68-7

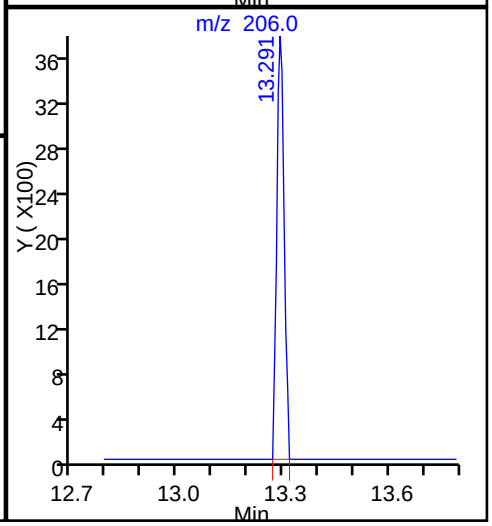


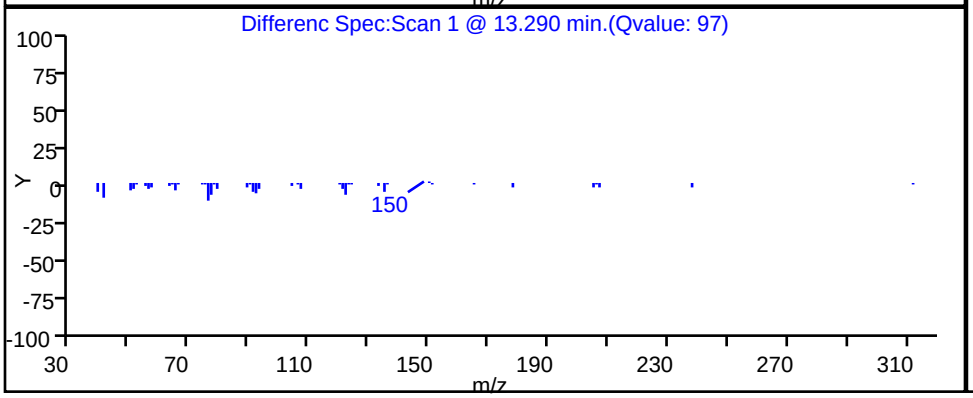










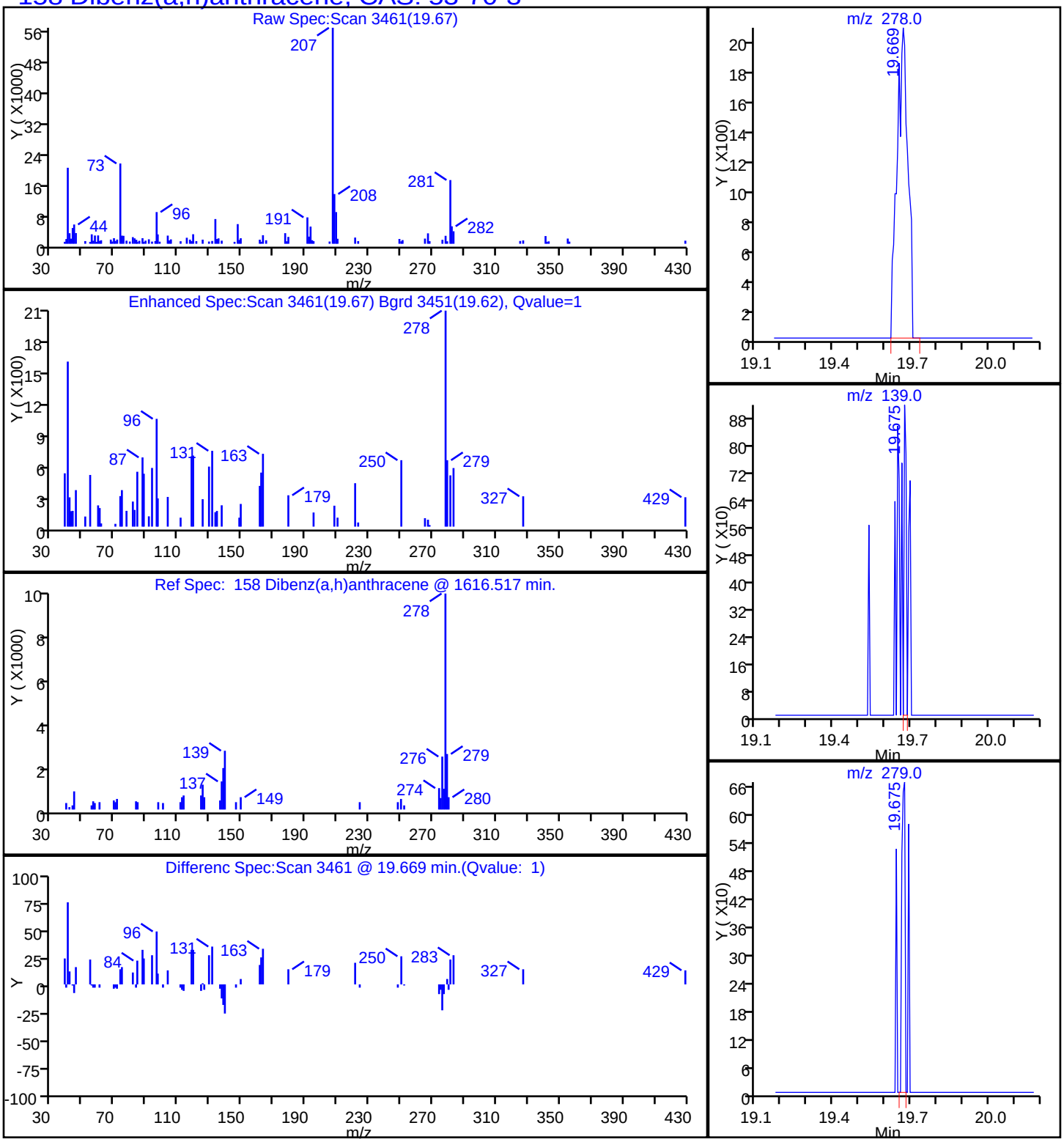


Report Date: 18-May-2015 02:49:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D				
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

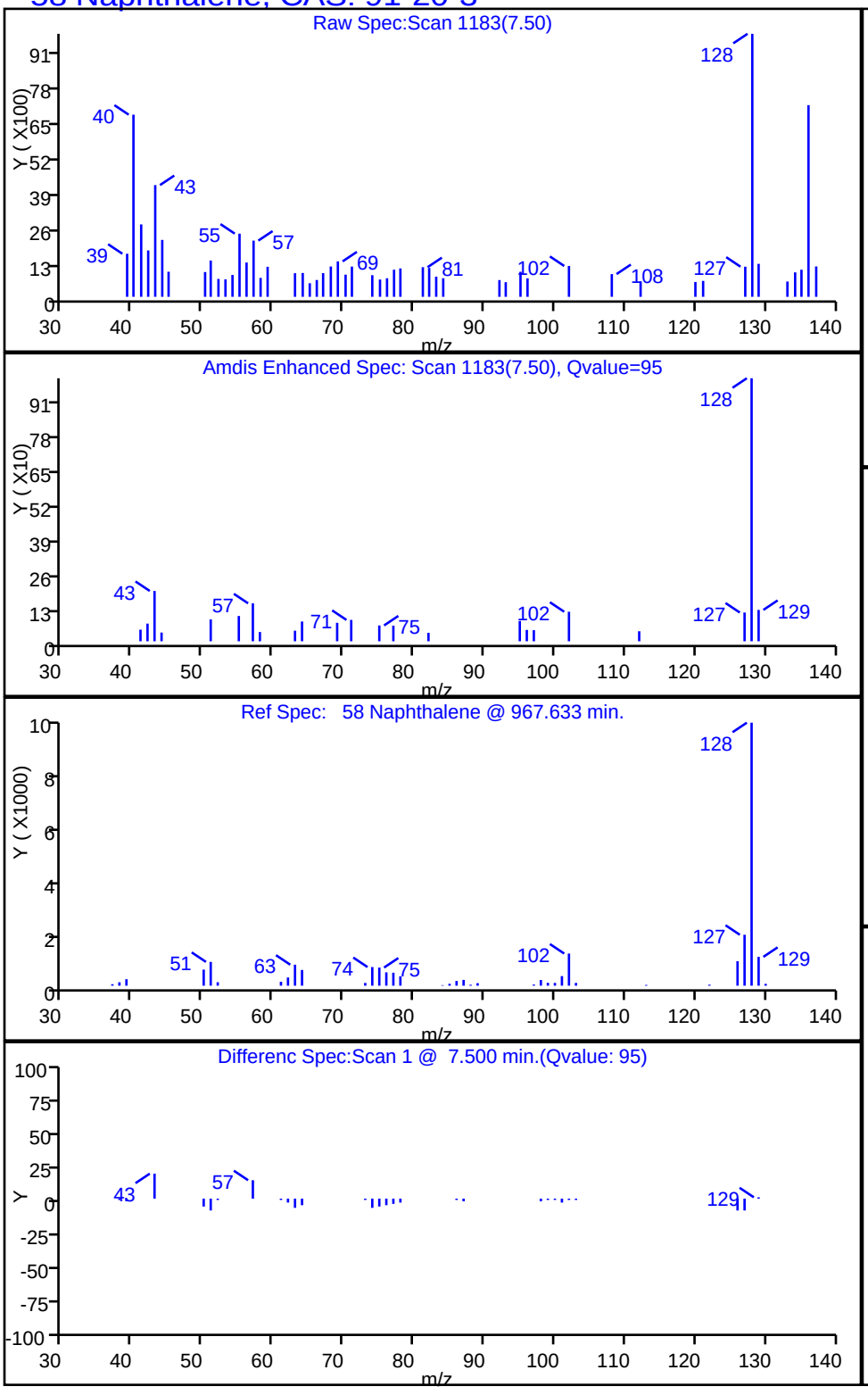


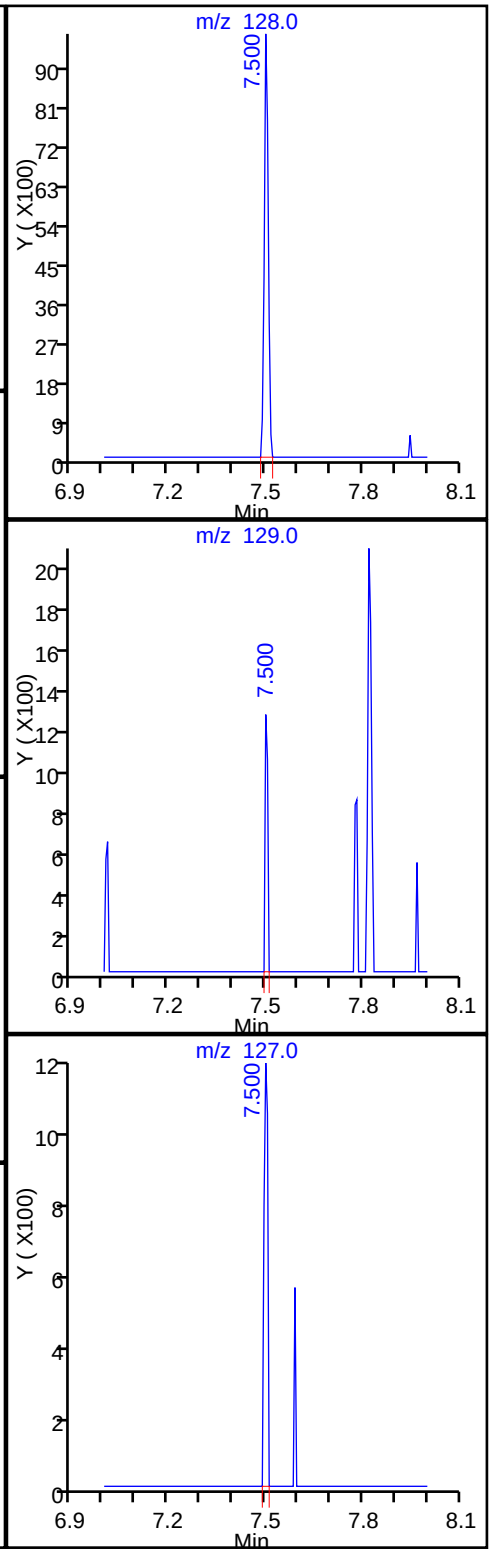
Report Date: 18-May-2015 02:49:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D		
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3
Client ID:	RB-02		
Operator ID:	003200	ALS Bottle#:	24 Worklist Smp#: 25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN

58 Naphthalene, CAS: 91-20-3





Manual Integration/User Assign Peak Report

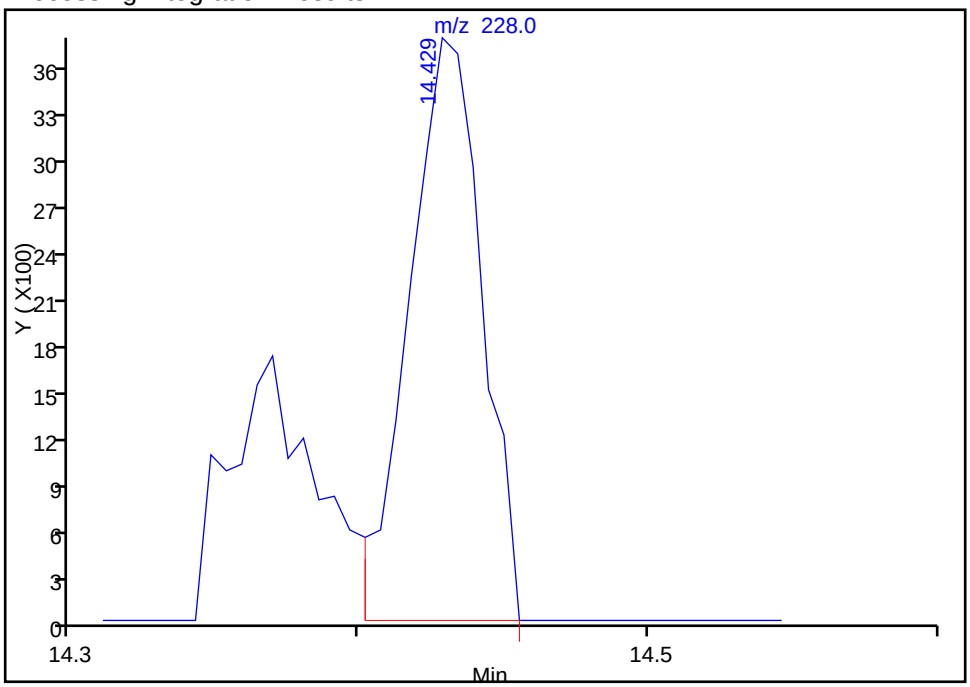
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D				
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

146 Benzo[a]anthracene, CAS: 56-55-3

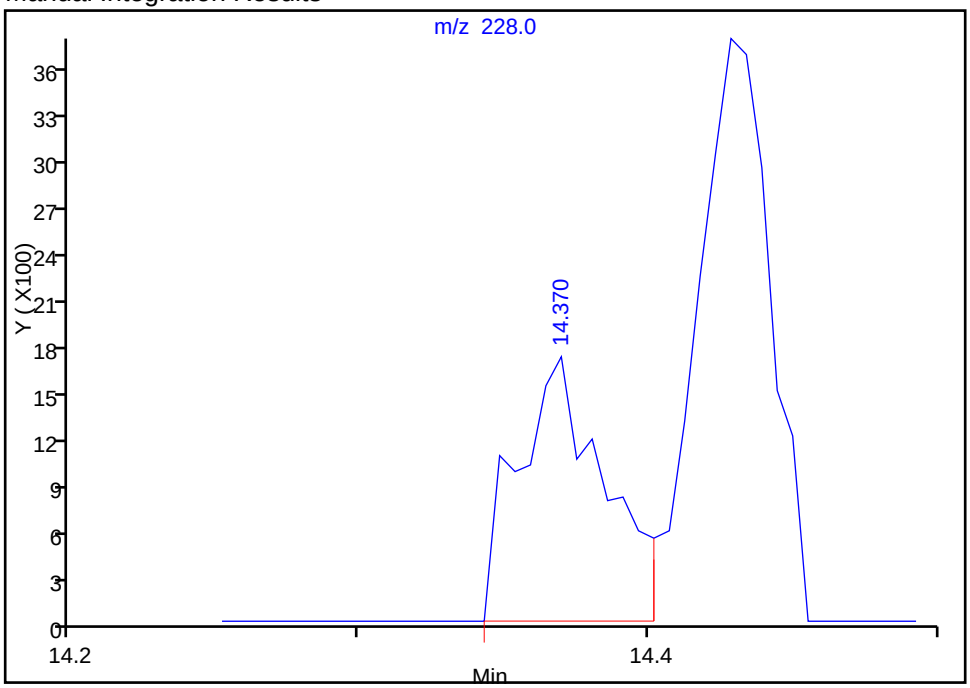
Processing Integration Results

RT: 14.43
Area: 6621
Amount: 0.078771
Amount Units: ng



Manual Integration Results

RT: 14.37
Area: 3577
Amount: 0.042556
Amount Units: ng



Reviewer: piccolinov, 18-May-2015 02:38:10
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

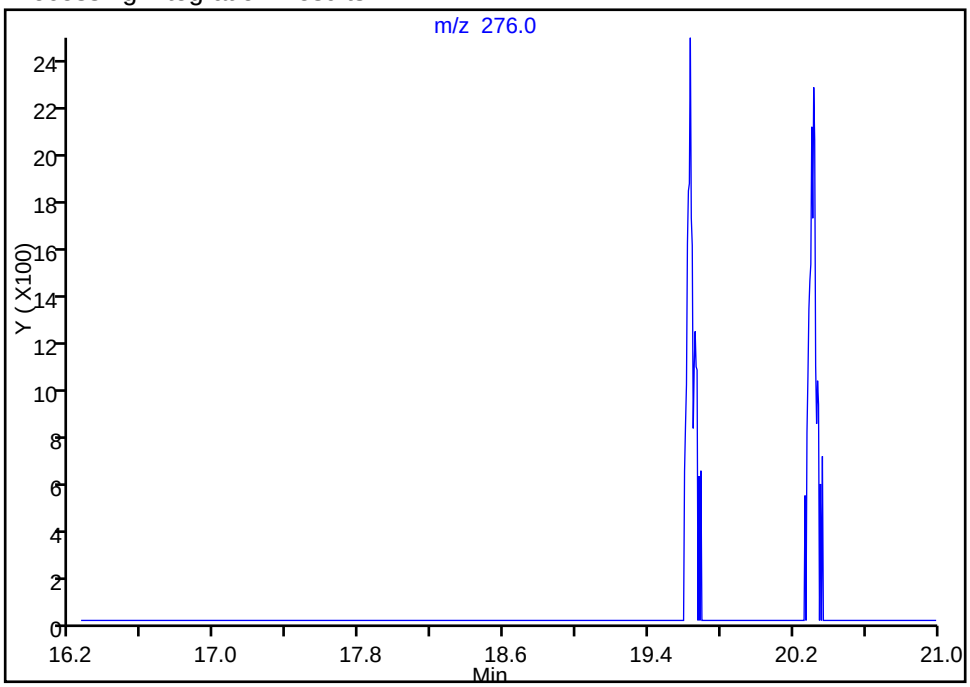
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D				
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

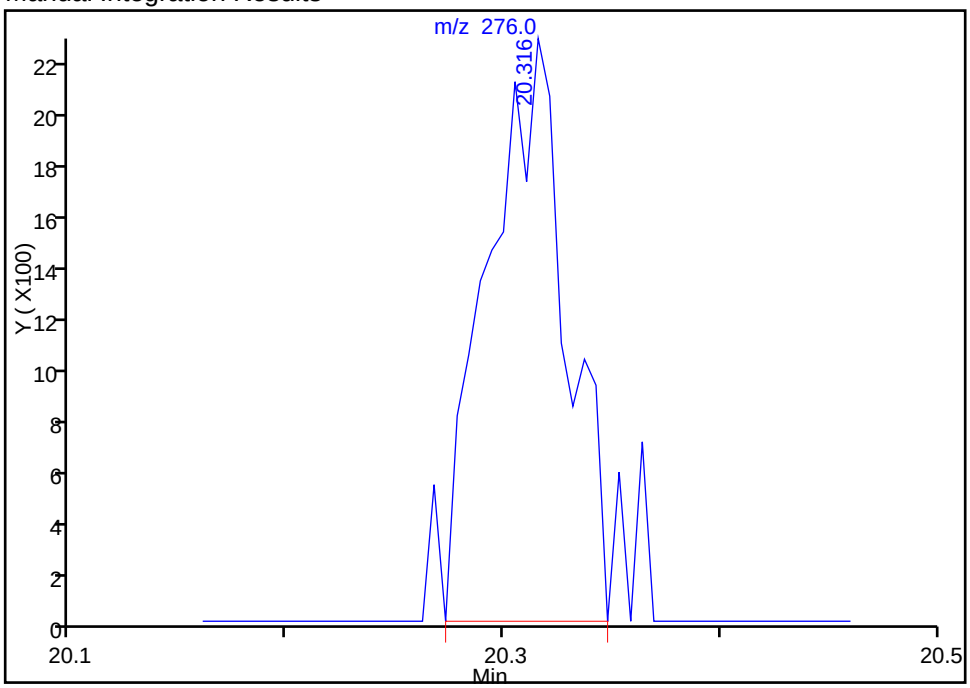
Not Detected
Expected RT: 20.26

Processing Integration Results



Manual Integration Results

RT: 20.32
Area: 5667
Amount: 0.088652
Amount Units: ng



Reviewer: piccolinov, 18-May-2015 02:38:10
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

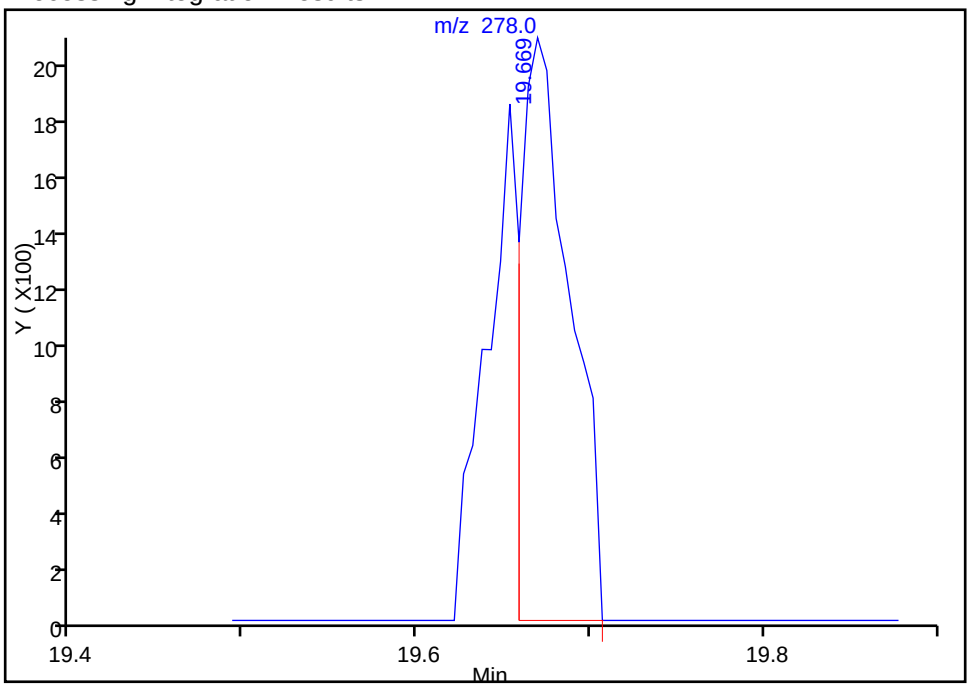
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D				
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

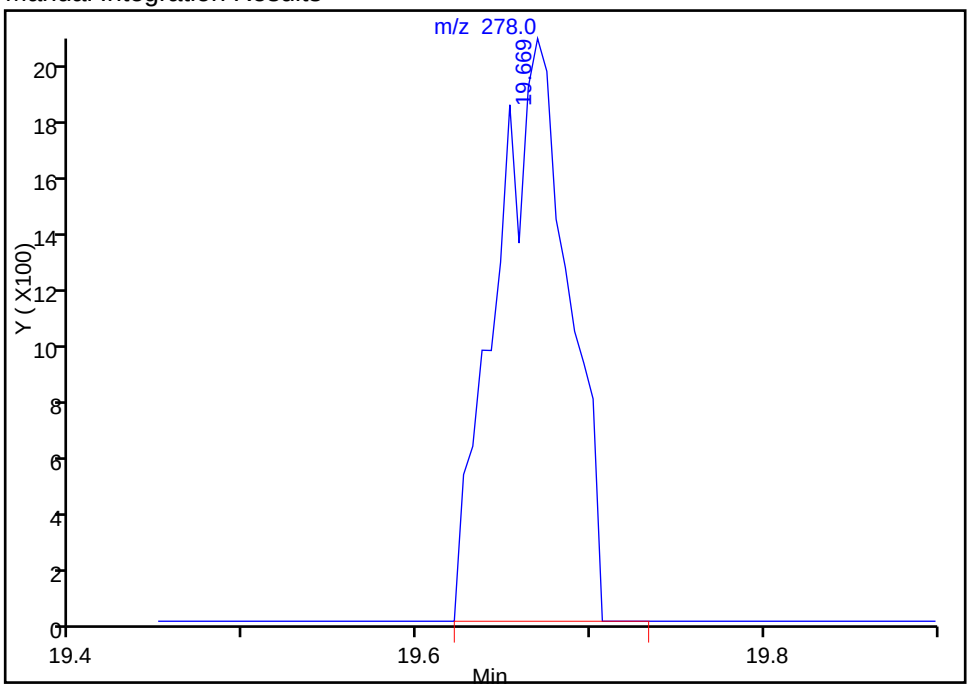
Processing Integration Results

RT: 19.67
Area: 4114
Amount: 0.066051
Amount Units: ng



Manual Integration Results

RT: 19.67
Area: 6116
Amount: 0.098194
Amount Units: ng



Reviewer: piccolinov, 18-May-2015 02:38:10
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

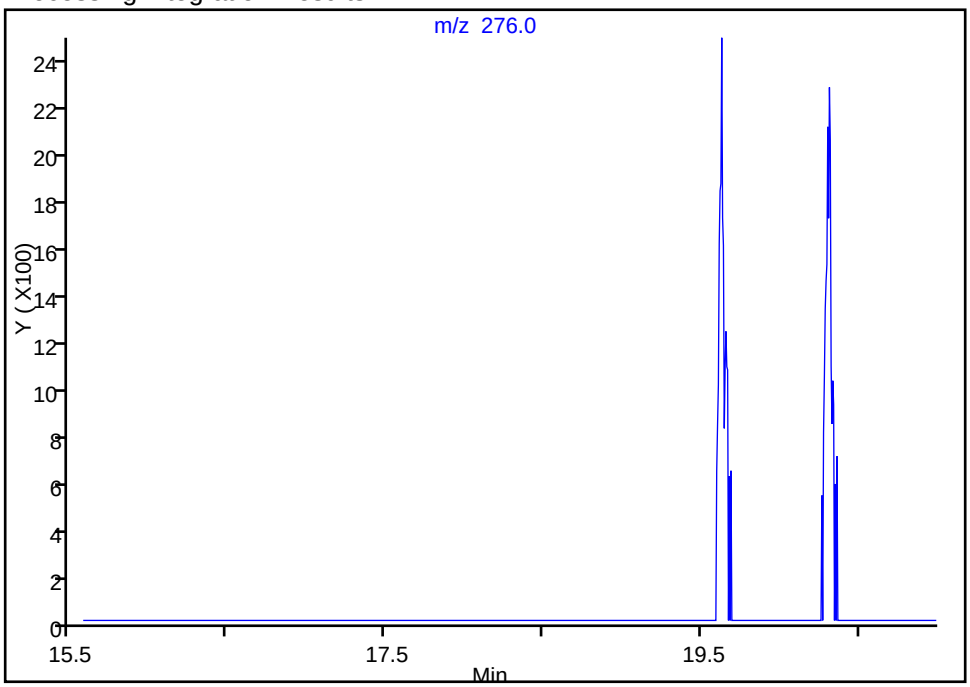
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N25.D				
Injection Date:	15-May-2015 22:22:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

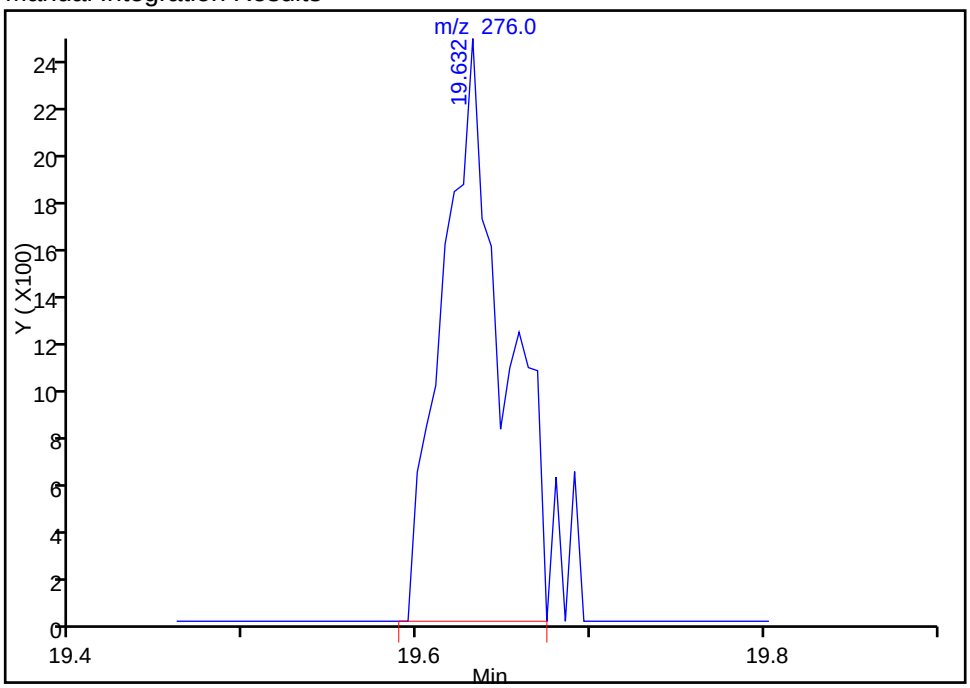
Not Detected
Expected RT: 19.58

Processing Integration Results



Manual Integration Results

RT: 19.63
Area: 5890
Amount: 0.078617
Amount Units: ng



Reviewer: piccolinov, 18-May-2015 02:38:10
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-02 | Lab Sample ID: 180-43702-4

Matrix: Water | Lab File ID: D0515N26.D

Analysis Method: 8270D LL | Date Collected: 05/01/2015 15:15

Extract. Method: 3520C | Date Extracted: 05/07/2015 09:34

Sample wt/vol: 260(mL) | Date Analyzed: 05/15/2015 22:49

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141716 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.19	0.028
208-96-8	Acenaphthylene	ND		0.19	0.021
120-12-7	Anthracene	ND		0.19	0.018
92-87-5	Benzidine	ND		19	4.6
56-55-3	Benzo[a]anthracene	ND		0.19	0.035
205-99-2	Benzo[b]fluoranthene	ND		0.19	0.047
207-08-9	Benzo[k]fluoranthene	ND		0.19	0.029
65-85-0	Benzoic acid	ND		4.8	1.6
191-24-2	Benzo[g,h,i]perylene	ND		0.19	0.028
50-32-8	Benzo[a]pyrene	ND		0.19	0.027
111-91-1	Bis(2-chloroethoxy)methane	ND		0.96	0.13
111-44-4	Bis(2-chloroethyl)ether	ND		0.96	0.030
117-81-7	Bis(2-ethylhexyl) phthalate	1.5	J	1.9	0.42
108-60-1	2,2'-oxybis[1-chloropropane]	ND		0.96	0.023
101-55-3	4-Bromophenyl phenyl ether	ND		0.96	0.11
7005-72-3	4-Chlorophenyl phenyl ether	ND		0.96	0.077
91-58-7	2-Chloronaphthalene	ND		0.19	0.030
85-68-7	Butyl benzyl phthalate	0.35	J	0.96	0.21
218-01-9	Chrysene	ND		0.19	0.030
53-70-3	Dibenz(a,h)anthracene	ND		0.19	0.026
84-74-2	Di-n-butyl phthalate	ND		0.96	0.23
117-84-0	Di-n-octyl phthalate	ND		0.96	0.20
84-66-2	Diethyl phthalate	ND		0.96	0.29
131-11-3	Dimethyl phthalate	ND		0.96	0.18
91-94-1	3,3'-Dichlorobenzidine	ND		0.96	0.14
121-14-2	2,4-Dinitrotoluene	ND		0.96	0.21
606-20-2	2,6-Dinitrotoluene	ND		0.96	0.13
95-57-8	2-Chlorophenol	ND		0.96	0.22
120-83-2	2,4-Dichlorophenol	ND		0.96	0.065
105-67-9	2,4-Dimethylphenol	ND		0.96	0.16
51-28-5	2,4-Dinitrophenol	ND		4.8	2.4
88-75-5	2-Nitrophenol	ND		0.96	0.11
88-06-2	2,4,6-Trichlorophenol	ND		0.96	0.29
122-66-7	1,2-Diphenylhydrazine(as Azobenzene)	ND		0.96	0.11

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-02 | Lab Sample ID: 180-43702-4

Matrix: Water | Lab File ID: D0515N26.D

Analysis Method: 8270D LL | Date Collected: 05/01/2015 15:15

Extract. Method: 3520C | Date Extracted: 05/07/2015 09:34

Sample wt/vol: 260(mL) | Date Analyzed: 05/15/2015 22:49

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141716 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		0.96	0.082
59-50-7	4-Chloro-3-methylphenol	ND		0.96	0.16
100-02-7	4-Nitrophenol	ND		4.8	0.77
534-52-1	4,6-Dinitro-2-methylphenol	ND		4.8	1.5
206-44-0	Fluoranthene	ND		0.19	0.020
86-73-7	Fluorene	ND		0.19	0.023
118-74-1	Hexachlorobenzene	ND		0.96	0.059
87-68-3	Hexachlorobutadiene	ND		0.96	0.090
77-47-4	Hexachlorocyclopentadiene	ND		0.96	0.13
67-72-1	Hexachloroethane	ND		0.96	0.13
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.19	0.042
78-59-1	Isophorone	ND		0.96	0.071
91-20-3	Naphthalene	ND		0.19	0.022
98-95-3	Nitrobenzene	ND		1.9	0.14
621-64-7	N-Nitrosodi-n-propylamine	ND		0.96	0.048
62-75-9	N-Nitrosodimethylamine	ND		0.96	0.11
86-30-6	N-Nitrosodiphenylamine	ND		0.96	0.12
85-01-8	Phenanthrene	ND		0.19	0.040
129-00-0	Pyrene	ND		0.19	0.022
87-86-5	Pentachlorophenol	ND		0.96	0.48
108-95-2	Phenol	0.14	J	0.96	0.053

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	69		30-118
321-60-8	2-Fluorobiphenyl	65		28-109
367-12-4	2-Fluorophenol (Surr)	66		20-105
4165-60-0	Nitrobenzene-d5 (Surr)	78		27-114
4165-62-2	Phenol-d5 (Surr)	80		25-105
1718-51-0	Terphenyl-d14 (Surr)	79		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N26.D
Lims ID: 180-43702-E-4-A Lab Sample ID: 180-43702-4
Client ID: FB-02
Sample Type: Client
Inject. Date: 15-May-2015 22:49:30 ALS Bottle#: 25 Worklist Smp#: 26
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006938-026
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150515-6938.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 18-May-2015 02:48:50 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: piccolinov Date: 18-May-2015 02:39:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.196	6.196	0.000	97	92355	8.00	
* 2 Naphthalene-d8	136	7.478	7.478	0.000	100	478511	8.00	
* 3 Acenaphthene-d10	164	9.182	9.177	0.005	91	380484	8.00	
* 4 Phenanthrene-d10	188	10.625	10.614	0.011	97	699264	8.00	
* 5 Chrysene-d12	240	14.380	14.354	0.026	97	582981	8.00	
* 6 Perylene-d12	264	17.276	17.239	0.037	95	478985	8.00	
$ 7 2-Fluorophenol	112	4.754	4.759	-0.005	91	315810	26.4	
$ 8 Phenol-d5	99	5.822	5.822	0.000	94	517645	32.1	
$ 9 Nitrobenzene-d5	82	6.757	6.757	0.000	94	623430	31.0	
$ 10 2-Fluorobiphenyl	172	8.520	8.515	0.005	99	1617376	25.9	
$ 11 2,4,6-Tribromophenol	330	9.941	9.930	0.011	89	210894	27.4	
$ 12 Terphenyl-d14	244	12.548	12.527	0.021	99	2004464	31.6	
14 N-Nitrosodimethylamine	74		2.190				ND	
26 Phenol	94	5.833	5.838	-0.005	84	5520	0.3014	
29 Bis(2-chloroethyl)ether	93		5.918				ND	
30 2-Chlorophenol	128		5.982				ND	
38 2,2'-oxybis[1-chloropropan	45		6.479				ND	
41 N-Nitrosodi-n-propylamine	70		6.602				ND	
45 Hexachloroethane	117		6.725				ND	
46 Nitrobenzene	77		6.773				ND	
48 Isophorone	82		7.008				ND	
49 2-Nitrophenol	139		7.094				ND	
50 2,4-Dimethylphenol	107		7.131				ND	
52 Benzoic acid	122		7.190				ND	
53 Bis(2-chloroethoxy)methane	93		7.217				ND	
54 2,4-Dichlorophenol	162		7.334				ND	
56 1,2,4-Trichlorobenzene	180		7.420				ND	
58 Naphthalene	128		7.500				ND	
62 Hexachlorobutadiene	225		7.623				ND	
67 4-Chloro-3-methylphenol	107		7.997				ND	
72 Hexachlorocyclopentadiene	237		8.328				ND	
74 2,4,6-Trichlorophenol	196		8.435				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
77 2-Chloronaphthalene	162		8.643				ND	
82 Dimethyl phthalate	163		8.878				ND	
84 2,6-Dinitrotoluene	165		8.942				ND	
85 Acenaphthylene	152		9.044				ND	
87 2,4-Dinitrophenol	184		9.204				ND	
88 Acenaphthene	153		9.209				ND	
89 4-Nitrophenol	109		9.247				ND	
91 2,4-Dinitrotoluene	165		9.327				ND	
98 Diethyl phthalate	149	9.551	9.546	0.005	98	36068	0.5844	
100 4-Chlorophenyl phenyl ethe	204		9.679				ND	
103 Fluorene	166		9.701				ND	
104 4,6-Dinitro-2-methylphenol	198		9.722				ND	
105 N-Nitrosodiphenylamine	169		9.786				ND	
90 1,2-Diphenylhydrazine	77		9.829				ND	
110 4-Bromophenyl phenyl ether	248		10.149				ND	
112 Hexachlorobenzene	284		10.240				ND	
116 Pentachlorophenol	266		10.411				ND	
121 Phenanthrene	178		10.641				ND	
122 Anthracene	178		10.694				ND	
126 Di-n-butyl phthalate	149	11.175	11.159	0.016	99	19363	0.1646	
131 Fluoranthene	202		12.035				ND	
132 Benzidine	184		12.169				ND	
133 Pyrene	202		12.356				ND	
138 Butyl benzyl phthalate	149	13.291	13.264	0.027	98	30683	0.7182	
144 3,3'-Dichlorobenzidine	252		14.258				ND	
145 Bis(2-ethylhexyl) phthalat	149	14.338	14.300	0.038	98	184276	3.11	
146 Benzo[a]anthracene	228		14.332				ND	
147 Chrysene	228		14.402				ND	
150 Di-n-octyl phthalate	149		15.604				ND	
152 Benzo[b]fluoranthene	252		16.464				ND	
153 Benzo[k]fluoranthene	252		16.517				ND	
154 Benzo[a]pyrene	252		17.126				ND	
157 Indeno[1,2,3-cd]pyrene	276		19.578				ND	
158 Dibenz(a,h)anthracene	278		19.616				ND	
159 Benzo[g,h,i]perylene	276		20.257				ND	

Reagents:

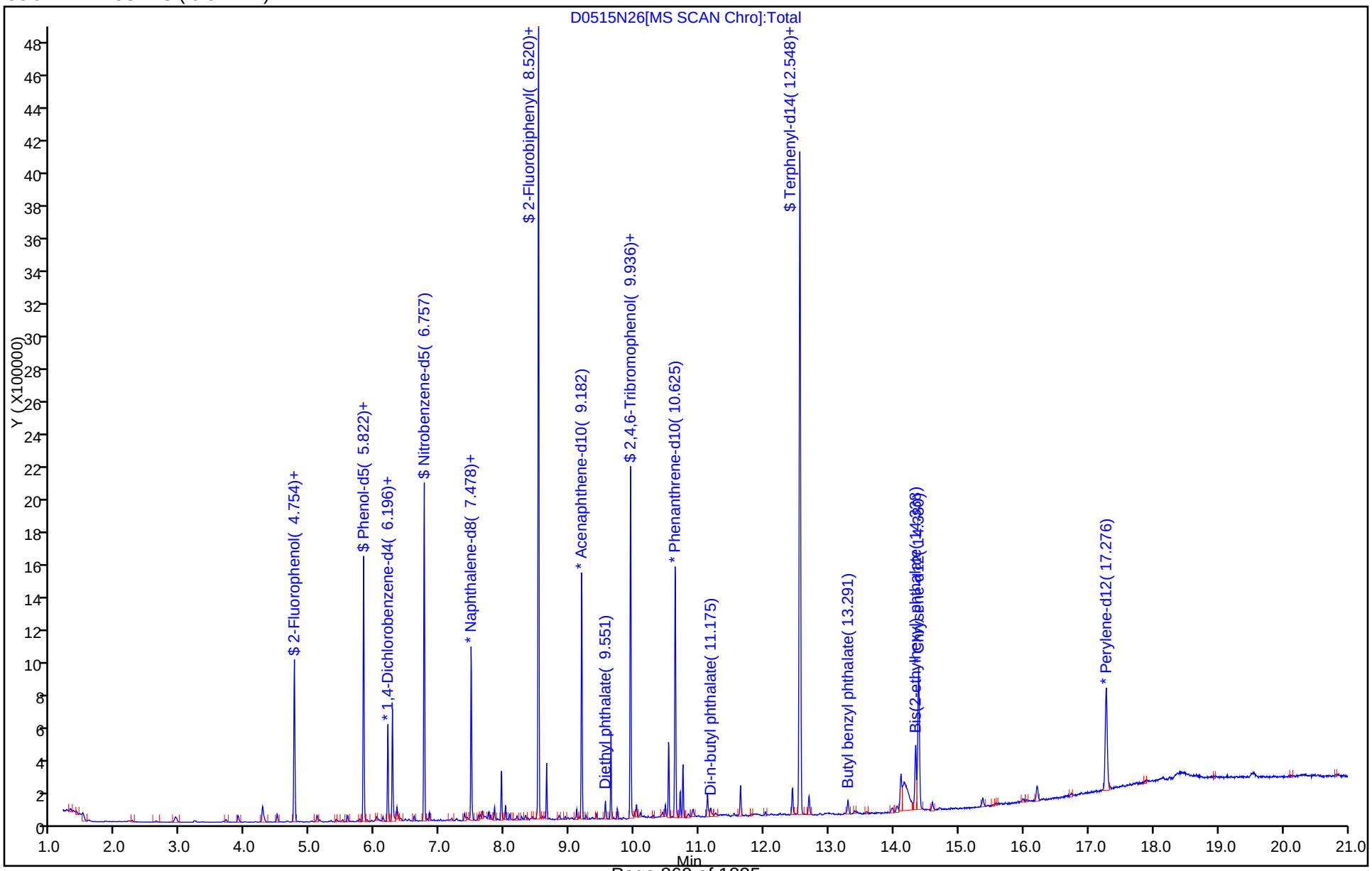
SVTAPITINTRNi_00007 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 18-May-2015 02:49:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N26.D				
Injection Date:	15-May-2015 22:49:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	180-43702-E-4-A	Lab Sample ID:	180-43702-4	Worklist Smp#:	26
Client ID:	FB-02				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

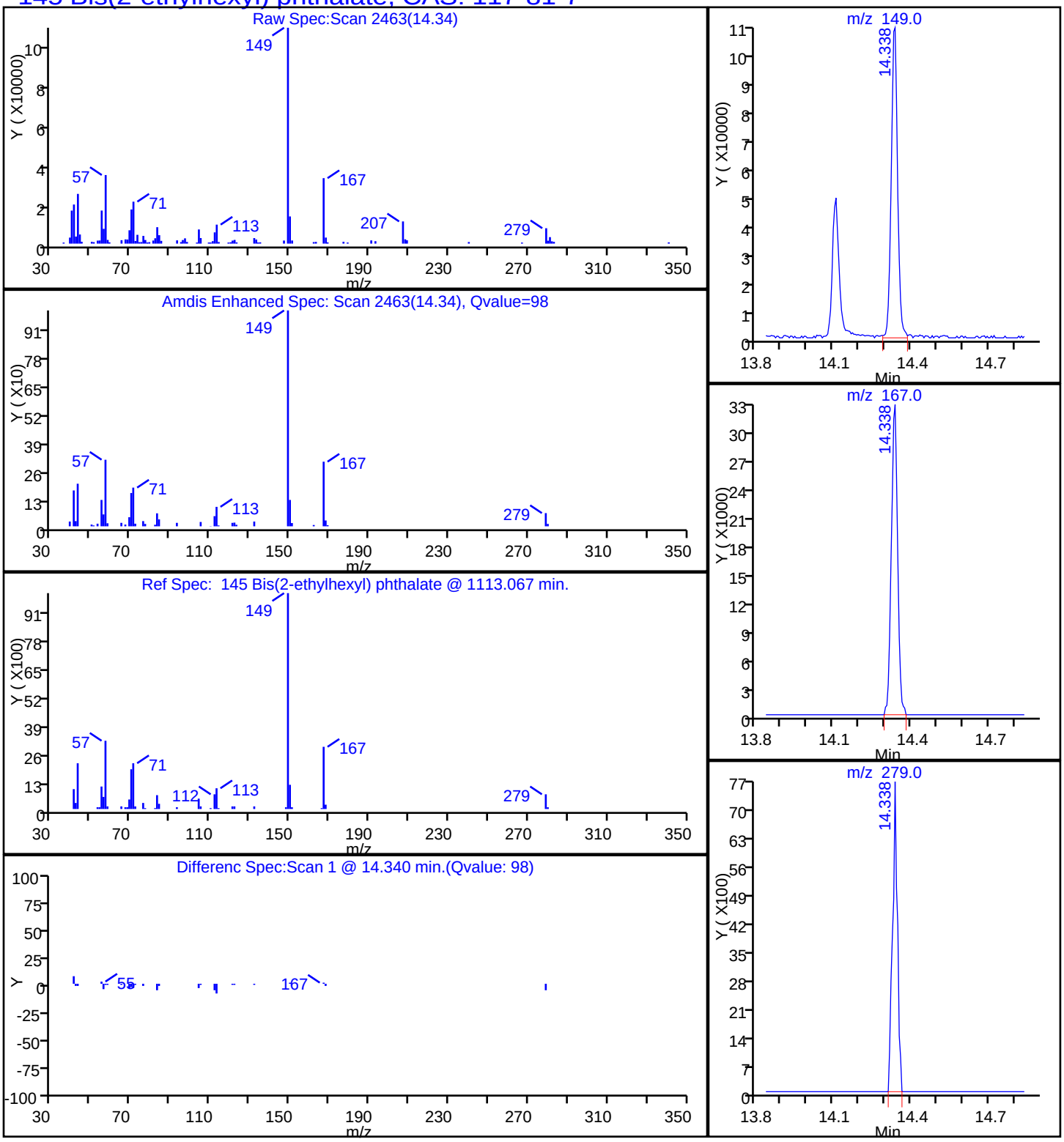


Report Date: 18-May-2015 02:49:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N26.D				
Injection Date:	15-May-2015 22:49:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-4-A	Lab Sample ID:	180-43702-4		
Client ID:	FB-02				
Operator ID:	003200	ALS Bottle#:	25	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

145 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

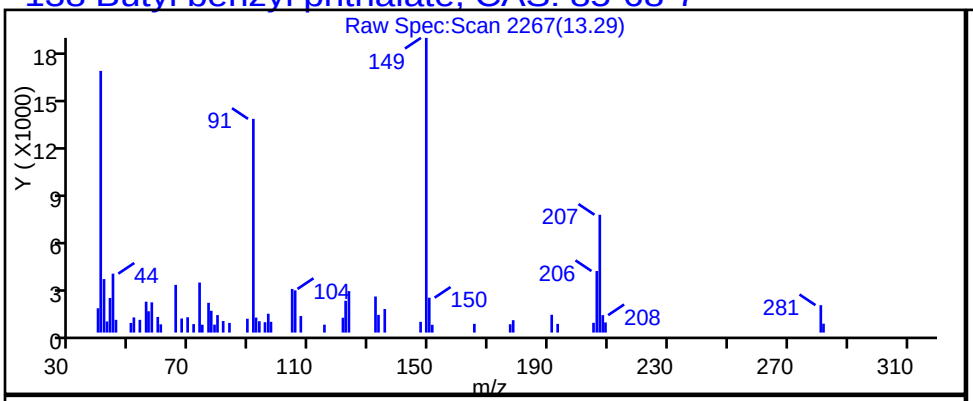


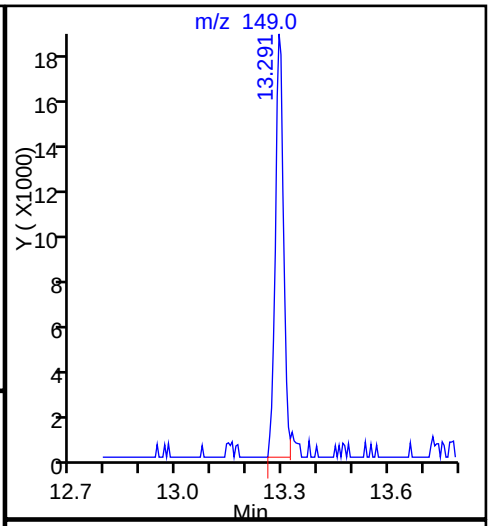
Report Date: 18-May-2015 02:49:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

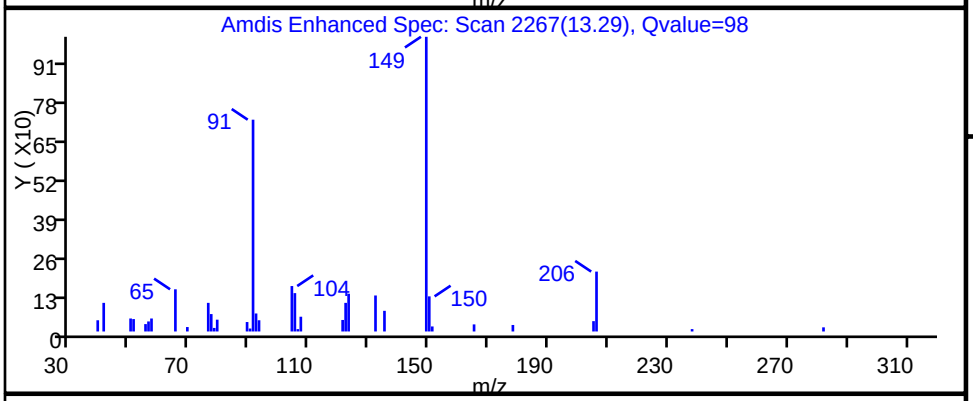
TestAmerica Pittsburgh

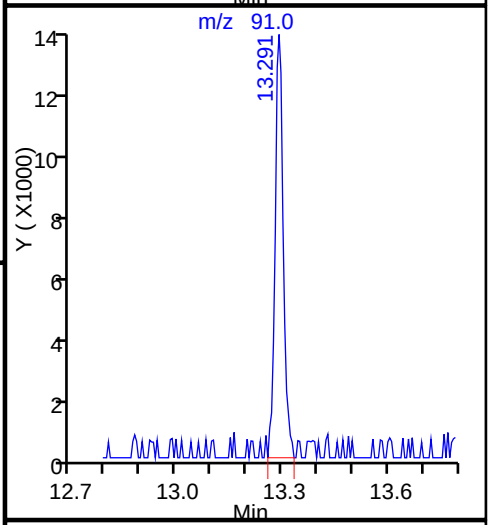
Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N26.D				
Injection Date:	15-May-2015 22:49:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-4-A	Lab Sample ID:	180-43702-4		
Client ID:	FB-02				
Operator ID:	003200	ALS Bottle#:	25	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

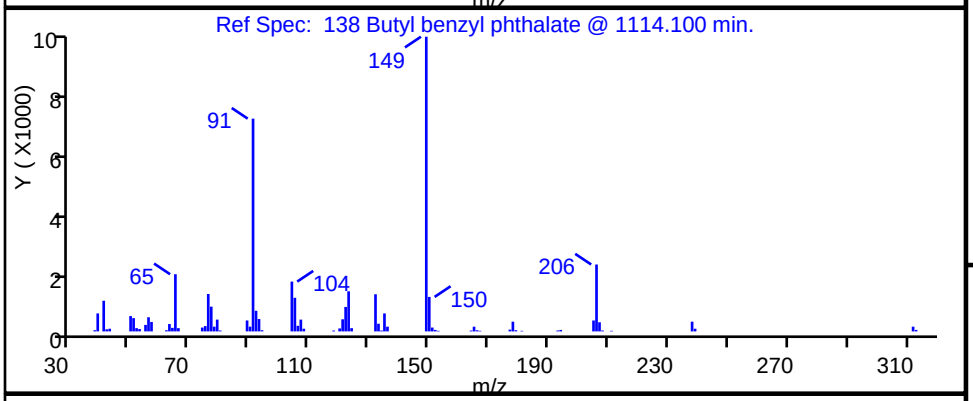
138 Butyl benzyl phthalate, CAS: 85-68-7

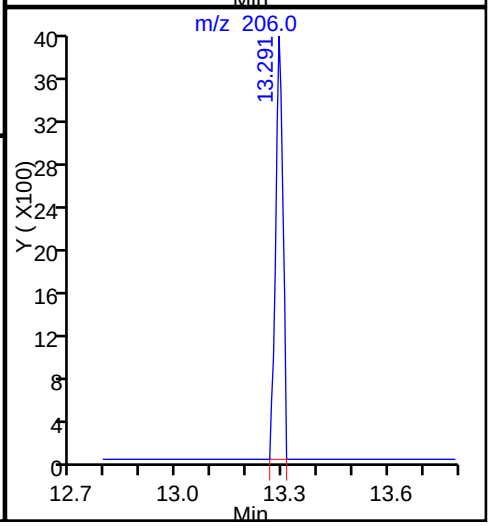


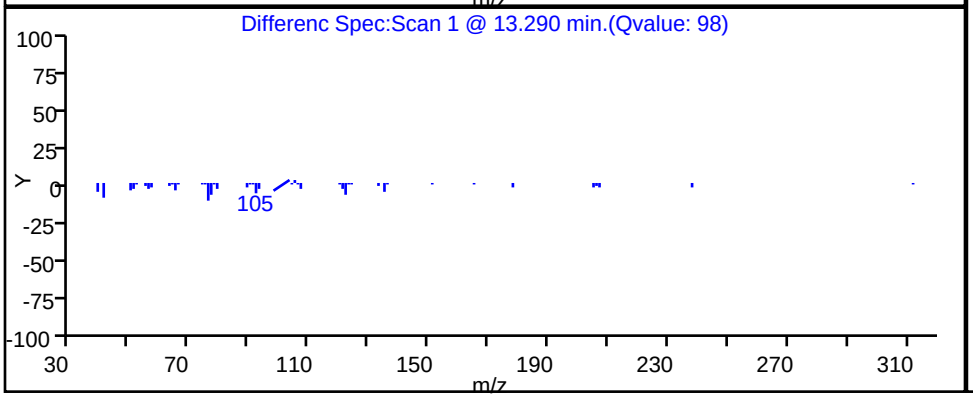










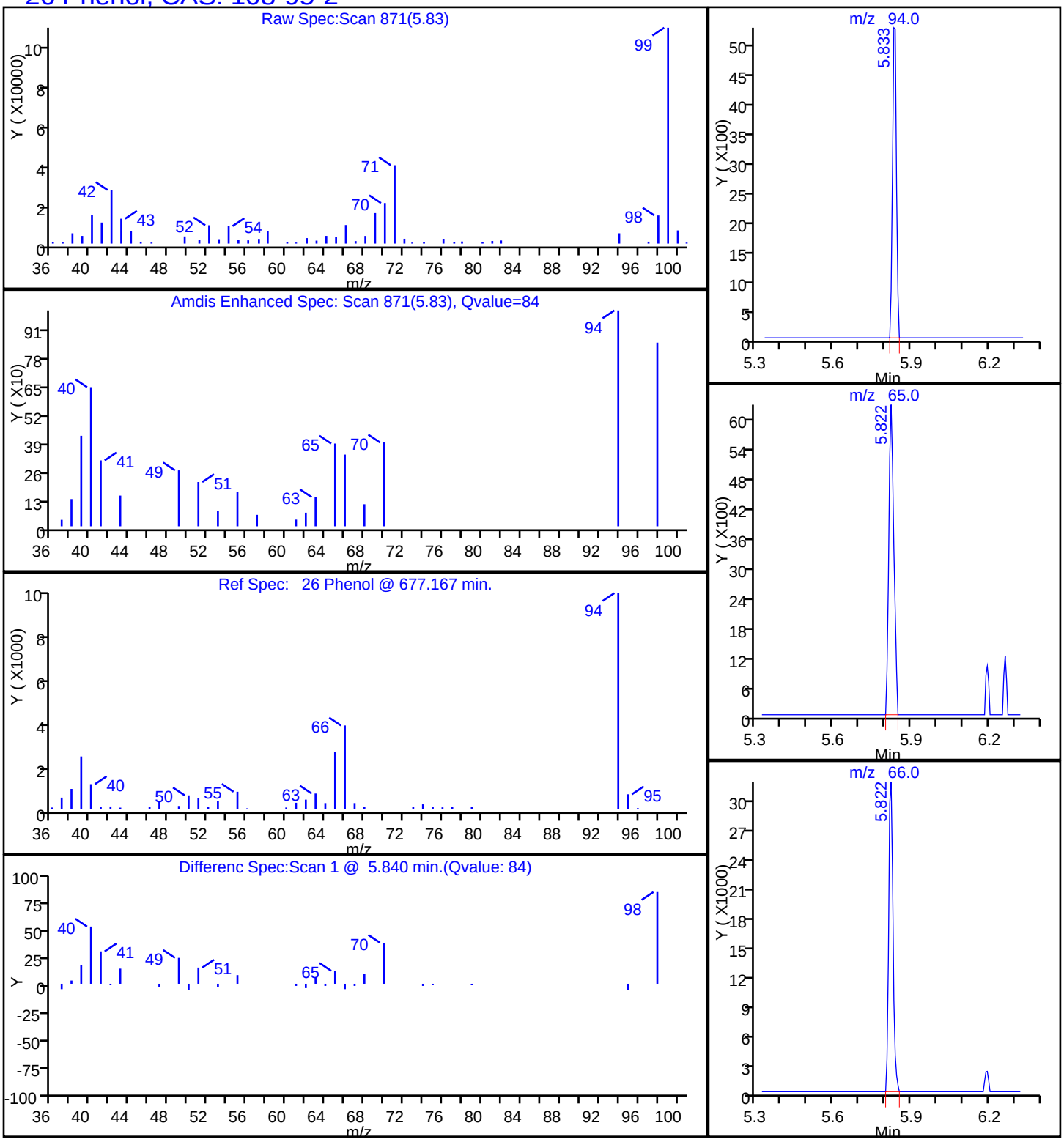


Report Date: 18-May-2015 02:49:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N26.D				
Injection Date:	15-May-2015 22:49:30	Instrument ID:	CH732		
Lims ID:	180-43702-E-4-A	Lab Sample ID:	180-43702-4		
Client ID:	FB-02				
Operator ID:	003200	ALS Bottle#:	25	Worklist Smp#:	26
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

26 Phenol, CAS: 108-95-2



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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-132436/3	D0203003.D
Level 2	IC 180-132436/4	D0203004.D
Level 3	IC 180-132436/5	D0203005.D
Level 4	ICIS 180-132436/6	D0203006.D
Level 5	IC 180-132436/7	D0203007.D
Level 6	IC 180-132436/8	D0203008.D
Level 7	IC 180-132436/9	D0203009.D
Level 8	IC 180-132436/10	D0203010.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 5		B	M1	M2								
1,4-Dioxane	0.2894 0.3232	0.3261 0.3192	0.3327 0.3142	0.3264	0.3179	Ave		0.3186			0.0100	4.1		20.0			
N-Nitrosodimethylamine	0.3996 0.4396	0.4307 0.4384	0.4292 0.4385	0.4393	0.4287	Ave		0.4305			0.0100	3.1		20.0			
Pyridine	0.6306 0.7824	0.7337 0.7815	0.7719 0.7636	0.7738	0.7696	Ave		0.7509			0.0100	6.8		20.0			
Methyl methanesulfonate	0.5847 0.5946	0.6333 0.5934	0.6501 0.5766	0.6218	0.5934	Ave		0.6060			0.0100	4.3		20.0			
Benzaldehyde	0.6297 0.7987	0.6041 0.7206	0.6312 0.6357	0.6301	0.7534	Ave		0.6754			0.0100	11.0		20.0			
Phenol	1.6566 1.5518	1.6696 1.5021	1.6880 1.4680	1.5906	1.5654	Ave		1.5865			0.8000	5.1		20.0			
Aniline	1.7678 1.7687	1.7915 1.7175	1.8542 1.6350	1.7762	1.7351	Ave		1.7557			0.0100	3.6		20.0			
Bis(2-chloroethyl)ether	1.2240 1.0827	1.1553 1.0665	1.1821 1.0456	1.1180	1.0850	Ave		1.1199			0.7000	5.5		20.0			
2-Chlorophenol	1.3213 1.3691	1.3583 1.3347	1.4311 1.3215	1.3713	1.3354	Ave		1.3553			0.8000	2.7		20.0			
n-Decane	1.7844 1.5383	1.6952 1.4335	1.7046 1.3670	1.6121	1.5819	Ave		1.5896				8.9		20.0			
1,3-Dichlorobenzene	1.5278 1.5967	1.6341 1.5442	1.6362 1.5131	1.6179	1.5562	Ave		1.5783			0.0100	3.1		20.0			
1,4-Dichlorobenzene	1.6487 1.6065	1.6240 1.6015	1.7358 1.5476	1.6058	1.5859	Ave		1.6195			0.0100	3.4		20.0			
Benzyl alcohol	0.8053 0.8464	0.8659 0.8422	0.9413 0.8086	0.8759	0.8311	Ave		0.8521			0.0100	5.1		20.0			
1,2-Dichlorobenzene	1.6482 1.5539	1.6131 1.5183	1.6459 1.4935	1.5758	1.5449	Ave		1.5742			0.0100	3.6		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Methylphenol	1.2615 1.1778	1.2521 1.1518	1.3156 1.0897	1.2215	1.1588	Ave		1.2036			0.7000	6.0		20.0			
Indene	2.3133 2.1398	2.2209 2.1085	2.3406 1.9870	2.2347	2.1387	Ave		2.1854			0.0100	5.3		20.0			
2,2'-oxybis[1-chloropropane]	2.5131 2.2628	2.5045 2.2085	2.6347 2.0194	2.4316	2.3000	Ave		2.3593			0.0100	8.4		20.0			
N-Nitrosopyrrolidine	0.5262 0.5893	0.6009 0.5880	0.6401 0.5653	0.5954	0.5859	Ave		0.5864			0.0100	5.5		20.0			
Acetophenone	2.0369 1.7219	1.9688 1.6379	2.0045 1.5364	1.8680	1.7454	Ave		1.8150			0.0100	10.0		20.0			
N-Nitrosodi-n-propylamine	0.9492 0.7944	0.9543 0.7526	0.9805 0.7006	0.8774	0.8314	Ave		0.8551			0.5000	12.0		20.0			
Methylphenol, 3 & 4	1.2641 1.1848	1.3320 1.1393	1.3945 1.0530	1.2967	1.2224	Ave		1.2358			0.6000	8.9		20.0			
Hexachloroethane	0.7385 0.6865	0.7117 0.6822	0.7467 0.6648	0.7026	0.6776	Ave		0.7013			0.3000	4.2		20.0			
Nitrobenzene	0.3271 0.3336	0.3446 0.3293	0.3443 0.3120	0.3390	0.3372	Ave		0.3334			0.2000	3.2		20.0			
Isophorone	0.5945 0.5873	0.5897 0.5783	0.6005 0.5621	0.6022	0.5816	Ave		0.5870			0.4000	2.2		20.0			
2-Nitrophenol	0.1657 0.1902	0.1840 0.1903	0.1844 0.1819	0.1896	0.1897	Ave		0.1845			0.1000	4.5		20.0			
2,4-Dimethylphenol	0.3280 0.3348	0.3513 0.3350	0.3524 0.3006	0.3537	0.3374	Ave		0.3367			0.2000	5.2		20.0			
Benzoic acid	+++++ 0.1987	0.1125 0.2033	0.1360 0.2048	0.1402	0.1689	Lin1	-0.274	0.2037			0.0100				0.9960		0.9900
Bis(2-chloroethoxy)methane	0.3834 0.3557	0.3759 0.3474	0.3766 0.3299	0.3693	0.3508	Ave		0.3611			0.3000	5.0		20.0			
2,4-Dichlorophenol	0.2934 0.2950	0.2935 0.2893	0.2980 0.2824	0.3042	0.2969	Ave		0.2941			0.2000	2.2		20.0			
1,2,4-Trichlorobenzene	0.3394 0.3347	0.3522 0.3268	0.3505 0.3188	0.3506	0.3259	Ave		0.3374			0.0100	3.8		20.0			
Naphthalene	1.0933 1.0643	1.1149 1.0677	1.1083 1.0388	1.0934	1.0774	Ave		1.0823			0.7000	2.3		20.0			
4-Chloroaniline	0.4263 0.4369	0.4351 0.4265	0.4505 0.4043	0.4433	0.4460	Ave		0.4336			0.0100	3.4		20.0			
2,6-Dichlorophenol	0.2615 0.2923	0.3132 0.2825	0.3169 0.2731	0.3025	0.2976	Ave		0.2924			0.0100	6.6		20.0			
Hexachlorobutadiene	0.2188 0.1970	0.2056 0.1955	0.2032 0.1917	0.2049	0.1985	Ave		0.2019			0.0100	4.2		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Caprolactam	0.0936 0.0987	0.1004 0.1006	0.1010 0.0967	0.0971	0.1001	Ave		0.0985			0.0100	2.6		20.0			
4-Chloro-3-methylphenol	0.3259 0.3032	0.3118 0.3010	0.3190 0.2893	0.3127	0.3048	Ave		0.3085			0.2000	3.7		20.0			
2-Methylnaphthalene	0.7854 0.7616	0.7970 0.7409	0.7819 0.7178	0.7854	0.7530	Ave		0.7654			0.4000	3.5		20.0			
1-Methylnaphthalene	0.7588 0.7095	0.7356 0.6944	0.7462 0.6677	0.7283	0.7014	Ave		0.7177			0.0100	4.2		20.0			
Hexachlorocyclopentadiene	0.2878 0.3872	0.3363 0.3718	0.3406 0.3157	0.3633	0.3814	Ave		0.3480			0.0500	9.9		20.0			
1,2,4,5-Tetrachlorobenzene	0.5271 0.5157	0.5490 0.4843	0.5616 0.4793	0.5356	0.5187	Ave		0.5214			0.0100	5.5		20.0			
2,4,6-Trichlorophenol	0.3384 0.3625	0.3491 0.3512	0.3640 0.3551	0.3670	0.3587	Ave		0.3558			0.2000	2.6		20.0			
2,4,5-Trichlorophenol	0.3632 0.3897	0.3616 0.3754	0.3889 0.3774	0.3794	0.3834	Ave		0.3774			0.2000	2.8		20.0			
1,1'-Biphenyl	1.4675 1.5500	1.5477 1.4658	1.5307 1.4591	1.5290	1.4933	Ave		1.5054			0.0100	2.5		20.0			
2-Chloronaphthalene	1.2012 1.2780	1.2764 1.1651	1.2437 1.1616	1.2325	1.1984	Ave		1.2196			0.8000	3.7		20.0			
2-Nitroaniline	0.3160 0.3609	0.3422 0.3402	0.3641 0.3482	0.3507	0.3502	Ave		0.3466			0.0100	4.3		20.0			
Dimethyl phthalate	1.2918 1.2997	1.2696 1.2239	1.3080 1.2415	1.2660	1.2604	Ave		1.2701			0.0100	2.3		20.0			
1,3-Dinitrobenzene	0.1398 0.2093	0.1828 0.2040	0.1949 0.1996	0.1986	0.2017	Ave		0.1913			0.0100	12.0		20.0			
2,6-Dinitrotoluene	0.2531 0.2910	0.2768 0.2735	0.2901 0.2792	0.2856	0.2829	Ave		0.2790			0.2000	4.4		20.0			
Acenaphthylene	1.9319 1.9727	1.8890 1.9400	1.9822 1.9233	1.9235	1.9095	Ave		1.9340			0.9000	1.6		20.0			
3-Nitroaniline	0.3033 0.3545	0.3298 0.3468	0.3443 0.3405	0.3513	0.3466	Ave		0.3396			0.0100	4.8		20.0			
2,4-Dinitrophenol	0.0832 0.1969	0.1126 0.1883	0.1416 0.1859	0.1702	0.1865	Lin1	-0.142	0.1889			0.0100				0.9980		0.9900
Acenaphthene	1.2341 1.1644	1.2375 1.0882	1.2536 1.0424	1.2271	1.1994	Ave		1.1808			0.9000	6.5		20.0			
4-Nitrophenol	0.1449 0.2049	0.1773 0.1990	0.1858 0.1985	0.1926	0.2002	Ave		0.1879			0.0100	10.0		20.0			
2,4-Dinitrotoluene	0.3258 0.3820	0.3710 0.3605	0.3746 0.3591	0.3785	0.3817	Ave		0.3667			0.2000	5.1		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibenzofuran	1.7039 1.6974	1.7236 1.6717	1.7324 1.6535	1.6806	1.6861	Ave		1.6936			0.8000	1.6		20.0			
2,3,5,6-Tetrachlorophenol	0.2784 0.3522	0.3231 0.3411	0.3288 0.3332	0.3290	0.3409	Ave		0.3283			0.0100	6.7		20.0			
2,3,4,6-Tetrachlorophenol	0.2692 0.3331	0.3234 0.3255	0.3364 0.3231	0.3274	0.3351	Ave		0.3217			0.0100	6.8		20.0			
2-Naphthylamine	1.1143 1.2587	1.2501 1.2075	1.2670 1.1115	1.2281	1.2187	Ave		1.2070			0.0100	5.1		20.0			
Diethyl phthalate	1.3162 1.2963	1.3893 1.2225	1.3466 1.1760	1.3204	1.3148	Ave		1.2978			0.0100	5.2		20.0			
Hexadecane	0.6523 0.5660	0.6318 0.5102	0.6572 0.4522	0.6386	0.6137	Ave		0.5903				13.0		20.0			
4-Chlorophenyl phenyl ether	0.6117 0.6273	0.6466 0.6042	0.6486 0.5941	0.6234	0.6183	Ave		0.6218			0.4000	3.1		20.0			
4-Nitroaniline	0.2857 0.3410	0.3374 0.3366	0.3445 0.3302	0.3513	0.3549	Ave		0.3352			0.0100	6.4		20.0			
Fluorene	1.3053 1.3254	1.3617 1.2560	1.3725 1.2546	1.3428	1.3245	Ave		1.3179			0.9000	3.3		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1432	0.0985 0.1462	0.1142 0.1453	0.1268	0.1361	Ave		0.1300			0.0100	14.0		20.0			
N-Nitrosodiphenylamine	0.5815 0.5842	0.5335 0.5775	0.5631 0.5899	0.5591	0.5578	Ave		0.5683			0.0100	3.3		20.0			
1,2-Diphenylhydrazine(as Azobenzene)	0.7667 0.8428	0.8041 0.8121	0.8471 0.8091	0.8166	0.8146	Ave		0.8141			0.0100	3.0		20.0			
4-Bromophenyl phenyl ether	0.2046 0.2116	0.1971 0.2114	0.2124 0.2103	0.2105	0.2134	Ave		0.2089			0.1000	2.6		20.0			
Hexachlorobenzene	0.1992 0.2131	0.2049 0.2119	0.2145 0.2089	0.2091	0.2086	Ave		0.2088			0.1000	2.3		20.0			
Atrazine	0.1508 0.1701	0.1598 0.1692	0.1695 0.1557	0.1710	0.1740	Ave		0.1650			0.0100	5.1		20.0			
Pentachlorophenol	0.1520 0.1572	0.1371 0.1550	0.1337 0.1472	0.1463	0.1491	Ave		0.1472			0.0500	5.6		20.0			
n-Octadecane	2.9279 2.7791	2.9973 2.6531	3.2672 2.3073	3.0215	2.8258	Ave		2.8474				10.0		20.0			
Phenanthrene	1.2333 1.2156	1.1493 1.2158	1.2014 1.2428	1.1714	1.1853	Ave		1.2019			0.7000	2.6		20.0			
Anthracene	1.1639 1.2594	1.1596 1.2828	1.2305 1.2914	1.2094	1.2361	Ave		1.2292			0.7000	4.0		20.0			
Carbazole	0.9973 1.0904	1.0318 1.1270	1.0917 1.1210	1.0590	1.0898	Ave		1.0760			0.0100	4.1		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Di-n-butyl phthalate	1.2435 1.4028	1.2478 1.4108	1.2963 1.4534	1.3362	1.3749	Ave		1.3457			0.0100	5.8		20.0			
Fluoranthene	1.2269 1.2465	1.1395 1.2579	1.1842 1.2493	1.1722	1.2253	Ave		1.2127			0.6000	3.5		20.0			
Benzidine	+++++ 0.6087	0.3381 0.5884	0.3417 +++++	0.4319	0.5499	Lin1	-0.796	0.6014			0.0100				0.9950		0.9900
Pyrene	1.2316 1.3821	1.3123 1.3377	1.3222 1.3790	1.3011	1.2959	Ave		1.3202			0.6000	3.7		20.0			
Butyl benzyl phthalate	0.5641 0.6167	0.5570 0.6045	0.5764 0.6090	0.5730	0.5894	Ave		0.5863			0.0100	3.8		20.0			
3,3'-Dichlorobenzidine	0.3540 0.4211	0.3483 0.4265	0.3548 0.4206	0.3825	0.3790	Ave		0.3859			0.0100	8.5		20.0			
Bis(2-ethylhexyl) phthalate	0.7021 0.8761	0.7843 0.8596	0.7648 0.8725	0.8242	0.8129	Ave		0.8121			0.0100	7.4		20.0			
Benzo[a]anthracene	1.1208 1.1714	1.1533 1.1649	1.1486 1.1975	1.1557	1.1481	Ave		1.1575			0.8000	1.9		20.0			
Chrysene	1.0300 1.1228	1.0963 1.1040	1.0801 1.1217	1.0966	1.0755	Ave		1.0909			0.7000	2.7		20.0			
Di-n-octyl phthalate	1.2730 1.7268	1.3219 1.7538	1.4451 1.7590	1.5535	1.6017	Ave		1.5544			0.0100	12.0		20.0			
7,12-Dimethylbenz(a)anthracene	0.4916 0.5923	0.5158 0.5834	0.5403 0.5803	0.5553	0.5564	Ave		0.5519			0.0100	6.3		20.0			
Benzo[b]fluoranthene	1.1665 1.3564	1.2427 1.3265	1.3292 1.3265	1.2863	1.3392	Ave		1.2967			0.7000	4.9		20.0			
Benzo[k]fluoranthene	1.1740 1.3060	1.2282 1.3366	1.2104 1.3323	1.2992	1.2796	Ave		1.2708			0.7000	4.7		20.0			
Benzo[e]pyrene	1.0767 1.2070	1.1193 1.2216	1.1574 1.2121	1.1816	1.1791	Ave		1.1694			0.0100	4.3		20.0			
Benzo[a]pyrene	1.0264 1.2368	1.1216 1.2146	1.1478 1.2456	1.1816	1.1717	Ave		1.1682			0.7000	6.1		20.0			
Indeno[1,2,3-cd]pyrene	1.0328 1.3270	1.1037 1.3836	1.1196 1.4315	1.2105	1.2218	Ave		1.2288			0.5000	12.0		20.0			
Dibenz(a,h)anthracene	0.8585 1.1035	0.9322 1.1407	0.9486 1.1741	1.0061	1.0090	Ave		1.0216			0.4000	11.0		20.0			
Benzo[g,h,i]perylene	0.9029 1.1236	0.9484 1.1747	0.9727 1.2283	1.0095	1.0273	Ave		1.0484			0.5000	11.0		20.0			
2-Fluorophenol (Surr)	0.9661 1.0450	1.0460 1.0420	1.0861 1.0374	1.0544	1.0213	Ave		1.0373				3.3		20.0			
Phenol-d5 (Surr)	1.2867 1.4119	1.3965 1.3682	1.5097 1.3500	1.4614	1.3893	Ave		1.3967				4.9		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Nitrobenzene-d5 (Surr)	0.3197 0.3403	0.3409 0.3398	0.3393 0.3237	0.3449	0.3373	Ave		0.3358				2.7		20.0			
2-Fluorobiphenyl	1.2937 1.3368	1.3465 1.2809	1.3527 1.2654	1.3156	1.3177	Ave		1.3136				2.4		20.0			
2,4,6-Tribromophenol (Surr)	0.0707 0.0958	0.0803 0.0956	0.0889 0.0947	0.0887	0.0888	Ave		0.0879			0.0100	9.8		20.0			
Terphenyl-d14 (Surr)	0.8113 0.8873	0.8676 0.8789	0.8868 0.8883	0.8805	0.8663	Ave		0.8709				2.9		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-132436/3	D0203003.D
Level 2	IC 180-132436/4	D0203004.D
Level 3	IC 180-132436/5	D0203005.D
Level 4	ICIS 180-132436/6	D0203006.D
Level 5	IC 180-132436/7	D0203007.D
Level 6	IC 180-132436/8	D0203008.D
Level 7	IC 180-132436/9	D0203009.D
Level 8	IC 180-132436/10	D0203010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCB	Ave	1934 209470	11737 302556	23830 408930	55464	109242	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodimethylamine	DCB	Ave	2670 284868	15503 415506	30743 570621	74663	147321	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pyridine	DCB	Ave	4214 507054	26410 740621	55290 993662	131501	264484	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methyl methanesulfonate	DCB	Ave	3907 385315	22793 562394	46560 750302	105679	203934	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzaldehyde	DCB	Ave	4208 517593	21743 682953	45208 827212	107077	258918	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol	DCB	Ave	11070 1005636	60095 1423572	120902 1910430	270314	537943	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Aniline	DCB	Ave	11813 1146158	64483 1627756	132805 2127696	301857	596247	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethyl)ether	DCB	Ave	8179 701627	41584 1010724	84668 1360669	190003	372868	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chlorophenol	DCB	Ave	8829 887214	48891 1264905	102500 1719757	233051	458905	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
n-Decane	DCB	Ave	11924 996855	61014 1358551	122092 1778933	273969	543602	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	10209 1034697	58818 1463480	117189 1969048	274959	534786	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	11017 1041084	58452 1517829	124324 2013954	272903	544982	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzyl alcohol	DCB	Ave	5381 548480	31167 798172	67422 1052255	148867	285603	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	11014 1006967	58062 1438910	117889 1943533	267807	530899	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Methylphenol	DCB	Ave	8430 763283	45068 1091611	94232 1418095	207591	398202	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Indene	DCB	Ave	15458 1386687	79937 1998319	167642 2585818	379789	734967	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	16793 1466380	90145 2093118	188707 2627938	413246	790384	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosopyrrolidine	DCB	Ave	3516 381909	21630 557274	45845 735704	101195	201336	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acetophenone	DCB	Ave	13611 1115856	70865 1552275	143572 1999395	317474	599792	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodi-n-propylamine	DCB	Ave	6343 514816	34348 713290	70224 911733	149121	285723	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methylphenol, 3 & 4	DCB	Ave	8447 767791	47943 1079768	99882 1370355	220366	420058	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachloroethane	DCB	Ave	4935 444909	25617 646511	53481 865068	119409	232849	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene	NPT	Ave	9966 927641	55637 1350399	114851 1755924	251361	498871	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Isophorone	NPT	Ave	18114 1633037	95220 2371427	200303 3163519	446570	860436	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitrophenol	NPT	Ave	5049 529004	29702 780171	61516 1023420	140596	280608	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dimethylphenol	NPT	Ave	9995 931124	56716 1373726	117563 1691801	262290	499190	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzoic acid	NPT	Lin1	+++++ 552644	18161 833727	45351 1152352	103970	249876	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethoxy)methane	NPT	Ave	11681 989031	60701 1424492	125607 1856791	273809	519031	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dichlorophenol	NPT	Ave	8940 820358	47384 1186303	99409 1589300	225553	439198	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4-Trichlorobenzene	NPT	Ave	10340 930596	56870 1339792	116908 1794324	259967	482199	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Naphthalene	NPT	Ave	33313 2959547	180017 4378054	369682 5845912	810769	1593857	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloroaniline	NPT	Ave	12989 1214856	70259 1748750	150282 2275054	328724	659764	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dichlorophenol	NPT	Ave	7969 812683	50566 1158271	105695 1537038	224288	440269	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobutadiene	NPT	Ave	6668 547750	33197 801613	67792 1078670	151937	293629	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Caprolactam	NPT	Ave	2851 274556	16212 412304	33697 544085	72011	148052	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloro-3-methylphenol	NPT	Ave	9929 843095	50346 1234208	106402 1628392	231893	450969	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Methylnaphthalene	NPT	Ave	23929 2117761	128685 3038002	260830 4039867	582381	1113976	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1-Methylnaphthalene	NPT	Ave	23121 1972940	118777 2847445	248893 3757680	540054	1037675	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorocyclopentadiene	ANT	Ave	5682 644566	34246 941368	71542 1063917	170705	347500	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	10408 858550	55917 1226308	117976 1614990	251697	472692	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Trichlorophenol	ANT	Ave	6681 603497	35559 889199	76466 1196597	172469	326888	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,5-Trichlorophenol	ANT	Ave	7171 648683	36826 950450	81693 1271911	178301	349406	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,1'-Biphenyl	ANT	Ave	28976 2580419	157628 3711661	321551 4916975	718467	1360765	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chloronaphthalene	ANT	Ave	23718 2127629	129992 2950139	261278 3914388	579154	1091984	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitroaniline	ANT	Ave	6240 600873	34853 861359	76492 1173309	164804	319101	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dimethyl phthalate	ANT	Ave	25507 2163658	129303 3099106	274773 4183619	594888	1148510	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dinitrobenzene	ANT	Ave	2761 348418	18618 516502	40950 672638	93300	183786	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dinitrotoluene	ANT	Ave	4998 484496	28186 692489	60939 940800	134217	257767	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthylene	ANT	Ave	38147 3284115	192381 4912276	416410 6481156	903822	1740013	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3-Nitroaniline	ANT	Ave	5989 590172	33591 878098	72336 1147441	165063	315804	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dinitrophenol	ANT	Lin1	3286 655440	22936 953848	59478 1253184	159961	339911	0.800 80.0	4.00 120	8.00 160	20.0	40.0
Acenaphthene	ANT	Ave	24369 1938543	126036 2755493	263354 3512775	576591	1092870	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Nitrophenol	ANT	Ave	5723 682381	36110 1007845	78078 1337557	181010	364939	0.800 80.0	4.00 120	8.00 160	20.0	40.0
2,4-Dinitrotoluene	ANT	Ave	6434 635934	37788 912905	78701 1210224	177872	347851	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenzofuran	ANT	Ave	33645 2825768	175543 4232923	363941 5571795	789696	1536391	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,5,6-Tetrachlorophenol	ANT	Ave	5498 586262	32909 863773	69064 1122675	154617	310668	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	5315 554584	32937 824302	70676 1088782	153842	305329	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Naphthylamine	ANT	Ave	22002 2095491	127319 3057555	266173 3745510	577092	1110540	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Diethyl phthalate	ANT	Ave	25990 2158069	141494 3095548	282894 3962742	620434	1198085	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexadecane	NPT	Ave	19875 1573793	102020 2091830	219225 2544862	473542	907979	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chlorophenyl phenyl ether	ANT	Ave	12078 1044305	65852 1529802	136257 2002066	292933	563422	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Nitroaniline	ANT	Ave	5641 567688	34362 852366	72364 1112682	165071	323357	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluorene	ANT	Ave	25774 2206480	138685 3180401	288323 4227850	630958	1206930	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 811928	36409 1229972	84343 1636050	207551	426277	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
N-Nitrosodiphenylamine	PHN	Ave	19976 1656272	98631 2429181	207962 3320829	457506	873779	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	26337 2389339	148666 3415954	312827 4555078	668173	1276008	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Bromophenyl phenyl ether	PHN	Ave	7027 599814	36435 889331	78447 1183915	172260	334279	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobenzene	PHN	Ave	6843 604183	37887 891428	79204 1175832	171081	326768	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Atrazine	PHN	Ave	5181 482114	29538 711536	62578 876625	139931	272565	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pentachlorophenol	PHN	Ave	10440 891131	50690 1304271	98731 1657954	239474	467256	0.800 80.0	4.00 120	8.00 160	20.0	40.0
n-Octadecane	DCB	Ave	19565 1800945	107882 2514404	234012 3002594	513509	971090	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenanthrene	PHN	Ave	42368 3446256	212492 5114269	443670 6996513	958538	1856746	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Anthracene	PHN	Ave	39984 3570591	214399 5395998	454435 7270383	989626	1936292	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Carbazole	PHN	Ave	34259 3091224	190765 4740553	403180 6310858	866503	1707133	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-butyl phthalate	PHN	Ave	42717 3976938	230689 5934589	478707 8182573	1093325	2153696	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluoranthene	PHN	Ave	42149 3533786	210680 5291453	437332 7033592	959196	1919281	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzidine	CRY	Lin1	+++++ 1638838	56969 2399353	115541 +++++	327820	826654	+++++ 40.0	2.00 60.0	4.00 +++++	10.0	20.0
Pyrene	CRY	Ave	40844 3720835	221103 5454551	447116 7357760	987653	1948062	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Butyl benzyl phthalate	CRY	Ave	18708 1660263	93839 2464856	194904 3249211	434962	886116	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3,3'-Dichlorobenzidine	CRY	Ave	11741 1133566	58677 1739062	119990 2244278	290343	569808	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	23285 2358686	132135 3504948	258611 4655604	625648	1221960	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]anthracene	CRY	Ave	37171 3153612	194307 4749712	388390 6389372	877303	1725874	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Chrysene	CRY	Ave	34157 3022852	184718 4501660	365240 5985101	832413	1616774	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-octyl phthalate	PRY	Ave	34973 3924029	185265 5987889	382318 8321767	967260	1974782	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
7,12-Dimethylbenz(a)anthracene	PRY	Ave	13505 1345948	72293 1992000	142947 2745346	345745	686009	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	32046 3082246	174164 4528904	351632 6275756	800926	1651159	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	32254 2967704	172135 4563372	320222 6303252	808910	1577594	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[e]pyrene	PRY	Ave	29579 2742921	156862 4171014	306198 5734616	735708	1453734	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]pyrene	PRY	Ave	28197 2810546	157185 4146954	303646 5893073	735703	1444557	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	28373 3015474	154678 4723890	296192 6772582	753684	1506352	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	23584 2507561	130639 3894722	250943 5554542	626416	1244003	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	24806 2553190	132922 4010862	257341 5811207	628584	1266587	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorophenol (Surr)	DCB	Ave	6456 677215	37650 987546	77789 1350034	179189	350979	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol-d5 (Surr)	DCB	Ave	8598 914976	50263 1296709	108130 1756748	248370	477417	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene-d5 (Surr)	NPT	Ave	9741 946397	55043 1393487	113169 1821929	255780	498999	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorobiphenyl	ANT	Ave	25545 2225410	137132 3243372	284174 4264201	618183	1200667	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	2430 271556	14848 402216	32838 533212	72581	139101	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Terphenyl-d14 (Surr)	CRY	Ave	26904 2388667	146177 3583724	299886 4739579	668366	1302313	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 132436

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2015 05:53 Calibration End Date: 02/03/2015 09:00 Calibration ID: 21642

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Laboratories
Initial Calibration %Drift Report

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m
Instrument: CH732 Lims Location: 180
Lock State: Unlocked Cpnd Order: Compound Type
Integrator: RTE Last Modified: 04-Feb-2015 06:46:57
No.Compounds:209

Initial Calibration Batches

Ical Batch: \\PITCHROM\ChromData\CH732\20150203-5518.b
Inj Date : 03-Feb-2015 05:53:30, Sublist: chrom-BNA_CH732*sub4

Limit Group: BNA 8270C ICAL

Detector 1: MS SCAN

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
* 1 1,4-Dichlorobenzene-d4	133646	143973	143248	135960	137459	129608	126365	130134
* 2 Naphthalene-d8	609382	645863	667133	593216	591759	556151	546713	562776
* 3 Acenaphthene-d10	394913	407379	420149	375917	364487	332955	337620	336979
* 4 Phenanthrene-d10	687055	739534	738596	654603	626567	567011	560871	562981
* 5 Chrysene-d12	663270	673939	676299	607262	601321	538430	543659	533575
* 6 Perylene-d12	549453	560589	529106	498112	493170	454484	455236	473099
$ 7 2-Fluorophenol	-6.9	0.8	4.7	1.6	-1.5	0.7	0.5	0.0
$ 8 Phenol-d5	-7.9	0.0	8.1	4.6	-0.5	1.1	-2.0	-3.3
$ 9 Nitrobenzene-d5	-4.8	1.5	1.0	2.7	0.5	1.4	1.2	-3.6
$ 10 2-Fluorobiphenyl	-1.5	2.5	3.0	0.1	0.3	1.8	-2.5	-3.7
$ 11 2,4,6-Tribromophenol	-19.6	-8.7	1.1	0.9	1.0	8.9	8.7	7.7
$ 12 Terphenyl-d14	-6.8	-0.4	1.8	1.1	-0.5	1.9	0.9	2.0
13 1,4-Dioxane	-9.2	2.3	4.4	2.4	-0.2	1.4	0.2	-1.4
14 N-Nitrosodimethylamine	-7.2	0.1	-0.3	2.0	-0.4	2.1	1.8	1.9
15 Pyridine	-16.0	-2.3	2.8	3.0	2.5	4.2	4.1	1.7
21 Methyl methanesulfonat	-3.5	4.5	7.3	2.6	-2.1	-1.9	-2.1	-4.9
25 Benzaldehyde	-6.8	-10.6	-6.6	-6.7	11.5	18.3	6.7	-5.9
26 Phenol	4.4	5.2	6.4	0.3	-1.3	-2.2	-5.3	-7.5
27 Aniline	0.7	2.0	5.6	1.2	-1.2	0.7	-2.2	-6.9
29 Bis(2-chloroethyl)ethe	9.3	3.2	5.6	-0.2	-3.1	-3.3	-4.8	-6.6
30 2-Chlorophenol	-2.5	0.2	5.6	1.2	-1.5	1.0	-1.5	-2.5
31 n-Decane	12.3	6.6	7.2	1.4	-0.5	-3.2	-9.8	-14.0
32 1,3-Dichlorobenzene	-3.2	3.5	3.7	2.5	-1.4	1.2	-2.2	-4.1
33 1,4-Dichlorobenzene	1.8	0.3	7.2	-0.8	-2.1	-0.8	-1.1	-4.4
34 Benzyl alcohol	-5.5	1.6	10.5	2.8	-2.5	-0.7	-1.2	-5.1
35 1,2-Dichlorobenzene	4.7	2.5	4.6	0.1	-1.9	-1.3	-3.6	-5.1
36 2-Methylphenol	4.8	4.0	9.3	1.5	-3.7	-2.1	-4.3	-9.5
37 Indene	5.8	1.6	7.1	2.3	-2.1	-2.1	-3.5	-9.1
38 2,2'-oxybis[1-chloropr	6.5	6.2	11.7	3.1	-2.5	-4.1	-6.4	-14.4
39 N-Nitrosopyrrolidine	-10.3	2.5	9.2	1.5	-0.1	0.5	0.3	-3.6
41 N-Nitrosodi-n-propylam	11.0	11.6	14.7	2.6	-2.8	-7.1	-12.0	-18.1
40 Acetophenone	12.2	8.5	10.4	2.9	-3.8	-5.1	-9.8	-15.3
42 4-Methylphenol	2.3	7.8	12.8	4.9	-1.1	-4.1	-7.8	-14.8
45 Hexachloroethane	5.3	1.5	6.5	0.2	-3.4	-2.1	-2.7	-5.2
46 Nitrobenzene	-1.9	3.4	3.3	1.7	1.1	0.1	-1.2	-6.4
48 Isophorone	1.3	0.5	2.3	2.6	-0.9	0.0	-1.5	-4.2
49 2-Nitrophenol	-10.2	-0.3	0.0	2.8	2.8	3.1	3.1	-1.4
50 2,4-Dimethylphenol	-2.6	4.3	4.7	5.1	0.2	-0.5	-0.5	-10.7
52 Benzoic acid	Disabled	22.5	0.4	-17.7	-10.4	0.9	2.1	2.2
53 Bis(2-chloroethoxy)met	6.2	4.1	4.3	2.3	-2.8	-1.5	-3.8	-8.6
54 2,4-Dichlorophenol	-0.2	-0.2	1.3	3.4	0.9	0.3	-1.6	-4.0
56 1,2,4-Trichlorobenzene	0.6	4.4	3.9	3.9	-3.4	-0.8	-3.1	-5.5
58 Naphthalene	1.0	3.0	2.4	1.0	-0.5	-1.7	-1.3	-4.0

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
59 4-Chloroaniline	-1.7	0.4	3.9	2.2	2.9	0.8	-1.6	-6.8
60 2,6-Dichlorophenol	-10.6	7.1	8.4	3.4	1.8	-0.1	-3.4	-6.6
62 Hexachlorobutadiene	8.4	1.8	0.7	1.5	-1.7	-2.4	-3.2	-5.1
64 Caprolactam	-5.0	1.9	2.5	-1.4	1.6	0.2	2.1	-1.9
67 4-Chloro-3-methylpheno	5.6	1.1	3.4	1.4	-1.2	-1.7	-2.4	-6.2
69 2-Methylnaphthalene	2.6	4.1	2.2	2.6	-1.6	-0.5	-3.2	-6.2
71 1-Methylnaphthalene	5.7	2.5	4.0	1.5	-2.3	-1.1	-3.2	-7.0
72 Hexachlorocyclopentadi	-17.3	-3.4	-2.1	4.4	9.6	11.3	6.8	-9.3
73 1,2,4,5-Tetrachloroben	1.1	5.3	7.7	2.7	-0.5	-1.1	-7.1	-8.1
74 2,4,6-Trichlorophenol	-4.9	-1.9	2.3	3.2	0.8	1.9	-1.3	-0.2
75 2,4,5-Trichlorophenol	-3.8	-4.2	3.0	0.5	1.6	3.3	-0.5	0.0
76 1,1'-Biphenyl	-2.5	2.8	1.7	1.6	-0.8	3.0	-2.6	-3.1
77 2-Chloronaphthalene	-1.5	4.7	2.0	1.1	-1.7	4.8	-4.5	-4.8
79 2-Nitroaniline	-8.8	-1.3	5.1	1.2	1.0	4.1	-1.8	0.5
82 Dimethyl phthalate	1.7	0.0	3.0	-0.3	-0.8	2.3	-3.6	-2.3
83 1,3-Dinitrobenzene	-26.9	-4.5	1.9	3.8	5.4	9.4	6.6	4.3
84 2,6-Dinitrotoluene	-9.3	-0.8	4.0	2.4	1.4	4.3	-2.0	0.1
85 Acenaphthylene	-0.1	-2.3	2.5	-0.5	-1.3	2.0	0.3	-0.6
86 3-Nitroaniline	-10.7	-2.9	1.4	3.4	2.0	4.4	2.1	0.3
87 2,4-Dinitrophenol	* 38.3	-21.5	-15.6	-6.1	0.6	5.2	0.3	-1.1
88 Acenaphthene	4.5	4.8	6.2	3.9	1.6	-1.4	-7.8	-11.7
89 4-Nitrophenol	-22.9	-5.7	-1.1	2.5	6.6	9.1	5.9	5.6
91 2,4-Dinitrotoluene	-11.1	1.2	2.2	3.2	4.1	4.2	-1.7	-2.1
93 Dibenzofuran	0.6	1.8	2.3	-0.8	-0.4	0.2	-1.3	-2.4
95 2,3,5,6-Tetrachlorophe	-15.2	-1.6	0.1	0.2	3.8	7.3	3.9	1.5
96 2,3,4,6-Tetrachlorophe	-16.3	0.5	4.6	1.8	4.2	3.6	1.2	0.4
97 2-Naphthylamine	-7.7	3.6	5.0	1.8	1.0	4.3	0.0	-7.9
98 Diethyl phthalate	1.4	7.1	3.8	1.7	1.3	-0.1	-5.8	-9.4
99 Hexadecane	10.5	7.0	11.3	8.2	4.0	-4.1	-13.6	-23.4
100 4-Chlorophenyl phenyl	-1.6	4.0	4.3	0.3	-0.6	0.9	-2.8	-4.4
101 4-Nitroaniline	-14.8	0.7	2.8	4.8	5.9	1.7	0.4	-1.5
103 Fluorene	-1.0	3.3	4.1	1.9	0.5	0.6	-4.7	-4.8
104 4,6-Dinitro-2-methylph	Disabled	-24.3	-12.2	-2.5	4.6	10.1	12.4	11.7
105 N-Nitrosodiphenylamine	2.3	-6.1	-0.9	-1.6	-1.8	2.8	1.6	3.8
90 1,2-Diphenylhydrazine	-5.8	-1.2	4.0	0.3	0.1	3.5	-0.3	-0.6
110 4-Bromophenyl phenyl e	-2.1	-5.7	1.7	0.8	2.2	1.3	1.2	0.7
112 Hexachlorobenzene	-4.6	-1.8	2.7	0.1	-0.1	2.1	1.5	0.0
113 Atrazine	-8.6	-3.2	2.7	3.6	5.5	3.1	2.5	-5.6
116 Pentachlorophenol	3.2	-6.9	-9.2	-0.6	1.3	6.8	5.3	0.0
115 n-Octadecane	2.8	5.3	14.7	6.1	-0.8	-2.4	-6.8	-19.0
121 Phenanthrene	2.6	-4.4	0.0	-2.5	-1.4	1.1	1.2	3.4
122 Anthracene	-5.3	-5.7	0.1	-1.6	0.6	2.5	4.4	5.1
124 Carbazole	-7.3	-4.1	1.5	-1.6	1.3	1.3	4.7	4.2
126 Di-n-butyl phthalate	-7.6	-7.3	-3.7	-0.7	2.2	4.2	4.8	8.0
131 Fluoranthene	1.2	-6.0	-2.4	-3.3	1.0	2.8	3.7	3.0
132 Benzidine	Disabled	22.4	-10.1	-15.0	-1.9	4.5	0.0	Disabled
133 Pyrene	-6.7	-0.6	0.2	-1.4	-1.8	4.7	1.3	4.4
138 Butyl benzyl phthalate	-3.8	-5.0	-1.7	-2.3	0.5	5.2	3.1	3.9
144 3,3'-Dichlorobenzidine	-8.2	-9.7	-8.0	-0.9	-1.8	9.1	10.5	9.0
145 Bis(2-ethylhexyl) phth	-13.5	-3.4	-5.8	1.5	0.1	7.9	5.9	7.4
146 Benzo[a]anthracene	-3.2	-0.4	-0.8	-0.2	-0.8	1.2	0.6	3.5
147 Chrysene	-5.6	0.5	-1.0	0.5	-1.4	2.9	1.2	2.8
150 Di-n-octyl phthalate	-18.1	-15.0	-7.0	-0.1	3.0	11.1	12.8	13.2
151 7,12-Dimethylbenz(a)an	-10.9	-6.5	-2.1	0.6	0.8	7.3	5.7	5.1
152 Benzo[b]fluoranthene	-10.0	-4.2	2.5	-0.8	3.3	4.6	2.3	2.3
153 Benzo[k]fluoranthene	-7.6	-3.3	-4.7	2.2	0.7	2.8	5.2	4.8
219 Benzo[e]pyrene	-7.9	-4.3	-1.0	1.0	0.8	3.2	4.5	3.7
154 Benzo[a]pyrene	-12.1	-4.0	-1.8	1.1	0.3	5.9	4.0	6.6
157 Indeno[1,2,3-cd]pyrene	-16.0	-10.2	-8.9	-1.5	-0.6	8.0	12.6	16.5
158 Dibenz(a,h)anthracene	-16.0	-8.8	-7.1	-1.5	-1.2	8.0	11.7	14.9

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
159 Benzo[g,h,i]perylene	-13.9	-9.5	-7.2	-3.7	-2.0	7.2	12.0	17.2

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203003.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Feb-2015 05:53:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0005518-003
Misc. Info.: IC
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 04-Feb-2015 06:40:52 Calib Date: 03-Feb-2015 09:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: piccolinov Date: 04-Feb-2015 06:38:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.185	6.185	0.000	97	133646	8.00	8.00	
* 2 Naphthalene-d8	136	7.484	7.484	0.000	100	609382	8.00	8.00	
* 3 Acenaphthene-d10	164	9.209	9.209	0.000	92	394913	8.00	8.00	
* 4 Phenanthrene-d10	188	10.668	10.668	0.000	97	687055	8.00	8.00	
* 5 Chrysene-d12	240	14.471	14.471	0.000	97	663270	8.00	8.00	
* 6 Perylene-d12	264	17.388	17.388	0.000	96	549453	8.00	8.00	
$ 7 2-Fluorophenol	112	4.716	4.716	0.000	90	6456	0.4000	0.3726	
$ 8 Phenol-d5	99	5.801	5.801	0.000	90	8598	0.4000	0.3685	
$ 9 Nitrobenzene-d5	82	6.752	6.752	0.000	96	9741	0.4000	0.3809	
$ 10 2-Fluorobiphenyl	172	8.531	8.531	0.000	99	25545	0.4000	0.3939	
$ 11 2,4,6-Tribromophenol	330	9.973	9.973	0.000	83	2430	0.4000	0.3217	
$ 12 Terphenyl-d14	244	12.628	12.628	0.000	98	26904	0.4000	0.3726	
13 1,4-Dioxane	88	1.548	1.548	0.000	1	1934	0.4000	0.3633	M
14 N-Nitrosodimethylamine	74	2.141	2.141	0.000	71	2670	0.4000	0.3713	M
15 Pyridine	79	2.243	2.243	0.000	93	4214	0.4000	0.3359	M
21 Methyl methanesulfonate	80	4.471	4.471	0.000	86	3907	0.4000	0.3859	
25 Benzaldehyde	77	5.710	5.710	0.000	89	4208	0.4000	0.3729	
26 Phenol	94	5.812	5.812	0.000	97	11070	0.4000	0.4177	
27 Aniline	93	5.833	5.833	0.000	97	11813	0.4000	0.4027	
29 Bis(2-chloroethyl)ether	93	5.902	5.902	0.000	90	8179	0.4000	0.4372	
30 2-Chlorophenol	128	5.961	5.961	0.000	97	8829	0.4000	0.3899	
31 n-Decane	43	6.036	6.036	0.000	92	11924	0.4000	0.4490	
32 1,3-Dichlorobenzene	146	6.127	6.127	0.000	95	10209	0.4000	0.3872	
33 1,4-Dichlorobenzene	146	6.207	6.207	0.000	91	11017	0.4000	0.4072	
34 Benzyl alcohol	108	6.324	6.324	0.000	88	5381	0.4000	0.3780	
35 1,2-Dichlorobenzene	146	6.367	6.367	0.000	94	11014	0.4000	0.4188	
36 2-Methylphenol	108	6.442	6.442	0.000	95	8430	0.4000	0.4193	
37 Indene	116	6.458	6.458	0.000	87	15458	0.4000	0.4234	
38 2,2'-oxybis[1-chloropropan	45	6.474	6.474	0.000	91	16793	0.4000	0.4261	
39 N-Nitrosopyrrolidine	100	6.559	6.559	0.000	75	3516	0.4000	0.3589	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.597	6.597	0.000	79	13611	0.4000	0.4489	
41 N-Nitrosodi-n-propylamine	70	6.597	6.597	0.000	74	6343	0.4000	0.4440	
42 4-Methylphenol	108	6.591	6.591	0.000	60	8447	0.4000	0.4091	
45 Hexachloroethane	117	6.720	6.720	0.000	93	4935	0.4000	0.4212	
46 Nitrobenzene	77	6.768	6.768	0.000	95	9966	0.4000	0.3924	
48 Isophorone	82	7.008	7.008	0.000	98	18114	0.4000	0.4051	
49 2-Nitrophenol	139	7.094	7.094	0.000	94	5049	0.4000	0.3593	
50 2,4-Dimethylphenol	107	7.131	7.131	0.000	95	9995	0.4000	0.3897	
52 Benzoic acid	122	7.152	7.152	0.000	83	2959	0.4000	1.54	M
53 Bis(2-chloroethoxy)methane	93	7.222	7.222	0.000	97	11681	0.4000	0.4246	
54 2,4-Dichlorophenol	162	7.334	7.334	0.000	92	8940	0.4000	0.3991	
56 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	94	10340	0.4000	0.4024	
58 Naphthalene	128	7.505	7.505	0.000	95	33313	0.4000	0.4041	
59 4-Chloroaniline	127	7.542	7.542	0.000	96	12989	0.4000	0.3933	
60 2,6-Dichlorophenol	162	7.558	7.558	0.000	92	7969	0.4000	0.3577	
62 Hexachlorobutadiene	225	7.628	7.628	0.000	95	6668	0.4000	0.4336	
64 Caprolactam	113	7.842	7.842	0.000	75	2851	0.4000	0.3799	
67 4-Chloro-3-methylphenol	107	8.007	8.007	0.000	95	9929	0.4000	0.4226	
69 2-Methylnaphthalene	142	8.183	8.183	0.000	91	23929	0.4000	0.4104	
71 1-Methylnaphthalene	142	8.285	8.285	0.000	94	23121	0.4000	0.4229	
72 Hexachlorocyclopentadiene	237	8.344	8.344	0.000	90	5682	0.4000	0.3308	
73 1,2,4,5-Tetrachlorobenzene	216	8.349	8.349	0.000	93	10408	0.4000	0.4044	
74 2,4,6-Trichlorophenol	196	8.451	8.451	0.000	91	6681	0.4000	0.3804	
75 2,4,5-Trichlorophenol	196	8.488	8.488	0.000	92	7171	0.4000	0.3849	
76 1,1'-Biphenyl	154	8.632	8.632	0.000	96	28976	0.4000	0.3899	
77 2-Chloronaphthalene	162	8.664	8.664	0.000	98	23718	0.4000	0.3940	
79 2-Nitroaniline	65	8.744	8.744	0.000	81	6240	0.4000	0.3647	
82 Dimethyl phthalate	163	8.905	8.905	0.000	98	25507	0.4000	0.4068	
83 1,3-Dinitrobenzene	168	8.942	8.942	0.000	82	2761	0.4000	0.2923	
84 2,6-Dinitrotoluene	165	8.969	8.969	0.000	86	4998	0.4000	0.3629	
85 Acenaphthylene	152	9.070	9.070	0.000	97	38147	0.4000	0.3996	
86 3-Nitroaniline	138	9.134	9.134	0.000	70	5989	0.4000	0.3572	
87 2,4-Dinitrophenol	184	9.241	9.241	0.000	60	3286	0.8000	1.11	
88 Acenaphthene	153	9.241	9.241	0.000	90	24369	0.4000	0.4181	
89 4-Nitrophenol	109	9.273	9.273	0.000	94	5723	0.8000	0.6170	
91 2,4-Dinitrotoluene	165	9.364	9.364	0.000	91	6434	0.4000	0.3555	
93 Dibenzofuran	168	9.401	9.401	0.000	96	33645	0.4000	0.4024	
95 2,3,5,6-Tetrachlorophenol	232	9.476	9.476	0.000	90	5498	0.4000	0.3392	
96 2,3,4,6-Tetrachlorophenol	232	9.514	9.514	0.000	74	5315	0.4000	0.3347	
97 2-Naphthylamine	143	9.546	9.546	0.000	96	22002	0.4000	0.3693	
98 Diethyl phthalate	149	9.583	9.583	0.000	97	25990	0.4000	0.4057	
99 Hexadecane	57	9.594	9.594	0.000	92	19875	0.4000	0.4420	
100 4-Chlorophenyl phenyl ethe	204	9.717	9.717	0.000	96	12078	0.4000	0.3935	
101 4-Nitroaniline	138	9.727	9.727	0.000	78	5641	0.4000	0.3409	
103 Fluorene	166	9.738	9.738	0.000	93	25774	0.4000	0.3962	
104 4,6-Dinitro-2-methylphenol	198	9.759	9.759	0.000	76	5271	0.8000	0.4720	
105 N-Nitrosodiphenylamine	169	9.829	9.829	0.000	62	19976	0.4000	0.4093	
90 1,2-Diphenylhydrazine	77	9.872	9.872	0.000	97	26337	0.4000	0.3767	
110 4-Bromophenyl phenyl ether	248	10.192	10.192	0.000	72	7027	0.4000	0.3917	
112 Hexachlorobenzene	284	10.283	10.283	0.000	89	6843	0.4000	0.3817	
113 Atrazine	200	10.315	10.315	0.000	84	5181	0.4000	0.3656	
116 Pentachlorophenol	266	10.465	10.465	0.000	86	10440	0.8000	0.8258	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.475	10.475	0.000	93	19565	0.4000	0.4113	
121 Phenanthrene	178	10.694	10.694	0.000	95	42368	0.4000	0.4105	
122 Anthracene	178	10.748	10.748	0.000	97	39984	0.4000	0.3788	
124 Carbazole	167	10.903	10.903	0.000	96	34259	0.4000	0.3707	
126 Di-n-butyl phthalate	149	11.239	11.239	0.000	100	42717	0.4000	0.3696	
57 Azobenzene	77		11.923				ND	ND	
131 Fluoranthene	202	12.121	12.121	0.000	98	42149	0.4000	0.4047	
132 Benzidine	184	12.260	12.260	0.000	98	10812	0.4000	1.54	
133 Pyrene	202	12.447	12.447	0.000	97	40844	0.4000	0.3731	
138 Butyl benzyl phthalate	149	13.387	13.387	0.000	97	18708	0.4000	0.3849	
144 3,3'-Dichlorobenzidine	252	14.375	14.375	0.000	74	11741	0.4000	0.3670	
145 Bis(2-ethylhexyl) phthalat	149	14.445	14.445	0.000	96	23285	0.4000	0.3458	
146 Benzo[a]anthracene	228	14.461	14.461	0.000	98	37171	0.4000	0.3873	
147 Chrysene	228	14.525	14.525	0.000	97	34157	0.4000	0.3777	
150 Di-n-octyl phthalate	149	15.764	15.764	0.000	66	34973	0.4000	0.3276	
151 7,12-Dimethylbenz(a)anthra	256	16.597	16.597	0.000	86	13505	0.4000	0.3563	
152 Benzo[b]fluoranthene	252	16.614	16.614	0.000	98	32046	0.4000	0.3598	
153 Benzo[k]fluoranthene	252	16.667	16.667	0.000	97	32254	0.4000	0.3695	
219 Benzo[e]pyrene	252	17.174	17.174	0.000	0	29579	0.4000	0.3683	
154 Benzo[a]pyrene	252	17.276	17.276	0.000	80	28197	0.4000	0.3514	
157 Indeno[1,2,3-cd]pyrene	276	19.792	19.792	0.000	91	28373	0.4000	0.3362	M
158 Dibenz(a,h)anthracene	278	19.851	19.851	0.000	76	23584	0.4000	0.3361	M
159 Benzo[g,h,i]perylene	276	20.497	20.497	0.000	94	24806	0.4000	0.3445	M
S 199 Total Cresols	108				0		0.8000	0.8284	
S 197 Methyl Phenols,Total	108				0		0.8000	0.8284	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD0.4i_00007 Amount Added: 1.00 Units: mL

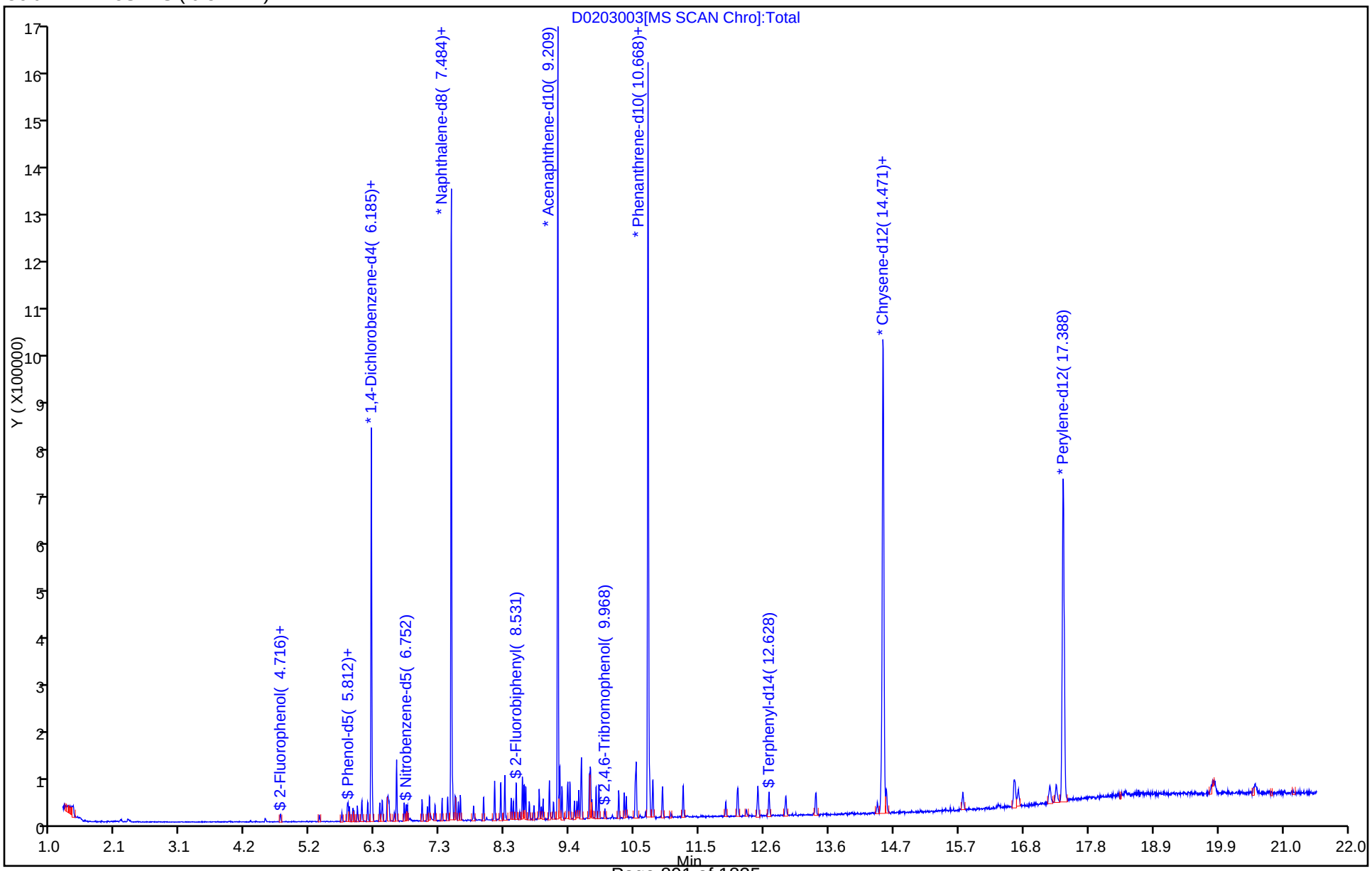
Report Date: 04-Feb-2015 06:40:53 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203003.D

Injection Date:	03-Feb-2015 05:53:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

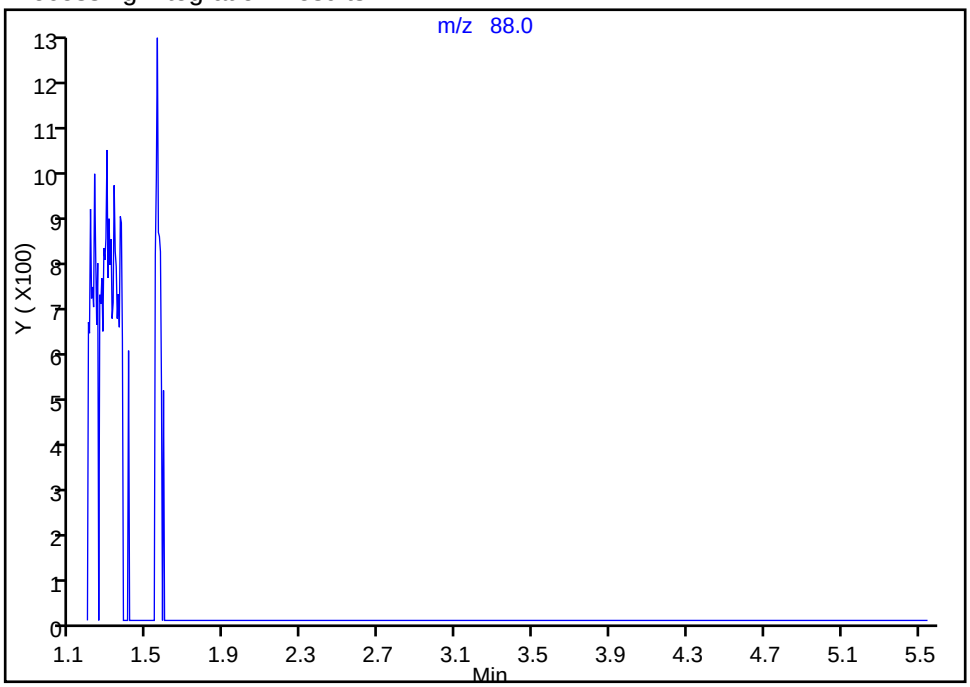
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203003.D
Injection Date: 03-Feb-2015 05:53:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

13 1,4-Dioxane, CAS: 123-91-1

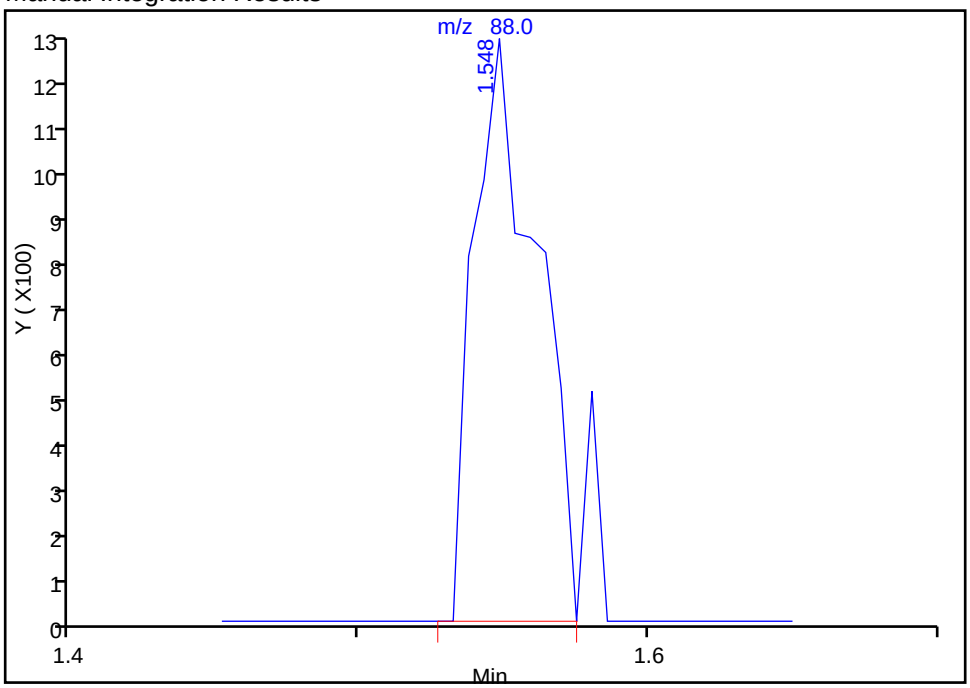
Not Detected
Expected RT: 1.55

Processing Integration Results



Manual Integration Results

RT: 1.55
Area: 1934
Amount: 0.363312
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:47:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

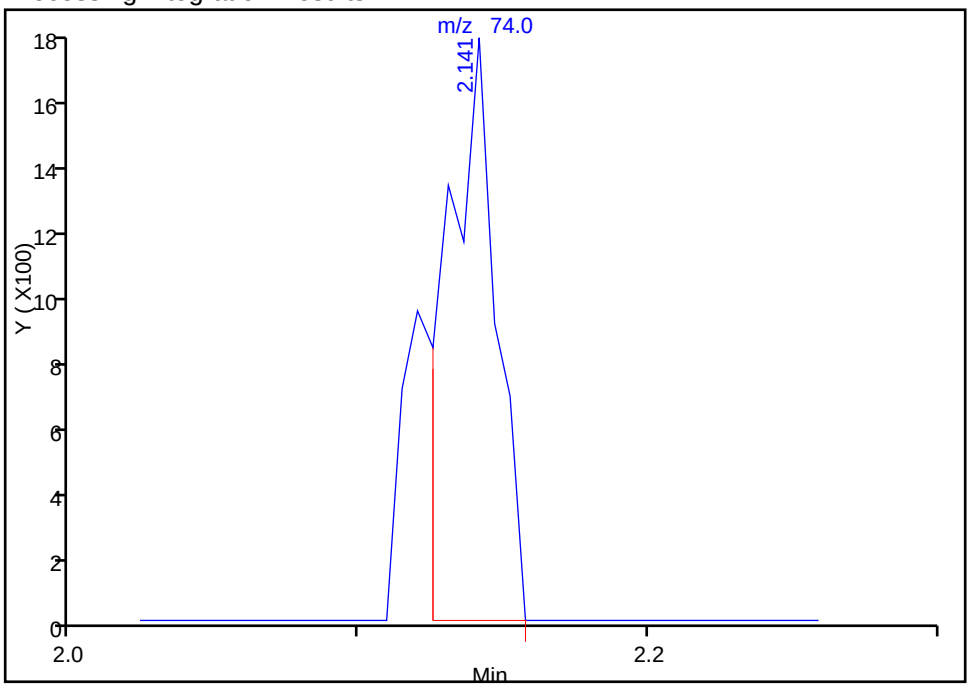
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203003.D				
Injection Date:	03-Feb-2015 05:53:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

14 N-Nitrosodimethylamine, CAS: 62-75-9

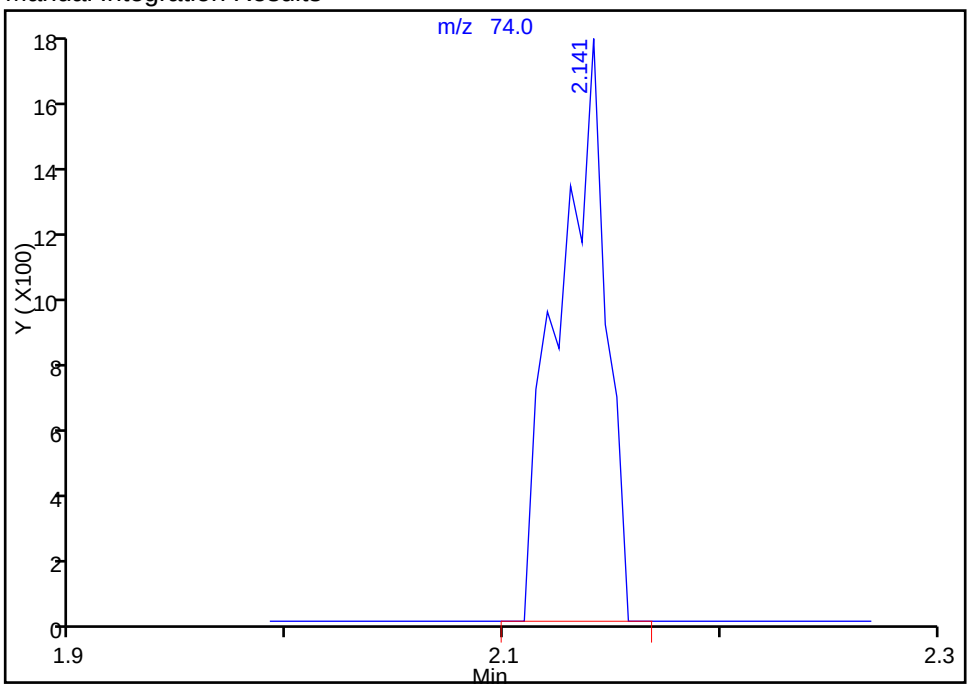
Processing Integration Results

RT: 2.14
Area: 2141
Amount: 0.309072
Amount Units: ng



Manual Integration Results

RT: 2.14
Area: 2670
Amount: 0.371252
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:47:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

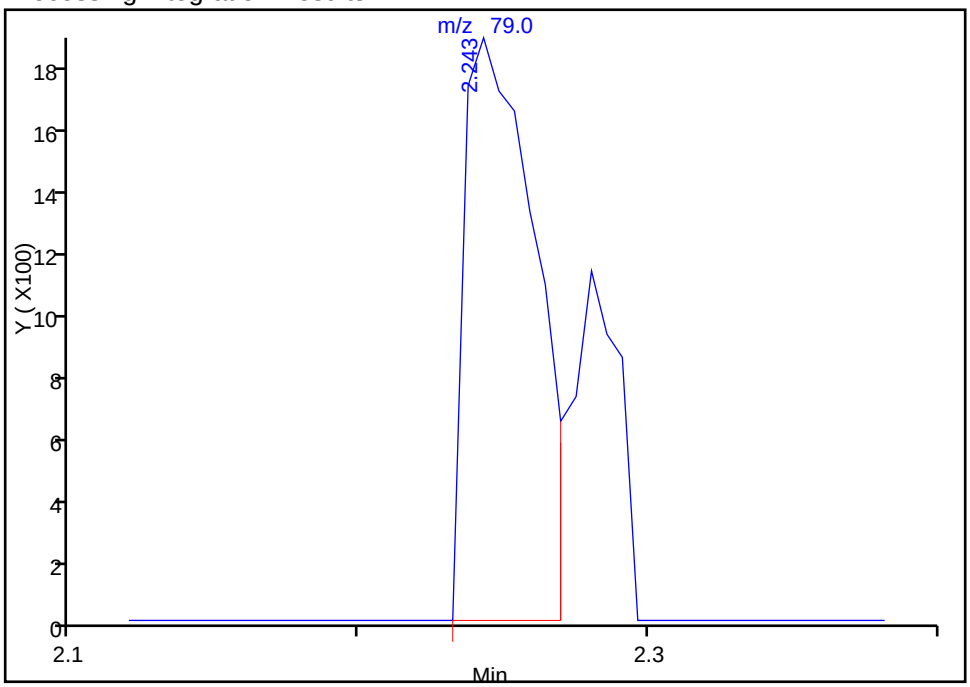
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203003.D
Injection Date: 03-Feb-2015 05:53:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

15 Pyridine, CAS: 110-86-1

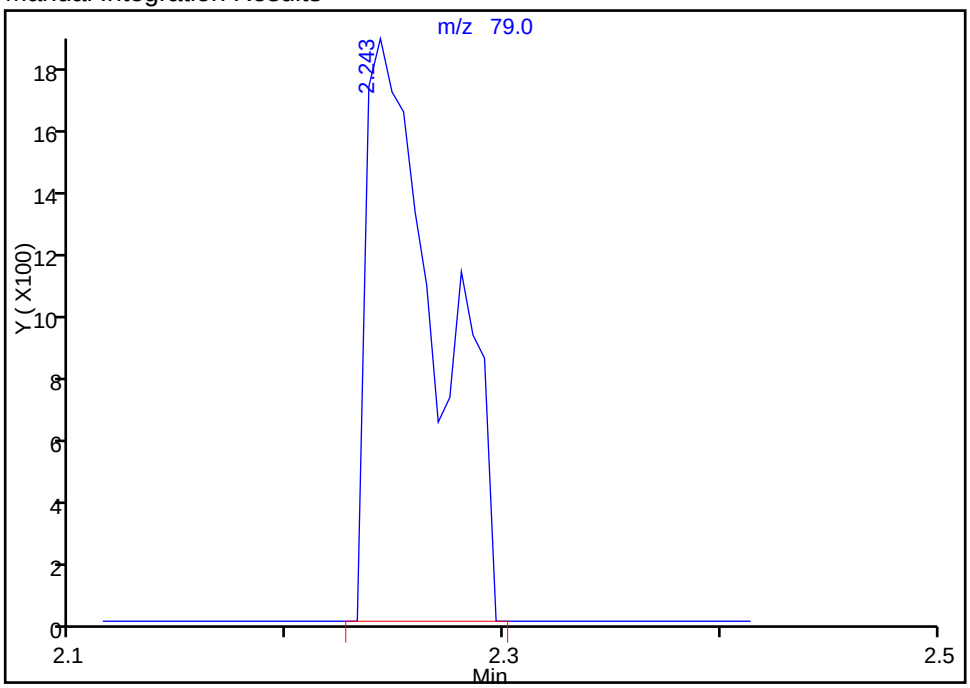
Processing Integration Results

RT: 2.24
Area: 3093
Amount: 0.399812
Amount Units: ng



Manual Integration Results

RT: 2.24
Area: 4214
Amount: 0.335929
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:47:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

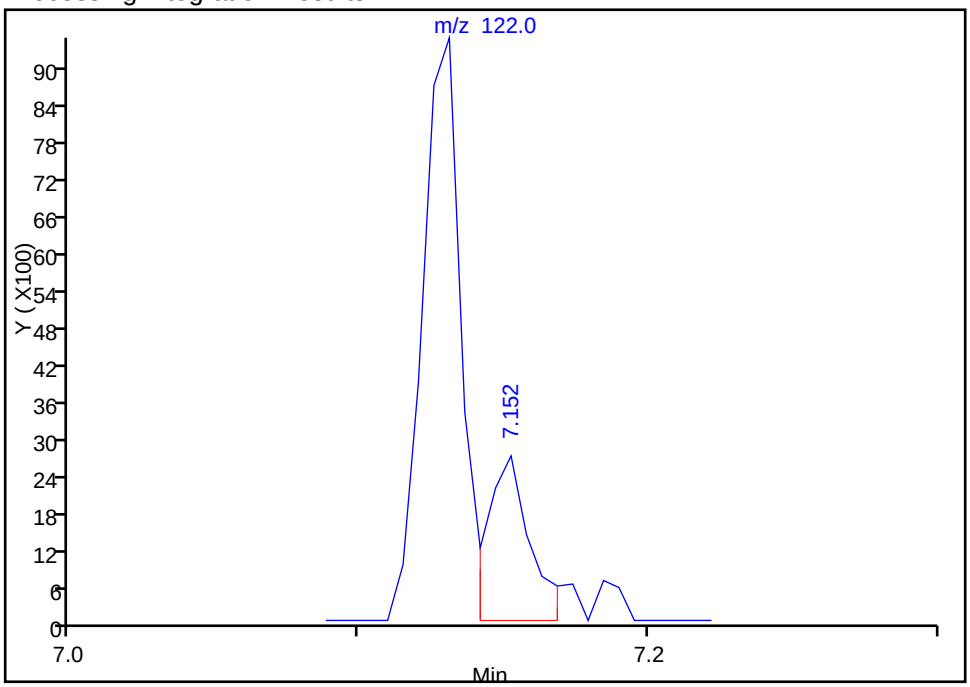
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203003.D				
Injection Date:	03-Feb-2015 05:53:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

52 Benzoic acid, CAS: 65-85-0

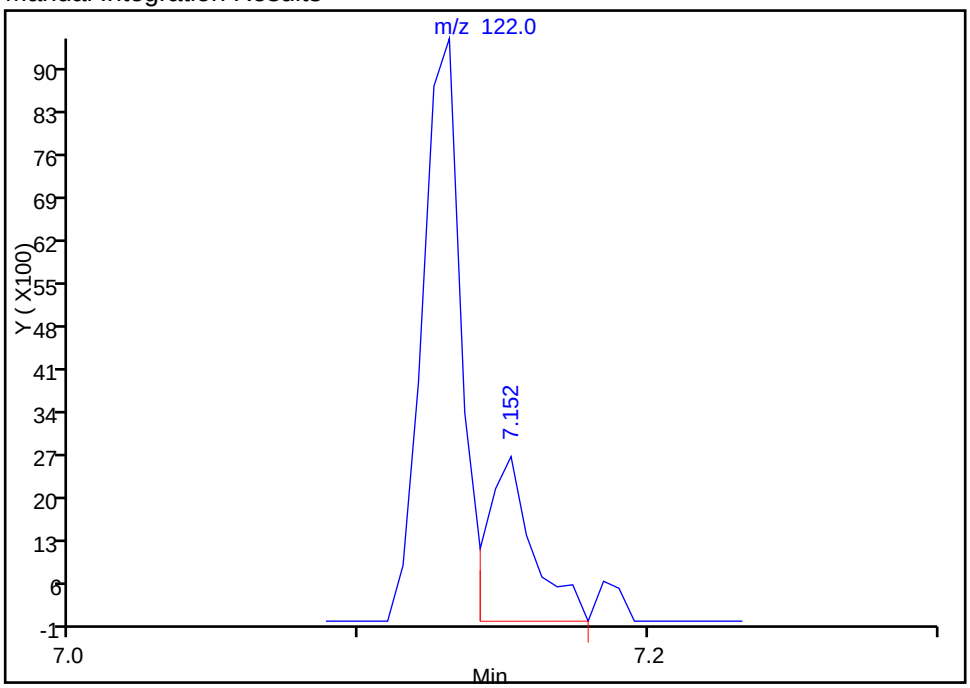
Processing Integration Results

RT: 7.15
Area: 2769
Amount: 0.268892
Amount Units: ng



Manual Integration Results

RT: 7.15
Area: 2959
Amount: 1.535991
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:47:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

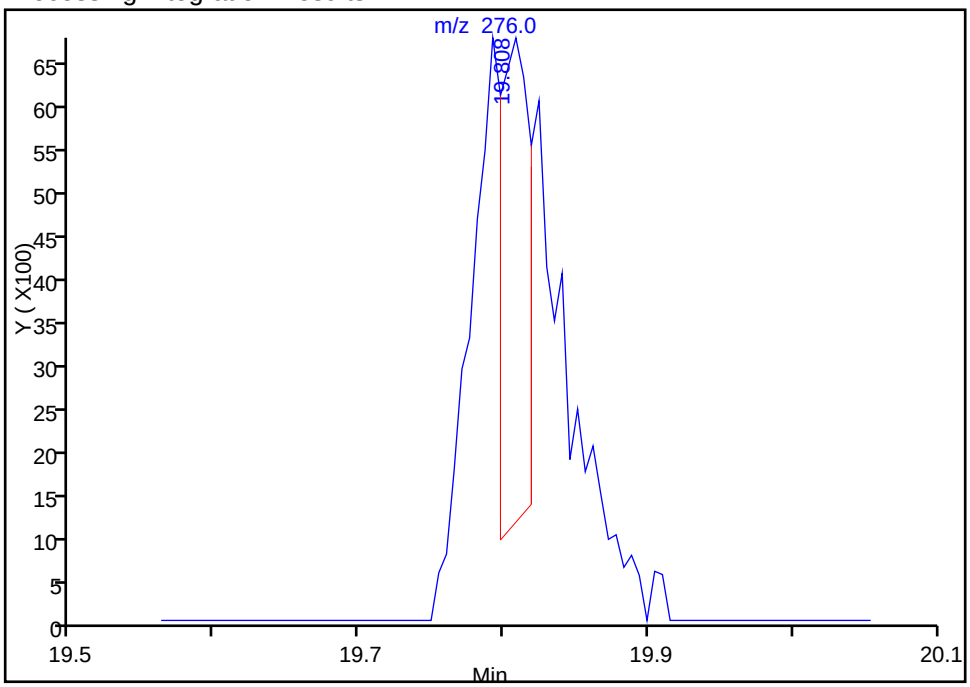
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203003.D				
Injection Date:	03-Feb-2015 05:53:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

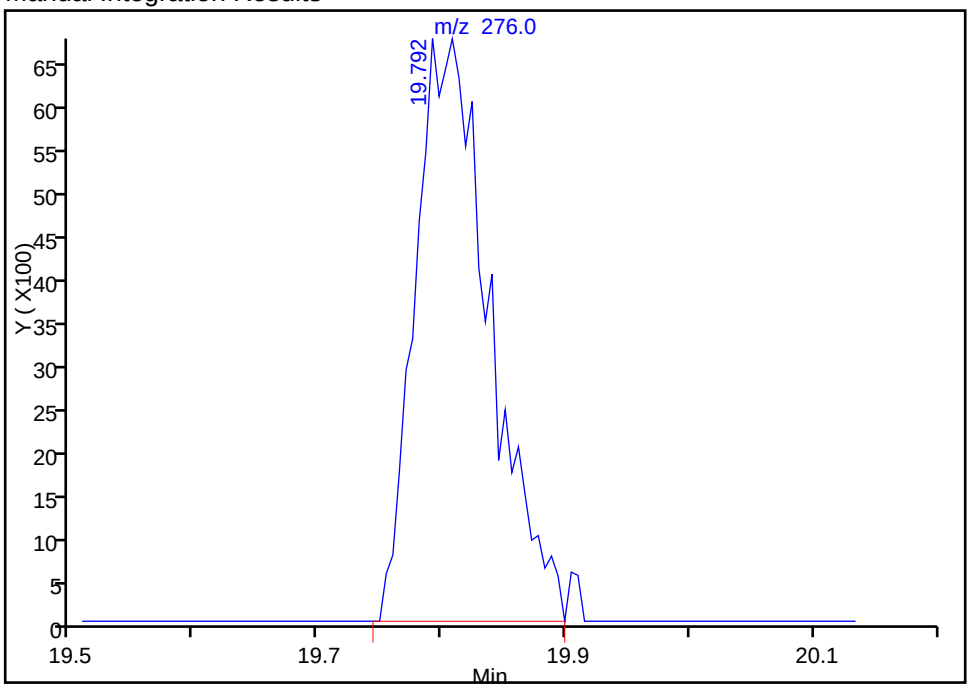
Processing Integration Results

RT: 19.81
Area: 8168
Amount: 0.144835
Amount Units: ng



Manual Integration Results

RT: 19.79
Area: 28373
Amount: 0.336190
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:47:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

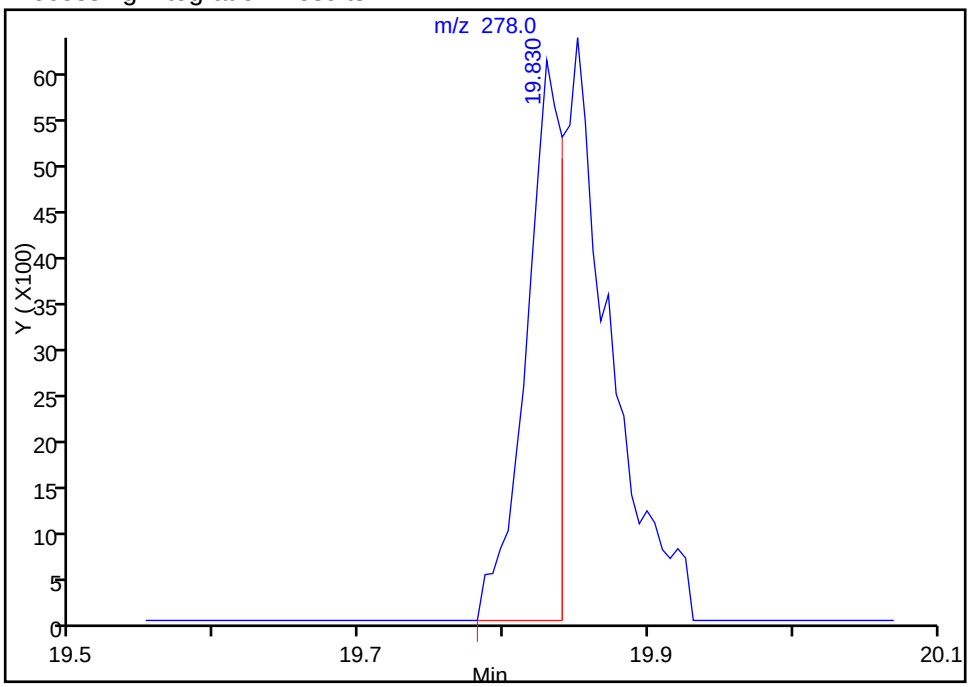
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203003.D
Injection Date: 03-Feb-2015 05:53:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

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

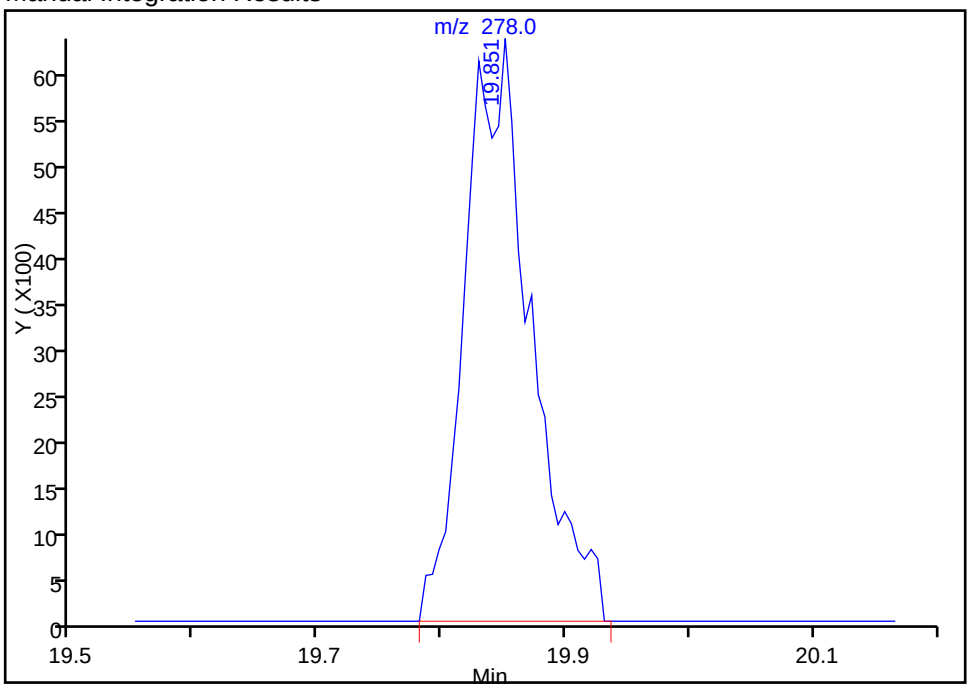
Processing Integration Results

RT: 19.83
Area: 10594
Amount: 0.204719
Amount Units: ng



Manual Integration Results

RT: 19.85
Area: 23584
Amount: 0.336134
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:47:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

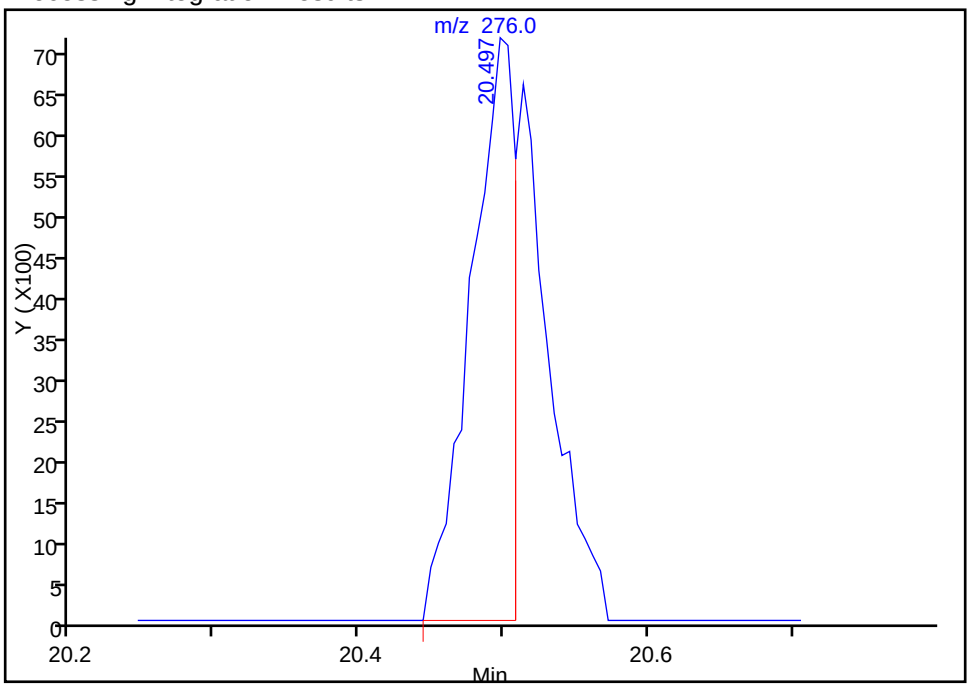
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203003.D				
Injection Date:	03-Feb-2015 05:53:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

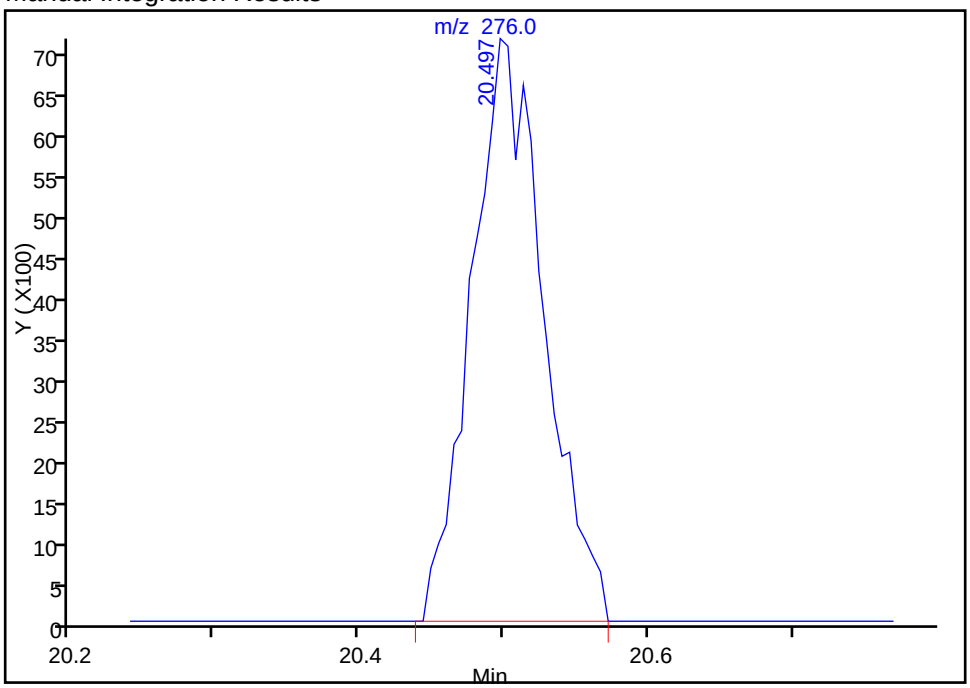
Processing Integration Results

RT: 20.50
Area: 15111
Amount: 0.402477
Amount Units: ng



Manual Integration Results

RT: 20.50
Area: 24806
Amount: 0.344484
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:47:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203004.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 03-Feb-2015 06:20:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0005518-004
Misc. Info.: IC
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 04-Feb-2015 06:40:58 Calib Date: 03-Feb-2015 09:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: piccolinov Date: 03-Feb-2015 08:48:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.180	6.180	0.000	97	143973	8.00	8.00	
* 2 Naphthalene-d8	136	7.478	7.478	0.000	100	645863	8.00	8.00	
* 3 Acenaphthene-d10	164	9.204	9.204	0.000	92	407379	8.00	8.00	
* 4 Phenanthrene-d10	188	10.668	10.668	0.000	97	739534	8.00	8.00	
* 5 Chrysene-d12	240	14.477	14.477	0.000	97	673939	8.00	8.00	
* 6 Perylene-d12	264	17.388	17.388	0.000	96	560589	8.00	8.00	
$ 7 2-Fluorophenol	112	4.706	4.706	0.000	92	37650	2.00	2.02	
$ 8 Phenol-d5	99	5.796	5.796	0.000	95	50263	2.00	2.00	
$ 9 Nitrobenzene-d5	82	6.746	6.746	0.000	94	55043	2.00	2.03	
$ 10 2-Fluorobiphenyl	172	8.531	8.531	0.000	99	137132	2.00	2.05	
$ 11 2,4,6-Tribromophenol	330	9.968	9.968	0.000	88	14848	2.00	1.83	
$ 12 Terphenyl-d14	244	12.628	12.628	0.000	99	146177	2.00	1.99	
13 1,4-Dioxane	88	1.548	1.548	0.000	95	11737	2.00	2.05	
14 N-Nitrosodimethylamine	74	2.120	2.120	0.000	80	15503	2.00	2.00	
15 Pyridine	79	2.216	2.216	0.000	91	26410	2.00	1.95	M
21 Methyl methanesulfonate	80	4.455	4.455	0.000	89	22793	2.00	2.09	
25 Benzaldehyde	77	5.705	5.705	0.000	91	21743	2.00	1.79	
26 Phenol	94	5.806	5.806	0.000	95	60095	2.00	2.10	
27 Aniline	93	5.828	5.828	0.000	95	64483	2.00	2.04	
29 Bis(2-chloroethyl)ether	93	5.897	5.897	0.000	93	41584	2.00	2.06	
30 2-Chlorophenol	128	5.956	5.956	0.000	96	48891	2.00	2.00	
31 n-Decane	43	6.031	6.031	0.000	93	61014	2.00	2.13	
32 1,3-Dichlorobenzene	146	6.121	6.121	0.000	97	58818	2.00	2.07	
33 1,4-Dichlorobenzene	146	6.202	6.202	0.000	95	58452	2.00	2.01	
34 Benzyl alcohol	108	6.319	6.319	0.000	90	31167	2.00	2.03	
35 1,2-Dichlorobenzene	146	6.362	6.362	0.000	96	58062	2.00	2.05	
36 2-Methylphenol	108	6.437	6.437	0.000	96	45068	2.00	2.08	
37 Indene	116	6.453	6.453	0.000	89	79937	2.00	2.03	
38 2,2'-oxybis[1-chloropropan	45	6.469	6.469	0.000	91	90145	2.00	2.12	
39 N-Nitrosopyrrolidine	100	6.559	6.559	0.000	79	21630	2.00	2.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.592	6.592	0.000	76	70865	2.00	2.17	
41 N-Nitrosodi-n-propylamine	70	6.592	6.592	0.000	77	34348	2.00	2.23	
42 4-Methylphenol	108	6.592	6.592	0.000	62	47943	2.00	2.16	
45 Hexachloroethane	117	6.714	6.714	0.000	95	25617	2.00	2.03	
46 Nitrobenzene	77	6.768	6.768	0.000	92	55637	2.00	2.07	
48 Isophorone	82	7.003	7.003	0.000	97	95220	2.00	2.01	
49 2-Nitrophenol	139	7.094	7.094	0.000	96	29702	2.00	1.99	
50 2,4-Dimethylphenol	107	7.126	7.126	0.000	96	56716	2.00	2.09	
52 Benzoic acid	122	7.158	7.158	0.000	91	18161	2.00	2.45	M
53 Bis(2-chloroethoxy)methane	93	7.217	7.217	0.000	95	60701	2.00	2.08	
54 2,4-Dichlorophenol	162	7.329	7.329	0.000	96	47384	2.00	2.00	
56 1,2,4-Trichlorobenzene	180	7.420	7.420	0.000	94	56870	2.00	2.09	
58 Naphthalene	128	7.500	7.500	0.000	98	180017	2.00	2.06	
59 4-Chloroaniline	127	7.542	7.542	0.000	96	70259	2.00	2.01	
60 2,6-Dichlorophenol	162	7.553	7.553	0.000	96	50566	2.00	2.14	
62 Hexachlorobutadiene	225	7.628	7.628	0.000	97	33197	2.00	2.04	
64 Caprolactam	113	7.842	7.842	0.000	74	16212	2.00	2.04	
67 4-Chloro-3-methylphenol	107	8.002	8.002	0.000	96	50346	2.00	2.02	
69 2-Methylnaphthalene	142	8.183	8.183	0.000	92	128685	2.00	2.08	
71 1-Methylnaphthalene	142	8.280	8.280	0.000	93	118777	2.00	2.05	
72 Hexachlorocyclopentadiene	237	8.344	8.344	0.000	97	34246	2.00	1.93	
73 1,2,4,5-Tetrachlorobenzene	216	8.349	8.349	0.000	98	55917	2.00	2.11	
74 2,4,6-Trichlorophenol	196	8.451	8.451	0.000	94	35559	2.00	1.96	
75 2,4,5-Trichlorophenol	196	8.483	8.483	0.000	92	36826	2.00	1.92	
76 1,1'-Biphenyl	154	8.632	8.632	0.000	94	157628	2.00	2.06	
77 2-Chloronaphthalene	162	8.659	8.659	0.000	97	129992	2.00	2.09	
79 2-Nitroaniline	65	8.744	8.744	0.000	85	34853	2.00	1.97	
82 Dimethyl phthalate	163	8.905	8.905	0.000	98	129303	2.00	2.00	
83 1,3-Dinitrobenzene	168	8.937	8.937	0.000	85	18618	2.00	1.91	
84 2,6-Dinitrotoluene	165	8.969	8.969	0.000	92	28186	2.00	1.98	
85 Acenaphthylene	152	9.070	9.070	0.000	98	192381	2.00	1.95	
86 3-Nitroaniline	138	9.134	9.134	0.000	93	33591	2.00	1.94	
87 2,4-Dinitrophenol	184	9.236	9.236	0.000	62	22936	4.00	3.14	
88 Acenaphthene	153	9.236	9.236	0.000	91	126036	2.00	2.10	
89 4-Nitrophenol	109	9.273	9.273	0.000	97	36110	4.00	3.77	
91 2,4-Dinitrotoluene	165	9.364	9.364	0.000	92	37788	2.00	2.02	
93 Dibenzofuran	168	9.402	9.402	0.000	96	175543	2.00	2.04	
95 2,3,5,6-Tetrachlorophenol	232	9.476	9.476	0.000	93	32909	2.00	1.97	
96 2,3,4,6-Tetrachlorophenol	232	9.519	9.519	0.000	74	32937	2.00	2.01	
97 2-Naphthylamine	143	9.546	9.546	0.000	97	127319	2.00	2.07	
98 Diethyl phthalate	149	9.583	9.583	0.000	98	141494	2.00	2.14	
99 Hexadecane	57	9.588	9.588	0.000	91	102020	2.00	2.14	
100 4-Chlorophenyl phenyl ethe	204	9.717	9.717	0.000	94	65852	2.00	2.08	
101 4-Nitroaniline	138	9.727	9.727	0.000	89	34362	2.00	2.01	
103 Fluorene	166	9.738	9.738	0.000	94	138685	2.00	2.07	
104 4,6-Dinitro-2-methylphenol	198	9.759	9.759	0.000	81	36409	4.00	3.03	
105 N-Nitrosodiphenylamine	169	9.829	9.829	0.000	64	98631	2.00	1.88	
90 1,2-Diphenylhydrazine	77	9.872	9.872	0.000	99	148666	2.00	1.98	
110 4-Bromophenyl phenyl ether	248	10.192	10.192	0.000	71	36435	2.00	1.89	
112 Hexachlorobenzene	284	10.278	10.278	0.000	93	37887	2.00	1.96	
113 Atrazine	200	10.315	10.315	0.000	89	29538	2.00	1.94	
116 Pentachlorophenol	266	10.459	10.459	0.000	90	50690	4.00	3.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.475	10.475	0.000	91	107882	2.00	2.11	
121 Phenanthrene	178	10.694	10.694	0.000	97	212492	2.00	1.91	
122 Anthracene	178	10.748	10.748	0.000	97	214399	2.00	1.89	
124 Carbazole	167	10.903	10.903	0.000	93	190765	2.00	1.92	
126 Di-n-butyl phthalate	149	11.234	11.234	0.000	99	230689	2.00	1.85	
57 Azobenzene	77		11.923				ND	ND	
131 Fluoranthene	202	12.115	12.115	0.000	98	210680	2.00	1.88	
132 Benzidine	184	12.260	12.260	0.000	99	56969	2.00	2.45	
133 Pyrene	202	12.447	12.447	0.000	97	221103	2.00	1.99	
138 Butyl benzyl phthalate	149	13.381	13.381	0.000	98	93839	2.00	1.90	
144 3,3'-Dichlorobenzidine	252	14.380	14.380	0.000	75	58677	2.00	1.81	
145 Bis(2-ethylhexyl) phthalat	149	14.445	14.445	0.000	96	132135	2.00	1.93	
146 Benzo[a]anthracene	228	14.455	14.455	0.000	99	194307	2.00	1.99	
147 Chrysene	228	14.525	14.525	0.000	98	184718	2.00	2.01	
150 Di-n-octyl phthalate	149	15.759	15.759	0.000	99	185265	2.00	1.70	
151 7,12-Dimethylbenz(a)anthra	256	16.598	16.598	0.000	82	72293	2.00	1.87	
152 Benzo[b]fluoranthene	252	16.614	16.614	0.000	97	174164	2.00	1.92	
153 Benzo[k]fluoranthene	252	16.662	16.662	0.000	98	172135	2.00	1.93	
219 Benzo[e]pyrene	252	17.174	17.174	0.000	0	156862	2.00	1.91	
154 Benzo[a]pyrene	252	17.271	17.271	0.000	79	157185	2.00	1.92	
157 Indeno[1,2,3-cd]pyrene	276	19.792	19.792	0.000	93	154678	2.00	1.80	M
158 Dibenz(a,h)anthracene	278	19.840	19.840	0.000	93	130639	2.00	1.82	M
159 Benzo[g,h,i]perylene	276	20.497	20.497	0.000	96	132922	2.00	1.81	M
S 197 Methyl Phenols,Total	108				0		4.00	4.24	
S 199 Total Cresols	108				0		4.00	4.24	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD2.0i_00005 Amount Added: 1.00 Units: mL

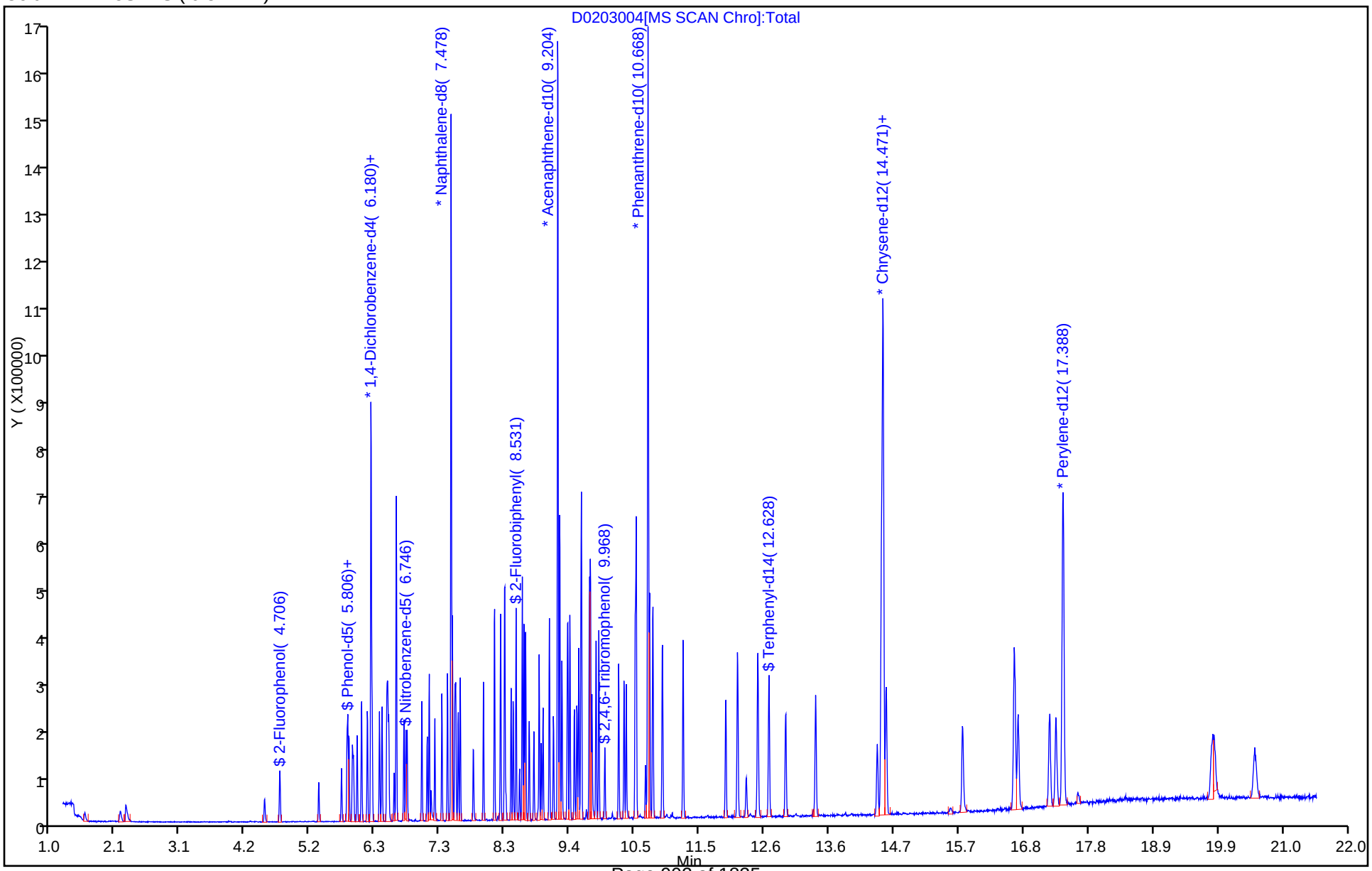
Report Date: 04-Feb-2015 06:40:58 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203004.D

Injection Date:	03-Feb-2015 06:20:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

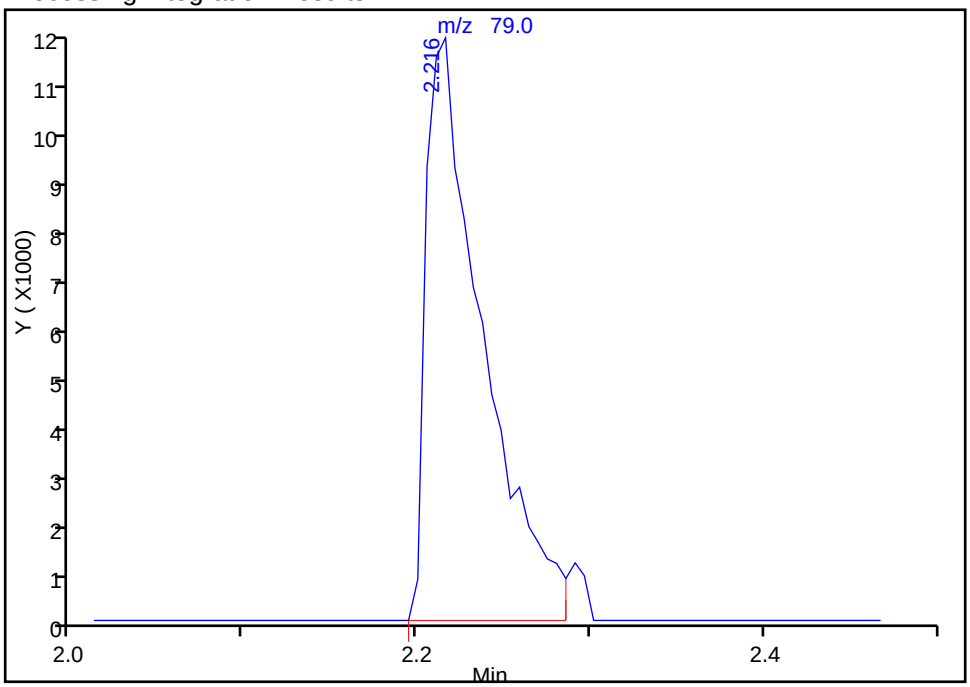
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203004.D
Injection Date: 03-Feb-2015 06:20:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

15 Pyridine, CAS: 110-86-1

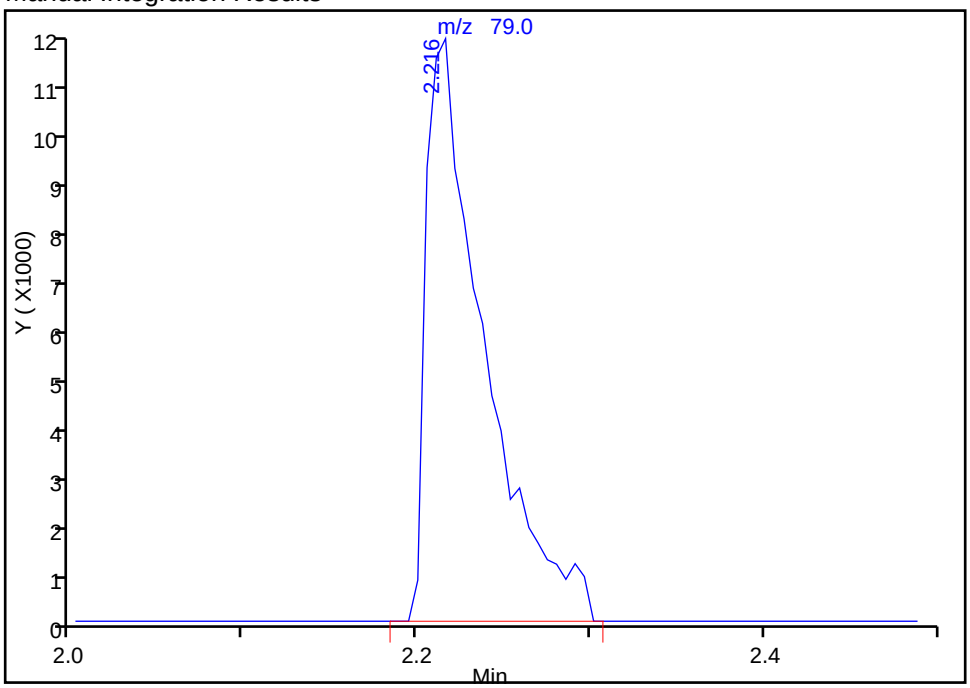
Processing Integration Results

RT: 2.22
Area: 25773
Amount: 1.933329
Amount Units: ng



Manual Integration Results

RT: 2.22
Area: 26410
Amount: 1.954321
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:48:35
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

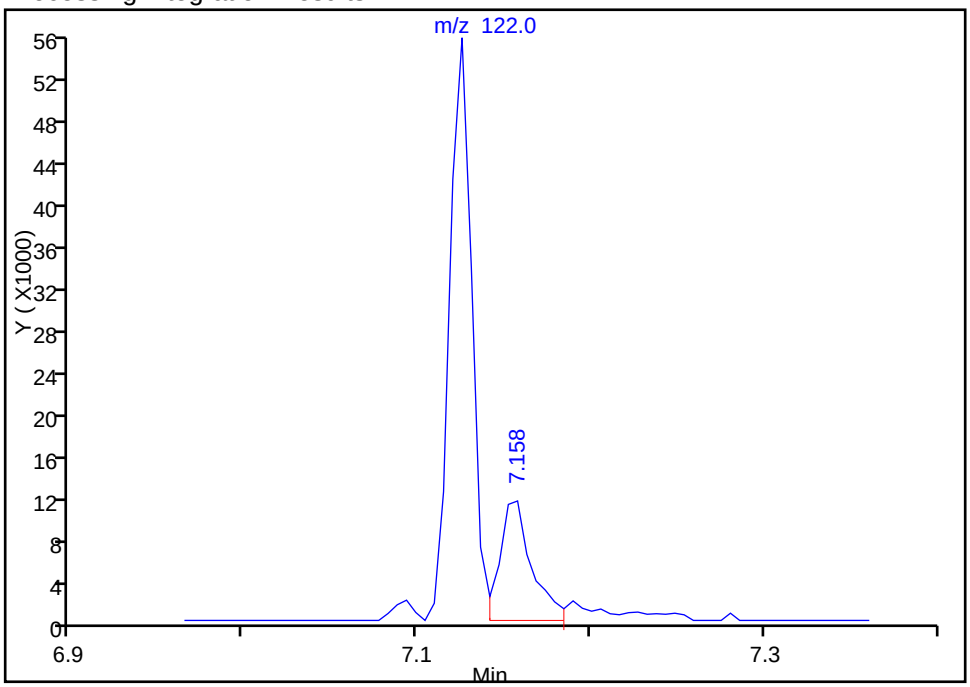
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203004.D
Injection Date: 03-Feb-2015 06:20:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

52 Benzoic acid, CAS: 65-85-0

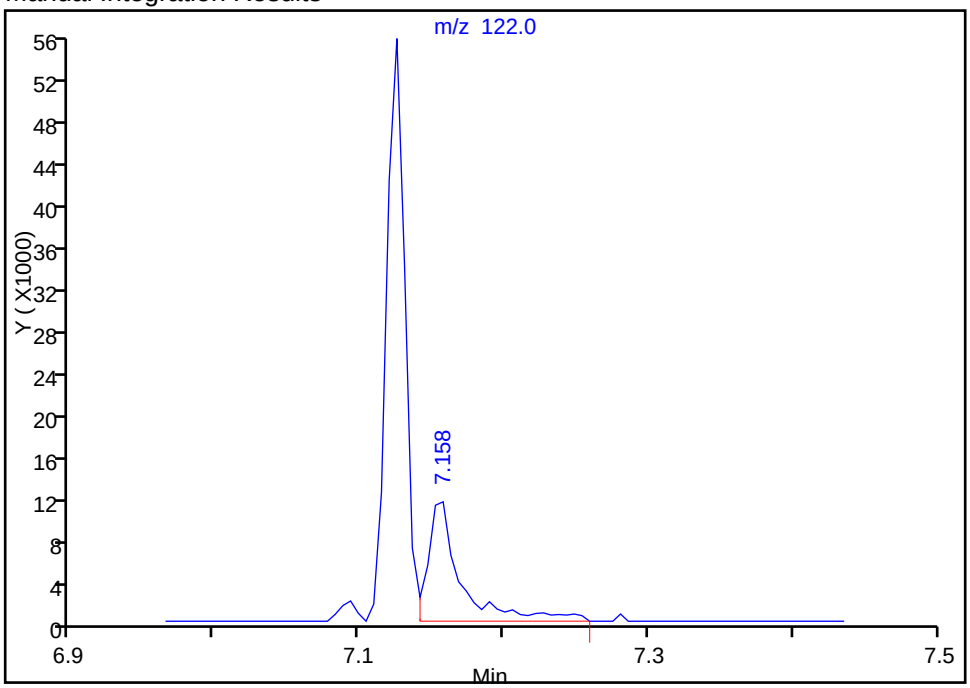
Processing Integration Results

RT: 7.16
Area: 14759
Amount: 1.341947
Amount Units: ng



Manual Integration Results

RT: 7.16
Area: 18161
Amount: 2.449653
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:48:35
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

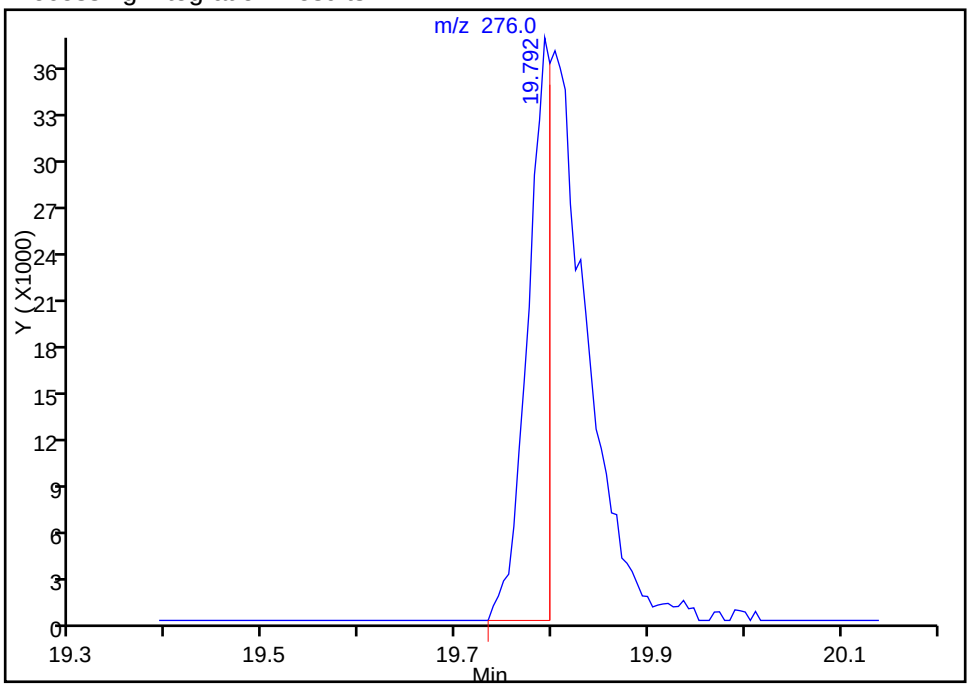
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203004.D				
Injection Date:	03-Feb-2015 06:20:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

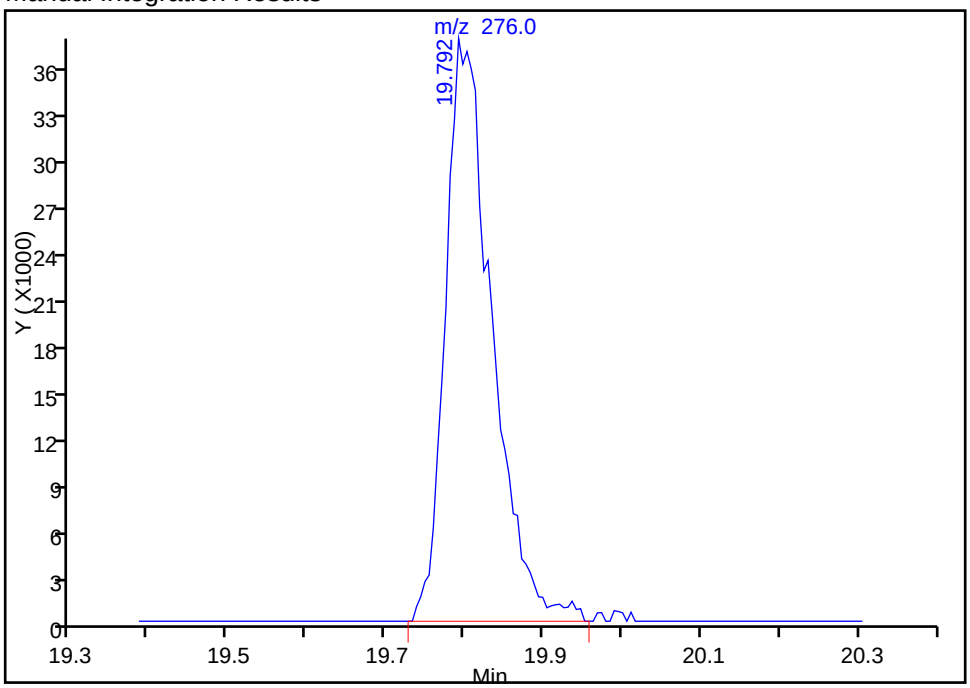
Processing Integration Results

RT: 19.79
Area: 62619
Amount: 0.946944
Amount Units: ng



Manual Integration Results

RT: 19.79
Area: 154678
Amount: 1.796361
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:48:35
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

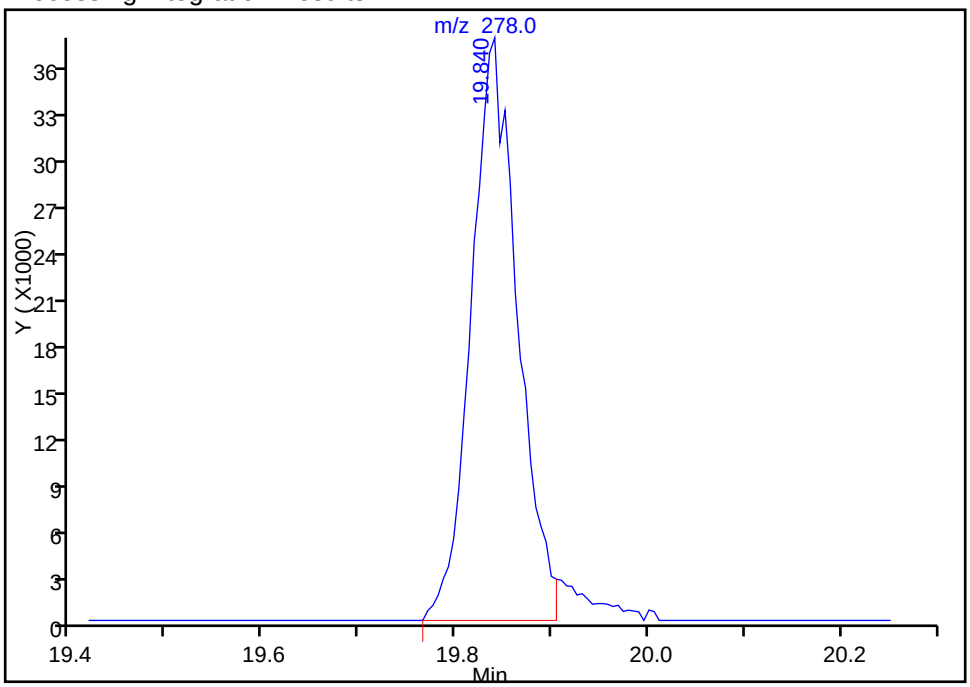
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203004.D				
Injection Date:	03-Feb-2015 06:20:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

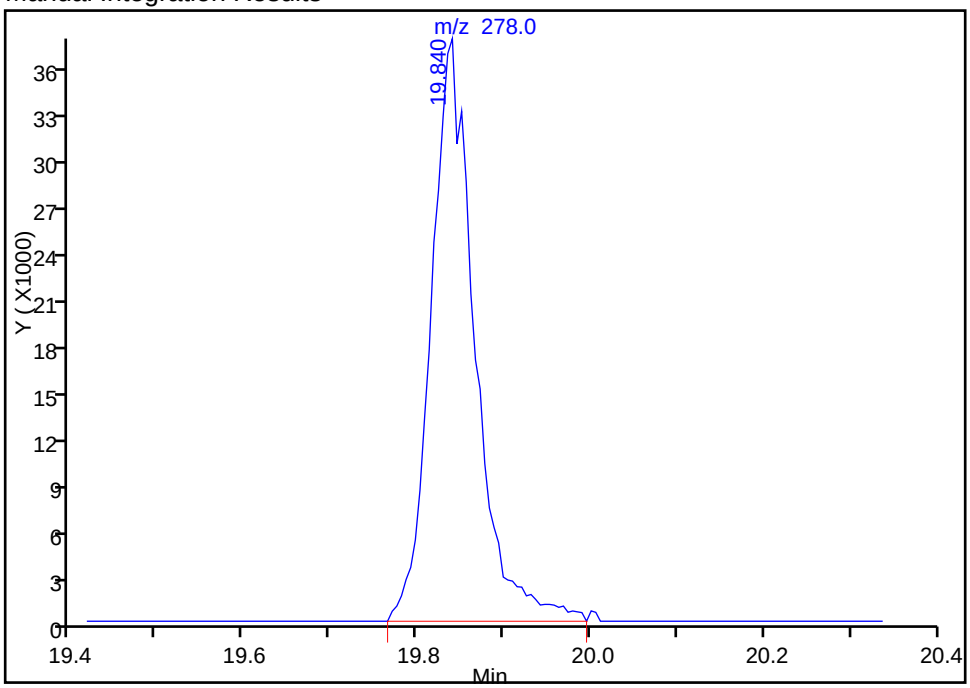
Processing Integration Results

RT: 19.84
Area: 124199
Amount: 2.129613
Amount Units: ng



Manual Integration Results

RT: 19.84
Area: 130639
Amount: 1.824963
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:48:35
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

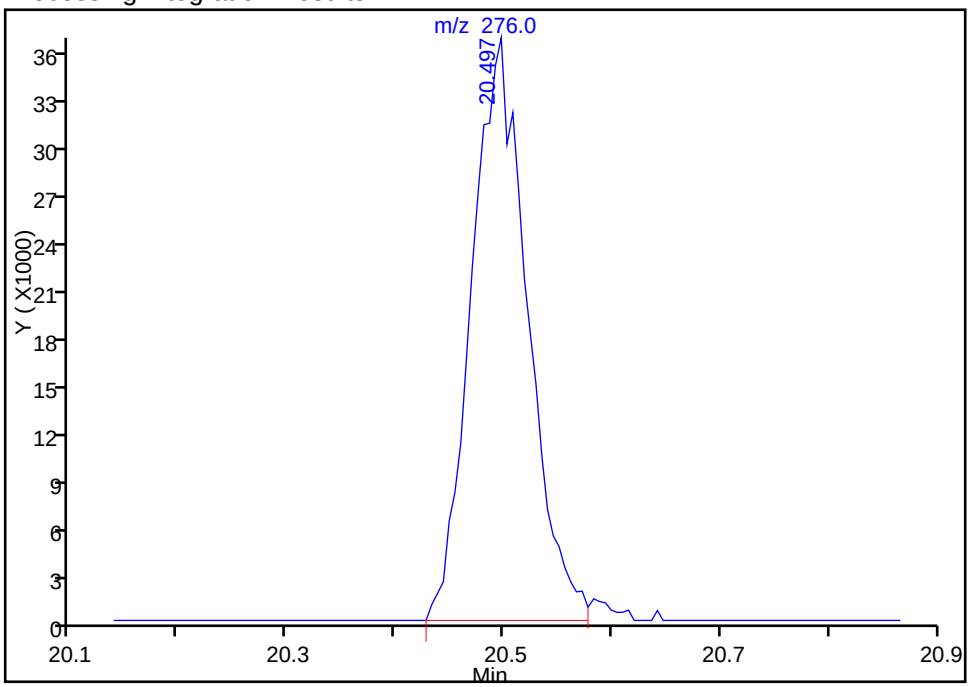
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203004.D				
Injection Date:	03-Feb-2015 06:20:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

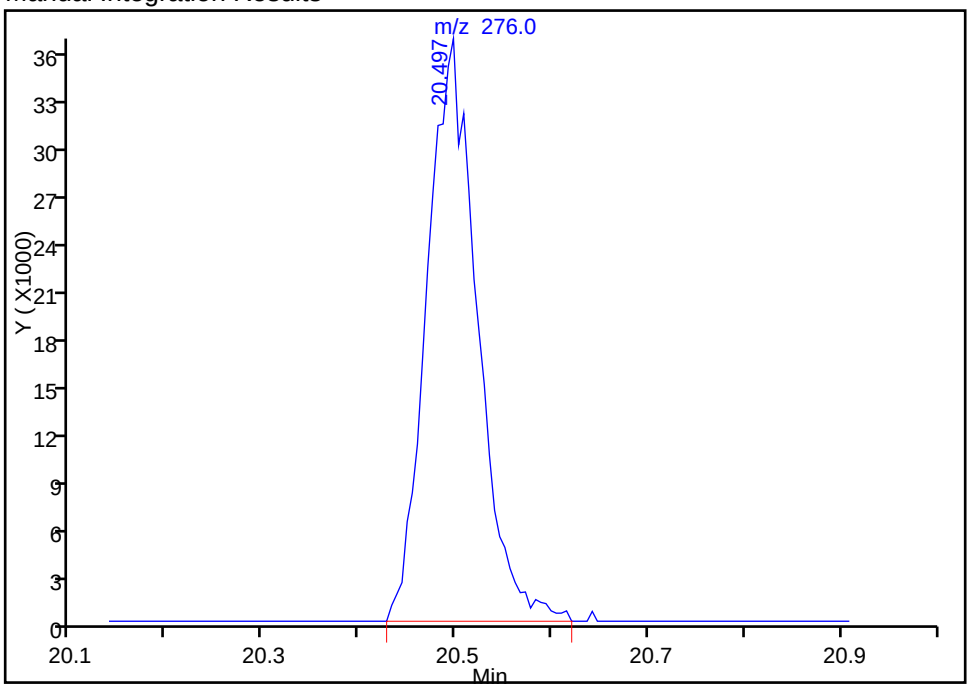
Processing Integration Results

RT: 20.50
Area: 131022
Amount: 1.878868
Amount Units: ng



Manual Integration Results

RT: 20.50
Area: 132922
Amount: 1.809236
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:48:35
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 03-Feb-2015 06:46:30 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0005518-005
Misc. Info.: IC
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 04-Feb-2015 06:41:05 Calib Date: 03-Feb-2015 09:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: piccolinov Date: 03-Feb-2015 08:41:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.175	6.175	0.000	97	143248	8.00	8.00	
* 2 Naphthalene-d8	136	7.473	7.473	0.000	100	667133	8.00	8.00	
* 3 Acenaphthene-d10	164	9.204	9.204	0.000	91	420149	8.00	8.00	
* 4 Phenanthrene-d10	188	10.662	10.662	0.000	95	738596	8.00	8.00	
* 5 Chrysene-d12	240	14.466	14.466	0.000	96	676299	8.00	8.00	
* 6 Perylene-d12	264	17.383	17.383	0.000	96	529106	8.00	8.00	
$ 7 2-Fluorophenol	112	4.695	4.695	0.000	86	77789	4.00	4.19	
$ 8 Phenol-d5	99	5.790	5.790	0.000	93	108130	4.00	4.32	
$ 9 Nitrobenzene-d5	82	6.741	6.741	0.000	90	113169	4.00	4.04	
$ 10 2-Fluorobiphenyl	172	8.531	8.531	0.000	99	284174	4.00	4.12	
$ 11 2,4,6-Tribromophenol	330	9.968	9.968	0.000	86	32838	4.00	4.04	
$ 12 Terphenyl-d14	244	12.623	12.623	0.000	97	299886	4.00	4.07	
13 1,4-Dioxane	88	1.527	1.527	0.000	81	23830	4.00	4.18	
14 N-Nitrosodimethylamine	74	2.093	2.093	0.000	64	30743	4.00	3.99	
15 Pyridine	79	2.179	2.179	0.000	87	55290	4.00	4.11	
21 Methyl methanesulfonate	80	4.444	4.444	0.000	90	46560	4.00	4.29	
25 Benzaldehyde	77	5.699	5.699	0.000	85	45208	4.00	3.74	
26 Phenol	94	5.801	5.801	0.000	95	120902	4.00	4.26	
27 Aniline	93	5.822	5.822	0.000	59	132805	4.00	4.22	
29 Bis(2-chloroethyl)ether	93	5.892	5.892	0.000	87	84668	4.00	4.22	
30 2-Chlorophenol	128	5.950	5.950	0.000	96	102500	4.00	4.22	
31 n-Decane	43	6.025	6.025	0.000	94	122092	4.00	4.29	
32 1,3-Dichlorobenzene	146	6.116	6.116	0.000	96	117189	4.00	4.15	
33 1,4-Dichlorobenzene	146	6.196	6.196	0.000	84	124324	4.00	4.29	
34 Benzyl alcohol	108	6.314	6.314	0.000	87	67422	4.00	4.42	
35 1,2-Dichlorobenzene	146	6.356	6.356	0.000	91	117889	4.00	4.18	
36 2-Methylphenol	108	6.436	6.436	0.000	96	94232	4.00	4.37	
37 Indene	116	6.447	6.447	0.000	84	167642	4.00	4.28	
38 2,2'-oxybis[1-chloropropan	45	6.463	6.463	0.000	60	188707	4.00	4.47	
39 N-Nitrosopyrrolidine	100	6.554	6.554	0.000	76	45845	4.00	4.37	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 4-Methylphenol	108	6.591	6.591	0.000	69	99882	4.00	4.51	
40 Acetophenone	105	6.586	6.586	0.000	77	143572	4.00	4.42	
41 N-Nitrosodi-n-propylamine	70	6.586	6.586	0.000	72	70224	4.00	4.59	
45 Hexachloroethane	117	6.709	6.709	0.000	95	53481	4.00	4.26	
46 Nitrobenzene	77	6.762	6.762	0.000	93	114851	4.00	4.13	
48 Isophorone	82	7.003	7.003	0.000	95	200303	4.00	4.09	
49 2-Nitrophenol	139	7.088	7.088	0.000	95	61516	4.00	4.00	
50 2,4-Dimethylphenol	107	7.120	7.120	0.000	74	117563	4.00	4.19	
52 Benzoic acid	122	7.158	7.158	0.000	78	45351	4.00	4.02	M
53 Bis(2-chloroethoxy)methane	93	7.211	7.211	0.000	95	125607	4.00	4.17	
54 2,4-Dichlorophenol	162	7.329	7.329	0.000	94	99409	4.00	4.05	
56 1,2,4-Trichlorobenzene	180	7.419	7.419	0.000	94	116908	4.00	4.16	
58 Naphthalene	128	7.494	7.494	0.000	84	369682	4.00	4.10	
59 4-Chloroaniline	127	7.537	7.537	0.000	76	150282	4.00	4.16	
60 2,6-Dichlorophenol	162	7.553	7.553	0.000	92	105695	4.00	4.33	
62 Hexachlorobutadiene	225	7.622	7.622	0.000	74	67792	4.00	4.03	
64 Caprolactam	113	7.836	7.836	0.000	61	33697	4.00	4.10	
67 4-Chloro-3-methylphenol	107	8.002	8.002	0.000	91	106402	4.00	4.14	
69 2-Methylnaphthalene	142	8.178	8.178	0.000	88	260830	4.00	4.09	
71 1-Methylnaphthalene	142	8.280	8.280	0.000	82	248893	4.00	4.16	
72 Hexachlorocyclopentadiene	237	8.338	8.338	0.000	96	71542	4.00	3.91	
73 1,2,4,5-Tetrachlorobenzene	216	8.344	8.344	0.000	95	117976	4.00	4.31	
74 2,4,6-Trichlorophenol	196	8.445	8.445	0.000	94	76466	4.00	4.09	
75 2,4,5-Trichlorophenol	196	8.483	8.483	0.000	94	81693	4.00	4.12	
76 1,1'-Biphenyl	154	8.627	8.627	0.000	96	321551	4.00	4.07	
77 2-Chloronaphthalene	162	8.659	8.659	0.000	71	261278	4.00	4.08	
79 2-Nitroaniline	65	8.739	8.739	0.000	71	76492	4.00	4.20	
82 Dimethyl phthalate	163	8.905	8.905	0.000	98	274773	4.00	4.12	
83 1,3-Dinitrobenzene	168	8.937	8.937	0.000	80	40950	4.00	4.08	
84 2,6-Dinitrotoluene	165	8.963	8.963	0.000	67	60939	4.00	4.16	
85 Acenaphthylene	152	9.065	9.065	0.000	89	416410	4.00	4.10	
86 3-Nitroaniline	138	9.134	9.134	0.000	93	72336	4.00	4.06	
87 2,4-Dinitrophenol	184	9.236	9.236	0.000	45	59478	8.00	6.75	
88 Acenaphthene	153	9.236	9.236	0.000	86	263354	4.00	4.25	
89 4-Nitrophenol	109	9.268	9.268	0.000	80	78078	8.00	7.91	
91 2,4-Dinitrotoluene	165	9.359	9.359	0.000	87	78701	4.00	4.09	
93 Dibenzofuran	168	9.401	9.401	0.000	79	363941	4.00	4.09	
95 2,3,5,6-Tetrachlorophenol	232	9.471	9.471	0.000	91	69064	4.00	4.01	
96 2,3,4,6-Tetrachlorophenol	232	9.514	9.514	0.000	74	70676	4.00	4.18	
97 2-Naphthylamine	143	9.540	9.540	0.000	83	266173	4.00	4.20	
98 Diethyl phthalate	149	9.578	9.578	0.000	95	282894	4.00	4.15	
99 Hexadecane	57	9.588	9.588	0.000	91	219225	4.00	4.45	
100 4-Chlorophenyl phenyl ethe	204	9.717	9.717	0.000	93	136257	4.00	4.17	
101 4-Nitroaniline	138	9.722	9.722	0.000	76	72364	4.00	4.11	
103 Fluorene	166	9.733	9.733	0.000	80	288323	4.00	4.17	
104 4,6-Dinitro-2-methylphenol	198	9.759	9.759	0.000	65	84343	8.00	7.03	
105 N-Nitrosodiphenylamine	169	9.823	9.823	0.000	61	207962	4.00	3.96	
90 1,2-Diphenylhydrazine	77	9.866	9.866	0.000	98	312827	4.00	4.16	
110 4-Bromophenyl phenyl ether	248	10.192	10.192	0.000	64	78447	4.00	4.07	
112 Hexachlorobenzene	284	10.278	10.278	0.000	89	79204	4.00	4.11	
113 Atrazine	200	10.315	10.315	0.000	72	62578	4.00	4.11	
116 Pentachlorophenol	266	10.459	10.459	0.000	90	98731	8.00	7.26	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.470	10.470	0.000	90	234012	4.00	4.59	
121 Phenanthrene	178	10.689	10.689	0.000	96	443670	4.00	4.00	
122 Anthracene	178	10.742	10.742	0.000	97	454435	4.00	4.00	
124 Carbazole	167	10.897	10.897	0.000	82	403180	4.00	4.06	
126 Di-n-butyl phthalate	149	11.234	11.234	0.000	99	478707	4.00	3.85	
57 Azobenzene	77		11.923				ND	ND	
131 Fluoranthene	202	12.115	12.115	0.000	97	437332	4.00	3.91	
132 Benzidine	184	12.260	12.260	0.000	94	115541	4.00	3.60	
133 Pyrene	202	12.441	12.441	0.000	97	447116	4.00	4.01	
138 Butyl benzyl phthalate	149	13.376	13.376	0.000	96	194904	4.00	3.93	
144 3,3'-Dichlorobenzidine	252	14.375	14.375	0.000	57	119990	4.00	3.68	
145 Bis(2-ethylhexyl) phthalat	149	14.439	14.439	0.000	94	258611	4.00	3.77	
146 Benzo[a]anthracene	228	14.450	14.450	0.000	98	388390	4.00	3.97	
147 Chrysene	228	14.519	14.519	0.000	91	365240	4.00	3.96	
150 Di-n-octyl phthalate	149	15.753	15.753	0.000	98	382318	4.00	3.72	
151 7,12-Dimethylbenz(a)anthra	256	16.587	16.587	0.000	70	142947	4.00	3.92	
152 Benzo[b]fluoranthene	252	16.603	16.603	0.000	95	351632	4.00	4.10	
153 Benzo[k]fluoranthene	252	16.656	16.656	0.000	99	320222	4.00	3.81	
219 Benzo[e]pyrene	252	17.164	17.164	0.000	0	306198	4.00	3.96	
154 Benzo[a]pyrene	252	17.265	17.265	0.000	72	303646	4.00	3.93	
157 Indeno[1,2,3-cd]pyrene	276	19.787	19.787	0.000	92	296192	4.00	3.64	
158 Dibenz(a,h)anthracene	278	19.840	19.840	0.000	56	250943	4.00	3.71	M
159 Benzo[g,h,i]perylene	276	20.487	20.487	0.000	85	257341	4.00	3.71	
S 199 Total Cresols	108				0		8.00	8.89	
S 197 Methyl Phenols,Total	108				0		8.00	8.89	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD4.0i_00006 Amount Added: 1.00 Units: mL

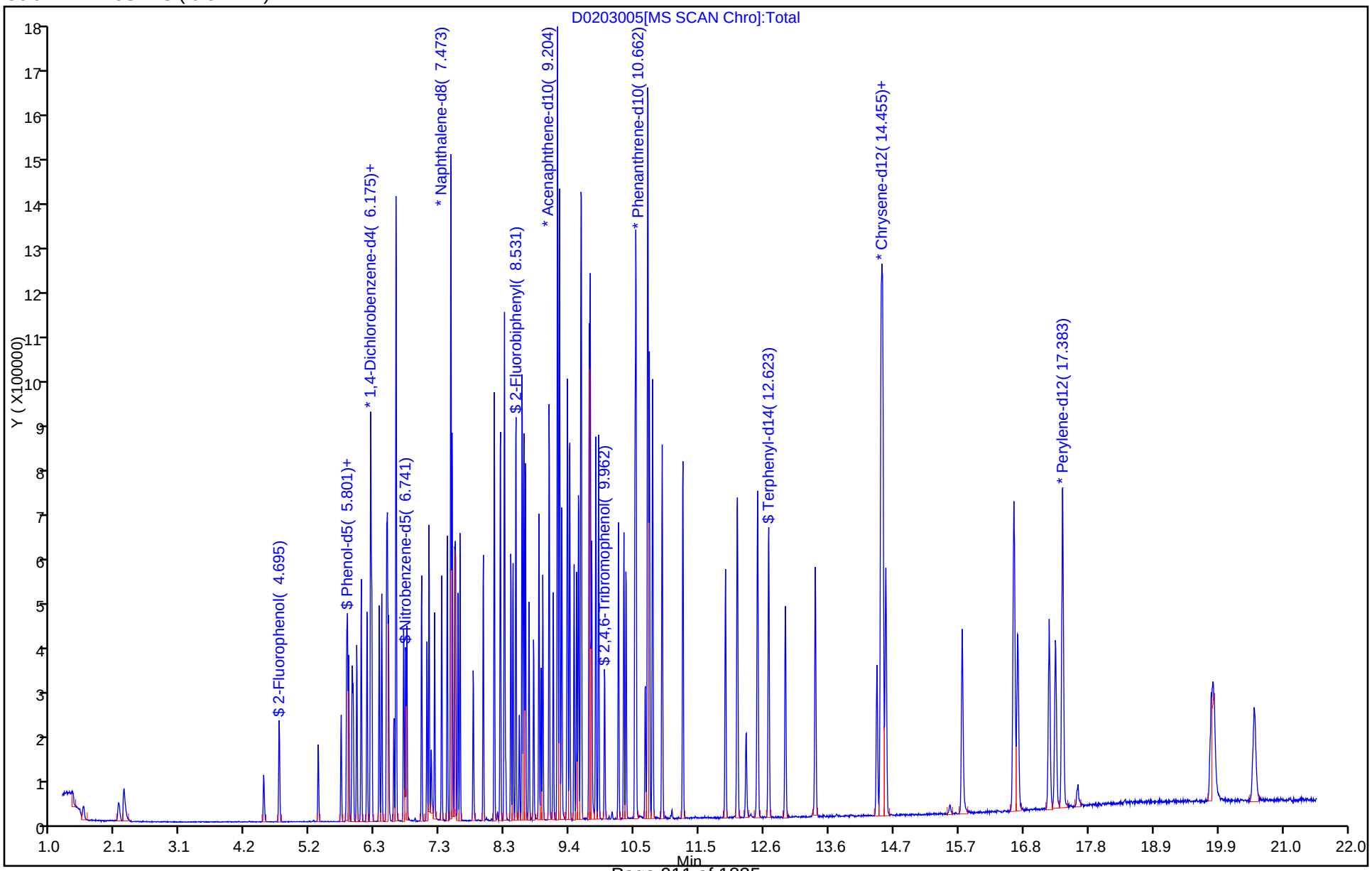
Report Date: 04-Feb-2015 06:41:05 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203005.D

Injection Date:	03-Feb-2015 06:46:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



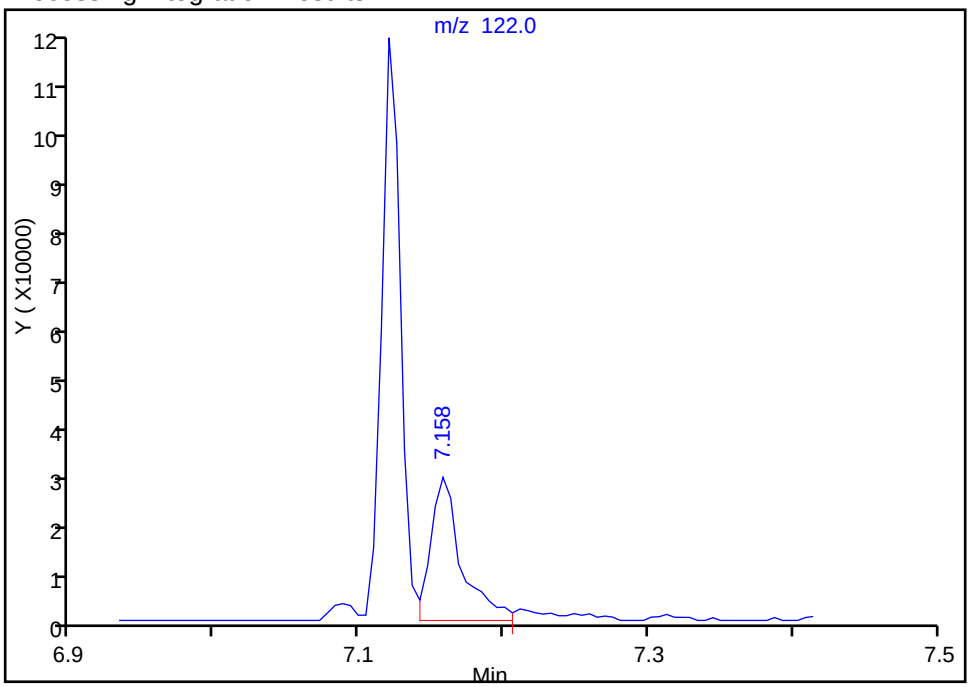
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203005.D
Injection Date: 03-Feb-2015 06:46:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

52 Benzoic acid, CAS: 65-85-0

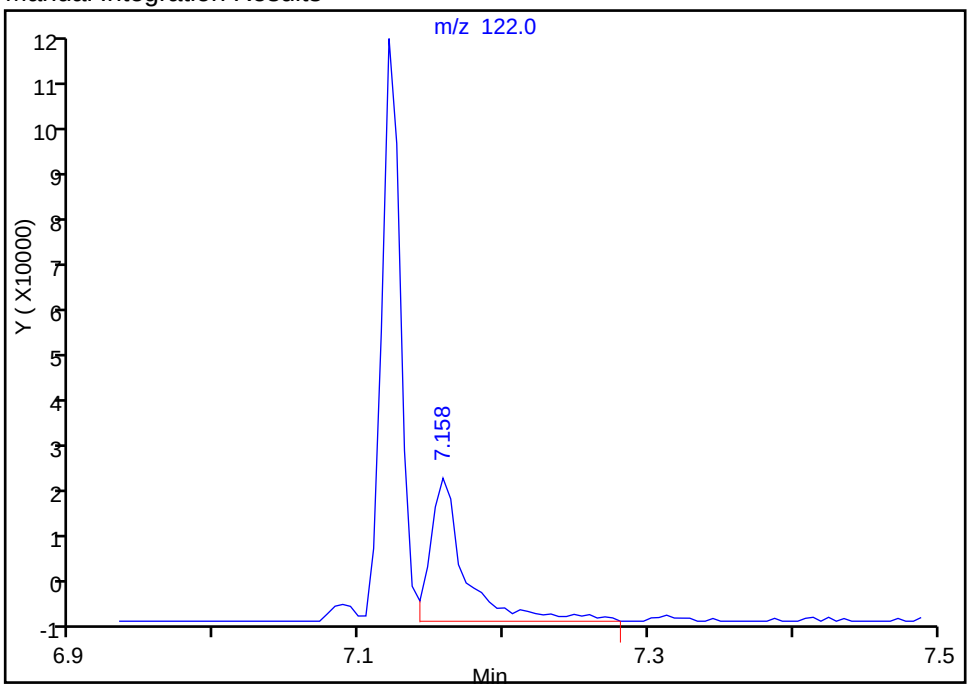
Processing Integration Results

RT: 7.16
Area: 40362
Amount: 3.463586
Amount Units: ng



Manual Integration Results

RT: 7.16
Area: 45351
Amount: 4.015151
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:50:34
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

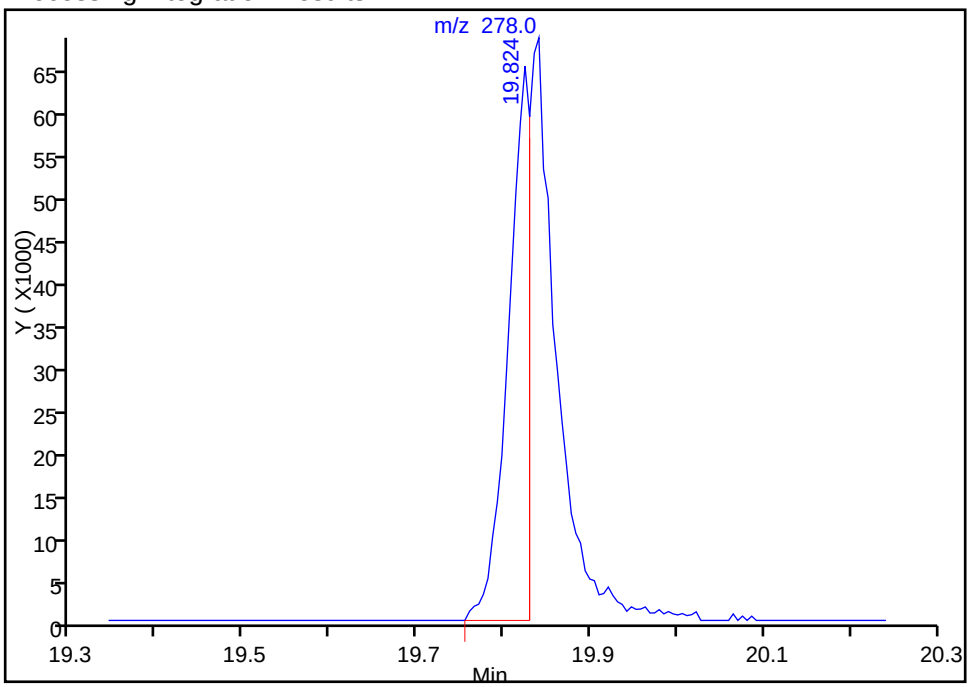
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203005.D				
Injection Date:	03-Feb-2015 06:46:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

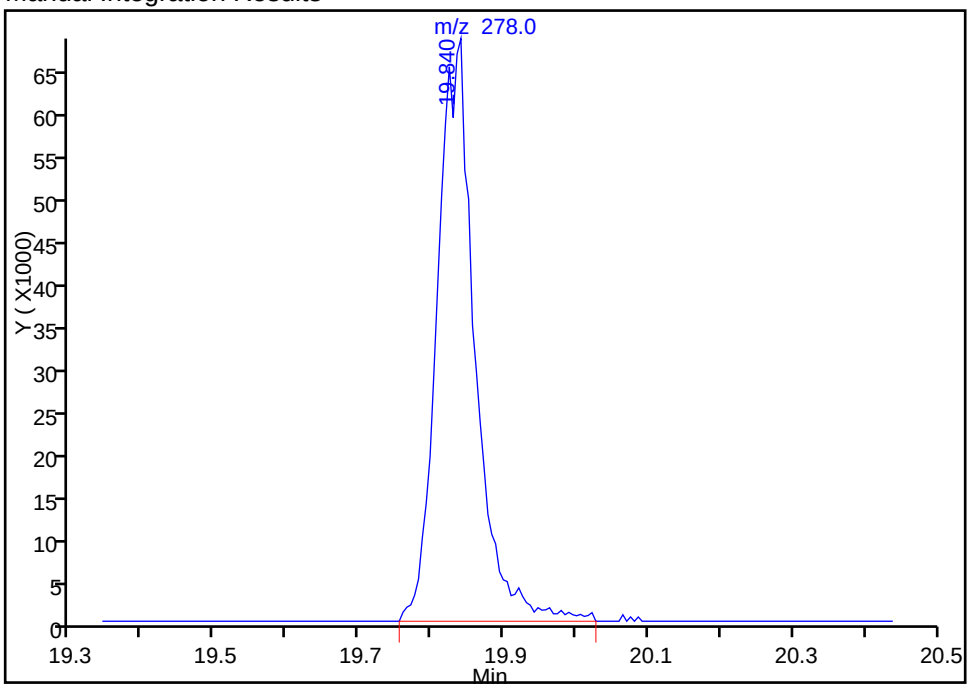
Processing Integration Results

RT: 19.82
Area: 114832
Amount: 2.067137
Amount Units: ng



Manual Integration Results

RT: 19.84
Area: 250943
Amount: 3.714140
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:50:34
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203006.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 03-Feb-2015 07:13:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0005518-006
Misc. Info.: ICIS
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 04-Feb-2015 06:41:10 Calib Date: 03-Feb-2015 09:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: piccolinov Date: 03-Feb-2015 08:43:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.175	6.175	0.000	97	135960	8.00	8.00	
* 2 Naphthalene-d8	136	7.473	7.473	0.000	100	593216	8.00	8.00	
* 3 Acenaphthene-d10	164	9.204	9.204	0.000	91	375917	8.00	8.00	
* 4 Phenanthrene-d10	188	10.662	10.662	0.000	91	654603	8.00	8.00	
* 5 Chrysene-d12	240	14.471	14.471	0.000	97	607262	8.00	8.00	
* 6 Perylene-d12	264	17.377	17.377	0.000	96	498112	8.00	8.00	
$ 7 2-Fluorophenol	112	4.695	4.695	0.000	88	179189	10.0	10.2	
$ 8 Phenol-d5	99	5.785	5.785	0.000	95	248370	10.0	10.5	
$ 9 Nitrobenzene-d5	82	6.741	6.741	0.000	90	255780	10.0	10.3	
$ 10 2-Fluorobiphenyl	172	8.525	8.525	0.000	99	618183	10.0	10.0	
$ 11 2,4,6-Tribromophenol	330	9.962	9.962	0.000	86	72581	10.0	10.1	
$ 12 Terphenyl-d14	244	12.617	12.617	0.000	98	668366	10.0	10.1	
13 1,4-Dioxane	88	1.511	1.511	0.000	90	55464	10.0	10.2	
14 N-Nitrosodimethylamine	74	2.077	2.077	0.000	75	74663	10.0	10.2	
15 Pyridine	79	2.157	2.157	0.000	91	131501	10.0	10.3	
21 Methyl methanesulfonate	80	4.438	4.438	0.000	90	105679	10.0	10.3	
25 Benzaldehyde	77	5.694	5.694	0.000	85	107077	10.0	9.33	
26 Phenol	94	5.801	5.801	0.000	95	270314	10.0	10.0	
27 Aniline	93	5.817	5.817	0.000	93	301857	10.0	10.1	
29 Bis(2-chloroethyl)ether	93	5.892	5.892	0.000	88	190003	10.0	9.98	
30 2-Chlorophenol	128	5.950	5.950	0.000	96	233051	10.0	10.1	
31 n-Decane	43	6.020	6.020	0.000	93	273969	10.0	10.1	
32 1,3-Dichlorobenzene	146	6.116	6.116	0.000	97	274959	10.0	10.3	
33 1,4-Dichlorobenzene	146	6.191	6.191	0.000	93	272903	10.0	9.92	
34 Benzyl alcohol	108	6.314	6.314	0.000	89	148867	10.0	10.3	
35 1,2-Dichlorobenzene	146	6.356	6.356	0.000	95	267807	10.0	10.0	
36 2-Methylphenol	108	6.431	6.431	0.000	97	207591	10.0	10.1	
37 Indene	116	6.447	6.447	0.000	85	379789	10.0	10.2	
38 2,2'-oxybis[1-chloropropan	45	6.463	6.463	0.000	89	413246	10.0	10.3	
39 N-Nitrosopyrrolidine	100	6.549	6.549	0.000	75	101195	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 4-Methylphenol	108	6.586	6.586	0.000	65	220366	10.0	10.5	
40 Acetophenone	105	6.586	6.586	0.000	79	317474	10.0	10.3	
41 N-Nitrosodi-n-propylamine	70	6.586	6.586	0.000	70	149121	10.0	10.3	
45 Hexachloroethane	117	6.709	6.709	0.000	96	119409	10.0	10.0	
46 Nitrobenzene	77	6.762	6.762	0.000	89	251361	10.0	10.2	
48 Isophorone	82	6.997	6.997	0.000	96	446570	10.0	10.3	
49 2-Nitrophenol	139	7.088	7.088	0.000	95	140596	10.0	10.3	
50 2,4-Dimethylphenol	107	7.120	7.120	0.000	82	262290	10.0	10.5	
52 Benzoic acid	122	7.168	7.168	0.000	84	103970	10.0	8.23	
53 Bis(2-chloroethoxy)methane	93	7.211	7.211	0.000	96	273809	10.0	10.2	
54 2,4-Dichlorophenol	162	7.323	7.323	0.000	95	225553	10.0	10.3	
56 1,2,4-Trichlorobenzene	180	7.414	7.414	0.000	93	259967	10.0	10.4	
58 Naphthalene	128	7.494	7.494	0.000	97	810769	10.0	10.1	
59 4-Chloroaniline	127	7.537	7.537	0.000	77	328724	10.0	10.2	
60 2,6-Dichlorophenol	162	7.553	7.553	0.000	94	224288	10.0	10.3	
62 Hexachlorobutadiene	225	7.622	7.622	0.000	80	151937	10.0	10.1	
64 Caprolactam	113	7.841	7.841	0.000	61	72011	10.0	9.86	
67 4-Chloro-3-methylphenol	107	8.002	8.002	0.000	92	231893	10.0	10.1	
69 2-Methylnaphthalene	142	8.178	8.178	0.000	82	582381	10.0	10.3	
71 1-Methylnaphthalene	142	8.274	8.274	0.000	82	540054	10.0	10.1	
72 Hexachlorocyclopentadiene	237	8.338	8.338	0.000	90	170705	10.0	10.4	
73 1,2,4,5-Tetrachlorobenzene	216	8.344	8.344	0.000	97	251697	10.0	10.3	
74 2,4,6-Trichlorophenol	196	8.445	8.445	0.000	95	172469	10.0	10.3	
75 2,4,5-Trichlorophenol	196	8.482	8.482	0.000	93	178301	10.0	10.1	
76 1,1'-Biphenyl	154	8.627	8.627	0.000	95	718467	10.0	10.2	
77 2-Chloronaphthalene	162	8.659	8.659	0.000	65	579154	10.0	10.1	
79 2-Nitroaniline	65	8.739	8.739	0.000	84	164804	10.0	10.1	
82 Dimethyl phthalate	163	8.899	8.899	0.000	98	594888	10.0	9.97	
83 1,3-Dinitrobenzene	168	8.937	8.937	0.000	84	93300	10.0	10.4	
84 2,6-Dinitrotoluene	165	8.963	8.963	0.000	72	134217	10.0	10.2	
85 Acenaphthylene	152	9.065	9.065	0.000	90	903822	10.0	9.95	
86 3-Nitroaniline	138	9.134	9.134	0.000	95	165063	10.0	10.3	
87 2,4-Dinitrophenol	184	9.230	9.230	0.000	54	159961	20.0	18.8	
88 Acenaphthene	153	9.236	9.236	0.000	88	576591	10.0	10.4	
89 4-Nitrophenol	109	9.273	9.273	0.000	80	181010	20.0	20.5	
91 2,4-Dinitrotoluene	165	9.359	9.359	0.000	89	177872	10.0	10.3	
93 Dibenzofuran	168	9.401	9.401	0.000	80	789696	10.0	9.92	
95 2,3,5,6-Tetrachlorophenol	232	9.471	9.471	0.000	91	154617	10.0	10.0	
96 2,3,4,6-Tetrachlorophenol	232	9.514	9.514	0.000	75	153842	10.0	10.2	
97 2-Naphthylamine	143	9.540	9.540	0.000	88	577092	10.0	10.2	
98 Diethyl phthalate	149	9.578	9.578	0.000	95	620434	10.0	10.2	
99 Hexadecane	57	9.588	9.588	0.000	91	473542	10.0	10.8	
100 4-Chlorophenyl phenyl ethe	204	9.711	9.711	0.000	95	292933	10.0	10.0	
101 4-Nitroaniline	138	9.722	9.722	0.000	77	165071	10.0	10.5	
103 Fluorene	166	9.733	9.733	0.000	80	630958	10.0	10.2	
104 4,6-Dinitro-2-methylphenol	198	9.754	9.754	0.000	55	207551	20.0	19.5	
105 N-Nitrosodiphenylamine	169	9.823	9.823	0.000	59	457506	10.0	9.84	
90 1,2-Diphenylhydrazine	77	9.866	9.866	0.000	99	668173	10.0	10.0	
110 4-Bromophenyl phenyl ether	248	10.192	10.192	0.000	62	172260	10.0	10.1	
112 Hexachlorobenzene	284	10.277	10.277	0.000	92	171081	10.0	10.0	
113 Atrazine	200	10.310	10.310	0.000	72	139931	10.0	10.4	
116 Pentachlorophenol	266	10.454	10.454	0.000	90	239474	20.0	19.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.470	10.470	0.000	89	513509	10.0	10.6	
121 Phenanthrene	178	10.689	10.689	0.000	97	958538	10.0	9.75	
122 Anthracene	178	10.742	10.742	0.000	97	989626	10.0	9.84	
124 Carbazole	167	10.897	10.897	0.000	82	866503	10.0	9.84	
126 Di-n-butyl phthalate	149	11.234	11.234	0.000	100	1093325	10.0	9.93	
57 Azobenzene	77		11.923				ND	ND	
131 Fluoranthene	202	12.110	12.110	0.000	98	959196	10.0	9.67	
132 Benzidine	184	12.254	12.254	0.000	97	327820	10.0	8.50	
133 Pyrene	202	12.441	12.441	0.000	97	987653	10.0	9.86	
138 Butyl benzyl phthalate	149	13.376	13.376	0.000	95	434962	10.0	9.77	
144 3,3'-Dichlorobenzidine	252	14.375	14.375	0.000	68	290343	10.0	9.91	
145 Bis(2-ethylhexyl) phthalat	149	14.434	14.434	0.000	96	625648	10.0	10.1	
146 Benzo[a]anthracene	228	14.450	14.450	0.000	98	877303	10.0	9.98	
147 Chrysene	228	14.519	14.519	0.000	93	832413	10.0	10.1	
150 Di-n-octyl phthalate	149	15.753	15.753	0.000	99	967260	10.0	10.0	
151 7,12-Dimethylbenz(a)anthra	256	16.581	16.581	0.000	74	345745	10.0	10.1	
152 Benzo[b]fluoranthene	252	16.597	16.597	0.000	95	800926	10.0	9.92	
153 Benzo[k]fluoranthene	252	16.656	16.656	0.000	98	808910	10.0	10.2	
219 Benzo[e]pyrene	252	17.158	17.158	0.000	0	735708	10.0	10.1	
154 Benzo[a]pyrene	252	17.265	17.265	0.000	75	735703	10.0	10.1	
157 Indeno[1,2,3-cd]pyrene	276	19.787	19.787	0.000	96	753684	10.0	9.85	
158 Dibenz(a,h)anthracene	278	19.824	19.824	0.000	1	626416	10.0	9.85	M
159 Benzo[g,h,i]perylene	276	20.481	20.481	0.000	87	628584	10.0	9.63	
S 197 Methyl Phenols,Total	108				0		20.0	20.6	
S 199 Total Cresols	108				0		20.0	20.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

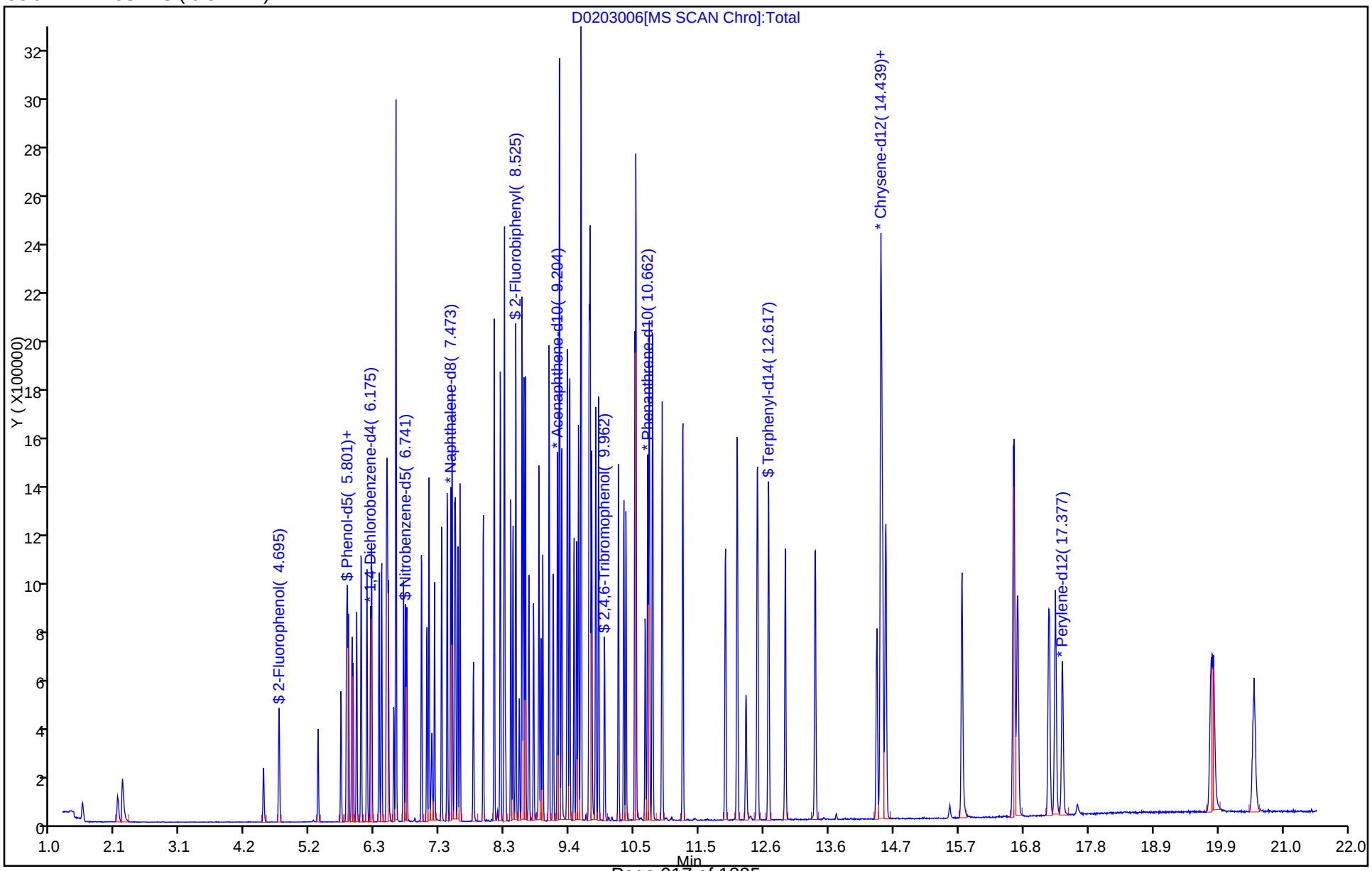
Reagents:

SVTAPSTD10i_00088 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2015 06:41:11 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203006.D				
Injection Date:	03-Feb-2015 07:13:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	ICIS			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column: Rxi-5SilMS (0.32 mm)					



Manual Integration/User Assign Peak Report

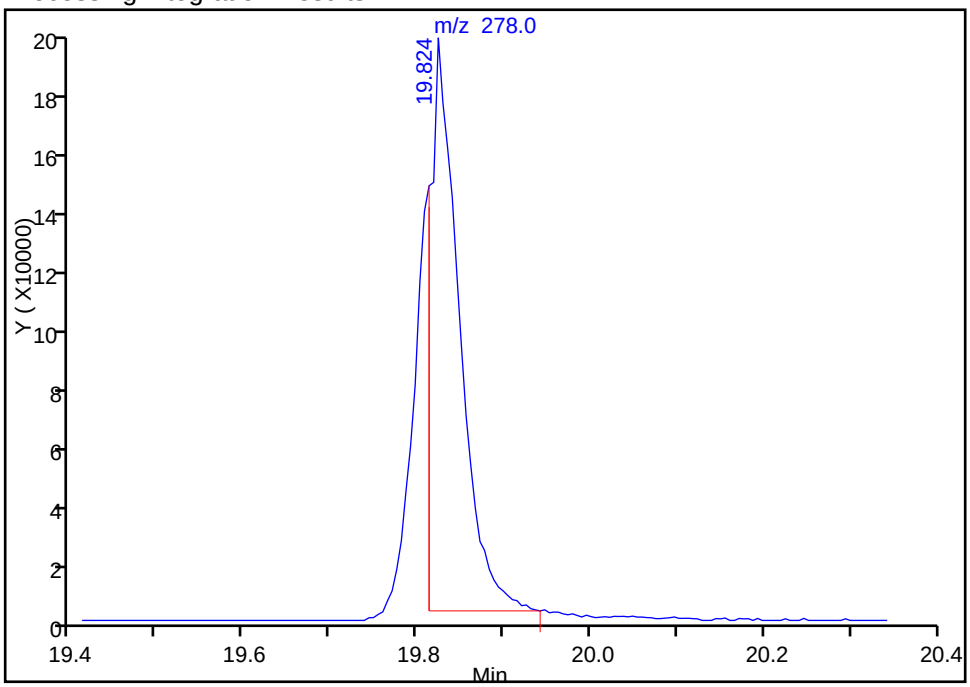
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203006.D				
Injection Date:	03-Feb-2015 07:13:30	Instrument ID:	CH732		
Lims ID:	ICIS				
Client ID:					
Operator ID:	003200	ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

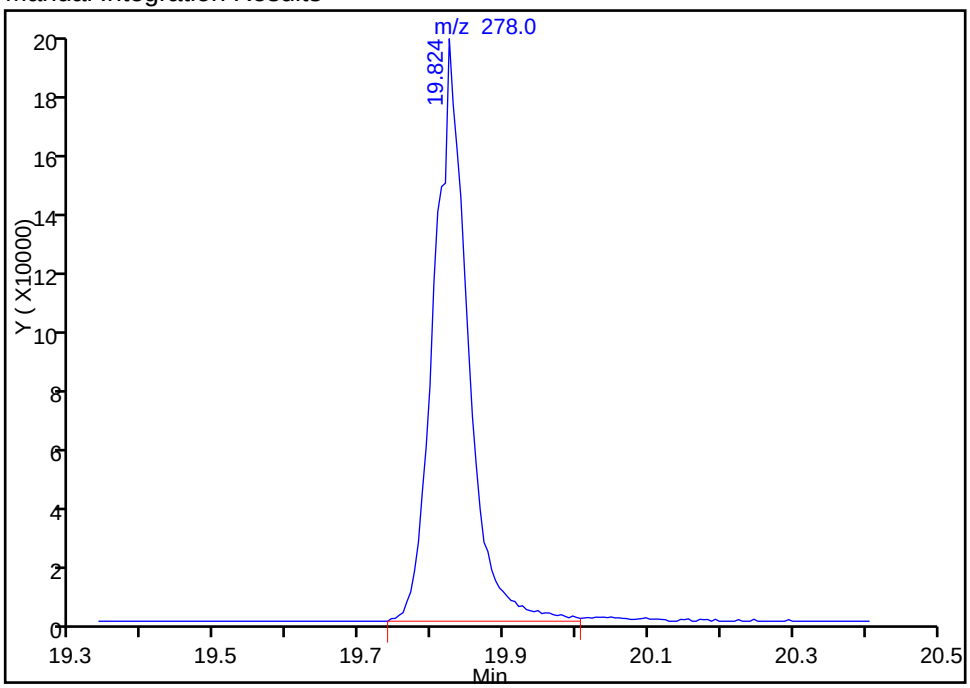
Processing Integration Results

RT: 19.82
Area: 437358
Amount: 7.588248
Amount Units: ng



Manual Integration Results

RT: 19.82
Area: 626416
Amount: 9.848310
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:51:49
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203007.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 03-Feb-2015 07:40:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0005518-007
Misc. Info.: IC
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 04-Feb-2015 06:41:16 Calib Date: 03-Feb-2015 09:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: piccolinov Date: 03-Feb-2015 08:52:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.180	6.175	0.005	97	137459	8.00	8.00	
* 2 Naphthalene-d8	136	7.478	7.473	0.005	100	591759	8.00	8.00	
* 3 Acenaphthene-d10	164	9.209	9.204	0.005	90	364487	8.00	8.00	
* 4 Phenanthrene-d10	188	10.668	10.662	0.006	83	626567	8.00	8.00	
* 5 Chrysene-d12	240	14.477	14.471	0.006	96	601321	8.00	8.00	
* 6 Perylene-d12	264	17.388	17.377	0.011	97	493170	8.00	8.00	
$ 7 2-Fluorophenol	112	4.706	4.695	0.011	90	350979	20.0	19.7	
$ 8 Phenol-d5	99	5.795	5.785	0.010	94	477417	20.0	19.9	
$ 9 Nitrobenzene-d5	82	6.746	6.741	0.005	93	498999	20.0	20.1	
$ 10 2-Fluorobiphenyl	172	8.531	8.525	0.006	100	1200667	20.0	20.1	
$ 11 2,4,6-Tribromophenol	330	9.968	9.962	0.006	86	139101	20.0	20.2	
$ 12 Terphenyl-d14	244	12.623	12.617	0.006	98	1302313	20.0	19.9	
13 1,4-Dioxane	88	1.532	1.511	0.021	91	109242	20.0	20.0	
14 N-Nitrosodimethylamine	74	2.104	2.077	0.027	75	147321	20.0	19.9	
15 Pyridine	79	2.173	2.157	0.016	92	264484	20.0	20.5	
21 Methyl methanesulfonate	80	4.449	4.438	0.011	90	203934	20.0	19.6	
25 Benzaldehyde	77	5.705	5.694	0.011	85	258918	20.0	22.3	
26 Phenol	94	5.806	5.801	0.005	95	537943	20.0	19.7	
27 Aniline	93	5.828	5.817	0.011	74	596247	20.0	19.8	
29 Bis(2-chloroethyl)ether	93	5.897	5.892	0.005	89	372868	20.0	19.4	
30 2-Chlorophenol	128	5.956	5.950	0.006	96	458905	20.0	19.7	
31 n-Decane	43	6.031	6.020	0.011	94	543602	20.0	19.9	
32 1,3-Dichlorobenzene	146	6.127	6.116	0.011	98	534786	20.0	19.7	
33 1,4-Dichlorobenzene	146	6.201	6.191	0.010	93	544982	20.0	19.6	
34 Benzyl alcohol	108	6.319	6.314	0.005	88	285603	20.0	19.5	
35 1,2-Dichlorobenzene	146	6.362	6.356	0.006	92	530899	20.0	19.6	
36 2-Methylphenol	108	6.442	6.431	0.011	96	398202	20.0	19.3	
37 Indene	116	6.453	6.447	0.006	85	734967	20.0	19.6	
38 2,2'-oxybis[1-chloropropan	45	6.469	6.463	0.006	86	790384	20.0	19.5	
39 N-Nitrosopyrrolidine	100	6.559	6.549	0.010	77	201336	20.0	20.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.591	6.586	0.005	65	285723	20.0	19.4	
40 Acetophenone	105	6.591	6.586	0.005	77	599792	20.0	19.2	
42 4-Methylphenol	108	6.597	6.586	0.011	69	420058	20.0	19.8	
45 Hexachloroethane	117	6.714	6.709	0.005	96	232849	20.0	19.3	
46 Nitrobenzene	77	6.768	6.762	0.006	92	498871	20.0	20.2	
48 Isophorone	82	7.008	6.997	0.011	95	860436	20.0	19.8	
49 2-Nitrophenol	139	7.094	7.088	0.006	96	280608	20.0	20.6	
50 2,4-Dimethylphenol	107	7.126	7.120	0.006	78	499190	20.0	20.0	
52 Benzoic acid	122	7.190	7.168	0.022	82	249876	20.0	17.9	
53 Bis(2-chloroethoxy)methane	93	7.217	7.211	0.006	90	519031	20.0	19.4	
54 2,4-Dichlorophenol	162	7.329	7.323	0.006	96	439198	20.0	20.2	
56 1,2,4-Trichlorobenzene	180	7.425	7.414	0.011	92	482199	20.0	19.3	
58 Naphthalene	128	7.500	7.494	0.006	97	1593857	20.0	19.9	
59 4-Chloroaniline	127	7.542	7.537	0.005	78	659764	20.0	20.6	
60 2,6-Dichlorophenol	162	7.558	7.553	0.005	96	440269	20.0	20.4	
62 Hexachlorobutadiene	225	7.628	7.622	0.006	76	293629	20.0	19.7	
64 Caprolactam	113	7.852	7.841	0.011	67	148052	20.0	20.3	
67 4-Chloro-3-methylphenol	107	8.007	8.002	0.005	92	450969	20.0	19.8	
69 2-Methylnaphthalene	142	8.183	8.178	0.005	86	1113976	20.0	19.7	
71 1-Methylnaphthalene	142	8.285	8.274	0.011	82	1037675	20.0	19.5	
72 Hexachlorocyclopentadiene	237	8.344	8.338	0.006	96	347500	20.0	21.9	
73 1,2,4,5-Tetrachlorobenzene	216	8.349	8.344	0.005	97	472692	20.0	19.9	
74 2,4,6-Trichlorophenol	196	8.451	8.445	0.006	95	326888	20.0	20.2	
75 2,4,5-Trichlorophenol	196	8.488	8.482	0.006	93	349406	20.0	20.3	
76 1,1'-Biphenyl	154	8.632	8.627	0.005	95	1360765	20.0	19.8	
77 2-Chloronaphthalene	162	8.664	8.659	0.005	65	1091984	20.0	19.7	
79 2-Nitroaniline	65	8.744	8.739	0.005	81	319101	20.0	20.2	
82 Dimethyl phthalate	163	8.910	8.899	0.011	99	1148510	20.0	19.8	
83 1,3-Dinitrobenzene	168	8.942	8.937	0.005	61	183786	20.0	21.1	
84 2,6-Dinitrotoluene	165	8.969	8.963	0.006	71	257767	20.0	20.3	
85 Acenaphthylene	152	9.070	9.065	0.005	91	1740013	20.0	19.7	
86 3-Nitroaniline	138	9.140	9.134	0.006	92	315804	20.0	20.4	
87 2,4-Dinitrophenol	184	9.236	9.230	0.006	59	339911	40.0	40.2	
88 Acenaphthene	153	9.241	9.236	0.005	87	1092870	20.0	20.3	
89 4-Nitrophenol	109	9.279	9.273	0.006	82	364939	40.0	42.6	
91 2,4-Dinitrotoluene	165	9.364	9.359	0.005	89	347851	20.0	20.8	
93 Dibenzofuran	168	9.407	9.401	0.006	80	1536391	20.0	19.9	
95 2,3,5,6-Tetrachlorophenol	232	9.476	9.471	0.005	92	310668	20.0	20.8	
96 2,3,4,6-Tetrachlorophenol	232	9.519	9.514	0.005	73	305329	20.0	20.8	
97 2-Naphthylamine	143	9.551	9.540	0.011	88	1110540	20.0	20.2	
98 Diethyl phthalate	149	9.583	9.578	0.005	97	1198085	20.0	20.3	
99 Hexadecane	57	9.594	9.588	0.006	91	907979	20.0	20.8	
100 4-Chlorophenyl phenyl ethe	204	9.717	9.711	0.006	97	563422	20.0	19.9	
101 4-Nitroaniline	138	9.733	9.722	0.011	65	323357	20.0	21.2	
103 Fluorene	166	9.738	9.733	0.005	80	1206930	20.0	20.1	
104 4,6-Dinitro-2-methylphenol	198	9.759	9.754	0.005	52	426277	40.0	41.9	
105 N-Nitrosodiphenylamine	169	9.829	9.823	0.006	63	873779	20.0	19.6	
90 1,2-Diphenylhydrazine	77	9.872	9.866	0.006	99	1276008	20.0	20.0	
110 4-Bromophenyl phenyl ether	248	10.192	10.192	0.000	67	334279	20.0	20.4	
112 Hexachlorobenzene	284	10.283	10.277	0.006	92	326768	20.0	20.0	
113 Atrazine	200	10.320	10.310	0.010	75	272565	20.0	21.1	
116 Pentachlorophenol	266	10.459	10.454	0.005	89	467256	40.0	40.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.475	10.470	0.005	90	971090	20.0	19.8	
121 Phenanthrene	178	10.694	10.689	0.005	96	1856746	20.0	19.7	
122 Anthracene	178	10.748	10.742	0.006	97	1936292	20.0	20.1	
124 Carbazole	167	10.903	10.897	0.006	82	1707133	20.0	20.3	
126 Di-n-butyl phthalate	149	11.234	11.234	0.000	99	2153696	20.0	20.4	
57 Azobenzene	77		11.923				ND	ND	
131 Fluoranthene	202	12.121	12.110	0.011	97	1919281	20.0	20.2	
132 Benzidine	184	12.265	12.254	0.011	99	826654	20.0	19.6	
133 Pyrene	202	12.447	12.441	0.006	97	1948062	20.0	19.6	
138 Butyl benzyl phthalate	149	13.381	13.376	0.005	97	886116	20.0	20.1	
144 3,3'-Dichlorobenzidine	252	14.380	14.375	0.005	71	569808	20.0	19.6	
145 Bis(2-ethylhexyl) phthalat	149	14.439	14.434	0.005	96	1221960	20.0	20.0	
146 Benzo[a]anthracene	228	14.455	14.450	0.005	97	1725874	20.0	19.8	
147 Chrysene	228	14.525	14.519	0.006	94	1616774	20.0	19.7	
150 Di-n-octyl phthalate	149	15.764	15.753	0.011	99	1974782	20.0	20.6	
151 7,12-Dimethylbenz(a)anthra	256	16.597	16.581	0.016	68	686009	20.0	20.2	
152 Benzo[b]fluoranthene	252	16.614	16.597	0.017	93	1651159	20.0	20.7	
153 Benzo[k]fluoranthene	252	16.662	16.656	0.006	95	1577594	20.0	20.1	
219 Benzo[e]pyrene	252	17.174	17.158	0.016	0	1453734	20.0	20.2	
154 Benzo[a]pyrene	252	17.276	17.265	0.011	75	1444557	20.0	20.1	
157 Indeno[1,2,3-cd]pyrene	276	19.808	19.787	0.021	96	1506352	20.0	19.9	
158 Dibenz(a,h)anthracene	278	19.840	19.824	0.016	66	1244003	20.0	19.8	
159 Benzo[g,h,i]perylene	276	20.497	20.481	0.016	88	1266587	20.0	19.6	
S 199 Total Cresols	108				0		40.0	39.0	
S 197 Methyl Phenols,Total	108				0		40.0	39.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SVTAPSTD20i_00005 Amount Added: 1.00 Units: mL

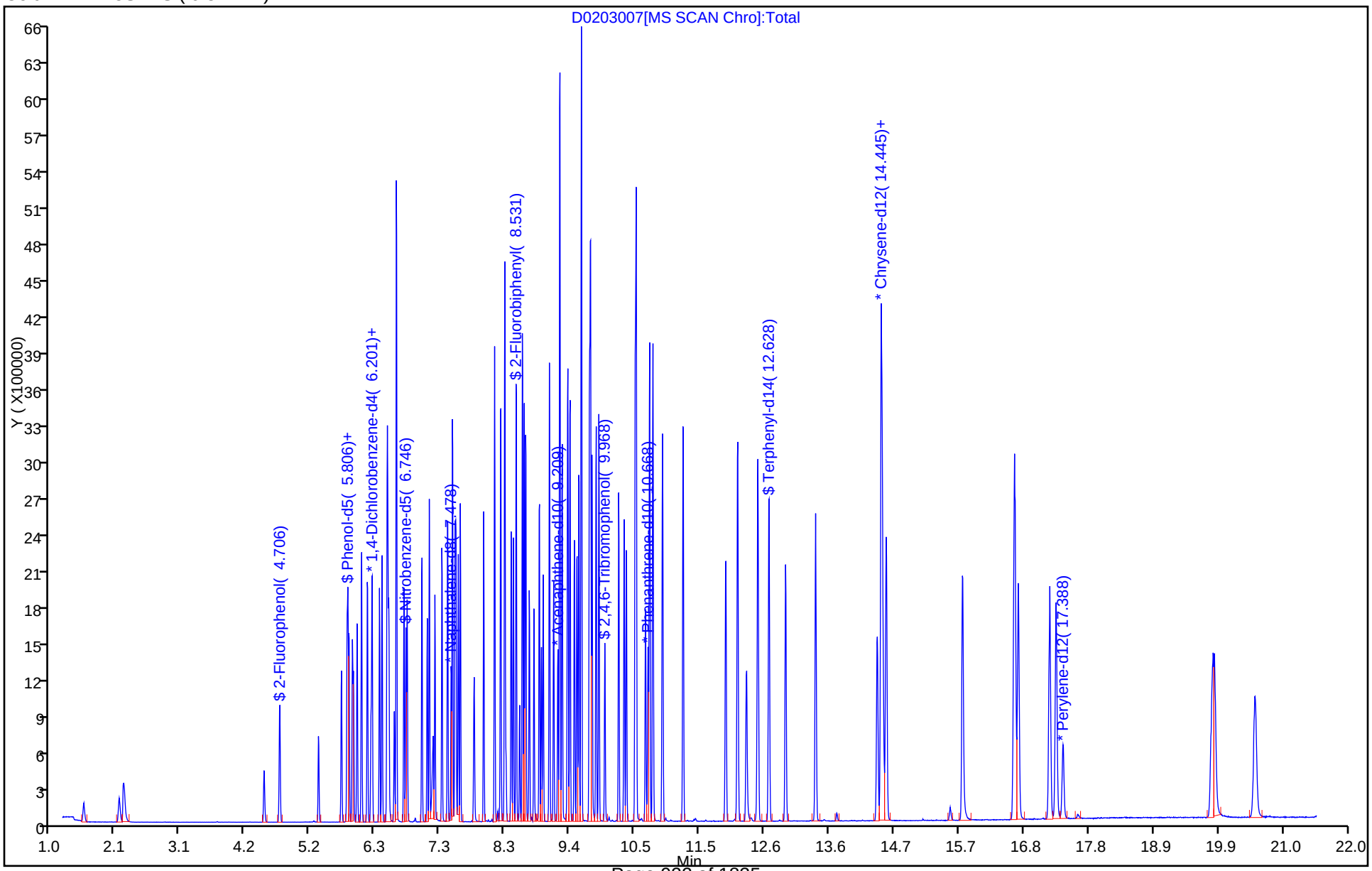
Report Date: 04-Feb-2015 06:41:16 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203007.D

Injection Date:	03-Feb-2015 07:40:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 03-Feb-2015 08:07:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0005518-008
Misc. Info.: IC
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 04-Feb-2015 06:41:24 Calib Date: 03-Feb-2015 09:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: piccolinov Date: 03-Feb-2015 08:58:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.175	6.175	0.000	97	129608	8.00	8.00	
* 2 Naphthalene-d8	136	7.478	7.473	0.005	100	556151	8.00	8.00	
* 3 Acenaphthene-d10	164	9.204	9.204	0.000	92	332955	8.00	8.00	
* 4 Phenanthrene-d10	188	10.668	10.662	0.006	73	567011	8.00	8.00	
* 5 Chrysene-d12	240	14.477	14.471	0.006	88	538430	8.00	8.00	
* 6 Perylene-d12	264	17.388	17.377	0.011	96	454484	8.00	8.00	
$ 7 2-Fluorophenol	112	4.695	4.695	0.000	91	677215	40.0	40.3	
$ 8 Phenol-d5	99	5.790	5.785	0.005	95	914976	40.0	40.4	
$ 9 Nitrobenzene-d5	82	6.746	6.741	0.005	92	946397	40.0	40.5	
$ 10 2-Fluorobiphenyl	172	8.531	8.525	0.006	98	2225410	40.0	40.7	
$ 11 2,4,6-Tribromophenol	330	9.968	9.962	0.006	88	271556	40.0	43.6	
$ 12 Terphenyl-d14	244	12.628	12.617	0.011	98	2388667	40.0	40.8	
13 1,4-Dioxane	88	1.506	1.511	-0.005	93	209470	40.0	40.6	
14 N-Nitrosodimethylamine	74	2.077	2.077	0.000	76	284868	40.0	40.8	
15 Pyridine	79	2.147	2.157	-0.010	93	507054	40.0	41.7	
21 Methyl methanesulfonate	80	4.439	4.438	0.001	91	385315	40.0	39.2	
25 Benzaldehyde	77	5.699	5.694	0.005	87	517593	40.0	47.3	
26 Phenol	94	5.806	5.801	0.005	94	1005636	40.0	39.1	
27 Aniline	93	5.822	5.817	0.005	64	1146158	40.0	40.3	
29 Bis(2-chloroethyl)ether	93	5.897	5.892	0.005	90	701627	40.0	38.7	
30 2-Chlorophenol	128	5.950	5.950	0.000	97	887214	40.0	40.4	
31 n-Decane	43	6.025	6.020	0.005	93	996855	40.0	38.7	
32 1,3-Dichlorobenzene	146	6.121	6.116	0.005	98	1034697	40.0	40.5	
33 1,4-Dichlorobenzene	146	6.196	6.191	0.005	94	1041084	40.0	39.7	
34 Benzyl alcohol	108	6.319	6.314	0.005	89	548480	40.0	39.7	
35 1,2-Dichlorobenzene	146	6.356	6.356	0.000	92	1006967	40.0	39.5	
36 2-Methylphenol	108	6.442	6.431	0.011	88	763283	40.0	39.1	
37 Indene	116	6.447	6.447	0.000	84	1386687	40.0	39.2	
38 2,2'-oxybis[1-chloropropan	45	6.469	6.463	0.006	90	1466380	40.0	38.4	
39 N-Nitrosopyrrolidine	100	6.559	6.549	0.010	78	381909	40.0	40.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.592	6.586	0.006	63	514816	40.0	37.2	
40 Acetophenone	105	6.592	6.586	0.006	79	1115856	40.0	37.9	
42 4-Methylphenol	108	6.592	6.586	0.006	69	767791	40.0	38.3	
45 Hexachloroethane	117	6.709	6.709	0.000	97	444909	40.0	39.2	
46 Nitrobenzene	77	6.768	6.762	0.006	88	927641	40.0	40.0	
48 Isophorone	82	7.003	6.997	0.006	96	1633037	40.0	40.0	
49 2-Nitrophenol	139	7.088	7.088	0.000	96	529004	40.0	41.3	
50 2,4-Dimethylphenol	107	7.126	7.120	0.006	57	931124	40.0	39.8	
52 Benzoic acid	122	7.206	7.168	0.038	72	552644	40.0	40.4	
53 Bis(2-chloroethoxy)methane	93	7.217	7.211	0.006	96	989031	40.0	39.4	
54 2,4-Dichlorophenol	162	7.329	7.323	0.006	95	820358	40.0	40.1	
56 1,2,4-Trichlorobenzene	180	7.420	7.414	0.006	94	930596	40.0	39.7	
58 Naphthalene	128	7.500	7.494	0.006	97	2959547	40.0	39.3	
59 4-Chloroaniline	127	7.542	7.537	0.005	74	1214856	40.0	40.3	
60 2,6-Dichlorophenol	162	7.553	7.553	0.000	95	812683	40.0	40.0	
62 Hexachlorobutadiene	225	7.628	7.622	0.006	55	547750	40.0	39.0	
64 Caprolactam	113	7.858	7.841	0.017	71	274556	40.0	40.1	
67 4-Chloro-3-methylphenol	107	8.007	8.002	0.005	95	843095	40.0	39.3	
69 2-Methylnaphthalene	142	8.183	8.178	0.005	87	2117761	40.0	39.8	
71 1-Methylnaphthalene	142	8.280	8.274	0.006	83	1972940	40.0	39.5	
72 Hexachlorocyclopentadiene	237	8.344	8.338	0.006	95	644566	40.0	44.5	
73 1,2,4,5-Tetrachlorobenzene	216	8.349	8.344	0.005	98	858550	40.0	39.6	
74 2,4,6-Trichlorophenol	196	8.451	8.445	0.006	94	603497	40.0	40.8	
75 2,4,5-Trichlorophenol	196	8.488	8.482	0.006	93	648683	40.0	41.3	
76 1,1'-Biphenyl	154	8.632	8.627	0.005	94	2580419	40.0	41.2	
77 2-Chloronaphthalene	162	8.659	8.659	0.000	78	2127629	40.0	41.9	
79 2-Nitroaniline	65	8.744	8.739	0.005	84	600873	40.0	41.7	
82 Dimethyl phthalate	163	8.905	8.899	0.006	98	2163658	40.0	40.9	
83 1,3-Dinitrobenzene	168	8.942	8.937	0.005	62	348418	40.0	43.8	
84 2,6-Dinitrotoluene	165	8.969	8.963	0.006	67	484496	40.0	41.7	
85 Acenaphthylene	152	9.070	9.065	0.005	91	3284115	40.0	40.8	
86 3-Nitroaniline	138	9.140	9.134	0.006	94	590172	40.0	41.8	
87 2,4-Dinitrophenol	184	9.236	9.230	0.006	64	655440	80.0	84.1	
88 Acenaphthene	153	9.241	9.236	0.005	87	1938543	40.0	39.4	
89 4-Nitrophenol	109	9.279	9.273	0.006	81	682381	80.0	87.3	
91 2,4-Dinitrotoluene	165	9.364	9.359	0.005	89	635934	40.0	41.7	
93 Dibenzofuran	168	9.402	9.401	0.001	70	2825768	40.0	40.1	
95 2,3,5,6-Tetrachlorophenol	232	9.476	9.471	0.005	89	586262	40.0	42.9	
96 2,3,4,6-Tetrachlorophenol	232	9.519	9.514	0.005	73	554584	40.0	41.4	
97 2-Naphthylamine	143	9.546	9.540	0.006	92	2095491	40.0	41.7	
98 Diethyl phthalate	149	9.583	9.578	0.005	96	2158069	40.0	40.0	
99 Hexadecane	57	9.588	9.588	0.000	86	1573793	40.0	38.4	
100 4-Chlorophenyl phenyl ethe	204	9.717	9.711	0.006	95	1044305	40.0	40.4	
101 4-Nitroaniline	138	9.733	9.722	0.011	62	567688	40.0	40.7	
103 Fluorene	166	9.738	9.733	0.005	83	2206480	40.0	40.2	
104 4,6-Dinitro-2-methylphenol	198	9.765	9.754	0.011	57	811928	80.0	88.1	
105 N-Nitrosodiphenylamine	169	9.829	9.823	0.006	59	1656272	40.0	41.1	
90 1,2-Diphenylhydrazine	77	9.872	9.866	0.006	99	2389339	40.0	41.4	
110 4-Bromophenyl phenyl ether	248	10.192	10.192	0.000	65	599814	40.0	40.5	
112 Hexachlorobenzene	284	10.283	10.277	0.006	94	604183	40.0	40.8	
113 Atrazine	200	10.320	10.310	0.010	80	482114	40.0	41.2	
116 Pentachlorophenol	266	10.459	10.454	0.005	90	891131	80.0	85.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.475	10.470	0.005	91	1800945	40.0	39.0	
121 Phenanthrene	178	10.694	10.689	0.005	96	3446256	40.0	40.5	
122 Anthracene	178	10.748	10.742	0.006	96	3570591	40.0	41.0	
124 Carbazole	167	10.903	10.897	0.006	82	3091224	40.0	40.5	
126 Di-n-butyl phthalate	149	11.234	11.234	0.000	99	3976938	40.0	41.7	
57 Azobenzene	77		11.923				ND	ND	
131 Fluoranthene	202	12.121	12.110	0.011	97	3533786	40.0	41.1	
132 Benzidine	184	12.260	12.254	0.006	99	1638838	40.0	41.8	
133 Pyrene	202	12.447	12.441	0.006	98	3720835	40.0	41.9	
138 Butyl benzyl phthalate	149	13.381	13.376	0.005	97	1660263	40.0	42.1	
144 3,3'-Dichlorobenzidine	252	14.380	14.375	0.005	66	1133566	40.0	43.6	
145 Bis(2-ethylhexyl) phthalat	149	14.439	14.434	0.005	96	2358686	40.0	43.2	
146 Benzo[a]anthracene	228	14.455	14.450	0.005	98	3153612	40.0	40.5	
147 Chrysene	228	14.525	14.519	0.006	94	3022852	40.0	41.2	
150 Di-n-octyl phthalate	149	15.759	15.753	0.006	99	3924029	40.0	44.4	
151 7,12-Dimethylbenz(a)anthra	256	16.598	16.581	0.017	69	1345948	40.0	42.9	
152 Benzo[b]fluoranthene	252	16.614	16.597	0.017	96	3082246	40.0	41.8	
153 Benzo[k]fluoranthene	252	16.667	16.656	0.011	95	2967704	40.0	41.1	
219 Benzo[e]pyrene	252	17.180	17.158	0.022	0	2742921	40.0	41.3	
154 Benzo[a]pyrene	252	17.276	17.265	0.011	74	2810546	40.0	42.3	
157 Indeno[1,2,3-cd]pyrene	276	19.819	19.787	0.032	93	3015474	40.0	43.2	M
158 Dibenz(a,h)anthracene	278	19.840	19.824	0.016	77	2507561	40.0	43.2	
159 Benzo[g,h,i]perylene	276	20.508	20.481	0.027	91	2553190	40.0	42.9	
S 197 Methyl Phenols,Total	108				0		80.0	77.5	
S 199 Total Cresols	108				0		80.0	77.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

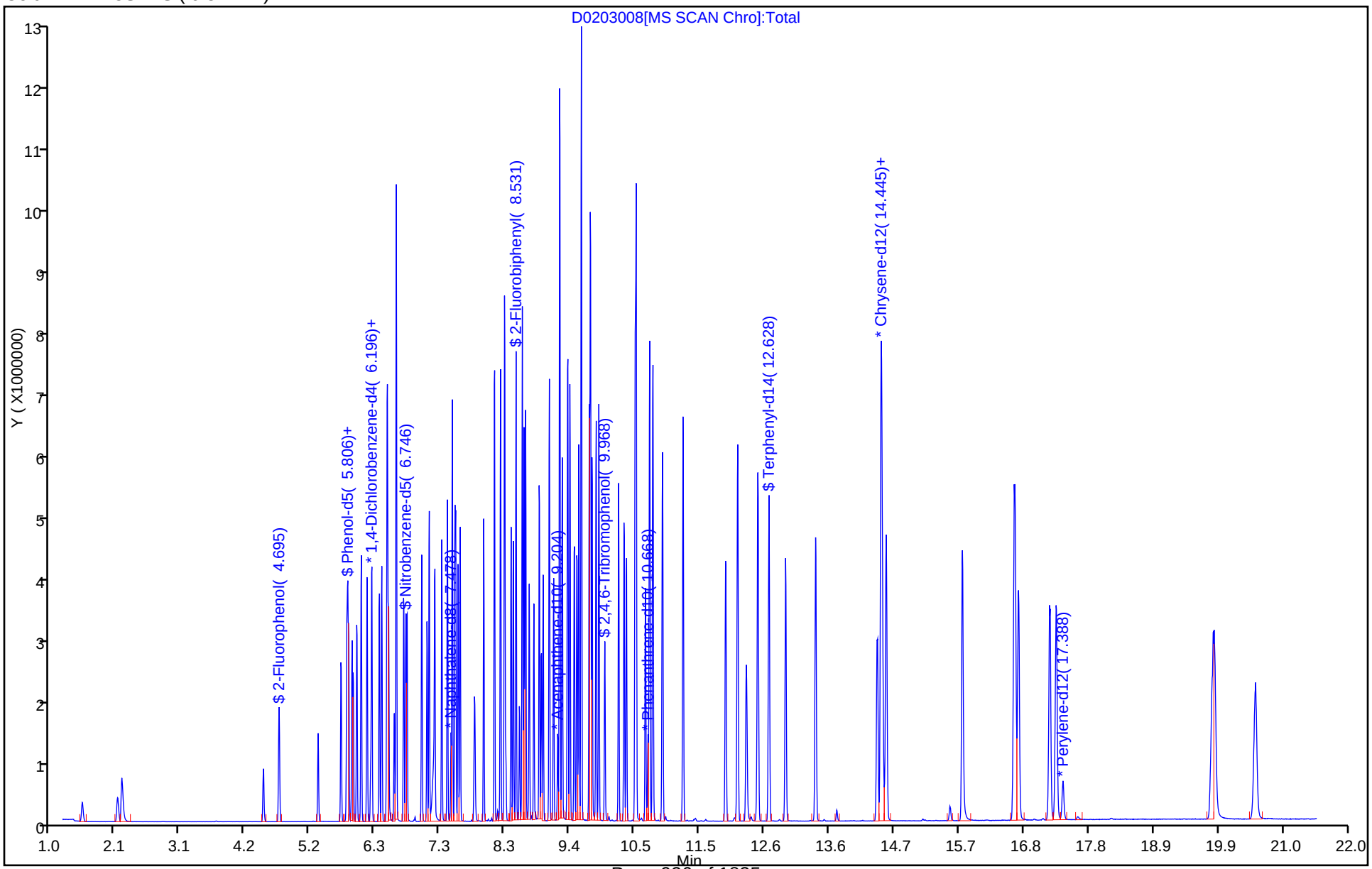
SVTAPSTD40i_00005 Amount Added: 1.00 Units: mL

Report Date: 04-Feb-2015 06:41:25 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203008.D				
Injection Date:	03-Feb-2015 08:07:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

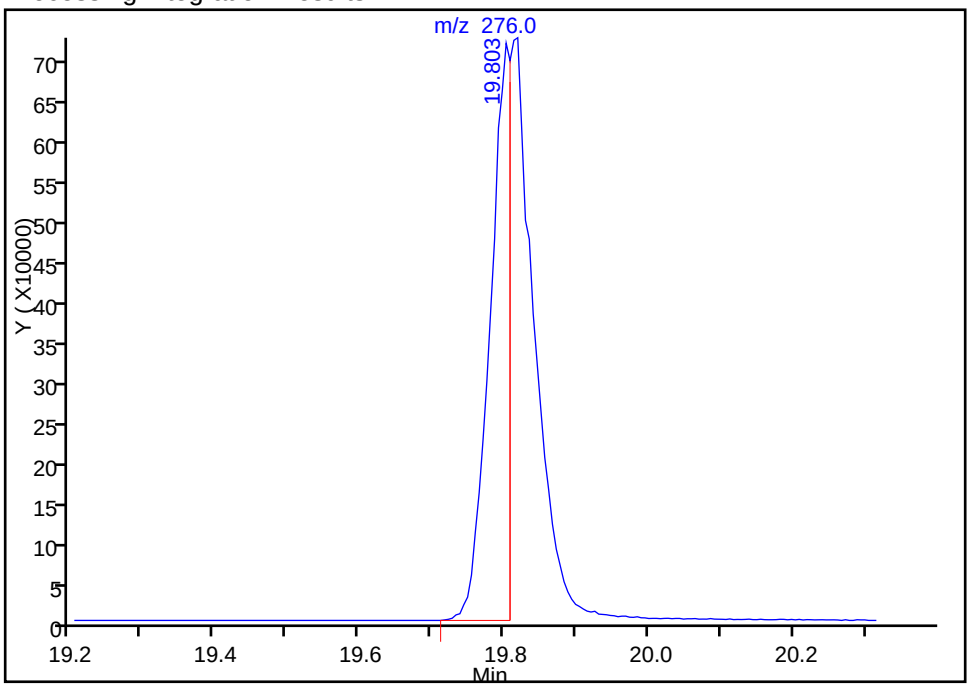
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203008.D				
Injection Date:	03-Feb-2015 08:07:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	7	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

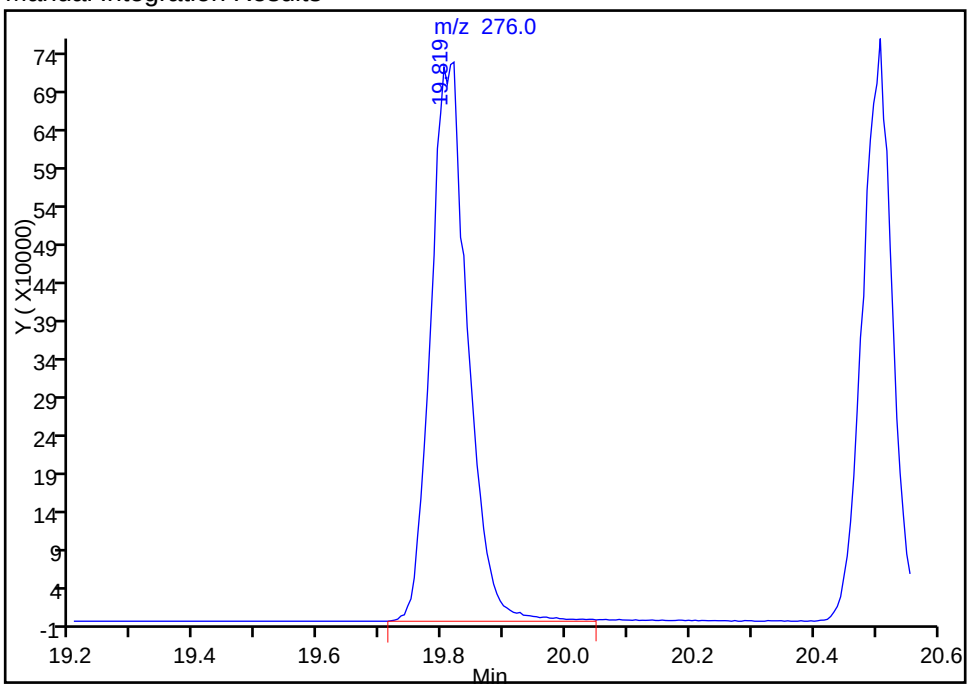
Processing Integration Results

RT: 19.80
Area: 1433224
Amount: 23.954611
Amount Units: ng



Manual Integration Results

RT: 19.82
Area: 3015474
Amount: 43.196305
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:58:16
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 03-Feb-2015 08:33:30 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0005518-009
Misc. Info.: IC
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 04-Feb-2015 06:41:31 Calib Date: 03-Feb-2015 09:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: piccolinov Date: 03-Feb-2015 08:59:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.175	6.175	0.000	97	126365	8.00	8.00	
* 2 Naphthalene-d8	136	7.478	7.473	0.005	100	546713	8.00	8.00	
* 3 Acenaphthene-d10	164	9.209	9.204	0.005	91	337620	8.00	8.00	
* 4 Phenanthrene-d10	188	10.667	10.662	0.005	73	560871	8.00	8.00	
* 5 Chrysene-d12	240	14.482	14.471	0.011	66	543659	8.00	8.00	
* 6 Perylene-d12	264	17.393	17.377	0.016	95	455236	8.00	8.00	
$ 7 2-Fluorophenol	112	4.689	4.695	-0.006	91	987546	60.0	60.3	
$ 8 Phenol-d5	99	5.790	5.785	0.005	96	1296709	60.0	58.8	
$ 9 Nitrobenzene-d5	82	6.746	6.741	0.005	90	1393487	60.0	60.7	
$ 10 2-Fluorobiphenyl	172	8.531	8.525	0.006	93	3243372	60.0	58.5	
$ 11 2,4,6-Tribromophenol	330	9.973	9.962	0.011	91	402216	60.0	65.2	
$ 12 Terphenyl-d14	244	12.628	12.617	0.011	98	3583724	60.0	60.6	
13 1,4-Dioxane	88	1.500	1.511	-0.011	93	302556	60.0	60.1	
14 N-Nitrosodimethylamine	74	2.077	2.077	0.000	78	415506	60.0	61.1	
15 Pyridine	79	2.141	2.157	-0.016	90	740621	60.0	62.4	
21 Methyl methanesulfonate	80	4.438	4.438	0.000	90	562394	60.0	58.8	
25 Benzaldehyde	77	5.699	5.694	0.005	86	682953	60.0	64.0	
26 Phenol	94	5.806	5.801	0.005	94	1423572	60.0	56.8	
27 Aniline	93	5.822	5.817	0.005	74	1627756	60.0	58.7	
29 Bis(2-chloroethyl)ether	93	5.897	5.892	0.005	91	1010724	60.0	57.1	
30 2-Chlorophenol	128	5.956	5.950	0.006	96	1264905	60.0	59.1	
31 n-Decane	43	6.025	6.020	0.005	92	1358551	60.0	54.1	
32 1,3-Dichlorobenzene	146	6.116	6.116	0.000	97	1463480	60.0	58.7	
33 1,4-Dichlorobenzene	146	6.196	6.191	0.005	94	1517829	60.0	59.3	
34 Benzyl alcohol	108	6.319	6.314	0.005	88	798172	60.0	59.3	
35 1,2-Dichlorobenzene	146	6.356	6.356	0.000	90	1438910	60.0	57.9	
36 2-Methylphenol	108	6.442	6.431	0.011	86	1091611	60.0	57.4	
37 Indene	116	6.447	6.447	0.000	84	1998319	60.0	57.9	
38 2,2'-oxybis[1-chloropropan	45	6.468	6.463	0.005	91	2093118	60.0	56.2	
39 N-Nitrosopyrrolidine	100	6.565	6.549	0.016	78	557274	60.0	60.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.591	6.586	0.005	45	713290	60.0	52.8	
40 Acetophenone	105	6.591	6.586	0.005	81	1552275	60.0	54.1	
42 4-Methylphenol	108	6.597	6.586	0.011	75	1079768	60.0	55.3	
45 Hexachloroethane	117	6.714	6.709	0.005	96	646511	60.0	58.4	
46 Nitrobenzene	77	6.768	6.762	0.006	92	1350399	60.0	59.3	
48 Isophorone	82	7.003	6.997	0.006	96	2371427	60.0	59.1	
49 2-Nitrophenol	139	7.093	7.088	0.005	95	780171	60.0	61.9	
50 2,4-Dimethylphenol	107	7.126	7.120	0.006	57	1373726	60.0	59.7	
52 Benzoic acid	122	7.227	7.168	0.059	84	833727	60.0	61.2	
53 Bis(2-chloroethoxy)methane	93	7.216	7.211	0.005	97	1424492	60.0	57.7	
54 2,4-Dichlorophenol	162	7.329	7.323	0.005	95	1186303	60.0	59.0	
56 1,2,4-Trichlorobenzene	180	7.419	7.414	0.005	91	1339792	60.0	58.1	
58 Naphthalene	128	7.499	7.494	0.005	97	4378054	60.0	59.2	
59 4-Chloroaniline	127	7.542	7.537	0.005	78	1748750	60.0	59.0	
60 2,6-Dichlorophenol	162	7.558	7.553	0.005	97	1158271	60.0	58.0	
62 Hexachlorobutadiene	225	7.628	7.622	0.006	54	801613	60.0	58.1	
64 Caprolactam	113	7.868	7.841	0.027	70	412304	60.0	61.2	
67 4-Chloro-3-methylphenol	107	8.012	8.002	0.010	96	1234208	60.0	58.5	
69 2-Methylnaphthalene	142	8.183	8.178	0.005	87	3038002	60.0	58.1	
71 1-Methylnaphthalene	142	8.279	8.274	0.005	90	2847445	60.0	58.1	
72 Hexachlorocyclopentadiene	237	8.344	8.338	0.006	96	941368	60.0	64.1	
73 1,2,4,5-Tetrachlorobenzene	216	8.349	8.344	0.005	97	1226308	60.0	55.7	
74 2,4,6-Trichlorophenol	196	8.456	8.445	0.011	93	889199	60.0	59.2	
75 2,4,5-Trichlorophenol	196	8.493	8.482	0.011	95	950450	60.0	59.7	
76 1,1'-Biphenyl	154	8.632	8.627	0.005	94	3711661	60.0	58.4	
77 2-Chloronaphthalene	162	8.664	8.659	0.005	65	2950139	60.0	57.3	
79 2-Nitroaniline	65	8.744	8.739	0.005	83	861359	60.0	58.9	
82 Dimethyl phthalate	163	8.910	8.899	0.011	98	3099106	60.0	57.8	
83 1,3-Dinitrobenzene	168	8.942	8.937	0.005	60	516502	60.0	64.0	
84 2,6-Dinitrotoluene	165	8.974	8.963	0.011	71	692489	60.0	58.8	
85 Acenaphthylene	152	9.070	9.065	0.005	91	4912276	60.0	60.2	
86 3-Nitroaniline	138	9.140	9.134	0.006	92	878098	60.0	61.3	
87 2,4-Dinitrophenol	184	9.241	9.230	0.011	64	953848	120.0	120.4	
88 Acenaphthene	153	9.241	9.236	0.005	86	2755493	60.0	55.3	
89 4-Nitrophenol	109	9.284	9.273	0.011	55	1007845	120.0	127.1	
91 2,4-Dinitrotoluene	165	9.364	9.359	0.005	87	912905	60.0	59.0	
93 Dibenzofuran	168	9.407	9.401	0.006	80	4232923	60.0	59.2	
95 2,3,5,6-Tetrachlorophenol	232	9.476	9.471	0.005	89	863773	60.0	62.3	
96 2,3,4,6-Tetrachlorophenol	232	9.519	9.514	0.005	75	824302	60.0	60.7	
97 2-Naphthylamine	143	9.551	9.540	0.011	88	3057555	60.0	60.0	
98 Diethyl phthalate	149	9.588	9.578	0.010	96	3095548	60.0	56.5	
99 Hexadecane	57	9.594	9.588	0.006	91	2091830	60.0	51.9	
100 4-Chlorophenyl phenyl ethe	204	9.716	9.711	0.005	97	1529802	60.0	58.3	
101 4-Nitroaniline	138	9.738	9.722	0.016	57	852366	60.0	60.3	
103 Fluorene	166	9.738	9.733	0.005	79	3180401	60.0	57.2	
104 4,6-Dinitro-2-methylphenol	198	9.765	9.754	0.011	63	1229972	120.0	134.9	
105 N-Nitrosodiphenylamine	169	9.829	9.823	0.006	60	2429181	60.0	61.0	
90 1,2-Diphenylhydrazine	77	9.877	9.866	0.011	99	3415954	60.0	59.8	
110 4-Bromophenyl phenyl ether	248	10.197	10.192	0.005	62	889331	60.0	60.7	
112 Hexachlorobenzene	284	10.283	10.277	0.006	93	891428	60.0	60.9	
113 Atrazine	200	10.320	10.310	0.010	73	711536	60.0	61.5	
116 Pentachlorophenol	266	10.464	10.454	0.010	91	1304271	120.0	126.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.480	10.470	0.010	91	2514404	60.0	55.9	
121 Phenanthrene	178	10.694	10.689	0.005	97	5114269	60.0	60.7	
122 Anthracene	178	10.748	10.742	0.006	96	5395998	60.0	62.6	
124 Carbazole	167	10.908	10.897	0.011	82	4740553	60.0	62.8	
126 Di-n-butyl phthalate	149	11.239	11.234	0.005	99	5934589	60.0	62.9	
57 Azobenzene	77		11.923				ND	ND	
131 Fluoranthene	202	12.121	12.110	0.010	97	5291453	60.0	62.2	
132 Benzidine	184	12.265	12.254	0.011	99	2399353	60.0	60.0	
133 Pyrene	202	12.452	12.441	0.011	98	5454551	60.0	60.8	
138 Butyl benzyl phthalate	149	13.387	13.376	0.011	97	2464856	60.0	61.9	
144 3,3'-Dichlorobenzidine	252	14.391	14.375	0.016	70	1739062	60.0	66.3	
145 Bis(2-ethylhexyl) phthalat	149	14.444	14.434	0.010	96	3504948	60.0	63.5	
146 Benzo[a]anthracene	228	14.460	14.450	0.010	95	4749712	60.0	60.4	
147 Chrysene	228	14.535	14.519	0.016	94	4501660	60.0	60.7	
150 Di-n-octyl phthalate	149	15.764	15.753	0.011	99	5987889	60.0	67.7	
151 7,12-Dimethylbenz(a)anthra	256	16.608	16.581	0.027	70	1992000	60.0	63.4	
152 Benzo[b]fluoranthene	252	16.629	16.597	0.032	94	4528904	60.0	61.4	
153 Benzo[k]fluoranthene	252	16.677	16.656	0.021	99	4563372	60.0	63.1	
219 Benzo[e]pyrene	252	17.185	17.158	0.027	0	4171014	60.0	62.7	
154 Benzo[a]pyrene	252	17.286	17.265	0.021	76	4146954	60.0	62.4	
157 Indeno[1,2,3-cd]pyrene	276	19.813	19.787	0.026	93	4723890	60.0	67.6	M
158 Dibenz(a,h)anthracene	278	19.861	19.824	0.037	69	3894722	60.0	67.0	
159 Benzo[g,h,i]perylene	276	20.529	20.481	0.048	89	4010862	60.0	67.2	
S 199 Total Cresols	108				0		120.0	112.7	
S 197 Methyl Phenols,Total	108				0		120.0	112.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD60i_00005 Amount Added: 1.00 Units: mL

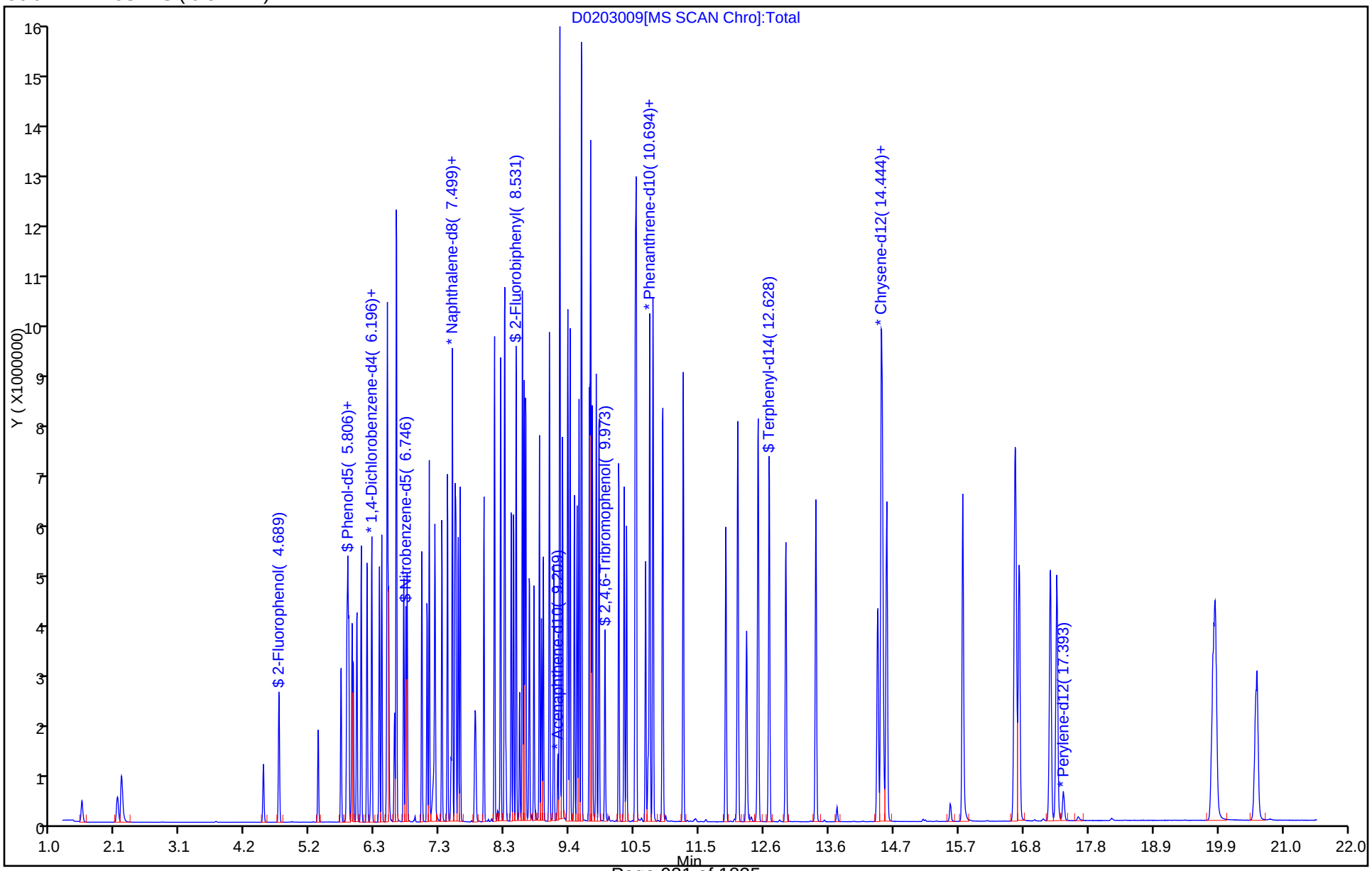
Report Date: 04-Feb-2015 06:41:32 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203009.D

Injection Date:	03-Feb-2015 08:33:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

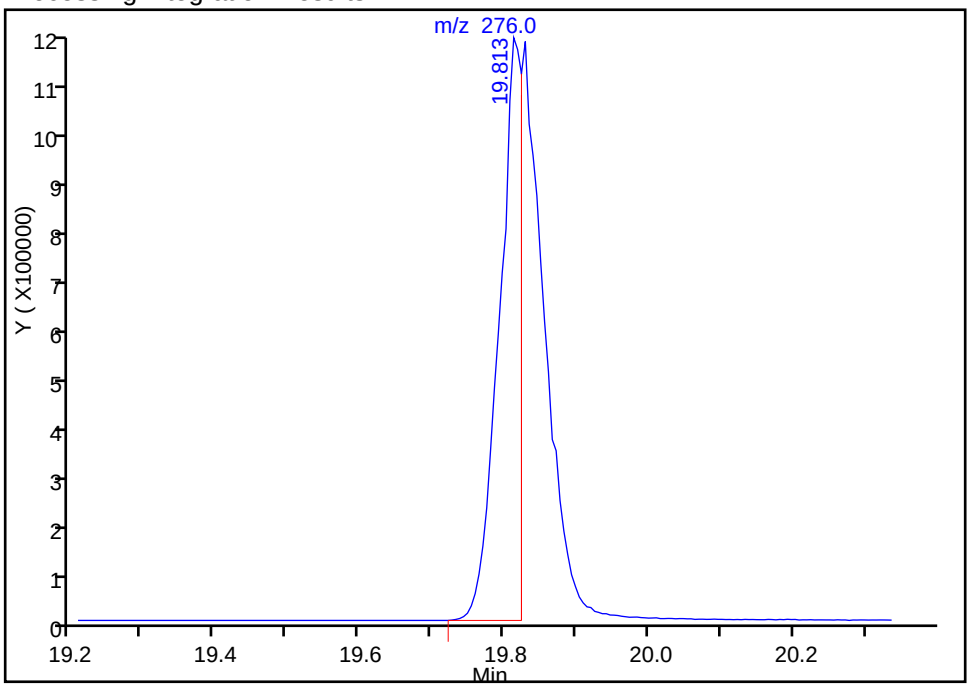
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150203-5518.b\D0203009.D				
Injection Date:	03-Feb-2015 08:33:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

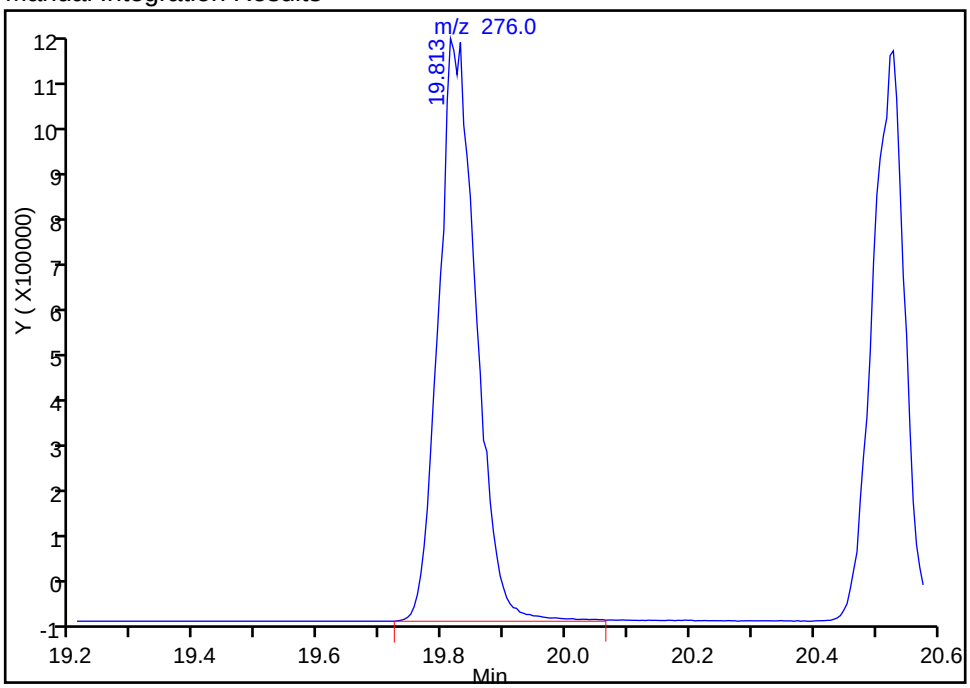
Processing Integration Results

RT: 19.81
Area: 2423593
Amount: 38.592788
Amount Units: ng



Manual Integration Results

RT: 19.81
Area: 4723890
Amount: 67.557379
Amount Units: ng



Reviewer: piccolinov, 03-Feb-2015 08:59:37
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 03-Feb-2015 09:00:30 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0005518-010
Misc. Info.: IC
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 04-Feb-2015 06:41:39 Calib Date: 03-Feb-2015 09:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: piccolinov Date: 03-Feb-2015 09:33:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.185	6.175	0.010	95	130134	8.00	8.00	
* 2 Naphthalene-d8	136	7.483	7.473	0.010	100	562776	8.00	8.00	
* 3 Acenaphthene-d10	164	9.209	9.204	0.005	91	336979	8.00	8.00	
* 4 Phenanthrene-d10	188	10.673	10.662	0.011	56	562981	8.00	8.00	
* 5 Chrysene-d12	240	14.487	14.471	0.016	75	533575	8.00	8.00	
* 6 Perylene-d12	264	17.399	17.377	0.022	95	473099	8.00	8.00	
$ 7 2-Fluorophenol	112	4.706	4.695	0.011	91	1350034	80.0	80.0	
$ 8 Phenol-d5	99	5.801	5.785	0.016	96	1756748	80.0	77.3	
$ 9 Nitrobenzene-d5	82	6.757	6.741	0.016	89	1821929	80.0	77.1	
$ 10 2-Fluorobiphenyl	172	8.536	8.525	0.011	92	4264201	80.0	77.1	
$ 11 2,4,6-Tribromophenol	330	9.978	9.962	0.016	92	533212	80.0	86.2	
$ 12 Terphenyl-d14	244	12.633	12.617	0.016	98	4739579	80.0	81.6	
13 1,4-Dioxane	88	1.532	1.511	0.021	94	408930	80.0	78.9	
14 N-Nitrosodimethylamine	74	2.115	2.077	0.037	83	570621	80.0	81.5	
15 Pyridine	79	2.173	2.157	0.016	93	993662	80.0	81.3	
21 Methyl methanesulfonate	80	4.460	4.438	0.022	90	750302	80.0	76.1	
25 Benzaldehyde	77	5.704	5.694	0.010	85	827212	80.0	75.3	
26 Phenol	94	5.817	5.801	0.016	94	1910430	80.0	74.0	
27 Aniline	93	5.833	5.817	0.016	95	2127696	80.0	74.5	
29 Bis(2-chloroethyl)ether	93	5.908	5.892	0.016	92	1360669	80.0	74.7	
30 2-Chlorophenol	128	5.961	5.950	0.011	96	1719757	80.0	78.0	
31 n-Decane	43	6.030	6.020	0.010	92	1778933	80.0	68.8	
32 1,3-Dichlorobenzene	146	6.127	6.116	0.011	98	1969048	80.0	76.7	
33 1,4-Dichlorobenzene	146	6.201	6.191	0.010	94	2013954	80.0	76.4	
34 Benzyl alcohol	108	6.330	6.314	0.016	89	1052255	80.0	75.9	
35 1,2-Dichlorobenzene	146	6.362	6.356	0.006	91	1943533	80.0	75.9	
36 2-Methylphenol	108	6.452	6.431	0.021	69	1418095	80.0	72.4	
37 Indene	116	6.458	6.447	0.011	76	2585818	80.0	72.7	
38 2,2'-oxybis[1-chloropropan	45	6.474	6.463	0.011	91	2627938	80.0	68.5	
39 N-Nitrosopyrrolidine	100	6.575	6.549	0.026	79	735704	80.0	77.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.602	6.586	0.016	44	911733	80.0	65.5	
40 Acetophenone	105	6.602	6.586	0.016	84	1999395	80.0	67.7	
42 4-Methylphenol	108	6.602	6.586	0.016	73	1370355	80.0	68.2	
45 Hexachloroethane	117	6.720	6.709	0.011	97	865068	80.0	75.8	
46 Nitrobenzene	77	6.773	6.762	0.011	90	1755924	80.0	74.9	
48 Isophorone	82	7.013	6.997	0.016	96	3163519	80.0	76.6	
49 2-Nitrophenol	139	7.099	7.088	0.011	97	1023420	80.0	78.9	
50 2,4-Dimethylphenol	107	7.131	7.120	0.011	53	1691801	80.0	71.4	
52 Benzoic acid	122	7.243	7.168	0.075	84	1152352	80.0	81.8	
53 Bis(2-chloroethoxy)methane	93	7.222	7.211	0.011	96	1856791	80.0	73.1	
54 2,4-Dichlorophenol	162	7.334	7.323	0.011	94	1589300	80.0	76.8	
56 1,2,4-Trichlorobenzene	180	7.425	7.414	0.011	94	1794324	80.0	75.6	
58 Naphthalene	128	7.505	7.494	0.011	96	5845912	80.0	76.8	
59 4-Chloroaniline	127	7.548	7.537	0.011	79	2275054	80.0	74.6	
60 2,6-Dichlorophenol	162	7.564	7.553	0.011	97	1537038	80.0	74.7	
62 Hexachlorobutadiene	225	7.633	7.622	0.011	53	1078670	80.0	75.9	
64 Caprolactam	113	7.889	7.841	0.048	72	544085	80.0	78.5	
67 4-Chloro-3-methylphenol	107	8.018	8.002	0.016	94	1628392	80.0	75.0	
69 2-Methylnaphthalene	142	8.189	8.178	0.011	87	4039867	80.0	75.0	
71 1-Methylnaphthalene	142	8.285	8.274	0.011	83	3757680	80.0	74.4	
72 Hexachlorocyclopentadiene	237	8.349	8.338	0.011	95	1063917	80.0	72.6	
73 1,2,4,5-Tetrachlorobenzene	216	8.354	8.344	0.010	98	1614990	80.0	73.5	
74 2,4,6-Trichlorophenol	196	8.461	8.445	0.016	91	1196597	80.0	79.9	
75 2,4,5-Trichlorophenol	196	8.498	8.482	0.016	95	1271911	80.0	80.0	
76 1,1'-Biphenyl	154	8.637	8.627	0.010	94	4916975	80.0	77.5	
77 2-Chloronaphthalene	162	8.669	8.659	0.010	77	3914388	80.0	76.2	
79 2-Nitroaniline	65	8.750	8.739	0.011	81	1173309	80.0	80.4	
82 Dimethyl phthalate	163	8.915	8.899	0.016	98	4183619	80.0	78.2	
83 1,3-Dinitrobenzene	168	8.947	8.937	0.010	60	672638	80.0	83.5	
84 2,6-Dinitrotoluene	165	8.979	8.963	0.016	72	940800	80.0	80.0	
85 Acenaphthylene	152	9.075	9.065	0.010	90	6481156	80.0	79.6	
86 3-Nitroaniline	138	9.145	9.134	0.011	93	1147441	80.0	80.2	
87 2,4-Dinitrophenol	184	9.246	9.230	0.016	66	1253184	160.0	158.3	
88 Acenaphthene	153	9.246	9.236	0.010	86	3512775	80.0	70.6	
89 4-Nitrophenol	109	9.294	9.273	0.021	39	1337557	160.0	169.0	
91 2,4-Dinitrotoluene	165	9.369	9.359	0.010	89	1210224	80.0	78.4	
93 Dibenzofuran	168	9.412	9.401	0.011	79	5571795	80.0	78.1	
95 2,3,5,6-Tetrachlorophenol	232	9.481	9.471	0.010	89	1122675	80.0	81.2	
96 2,3,4,6-Tetrachlorophenol	232	9.524	9.514	0.010	72	1088782	80.0	80.4	
97 2-Naphthylamine	143	9.556	9.540	0.016	88	3745510	80.0	73.7	
98 Diethyl phthalate	149	9.594	9.578	0.016	92	3962742	80.0	72.5	
99 Hexadecane	57	9.599	9.588	0.011	92	2544862	80.0	61.3	
100 4-Chlorophenyl phenyl ethe	204	9.722	9.711	0.011	94	2002066	80.0	76.4	
101 4-Nitroaniline	138	9.743	9.722	0.021	55	1112682	80.0	78.8	
103 Fluorene	166	9.743	9.733	0.010	73	4227850	80.0	76.2	
104 4,6-Dinitro-2-methylphenol	198	9.775	9.754	0.021	66	1636050	160.0	178.8	
105 N-Nitrosodiphenylamine	169	9.834	9.823	0.011	60	3320829	80.0	83.0	
90 1,2-Diphenylhydrazine	77	9.877	9.866	0.011	99	4555078	80.0	79.5	
110 4-Bromophenyl phenyl ether	248	10.197	10.192	0.005	65	1183915	80.0	80.5	
112 Hexachlorobenzene	284	10.288	10.277	0.011	93	1175832	80.0	80.0	
113 Atrazine	200	10.326	10.310	0.016	73	876625	80.0	75.5	
116 Pentachlorophenol	266	10.470	10.454	0.016	90	1657954	160.0	160.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.480	10.470	0.010	92	3002594	80.0	64.8	
121 Phenanthrene	178	10.699	10.689	0.010	96	6996513	80.0	82.7	
122 Anthracene	178	10.753	10.742	0.011	96	7270383	80.0	84.1	
124 Carbazole	167	10.908	10.897	0.011	82	6310858	80.0	83.3	
126 Di-n-butyl phthalate	149	11.239	11.234	0.005	99	8182573	80.0	86.4	
57 Azobenzene	77		11.923				ND	ND	
131 Fluoranthene	202	12.126	12.110	0.016	97	7033592	80.0	82.4	
132 Benzidine	184	12.270	12.254	0.016	99	2219269	80.0	56.6	
133 Pyrene	202	12.452	12.441	0.011	98	7357760	80.0	83.6	
138 Butyl benzyl phthalate	149	13.392	13.376	0.016	96	3249211	80.0	83.1	
144 3,3'-Dichlorobenzidine	252	14.391	14.375	0.016	72	2244278	80.0	87.2	
145 Bis(2-ethylhexyl) phthalat	149	14.444	14.434	0.010	95	4655604	80.0	86.0	
146 Benzo[a]anthracene	228	14.466	14.450	0.016	93	6389372	80.0	82.8	
147 Chrysene	228	14.535	14.519	0.016	93	5985101	80.0	82.3	
150 Di-n-octyl phthalate	149	15.769	15.753	0.016	99	8321767	80.0	90.5	
151 7,12-Dimethylbenz(a)anthra	256	16.613	16.581	0.032	70	2745346	80.0	84.1	
152 Benzo[b]fluoranthene	252	16.629	16.597	0.032	94	6275756	80.0	81.8	
153 Benzo[k]fluoranthene	252	16.683	16.656	0.027	95	6303252	80.0	83.9	
219 Benzo[e]pyrene	252	17.190	17.158	0.032	0	5734616	80.0	82.9	
154 Benzo[a]pyrene	252	17.297	17.265	0.032	75	5893073	80.0	85.3	
157 Indeno[1,2,3-cd]pyrene	276	19.829	19.787	0.042	97	6772582	80.0	93.2	
158 Dibenz(a,h)anthracene	278	19.867	19.824	0.043	69	5554542	80.0	91.9	
159 Benzo[g,h,i]perylene	276	20.535	20.481	0.054	91	5811207	80.0	93.7	
S 197 Methyl Phenols,Total	108				0		160.0	140.6	
S 199 Total Cresols	108				0		160.0	140.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SVTAPSTD80i_00005 Amount Added: 1.00 Units: mL

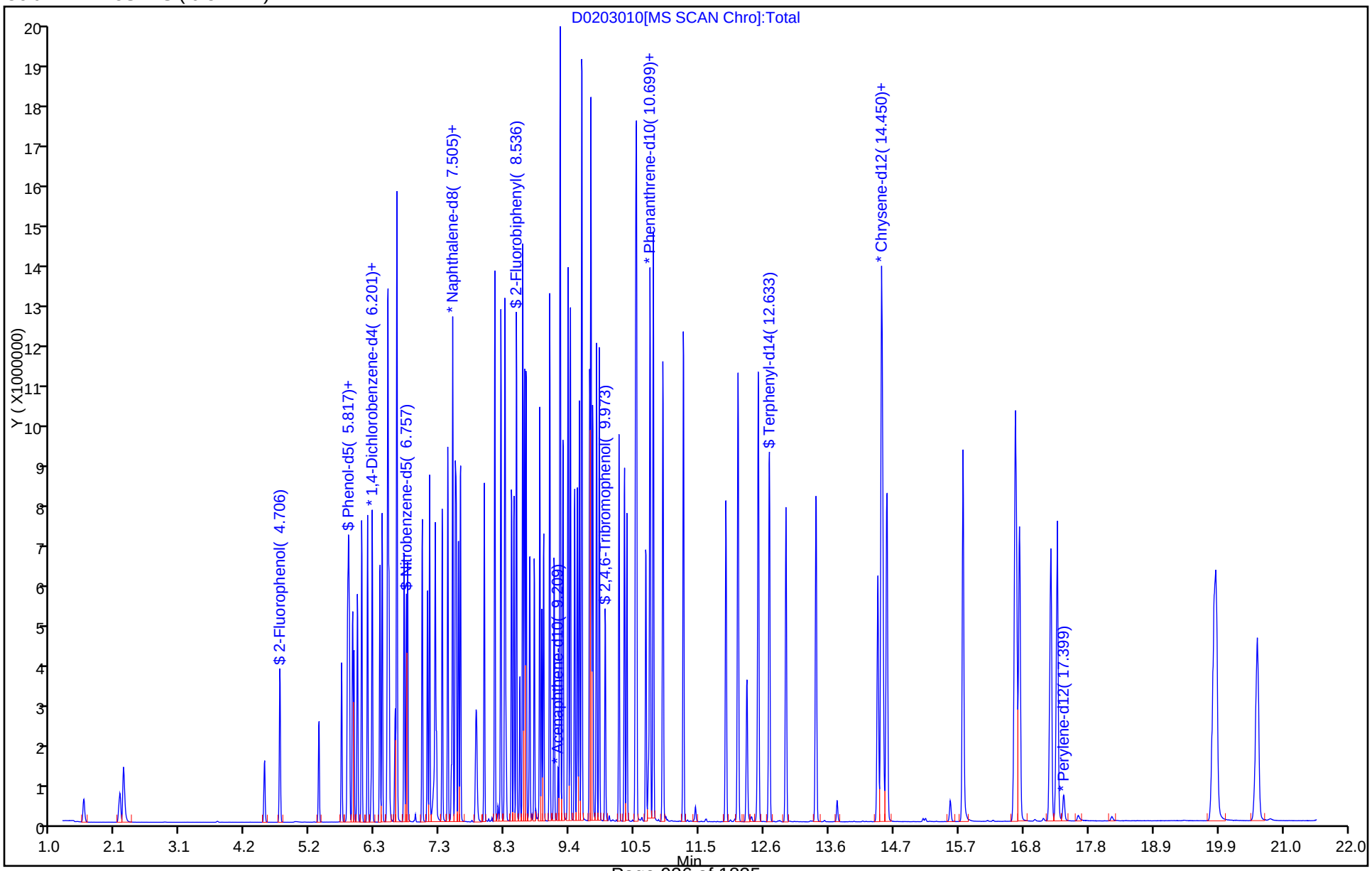
Report Date: 04-Feb-2015 06:41:39 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D

Injection Date:	03-Feb-2015 09:00:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141231/3 Calibration Date: 05/12/2015 08:16

Instrument ID: CH732 Calib Start Date: 02/03/2015 05:53

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 02/03/2015 09:00

Lab File ID: D0512003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.3186	0.2700	0.0100	4.24	5.00	-15.3	20.0
N-Nitrosodimethylamine	Ave	0.4305	0.3667	0.0100	4.26	5.00	-14.8	20.0
Pyridine	Ave	0.7509	0.6408	0.0100	4.27	5.00	-14.7	20.0
Methyl methanesulfonate	Ave	0.6060	0.6026	0.0100	4.97	5.00	-0.6	20.0
Benzaldehyde	Ave	0.6754	0.8724	0.0100	6.46	5.00	29.2*	20.0
Phenol	Ave	1.587	1.474	0.8000	4.65	5.00	-7.1	20.0
Aniline	Ave	1.756	1.674	0.0100	4.77	5.00	-4.6	20.0
Bis(2-chloroethyl)ether	Ave	1.120	1.033	0.7000	4.61	5.00	-7.8	20.0
2-Chlorophenol	Ave	1.355	1.305	0.8000	4.81	5.00	-3.7	20.0
n-Decane	Ave	1.590	1.446		4.55	5.00	-9.0	20.0
1,3-Dichlorobenzene	Ave	1.578	1.487	0.0100	4.71	5.00	-5.8	20.0
1,4-Dichlorobenzene	Ave	1.619	1.527	0.0100	4.71	5.00	-5.7	20.0
Benzyl alcohol	Ave	0.8521	0.7929	0.0100	4.65	5.00	-6.9	20.0
1,2-Dichlorobenzene	Ave	1.574	1.482	0.0100	4.71	5.00	-5.9	20.0
2-Methylphenol	Ave	1.204	1.198	0.7000	4.98	5.00	-0.5	20.0
Indene	Ave	2.185	2.130	0.0100	4.87	5.00	-2.5	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.359	2.261	0.0100	4.79	5.00	-4.2	20.0
N-Nitrosopyrrolidine	Ave	0.5864	0.6031	0.0100	5.14	5.00	2.8	20.0
Acetophenone	Ave	1.815	1.762	0.0100	4.85	5.00	-2.9	20.0
Methylphenol, 3 & 4	Ave	1.236	1.203	0.6000	4.87	5.00	-2.6	20.0
N-Nitrosodi-n-propylamine	Ave	0.8551	0.8416	0.5000	4.92	5.00	-1.6	20.0
Hexachloroethane	Ave	0.7013	0.7294	0.3000	5.20	5.00	4.0	20.0
Nitrobenzene	Ave	0.3334	0.3047	0.2000	4.57	5.00	-8.6	20.0
Isophorone	Ave	0.5870	0.5323	0.4000	4.53	5.00	-9.3	20.0
2-Nitrophenol	Ave	0.1845	0.1725	0.1000	4.68	5.00	-6.5	20.0
2,4-Dimethylphenol	Ave	0.3367	0.3176	0.2000	4.72	5.00	-5.7	20.0
Benzoic acid	Lin1		0.1652	0.0100	4.73	5.00	-5.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.3611	0.3498	0.3000	4.84	5.00	-3.1	20.0
2,4-Dichlorophenol	Ave	0.2941	0.2736	0.2000	4.65	5.00	-7.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3374	0.3038	0.0100	4.50	5.00	-10.0	20.0
Naphthalene	Ave	1.082	1.008	0.7000	4.66	5.00	-6.8	20.0
4-Chloroaniline	Ave	0.4336	0.4299	0.0100	4.96	5.00	-0.9	20.0
2,6-Dichlorophenol	Ave	0.2924	0.2850	0.0100	4.87	5.00	-2.6	20.0
Hexachlorobutadiene	Ave	0.2019	0.1824	0.0100	4.52	5.00	-9.6	20.0
Caprolactam	Ave	0.0985	0.0968	0.0100	4.91	5.00	-1.7	20.0
4-Chloro-3-methylphenol	Ave	0.3085	0.2976	0.2000	4.82	5.00	-3.5	20.0
2-Methylnaphthalene	Ave	0.7654	0.7655	0.4000	5.00	5.00	0.0	20.0
1-Methylnaphthalene	Ave	0.7177	0.7289	0.0100	5.08	5.00	1.6	20.0
Hexachlorocyclopentadiene	Ave	0.3480	0.3128	0.0500	4.49	5.00	-10.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5214	0.4314	0.0100	4.14	5.00	-17.3	20.0
2,4,6-Trichlorophenol	Ave	0.3558	0.3195	0.2000	4.49	5.00	-10.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141231/3 Calibration Date: 05/12/2015 08:16

Instrument ID: CH732 Calib Start Date: 02/03/2015 05:53

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 02/03/2015 09:00

Lab File ID: D0512003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.3774	0.3284	0.2000	4.35	5.00	-13.0	20.0
1,1'-Biphenyl	Ave	1.505	1.344	0.0100	4.46	5.00	-10.8	20.0
2-Chloronaphthalene	Ave	1.220	1.087	0.8000	4.46	5.00	-10.9	20.0
2-Nitroaniline	Ave	0.3466	0.3115	0.0100	4.49	5.00	-10.1	20.0
Dimethyl phthalate	Ave	1.270	1.117	0.0100	4.40	5.00	-12.1	20.0
1,3-Dinitrobenzene	Ave	0.1913	0.1835	0.0100	4.80	5.00	-4.1	20.0
2,6-Dinitrotoluene	Ave	0.2790	0.2617	0.2000	4.69	5.00	-6.2	20.0
Acenaphthylene	Ave	1.934	1.783	0.9000	4.61	5.00	-7.8	20.0
3-Nitroaniline	Ave	0.3396	0.3163	0.0100	4.66	5.00	-6.9	20.0
2,4-Dinitrophenol	Lin1		0.1666	0.0100	9.20	10.0	-8.0	20.0
Acenaphthene	Ave	1.181	1.075	0.9000	4.55	5.00	-9.0	20.0
4-Nitrophenol	Ave	0.1879	0.1562	0.0100	8.31	10.0	-16.9	20.0
2,4-Dinitrotoluene	Ave	0.3667	0.3327	0.2000	4.54	5.00	-9.3	20.0
Dibenzofuran	Ave	1.694	1.551	0.8000	4.58	5.00	-8.4	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.3283	0.3002	0.0100	4.57	5.00	-8.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3217	0.3064	0.0100	4.76	5.00	-4.7	20.0
2-Naphthylamine	Ave	1.207	1.177	0.0100	4.88	5.00	-2.5	20.0
Diethyl phthalate	Ave	1.298	1.166	0.0100	4.49	5.00	-10.2	20.0
Hexadecane	Ave	0.5903	0.6639		5.62	5.00	12.5	20.0
4-Chlorophenyl phenyl ether	Ave	0.6218	0.5613	0.4000	4.51	5.00	-9.7	20.0
4-Nitroaniline	Ave	0.3352	0.3006	0.0100	4.48	5.00	-10.3	20.0
Fluorene	Ave	1.318	1.241	0.9000	4.71	5.00	-5.8	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1300	0.1162	0.0100	8.93	10.0	-10.7	20.0
N-Nitrosodiphenylamine	Ave	0.5683	0.5214	0.0100	4.59	5.00	-8.3	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.8141	0.8052	0.0100	4.95	5.00	-1.1	20.0
4-Bromophenyl phenyl ether	Ave	0.2089	0.1904	0.1000	4.56	5.00	-8.9	20.0
Hexachlorobenzene	Ave	0.2088	0.1905	0.1000	4.56	5.00	-8.8	20.0
Atrazine	Ave	0.1650	0.1848	0.0100	5.60	5.00	12.0	20.0
Pentachlorophenol	Ave	0.1472	0.1409	0.0500	9.57	10.0	-4.3	20.0
n-Octadecane	Ave	2.847	3.615		6.35	5.00	27.0*	20.0
Phenanthrene	Ave	1.202	1.109	0.7000	4.62	5.00	-7.7	20.0
Anthracene	Ave	1.229	1.147	0.7000	4.67	5.00	-6.7	20.0
Carbazole	Ave	1.076	0.998	0.0100	4.64	5.00	-7.2	20.0
Di-n-butyl phthalate	Ave	1.346	1.242	0.0100	4.62	5.00	-7.7	20.0
Fluoranthene	Ave	1.213	1.051	0.6000	4.33	5.00	-13.4	20.0
Benzidine	Lin1		0.5499	0.0100	5.23	5.00	4.7	20.0
Pyrene	Ave	1.320	1.419	0.6000	5.37	5.00	7.4	20.0
Butyl benzyl phthalate	Ave	0.5863	0.6062	0.0100	5.17	5.00	3.4	20.0
3,3'-Dichlorobenzidine	Ave	0.3859	0.3322	0.0100	4.30	5.00	-13.9	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8121	0.7957	0.0100	4.90	5.00	-2.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141231/3 Calibration Date: 05/12/2015 08:16

Instrument ID: CH732 Calib Start Date: 02/03/2015 05:53

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 02/03/2015 09:00

Lab File ID: D0512003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.158	1.084	0.8000	4.68	5.00	-6.3	20.0
Chrysene	Ave	1.091	1.053	0.7000	4.83	5.00	-3.5	20.0
Di-n-octyl phthalate	Ave	1.554	1.577	0.0100	5.07	5.00	1.5	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5519	0.4510	0.0100	4.09	5.00	-18.3	20.0
Benzo[b]fluoranthene	Ave	1.297	1.186	0.7000	4.57	5.00	-8.5	20.0
Benzo[k]fluoranthene	Ave	1.271	1.243	0.7000	4.89	5.00	-2.2	20.0
Benzo[e]pyrene	Ave	1.169	1.124	0.0100	4.81	5.00	-3.9	20.0
Benzo[a]pyrene	Ave	1.168	1.103	0.7000	4.72	5.00	-5.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.229	1.138	0.5000	4.63	5.00	-7.4	20.0
Dibenz(a,h)anthracene	Ave	1.022	0.9451	0.4000	4.63	5.00	-7.5	20.0
Benzo[g,h,i]perylene	Ave	1.048	1.002	0.5000	4.78	5.00	-4.4	20.0
2-Fluorophenol (Surr)	Ave	1.037	0.8817		4.25	5.00	-15.0	20.0
Phenol-d5 (Surr)	Ave	1.397	1.339		4.79	5.00	-4.1	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3358	0.3020		4.50	5.00	-10.0	20.0
2-Fluorobiphenyl	Ave	1.314	1.155		4.40	5.00	-12.1	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.0879	0.0804	0.0100	4.57	5.00	-8.5	20.0
Terphenyl-d14 (Surr)	Ave	0.8709	0.8897		5.11	5.00	2.2	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512003.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 12-May-2015 08:16:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006874-003
Misc. Info.: CCVIS
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150512-6874.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 13-May-2015 05:25:53 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: piccolinov Date: 12-May-2015 09:46:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.217	6.217	0.000	97	136870	8.00	8.00	
* 2 Naphthalene-d8	136	7.499	7.499	0.000	100	689809	8.00	8.00	
* 3 Acenaphthene-d10	164	9.204	9.204	0.000	91	496738	8.00	8.00	
* 4 Phenanthrene-d10	188	10.651	10.651	0.000	97	859341	8.00	8.00	
* 5 Chrysene-d12	240	14.412	14.412	0.000	96	669908	8.00	8.00	
* 6 Perylene-d12	264	17.297	17.297	0.000	95	509261	8.00	8.00	
$ 7 2-Fluorophenol	112	4.764	4.764	0.000	92	150847	10.0	8.50	
$ 8 Phenol-d5	99	5.833	5.833	0.000	95	229155	10.0	9.59	
$ 9 Nitrobenzene-d5	82	6.778	6.778	0.000	93	260433	10.0	9.00	
$ 10 2-Fluorobiphenyl	172	8.536	8.536	0.000	99	717274	10.0	8.79	
$ 11 2,4,6-Tribromophenol	330	9.957	9.957	0.000	89	86396	10.0	9.15	
$ 12 Terphenyl-d14	244	12.575	12.575	0.000	98	745040	10.0	10.2	
13 1,4-Dioxane	88	1.623	1.623	0.000	95	46199	10.0	8.47	
14 N-Nitrosodimethylamine	74	2.216	2.216	0.000	85	62745	10.0	8.52	
15 Pyridine	79	2.301	2.301	0.000	90	109632	10.0	8.53	
21 Methyl methanesulfonate	80	4.513	4.513	0.000	91	103102	10.0	9.94	
25 Benzaldehyde	77	5.747	5.747	0.000	89	149258	10.0	12.9	
26 Phenol	94	5.849	5.849	0.000	97	252222	10.0	9.29	
27 Aniline	93	5.865	5.865	0.000	95	286418	10.0	9.54	
29 Bis(2-chloroethyl)ether	93	5.934	5.934	0.000	92	176748	10.0	9.22	
30 2-Chlorophenol	128	5.998	5.998	0.000	96	223283	10.0	9.63	
31 n-Decane	43	6.062	6.062	0.000	93	247455	10.0	9.10	
32 1,3-Dichlorobenzene	146	6.159	6.159	0.000	97	254422	10.0	9.42	
33 1,4-Dichlorobenzene	146	6.233	6.233	0.000	93	261219	10.0	9.43	
34 Benzyl alcohol	108	6.351	6.351	0.000	89	135658	10.0	9.31	
35 1,2-Dichlorobenzene	146	6.394	6.394	0.000	96	253518	10.0	9.41	
36 2-Methylphenol	108	6.468	6.468	0.000	97	204960	10.0	9.95	
37 Indene	116	6.484	6.484	0.000	90	364473	10.0	9.75	
38 2,2'-oxybis[1-chloropropan	45	6.495	6.495	0.000	89	386843	10.0	9.58	
39 N-Nitrosopyrrolidine	100	6.591	6.591	0.000	81	103181	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.623	6.623	0.000	78	301371	10.0	9.71	
41 N-Nitrosodi-n-propylamine	70	6.623	6.623	0.000	74	143980	10.0	9.84	
42 4-Methylphenol	108	6.623	6.623	0.000	62	205879	10.0	9.74	
45 Hexachloroethane	117	6.741	6.741	0.000	96	124797	10.0	10.4	
46 Nitrobenzene	77	6.794	6.794	0.000	93	262715	10.0	9.14	
48 Isophorone	82	7.029	7.029	0.000	98	458962	10.0	9.07	
49 2-Nitrophenol	139	7.115	7.115	0.000	97	148725	10.0	9.35	
50 2,4-Dimethylphenol	107	7.147	7.147	0.000	96	273824	10.0	9.43	
52 Benzoic acid	122	7.200	7.200	0.000	90	142451	10.0	9.46	
53 Bis(2-chloroethoxy)methane	93	7.238	7.238	0.000	97	301655	10.0	9.69	
54 2,4-Dichlorophenol	162	7.350	7.350	0.000	96	235918	10.0	9.30	
56 1,2,4-Trichlorobenzene	180	7.441	7.441	0.000	94	261908	10.0	9.00	
58 Naphthalene	128	7.521	7.521	0.000	97	869538	10.0	9.32	
59 4-Chloroaniline	127	7.558	7.558	0.000	96	370702	10.0	9.91	
60 2,6-Dichlorophenol	162	7.574	7.574	0.000	96	245724	10.0	9.74	
62 Hexachlorobutadiene	225	7.644	7.644	0.000	97	157296	10.0	9.04	
64 Caprolactam	113	7.868	7.868	0.000	75	83474	10.0	9.83	
67 4-Chloro-3-methylphenol	107	8.018	8.018	0.000	97	256614	10.0	9.65	
69 2-Methylnaphthalene	142	8.194	8.194	0.000	93	660065	10.0	10.0	
71 1-Methylnaphthalene	142	8.290	8.290	0.000	93	628486	10.0	10.2	
72 Hexachlorocyclopentadiene	237	8.354	8.354	0.000	97	194220	10.0	8.99	
73 1,2,4,5-Tetrachlorobenzene	216	8.360	8.360	0.000	98	267886	10.0	8.27	
74 2,4,6-Trichlorophenol	196	8.461	8.461	0.000	94	198374	10.0	8.98	
75 2,4,5-Trichlorophenol	196	8.493	8.493	0.000	94	203900	10.0	8.70	
76 1,1'-Biphenyl	154	8.637	8.637	0.000	95	834240	10.0	8.92	
77 2-Chloronaphthalene	162	8.669	8.669	0.000	97	674916	10.0	8.91	
79 2-Nitroaniline	65	8.744	8.744	0.000	85	193445	10.0	8.99	
82 Dimethyl phthalate	163	8.904	8.904	0.000	98	693406	10.0	8.79	
83 1,3-Dinitrobenzene	168	8.942	8.942	0.000	86	113957	10.0	9.59	
84 2,6-Dinitrotoluene	165	8.969	8.969	0.000	94	162475	10.0	9.38	
85 Acenaphthylene	152	9.070	9.070	0.000	98	1107145	10.0	9.22	
86 3-Nitroaniline	138	9.134	9.134	0.000	95	196417	10.0	9.31	
88 Acenaphthene	153	9.236	9.236	0.000	91	667562	10.0	9.10	
87 2,4-Dinitrophenol	184	9.236	9.236	0.000	80	206931	20.0	18.4	
89 4-Nitrophenol	109	9.268	9.268	0.000	94	193952	20.0	16.6	
91 2,4-Dinitrotoluene	165	9.359	9.359	0.000	91	206554	10.0	9.07	
93 Dibenzofuran	168	9.396	9.396	0.000	96	963092	10.0	9.16	
95 2,3,5,6-Tetrachlorophenol	232	9.471	9.471	0.000	93	186418	10.0	9.14	
96 2,3,4,6-Tetrachlorophenol	232	9.508	9.508	0.000	75	190249	10.0	9.53	
97 2-Naphthylamine	143	9.540	9.540	0.000	97	731077	10.0	9.75	
98 Diethyl phthalate	149	9.572	9.572	0.000	98	723991	10.0	8.98	
99 Hexadecane	57	9.578	9.578	0.000	91	572490	10.0	11.2	
100 4-Chlorophenyl phenyl ethe	204	9.706	9.706	0.000	96	348493	10.0	9.03	
101 4-Nitroaniline	138	9.722	9.722	0.000	86	186670	10.0	8.97	
103 Fluorene	166	9.727	9.727	0.000	95	770775	10.0	9.42	
104 4,6-Dinitro-2-methylphenol	198	9.749	9.749	0.000	82	249541	20.0	17.9	
105 N-Nitrosodiphenylamine	169	9.813	9.813	0.000	63	560061	10.0	9.17	
90 1,2-Diphenylhydrazine	77	9.861	9.861	0.000	100	864960	10.0	9.89	
110 4-Bromophenyl phenyl ether	248	10.176	10.176	0.000	70	204466	10.0	9.11	
112 Hexachlorobenzene	284	10.267	10.267	0.000	92	204573	10.0	9.12	
113 Atrazine	200	10.299	10.299	0.000	90	198552	10.0	11.2	
116 Pentachlorophenol	266	10.443	10.443	0.000	90	302788	20.0	19.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.448	10.448	0.000	94	618530	10.0	12.7	
121 Phenanthrene	178	10.673	10.673	0.000	97	1191734	10.0	9.23	
122 Anthracene	178	10.726	10.726	0.000	97	1232227	10.0	9.33	
124 Carbazole	167	10.881	10.881	0.000	96	1072208	10.0	9.28	
126 Di-n-butyl phthalate	149	11.202	11.202	0.000	100	1334526	10.0	9.23	
57 Azobenzene	77		11.891				ND	ND	
131 Fluoranthene	202	12.078	12.078	0.000	99	1128435	10.0	8.66	
132 Benzidine	184	12.217	12.217	0.000	100	460467	10.0	10.5	
133 Pyrene	202	12.404	12.404	0.000	97	1187876	10.0	10.7	
138 Butyl benzyl phthalate	149	13.317	13.317	0.000	97	507625	10.0	10.3	
144 3,3'-Dichlorobenzidine	252	14.316	14.316	0.000	75	278175	10.0	8.61	
145 Bis(2-ethylhexyl) phthalat	149	14.359	14.359	0.000	97	666302	10.0	9.80	
146 Benzo[a]anthracene	228	14.391	14.391	0.000	99	907823	10.0	9.37	
147 Chrysene	228	14.455	14.455	0.000	98	881724	10.0	9.65	
150 Di-n-octyl phthalate	149	15.657	15.657	0.000	99	1003826	10.0	10.1	
151 7,12-Dimethylbenz(a)anthra	256	16.506	16.506	0.000	90	287093	10.0	8.17	
152 Benzo[b]fluoranthene	252	16.523	16.523	0.000	99	755164	10.0	9.15	
153 Benzo[k]fluoranthene	252	16.576	16.576	0.000	98	791397	10.0	9.78	
219 Benzo[e]pyrene	252	17.083	17.083	0.000	0	715634	10.0	9.61	
154 Benzo[a]pyrene	252	17.185	17.185	0.000	80	702069	10.0	9.44	
157 Indeno[1,2,3-cd]pyrene	276	19.669	19.669	0.000	96	724185	10.0	9.26	
158 Dibenz(a,h)anthracene	278	19.706	19.706	0.000	94	601641	10.0	9.25	
159 Benzo[g,h,i]perylene	276	20.358	20.358	0.000	94	638153	10.0	9.56	
S 199 Total Cresols	108				0		20.0	19.7	
S 197 Methyl Phenols,Total	108				0		20.0	19.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SVTAPSTD10i_00103 Amount Added: 1.00 Units: mL

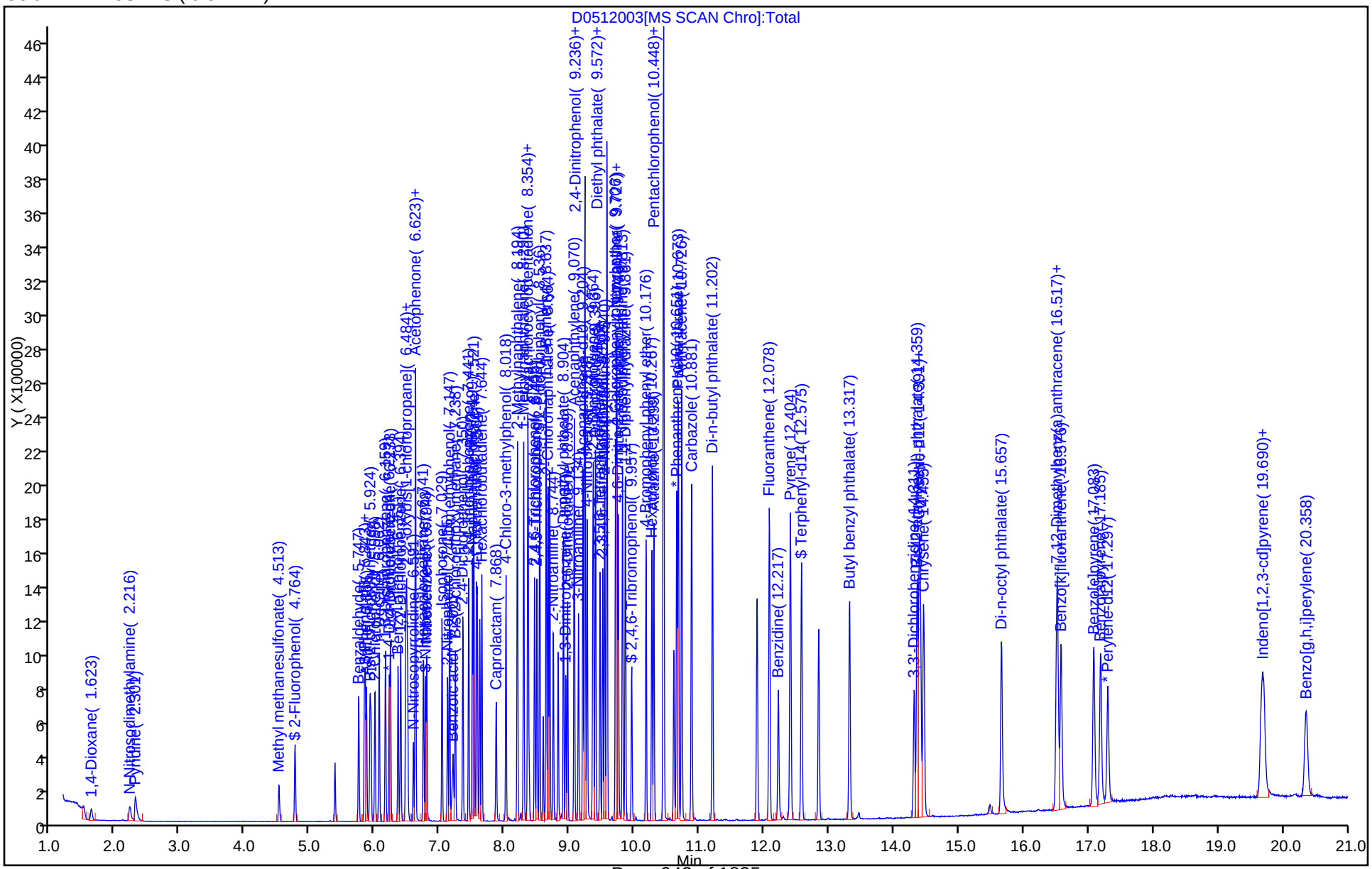
Report Date: 13-May-2015 05:25:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512003.D

Injection Date:	12-May-2015 08:16:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141553/3 Calibration Date: 05/14/2015 12:36

Instrument ID: CH732 Calib Start Date: 02/03/2015 05:53

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 02/03/2015 09:00

Lab File ID: D0514N03.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.3186	0.3014	0.0100	4.73	5.00	-5.4	20.0
N-Nitrosodimethylamine	Ave	0.4305	0.4120	0.0100	4.78	5.00	-4.3	20.0
Pyridine	Ave	0.7509	0.6743	0.0100	4.49	5.00	-10.2	20.0
Methyl methanesulfonate	Ave	0.6060	0.6046	0.0100	4.99	5.00	-0.2	20.0
Benzaldehyde	Ave	0.6754	0.7697	0.0100	5.70	5.00	14.0	20.0
Phenol	Ave	1.587	1.566	0.8000	4.94	5.00	-1.3	20.0
Aniline	Ave	1.756	1.749	0.0100	4.98	5.00	-0.4	20.0
Bis(2-chloroethyl)ether	Ave	1.120	1.107	0.7000	4.94	5.00	-1.2	20.0
2-Chlorophenol	Ave	1.355	1.377	0.8000	5.08	5.00	1.6	20.0
n-Decane	Ave	1.590	1.493		4.70	5.00	-6.1	20.0
1,3-Dichlorobenzene	Ave	1.578	1.566	0.0100	4.96	5.00	-0.8	20.0
1,4-Dichlorobenzene	Ave	1.619	1.612	0.0100	4.98	5.00	-0.5	20.0
Benzyl alcohol	Ave	0.8521	0.8666	0.0100	5.08	5.00	1.7	20.0
1,2-Dichlorobenzene	Ave	1.574	1.607	0.0100	5.10	5.00	2.1	20.0
2-Methylphenol	Ave	1.204	1.220	0.7000	5.07	5.00	1.3	20.0
Indene	Ave	2.185	2.255	0.0100	5.16	5.00	3.2	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.359	2.296	0.0100	4.87	5.00	-2.7	20.0
N-Nitrosopyrrolidine	Ave	0.5864	0.6243	0.0100	5.32	5.00	6.5	20.0
Acetophenone	Ave	1.815	1.856	0.0100	5.11	5.00	2.2	20.0
N-Nitrosodi-n-propylamine	Ave	0.8551	0.8956	0.5000	5.24	5.00	4.7	20.0
Methylphenol, 3 & 4	Ave	1.236	1.302	0.6000	5.27	5.00	5.3	20.0
Hexachloroethane	Ave	0.7013	0.7559	0.3000	5.39	5.00	7.8	20.0
Nitrobenzene	Ave	0.3334	0.3199	0.2000	4.80	5.00	-4.1	20.0
Isophorone	Ave	0.5870	0.5793	0.4000	4.93	5.00	-1.3	20.0
2-Nitrophenol	Ave	0.1845	0.1869	0.1000	5.07	5.00	1.3	20.0
2,4-Dimethylphenol	Ave	0.3367	0.3420	0.2000	5.08	5.00	1.6	20.0
Benzoic acid	Lin1		0.2133	0.0100	5.91	5.00	18.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.3611	0.3605	0.3000	4.99	5.00	-0.2	20.0
2,4-Dichlorophenol	Ave	0.2941	0.2947	0.2000	5.01	5.00	0.2	20.0
1,2,4-Trichlorobenzene	Ave	0.3374	0.3304	0.0100	4.90	5.00	-2.1	20.0
Naphthalene	Ave	1.082	1.093	0.7000	5.05	5.00	1.0	20.0
4-Chloroaniline	Ave	0.4336	0.4583	0.0100	5.28	5.00	5.7	20.0
2,6-Dichlorophenol	Ave	0.2924	0.3047	0.0100	5.21	5.00	4.2	20.0
Hexachlorobutadiene	Ave	0.2019	0.1969	0.0100	4.88	5.00	-2.5	20.0
Caprolactam	Ave	0.0985	0.1119	0.0100	5.68	5.00	13.6	20.0
4-Chloro-3-methylphenol	Ave	0.3085	0.3331	0.2000	5.40	5.00	8.0	20.0
2-Methylnaphthalene	Ave	0.7654	0.8193	0.4000	5.35	5.00	7.0	20.0
1-Methylnaphthalene	Ave	0.7177	0.7910	0.0100	5.51	5.00	10.2	20.0
Hexachlorocyclopentadiene	Ave	0.3480	0.3268	0.0500	4.70	5.00	-6.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5214	0.4539	0.0100	4.35	5.00	-13.0	20.0
2,4,6-Trichlorophenol	Ave	0.3558	0.3294	0.2000	4.63	5.00	-7.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141553/3 Calibration Date: 05/14/2015 12:36

Instrument ID: CH732 Calib Start Date: 02/03/2015 05:53

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 02/03/2015 09:00

Lab File ID: D0514N03.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.3774	0.3403	0.2000	4.51	5.00	-9.8	20.0
1,1'-Biphenyl	Ave	1.505	1.400	0.0100	4.65	5.00	-7.0	20.0
2-Chloronaphthalene	Ave	1.220	1.131	0.8000	4.64	5.00	-7.3	20.0
2-Nitroaniline	Ave	0.3466	0.3206	0.0100	4.63	5.00	-7.5	20.0
Dimethyl phthalate	Ave	1.270	1.220	0.0100	4.80	5.00	-4.0	20.0
1,3-Dinitrobenzene	Ave	0.1913	0.1953	0.0100	5.10	5.00	2.1	20.0
2,6-Dinitrotoluene	Ave	0.2790	0.2830	0.2000	5.07	5.00	1.4	20.0
Acenaphthylene	Ave	1.934	1.904	0.9000	4.92	5.00	-1.5	20.0
3-Nitroaniline	Ave	0.3396	0.3582	0.0100	5.27	5.00	5.5	20.0
2,4-Dinitrophenol	Lin1		0.1719	0.0100	9.47	10.0	-5.3	20.0
Acenaphthene	Ave	1.181	1.152	0.9000	4.88	5.00	-2.4	20.0
4-Nitrophenol	Ave	0.1879	0.1773	0.0100	9.43	10.0	-5.7	20.0
2,4-Dinitrotoluene	Ave	0.3667	0.3799	0.2000	5.18	5.00	3.6	20.0
Dibenzofuran	Ave	1.694	1.691	0.8000	4.99	5.00	-0.2	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.3283	0.3229	0.0100	4.92	5.00	-1.7	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3217	0.3264	0.0100	5.07	5.00	1.5	20.0
2-Naphthylamine	Ave	1.207	1.293	0.0100	5.36	5.00	7.1	20.0
Diethyl phthalate	Ave	1.298	1.292	0.0100	4.98	5.00	-0.4	20.0
Hexadecane	Ave	0.5903	0.7209		6.11	5.00	22.1*	20.0
4-Chlorophenyl phenyl ether	Ave	0.6218	0.6160	0.4000	4.95	5.00	-0.9	20.0
4-Nitroaniline	Ave	0.3352	0.3559	0.0100	5.31	5.00	6.2	20.0
Fluorene	Ave	1.318	1.353	0.9000	5.13	5.00	2.6	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1300	0.1260	0.0100	9.69	10.0	-3.1	20.0
N-Nitrosodiphenylamine	Ave	0.5683	0.5427	0.0100	4.77	5.00	-4.5	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.8141	0.7843	0.0100	4.82	5.00	-3.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2089	0.1949	0.1000	4.67	5.00	-6.7	20.0
Hexachlorobenzene	Ave	0.2088	0.1936	0.1000	4.64	5.00	-7.3	20.0
Atrazine	Ave	0.1650	0.1727	0.0100	5.23	5.00	4.7	20.0
Pentachlorophenol	Ave	0.1472	0.1335	0.0500	9.07	10.0	-9.3	20.0
n-Octadecane	Ave	2.847	3.878		6.81	5.00	36.2*	20.0
Phenanthrene	Ave	1.202	1.162	0.7000	4.83	5.00	-3.3	20.0
Anthracene	Ave	1.229	1.195	0.7000	4.86	5.00	-2.7	20.0
Carbazole	Ave	1.076	1.115	0.0100	5.18	5.00	3.6	20.0
Di-n-butyl phthalate	Ave	1.346	1.371	0.0100	5.09	5.00	1.9	20.0
Fluoranthene	Ave	1.213	1.229	0.6000	5.07	5.00	1.3	20.0
Benzidine	Lin1		0.4667	0.0100		5.00	-9.2	20.0
Pyrene	Ave	1.320	1.309	0.6000	4.96	5.00	-0.8	20.0
Butyl benzyl phthalate	Ave	0.5863	0.6177	0.0100	5.27	5.00	5.4	20.0
3,3'-Dichlorobenzidine	Ave	0.3859	0.3877	0.0100	5.02	5.00	0.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8121	0.8588	0.0100	5.29	5.00	5.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141553/3 Calibration Date: 05/14/2015 12:36

Instrument ID: CH732 Calib Start Date: 02/03/2015 05:53

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 02/03/2015 09:00

Lab File ID: D0514N03.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.158	1.136	0.8000	4.91	5.00	-1.9	20.0
Chrysene	Ave	1.091	1.121	0.7000	5.14	5.00	2.7	20.0
Di-n-octyl phthalate	Ave	1.554	1.621	0.0100	5.22	5.00	4.3	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5519	0.4824	0.0100	4.37	5.00	-12.6	20.0
Benzo[b]fluoranthene	Ave	1.297	1.181	0.7000	4.55	5.00	-9.0	20.0
Benzo[k]fluoranthene	Ave	1.271	1.273	0.7000	5.01	5.00	0.2	20.0
Benzo[e]pyrene	Ave	1.169	1.135	0.0100	4.85	5.00	-3.0	20.0
Benzo[a]pyrene	Ave	1.168	1.159	0.7000	4.96	5.00	-0.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.229	1.239	0.5000	5.04	5.00	0.8	20.0
Dibenz(a,h)anthracene	Ave	1.022	1.025	0.4000	5.02	5.00	0.4	20.0
Benzo[g,h,i]perylene	Ave	1.048	1.068	0.5000	5.09	5.00	1.9	20.0
2-Fluorophenol (Surr)	Ave	1.037	0.9551		4.60	5.00	-7.9	20.0
Phenol-d5 (Surr)	Ave	1.397	1.412		5.05	5.00	1.1	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3358	0.3248		4.84	5.00	-3.3	20.0
2-Fluorobiphenyl	Ave	1.314	1.216		4.63	5.00	-7.5	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.0879	0.0806	0.0100	4.58	5.00	-8.4	20.0
Terphenyl-d14 (Surr)	Ave	0.8709	0.8351		4.79	5.00	-4.1	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N03.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 14-May-2015 12:36:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006915-003
Misc. Info.: CCVIS
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150514-6915.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 15-May-2015 03:56:52 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: piccolinov Date: 14-May-2015 13:00:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.196	6.196	0.000	97	112979	8.00	8.00	
* 2 Naphthalene-d8	136	7.484	7.484	0.000	99	539588	8.00	8.00	
* 3 Acenaphthene-d10	164	9.193	9.193	0.000	91	398891	8.00	8.00	
* 4 Phenanthrene-d10	188	10.641	10.641	0.000	94	746061	8.00	8.00	
* 5 Chrysene-d12	240	14.407	14.407	0.000	88	733643	8.00	8.00	
* 6 Perylene-d12	264	17.308	17.308	0.000	95	665935	8.00	8.00	
$ 7 2-Fluorophenol	112	4.759	4.759	0.000	87	134884	10.0	9.21	
$ 8 Phenol-d5	99	5.822	5.822	0.000	93	199371	10.0	10.1	
$ 9 Nitrobenzene-d5	82	6.757	6.757	0.000	89	219062	10.0	9.67	
$ 10 2-Fluorobiphenyl	172	8.520	8.520	0.000	96	606198	10.0	9.25	
$ 11 2,4,6-Tribromophenol	330	9.952	9.952	0.000	91	75160	10.0	9.16	
$ 12 Terphenyl-d14	244	12.569	12.569	0.000	98	765807	10.0	9.59	
13 1,4-Dioxane	88	1.586	1.586	0.000	90	42568	10.0	9.46	
14 N-Nitrosodimethylamine	74	2.184	2.184	0.000	77	58177	10.0	9.57	
15 Pyridine	79	2.270	2.270	0.000	92	95225	10.0	8.98	
21 Methyl methanesulfonate	80	4.497	4.497	0.000	90	85383	10.0	9.98	
25 Benzaldehyde	77	5.726	5.726	0.000	86	108696	10.0	11.4	
26 Phenol	94	5.838	5.838	0.000	86	221150	10.0	9.87	
27 Aniline	93	5.849	5.849	0.000	86	246995	10.0	9.96	
29 Bis(2-chloroethyl)ether	93	5.918	5.918	0.000	94	156279	10.0	9.88	
30 2-Chlorophenol	128	5.982	5.982	0.000	95	194418	10.0	10.2	
31 n-Decane	43	6.041	6.041	0.000	91	210849	10.0	9.39	
32 1,3-Dichlorobenzene	146	6.137	6.137	0.000	96	221195	10.0	9.92	
33 1,4-Dichlorobenzene	146	6.218	6.218	0.000	84	227617	10.0	9.95	
34 Benzyl alcohol	108	6.335	6.335	0.000	89	122378	10.0	10.2	
35 1,2-Dichlorobenzene	146	6.372	6.372	0.000	89	226892	10.0	10.2	
36 2-Methylphenol	108	6.453	6.453	0.000	96	172229	10.0	10.1	
37 Indene	116	6.463	6.463	0.000	82	318421	10.0	10.3	
38 2,2'-oxybis[1-chloropropan	45	6.479	6.479	0.000	90	324286	10.0	9.73	
39 N-Nitrosopyrrolidine	100	6.570	6.570	0.000	79	88162	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.602	6.602	0.000	77	262054	10.0	10.2	
41 N-Nitrosodi-n-propylamine	70	6.602	6.602	0.000	69	126481	10.0	10.5	
42 4-Methylphenol	108	6.608	6.608	0.000	75	183828	10.0	10.5	
45 Hexachloroethane	117	6.725	6.725	0.000	96	106751	10.0	10.8	
46 Nitrobenzene	77	6.773	6.773	0.000	89	215752	10.0	9.59	
48 Isophorone	82	7.014	7.014	0.000	96	390709	10.0	9.87	
49 2-Nitrophenol	139	7.099	7.099	0.000	96	126078	10.0	10.1	
50 2,4-Dimethylphenol	107	7.131	7.131	0.000	76	230691	10.0	10.2	
52 Benzoic acid	122	7.190	7.190	0.000	82	143863	10.0	11.8	
53 Bis(2-chloroethoxy)methane	93	7.222	7.222	0.000	91	243180	10.0	9.98	
54 2,4-Dichlorophenol	162	7.334	7.334	0.000	96	198781	10.0	10.0	
56 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	94	222837	10.0	9.79	
58 Naphthalene	128	7.505	7.505	0.000	96	737413	10.0	10.1	
59 4-Chloroaniline	127	7.542	7.542	0.000	78	309114	10.0	10.6	
60 2,6-Dichlorophenol	162	7.558	7.558	0.000	94	205496	10.0	10.4	
62 Hexachlorobutadiene	225	7.628	7.628	0.000	76	132821	10.0	9.75	
64 Caprolactam	113	7.847	7.847	0.000	68	75469	10.0	11.4	
67 4-Chloro-3-methylphenol	107	8.002	8.002	0.000	92	224653	10.0	10.8	
69 2-Methylnaphthalene	142	8.178	8.178	0.000	83	552589	10.0	10.7	
71 1-Methylnaphthalene	142	8.274	8.274	0.000	83	533518	10.0	11.0	
72 Hexachlorocyclopentadiene	237	8.338	8.338	0.000	89	162955	10.0	9.39	
73 1,2,4,5-Tetrachlorobenzene	216	8.344	8.344	0.000	98	226297	10.0	8.70	
74 2,4,6-Trichlorophenol	196	8.445	8.445	0.000	92	164246	10.0	9.26	
75 2,4,5-Trichlorophenol	196	8.477	8.477	0.000	94	169696	10.0	9.02	
76 1,1'-Biphenyl	154	8.622	8.622	0.000	94	697906	10.0	9.30	
77 2-Chloronaphthalene	162	8.654	8.654	0.000	65	563816	10.0	9.27	
79 2-Nitroaniline	65	8.734	8.734	0.000	85	159851	10.0	9.25	
82 Dimethyl phthalate	163	8.889	8.889	0.000	98	608211	10.0	9.60	
83 1,3-Dinitrobenzene	168	8.926	8.926	0.000	87	97383	10.0	10.2	
84 2,6-Dinitrotoluene	165	8.953	8.953	0.000	71	141083	10.0	10.1	
85 Acenaphthylene	152	9.054	9.054	0.000	90	949426	10.0	9.85	
86 3-Nitroaniline	138	9.124	9.124	0.000	96	178601	10.0	10.5	
87 2,4-Dinitrophenol	184	9.220	9.220	0.000	55	171383	20.0	18.9	
88 Acenaphthene	153	9.225	9.225	0.000	87	574482	10.0	9.76	
89 4-Nitrophenol	109	9.263	9.263	0.000	78	176795	20.0	18.9	
91 2,4-Dinitrotoluene	165	9.343	9.343	0.000	90	189407	10.0	10.4	
93 Dibenzofuran	168	9.385	9.385	0.000	79	843098	10.0	9.98	
95 2,3,5,6-Tetrachlorophenol	232	9.460	9.460	0.000	91	161010	10.0	9.83	
96 2,3,4,6-Tetrachlorophenol	232	9.498	9.498	0.000	73	162731	10.0	10.1	
97 2-Naphthylamine	143	9.530	9.530	0.000	88	644683	10.0	10.7	
98 Diethyl phthalate	149	9.562	9.562	0.000	94	644427	10.0	9.96	
99 Hexadecane	57	9.567	9.567	0.000	90	486262	10.0	12.2	
100 4-Chlorophenyl phenyl ethe	204	9.695	9.695	0.000	96	307132	10.0	9.91	
101 4-Nitroaniline	138	9.711	9.711	0.000	67	177455	10.0	10.6	
103 Fluorene	166	9.717	9.717	0.000	79	674488	10.0	10.3	
104 4,6-Dinitro-2-methylphenol	198	9.738	9.738	0.000	54	234977	20.0	19.4	
105 N-Nitrosodiphenylamine	169	9.808	9.808	0.000	61	506137	10.0	9.55	
90 1,2-Diphenylhydrazine	77	9.850	9.850	0.000	99	731423	10.0	9.63	
110 4-Bromophenyl phenyl ether	248	10.171	10.171	0.000	64	181790	10.0	9.33	
112 Hexachlorobenzene	284	10.262	10.262	0.000	93	180570	10.0	9.27	
113 Atrazine	200	10.288	10.288	0.000	71	161072	10.0	10.5	
116 Pentachlorophenol	266	10.438	10.438	0.000	81	249033	20.0	18.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.443	10.443	0.000	92	547662	10.0	13.6	
121 Phenanthrene	178	10.668	10.668	0.000	96	1083724	10.0	9.67	
122 Anthracene	178	10.716	10.716	0.000	97	1114795	10.0	9.73	
124 Carbazole	167	10.871	10.871	0.000	82	1039877	10.0	10.4	
126 Di-n-butyl phthalate	149	11.191	11.191	0.000	99	1278712	10.0	10.2	
57 Azobenzene	77		11.880				ND	ND	
131 Fluoranthene	202	12.073	12.073	0.000	98	1145744	10.0	10.1	
132 Benzidine	184	12.212	12.212	0.000	99	427951	10.0	9.08	
133 Pyrene	202	12.399	12.399	0.000	97	1200580	10.0	9.92	
138 Butyl benzyl phthalate	149	13.317	13.317	0.000	97	566446	10.0	10.5	
144 3,3'-Dichlorobenzidine	252	14.311	14.311	0.000	67	355560	10.0	10.0	
145 Bis(2-ethylhexyl) phthalat	149	14.364	14.364	0.000	96	787584	10.0	10.6	
146 Benzo[a]anthracene	228	14.386	14.386	0.000	98	1041496	10.0	9.81	
147 Chrysene	228	14.455	14.455	0.000	94	1027690	10.0	10.3	
150 Di-n-octyl phthalate	149	15.668	15.668	0.000	99	1349749	10.0	10.4	
151 7,12-Dimethylbenz(a)anthra	256	16.512	16.512	0.000	71	401586	10.0	8.74	
152 Benzo[b]fluoranthene	252	16.528	16.528	0.000	93	982707	10.0	9.10	
153 Benzo[k]fluoranthene	252	16.581	16.581	0.000	98	1059585	10.0	10.0	
219 Benzo[e]pyrene	252	17.089	17.089	0.000	0	944661	10.0	9.70	
154 Benzo[a]pyrene	252	17.191	17.191	0.000	77	964481	10.0	9.92	
157 Indeno[1,2,3-cd]pyrene	276	19.675	19.675	0.000	94	1031139	10.0	10.1	
158 Dibenz(a,h)anthracene	278	19.707	19.707	0.000	83	853502	10.0	10.0	
159 Benzo[g,h,i]perylene	276	20.358	20.358	0.000	87	889195	10.0	10.2	
S 197 Methyl Phenols,Total	108				0		20.0	20.7	
S 199 Total Cresols	108				0		20.0	20.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SVTAPSTD10i_00103 Amount Added: 1.00 Units: mL

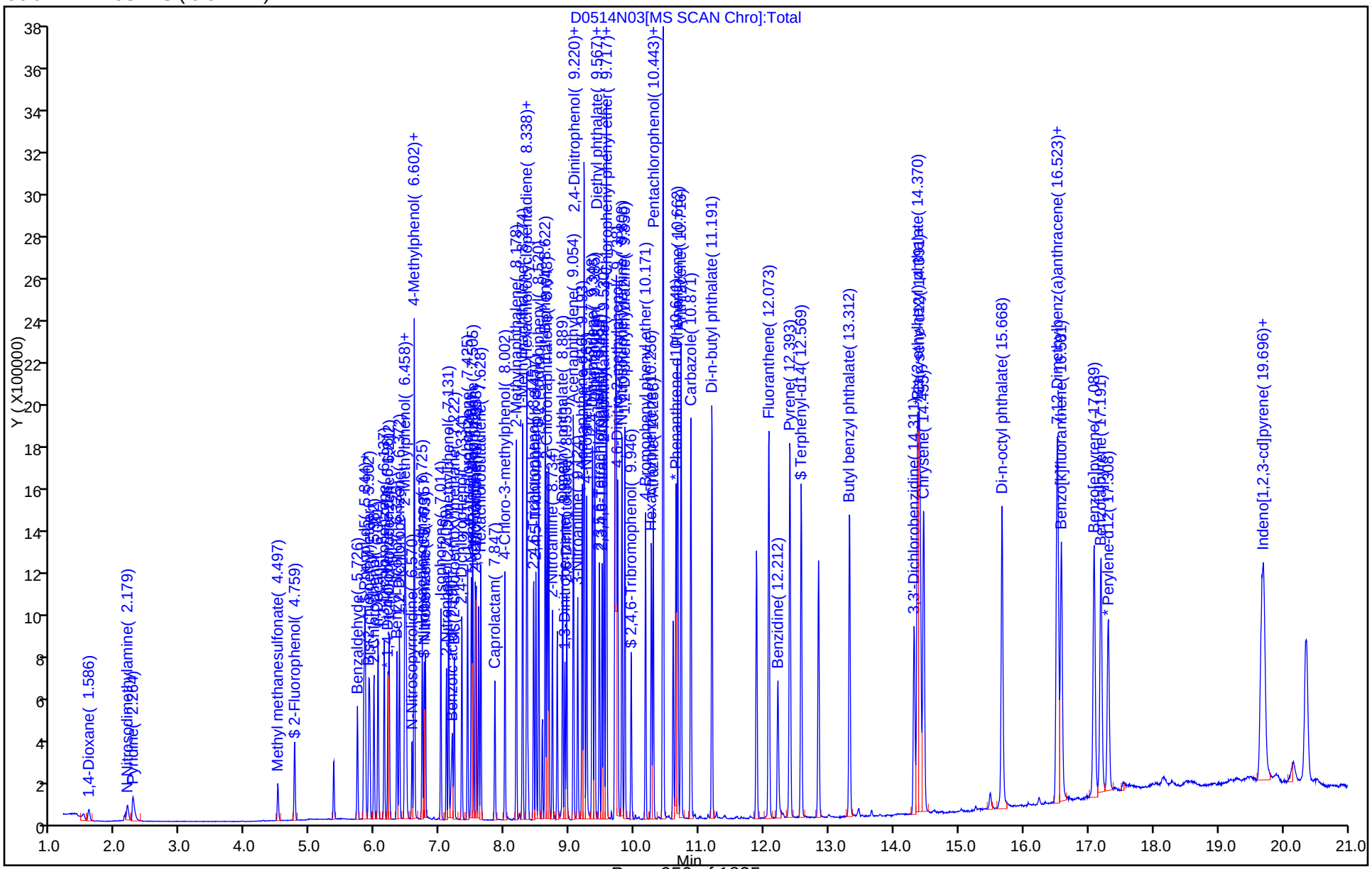
Report Date: 15-May-2015 03:56:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N03.D

Injection Date:	14-May-2015 12:36:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141716/3 Calibration Date: 05/15/2015 13:18

Instrument ID: CH732 Calib Start Date: 02/03/2015 05:53

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 02/03/2015 09:00

Lab File ID: D0515N03.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.3186	0.3062	0.0100	4.80	5.00	-3.9	20.0
N-Nitrosodimethylamine	Ave	0.4305	0.4151	0.0100	4.82	5.00	-3.6	20.0
Pyridine	Ave	0.7509	0.7243	0.0100	4.82	5.00	-3.5	20.0
Methyl methanesulfonate	Ave	0.6060	0.6407	0.0100	5.29	5.00	5.7	20.0
Benzaldehyde	Ave	0.6754	0.7712	0.0100	5.71	5.00	14.2	20.0
Phenol	Ave	1.587	1.540	0.8000	4.85	5.00	-2.9	20.0
Aniline	Ave	1.756	1.709	0.0100	4.87	5.00	-2.7	20.0
Bis(2-chloroethyl)ether	Ave	1.120	1.103	0.7000	4.93	5.00	-1.5	20.0
2-Chlorophenol	Ave	1.355	1.367	0.8000	5.04	5.00	0.8	20.0
n-Decane	Ave	1.590	1.476		4.64	5.00	-7.1	20.0
1,3-Dichlorobenzene	Ave	1.578	1.570	0.0100	4.97	5.00	-0.5	20.0
1,4-Dichlorobenzene	Ave	1.619	1.575	0.0100	4.86	5.00	-2.7	20.0
Benzyl alcohol	Ave	0.8521	0.8375	0.0100	4.91	5.00	-1.7	20.0
1,2-Dichlorobenzene	Ave	1.574	1.568	0.0100	4.98	5.00	-0.4	20.0
2-Methylphenol	Ave	1.204	1.210	0.7000	5.03	5.00	0.6	20.0
Indene	Ave	2.185	2.200	0.0100	5.03	5.00	0.6	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.359	2.270	0.0100	4.81	5.00	-3.8	20.0
N-Nitrosopyrrolidine	Ave	0.5864	0.6211	0.0100	5.30	5.00	5.9	20.0
Acetophenone	Ave	1.815	1.821	0.0100	5.02	5.00	0.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.8551	0.8726	0.5000	5.10	5.00	2.0	20.0
Methylphenol, 3 & 4	Ave	1.236	1.258	0.6000	5.09	5.00	1.8	20.0
Hexachloroethane	Ave	0.7013	0.7445	0.3000	5.31	5.00	6.2	20.0
Nitrobenzene	Ave	0.3334	0.3270	0.2000	4.90	5.00	-1.9	20.0
Isophorone	Ave	0.5870	0.5611	0.4000	4.78	5.00	-4.4	20.0
2-Nitrophenol	Ave	0.1845	0.1869	0.1000	5.06	5.00	1.3	20.0
2,4-Dimethylphenol	Ave	0.3367	0.3359	0.2000	4.99	5.00	-0.2	20.0
Benzoic acid	Lin1		0.2067	0.0100	5.75	5.00	14.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.3611	0.3465	0.3000	4.80	5.00	-4.1	20.0
2,4-Dichlorophenol	Ave	0.2941	0.2952	0.2000	5.02	5.00	0.4	20.0
1,2,4-Trichlorobenzene	Ave	0.3374	0.3319	0.0100	4.92	5.00	-1.6	20.0
Naphthalene	Ave	1.082	1.069	0.7000	4.94	5.00	-1.2	20.0
4-Chloroaniline	Ave	0.4336	0.4474	0.0100	5.16	5.00	3.2	20.0
2,6-Dichlorophenol	Ave	0.2924	0.3029	0.0100	5.18	5.00	3.6	20.0
Hexachlorobutadiene	Ave	0.2019	0.2022	0.0100	5.01	5.00	0.1	20.0
Caprolactam	Ave	0.0985	0.1055	0.0100	5.36	5.00	7.1	20.0
4-Chloro-3-methylphenol	Ave	0.3085	0.3254	0.2000	5.27	5.00	5.5	20.0
2-Methylnaphthalene	Ave	0.7654	0.8014	0.4000	5.24	5.00	4.7	20.0
1-Methylnaphthalene	Ave	0.7177	0.7776	0.0100	5.42	5.00	8.3	20.0
Hexachlorocyclopentadiene	Ave	0.3480	0.3355	0.0500	4.82	5.00	-3.6	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5214	0.4478	0.0100	4.29	5.00	-14.1	20.0
2,4,6-Trichlorophenol	Ave	0.3558	0.3348	0.2000	4.71	5.00	-5.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141716/3 Calibration Date: 05/15/2015 13:18

Instrument ID: CH732 Calib Start Date: 02/03/2015 05:53

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 02/03/2015 09:00

Lab File ID: D0515N03.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.3774	0.3572	0.2000	4.73	5.00	-5.3	20.0
1,1'-Biphenyl	Ave	1.505	1.403	0.0100	4.66	5.00	-6.8	20.0
2-Chloronaphthalene	Ave	1.220	1.131	0.8000	4.64	5.00	-7.3	20.0
2-Nitroaniline	Ave	0.3466	0.3339	0.0100	4.82	5.00	-3.6	20.0
Dimethyl phthalate	Ave	1.270	1.218	0.0100	4.79	5.00	-4.1	20.0
1,3-Dinitrobenzene	Ave	0.1913	0.1970	0.0100	5.15	5.00	2.9	20.0
2,6-Dinitrotoluene	Ave	0.2790	0.2790	0.2000	5.00	5.00	-0.0	20.0
Acenaphthylene	Ave	1.934	1.894	0.9000	4.90	5.00	-2.1	20.0
3-Nitroaniline	Ave	0.3396	0.3492	0.0100	5.14	5.00	2.8	20.0
2,4-Dinitrophenol	Lin1		0.1717	0.0100	9.46	10.0	-5.4	20.0
Acenaphthene	Ave	1.181	1.149	0.9000	4.87	5.00	-2.7	20.0
4-Nitrophenol	Ave	0.1879	0.1848	0.0100	9.84	10.0	-1.6	20.0
2,4-Dinitrotoluene	Ave	0.3667	0.3759	0.2000	5.13	5.00	2.5	20.0
Dibenzofuran	Ave	1.694	1.689	0.8000	4.99	5.00	-0.3	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.3283	0.3341	0.0100	5.09	5.00	1.7	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3217	0.3260	0.0100	5.07	5.00	1.4	20.0
2-Naphthylamine	Ave	1.207	1.252	0.0100	5.19	5.00	3.7	20.0
Diethyl phthalate	Ave	1.298	1.279	0.0100	4.93	5.00	-1.4	20.0
Hexadecane	Ave	0.5903	0.6934		5.87	5.00	17.5	20.0
4-Chlorophenyl phenyl ether	Ave	0.6218	0.6243	0.4000	5.02	5.00	0.4	20.0
4-Nitroaniline	Ave	0.3352	0.3388	0.0100	5.05	5.00	1.1	20.0
Fluorene	Ave	1.318	1.331	0.9000	5.05	5.00	1.0	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1300	0.1263	0.0100	9.71	10.0	-2.9	20.0
N-Nitrosodiphenylamine	Ave	0.5683	0.5362	0.0100	4.72	5.00	-5.7	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.8141	0.7697	0.0100	4.73	5.00	-5.5	20.0
4-Bromophenyl phenyl ether	Ave	0.2089	0.1978	0.1000	4.73	5.00	-5.3	20.0
Hexachlorobenzene	Ave	0.2088	0.1881	0.1000	4.51	5.00	-9.9	20.0
Atrazine	Ave	0.1650	0.1674	0.0100	5.07	5.00	1.4	20.0
Pentachlorophenol	Ave	0.1472	0.1302	0.0500	8.85	10.0	-11.5	20.0
n-Octadecane	Ave	2.847	3.668		6.44	5.00	28.8*	20.0
Phenanthrene	Ave	1.202	1.155	0.7000	4.81	5.00	-3.9	20.0
Anthracene	Ave	1.229	1.180	0.7000	4.80	5.00	-4.0	20.0
Carbazole	Ave	1.076	1.063	0.0100	4.94	5.00	-1.2	20.0
Di-n-butyl phthalate	Ave	1.346	1.326	0.0100	4.93	5.00	-1.5	20.0
Fluoranthene	Ave	1.213	1.184	0.6000	4.88	5.00	-2.4	20.0
Benzidine	Lin1		0.4321	0.0100		5.00	-14.9	20.0
Pyrene	Ave	1.320	1.355	0.6000	5.13	5.00	2.7	20.0
Butyl benzyl phthalate	Ave	0.5863	0.6286	0.0100	5.36	5.00	7.2	20.0
3,3'-Dichlorobenzidine	Ave	0.3859	0.3763	0.0100	4.88	5.00	-2.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8121	0.8665	0.0100	5.34	5.00	6.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVIS 180-141716/3 Calibration Date: 05/15/2015 13:18

Instrument ID: CH732 Calib Start Date: 02/03/2015 05:53

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 02/03/2015 09:00

Lab File ID: D0515N03.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.158	1.156	0.8000	4.99	5.00	-0.1	20.0
Chrysene	Ave	1.091	1.090	0.7000	5.00	5.00	-0.0	20.0
Di-n-octyl phthalate	Ave	1.554	1.686	0.0100	5.42	5.00	8.4	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5519	0.4976	0.0100	4.51	5.00	-9.8	20.0
Benzo[b]fluoranthene	Ave	1.297	1.225	0.7000	4.72	5.00	-5.5	20.0
Benzo[k]fluoranthene	Ave	1.271	1.275	0.7000	5.02	5.00	0.3	20.0
Benzo[e]pyrene	Ave	1.169	1.185	0.0100	5.07	5.00	1.3	20.0
Benzo[a]pyrene	Ave	1.168	1.173	0.7000	5.02	5.00	0.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.229	1.187	0.5000	4.83	5.00	-3.4	20.0
Dibenz(a,h)anthracene	Ave	1.022	0.997	0.4000	4.88	5.00	-2.4	20.0
Benzo[g,h,i]perylene	Ave	1.048	1.026	0.5000	4.89	5.00	-2.2	20.0
2-Fluorophenol (Surr)	Ave	1.037	1.002		4.83	5.00	-3.4	20.0
Phenol-d5 (Surr)	Ave	1.397	1.414		5.06	5.00	1.2	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3358	0.3261		4.86	5.00	-2.9	20.0
2-Fluorobiphenyl	Ave	1.314	1.205		4.59	5.00	-8.3	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.0879	0.0799	0.0100	4.54	5.00	-9.2	20.0
Terphenyl-d14 (Surr)	Ave	0.8709	0.8771		5.04	5.00	0.7	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N03.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 15-May-2015 13:18:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006938-003
Misc. Info.: CCVIS
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\PITCHROM\ChromData\CH732\20150515-6938.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 18-May-2015 02:48:50 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: piccolinov Date: 15-May-2015 13:42:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.196	6.196	0.000	97	122194	8.00	8.00	
* 2 Naphthalene-d8	136	7.478	7.478	0.000	100	587376	8.00	8.00	
* 3 Acenaphthene-d10	164	9.177	9.177	0.000	91	428679	8.00	8.00	
* 4 Phenanthrene-d10	188	10.614	10.614	0.000	97	808629	8.00	8.00	
* 5 Chrysene-d12	240	14.354	14.354	0.000	96	728981	8.00	8.00	
* 6 Perylene-d12	264	17.239	17.239	0.000	96	619744	8.00	8.00	
$ 7 2-Fluorophenol	112	4.759	4.759	0.000	91	153057	10.0	9.66	
$ 8 Phenol-d5	99	5.822	5.822	0.000	94	215960	10.0	10.1	
$ 9 Nitrobenzene-d5	82	6.757	6.757	0.000	93	239439	10.0	9.71	
$ 10 2-Fluorobiphenyl	172	8.515	8.515	0.000	100	645756	10.0	9.17	
$ 11 2,4,6-Tribromophenol	330	9.930	9.930	0.000	88	80758	10.0	9.08	
$ 12 Terphenyl-d14	244	12.527	12.527	0.000	98	799221	10.0	10.1	
13 1,4-Dioxane	88	1.602	1.602	0.000	93	46770	10.0	9.61	
14 N-Nitrosodimethylamine	74	2.190	2.190	0.000	84	63399	10.0	9.64	
15 Pyridine	79	2.280	2.280	0.000	92	110630	10.0	9.65	
21 Methyl methanesulfonate	80	4.503	4.503	0.000	91	97864	10.0	10.6	
25 Benzaldehyde	77	5.726	5.726	0.000	89	117787	10.0	11.4	
26 Phenol	94	5.838	5.838	0.000	91	235288	10.0	9.71	
27 Aniline	93	5.849	5.849	0.000	97	261024	10.0	9.73	
29 Bis(2-chloroethyl)ether	93	5.918	5.918	0.000	93	168534	10.0	9.85	
30 2-Chlorophenol	128	5.982	5.982	0.000	96	208767	10.0	10.1	
31 n-Decane	43	6.047	6.047	0.000	92	225520	10.0	9.29	
32 1,3-Dichlorobenzene	146	6.137	6.137	0.000	96	239771	10.0	9.95	
33 1,4-Dichlorobenzene	146	6.218	6.218	0.000	92	240628	10.0	9.73	
34 Benzyl alcohol	108	6.335	6.335	0.000	89	127924	10.0	9.83	
35 1,2-Dichlorobenzene	146	6.372	6.372	0.000	95	239452	10.0	9.96	
36 2-Methylphenol	108	6.453	6.453	0.000	97	184883	10.0	10.1	
37 Indene	116	6.463	6.463	0.000	89	335975	10.0	10.1	
38 2,2'-oxybis[1-chloropropan	45	6.479	6.479	0.000	91	346762	10.0	9.62	
39 N-Nitrosopyrrolidine	100	6.570	6.570	0.000	80	94861	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.602	6.602	0.000	88	278184	10.0	10.0	
41 N-Nitrosodi-n-propylamine	70	6.602	6.602	0.000	78	133280	10.0	10.2	
42 4-Methylphenol	108	6.608	6.608	0.000	93	192124	10.0	10.2	
45 Hexachloroethane	117	6.725	6.725	0.000	97	113711	10.0	10.6	
46 Nitrobenzene	77	6.773	6.773	0.000	93	240111	10.0	9.81	
48 Isophorone	82	7.008	7.008	0.000	98	411960	10.0	9.56	
49 2-Nitrophenol	139	7.094	7.094	0.000	97	137191	10.0	10.1	
50 2,4-Dimethylphenol	107	7.131	7.131	0.000	97	246606	10.0	9.98	
52 Benzoic acid	122	7.190	7.190	0.000	92	151724	10.0	11.5	
53 Bis(2-chloroethoxy)methane	93	7.217	7.217	0.000	96	254379	10.0	9.59	
54 2,4-Dichlorophenol	162	7.334	7.334	0.000	95	216770	10.0	10.0	
56 1,2,4-Trichlorobenzene	180	7.420	7.420	0.000	94	243693	10.0	9.84	
58 Naphthalene	128	7.500	7.500	0.000	97	784982	10.0	9.88	
59 4-Chloroaniline	127	7.537	7.537	0.000	96	328470	10.0	10.3	
60 2,6-Dichlorophenol	162	7.553	7.553	0.000	96	222359	10.0	10.4	
62 Hexachlorobutadiene	225	7.623	7.623	0.000	97	148457	10.0	10.0	
64 Caprolactam	113	7.842	7.842	0.000	75	77476	10.0	10.7	
67 4-Chloro-3-methylphenol	107	7.997	7.997	0.000	97	238902	10.0	10.5	
69 2-Methylnaphthalene	142	8.167	8.167	0.000	92	588367	10.0	10.5	
71 1-Methylnaphthalene	142	8.269	8.269	0.000	93	570906	10.0	10.8	
72 Hexachlorocyclopentadiene	237	8.328	8.328	0.000	97	179800	10.0	9.64	
73 1,2,4,5-Tetrachlorobenzene	216	8.338	8.338	0.000	97	239927	10.0	8.59	
74 2,4,6-Trichlorophenol	196	8.435	8.435	0.000	94	179395	10.0	9.41	
75 2,4,5-Trichlorophenol	196	8.472	8.472	0.000	93	191417	10.0	9.47	
76 1,1'-Biphenyl	154	8.611	8.611	0.000	94	751620	10.0	9.32	
77 2-Chloronaphthalene	162	8.643	8.643	0.000	97	606009	10.0	9.27	
79 2-Nitroaniline	65	8.723	8.723	0.000	86	178932	10.0	9.64	
82 Dimethyl phthalate	163	8.878	8.878	0.000	99	652671	10.0	9.59	
83 1,3-Dinitrobenzene	168	8.910	8.910	0.000	84	105551	10.0	10.3	
84 2,6-Dinitrotoluene	165	8.942	8.942	0.000	94	149474	10.0	10.0	
85 Acenaphthylene	152	9.044	9.044	0.000	98	1015030	10.0	9.79	
86 3-Nitroaniline	138	9.108	9.108	0.000	95	187116	10.0	10.3	
87 2,4-Dinitrophenol	184	9.204	9.204	0.000	82	183958	20.0	18.9	
88 Acenaphthene	153	9.209	9.209	0.000	93	615815	10.0	9.73	
89 4-Nitrophenol	109	9.247	9.247	0.000	97	198083	20.0	19.7	
91 2,4-Dinitrotoluene	165	9.327	9.327	0.000	93	201446	10.0	10.3	
93 Dibenzofuran	168	9.369	9.369	0.000	96	905195	10.0	9.97	
95 2,3,5,6-Tetrachlorophenol	232	9.444	9.444	0.000	93	179005	10.0	10.2	
96 2,3,4,6-Tetrachlorophenol	232	9.482	9.482	0.000	75	174694	10.0	10.1	
97 2-Naphthylamine	143	9.514	9.514	0.000	97	670841	10.0	10.4	
98 Diethyl phthalate	149	9.546	9.546	0.000	98	685426	10.0	9.86	
99 Hexadecane	57	9.551	9.551	0.000	91	509096	10.0	11.7	
100 4-Chlorophenyl phenyl ethe	204	9.679	9.679	0.000	95	334501	10.0	10.0	
101 4-Nitroaniline	138	9.690	9.690	0.000	90	181548	10.0	10.1	
103 Fluorene	166	9.701	9.701	0.000	94	713186	10.0	10.1	
104 4,6-Dinitro-2-methylphenol	198	9.722	9.722	0.000	82	255339	20.0	19.4	
105 N-Nitrosodiphenylamine	169	9.786	9.786	0.000	62	541941	10.0	9.43	
90 1,2-Diphenylhydrazine	77	9.829	9.829	0.000	100	777981	10.0	9.45	
110 4-Bromophenyl phenyl ether	248	10.149	10.149	0.000	69	199961	10.0	9.47	
112 Hexachlorobenzene	284	10.240	10.240	0.000	92	190142	10.0	9.01	
113 Atrazine	200	10.267	10.267	0.000	90	169169	10.0	10.1	
116 Pentachlorophenol	266	10.411	10.411	0.000	93	263285	20.0	17.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.422	10.422	0.000	93	560317	10.0	12.9	
121 Phenanthrene	178	10.641	10.641	0.000	97	1167674	10.0	9.61	
122 Anthracene	178	10.694	10.694	0.000	97	1193220	10.0	9.60	
124 Carbazole	167	10.844	10.844	0.000	96	1074327	10.0	9.88	
126 Di-n-butyl phthalate	149	11.159	11.159	0.000	100	1340303	10.0	9.85	
57 Azobenzene	77		11.848				ND	ND	
131 Fluoranthene	202	12.035	12.035	0.000	98	1196764	10.0	9.76	
132 Benzidine	184	12.169	12.169	0.000	100	393727	10.0	8.51	
133 Pyrene	202	12.356	12.356	0.000	98	1234938	10.0	10.3	
138 Butyl benzyl phthalate	149	13.264	13.264	0.000	97	572805	10.0	10.7	
144 3,3'-Dichlorobenzidine	252	14.258	14.258	0.000	75	342847	10.0	9.75	
145 Bis(2-ethylhexyl) phthalat	149	14.300	14.300	0.000	97	789563	10.0	10.7	
146 Benzo[a]anthracene	228	14.332	14.332	0.000	99	1053428	10.0	9.99	
147 Chrysene	228	14.402	14.402	0.000	98	993292	10.0	10.0	
150 Di-n-octyl phthalate	149	15.604	15.604	0.000	99	1305872	10.0	10.8	
151 7,12-Dimethylbenz(a)anthra	256	16.448	16.448	0.000	91	385486	10.0	9.02	
152 Benzo[b]fluoranthene	252	16.464	16.464	0.000	99	949060	10.0	9.45	
153 Benzo[k]fluoranthene	252	16.517	16.517	0.000	98	987866	10.0	10.0	
219 Benzo[e]pyrene	252	17.025	17.025	0.000	0	918071	10.0	10.1	
154 Benzo[a]pyrene	252	17.126	17.126	0.000	80	908763	10.0	10.0	
157 Indeno[1,2,3-cd]pyrene	276	19.578	19.578	0.000	98	919378	10.0	9.66	
158 Dibenz(a,h)anthracene	278	19.616	19.616	0.000	89	772451	10.0	9.76	
159 Benzo[g,h,i]perylene	276	20.257	20.257	0.000	95	794543	10.0	9.78	
S 199 Total Cresols	108				0		20.0	20.2	
S 197 Methyl Phenols,Total	108				0		20.0	20.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SVTAPSTD10i_00103 Amount Added: 1.00 Units: mL

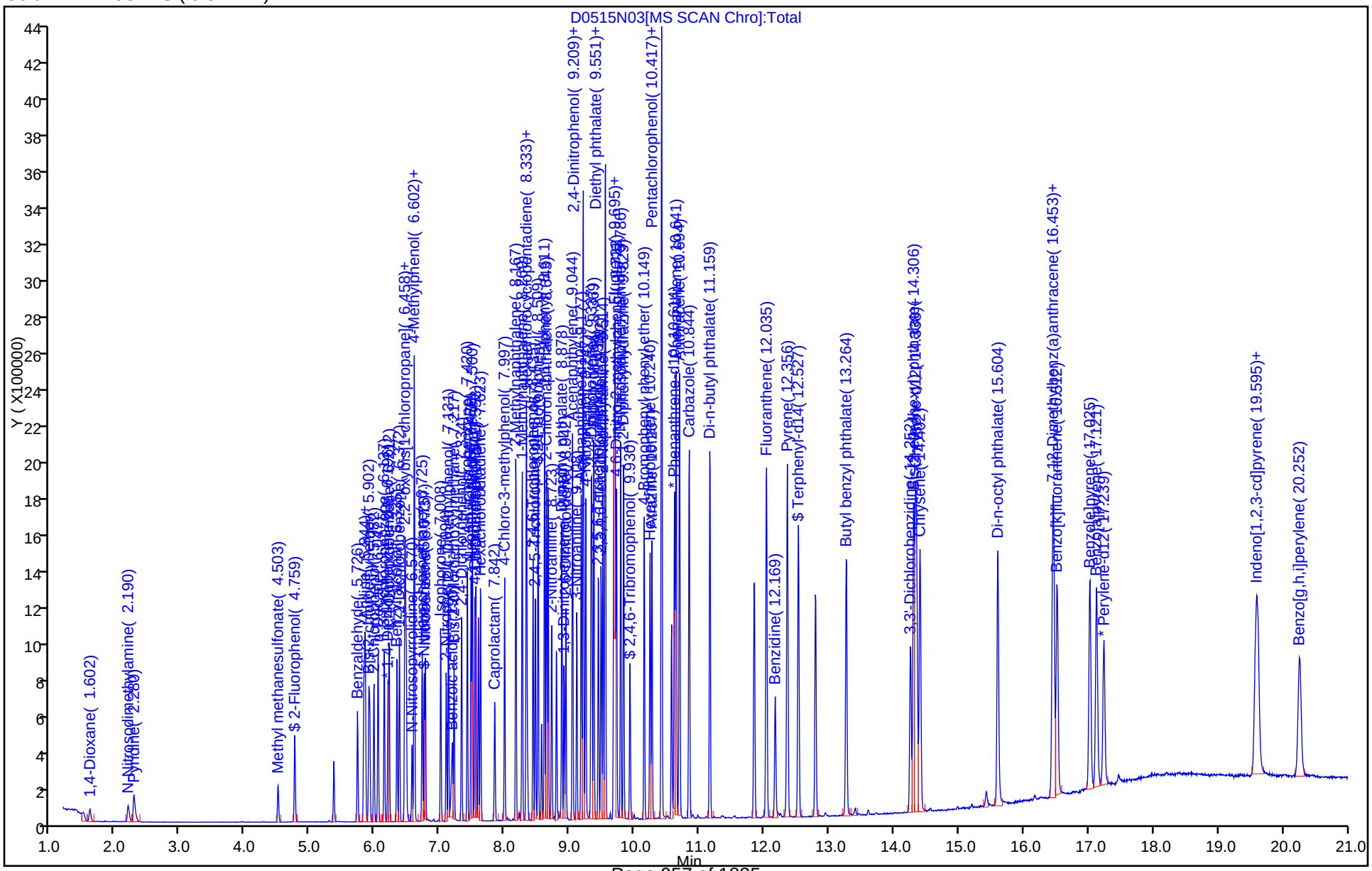
Report Date: 18-May-2015 02:48:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N03.D

Injection Date:	15-May-2015 13:18:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 03-Feb-2015 05:37:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0005518-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150203-5518.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 04-Feb-2015 06:46:42 Calib Date: 03-Feb-2015 09:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: piccolinov Date: 03-Feb-2015 06:00:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.541	5.541	0.000	90	228517	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.239	8.239	0.000	99	1731687	NR	NR	
192 4,4'-DDE	246		9.229					ND	
193 4,4'-DDD	235		9.644					ND	
194 4,4'-DDT	235	9.943	9.943	0.000	97	677011	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

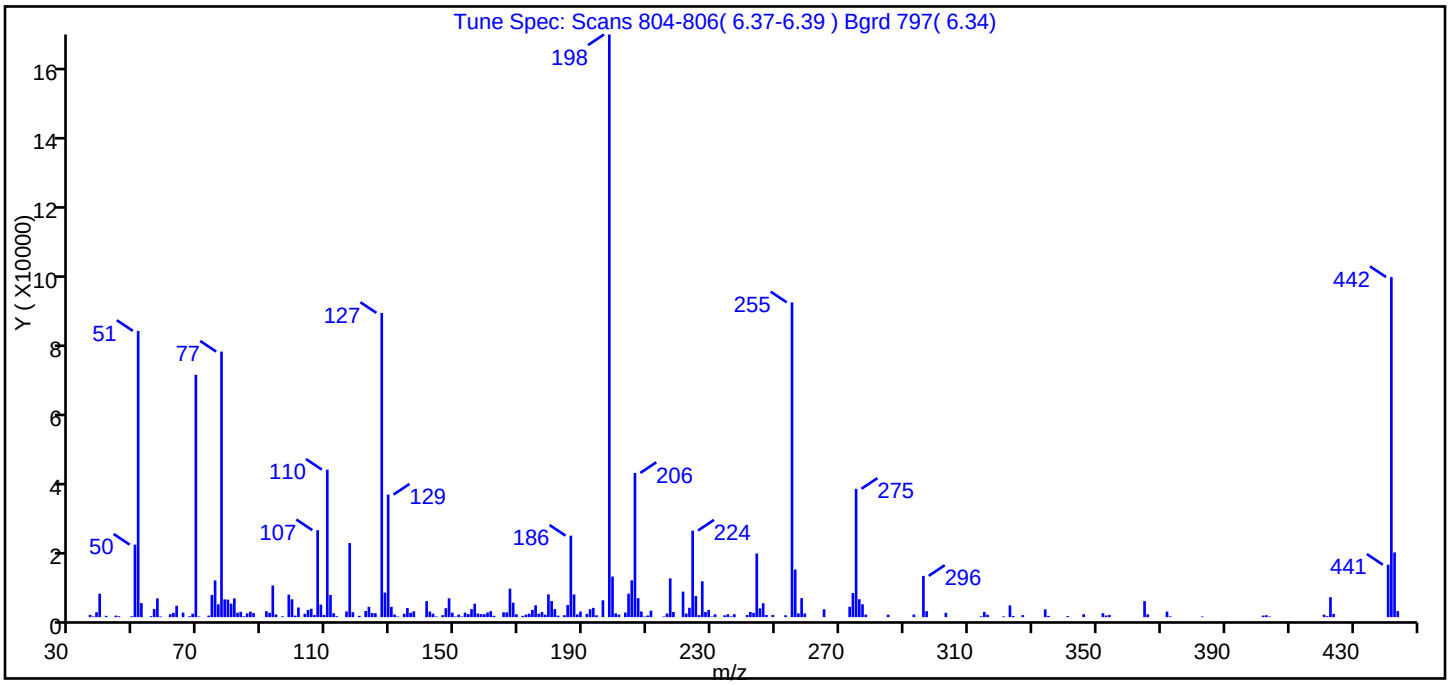
SVDFTPP50i_00021 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203002.D
Injection Date: 03-Feb-2015 05:37:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Tune Method: DFTPP Method 8270

190 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	49.1
68	<2% of mass 69	0.6 (1.4)
69	Present	41.6
70	<2% of mass 69	0.1 (0.3)
127	40-60% of mass 198	52.2
197	<1% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-30% of mass 198	22.0
365	>1% of mass 198	2.8
441	Present but less than mass 443	9.0 (81.1)
442	>40% of mass 198	58.4
443	17-23% of mass 442	11.1 (19.0)

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203002.D\BNA_CH732.rslt\spectra.d
Injection Date: 03-Feb-2015 05:37:30
Spectrum: Tune Spec: Scans 804-806(6.37-6.39) Bgrd 797(6.34)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 213

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	641	110.00	40888	177.00	1400	246.00	3858
37.00	196	111.00	6157	178.00	667	247.00	605
38.00	1360	112.00	1080	179.00	6308	249.00	622
39.00	6505	113.00	242	180.00	4481	253.00	526
41.00	369	116.00	1570	181.00	2224	255.00	87280
44.00	421	117.00	20536	182.00	417	256.00	13192
45.00	249	118.00	1372	184.00	535	257.00	1032
49.00	256	120.00	362	185.00	3363	258.00	5277
50.00	20104	122.00	1729	186.00	22592	259.00	1004
51.00	79360	123.00	2848	187.00	6291	265.00	2181
52.00	3890	124.00	1133	188.00	750	273.00	2868
55.00	253	125.00	1077	189.00	1549	274.00	6701
56.00	2253	127.00	84344	191.00	882	275.00	35584
57.00	5218	128.00	6813	192.00	2190	276.00	4965
58.00	174	129.00	33976	193.00	2577	277.00	3568
61.00	821	130.00	2850	194.00	515	278.00	695
62.00	1212	131.00	712	196.00	4671	285.00	675
63.00	3174	132.00	181	198.00	161536	293.00	716
65.00	1277	134.00	945	199.00	11241	296.00	11440
67.00	238	135.00	2536	200.00	1039	297.00	1667
68.00	928	136.00	1206	201.00	696	303.00	1188
69.00	67192	137.00	1611	203.00	1280	314.00	233
70.00	176	141.00	4442	204.00	6500	315.00	1463
73.00	435	142.00	1556	205.00	10201	316.00	675
74.00	6175	143.00	957	206.00	39976	321.00	215
75.00	10182	144.00	183	207.00	5259	323.00	3265
76.00	3546	146.00	553	208.00	1563	324.00	344
77.00	73616	147.00	2497	209.00	169	327.00	557
78.00	4918	148.00	5243	210.00	469	334.00	2160
79.00	4871	149.00	1234	211.00	1803	335.00	348
80.00	3741	150.00	167	215.00	179	341.00	288
81.00	5211	151.00	700	216.00	984	346.00	797
82.00	1226	152.00	199	217.00	10744	352.00	1104

Report Date: 04-Feb-2015 06:46:43 Chrom Revision: 2.2 15-Jan-2015 13:05:58
Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203002.D\BNA_CH732.rslt\spectra.d
Injection Date: 03-Feb-2015 05:37:30
Spectrum: Tune Spec: Scans 804-806(6.37-6.39) Bgrd 797(6.34)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 213

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	1487	153.00	1243	218.00	1420	353.00	451
84.00	226	154.00	840	221.00	7080	354.00	616
85.00	1037	155.00	2223	222.00	986	365.00	4455
86.00	1526	156.00	3721	223.00	2592	366.00	776
87.00	1130	157.00	990	224.00	24000	372.00	1542
91.00	1661	158.00	834	225.00	5857	373.00	224
92.00	1215	159.00	819	226.00	557	383.00	182
93.00	8770	160.00	1293	227.00	9937	402.00	444
94.00	734	161.00	1667	228.00	1431	403.00	539
96.00	231	162.00	386	229.00	2011	404.00	179
98.00	6243	165.00	1346	230.00	168	421.00	681
99.00	4952	166.00	1321	231.00	787	422.00	261
100.00	420	167.00	7901	234.00	504	423.00	5526
101.00	2667	168.00	4017	235.00	797	424.00	907
103.00	925	169.00	805	236.00	199	441.00	14539
104.00	1998	171.00	379	237.00	830	442.00	94288
105.00	2322	172.00	707	241.00	582	443.00	17936
106.00	566	173.00	958	242.00	1422	444.00	1672
107.00	24112	174.00	2018	243.00	1186		
108.00	3469	175.00	3293	244.00	17640		
109.00	621	176.00	949	245.00	2431		

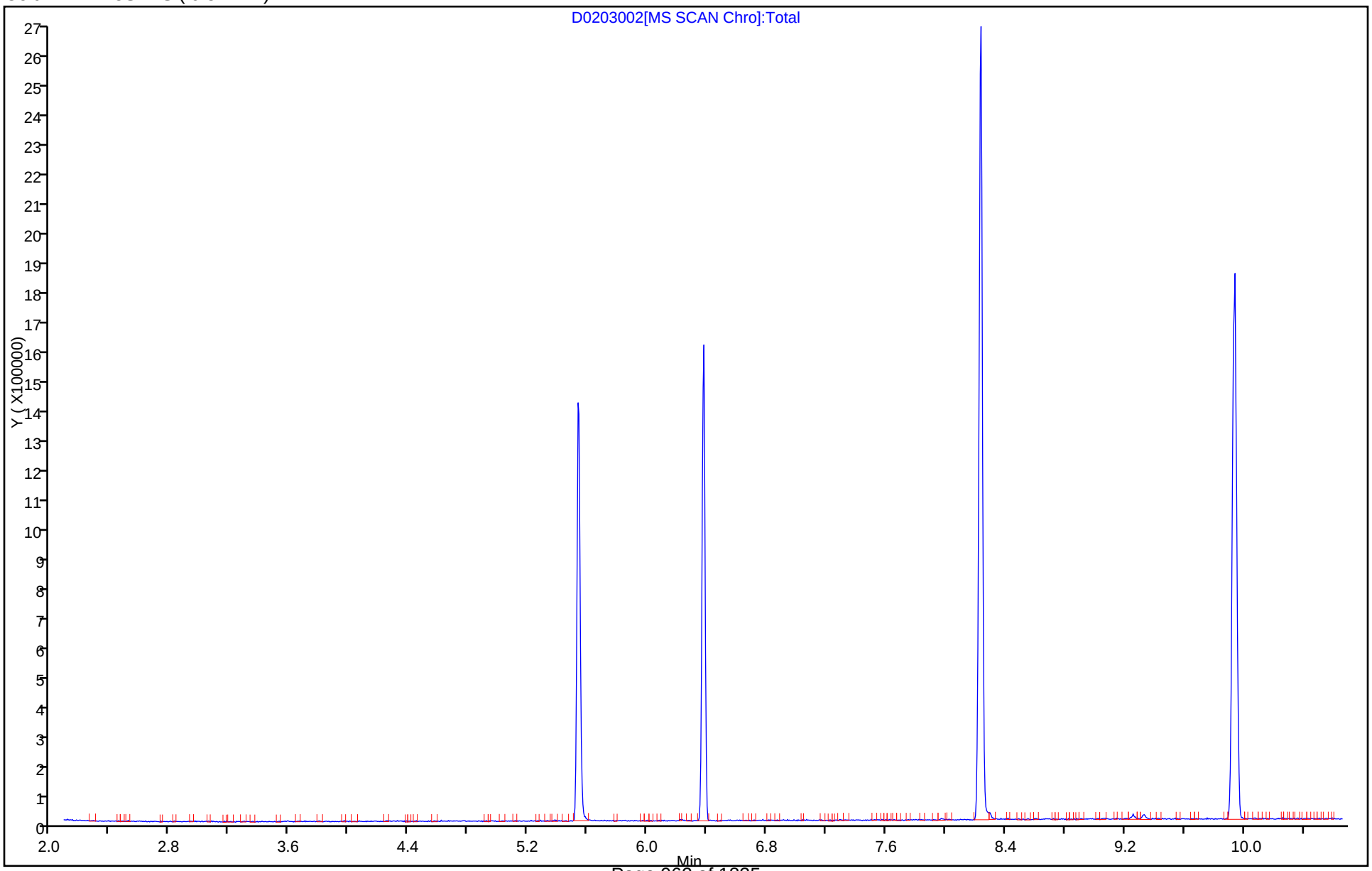
Report Date: 04-Feb-2015 06:46:43 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203002.D

Injection Date:	03-Feb-2015 05:37:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

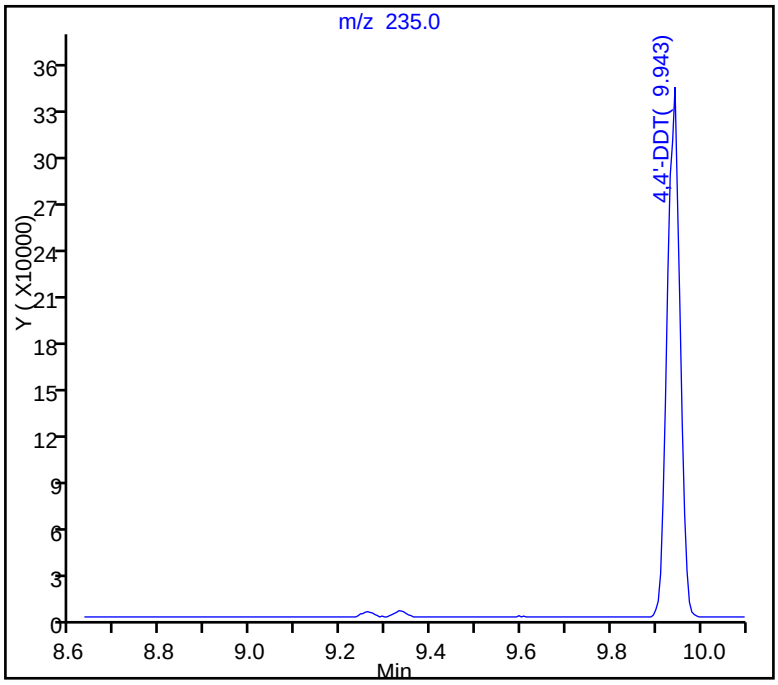


Breakdown Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203002.D
Injection Date: 03-Feb-2015 05:37:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

194 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

194 4,4'-DDT, Area = 677011
192 4,4'-DDE, Area = 0
193 4,4'-DDD, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

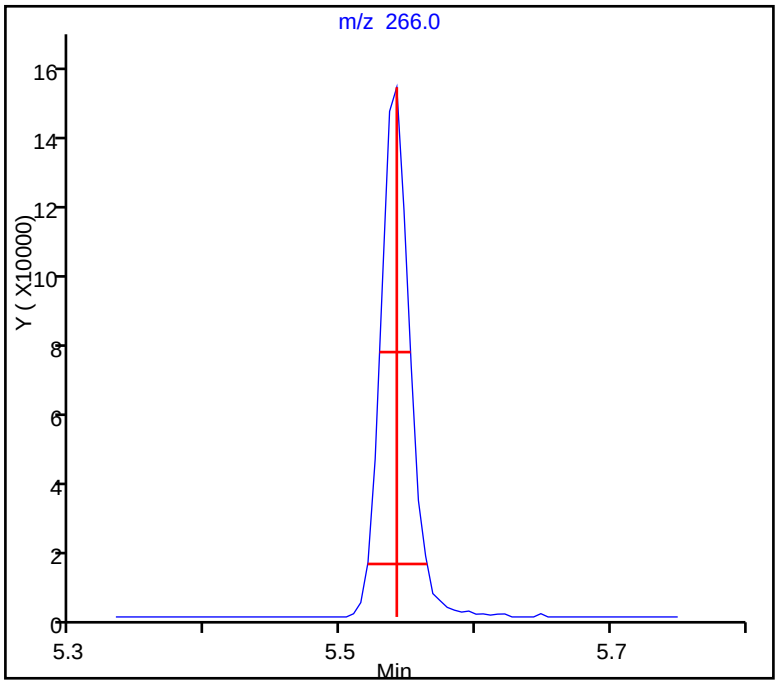
Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203002.D
Injection Date: 03-Feb-2015 05:37:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

189 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.023 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

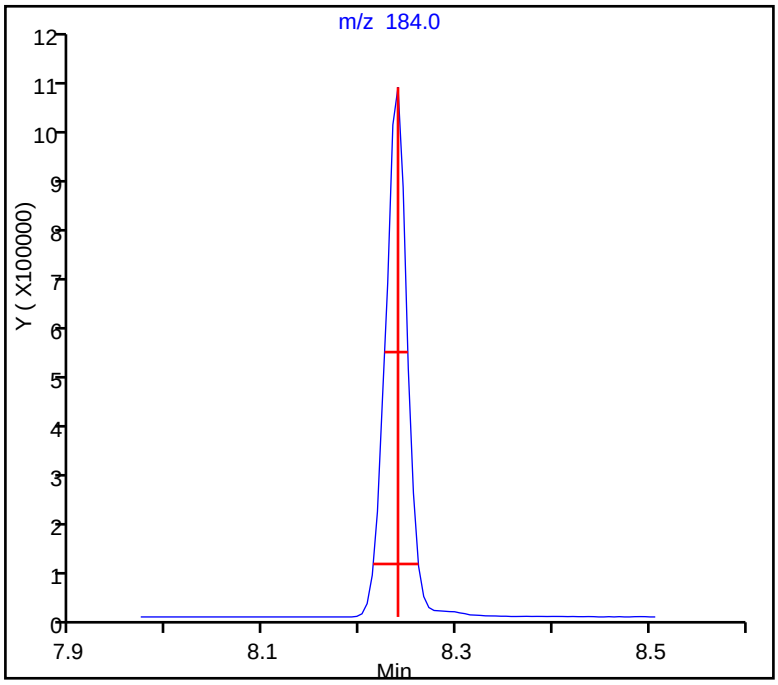
Data File: \\PITCHROM\ChromData\CH732\20150203-5518.b\D0203002.D
Injection Date: 03-Feb-2015 05:37:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

191 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.021 (min.)
Front Width = 0.026 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\PITCHROM\ChromData\CH732\20150512-6874.b\D0512002.D				
Lims ID:	DFTPP				
Client ID:					
Sample Type:	DFTPP				
Inject. Date:	12-May-2015 08:01:30	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Sample Info:	180-0006874-002				
Misc. Info.:	DFTPP				
Operator ID:	003200	Instrument ID:	CH732		
Method:	\\PITCHROM\ChromData\CH732\20150512-6874.b\BNA_CH732.m				
Limit Group:	BNA 8270D ICAL				
Last Update:	13-May-2015 05:25:51	Calib Date:	18-Mar-2015 11:54:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D				
Column 1 :	Rxi-5SilMS (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK016				
First Level Reviewer: piccolinov		Date:	12-May-2015 08:40:59		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.595	5.595	0.000	91	308871	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.250	8.250	0.000	100	2203515	NR	NR	
192 4,4'-DDE	246		8.790					ND	
193 4,4'-DDD	235	9.334	9.334	0.000	94	9043		NR	
194 4,4'-DDT	235	9.933	9.933	0.000	97	917519	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

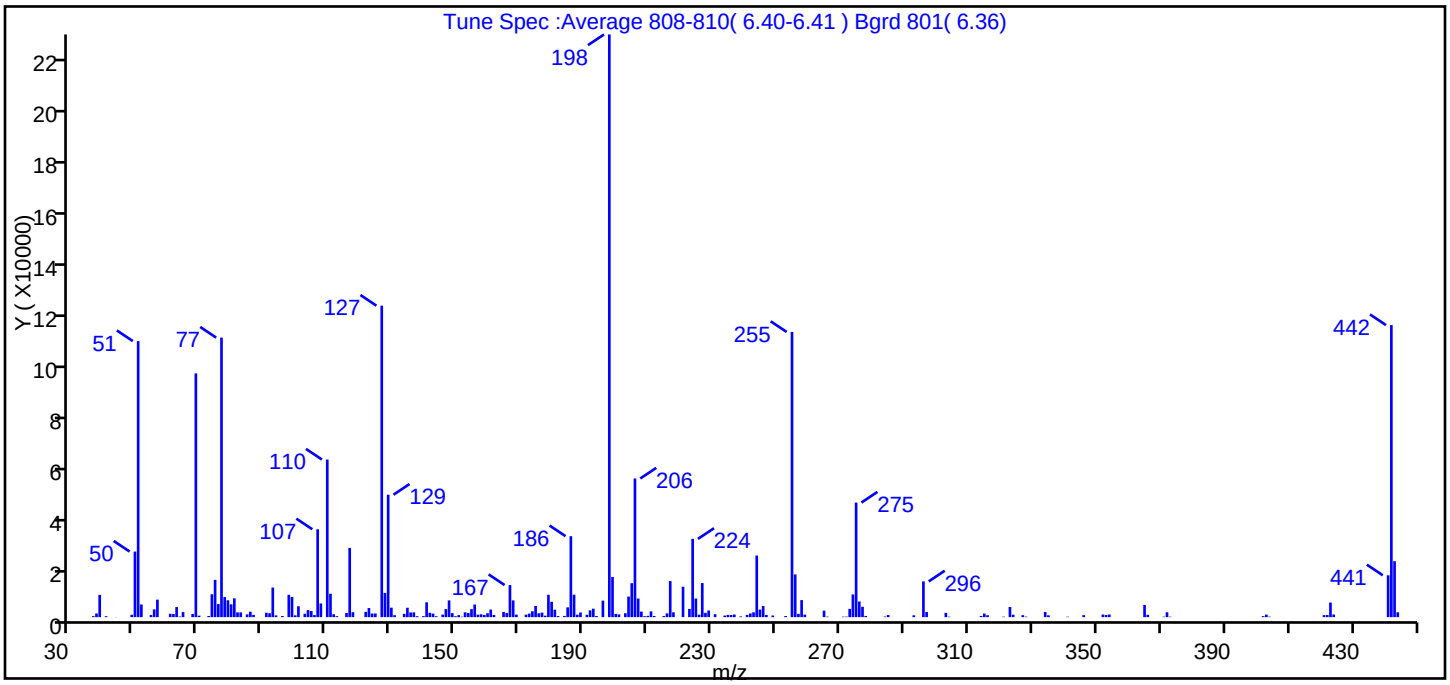
SVDFTPP50i_00022 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512002.D
Injection Date: 12-May-2015 08:01:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Tune Method: DFTPP Method 8270

190 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	47.4
68	<2% of mass 69	0.5 (1.3)
69	Present	41.8
70	<2% of mass 69	0.3 (0.6)
127	40-60% of mass 198	53.5
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-30% of mass 198	19.7
365	>1% of mass 198	2.1
441	Present but less than mass 443	7.2 (74.8)
442	>40% of mass 198	50.1
443	17-23% of mass 442	9.6 (19.2)

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512002.D\BNA_CH732.rslt\spectra.d
Injection Date: 12-May-2015 08:01:30
Spectrum: Tune Spec :Average 808-810(6.40-6.41) Bgrd 801(6.36)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 213

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	387	117.00	26616	184.00	470	257.00	1267
38.00	1412	118.00	1903	185.00	3762	258.00	6557
39.00	8563	122.00	2043	186.00	31136	259.00	983
41.00	366	123.00	3500	187.00	8638	265.00	2494
44.00	59	124.00	1385	188.00	940	266.00	184
49.00	901	125.00	1414	189.00	1797	271.00	189
50.00	25216	127.00	119768	191.00	908	272.00	195
51.00	106152	128.00	9312	192.00	2608	273.00	3181
52.00	4871	129.00	47080	193.00	3258	274.00	8734
55.00	799	130.00	3647	194.00	433	275.00	44064
56.00	3008	131.00	762	196.00	6348	276.00	6013
57.00	6731	134.00	1296	198.00	224064	277.00	3984
61.00	1310	135.00	3617	199.00	15434	278.00	465
62.00	1205	136.00	1803	200.00	1252	284.00	232
63.00	3886	137.00	1843	201.00	1059	285.00	811
64.00	227	138.00	367	203.00	1505	293.00	712
65.00	1955	140.00	391	204.00	7903	296.00	13751
68.00	1232	141.00	5709	205.00	13061	297.00	1987
69.00	93728	142.00	1692	206.00	53312	303.00	1645
70.00	578	143.00	1355	207.00	7158	304.00	169
73.00	446	144.00	346	208.00	2130	314.00	441
74.00	8803	146.00	967	209.00	360	315.00	1375
75.00	14337	147.00	3107	210.00	498	316.00	735
76.00	5038	148.00	6439	211.00	2221	321.00	186
77.00	107496	149.00	1541	212.00	449	323.00	3906
78.00	7718	150.00	360	215.00	420	324.00	932
79.00	6488	151.00	777	216.00	1445	327.00	749
80.00	4928	152.00	168	217.00	13881	328.00	197
81.00	7235	153.00	1861	218.00	1868	334.00	1993
82.00	1852	154.00	1610	221.00	11686	335.00	706
83.00	1827	155.00	3075	223.00	3165	341.00	174
85.00	1076	156.00	4852	224.00	30096	346.00	779
86.00	2096	157.00	954	225.00	7162	352.00	1002

Report Date: 13-May-2015 05:25:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512002.D\BNA_CH732.rslt\spectra.d
Injection Date: 12-May-2015 08:01:30
Spectrum: Tune Spec :Average 808-810(6.40-6.41) Bgrd 801(6.36)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 213

m/z	Y	m/z	Y	m/z	Y	m/z	Y
87.00	867	158.00	1103	226.00	934	353.00	834
91.00	1698	159.00	869	227.00	13110	354.00	1007
92.00	1510	160.00	1527	228.00	1647	365.00	4692
93.00	11372	161.00	2919	229.00	2559	366.00	899
94.00	683	162.00	855	231.00	1129	371.00	182
96.00	442	165.00	2005	234.00	597	372.00	1871
98.00	8592	166.00	1603	235.00	859	373.00	176
99.00	7760	167.00	12339	236.00	811	402.00	393
100.00	693	168.00	6436	237.00	1001	403.00	971
101.00	4188	169.00	980	239.00	279	404.00	184
103.00	1314	172.00	954	241.00	856	421.00	776
104.00	2724	173.00	1347	242.00	1417	422.00	810
105.00	2368	174.00	2271	243.00	1858	423.00	5598
106.00	784	175.00	4287	244.00	23688	424.00	1005
107.00	33784	176.00	1481	245.00	2915	441.00	16093
108.00	5264	177.00	1743	246.00	4272	442.00	112304
110.00	60600	178.00	563	247.00	836	443.00	21528
111.00	8983	179.00	8591	249.00	635	444.00	1884
112.00	1124	180.00	5910	253.00	442		
113.00	371	181.00	2875	255.00	109672		
116.00	1613	182.00	414	256.00	16440		

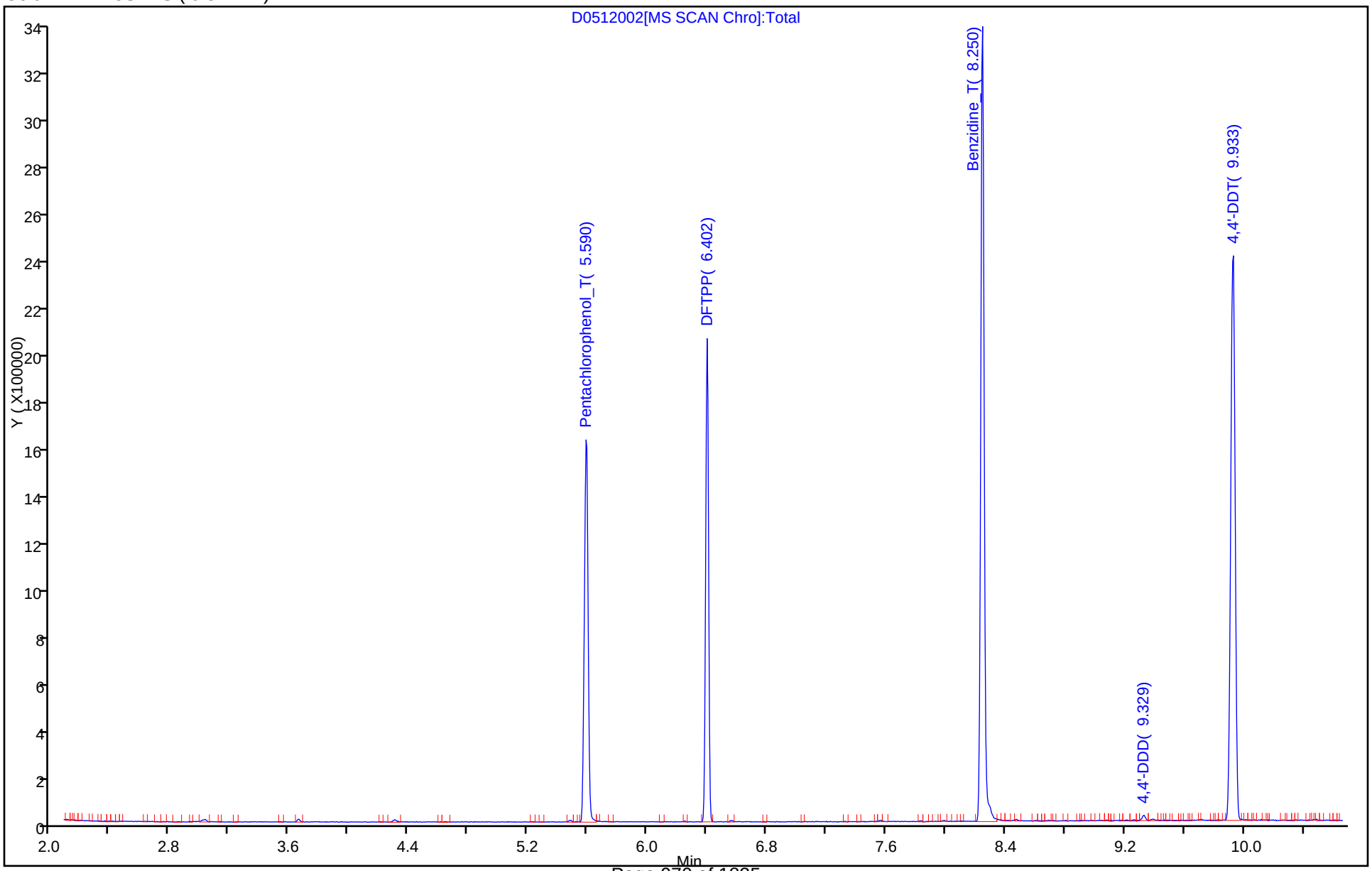
Report Date: 13-May-2015 05:25:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512002.D

Injection Date:	12-May-2015 08:01:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

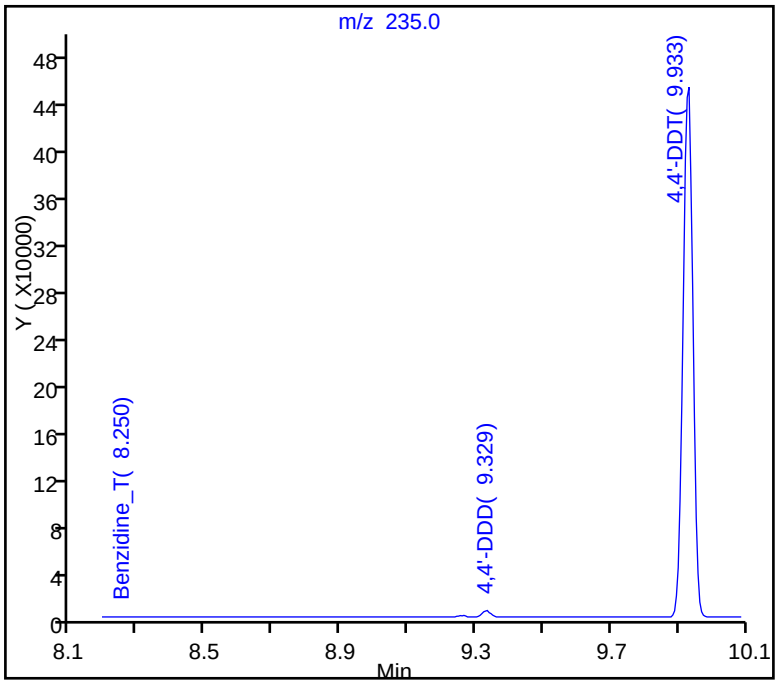


Breakdown Report

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150512-6874.b\D0512002.D				
Injection Date:	12-May-2015 08:01:30	Instrument ID:	CH732		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	003200	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

194 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

194 4,4'-DDT, Area = 917519
192 4,4'-DDE, Area = 0
193 4,4'-DDD, Area = 9043

%Breakdown: 0.98%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

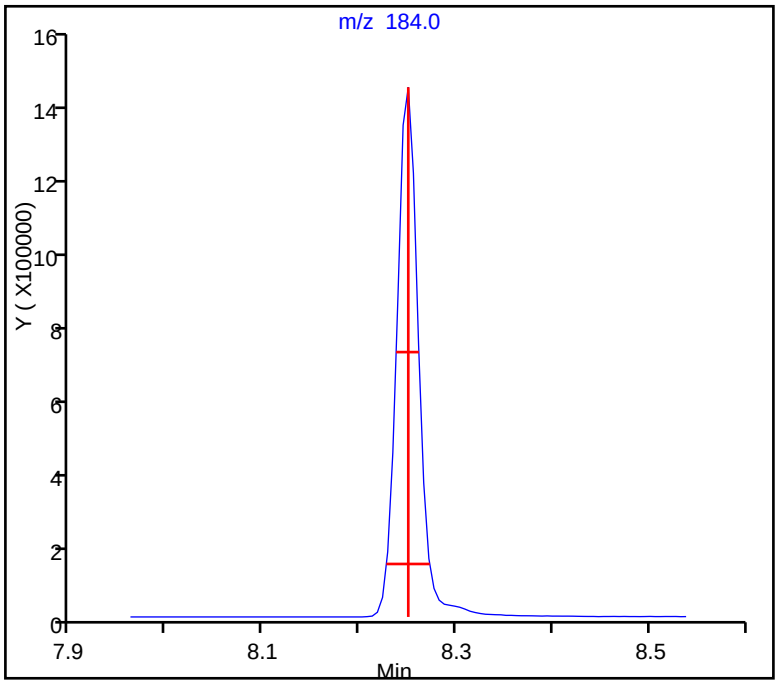
Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512002.D
Injection Date: 12-May-2015 08:01:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

191 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.022 (min.)
Front Width = 0.023 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

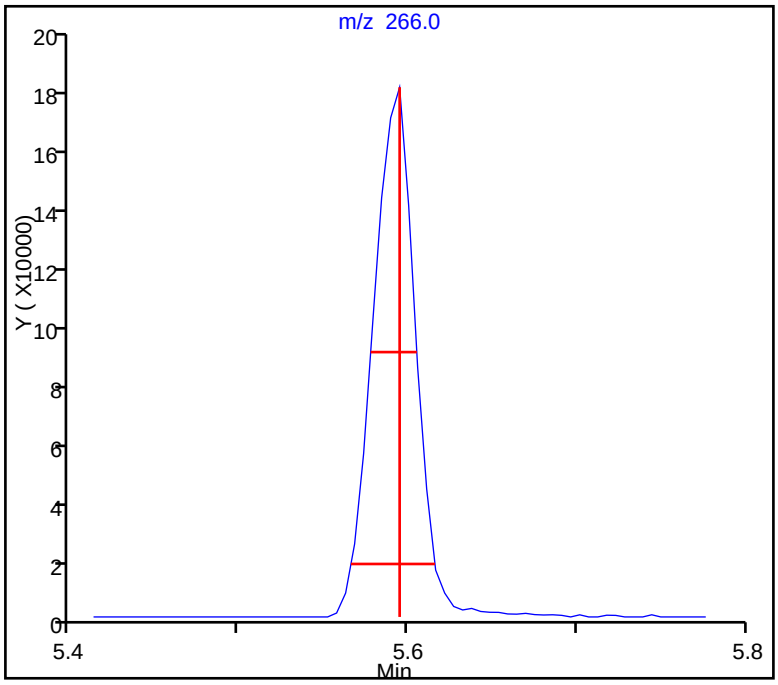
Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512002.D
Injection Date: 12-May-2015 08:01:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

189 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.021 (min.)
Front Width = 0.029 (min.)

Tailing Factor = 0.7, Max. Tailing < 2.00
Passed



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N02.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 14-May-2015 12:20:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006915-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150514-6915.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 15-May-2015 03:56:51 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: piccolinov Date: 14-May-2015 12:56:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.536	5.536	0.000	91	331284	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.197	8.197	0.000	100	2512470	NR	NR	
192 4,4'-DDE	246	8.560	8.560	0.000	1	1095		NR	
193 4,4'-DDD	235	9.270	9.270	0.000	93	11536		NR	
194 4,4'-DDT	235	9.863	9.863	0.000	97	1038791	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

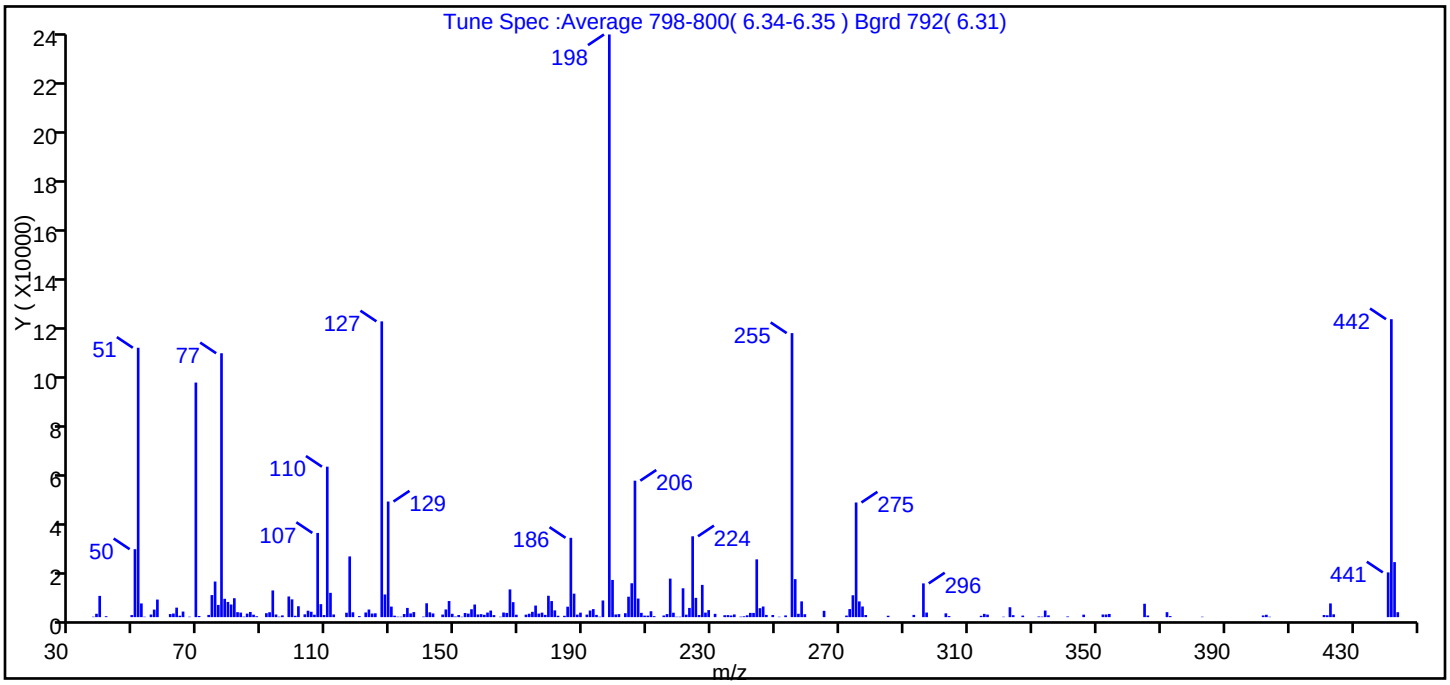
SVDFTPP50i_00022 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N02.D				
Injection Date:	14-May-2015 12:20:30	Instrument ID:	CH732		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	003200	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Tune Method:	DFTPP Method 8270				

190 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	46.2
68	<2% of mass 69	0.0 (0.0)
69	Present	40.3
70	<2% of mass 69	0.2 (0.5)
127	40-60% of mass 198	50.8
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.4
275	10-30% of mass 198	19.7
365	>1% of mass 198	2.3
441	Present but less than mass 443	7.7 (81.3)
442	>40% of mass 198	51.1
443	17-23% of mass 442	9.4 (18.5)

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N02.D\BNA_CH732.rslt\spectra.d
Injection Date: 14-May-2015 12:20:30
Spectrum: Tune Spec :Average 798-800(6.34-6.35) Bgrd 792(6.31)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	188	116.00	1799	182.00	571	249.00	876
38.00	1371	117.00	24696	184.00	549	251.00	166
39.00	8644	118.00	1969	185.00	4251	253.00	695
41.00	379	120.00	429	186.00	32264	255.00	115528
49.00	837	122.00	1892	187.00	9556	256.00	15458
50.00	27640	123.00	3098	188.00	1033	257.00	1365
51.00	109568	124.00	1466	189.00	1820	258.00	6411
52.00	5578	125.00	1560	191.00	1033	259.00	1189
53.00	167	127.00	120304	192.00	2694	265.00	2574
55.00	1063	128.00	9232	193.00	3276	272.00	644
56.00	3069	129.00	47024	194.00	916	273.00	3285
57.00	7152	130.00	4293	195.00	179	274.00	8909
61.00	1255	131.00	597	196.00	6778	275.00	46632
62.00	1468	132.00	188	198.00	236992	276.00	6400
63.00	3864	133.00	180	199.00	15133	277.00	4329
64.00	583	134.00	1261	200.00	1086	278.00	861
65.00	2278	135.00	3756	201.00	1232	285.00	569
67.00	186	136.00	1516	203.00	1601	293.00	917
69.00	95416	137.00	2060	204.00	8315	296.00	13728
70.00	470	140.00	224	205.00	13784	297.00	1866
73.00	909	141.00	5643	206.00	55504	303.00	1546
74.00	8978	142.00	1959	207.00	7565	304.00	432
75.00	14491	143.00	1499	208.00	1746	314.00	551
76.00	4970	146.00	1049	209.00	621	315.00	1325
77.00	107336	147.00	3121	210.00	618	316.00	1036
78.00	7462	148.00	6553	211.00	2405	321.00	170
79.00	6180	149.00	1368	212.00	396	323.00	4031
80.00	5148	150.00	239	215.00	664	324.00	805
81.00	7699	151.00	867	216.00	1244	327.00	630
82.00	2023	152.00	168	217.00	15669	332.00	263
83.00	1836	153.00	1695	218.00	1800	333.00	206
84.00	204	154.00	1441	219.00	172	334.00	2682
85.00	1437	155.00	3216	220.00	176	335.00	746

Report Date: 15-May-2015 03:56:52 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N02.D\BNA_CH732.rslt\spectra.d
Injection Date: 14-May-2015 12:20:30
Spectrum: Tune Spec :Average 798-800(6.34-6.35) Bgrd 792(6.31)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	2118	156.00	5135	221.00	11749	341.00	276
87.00	1000	157.00	1085	222.00	1002	346.00	1014
88.00	355	158.00	1221	223.00	3746	352.00	1071
91.00	1611	159.00	948	224.00	32888	353.00	1077
92.00	1999	160.00	1863	225.00	7849	354.00	1302
93.00	10859	161.00	2676	226.00	855	365.00	5447
94.00	1065	162.00	824	227.00	13119	366.00	664
95.00	187	164.00	166	228.00	1835	372.00	2026
96.00	708	165.00	1882	229.00	2870	373.00	431
98.00	8406	166.00	1724	231.00	1344	383.00	177
99.00	7230	167.00	11282	234.00	785	402.00	690
100.00	555	168.00	6093	235.00	824	403.00	969
101.00	4439	169.00	985	236.00	681	404.00	172
103.00	1145	172.00	1008	237.00	1101	421.00	866
104.00	2616	173.00	1383	239.00	203	422.00	764
105.00	2187	174.00	2161	240.00	342	423.00	5583
106.00	984	175.00	4710	241.00	748	424.00	1154
107.00	34248	176.00	1442	242.00	1731	441.00	18200
108.00	5285	177.00	1830	243.00	1716	442.00	121192
109.00	850	178.00	919	244.00	23504	443.00	22384
110.00	61200	179.00	8694	245.00	3648	444.00	2008
111.00	9887	180.00	6540	246.00	4327		
112.00	1079	181.00	2754	247.00	914		

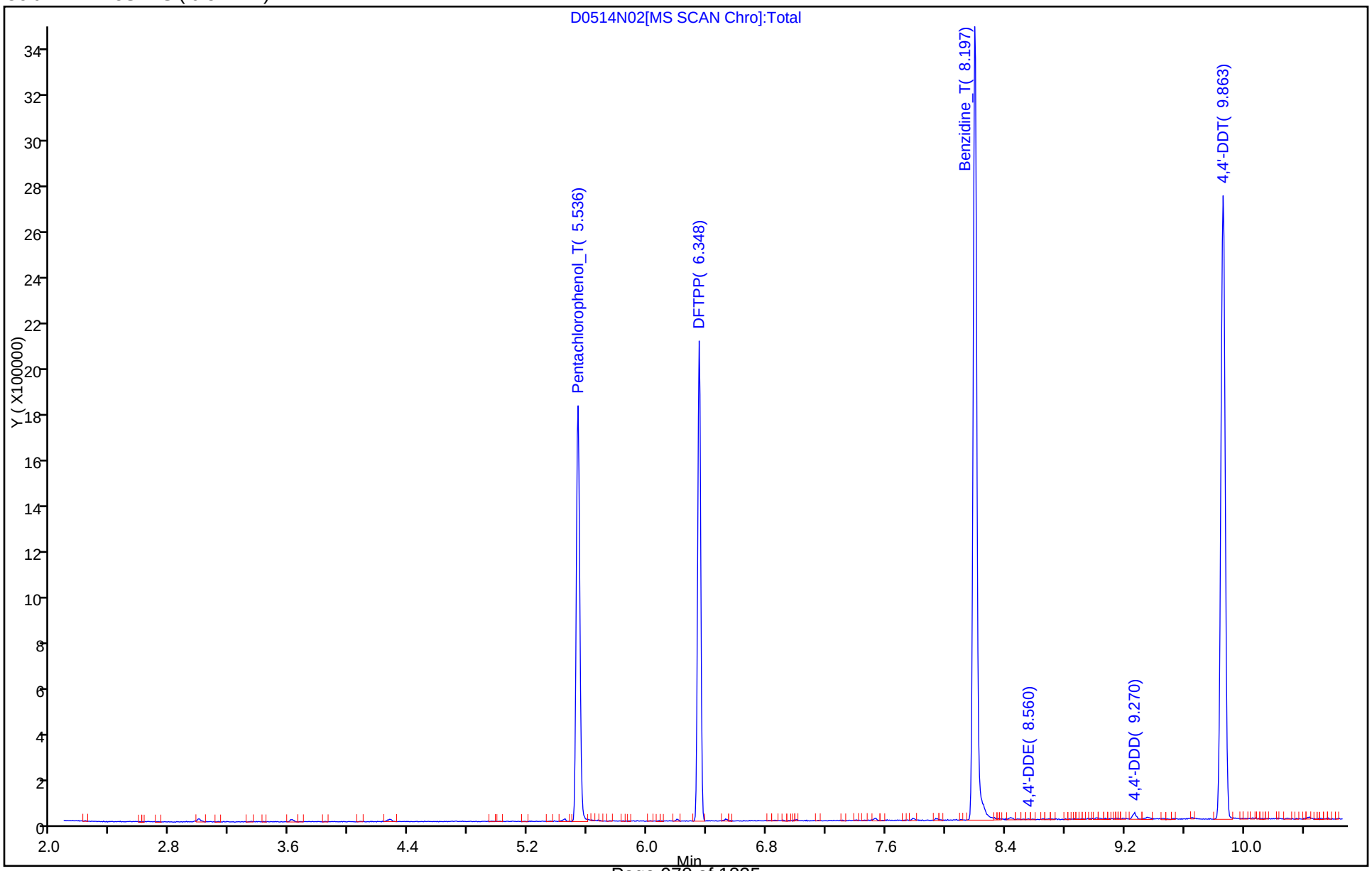
Report Date: 15-May-2015 03:56:52 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N02.D

Injection Date:	14-May-2015 12:20:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

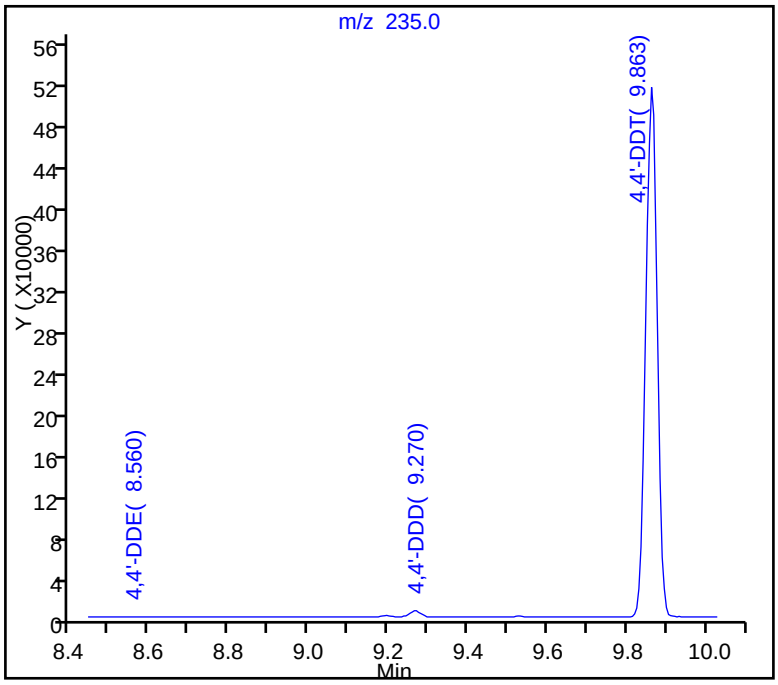


Breakdown Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N02.D
Injection Date: 14-May-2015 12:20:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

194 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

194 4,4'-DDT, Area = 1038791
192 4,4'-DDE, Area = 1095
193 4,4'-DDD, Area = 11536

%Breakdown: 1.20%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

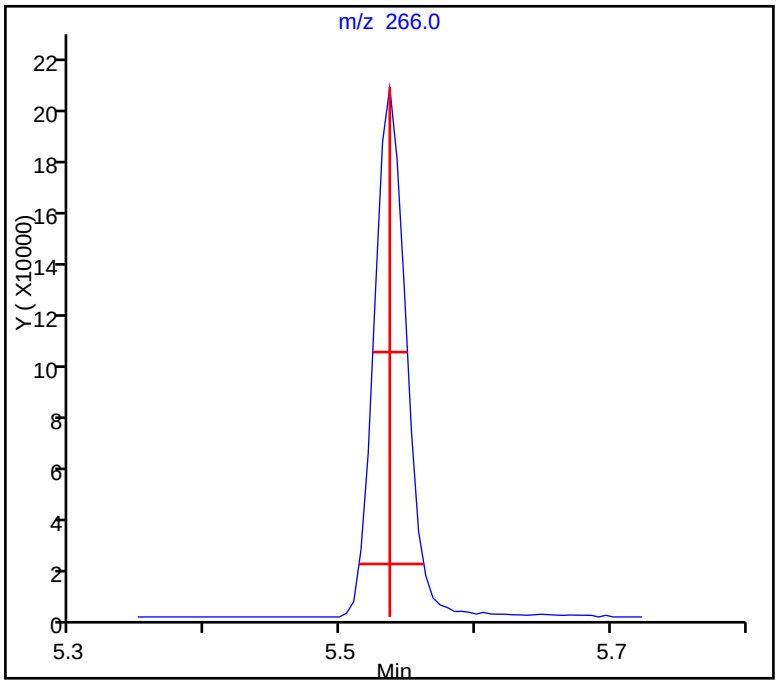
Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N02.D
Injection Date: 14-May-2015 12:20:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

189 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.025 (min.)
Front Width = 0.023 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

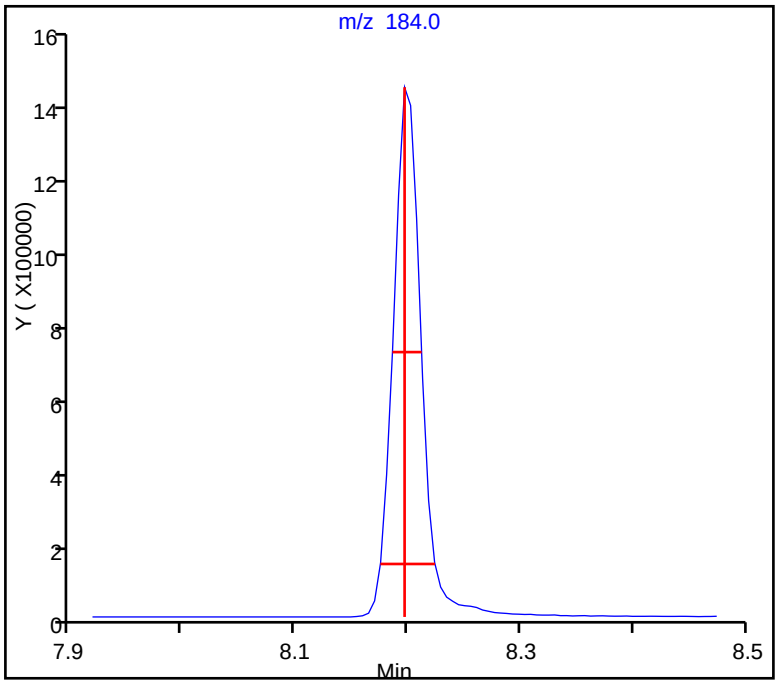
Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N02.D
Injection Date: 14-May-2015 12:20:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

191 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.027 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00
Passed



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N02.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 15-May-2015 13:02:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006938-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150515-6938.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 18-May-2015 02:48:49 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: piccolinov Date: 15-May-2015 13:34:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.542	5.542	0.000	90	294940	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.197	8.197	0.000	100	2267042	NR	NR	
192 4,4'-DDE	246		8.725					ND	
193 4,4'-DDD	235	9.265	9.265	0.000	93	11231		NR	
194 4,4'-DDT	235	9.858	9.858	0.000	97	953631	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

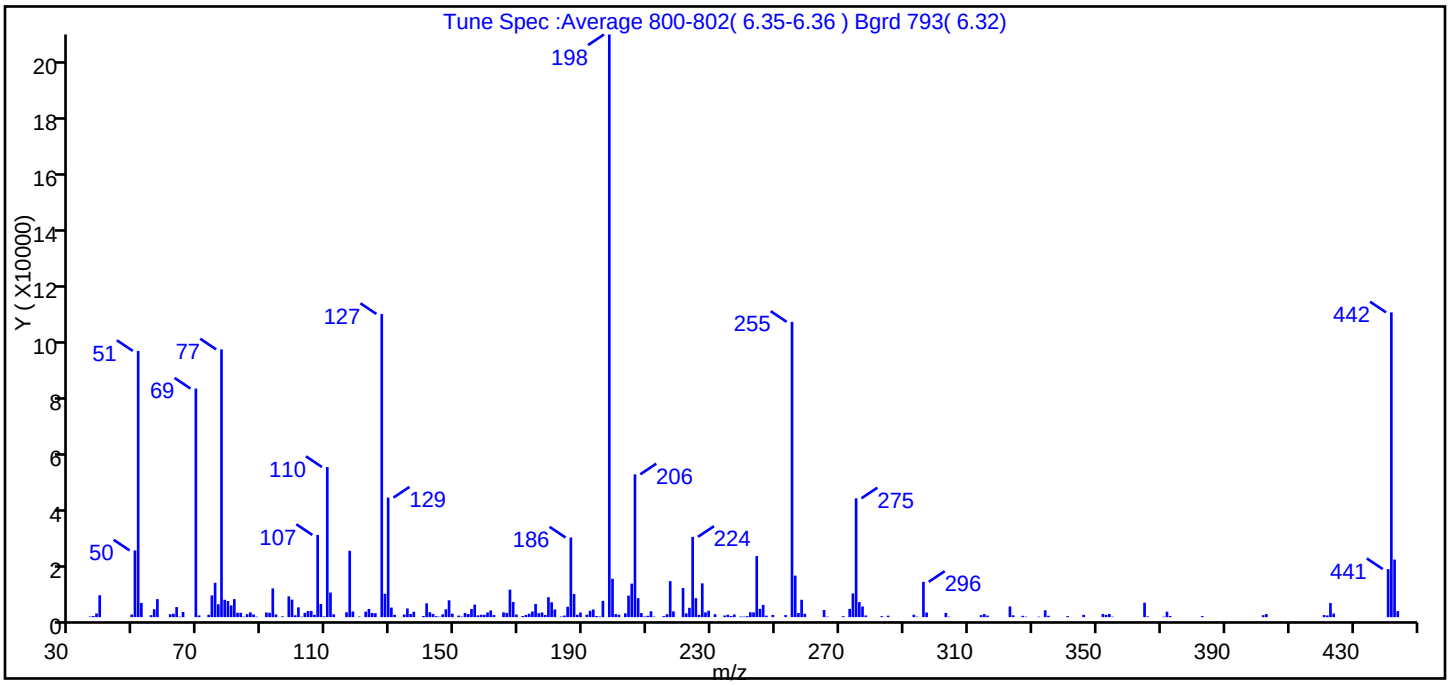
SVDFTPP50i_00022 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N02.D				
Injection Date:	15-May-2015 13:02:30	Instrument ID:	CH732		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	003200	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Tune Method:	DFTPP Method 8270				

190 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	45.7
68	<2% of mass 69	0.0 (0.0)
69	Present	39.2
70	<2% of mass 69	0.3 (0.7)
127	40-60% of mass 198	52.0
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.6
275	10-30% of mass 198	20.4
365	>1% of mass 198	2.5
441	Present but less than mass 443	8.2 (83.5)
442	>40% of mass 198	52.3
443	17-23% of mass 442	9.9 (18.9)

Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N02.D\BNA_CH732.rslt\spectra.d
Injection Date: 15-May-2015 13:02:30
Spectrum: Tune Spec :Average 800-802(6.35-6.36) Bgrd 793(6.32)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 219

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	221	117.00	23840	184.00	571	255.00	106064
37.00	397	118.00	2041	185.00	3741	256.00	14919
38.00	1316	120.00	202	186.00	28608	257.00	1459
39.00	7869	122.00	1982	187.00	8333	258.00	6241
49.00	917	123.00	2943	188.00	862	259.00	1215
50.00	23960	124.00	1498	189.00	1684	265.00	2565
51.00	95616	125.00	1417	191.00	888	266.00	177
52.00	5090	127.00	108888	192.00	2296	271.00	344
55.00	704	128.00	8391	193.00	2749	273.00	2964
56.00	2865	129.00	42944	194.00	400	274.00	8517
57.00	6479	130.00	3438	195.00	228	275.00	42680
61.00	1052	131.00	833	196.00	5847	276.00	5390
62.00	1230	134.00	946	198.00	209280	277.00	3834
63.00	3621	135.00	3126	199.00	13783	278.00	597
64.00	172	136.00	1129	200.00	1073	283.00	353
65.00	1884	137.00	1947	201.00	874	285.00	536
69.00	82096	140.00	430	203.00	1372	293.00	862
70.00	611	141.00	4955	204.00	7726	294.00	182
73.00	841	142.00	1779	205.00	12035	296.00	12686
74.00	7809	143.00	1168	206.00	51296	297.00	1642
75.00	12346	144.00	350	207.00	6822	303.00	1534
76.00	4622	145.00	169	208.00	1457	304.00	167
77.00	96168	146.00	997	209.00	230	314.00	734
78.00	6246	147.00	2802	210.00	500	315.00	1097
79.00	5787	148.00	6051	211.00	2101	316.00	566
80.00	4221	149.00	1248	212.00	179	323.00	3831
81.00	6467	151.00	558	215.00	370	324.00	661
82.00	1578	152.00	214	216.00	1043	327.00	475
83.00	1579	153.00	1519	217.00	12924	328.00	168
84.00	168	154.00	1114	218.00	2061	332.00	168
85.00	1062	155.00	2906	221.00	10467	334.00	2459
86.00	1717	156.00	4495	222.00	1343	335.00	485
87.00	966	157.00	633	223.00	3343	341.00	383

Report Date: 18-May-2015 02:48:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N02.D\BNA_CH732.rslt\spectra.d
Injection Date: 15-May-2015 13:02:30
Spectrum: Tune Spec :Average 800-802(6.35-6.36) Bgrd 793(6.32)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 219

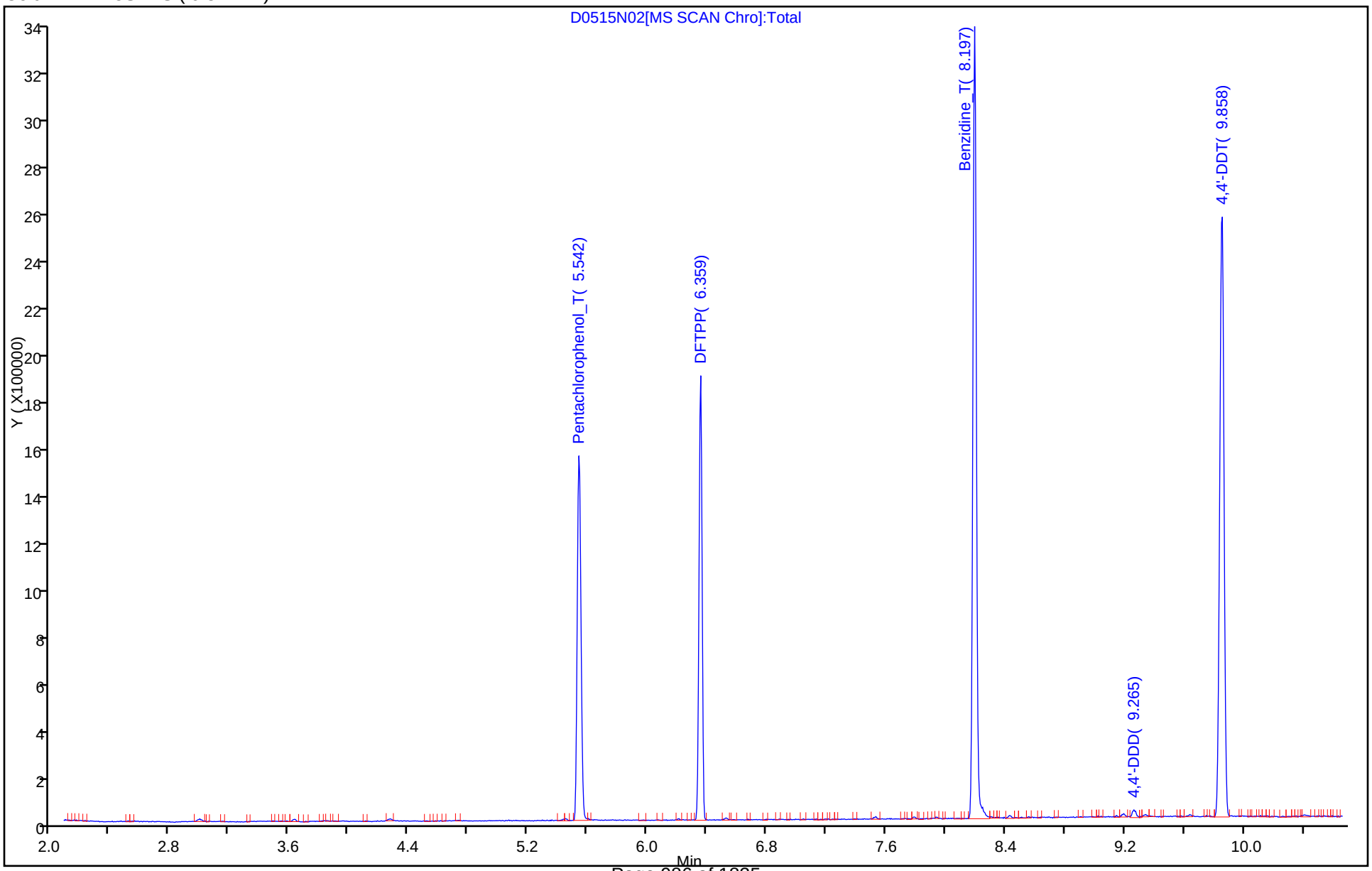
m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	172	158.00	879	224.00	28840	346.00	820
91.00	1666	159.00	848	225.00	6806	352.00	1145
92.00	1569	160.00	1683	226.00	821	353.00	824
93.00	10319	161.00	2411	227.00	12137	354.00	1124
94.00	950	162.00	748	228.00	1719	355.00	167
96.00	290	165.00	1728	229.00	2320	365.00	5188
98.00	7447	166.00	1518	231.00	1060	366.00	257
99.00	6283	167.00	9876	234.00	598	371.00	175
100.00	658	168.00	5448	235.00	888	372.00	1963
101.00	3507	169.00	941	236.00	395	373.00	395
102.00	171	171.00	416	237.00	958	383.00	386
103.00	1554	172.00	803	239.00	215	402.00	709
104.00	2189	173.00	1229	240.00	213	403.00	1108
105.00	2221	174.00	2027	241.00	366	421.00	754
106.00	824	175.00	4736	242.00	1756	422.00	601
107.00	29528	176.00	1402	243.00	1718	423.00	5055
108.00	4732	177.00	1670	244.00	21936	424.00	1283
109.00	251	178.00	793	245.00	2975	441.00	17256
110.00	53928	179.00	7163	246.00	4405	442.00	109472
111.00	8837	180.00	5352	247.00	532	443.00	20672
112.00	1013	181.00	2765	249.00	794	444.00	2172
116.00	1748	183.00	215	253.00	739		

Report Date: 18-May-2015 02:48:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N02.D				
Injection Date:	15-May-2015 13:02:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

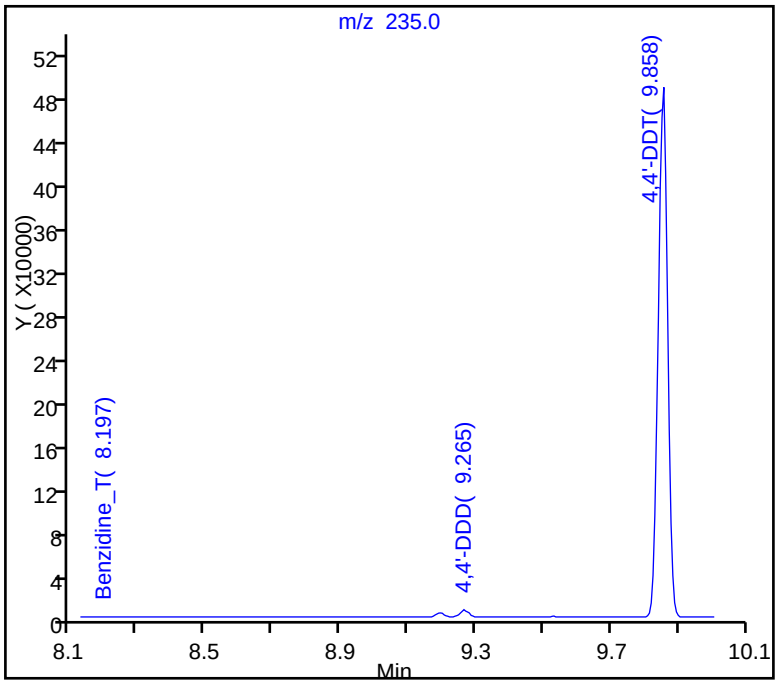


Breakdown Report

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N02.D
Injection Date: 15-May-2015 13:02:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

194 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

194 4,4'-DDT, Area = 953631
192 4,4'-DDE, Area = 0
193 4,4'-DDD, Area = 11231

%Breakdown: 1.16%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

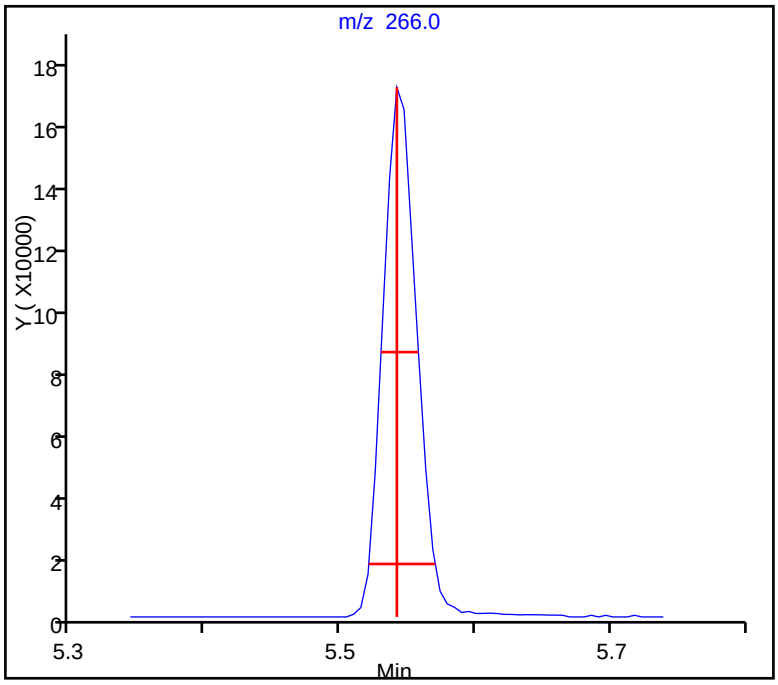
Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N02.D
Injection Date: 15-May-2015 13:02:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

189 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.029 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

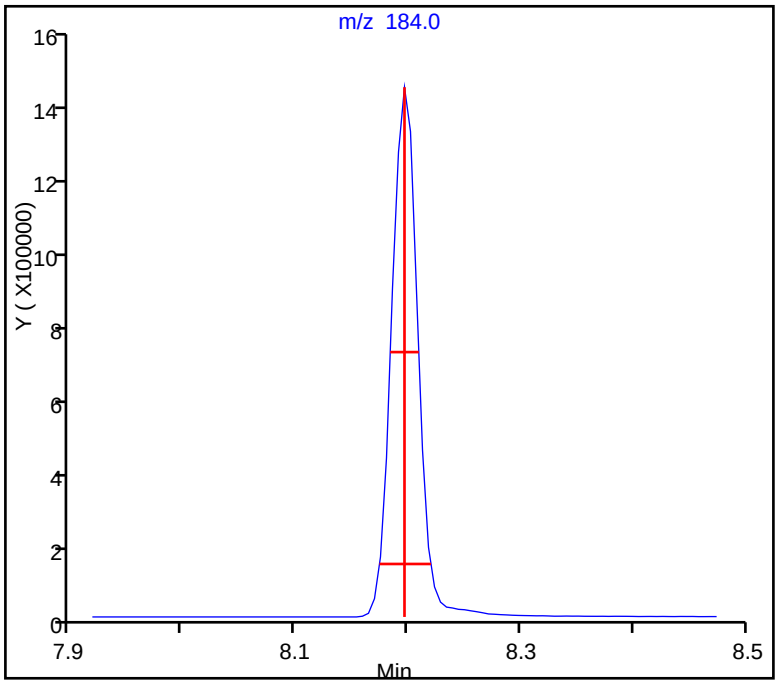
Data File: \\PITCHROM\ChromData\CH732\20150515-6938.b\D0515N02.D
Injection Date: 15-May-2015 13:02:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

191 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.024 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-140746/1-A

Matrix: Water | Lab File ID: D0512005.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/06/2015 12:13

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2015 09:06

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141231 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.20	0.029
208-96-8	Acenaphthylene	ND		0.20	0.022
120-12-7	Anthracene	ND		0.20	0.019
92-87-5	Benzidine	ND		20	4.7
56-55-3	Benzo[a]anthracene	ND		0.20	0.037
205-99-2	Benzo[b]fluoranthene	ND		0.20	0.049
207-08-9	Benzo[k]fluoranthene	ND		0.20	0.030
65-85-0	Benzoic acid	ND		5.0	1.6
191-24-2	Benzo[g,h,i]perylene	ND		0.20	0.029
50-32-8	Benzo[a]pyrene	ND		0.20	0.028
111-91-1	Bis(2-chloroethoxy)methane	ND		1.0	0.13
111-44-4	Bis(2-chloroethyl)ether	ND		1.0	0.032
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2.0	0.44
108-60-1	2,2'-oxybis[1-chloropropane]	ND		1.0	0.024
101-55-3	4-Bromophenyl phenyl ether	ND		1.0	0.12
7005-72-3	4-Chlorophenyl phenyl ether	ND		1.0	0.080
91-58-7	2-Chloronaphthalene	ND		0.20	0.031
85-68-7	Butyl benzyl phthalate	ND		1.0	0.21
218-01-9	Chrysene	ND		0.20	0.031
53-70-3	Dibenz(a,h)anthracene	ND		0.20	0.027
84-74-2	Di-n-butyl phthalate	ND		1.0	0.24
117-84-0	Di-n-octyl phthalate	ND		1.0	0.20
84-66-2	Diethyl phthalate	ND		1.0	0.30
131-11-3	Dimethyl phthalate	ND		1.0	0.18
91-94-1	3,3'-Dichlorobenzidine	ND		1.0	0.15
121-14-2	2,4-Dinitrotoluene	ND		1.0	0.21
606-20-2	2,6-Dinitrotoluene	ND		1.0	0.14
95-57-8	2-Chlorophenol	ND		1.0	0.23
120-83-2	2,4-Dichlorophenol	ND		1.0	0.067
105-67-9	2,4-Dimethylphenol	ND		1.0	0.17
51-28-5	2,4-Dinitrophenol	ND		5.0	2.5
88-75-5	2-Nitrophenol	ND		1.0	0.11
88-06-2	2,4,6-Trichlorophenol	ND		1.0	0.30
122-66-7	1,2-Diphenylhydrazine(as Azobenzene)	ND		1.0	0.12

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-140746/1-A

Matrix: Water | Lab File ID: D0512005.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/06/2015 12:13

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2015 09:06

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141231 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.085
59-50-7	4-Chloro-3-methylphenol	ND		1.0	0.17
100-02-7	4-Nitrophenol	ND		5.0	0.80
534-52-1	4,6-Dinitro-2-methylphenol	ND		5.0	1.6
206-44-0	Fluoranthene	ND		0.20	0.021
86-73-7	Fluorene	ND		0.20	0.024
118-74-1	Hexachlorobenzene	ND		1.0	0.061
87-68-3	Hexachlorobutadiene	ND		1.0	0.094
77-47-4	Hexachlorocyclopentadiene	ND		1.0	0.14
67-72-1	Hexachloroethane	ND		1.0	0.14
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.20	0.043
78-59-1	Isophorone	ND		1.0	0.074
91-20-3	Naphthalene	ND		0.20	0.023
98-95-3	Nitrobenzene	ND		2.0	0.15
621-64-7	N-Nitrosodi-n-propylamine	ND		1.0	0.050
62-75-9	N-Nitrosodimethylamine	ND		1.0	0.12
86-30-6	N-Nitrosodiphenylamine	ND		1.0	0.12
85-01-8	Phenanthrene	ND		0.20	0.042
129-00-0	Pyrene	ND		0.20	0.023
87-86-5	Pentachlorophenol	ND		1.0	0.50
108-95-2	Phenol	ND		1.0	0.055

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	54		30-118
321-60-8	2-Fluorobiphenyl	51		28-109
367-12-4	2-Fluorophenol (Surr)	57		20-105
4165-60-0	Nitrobenzene-d5 (Surr)	57		27-114
4165-62-2	Phenol-d5 (Surr)	61		25-105
1718-51-0	Terphenyl-d14 (Surr)	65		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512005.D
Lims ID: MB 180-140746/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-May-2015 09:06:30 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006874-005
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150512-6874.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 13-May-2015 05:25:53 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: piccolinov Date: 12-May-2015 09:48:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.212	6.217	-0.005	97	132947	8.00	8.00	
* 2 Naphthalene-d8	136	7.494	7.499	-0.005	100	681496	8.00	8.00	
* 3 Acenaphthene-d10	164	9.198	9.204	-0.006	92	517040	8.00	8.00	
* 4 Phenanthrene-d10	188	10.646	10.651	-0.005	97	943789	8.00	8.00	
* 5 Chrysene-d12	240	14.407	14.412	-0.005	96	723330	8.00	8.00	
* 6 Perylene-d12	264	17.297	17.297	0.000	95	530305	8.00	8.00	
$ 7 2-Fluorophenol	112	4.759	4.764	-0.005	91	396165	40.0	23.0	
$ 8 Phenol-d5	99	5.827	5.833	-0.006	95	568862	40.0	24.5	
$ 9 Nitrobenzene-d5	82	6.773	6.778	-0.005	93	653586	40.0	22.9	
$ 10 2-Fluorobiphenyl	172	8.536	8.536	0.000	99	1736187	40.0	20.4	
$ 11 2,4,6-Tribromophenol	330	9.957	9.957	0.000	91	224436	40.0	21.6	
$ 12 Terphenyl-d14	244	12.575	12.575	0.000	99	2055292	40.0	26.1	
13 1,4-Dioxane	88		1.623					ND	
14 N-Nitrosodimethylamine	74		2.216					ND	
15 Pyridine	79		2.301					ND	
17 Dibromoacetonitrile	120		3.590					ND	
18 2-Picoline	93		4.030					ND	
19 N-Nitrosomethylethylamine	88		4.233					ND	
21 Methyl methanesulfonate	80		4.513					ND	
20 Acrylamide	71	4.754	4.597	0.158	26	1418			NC
22 Phenylmercaptan	110	4.754	5.000	-0.246	44	1624			NC
23 N-Nitrosodiethylamine	102		5.115					ND	
24 Ethyl methanesulfonate	79		5.256					ND	
25 Benzaldehyde	77		5.747					ND	
28 Pentachloroethane	167		5.806					ND	
26 Phenol	94		5.849					ND	
27 Aniline	93		5.865					ND	
29 Bis(2-chloroethyl)ether	93		5.934					ND	
30 2-Chlorophenol	128		5.998					ND	
31 n-Decane	43		6.062					ND	
32 1,3-Dichlorobenzene	146		6.159					ND	
33 1,4-Dichlorobenzene	146		6.233					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Benzyl alcohol	108		6.351					ND	
35 1,2-Dichlorobenzene	146		6.394					ND	
36 2-Methylphenol	108		6.468					ND	
37 Indene	116		6.484					ND	
38 2,2'-oxybis[1-chloropropan	45		6.495					ND	
39 N-Nitrosopyrrolidine	100		6.591					ND	
40 Acetophenone	105		6.623					ND	
41 N-Nitrosodi-n-propylamine	70		6.623					ND	
42 4-Methylphenol	108		6.623					ND	
43 N-Nitrosomorpholine	116	6.212	6.632	-0.420	41	5810			NC
44 2-Toluidine	106		6.664					ND	
45 Hexachloroethane	117		6.741					ND	
46 Nitrobenzene	77		6.794					ND	
47 N-Nitrosopiperidine	114		6.926					ND	
48 Isophorone	82		7.029					ND	
49 2-Nitrophenol	139		7.115					ND	
50 2,4-Dimethylphenol	107		7.147					ND	
51 o,o',o''-Triethylphosphoro	198		7.182					ND	
52 Benzoic acid	122		7.200					ND	
53 Bis(2-chloroethoxy)methane	93		7.238					ND	
54 2,4-Dichlorophenol	162		7.350					ND	
55 alpha,alpha-Dimethyl phene	58		7.353					ND	
56 1,2,4-Trichlorobenzene	180		7.441					ND	
58 Naphthalene	128		7.521					ND	
61 Hexachloropropene	213		7.526					ND	
59 4-Chloroaniline	127		7.558					ND	
60 2,6-Dichlorophenol	162		7.574					ND	
62 Hexachlorobutadiene	225		7.644					ND	
63 Quinoline	129		7.786					ND	
65 N-Nitrosodi-n-butylamine	84		7.818					ND	
66 p-Phenylene diamine	108	7.494	7.834	-0.340	49	73439			NC
64 Caprolactam	113		7.868					ND	
67 4-Chloro-3-methylphenol	107		8.018					ND	
68 Safrole, Total	162		8.026					ND	
69 2-Methylnaphthalene	142		8.194					ND	
71 1-Methylnaphthalene	142		8.290					ND	
72 Hexachlorocyclopentadiene	237		8.354					ND	
73 1,2,4,5-Tetrachlorobenzene	216		8.360					ND	
74 2,4,6-Trichlorophenol	196		8.461					ND	
75 2,4,5-Trichlorophenol	196		8.493					ND	
180 Isosafrole	162		8.514					ND	
78 1-Chloronaphthalene	162		8.616					ND	
76 1,1'-Biphenyl	154		8.637					ND	
77 2-Chloronaphthalene	162		8.669					ND	
79 2-Nitroaniline	65		8.744					ND	
80 1,4-Naphthoquinone	158	8.531	8.750	-0.219	44	2798			NC
81 1,4-Dinitrobenzene	168	8.536	8.769	-0.233	31	21876			NC
82 Dimethyl phthalate	163		8.904					ND	
83 1,3-Dinitrobenzene	168		8.942					ND	
84 2,6-Dinitrotoluene	165		8.969					ND	
85 Acenaphthylene	152		9.070					ND	
86 3-Nitroaniline	138		9.134					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
88 Acenaphthene	153		9.236					ND	
87 2,4-Dinitrophenol	184		9.236					ND	
89 4-Nitrophenol	109		9.268					ND	
92 Pentachlorobenzene	250		9.294					ND	
94 1-Naphthylamine	143		9.340					ND	
91 2,4-Dinitrotoluene	165		9.359					ND	
93 Dibenzofuran	168		9.396					ND	
95 2,3,5,6-Tetrachlorophenol	232		9.471					ND	
96 2,3,4,6-Tetrachlorophenol	232		9.508					ND	
97 2-Naphthylamine	143		9.540					ND	
98 Diethyl phthalate	149	9.567	9.572	-0.005	99	22936		0.2735	
99 Hexadecane	57		9.578					ND	
102 N-Nitro-o-toluidine	152	9.952	9.586	0.366	40	4534		NC	
100 4-Chlorophenyl phenyl ethe	204		9.706					ND	
101 4-Nitroaniline	138		9.722					ND	
103 Fluorene	166		9.727					ND	
104 4,6-Dinitro-2-methylphenol	198		9.749					ND	
105 N-Nitrosodiphenylamine	169		9.813					ND	
90 1,2-Diphenylhydrazine	77		9.861					ND	
107 1,3,5-Trinitrobenzene	213		9.896					ND	
108 Phenacetin	108		9.939					ND	
109 Phorate	121		9.944					ND	
111 Dimethoate	87		10.099					ND	
110 4-Bromophenyl phenyl ether	248		10.176					ND	
114 4-Aminobiphenyl	169	9.952	10.265	-0.312	55	10972		NC	
112 Hexachlorobenzene	284		10.267					ND	
117 Pronamide	173	9.952	10.297	-0.345	56	5942		NC	
113 Atrazine	200		10.299					ND	
118 Pentachloronitrobenzene	237		10.302					ND	
119 Disulfoton	88		10.419					ND	
116 Pentachlorophenol	266		10.443					ND	
115 n-Octadecane	57		10.448					ND	
120 Dinoseb	211		10.545					ND	
123 Hexachlorophene TIC	198		10.600					ND	
121 Phenanthrene	178		10.673					ND	
122 Anthracene	178		10.726					ND	
125 Methyl parathion	109		10.793					ND	
124 Carbazole	167		10.881					ND	
127 Ethyl Parathion	109		11.189					ND	
126 Di-n-butyl phthalate	149		11.202					ND	
128 4-Nitroquinoline-1-oxide	190		11.263					ND	
129 Methapyrilene	58		11.317					ND	
70 Diphenamid	167		11.474					ND	
106 Diphenylamine	167		11.620					ND	
130 Isodrin	193		11.821					ND	
57 Azobenzene	77		11.891					ND	
131 Fluoranthene	202		12.078					ND	
134 1,2,3,4 -Tetrachlorobenzen	216	12.569	12.215	0.354	49	3649		NC	
132 Benzidine	184		12.217					ND	
133 Pyrene	202		12.404					ND	
135 p-Dimethylamino azobenzene	225	12.580	12.428	0.152	43	11875		NC	
136 Chlorobenzilate	139		12.783					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
137 Famphur	218		12.850					ND	
139 3,3'-Dimethylbenzidine	212	12.575	12.936	-0.361	56	139950			NC
140 Kepone	272		13.030					ND	
138 Butyl benzyl phthalate	149		13.317					ND	
141 2-Acetylaminofluorene	181		13.363					ND	
142 Thionazin	97		13.789					ND	
143 4,4'-Methylene bis(2-chlor	231		13.881					ND	
144 3,3'-Dichlorobenzidine	252		14.316					ND	
145 Bis(2-ethylhexyl) phthalat	149		14.359					ND	
146 Benzo[a]anthracene	228		14.391					ND	
147 Chrysene	228		14.455					ND	
148 Sulfotepp	97		14.530					ND	
149 6-Methylchrysene	242	14.407	14.907	-0.500	48	12762			NC
150 Di-n-octyl phthalate	149		15.657					ND	
151 7,12-Dimethylbenz(a)anthra	256		16.506					ND	
152 Benzo[b]fluoranthene	252		16.523					ND	
153 Benzo[k]fluoranthene	252		16.576					ND	
219 Benzo[e]pyrene	252		17.083					ND	
154 Benzo[a]pyrene	252		17.185					ND	
155 3-Methylcholanthrene	268		17.524					ND	
156 Dibenz[a,h]acridine	279		18.636					ND	
220 Dibenz[a,j]acridine	279		19.247					ND	
157 Indeno[1,2,3-cd]pyrene	276		19.669					ND	
158 Dibenz(a,h)anthracene	278		19.706					ND	
159 Benzo[g,h,i]perylene	276		20.358					ND	
162 3-Chlorobenzoic Acid	139		0.000					ND	
179 2,5-Dichlorophenol	162		0.000					ND	
184 Diallate Peak 1	86		0.000					ND	
172 Carbaryl	144		0.000					ND	
164 Aramite Peak 2	185		0.000					ND	
188 2-Bromonaphthalene	127		0.000					ND	
185 4-Nitrobiphenyl	199		0.000					ND	
217 1-Phenyl-1-(4-methylphenyl	1		0.000					ND	
166 4-Chloro-3-nitro-alpha,alp	179		0.000					ND	
160 n,n'-Dimethylaniline	120		0.000					ND	
216 1-Phenyl-1-(2,4-dimethylph	1		0.000					ND	
214 1-Phenyl-1-(4-methylphenyl	1		0.000					ND	
183 2,3-Dichlorophenol	162		0.000					ND	
218 Benzotrichloride TIC	1		0.000					ND	
213 3-Methylphenol	1		0.000					ND	
168 Aramite Peak 1	185		0.000					ND	
187 1,2-Dibromo-3-Chloropropan	157		0.000					ND	
174 2-Chlorobenzoic Acid	139		0.000					ND	
215 1-Phenyl-1-(2,4-dimethylph	1		0.000					ND	
161 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
165 Benzotrichloride	159		0.000					ND	
182 4-Chlorophenol	128		0.000					ND	
177 1,2,3,4-Tetrahydronaphthal	104		0.000					ND	
167 Phthalic anhydride	104		0.000					ND	
176 Dimethylformamide	73		0.000					ND	
178 Trifluralin	306		0.000					ND	
170 4-tert-Octylphenol	135		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
212 2,3,7,8-TCDD TIC	1		0.000					ND	
169 Octachlorostyrene	308		0.000					ND	
173 Octachlorocyclopentene	307		0.000					ND	
181 4-Chlorobenzoic Acid	139		0.000					ND	
171 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
175 1,2,3-Trimethylbenzene	105		0.000					ND	
163 Diallate Peak 2	86		0.000					ND	
186 o-Phenylphenol	1		0.000					ND	
189 Pentachlorophenol_T	266		5.595					ND	
191 Benzidine_T	184		8.250					ND	
192 4,4'-DDE	246		8.790					ND	
193 4,4'-DDD	235		9.334					ND	
194 4,4'-DDT	235		9.933					ND	
S 195 Aramite, Total	185		1.000					ND	
S 198 Diallate	86		0.000					ND	
S 199 Total Cresols	108		0.000					ND	
S 196 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
S 197 Methyl Phenols,Total	108		0.000					ND	
T 221 Phenyl ether TIC	170	10.646	11.500	-0.854	0	4907		0.0759	
T 200 Quinoline TIC	129		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SVTAPITINTRNi_00007 Amount Added: 1.00 Units: uL Run Reagent

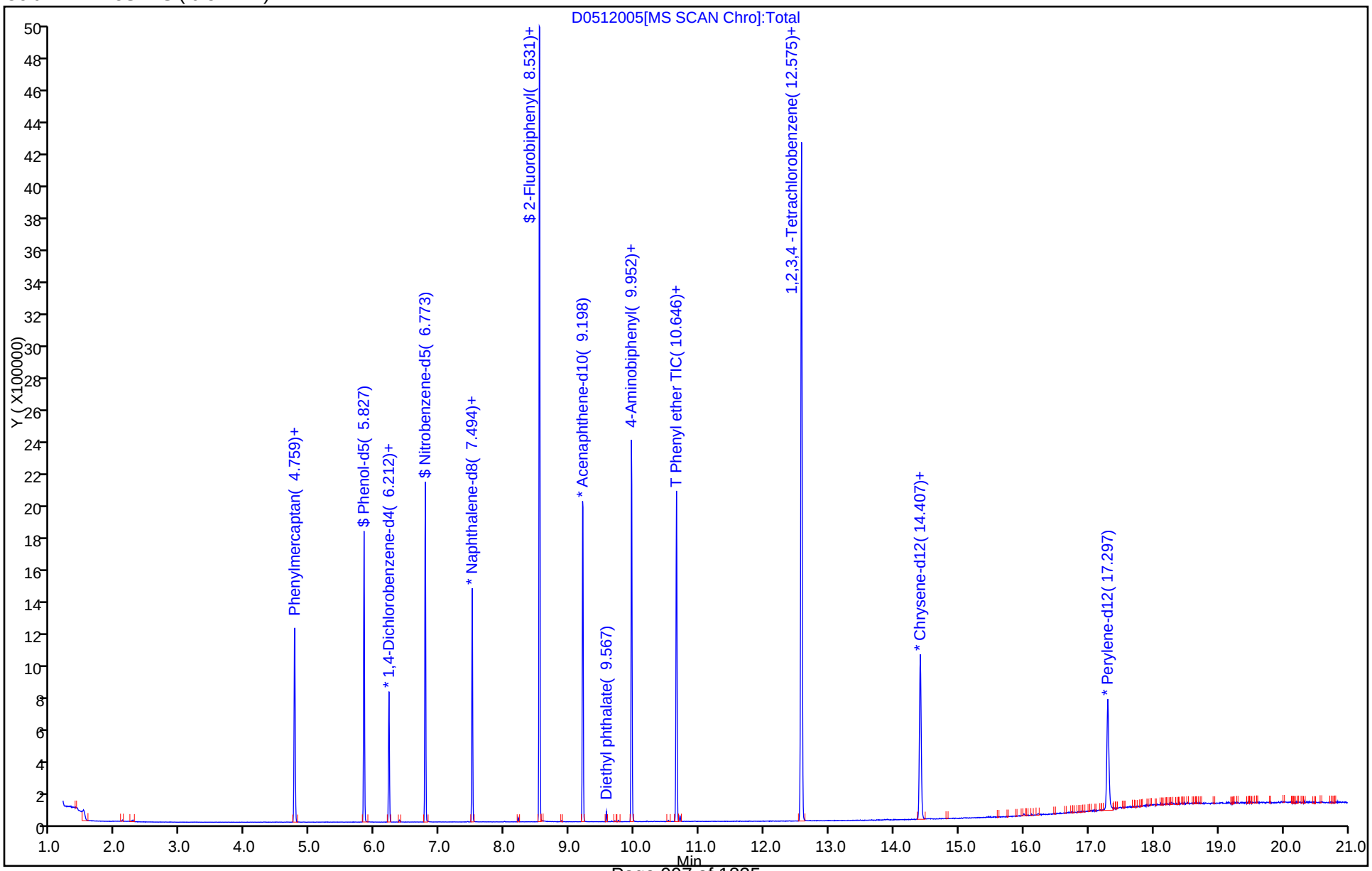
Report Date: 13-May-2015 05:25:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512005.D

Injection Date:	12-May-2015 09:06:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	MB 180-140746/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-140846/1-A

Matrix: Water | Lab File ID: D0514N07.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/07/2015 09:32

Sample wt/vol: 250(mL) | Date Analyzed: 05/14/2015 14:23

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141553 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.20	0.029
208-96-8	Acenaphthylene	ND		0.20	0.022
120-12-7	Anthracene	ND		0.20	0.019
92-87-5	Benzidine	ND		20	4.7
56-55-3	Benzo[a]anthracene	ND		0.20	0.037
205-99-2	Benzo[b]fluoranthene	ND		0.20	0.049
207-08-9	Benzo[k]fluoranthene	ND		0.20	0.030
65-85-0	Benzoic acid	ND		5.0	1.6
191-24-2	Benzo[g,h,i]perylene	ND		0.20	0.029
50-32-8	Benzo[a]pyrene	ND		0.20	0.028
111-91-1	Bis(2-chloroethoxy)methane	ND		1.0	0.13
111-44-4	Bis(2-chloroethyl)ether	ND		1.0	0.032
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2.0	0.44
108-60-1	2,2'-oxybis[1-chloropropane]	ND		1.0	0.024
101-55-3	4-Bromophenyl phenyl ether	ND		1.0	0.12
7005-72-3	4-Chlorophenyl phenyl ether	ND		1.0	0.080
91-58-7	2-Chloronaphthalene	ND		0.20	0.031
85-68-7	Butyl benzyl phthalate	ND		1.0	0.21
218-01-9	Chrysene	ND		0.20	0.031
53-70-3	Dibenz(a,h)anthracene	ND		0.20	0.027
84-74-2	Di-n-butyl phthalate	ND		1.0	0.24
117-84-0	Di-n-octyl phthalate	ND		1.0	0.20
84-66-2	Diethyl phthalate	ND		1.0	0.30
131-11-3	Dimethyl phthalate	ND		1.0	0.18
91-94-1	3,3'-Dichlorobenzidine	ND		1.0	0.15
121-14-2	2,4-Dinitrotoluene	ND		1.0	0.21
606-20-2	2,6-Dinitrotoluene	ND		1.0	0.14
95-57-8	2-Chlorophenol	ND		1.0	0.23
120-83-2	2,4-Dichlorophenol	ND		1.0	0.067
105-67-9	2,4-Dimethylphenol	ND		1.0	0.17
51-28-5	2,4-Dinitrophenol	ND		5.0	2.5
88-75-5	2-Nitrophenol	ND		1.0	0.11
88-06-2	2,4,6-Trichlorophenol	ND		1.0	0.30
122-66-7	1,2-Diphenylhydrazine(as Azobenzene)	ND		1.0	0.12

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-140846/1-A

Matrix: Water | Lab File ID: D0514N07.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/07/2015 09:32

Sample wt/vol: 250(mL) | Date Analyzed: 05/14/2015 14:23

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141553 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.085
59-50-7	4-Chloro-3-methylphenol	ND		1.0	0.17
100-02-7	4-Nitrophenol	ND		5.0	0.80
534-52-1	4,6-Dinitro-2-methylphenol	ND		5.0	1.6
206-44-0	Fluoranthene	ND		0.20	0.021
86-73-7	Fluorene	ND		0.20	0.024
118-74-1	Hexachlorobenzene	ND		1.0	0.061
87-68-3	Hexachlorobutadiene	ND		1.0	0.094
77-47-4	Hexachlorocyclopentadiene	ND		1.0	0.14
67-72-1	Hexachloroethane	ND		1.0	0.14
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.20	0.043
78-59-1	Isophorone	ND		1.0	0.074
91-20-3	Naphthalene	ND		0.20	0.023
98-95-3	Nitrobenzene	ND		2.0	0.15
621-64-7	N-Nitrosodi-n-propylamine	ND		1.0	0.050
62-75-9	N-Nitrosodimethylamine	ND		1.0	0.12
86-30-6	N-Nitrosodiphenylamine	ND		1.0	0.12
85-01-8	Phenanthrene	ND		0.20	0.042
129-00-0	Pyrene	ND		0.20	0.023
87-86-5	Pentachlorophenol	ND		1.0	0.50
108-95-2	Phenol	ND		1.0	0.055

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	53		30-118
321-60-8	2-Fluorobiphenyl	52		28-109
367-12-4	2-Fluorophenol (Surr)	60		20-105
4165-60-0	Nitrobenzene-d5 (Surr)	56		27-114
4165-62-2	Phenol-d5 (Surr)	64		25-105
1718-51-0	Terphenyl-d14 (Surr)	56		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N07.D
Lims ID: MB 180-140846/1-A
Client ID:
Sample Type: MB
Inject. Date: 14-May-2015 14:23:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006915-007
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150514-6915.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 15-May-2015 03:56:52 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: piccolinov Date: 15-May-2015 03:46:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.201	6.196	0.005	97	107229	8.00	8.00	
* 2 Naphthalene-d8	136	7.489	7.484	0.005	100	551241	8.00	8.00	
* 3 Acenaphthene-d10	164	9.193	9.193	0.000	92	410405	8.00	8.00	
* 4 Phenanthrene-d10	188	10.641	10.641	0.000	97	787725	8.00	8.00	
* 5 Chrysene-d12	240	14.412	14.407	0.005	97	741651	8.00	8.00	
* 6 Perylene-d12	264	17.308	17.308	0.000	95	611873	8.00	8.00	
$ 7 2-Fluorophenol	112	4.759	4.759	0.000	92	335836	40.0	24.2	
$ 8 Phenol-d5	99	5.822	5.822	0.000	95	482100	40.0	25.8	
$ 9 Nitrobenzene-d5	82	6.762	6.757	0.005	93	518360	40.0	22.4	
$ 10 2-Fluorobiphenyl	172	8.525	8.520	0.005	99	1389310	40.0	20.6	
$ 11 2,4,6-Tribromophenol	330	9.952	9.952	0.000	86	181977	40.0	21.0	
$ 12 Terphenyl-d14	244	12.575	12.569	0.006	99	1811671	40.0	22.4	
13 1,4-Dioxane	88		1.586					ND	
14 N-Nitrosodimethylamine	74		2.184					ND	
15 Pyridine	79		2.270					ND	
17 Dibromoacetonitrile	120		3.590					ND	
18 2-Picoline	93		4.030					ND	
19 N-Nitrosomethylethylamine	88		4.233					ND	
21 Methyl methanesulfonate	80		4.497					ND	
20 Acrylamide	71	4.759	4.597	0.163	32	1186			NC
22 Phenylmercaptan	110	4.759	5.000	-0.241	44	1420			NC
23 N-Nitrosodiethylamine	102		5.115					ND	
24 Ethyl methanesulfonate	79		5.256					ND	
25 Benzaldehyde	77		5.726					ND	
28 Pentachloroethane	167		5.806					ND	
26 Phenol	94		5.838					ND	
27 Aniline	93		5.849					ND	
29 Bis(2-chloroethyl)ether	93		5.918					ND	
30 2-Chlorophenol	128		5.982					ND	
31 n-Decane	43		6.041					ND	
32 1,3-Dichlorobenzene	146		6.137					ND	
33 1,4-Dichlorobenzene	146		6.218					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Benzyl alcohol	108		6.335					ND	
35 1,2-Dichlorobenzene	146		6.372					ND	
36 2-Methylphenol	108		6.453					ND	
37 Indene	116		6.463					ND	
38 2,2'-oxybis[1-chloropropan	45		6.479					ND	
39 N-Nitrosopyrrolidine	100		6.570					ND	
40 Acetophenone	105		6.602					ND	
41 N-Nitrosodi-n-propylamine	70		6.602					ND	
42 4-Methylphenol	108		6.608					ND	
43 N-Nitrosomorpholine	116		6.632					ND	
44 2-Toluidine	106		6.664					ND	
45 Hexachloroethane	117		6.725					ND	
46 Nitrobenzene	77		6.773					ND	
47 N-Nitrosopiperidine	114		6.926					ND	
48 Isophorone	82		7.014					ND	
49 2-Nitrophenol	139		7.099					ND	
50 2,4-Dimethylphenol	107		7.131					ND	
51 o,o',o''-Triethylphosphoro	198		7.182					ND	
52 Benzoic acid	122		7.190					ND	
53 Bis(2-chloroethoxy)methane	93		7.222					ND	
54 2,4-Dichlorophenol	162		7.334					ND	
55 alpha,alpha-Dimethyl phene	58		7.353					ND	
56 1,2,4-Trichlorobenzene	180		7.425					ND	
58 Naphthalene	128		7.505					ND	
61 Hexachloropropene	213		7.526					ND	
59 4-Chloroaniline	127		7.542					ND	
60 2,6-Dichlorophenol	162		7.558					ND	
62 Hexachlorobutadiene	225		7.628					ND	
63 Quinoline	129		7.786					ND	
65 N-Nitrosodi-n-butylamine	84		7.818					ND	
66 p-Phenylene diamine	108	7.489	7.834	-0.345	48	58455			NC
64 Caprolactam	113		7.847					ND	
67 4-Chloro-3-methylphenol	107		8.002					ND	
68 Safrole, Total	162		8.026					ND	
69 2-Methylnaphthalene	142		8.178					ND	
71 1-Methylnaphthalene	142		8.274					ND	
72 Hexachlorocyclopentadiene	237		8.338					ND	
73 1,2,4,5-Tetrachlorobenzene	216		8.344					ND	
74 2,4,6-Trichlorophenol	196		8.445					ND	
75 2,4,5-Trichlorophenol	196		8.477					ND	
180 Isosafrole	162		8.514					ND	
78 1-Chloronaphthalene	162		8.616					ND	
76 1,1'-Biphenyl	154		8.622					ND	
77 2-Chloronaphthalene	162		8.654					ND	
79 2-Nitroaniline	65		8.734					ND	
80 1,4-Naphthoquinone	158	8.525	8.750	-0.225	44	2312			NC
81 1,4-Dinitrobenzene	168	8.525	8.769	-0.244	31	18367			NC
82 Dimethyl phthalate	163		8.889					ND	
83 1,3-Dinitrobenzene	168		8.926					ND	
84 2,6-Dinitrotoluene	165		8.953					ND	
85 Acenaphthylene	152		9.054					ND	
86 3-Nitroaniline	138		9.124					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
87 2,4-Dinitrophenol	184		9.220					ND	
88 Acenaphthene	153		9.225					ND	
89 4-Nitrophenol	109		9.263					ND	
92 Pentachlorobenzene	250		9.294					ND	
94 1-Naphthylamine	143		9.340					ND	
91 2,4-Dinitrotoluene	165		9.343					ND	
93 Dibenzofuran	168		9.385					ND	
95 2,3,5,6-Tetrachlorophenol	232		9.460					ND	
96 2,3,4,6-Tetrachlorophenol	232		9.498					ND	
97 2-Naphthylamine	143		9.530					ND	
98 Diethyl phthalate	149		9.562					ND	
99 Hexadecane	57		9.567					ND	
102 N-Nitro-o-toluidine	152	9.952	9.586	0.366	40	3563			NC
100 4-Chlorophenyl phenyl ethe	204		9.695					ND	
101 4-Nitroaniline	138		9.711					ND	
103 Fluorene	166		9.717					ND	
104 4,6-Dinitro-2-methylphenol	198		9.738					ND	
105 N-Nitrosodiphenylamine	169		9.808					ND	
90 1,2-Diphenylhydrazine	77		9.850					ND	
107 1,3,5-Trinitrobenzene	213		9.896					ND	
108 Phenacetin	108		9.939					ND	
109 Phorate	121		9.944					ND	
111 Dimethoate	87		10.099					ND	
110 4-Bromophenyl phenyl ether	248		10.171					ND	
112 Hexachlorobenzene	284		10.262					ND	
114 4-Aminobiphenyl	169	9.952	10.265	-0.312	55	8926			NC
113 Atrazine	200		10.288					ND	
117 Pronamide	173	9.952	10.297	-0.345	56	4693			NC
118 Pentachloronitrobenzene	237		10.302					ND	
119 Disulfoton	88		10.419					ND	
116 Pentachlorophenol	266		10.438					ND	
115 n-Octadecane	57		10.443					ND	
120 Dinoseb	211		10.545					ND	
123 Hexachlorophene TIC	198		10.600					ND	
121 Phenanthrene	178		10.668					ND	
122 Anthracene	178		10.716					ND	
125 Methyl parathion	109		10.793					ND	
124 Carbazole	167		10.871					ND	
127 Ethyl Parathion	109		11.189					ND	
126 Di-n-butyl phthalate	149		11.191					ND	
128 4-Nitroquinoline-1-oxide	190		11.263					ND	
129 Methapyrilene	58		11.317					ND	
70 Diphenamid	167		11.474					ND	
106 Diphenylamine	167		11.620					ND	
130 Isodrin	193		11.821					ND	
57 Azobenzene	77		11.880					ND	
131 Fluoranthene	202		12.073					ND	
132 Benzidine	184		12.212					ND	
134 1,2,3,4 -Tetrachlorobenzen	216	12.580	12.215	0.365	49	2559			NC
133 Pyrene	202		12.399					ND	
135 p-Dimethylamino azobenzene	225	12.575	12.428	0.147	52	10263			NC
136 Chlorobenzilate	139		12.783					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
137 Famphur	218		12.850					ND	
139 3,3'-Dimethylbenzidine	212	12.575	12.936	-0.361	79	123341			NC
140 Kepone	272		13.030					ND	
138 Butyl benzyl phthalate	149		13.317					ND	
141 2-Acetylaminofluorene	181		13.363					ND	
142 Thionazin	97		13.789					ND	
143 4,4'-Methylene bis(2-chlor	231		13.881					ND	
144 3,3'-Dichlorobenzidine	252		14.311					ND	
145 Bis(2-ethylhexyl) phthalat	149		14.364					ND	
146 Benzo[a]anthracene	228		14.386					ND	
147 Chrysene	228		14.455					ND	
148 Sulfotepp	97		14.530					ND	
149 6-Methylchrysene	242	14.412	14.907	-0.495	47	12558			NC
150 Di-n-octyl phthalate	149		15.668					ND	
151 7,12-Dimethylbenz(a)anthra	256		16.512					ND	
152 Benzo[b]fluoranthene	252		16.528					ND	
153 Benzo[k]fluoranthene	252		16.581					ND	
219 Benzo[e]pyrene	252		17.089					ND	
154 Benzo[a]pyrene	252		17.191					ND	
155 3-Methylcholanthrene	268		17.524					ND	
156 Dibenz[a,h]acridine	279		18.636					ND	
220 Dibenz[a,j]acridine	279		19.247					ND	
157 Indeno[1,2,3-cd]pyrene	276		19.675					ND	
158 Dibenz(a,h)anthracene	278		19.707					ND	
159 Benzo[g,h,i]perylene	276		20.358					ND	
162 3-Chlorobenzoic Acid	139		0.000					ND	
179 2,5-Dichlorophenol	162		0.000					ND	
184 Diallate Peak 1	86		0.000					ND	
172 Carbaryl	144		0.000					ND	
164 Aramite Peak 2	185		0.000					ND	
188 2-Bromonaphthalene	127		0.000					ND	
185 4-Nitrobiphenyl	199		0.000					ND	
217 1-Phenyl-1-(4-methylphenyl	1		0.000					ND	
166 4-Chloro-3-nitro-alpha,alp	179		0.000					ND	
160 n,n'-Dimethylaniline	120		0.000					ND	
181 4-Chlorobenzoic Acid	139		0.000					ND	
186 o-Phenylphenol	1		0.000					ND	
175 1,2,3-Trimethylbenzene	105		0.000					ND	
163 Diallate Peak 2	86		0.000					ND	
171 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
168 Aramite Peak 1	185		0.000					ND	
187 1,2-Dibromo-3-Chloropropan	157		0.000					ND	
174 2-Chlorobenzoic Acid	139		0.000					ND	
215 1-Phenyl-1-(2,4-dimethylph	1		0.000					ND	
161 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
165 Benzotrichloride	159		0.000					ND	
182 4-Chlorophenol	128		0.000					ND	
177 1,2,3,4-Tetrahydronaphthal	104		0.000					ND	
167 Phthalic anhydride	104		0.000					ND	
176 Dimethylformamide	73		0.000					ND	
178 Trifluralin	306		0.000					ND	
170 4-tert-Octylphenol	135		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
212 2,3,7,8-TCDD TIC	1		0.000					ND	
169 Octachlorostyrene	308		0.000					ND	
173 Octachlorocyclopentene	307		0.000					ND	
213 3-Methylphenol	1		0.000					ND	
218 Benzotrichloride TIC	1		0.000					ND	
183 2,3-Dichlorophenol	162		0.000					ND	
214 1-Phenyl-1-(4-methylphenyl	1		0.000					ND	
216 1-Phenyl-1-(2,4-dimethylph	1		0.000					ND	
189 Pentachlorophenol_T	266		5.536					ND	
191 Benzidine_T	184		8.197					ND	
192 4,4'-DDE	246		8.560					ND	
193 4,4'-DDD	235		9.270					ND	
194 4,4'-DDT	235		9.863					ND	
S 195 Aramite, Total	185		1.000					ND	
S 196 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
S 197 Methyl Phenols,Total	108		0.000					ND	
S 198 Diallate	86		0.000					ND	
S 199 Total Cresols	108		0.000					ND	
T 221 Phenyl ether TIC	170	10.641	11.500	-0.859	0	3738		0.0729	
T 200 Quinoline TIC	129		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SVTAPITINTRNi_00007 Amount Added: 1.00 Units: uL Run Reagent

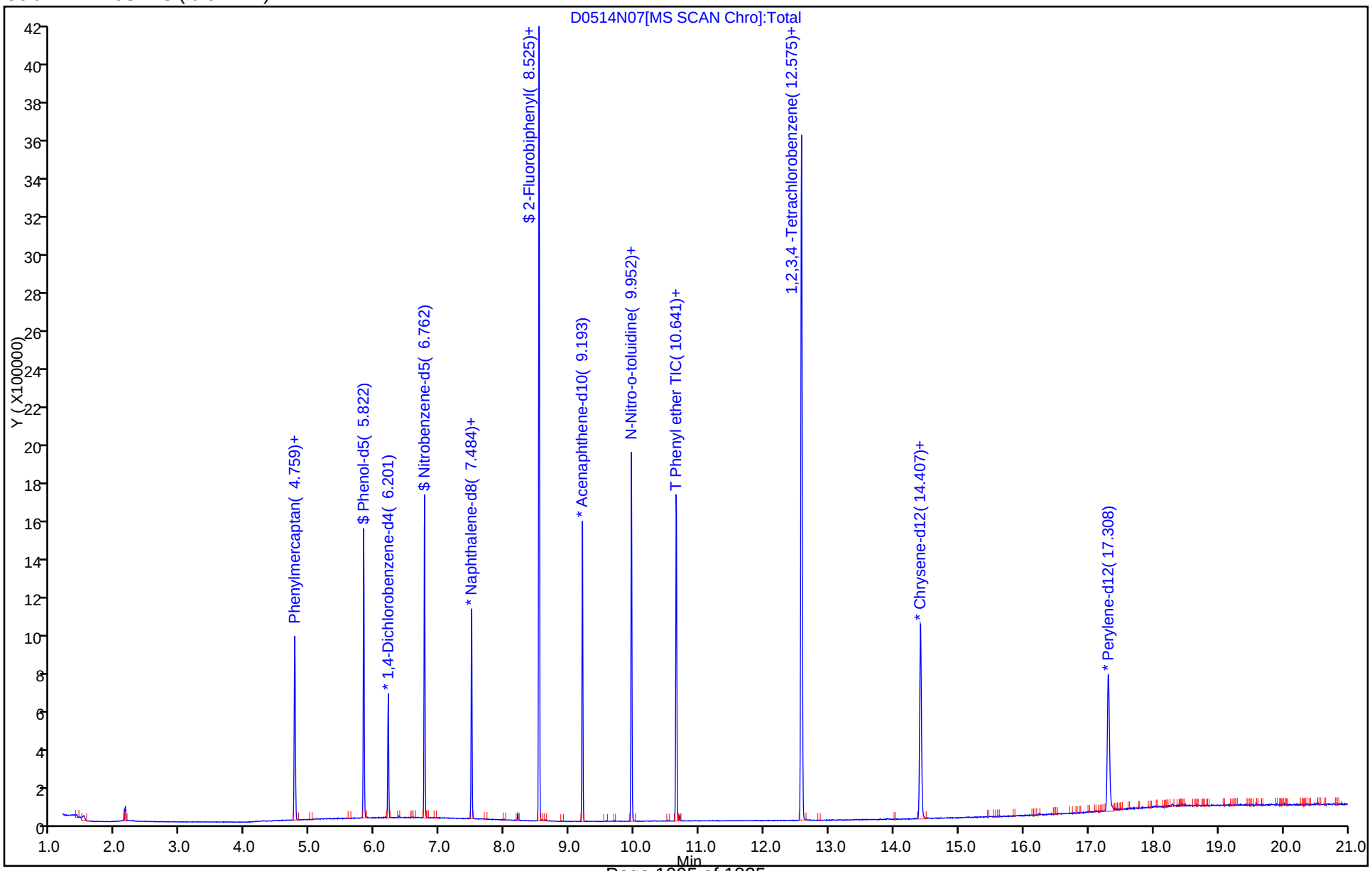
Report Date: 15-May-2015 03:56:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N07.D

Injection Date:	14-May-2015 14:23:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	MB 180-140846/1-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-140746/2-A

Matrix: Water | Lab File ID: D0512008.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/06/2015 12:13

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2015 10:20

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141231 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	11.1		0.20	0.029
208-96-8	Acenaphthylene	12.2		0.20	0.022
120-12-7	Anthracene	12.6		0.20	0.019
92-87-5	Benzidine	7.11	J	20	4.7
56-55-3	Benzo[a]anthracene	13.6		0.20	0.037
205-99-2	Benzo[b]fluoranthene	12.8		0.20	0.049
207-08-9	Benzo[k]fluoranthene	13.6		0.20	0.030
65-85-0	Benzoic acid	12.1		5.0	1.6
191-24-2	Benzo[g,h,i]perylene	14.8		0.20	0.029
50-32-8	Benzo[a]pyrene	13.9		0.20	0.028
111-91-1	Bis(2-chloroethoxy)methane	11.6		1.0	0.13
111-44-4	Bis(2-chloroethyl)ether	11.6		1.0	0.032
117-81-7	Bis(2-ethylhexyl) phthalate	14.1		2.0	0.44
108-60-1	2,2'-oxybis[1-chloropropane]	10.8		1.0	0.024
101-55-3	4-Bromophenyl phenyl ether	12.2		1.0	0.12
7005-72-3	4-Chlorophenyl phenyl ether	12.1		1.0	0.080
91-58-7	2-Chloronaphthalene	10.7		0.20	0.031
85-68-7	Butyl benzyl phthalate	14.0		1.0	0.21
218-01-9	Chrysene	13.4		0.20	0.031
53-70-3	Dibenz(a,h)anthracene	14.6		0.20	0.027
84-74-2	Di-n-butyl phthalate	12.8		1.0	0.24
117-84-0	Di-n-octyl phthalate	14.1		1.0	0.20
84-66-2	Diethyl phthalate	11.4		1.0	0.30
131-11-3	Dimethyl phthalate	12.0		1.0	0.18
91-94-1	3,3'-Dichlorobenzidine	12.4		1.0	0.15
121-14-2	2,4-Dinitrotoluene	13.4		1.0	0.21
606-20-2	2,6-Dinitrotoluene	12.8		1.0	0.14
95-57-8	2-Chlorophenol	12.0		1.0	0.23
120-83-2	2,4-Dichlorophenol	12.1		1.0	0.067
105-67-9	2,4-Dimethylphenol	12.1		1.0	0.17
51-28-5	2,4-Dinitrophenol	20.6		5.0	2.5
88-75-5	2-Nitrophenol	12.1		1.0	0.11
88-06-2	2,4,6-Trichlorophenol	11.7		1.0	0.30
122-66-7	1,2-Diphenylhydrazine(as Azobenzene)	12.1		1.0	0.12

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-140746/2-A

Matrix: Water | Lab File ID: D0512008.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/06/2015 12:13

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2015 10:20

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141231 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	11.4		1.0	0.085
59-50-7	4-Chloro-3-methylphenol	12.9		1.0	0.17
100-02-7	4-Nitrophenol	25.6		5.0	0.80
534-52-1	4,6-Dinitro-2-methylphenol	25.2		5.0	1.6
206-44-0	Fluoranthene	12.7		0.20	0.021
86-73-7	Fluorene	12.4		0.20	0.024
118-74-1	Hexachlorobenzene	11.9		1.0	0.061
87-68-3	Hexachlorobutadiene	11.4		1.0	0.094
77-47-4	Hexachlorocyclopentadiene	11.4		1.0	0.14
67-72-1	Hexachloroethane	12.1		1.0	0.14
193-39-5	Indeno[1,2,3-cd]pyrene	14.4		0.20	0.043
78-59-1	Isophorone	11.9		1.0	0.074
91-20-3	Naphthalene	11.5		0.20	0.023
98-95-3	Nitrobenzene	11.6		2.0	0.15
621-64-7	N-Nitrosodi-n-propylamine	11.6		1.0	0.050
62-75-9	N-Nitrosodimethylamine	10.7		1.0	0.12
86-30-6	N-Nitrosodiphenylamine	22.3		1.0	0.12
85-01-8	Phenanthrene	12.7		0.20	0.042
129-00-0	Pyrene	14.3		0.20	0.023
87-86-5	Pentachlorophenol	20.2		1.0	0.50
108-95-2	Phenol	11.7		1.0	0.055

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	58		30-118
321-60-8	2-Fluorobiphenyl	53		28-109
367-12-4	2-Fluorophenol (Surr)	52		20-105
4165-60-0	Nitrobenzene-d5 (Surr)	55		27-114
4165-62-2	Phenol-d5 (Surr)	57		25-105
1718-51-0	Terphenyl-d14 (Surr)	60		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512008.D
Lims ID: LCS 180-140746/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-May-2015 10:20:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006874-008
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150512-6874.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 13-May-2015 05:25:53 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: piccolinov Date: 12-May-2015 10:53:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.212	6.217	-0.005	96	112402	8.00	8.00	
* 2 Naphthalene-d8	136	7.500	7.499	0.001	100	552968	8.00	8.00	
* 3 Acenaphthene-d10	164	9.204	9.204	0.000	92	389804	8.00	8.00	
* 4 Phenanthrene-d10	188	10.652	10.651	0.001	97	698284	8.00	8.00	
* 5 Chrysene-d12	240	14.418	14.412	0.006	97	584827	8.00	8.00	
* 6 Perylene-d12	264	17.308	17.297	0.011	95	494591	8.00	8.00	
$ 7 2-Fluorophenol	112	4.759	4.764	-0.005	92	303090	40.0	20.8	
$ 8 Phenol-d5	99	5.828	5.833	-0.005	94	449597	40.0	22.9	
$ 9 Nitrobenzene-d5	82	6.773	6.778	-0.005	94	514100	40.0	22.2	
$ 10 2-Fluorobiphenyl	172	8.536	8.536	0.000	100	1359888	40.0	21.2	
$ 11 2,4,6-Tribromophenol	330	9.957	9.957	0.000	86	178215	40.0	23.2	
$ 12 Terphenyl-d14	244	12.580	12.575	0.005	99	1540432	40.0	24.2	
13 1,4-Dioxane	88	1.607	1.623	-0.016	93	88208	40.0	19.7	
14 N-Nitrosodimethylamine	74	2.200	2.216	-0.016	84	129865	40.0	21.5	
15 Pyridine	79	2.275	2.301	-0.026	90	245743	40.0	23.3	
25 Benzaldehyde	77	5.742	5.747	-0.005	89	288321	40.0	30.4	
26 Phenol	94	5.844	5.849	-0.005	97	520806	40.0	23.4	
27 Aniline	93	5.860	5.865	-0.005	66	580841	40.0	23.5	
29 Bis(2-chloroethyl)ether	93	5.929	5.934	-0.005	93	364622	40.0	23.2	
30 2-Chlorophenol	128	5.993	5.998	-0.005	96	455269	40.0	23.9	
31 n-Decane	43	6.057	6.062	-0.005	92	450080	40.0	20.2	
32 1,3-Dichlorobenzene	146	6.153	6.159	-0.006	97	496245	40.0	22.4	
33 1,4-Dichlorobenzene	146	6.234	6.233	0.001	92	510804	40.0	22.4	
34 Benzyl alcohol	108	6.351	6.351	0.000	89	281655	40.0	23.5	
35 1,2-Dichlorobenzene	146	6.388	6.394	-0.006	95	512105	40.0	23.2	
36 2-Methylphenol	108	6.469	6.468	0.001	96	416435	40.0	24.6	
37 Indene	116	6.479	6.484	-0.005	90	732819	40.0	23.9	
38 2,2'-oxybis[1-chloropropan	45	6.495	6.495	0.000	89	718636	40.0	21.7	
40 Acetophenone	105	6.618	6.623	-0.005	76	563260	40.0	22.1	
41 N-Nitrosodi-n-propylamine	70	6.618	6.623	-0.005	73	278515	40.0	23.2	
42 4-Methylphenol	108	6.618	6.623	-0.005	64	398936	40.0	23.0	
45 Hexachloroethane	117	6.741	6.741	0.000	96	238086	40.0	24.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
46 Nitrobenzene	77	6.794	6.794	0.000	93	534054	40.0	23.2	
48 Isophorone	82	7.030	7.029	0.001	98	968928	40.0	23.9	
49 2-Nitrophenol	139	7.115	7.115	0.000	97	309294	40.0	24.3	
50 2,4-Dimethylphenol	107	7.147	7.147	0.000	97	562846	40.0	24.2	
52 Benzoic acid	122	7.222	7.200	0.022	90	321832	40.0	24.2	
53 Bis(2-chloroethoxy)methane	93	7.238	7.238	0.000	96	580124	40.0	23.2	
54 2,4-Dichlorophenol	162	7.355	7.350	0.005	96	493876	40.0	24.3	
56 1,2,4-Trichlorobenzene	180	7.441	7.441	0.000	94	532289	40.0	22.8	
58 Naphthalene	128	7.521	7.521	0.000	97	1727933	40.0	23.1	
59 4-Chloroaniline	127	7.558	7.558	0.000	96	713395	40.0	23.8	
60 2,6-Dichlorophenol	162	7.574	7.574	0.000	95	484405	40.0	24.0	
62 Hexachlorobutadiene	225	7.644	7.644	0.000	97	318100	40.0	22.8	
64 Caprolactam	113	7.879	7.868	0.011	75	186239	40.0	27.3	
67 4-Chloro-3-methylphenol	107	8.018	8.018	0.000	98	548591	40.0	25.7	
69 2-Methylnaphthalene	142	8.194	8.194	0.000	92	1344476	40.0	25.4	
71 1-Methylnaphthalene	142	8.290	8.290	0.000	93	1203719	40.0	24.3	
72 Hexachlorocyclopentadiene	237	8.354	8.354	0.000	97	386979	40.0	22.8	
73 1,2,4,5-Tetrachlorobenzene	216	8.360	8.360	0.000	97	513096	40.0	20.2	
74 2,4,6-Trichlorophenol	196	8.461	8.461	0.000	94	404976	40.0	23.4	
75 2,4,5-Trichlorophenol	196	8.493	8.493	0.000	94	441301	40.0	24.0	
76 1,1'-Biphenyl	154	8.638	8.637	0.001	94	1683360	40.0	22.9	
77 2-Chloronaphthalene	162	8.670	8.669	0.001	97	1276576	40.0	21.5	
79 2-Nitroaniline	65	8.750	8.744	0.006	86	418962	40.0	24.8	
82 Dimethyl phthalate	163	8.905	8.904	0.001	99	1489659	40.0	24.1	
83 1,3-Dinitrobenzene	168	8.942	8.942	0.000	84	252593	40.0	27.1	
84 2,6-Dinitrotoluene	165	8.969	8.969	0.000	92	346860	40.0	25.5	
85 Acenaphthylene	152	9.070	9.070	0.000	98	2295871	40.0	24.4	
86 3-Nitroaniline	138	9.140	9.134	0.006	95	418850	40.0	25.3	
88 Acenaphthene	153	9.236	9.236	0.000	94	1279389	40.0	22.2	
87 2,4-Dinitrophenol	184	9.236	9.236	0.000	82	371390	80.0	41.1	
89 4-Nitrophenol	109	9.273	9.268	0.005	96	468428	80.0	51.2	
91 2,4-Dinitrotoluene	165	9.359	9.359	0.000	92	480470	40.0	26.9	
93 Dibenzofuran	168	9.401	9.396	0.005	96	2050650	40.0	24.8	
96 2,3,4,6-Tetrachlorophenol	232	9.508	9.508	0.000	75	398158	40.0	25.4	
98 Diethyl phthalate	149	9.572	9.572	0.000	98	1441714	40.0	22.8	
99 Hexadecane	57	9.578	9.578	0.000	92	1032384	40.0	25.3	
100 4-Chlorophenyl phenyl ethe	204	9.706	9.706	0.000	97	731196	40.0	24.1	
101 4-Nitroaniline	138	9.722	9.722	0.000	84	388889	40.0	23.8	
103 Fluorene	166	9.727	9.727	0.000	94	1586300	40.0	24.7	
104 4,6-Dinitro-2-methylphenol	198	9.754	9.749	0.005	82	571320	80.0	50.3	
105 N-Nitrosodiphenylamine	169	9.818	9.813	0.005	62	2209260	80.0	44.5	
90 1,2-Diphenylhydrazine	77	9.861	9.861	0.000	99	1717485	40.0	24.2	
110 4-Bromophenyl phenyl ether	248	10.181	10.176	0.005	69	443645	40.0	24.3	
112 Hexachlorobenzene	284	10.267	10.267	0.000	92	435476	40.0	23.9	
113 Atrazine	200	10.304	10.299	0.005	90	413988	40.0	28.7	
116 Pentachlorophenol	266	10.449	10.443	0.006	89	518446	80.0	40.3	
115 n-Octadecane	57	10.454	10.448	0.006	93	1167588	40.0	29.2	
121 Phenanthrene	178	10.678	10.673	0.005	97	2667387	40.0	25.4	
122 Anthracene	178	10.732	10.726	0.006	97	2697399	40.0	25.1	
124 Carbazole	167	10.881	10.881	0.000	96	2449979	40.0	26.1	
126 Di-n-butyl phthalate	149	11.207	11.202	0.005	100	3005214	40.0	25.6	
57 Azobenzene	77		11.891				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
131 Fluoranthene	202	12.083	12.078	0.005	98	2690578	40.0	25.4	
132 Benzidine	184	12.222	12.217	0.005	99	567113	40.0	14.2	
133 Pyrene	202	12.409	12.404	0.005	97	2766186	40.0	28.7	
138 Butyl benzyl phthalate	149	13.323	13.317	0.006	98	1198036	40.0	28.0	
144 3,3'-Dichlorobenzidine	252	14.316	14.316	0.000	75	700468	40.0	24.8	
145 Bis(2-ethylhexyl) phthalat	149	14.364	14.359	0.005	97	1670889	40.0	28.1	
146 Benzo[a]anthracene	228	14.396	14.391	0.005	98	2296253	40.0	27.1	
147 Chrysene	228	14.466	14.455	0.011	98	2143133	40.0	26.9	
150 Di-n-octyl phthalate	149	15.668	15.657	0.011	99	2700768	40.0	28.1	
152 Benzo[b]fluoranthene	252	16.533	16.523	0.010	99	2046873	40.0	25.5	
153 Benzo[k]fluoranthene	252	16.587	16.576	0.011	99	2139596	40.0	27.2	
154 Benzo[a]pyrene	252	17.196	17.185	0.011	80	2002840	40.0	27.7	
157 Indeno[1,2,3-cd]pyrene	276	19.691	19.669	0.022	96	2185231	40.0	28.8	
158 Dibenz(a,h)anthracene	278	19.723	19.706	0.017	90	1842526	40.0	29.2	
159 Benzo[g,h,i]perylene	276	20.380	20.358	0.022	94	1912431	40.0	29.5	
S 199 Total Cresols	108				0		80.0	47.6	
S 197 Methyl Phenols,Total	108				0		80.0	47.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SVTAPITINTRNi_00007 Amount Added: 1.00 Units: uL Run Reagent

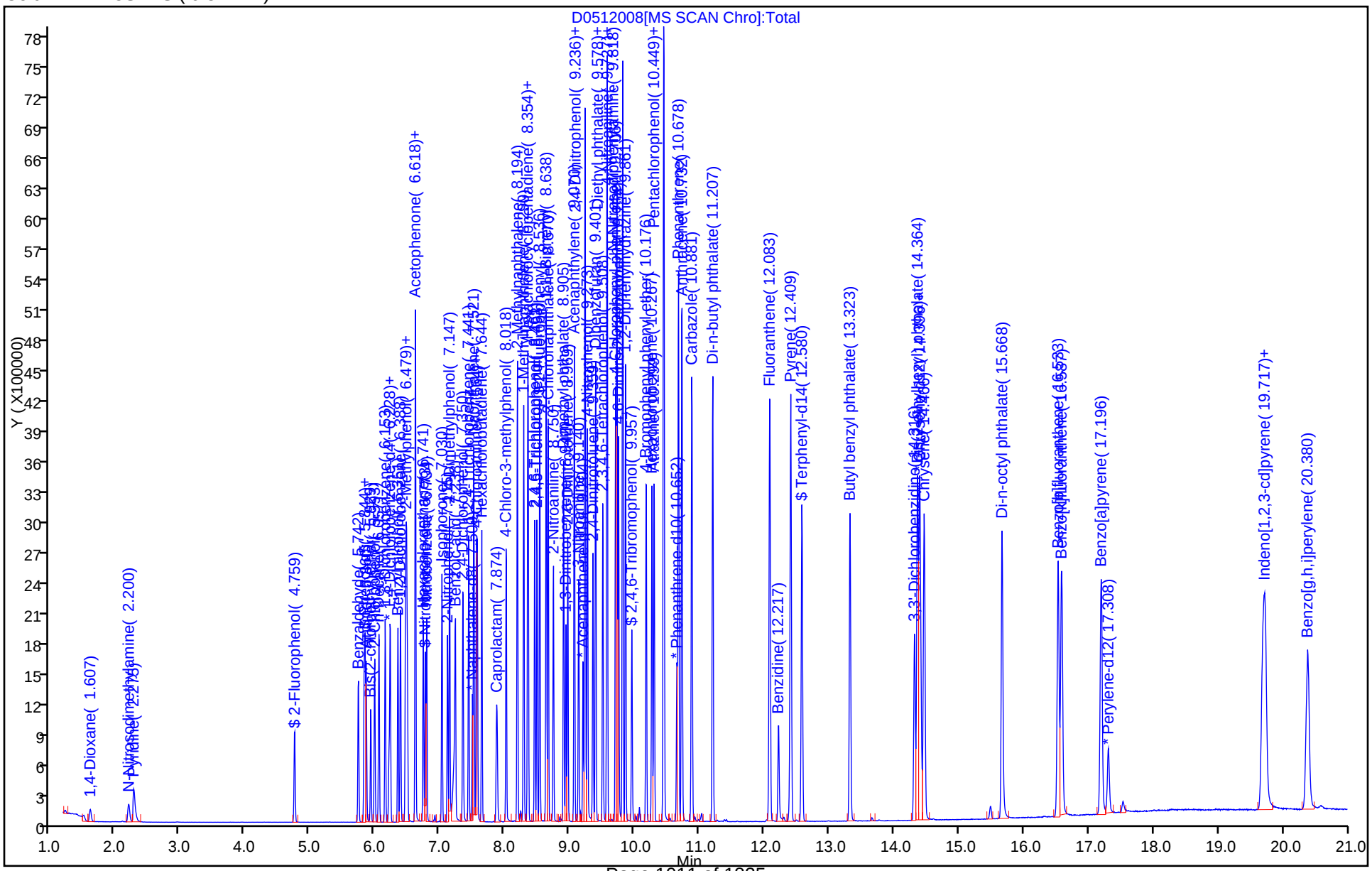
Report Date: 13-May-2015 05:26:02 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512008.D

Injection Date:	12-May-2015 10:20:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	LCS 180-140746/2-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-140846/2-A

Matrix: Water | Lab File ID: D0514N14.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/07/2015 09:32

Sample wt/vol: 250(mL) | Date Analyzed: 05/14/2015 17:30

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141553 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	10.9		0.20	0.029
208-96-8	Acenaphthylene	11.9		0.20	0.022
120-12-7	Anthracene	12.4		0.20	0.019
92-87-5	Benzidine	8.19	J	20	4.7
56-55-3	Benzo[a]anthracene	13.0		0.20	0.037
205-99-2	Benzo[b]fluoranthene	11.8		0.20	0.049
207-08-9	Benzo[k]fluoranthene	13.2		0.20	0.030
65-85-0	Benzoic acid	12.9		5.0	1.6
191-24-2	Benzo[g,h,i]perylene	13.9		0.20	0.029
50-32-8	Benzo[a]pyrene	13.3		0.20	0.028
111-91-1	Bis(2-chloroethoxy)methane	11.8		1.0	0.13
111-44-4	Bis(2-chloroethyl)ether	11.7		1.0	0.032
117-81-7	Bis(2-ethylhexyl) phthalate	13.7		2.0	0.44
108-60-1	2,2'-oxybis[1-chloropropane]	10.8		1.0	0.024
101-55-3	4-Bromophenyl phenyl ether	11.5		1.0	0.12
7005-72-3	4-Chlorophenyl phenyl ether	12.0		1.0	0.080
91-58-7	2-Chloronaphthalene	10.4		0.20	0.031
85-68-7	Butyl benzyl phthalate	13.5		1.0	0.21
218-01-9	Chrysene	13.0		0.20	0.031
53-70-3	Dibenz(a,h)anthracene	13.7		0.20	0.027
84-74-2	Di-n-butyl phthalate	13.1		1.0	0.24
117-84-0	Di-n-octyl phthalate	13.8		1.0	0.20
84-66-2	Diethyl phthalate	11.9		1.0	0.30
131-11-3	Dimethyl phthalate	12.0		1.0	0.18
91-94-1	3,3'-Dichlorobenzidine	13.0		1.0	0.15
121-14-2	2,4-Dinitrotoluene	13.9		1.0	0.21
606-20-2	2,6-Dinitrotoluene	13.0		1.0	0.14
95-57-8	2-Chlorophenol	12.1		1.0	0.23
120-83-2	2,4-Dichlorophenol	12.5		1.0	0.067
105-67-9	2,4-Dimethylphenol	12.6		1.0	0.17
51-28-5	2,4-Dinitrophenol	23.4		5.0	2.5
88-75-5	2-Nitrophenol	12.1		1.0	0.11
88-06-2	2,4,6-Trichlorophenol	11.7		1.0	0.30
122-66-7	1,2-Diphenylhydrazine(as Azobenzene)	11.1		1.0	0.12

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-140846/2-A

Matrix: Water | Lab File ID: D0514N14.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/07/2015 09:32

Sample wt/vol: 250(mL) | Date Analyzed: 05/14/2015 17:30

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141553 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	11.6		1.0	0.085
59-50-7	4-Chloro-3-methylphenol	13.3		1.0	0.17
100-02-7	4-Nitrophenol	27.2		5.0	0.80
534-52-1	4,6-Dinitro-2-methylphenol	25.7		5.0	1.6
206-44-0	Fluoranthene	13.2		0.20	0.021
86-73-7	Fluorene	12.5		0.20	0.024
118-74-1	Hexachlorobenzene	11.4		1.0	0.061
87-68-3	Hexachlorobutadiene	11.6		1.0	0.094
77-47-4	Hexachlorocyclopentadiene	10.8		1.0	0.14
67-72-1	Hexachloroethane	12.0		1.0	0.14
193-39-5	Indeno[1,2,3-cd]pyrene	13.6		0.20	0.043
78-59-1	Isophorone	11.9		1.0	0.074
91-20-3	Naphthalene	11.7		0.20	0.023
98-95-3	Nitrobenzene	11.7		2.0	0.15
621-64-7	N-Nitrosodi-n-propylamine	12.4		1.0	0.050
62-75-9	N-Nitrosodimethylamine	11.8		1.0	0.12
86-30-6	N-Nitrosodiphenylamine	21.1		1.0	0.12
85-01-8	Phenanthrene	12.5		0.20	0.042
129-00-0	Pyrene	12.5		0.20	0.023
87-86-5	Pentachlorophenol	20.5		1.0	0.50
108-95-2	Phenol	11.9		1.0	0.055

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	56		30-118
321-60-8	2-Fluorobiphenyl	52		28-109
367-12-4	2-Fluorophenol (Surr)	56		20-105
4165-60-0	Nitrobenzene-d5 (Surr)	55		27-114
4165-62-2	Phenol-d5 (Surr)	58		25-105
1718-51-0	Terphenyl-d14 (Surr)	54		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N14.D
Lims ID: LCS 180-140846/2-A
Client ID:
Sample Type: LCS
Inject. Date: 14-May-2015 17:30:30 ALS Bottle#: 13 Worklist Smp#: 14
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006915-014
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150514-6915.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 15-May-2015 03:56:52 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: piccolinov Date: 15-May-2015 03:50:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.196	6.196	0.000	97	93433	8.00	8.00	
* 2 Naphthalene-d8	136	7.483	7.484	-0.001	100	458422	8.00	8.00	
* 3 Acenaphthene-d10	164	9.193	9.193	0.000	90	345186	8.00	8.00	
* 4 Phenanthrene-d10	188	10.641	10.641	0.000	97	658651	8.00	8.00	
* 5 Chrysene-d12	240	14.412	14.407	0.005	87	659935	8.00	8.00	
* 6 Perylene-d12	264	17.308	17.308	0.000	95	604025	8.00	8.00	
$ 7 2-Fluorophenol	112	4.754	4.759	-0.005	91	270393	40.0	22.3	
$ 8 Phenol-d5	99	5.822	5.822	0.000	91	381314	40.0	23.4	
$ 9 Nitrobenzene-d5	82	6.757	6.757	0.000	91	426669	40.0	22.2	
$ 10 2-Fluorobiphenyl	172	8.525	8.520	0.005	98	1182567	40.0	20.9	
$ 11 2,4,6-Tribromophenol	330	9.952	9.952	0.000	85	161336	40.0	22.3	
$ 12 Terphenyl-d14	244	12.575	12.569	0.006	99	1540708	40.0	21.4	
13 1,4-Dioxane	88	1.575	1.586	-0.011	92	80736	40.0	21.7	
14 N-Nitrosodimethylamine	74	2.173	2.184	-0.011	75	118623	40.0	23.6	
15 Pyridine	79	2.253	2.270	-0.017	90	231778	40.0	26.4	
25 Benzaldehyde	77	5.726	5.726	0.000	86	248618	40.0	31.5	
26 Phenol	94	5.833	5.838	-0.005	90	439844	40.0	23.7	
27 Aniline	93	5.843	5.849	-0.006	86	488297	40.0	23.8	
29 Bis(2-chloroethyl)ether	93	5.918	5.918	0.000	94	306951	40.0	23.5	
30 2-Chlorophenol	128	5.977	5.982	-0.005	96	383092	40.0	24.2	
31 n-Decane	43	6.041	6.041	0.000	91	366264	40.0	19.7	
32 1,3-Dichlorobenzene	146	6.137	6.137	0.000	96	416162	40.0	22.6	
33 1,4-Dichlorobenzene	146	6.212	6.218	-0.006	92	430176	40.0	22.7	
34 Benzyl alcohol	108	6.335	6.335	0.000	87	247170	40.0	24.8	
35 1,2-Dichlorobenzene	146	6.372	6.372	0.000	89	427495	40.0	23.3	
36 2-Methylphenol	108	6.452	6.453	-0.001	96	351664	40.0	25.0	
37 Indene	116	6.463	6.463	0.000	81	629300	40.0	24.7	
38 2,2'-oxybis[1-chloropropan	45	6.479	6.479	0.000	90	595869	40.0	21.6	
40 Acetophenone	105	6.602	6.602	0.000	78	498974	40.0	23.5	
41 N-Nitrosodi-n-propylamine	70	6.602	6.602	0.000	74	247887	40.0	24.8	
42 4-Methylphenol	108	6.607	6.608	-0.001	70	356337	40.0	24.7	
45 Hexachloroethane	117	6.725	6.725	0.000	97	196023	40.0	23.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
46 Nitrobenzene	77	6.778	6.773	0.005	92	446301	40.0	23.4	
48 Isophorone	82	7.013	7.014	-0.001	96	801711	40.0	23.8	
49 2-Nitrophenol	139	7.099	7.099	0.000	97	256471	40.0	24.3	
50 2,4-Dimethylphenol	107	7.131	7.131	0.000	66	485583	40.0	25.2	
52 Benzoic acid	122	7.211	7.190	0.021	82	285921	40.0	25.8	
53 Bis(2-chloroethoxy)methane	93	7.222	7.222	0.000	92	487546	40.0	23.6	
54 2,4-Dichlorophenol	162	7.339	7.334	0.005	94	421818	40.0	25.0	
56 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	93	447418	40.0	23.1	
58 Naphthalene	128	7.505	7.505	0.000	97	1445795	40.0	23.3	
59 4-Chloroaniline	127	7.548	7.542	0.006	78	618473	40.0	24.9	
60 2,6-Dichlorophenol	162	7.558	7.558	0.000	95	414311	40.0	24.7	
62 Hexachlorobutadiene	225	7.633	7.628	0.005	96	268902	40.0	23.2	
64 Caprolactam	113	7.857	7.847	0.010	69	161715	40.0	28.6	
67 4-Chloro-3-methylphenol	107	8.007	8.002	0.005	92	469331	40.0	26.6	
69 2-Methylnaphthalene	142	8.178	8.178	0.000	86	1129883	40.0	25.8	
71 1-Methylnaphthalene	142	8.274	8.274	0.000	83	1010102	40.0	24.6	
72 Hexachlorocyclopentadiene	237	8.338	8.338	0.000	96	324088	40.0	21.6	
73 1,2,4,5-Tetrachlorobenzene	216	8.344	8.344	0.000	96	437133	40.0	19.4	
74 2,4,6-Trichlorophenol	196	8.445	8.445	0.000	94	357853	40.0	23.3	
75 2,4,5-Trichlorophenol	196	8.482	8.477	0.005	94	376812	40.0	23.1	
76 1,1'-Biphenyl	154	8.627	8.622	0.005	94	1443877	40.0	22.2	
77 2-Chloronaphthalene	162	8.653	8.654	-0.001	72	1099677	40.0	20.9	
79 2-Nitroaniline	65	8.734	8.734	0.000	83	362254	40.0	24.2	
82 Dimethyl phthalate	163	8.894	8.889	0.005	98	1315922	40.0	24.0	
83 1,3-Dinitrobenzene	168	8.931	8.926	0.005	65	224123	40.0	27.1	
84 2,6-Dinitrotoluene	165	8.958	8.953	0.005	67	313391	40.0	26.0	
85 Acenaphthylene	152	9.059	9.054	0.005	91	1984076	40.0	23.8	
86 3-Nitroaniline	138	9.129	9.124	0.005	95	379727	40.0	25.9	
87 2,4-Dinitrophenol	184	9.225	9.220	0.005	59	375498	80.0	46.8	
88 Acenaphthene	153	9.225	9.225	0.000	85	1113619	40.0	21.9	
89 4-Nitrophenol	109	9.268	9.263	0.005	86	440997	80.0	54.4	
91 2,4-Dinitrotoluene	165	9.348	9.343	0.005	88	439467	40.0	27.8	
93 Dibenzofuran	168	9.391	9.385	0.006	83	1779035	40.0	24.3	
96 2,3,4,6-Tetrachlorophenol	232	9.503	9.498	0.005	73	348854	40.0	25.1	
98 Diethyl phthalate	149	9.567	9.562	0.005	97	1332333	40.0	23.8	
99 Hexadecane	57	9.572	9.567	0.005	92	893024	40.0	26.4	
100 4-Chlorophenyl phenyl ethe	204	9.700	9.695	0.005	96	645372	40.0	24.1	
101 4-Nitroaniline	138	9.716	9.711	0.005	64	366021	40.0	25.3	
103 Fluorene	166	9.722	9.717	0.005	73	1416903	40.0	24.9	
104 4,6-Dinitro-2-methylphenol	198	9.743	9.738	0.005	62	550418	80.0	51.4	
105 N-Nitrosodiphenylamine	169	9.813	9.808	0.005	62	1975599	80.0	42.2	
90 1,2-Diphenylhydrazine	77	9.855	9.850	0.005	99	1490341	40.0	22.2	
110 4-Bromophenyl phenyl ether	248	10.176	10.171	0.005	62	395942	40.0	23.0	
112 Hexachlorobenzene	284	10.261	10.262	-0.001	92	391724	40.0	22.8	
113 Atrazine	200	10.293	10.288	0.005	71	395639	40.0	29.1	
116 Pentachlorophenol	266	10.438	10.438	0.000	86	497140	80.0	41.0	
115 n-Octadecane	57	10.448	10.443	0.005	92	1016190	40.0	30.6	
121 Phenanthrene	178	10.667	10.668	-0.001	97	2468420	40.0	24.9	
122 Anthracene	178	10.721	10.716	0.005	97	2513202	40.0	24.8	
124 Carbazole	167	10.870	10.871	-0.001	82	2344417	40.0	26.5	
126 Di-n-butyl phthalate	149	11.196	11.191	0.005	99	2912636	40.0	26.3	
57 Azobenzene	77		11.880				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
131 Fluoranthene	202	12.072	12.073	-0.001	98	2626115	40.0	26.3	
132 Benzidine	184	12.211	12.212	-0.001	98	747025	40.0	16.4	
133 Pyrene	202	12.398	12.399	-0.001	97	2714560	40.0	24.9	
138 Butyl benzyl phthalate	149	13.317	13.317	0.000	96	1307298	40.0	27.0	
144 3,3'-Dichlorobenzidine	252	14.311	14.311	0.000	69	830701	40.0	26.1	
145 Bis(2-ethylhexyl) phthalat	149	14.364	14.364	0.000	97	1834395	40.0	27.4	
146 Benzo[a]anthracene	228	14.396	14.386	0.010	98	2486588	40.0	26.0	
147 Chrysene	228	14.466	14.455	0.011	94	2333826	40.0	25.9	
150 Di-n-octyl phthalate	149	15.668	15.668	0.000	99	3242100	40.0	27.6	
152 Benzo[b]fluoranthene	252	16.533	16.528	0.005	92	2303903	40.0	23.5	
153 Benzo[k]fluoranthene	252	16.587	16.581	0.006	94	2535484	40.0	26.4	
154 Benzo[a]pyrene	252	17.196	17.191	0.006	75	2347545	40.0	26.6	
157 Indeno[1,2,3-cd]pyrene	276	19.680	19.675	0.005	90	2519993	40.0	27.2	
158 Dibenz(a,h)anthracene	278	19.712	19.707	0.005	69	2106581	40.0	27.3	
159 Benzo[g,h,i]perylene	276	20.374	20.358	0.016	87	2201703	40.0	27.8	
S 197 Methyl Phenols,Total	108				0		80.0	49.7	
S 199 Total Cresols	108				0		80.0	49.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SVTAPITINTRNi_00007 Amount Added: 1.00 Units: uL Run Reagent

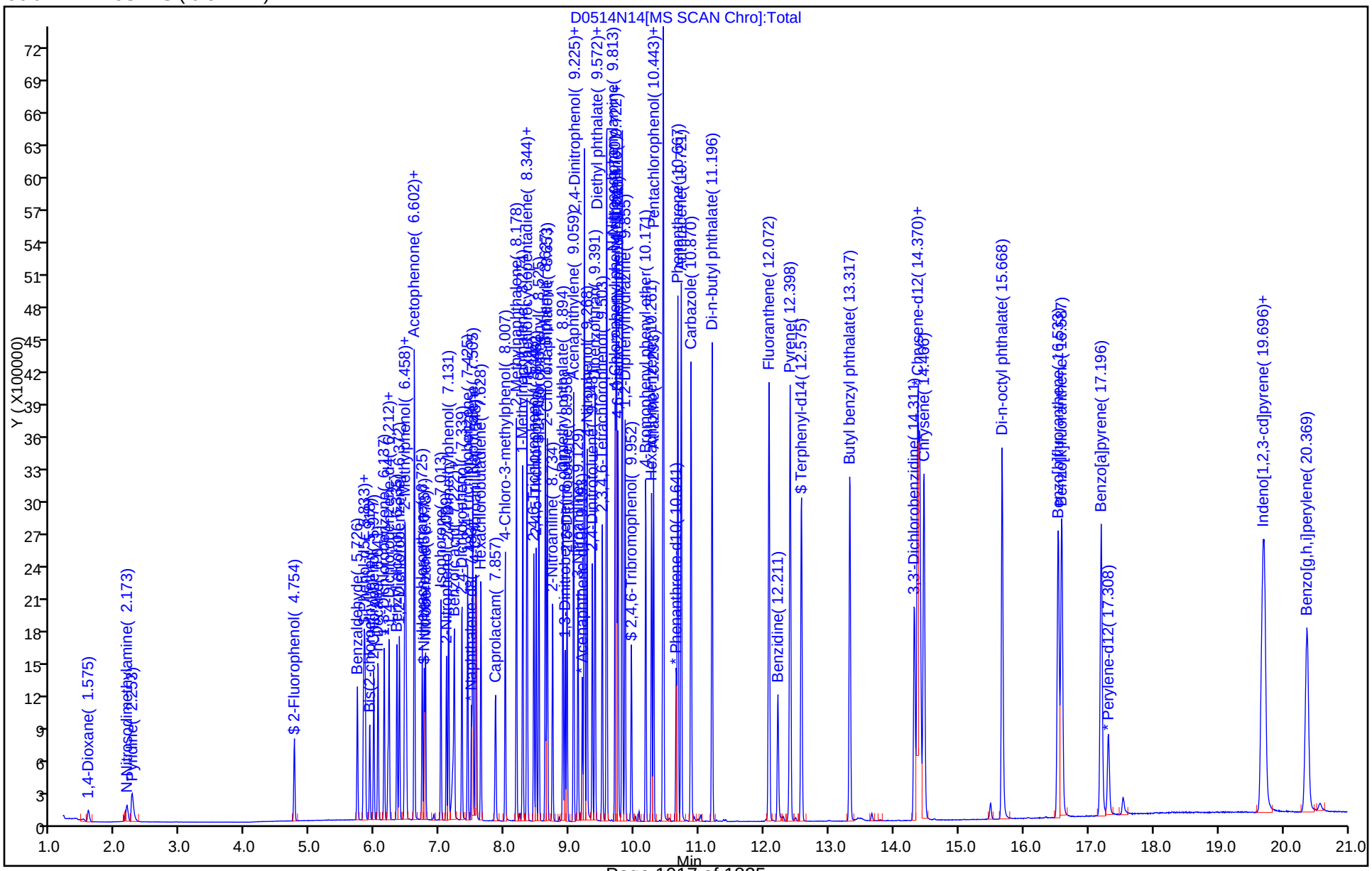
Report Date: 15-May-2015 03:57:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N14.D

Injection Date:	14-May-2015 17:30:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	LCS 180-140846/2-A			Worklist Smp#:	14
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-140746/3-A

Matrix: Water | Lab File ID: D0512009.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/06/2015 12:13

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2015 10:46

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141231 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	10.8		0.20	0.029
208-96-8	Acenaphthylene	11.9		0.20	0.022
120-12-7	Anthracene	12.4		0.20	0.019
92-87-5	Benzidine	7.09	J	20	4.7
56-55-3	Benzo[a]anthracene	13.2		0.20	0.037
205-99-2	Benzo[b]fluoranthene	12.4		0.20	0.049
207-08-9	Benzo[k]fluoranthene	13.4		0.20	0.030
65-85-0	Benzoic acid	12.2		5.0	1.6
191-24-2	Benzo[g,h,i]perylene	14.1		0.20	0.029
50-32-8	Benzo[a]pyrene	13.5		0.20	0.028
111-91-1	Bis(2-chloroethoxy)methane	11.4		1.0	0.13
111-44-4	Bis(2-chloroethyl)ether	11.4		1.0	0.032
117-81-7	Bis(2-ethylhexyl) phthalate	13.8		2.0	0.44
108-60-1	2,2'-oxybis[1-chloropropane]	10.9		1.0	0.024
101-55-3	4-Bromophenyl phenyl ether	12.0		1.0	0.12
7005-72-3	4-Chlorophenyl phenyl ether	11.8		1.0	0.080
91-58-7	2-Chloronaphthalene	10.6		0.20	0.031
85-68-7	Butyl benzyl phthalate	13.8		1.0	0.21
218-01-9	Chrysene	13.5		0.20	0.031
53-70-3	Dibenz(a,h)anthracene	13.9		0.20	0.027
84-74-2	Di-n-butyl phthalate	12.8		1.0	0.24
117-84-0	Di-n-octyl phthalate	13.9		1.0	0.20
84-66-2	Diethyl phthalate	10.8		1.0	0.30
131-11-3	Dimethyl phthalate	11.7		1.0	0.18
91-94-1	3,3'-Dichlorobenzidine	12.3		1.0	0.15
121-14-2	2,4-Dinitrotoluene	13.2		1.0	0.21
606-20-2	2,6-Dinitrotoluene	12.7		1.0	0.14
95-57-8	2-Chlorophenol	12.1		1.0	0.23
120-83-2	2,4-Dichlorophenol	12.0		1.0	0.067
105-67-9	2,4-Dimethylphenol	12.0		1.0	0.17
51-28-5	2,4-Dinitrophenol	21.1		5.0	2.5
88-75-5	2-Nitrophenol	12.0		1.0	0.11
88-06-2	2,4,6-Trichlorophenol	11.5		1.0	0.30
122-66-7	1,2-Diphenylhydrazine(as Azobenzene)	11.8		1.0	0.12

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-140746/3-A

Matrix: Water | Lab File ID: D0512009.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/06/2015 12:13

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2015 10:46

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141231 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	11.3		1.0	0.085
59-50-7	4-Chloro-3-methylphenol	12.8		1.0	0.17
100-02-7	4-Nitrophenol	25.5		5.0	0.80
534-52-1	4,6-Dinitro-2-methylphenol	24.9		5.0	1.6
206-44-0	Fluoranthene	12.5		0.20	0.021
86-73-7	Fluorene	12.0		0.20	0.024
118-74-1	Hexachlorobenzene	11.7		1.0	0.061
87-68-3	Hexachlorobutadiene	11.3		1.0	0.094
77-47-4	Hexachlorocyclopentadiene	11.2		1.0	0.14
67-72-1	Hexachloroethane	12.2		1.0	0.14
193-39-5	Indeno[1,2,3-cd]pyrene	14.1		0.20	0.043
78-59-1	Isophorone	11.5		1.0	0.074
91-20-3	Naphthalene	11.4		0.20	0.023
98-95-3	Nitrobenzene	11.4		2.0	0.15
621-64-7	N-Nitrosodi-n-propylamine	11.6		1.0	0.050
62-75-9	N-Nitrosodimethylamine	11.6		1.0	0.12
86-30-6	N-Nitrosodiphenylamine	21.7		1.0	0.12
85-01-8	Phenanthrene	12.6		0.20	0.042
129-00-0	Pyrene	14.0		0.20	0.023
87-86-5	Pentachlorophenol	20.4		1.0	0.50
108-95-2	Phenol	11.5		1.0	0.055

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	57		30-118
321-60-8	2-Fluorobiphenyl	53		28-109
367-12-4	2-Fluorophenol (Surr)	53		20-105
4165-60-0	Nitrobenzene-d5 (Surr)	55		27-114
4165-62-2	Phenol-d5 (Surr)	57		25-105
1718-51-0	Terphenyl-d14 (Surr)	59		20-118

Report Date: 13-May-2015 05:26:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512009.D
Lims ID: LCSD 180-140746/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-May-2015 10:46:30 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006874-009
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150512-6874.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 13-May-2015 05:25:53 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: piccolinov Date: 12-May-2015 12:02:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.201	6.217	-0.016	97	115239	8.00	8.00	
* 2 Naphthalene-d8	136	7.494	7.499	-0.005	100	573586	8.00	8.00	
* 3 Acenaphthene-d10	164	9.198	9.204	-0.006	91	412560	8.00	8.00	
* 4 Phenanthrene-d10	188	10.646	10.651	-0.005	97	734481	8.00	8.00	
* 5 Chrysene-d12	240	14.412	14.412	0.000	96	631873	8.00	8.00	
* 6 Perylene-d12	264	17.303	17.297	0.006	95	538551	8.00	8.00	
$ 7 2-Fluorophenol	112	4.743	4.764	-0.021	92	315668	40.0	21.1	
$ 8 Phenol-d5	99	5.822	5.833	-0.011	94	455445	40.0	22.6	
$ 9 Nitrobenzene-d5	82	6.768	6.778	-0.010	93	531927	40.0	22.1	
$ 10 2-Fluorobiphenyl	172	8.531	8.536	-0.005	99	1432793	40.0	21.1	
$ 11 2,4,6-Tribromophenol	330	9.952	9.957	-0.005	86	183256	40.0	22.7	
$ 12 Terphenyl-d14	244	12.569	12.575	-0.006	99	1610740	40.0	23.4	
13 1,4-Dioxane	88	1.591	1.623	-0.032	93	99607	40.0	21.7	
14 N-Nitrosodimethylamine	74	2.179	2.216	-0.037	84	143820	40.0	23.2	
15 Pyridine	79	2.259	2.301	-0.042	91	268662	40.0	24.8	
25 Benzaldehyde	77	5.731	5.747	-0.016	89	295471	40.0	30.4	
26 Phenol	94	5.833	5.849	-0.016	97	525230	40.0	23.0	
27 Aniline	93	5.854	5.865	-0.011	64	587284	40.0	23.2	
29 Bis(2-chloroethyl)ether	93	5.924	5.934	-0.010	93	368299	40.0	22.8	
30 2-Chlorophenol	128	5.982	5.998	-0.016	96	470928	40.0	24.1	
31 n-Decane	43	6.046	6.062	-0.016	91	452674	40.0	19.8	
32 1,3-Dichlorobenzene	146	6.148	6.159	-0.011	97	509676	40.0	22.4	
33 1,4-Dichlorobenzene	146	6.223	6.233	-0.010	93	532459	40.0	22.8	
34 Benzyl alcohol	108	6.340	6.351	-0.011	89	291661	40.0	23.8	
35 1,2-Dichlorobenzene	146	6.383	6.394	-0.011	96	522937	40.0	23.1	
36 2-Methylphenol	108	6.458	6.468	-0.010	97	427383	40.0	24.7	
37 Indene	116	6.474	6.484	-0.010	90	752045	40.0	23.9	
38 2,2'-oxybis[1-chloropropan	45	6.485	6.495	-0.010	89	743270	40.0	21.9	
40 Acetophenone	105	6.613	6.623	-0.010	77	578413	40.0	22.1	
41 N-Nitrosodi-n-propylamine	70	6.613	6.623	-0.010	74	285539	40.0	23.2	
42 4-Methylphenol	108	6.613	6.623	-0.010	65	420235	40.0	23.6	
45 Hexachloroethane	117	6.736	6.741	-0.005	96	247301	40.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
46 Nitrobenzene	77	6.784	6.794	-0.010	94	547059	40.0	22.9	
48 Isophorone	82	7.024	7.029	-0.005	98	967523	40.0	23.0	
49 2-Nitrophenol	139	7.110	7.115	-0.005	98	316237	40.0	23.9	
50 2,4-Dimethylphenol	107	7.142	7.147	-0.005	97	580631	40.0	24.1	
52 Benzoic acid	122	7.222	7.200	0.022	91	335544	40.0	24.3	
53 Bis(2-chloroethoxy)methane	93	7.227	7.238	-0.011	96	591634	40.0	22.9	
54 2,4-Dichlorophenol	162	7.345	7.350	-0.005	95	506219	40.0	24.0	
56 1,2,4-Trichlorobenzene	180	7.435	7.441	-0.006	94	547676	40.0	22.6	
58 Naphthalene	128	7.516	7.521	-0.005	97	1768659	40.0	22.8	
59 4-Chloroaniline	127	7.553	7.558	-0.005	96	739366	40.0	23.8	
60 2,6-Dichlorophenol	162	7.569	7.574	-0.005	95	499794	40.0	23.8	
62 Hexachlorobutadiene	225	7.638	7.644	-0.006	96	325736	40.0	22.5	
64 Caprolactam	113	7.868	7.868	0.000	74	191885	40.0	27.2	
67 4-Chloro-3-methylphenol	107	8.012	8.018	-0.006	97	565899	40.0	25.6	
69 2-Methylnaphthalene	142	8.189	8.194	-0.005	92	1400963	40.0	25.5	
71 1-Methylnaphthalene	142	8.285	8.290	-0.005	93	1249643	40.0	24.3	
72 Hexachlorocyclopentadiene	237	8.344	8.354	-0.010	97	401407	40.0	22.4	
73 1,2,4,5-Tetrachlorobenzene	216	8.354	8.360	-0.006	98	532940	40.0	19.8	
74 2,4,6-Trichlorophenol	196	8.456	8.461	-0.005	94	420895	40.0	22.9	
75 2,4,5-Trichlorophenol	196	8.488	8.493	-0.005	93	453551	40.0	23.3	
76 1,1'-Biphenyl	154	8.632	8.637	-0.005	95	1727919	40.0	22.3	
77 2-Chloronaphthalene	162	8.664	8.669	-0.005	97	1331862	40.0	21.2	
79 2-Nitroaniline	65	8.739	8.744	-0.005	85	437798	40.0	24.5	
82 Dimethyl phthalate	163	8.899	8.904	-0.005	98	1538583	40.0	23.5	
83 1,3-Dinitrobenzene	168	8.937	8.942	-0.005	84	261674	40.0	26.5	
84 2,6-Dinitrotoluene	165	8.963	8.969	-0.006	93	364439	40.0	25.3	
85 Acenaphthylene	152	9.065	9.070	-0.005	98	2370544	40.0	23.8	
86 3-Nitroaniline	138	9.134	9.134	0.000	95	439046	40.0	25.1	
88 Acenaphthene	153	9.230	9.236	-0.006	90	1321222	40.0	21.7	
87 2,4-Dinitrophenol	184	9.230	9.236	-0.006	79	404512	80.0	42.3	
89 4-Nitrophenol	109	9.268	9.268	0.000	96	494988	80.0	51.1	
91 2,4-Dinitrotoluene	165	9.353	9.359	-0.006	92	500352	40.0	26.5	
93 Dibenzofuran	168	9.396	9.396	0.000	96	2103953	40.0	24.1	
96 2,3,4,6-Tetrachlorophenol	232	9.503	9.508	-0.005	75	411738	40.0	24.8	
98 Diethyl phthalate	149	9.567	9.572	-0.005	97	1447110	40.0	21.6	
99 Hexadecane	57	9.572	9.578	-0.006	92	1028711	40.0	24.3	
100 4-Chlorophenyl phenyl ethe	204	9.701	9.706	-0.005	97	757080	40.0	23.6	
101 4-Nitroaniline	138	9.717	9.722	-0.005	84	403292	40.0	23.3	
103 Fluorene	166	9.722	9.727	-0.005	95	1637044	40.0	24.1	
104 4,6-Dinitro-2-methylphenol	198	9.749	9.749	0.000	81	595094	80.0	49.8	
105 N-Nitrosodiphenylamine	169	9.813	9.813	0.000	63	2267768	80.0	43.5	
90 1,2-Diphenylhydrazine	77	9.855	9.861	-0.006	99	1758707	40.0	23.5	
110 4-Bromophenyl phenyl ether	248	10.176	10.176	0.000	69	460195	40.0	24.0	
112 Hexachlorobenzene	284	10.261	10.267	-0.006	92	449324	40.0	23.4	
113 Atrazine	200	10.299	10.299	0.000	90	428624	40.0	28.3	
116 Pentachlorophenol	266	10.438	10.443	-0.005	89	551405	80.0	40.8	
115 n-Octadecane	57	10.448	10.448	0.000	93	1205797	40.0	29.4	
121 Phenanthrene	178	10.673	10.673	0.000	97	2789517	40.0	25.3	
122 Anthracene	178	10.721	10.726	-0.005	97	2808429	40.0	24.9	
124 Carbazole	167	10.876	10.881	-0.005	96	2556575	40.0	25.9	
126 Di-n-butyl phthalate	149	11.202	11.202	0.000	100	3151802	40.0	25.5	
57 Azobenzene	77		11.891				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
131 Fluoranthene	202	12.078	12.078	0.000	98	2777526	40.0	24.9	
132 Benzidine	184	12.211	12.217	-0.006	100	610668	40.0	14.2	
133 Pyrene	202	12.404	12.404	0.000	97	2927979	40.0	28.1	
138 Butyl benzyl phthalate	149	13.317	13.317	0.000	98	1278675	40.0	27.6	
144 3,3'-Dichlorobenzidine	252	14.311	14.316	-0.005	75	751394	40.0	24.7	
145 Bis(2-ethylhexyl) phthalat	149	14.354	14.359	-0.005	97	1767929	40.0	27.6	
146 Benzo[a]anthracene	228	14.391	14.391	0.000	98	2419020	40.0	26.5	
147 Chrysene	228	14.460	14.455	0.005	98	2326253	40.0	27.0	
150 Di-n-octyl phthalate	149	15.662	15.657	0.005	99	2908320	40.0	27.8	
152 Benzo[b]fluoranthene	252	16.528	16.523	0.005	99	2162155	40.0	24.8	
153 Benzo[k]fluoranthene	252	16.581	16.576	0.005	99	2298143	40.0	26.9	
154 Benzo[a]pyrene	252	17.190	17.185	0.005	80	2128142	40.0	27.1	
157 Indeno[1,2,3-cd]pyrene	276	19.680	19.669	0.011	96	2328578	40.0	28.1	
158 Dibenz(a,h)anthracene	278	19.717	19.706	0.011	90	1915908	40.0	27.9	
159 Benzo[g,h,i]perylene	276	20.374	20.358	0.016	94	1984316	40.0	28.1	
S 199 Total Cresols	108				0		80.0	48.3	
S 197 Methyl Phenols,Total	108				0		80.0	48.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SVTAPITINTRNi_00007 Amount Added: 1.00 Units: uL Run Reagent

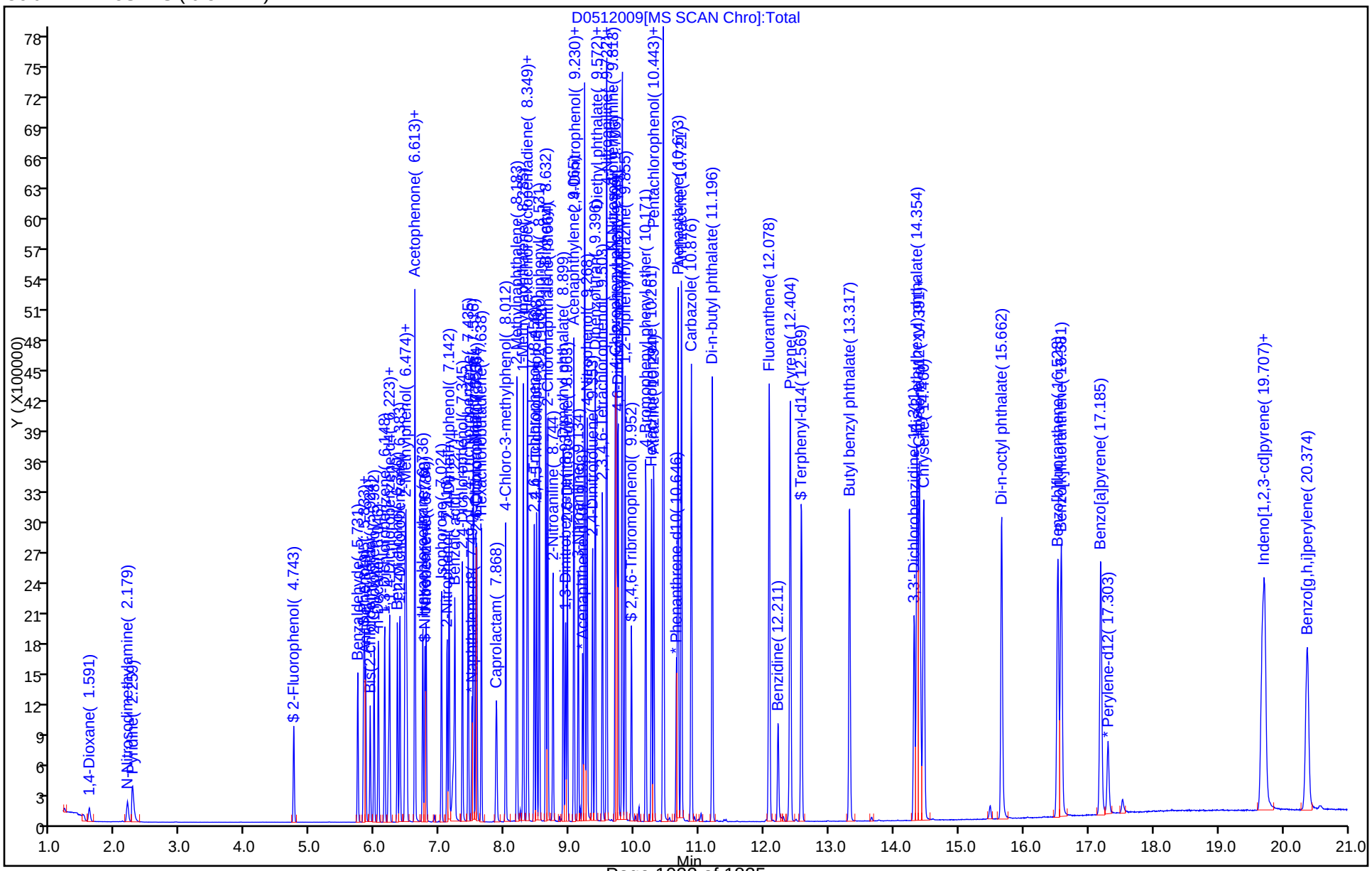
Report Date: 13-May-2015 05:26:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150512-6874.b\D0512009.D

Injection Date:	12-May-2015 10:46:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	LCSD 180-140746/3-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-140846/3-A

Matrix: Water | Lab File ID: D0514N15.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/07/2015 09:32

Sample wt/vol: 250(mL) | Date Analyzed: 05/14/2015 17:57

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141553 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	11.1		0.20	0.029
208-96-8	Acenaphthylene	12.2		0.20	0.022
120-12-7	Anthracene	12.4		0.20	0.019
92-87-5	Benzidine	8.01	J	20	4.7
56-55-3	Benzo[a]anthracene	13.2		0.20	0.037
205-99-2	Benzo[b]fluoranthene	12.3		0.20	0.049
207-08-9	Benzo[k]fluoranthene	13.6		0.20	0.030
65-85-0	Benzoic acid	13.7		5.0	1.6
191-24-2	Benzo[g,h,i]perylene	14.1		0.20	0.029
50-32-8	Benzo[a]pyrene	13.5		0.20	0.028
111-91-1	Bis(2-chloroethoxy)methane	11.9		1.0	0.13
111-44-4	Bis(2-chloroethyl)ether	11.7		1.0	0.032
117-81-7	Bis(2-ethylhexyl) phthalate	14.0		2.0	0.44
108-60-1	2,2'-oxybis[1-chloropropane]	11.0		1.0	0.024
101-55-3	4-Bromophenyl phenyl ether	11.9		1.0	0.12
7005-72-3	4-Chlorophenyl phenyl ether	12.4		1.0	0.080
91-58-7	2-Chloronaphthalene	10.6		0.20	0.031
85-68-7	Butyl benzyl phthalate	14.0		1.0	0.21
218-01-9	Chrysene	13.6		0.20	0.031
53-70-3	Dibenz(a,h)anthracene	13.9		0.20	0.027
84-74-2	Di-n-butyl phthalate	13.5		1.0	0.24
117-84-0	Di-n-octyl phthalate	14.3		1.0	0.20
84-66-2	Diethyl phthalate	11.9		1.0	0.30
131-11-3	Dimethyl phthalate	12.3		1.0	0.18
91-94-1	3,3'-Dichlorobenzidine	13.1		1.0	0.15
121-14-2	2,4-Dinitrotoluene	14.1		1.0	0.21
606-20-2	2,6-Dinitrotoluene	13.2		1.0	0.14
95-57-8	2-Chlorophenol	12.5		1.0	0.23
120-83-2	2,4-Dichlorophenol	12.7		1.0	0.067
105-67-9	2,4-Dimethylphenol	12.8		1.0	0.17
51-28-5	2,4-Dinitrophenol	23.4		5.0	2.5
88-75-5	2-Nitrophenol	12.4		1.0	0.11
88-06-2	2,4,6-Trichlorophenol	11.8		1.0	0.30
122-66-7	1,2-Diphenylhydrazine(as Azobenzene)	11.4		1.0	0.12

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-140846/3-A

Matrix: Water | Lab File ID: D0514N15.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/07/2015 09:32

Sample wt/vol: 250(mL) | Date Analyzed: 05/14/2015 17:57

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 141553 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	11.7		1.0	0.085
59-50-7	4-Chloro-3-methylphenol	13.7		1.0	0.17
100-02-7	4-Nitrophenol	27.5		5.0	0.80
534-52-1	4,6-Dinitro-2-methylphenol	26.2		5.0	1.6
206-44-0	Fluoranthene	13.5		0.20	0.021
86-73-7	Fluorene	12.6		0.20	0.024
118-74-1	Hexachlorobenzene	11.5		1.0	0.061
87-68-3	Hexachlorobutadiene	11.7		1.0	0.094
77-47-4	Hexachlorocyclopentadiene	11.0		1.0	0.14
67-72-1	Hexachloroethane	12.2		1.0	0.14
193-39-5	Indeno[1,2,3-cd]pyrene	13.8		0.20	0.043
78-59-1	Isophorone	12.3		1.0	0.074
91-20-3	Naphthalene	11.8		0.20	0.023
98-95-3	Nitrobenzene	11.7		2.0	0.15
621-64-7	N-Nitrosodi-n-propylamine	12.7		1.0	0.050
62-75-9	N-Nitrosodimethylamine	12.1		1.0	0.12
86-30-6	N-Nitrosodiphenylamine	21.9		1.0	0.12
85-01-8	Phenanthrene	12.7		0.20	0.042
129-00-0	Pyrene	13.1		0.20	0.023
87-86-5	Pentachlorophenol	20.6		1.0	0.50
108-95-2	Phenol	12.2		1.0	0.055

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	56		30-118
321-60-8	2-Fluorobiphenyl	53		28-109
367-12-4	2-Fluorophenol (Surr)	57		20-105
4165-60-0	Nitrobenzene-d5 (Surr)	56		27-114
4165-62-2	Phenol-d5 (Surr)	60		25-105
1718-51-0	Terphenyl-d14 (Surr)	55		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N15.D
Lims ID: LCSD 180-140846/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 14-May-2015 17:57:30 ALS Bottle#: 14 Worklist Smp#: 15
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006915-015
Operator ID: 003200 Instrument ID: CH732

Method: \\PITCHROM\ChromData\CH732\20150514-6915.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 15-May-2015 03:56:52 Calib Date: 18-Mar-2015 11:54:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CH732\20150318-6063.b\D0318011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: piccolinov Date: 15-May-2015 03:51:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.196	6.196	0.000	96	91642	8.00	8.00	
* 2 Naphthalene-d8	136	7.484	7.484	0.000	100	456934	8.00	8.00	
* 3 Acenaphthene-d10	164	9.193	9.193	0.000	89	345448	8.00	8.00	
* 4 Phenanthrene-d10	188	10.641	10.641	0.000	97	660240	8.00	8.00	
* 5 Chrysene-d12	240	14.413	14.407	0.006	82	648626	8.00	8.00	
* 6 Perylene-d12	264	17.303	17.308	-0.005	95	577618	8.00	8.00	
$ 7 2-Fluorophenol	112	4.754	4.759	-0.005	89	271757	40.0	22.9	
$ 8 Phenol-d5	99	5.817	5.822	-0.005	92	382421	40.0	23.9	
$ 9 Nitrobenzene-d5	82	6.757	6.757	0.000	91	432522	40.0	22.6	
$ 10 2-Fluorobiphenyl	172	8.525	8.520	0.005	98	1195195	40.0	21.1	
$ 11 2,4,6-Tribromophenol	330	9.952	9.952	0.000	85	162827	40.0	22.4	
$ 12 Terphenyl-d14	244	12.575	12.569	0.006	99	1564694	40.0	22.2	
13 1,4-Dioxane	88	1.580	1.586	-0.006	91	83567	40.0	22.9	
14 N-Nitrosodimethylamine	74	2.168	2.184	-0.016	77	119227	40.0	24.2	
15 Pyridine	79	2.248	2.270	-0.022	89	236530	40.0	27.5	
25 Benzaldehyde	77	5.721	5.726	-0.005	87	245106	40.0	31.7	
26 Phenol	94	5.833	5.838	-0.005	90	444109	40.0	24.4	
27 Aniline	93	5.844	5.849	-0.005	89	488055	40.0	24.3	
29 Bis(2-chloroethyl)ether	93	5.913	5.918	-0.005	91	301384	40.0	23.5	
30 2-Chlorophenol	128	5.977	5.982	-0.005	96	389057	40.0	25.1	
31 n-Decane	43	6.041	6.041	0.000	92	370106	40.0	20.3	
32 1,3-Dichlorobenzene	146	6.137	6.137	0.000	96	420448	40.0	23.3	
33 1,4-Dichlorobenzene	146	6.212	6.218	-0.006	92	430623	40.0	23.2	
34 Benzyl alcohol	108	6.335	6.335	0.000	88	250361	40.0	25.6	
35 1,2-Dichlorobenzene	146	6.372	6.372	0.000	91	429705	40.0	23.8	
36 2-Methylphenol	108	6.453	6.453	0.000	96	351391	40.0	25.5	
37 Indene	116	6.463	6.463	0.000	74	632947	40.0	25.3	
38 2,2'-oxybis[1-chloropropan	45	6.479	6.479	0.000	90	595179	40.0	22.0	
40 Acetophenone	105	6.602	6.602	0.000	77	497050	40.0	23.9	
41 N-Nitrosodi-n-propylamine	70	6.602	6.602	0.000	74	249095	40.0	25.4	
42 4-Methylphenol	108	6.608	6.608	0.000	74	356183	40.0	25.2	
45 Hexachloroethane	117	6.725	6.725	0.000	95	196084	40.0	24.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
46 Nitrobenzene	77	6.773	6.773	0.000	91	445225	40.0	23.4	
48 Isophorone	82	7.014	7.014	0.000	96	826630	40.0	24.7	
49 2-Nitrophenol	139	7.099	7.099	0.000	98	262104	40.0	24.9	
50 2,4-Dimethylphenol	107	7.131	7.131	0.000	77	494071	40.0	25.7	
52 Benzoic acid	122	7.211	7.190	0.021	78	303658	40.0	27.4	
53 Bis(2-chloroethoxy)methane	93	7.222	7.222	0.000	93	491494	40.0	23.8	
54 2,4-Dichlorophenol	162	7.334	7.334	0.000	95	426211	40.0	25.4	
56 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	92	451702	40.0	23.4	
58 Naphthalene	128	7.505	7.505	0.000	97	1460800	40.0	23.6	
59 4-Chloroaniline	127	7.542	7.542	0.000	73	637697	40.0	25.7	
60 2,6-Dichlorophenol	162	7.558	7.558	0.000	94	418859	40.0	25.1	
62 Hexachlorobutadiene	225	7.633	7.628	0.005	95	269454	40.0	23.4	
64 Caprolactam	113	7.858	7.847	0.011	68	165606	40.0	29.4	
67 4-Chloro-3-methylphenol	107	8.007	8.002	0.005	92	483000	40.0	27.4	
69 2-Methylnaphthalene	142	8.178	8.178	0.000	87	1157397	40.0	26.5	
71 1-Methylnaphthalene	142	8.274	8.274	0.000	83	1034102	40.0	25.2	
72 Hexachlorocyclopentadiene	237	8.338	8.338	0.000	95	331912	40.0	22.1	
73 1,2,4,5-Tetrachlorobenzene	216	8.344	8.344	0.000	96	441115	40.0	19.6	
74 2,4,6-Trichlorophenol	196	8.445	8.445	0.000	94	362619	40.0	23.6	
75 2,4,5-Trichlorophenol	196	8.483	8.477	0.006	94	385057	40.0	23.6	
76 1,1'-Biphenyl	154	8.627	8.622	0.005	94	1476841	40.0	22.7	
77 2-Chloronaphthalene	162	8.654	8.654	0.000	71	1117907	40.0	21.2	
79 2-Nitroaniline	65	8.734	8.734	0.000	84	369815	40.0	24.7	
82 Dimethyl phthalate	163	8.894	8.889	0.005	98	1350935	40.0	24.6	
83 1,3-Dinitrobenzene	168	8.931	8.926	0.005	63	229558	40.0	27.8	
84 2,6-Dinitrotoluene	165	8.958	8.953	0.005	66	317404	40.0	26.3	
85 Acenaphthylene	152	9.060	9.054	0.006	91	2042311	40.0	24.5	
86 3-Nitroaniline	138	9.129	9.124	0.005	96	391359	40.0	26.7	
87 2,4-Dinitrophenol	184	9.225	9.220	0.005	58	375230	80.0	46.8	
88 Acenaphthene	153	9.225	9.225	0.000	85	1135197	40.0	22.3	
89 4-Nitrophenol	109	9.268	9.263	0.005	54	446813	80.0	55.1	
91 2,4-Dinitrotoluene	165	9.348	9.343	0.005	92	447658	40.0	28.3	
93 Dibenzofuran	168	9.391	9.385	0.006	83	1812894	40.0	24.8	
96 2,3,4,6-Tetrachlorophenol	232	9.503	9.498	0.005	72	358651	40.0	25.8	
98 Diethyl phthalate	149	9.567	9.562	0.005	96	1329522	40.0	23.7	
99 Hexadecane	57	9.572	9.567	0.005	92	894860	40.0	26.5	
100 4-Chlorophenyl phenyl ethe	204	9.701	9.695	0.006	95	668474	40.0	24.9	
101 4-Nitroaniline	138	9.717	9.711	0.006	61	370589	40.0	25.6	
103 Fluorene	166	9.722	9.717	0.005	82	1430924	40.0	25.1	
104 4,6-Dinitro-2-methylphenol	198	9.743	9.738	0.005	62	562991	80.0	52.5	
105 N-Nitrosodiphenylamine	169	9.813	9.808	0.005	60	2054696	80.0	43.8	
90 1,2-Diphenylhydrazine	77	9.856	9.850	0.006	99	1535643	40.0	22.9	
110 4-Bromophenyl phenyl ether	248	10.171	10.171	0.000	66	409343	40.0	23.7	
112 Hexachlorobenzene	284	10.262	10.262	0.000	92	397548	40.0	23.1	
113 Atrazine	200	10.294	10.288	0.006	71	396862	40.0	29.1	
116 Pentachlorophenol	266	10.438	10.438	0.000	87	500008	80.0	41.2	
115 n-Octadecane	57	10.449	10.443	0.006	92	1022885	40.0	31.4	
121 Phenanthrene	178	10.668	10.668	0.000	97	2510233	40.0	25.3	
122 Anthracene	178	10.721	10.716	0.005	97	2513986	40.0	24.8	
124 Carbazole	167	10.871	10.871	0.000	82	2366594	40.0	26.7	
126 Di-n-butyl phthalate	149	11.197	11.191	0.006	100	2989756	40.0	26.9	
57 Azobenzene	77		11.880				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
131 Fluoranthene	202	12.073	12.073	0.000	98	2709900	40.0	27.1	
132 Benzidine	184	12.212	12.212	0.000	99	716718	40.0	16.0	
133 Pyrene	202	12.399	12.399	0.000	97	2798061	40.0	26.1	
138 Butyl benzyl phthalate	149	13.323	13.317	0.006	96	1327029	40.0	27.9	
144 3,3'-Dichlorobenzidine	252	14.316	14.311	0.005	69	821770	40.0	26.3	
145 Bis(2-ethylhexyl) phthalat	149	14.364	14.364	0.000	97	1843333	40.0	28.0	
146 Benzo[a]anthracene	228	14.391	14.386	0.005	98	2480551	40.0	26.4	
147 Chrysene	228	14.466	14.455	0.011	94	2398322	40.0	27.1	
150 Di-n-octyl phthalate	149	15.673	15.668	0.005	99	3214645	40.0	28.6	
152 Benzo[b]fluoranthene	252	16.539	16.528	0.011	94	2296451	40.0	24.5	
153 Benzo[k]fluoranthene	252	16.592	16.581	0.011	95	2502724	40.0	27.3	
154 Benzo[a]pyrene	252	17.196	17.191	0.006	77	2281581	40.0	27.0	
157 Indeno[1,2,3-cd]pyrene	276	19.685	19.675	0.010	90	2454534	40.0	27.7	
158 Dibenz(a,h)anthracene	278	19.717	19.707	0.010	66	2044133	40.0	27.7	
159 Benzo[g,h,i]perylene	276	20.374	20.358	0.016	87	2139980	40.0	28.3	
S 197 Methyl Phenols,Total	108				0		80.0	50.6	
S 199 Total Cresols	108				0		80.0	50.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SVTAPITINTRNi_00007 Amount Added: 1.00 Units: uL Run Reagent

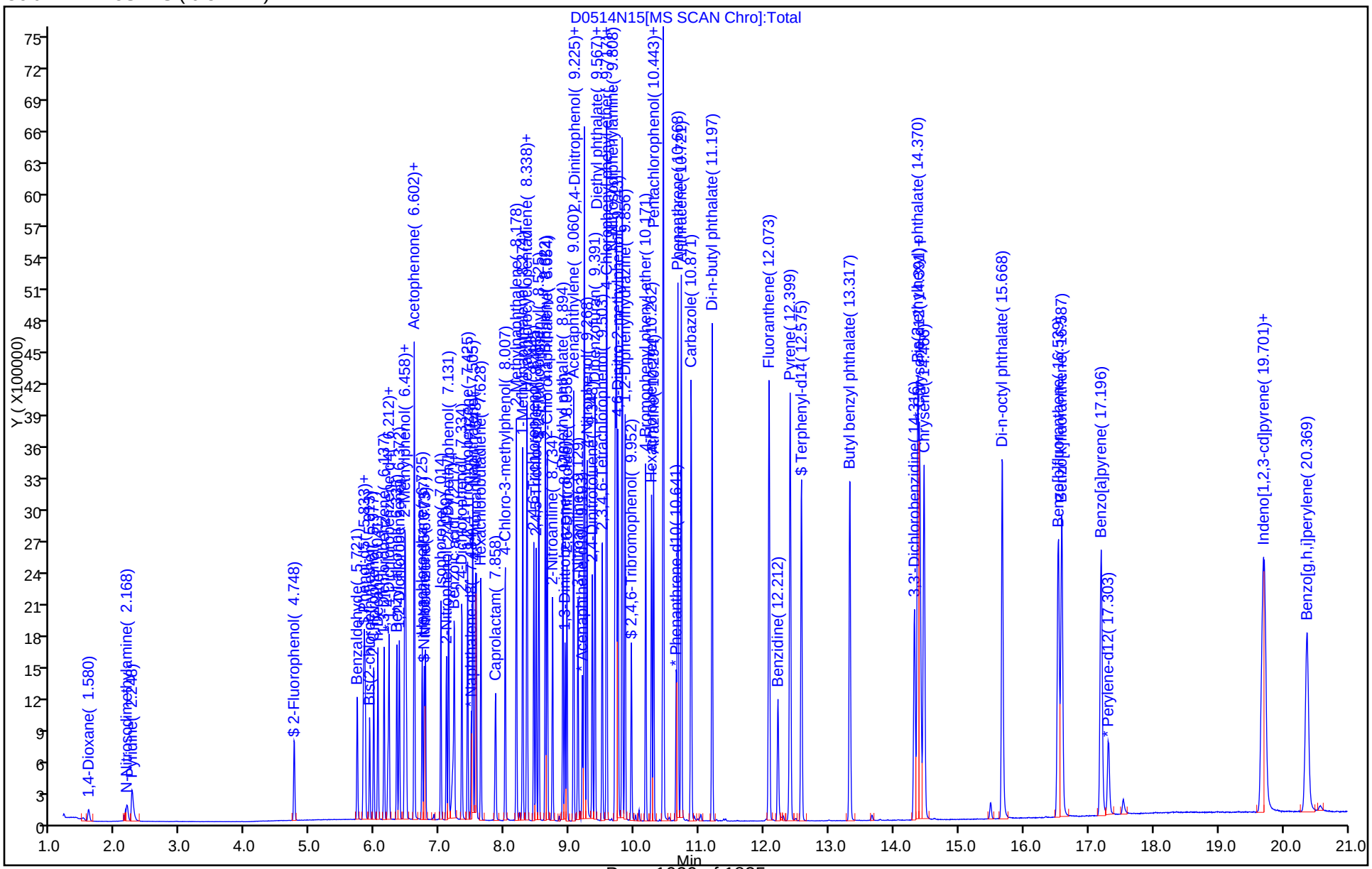
Report Date: 15-May-2015 03:57:05 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CH732\20150514-6915.b\D0514N15.D

Injection Date:	14-May-2015 17:57:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	LCSD 180-140846/3-A			Worklist Smp#:	15
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CH732 Start Date: 02/03/2015 05:37

Analysis Batch Number: 132436 End Date: 02/03/2015 10:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-132436/2		02/03/2015 05:37	1	D0203002.D	Rxi-5SilMS 0.32(mm)
IC 180-132436/3		02/03/2015 05:53	1	D0203003.D	Rxi-5SilMS 0.32(mm)
IC 180-132436/4		02/03/2015 06:20	1	D0203004.D	Rxi-5SilMS 0.32(mm)
IC 180-132436/5		02/03/2015 06:46	1	D0203005.D	Rxi-5SilMS 0.32(mm)
ICIS 180-132436/6		02/03/2015 07:13	1	D0203006.D	Rxi-5SilMS 0.32(mm)
IC 180-132436/7		02/03/2015 07:40	1	D0203007.D	Rxi-5SilMS 0.32(mm)
IC 180-132436/8		02/03/2015 08:07	1	D0203008.D	Rxi-5SilMS 0.32(mm)
IC 180-132436/9		02/03/2015 08:33	1	D0203009.D	Rxi-5SilMS 0.32(mm)
IC 180-132436/10		02/03/2015 09:00	1	D0203010.D	Rxi-5SilMS 0.32(mm)
ICV 180-132436/11		02/03/2015 09:27	1		Rxi-5SilMS 0.32(mm)
ICV 180-132436/12		02/03/2015 09:54	1		Rxi-5SilMS 0.32(mm)
ICV 180-132436/13		02/03/2015 10:21	1		Rxi-5SilMS 0.32(mm)
ICV 180-132436/14		02/03/2015 10:48	1		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CH732 Start Date: 05/12/2015 08:01

Analysis Batch Number: 141231 End Date: 05/12/2015 17:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-141231/2		05/12/2015 08:01	1	D0512002.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-141231/3		05/12/2015 08:16	1	D0512003.D	Rxi-5SilMS 0.32(mm)
MB 180-140746/1-A		05/12/2015 09:06	1	D0512005.D	Rxi-5SilMS 0.32(mm)
LCS 180-140746/2-A		05/12/2015 10:20	1	D0512008.D	Rxi-5SilMS 0.32(mm)
LCSD 180-140746/3-A		05/12/2015 10:46	1	D0512009.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		05/12/2015 13:10	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/12/2015 13:36	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/12/2015 14:03	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/12/2015 14:30	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/12/2015 14:57	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/12/2015 15:23	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/12/2015 15:50	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/12/2015 16:17	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/12/2015 16:44	1		Rxi-5SilMS 0.32(mm)
180-43702-1	RB-01	05/12/2015 17:10	1	D0512024.D	Rxi-5SilMS 0.32(mm)
180-43702-2	FB-01	05/12/2015 17:37	1	D0512025.D	Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CH732 Start Date: 05/14/2015 12:20

Analysis Batch Number: 141553 End Date: 05/15/2015 00:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-141553/2		05/14/2015 12:20	1	D0514N02.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-141553/3		05/14/2015 12:36	1	D0514N03.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 13:29	1		Rxi-5SilMS 0.32(mm)
MB 180-140846/1-A		05/14/2015 14:23	1	D0514N07.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 15:43	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 16:10	1		Rxi-5SilMS 0.32(mm)
LCS 180-140846/2-A		05/14/2015 17:30	1	D0514N14.D	Rxi-5SilMS 0.32(mm)
LCSD 180-140846/3-A		05/14/2015 17:57	1	D0514N15.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 19:16	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 21:03	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 21:29	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 21:56	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 22:22	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 22:49	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 23:16	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/14/2015 23:42	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 00:09	1		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CH732 Start Date: 05/15/2015 13:02

Analysis Batch Number: 141716 End Date: 05/15/2015 22:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-141716/2		05/15/2015 13:02	1	D0515N02.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-141716/3		05/15/2015 13:18	1	D0515N03.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 13:44	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 14:08	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 14:57	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 15:21	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 19:20	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 19:43	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 20:09	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 20:36	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 21:02	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 21:29	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		05/15/2015 21:56	1		Rxi-5SilMS 0.32(mm)
180-43702-3	RB-02	05/15/2015 22:22	1	D0515N25.D	Rxi-5SilMS 0.32(mm)
180-43702-4	FB-02	05/15/2015 22:49	1	D0515N26.D	Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 140746 Batch Start Date: 05/06/15 14:30 Batch Analyst: Trout, Bill

Batch Method: 3520C Batch End Date: 05/08/15 06:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	OPLVISPKMIX1i 00038
MB 180-140746/1		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2 SU	11 SU	
LCS 180-140746/2		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2 SU	11 SU	25 uL
LCSD 180-140746/3		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2 SU	11 SU	25 uL
180-43702-E-1	RB-01	3520C, 8270D LL	T	5 SU	270 mL	0.25 mL	2	11	
180-43702-E-2	FB-01	3520C, 8270D LL	T	5 SU	270 mL	0.25 mL	2	11	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OPQL8270SURi 00029					
MB 180-140746/1		3520C, 8270D LL		25 uL					
LCS 180-140746/2		3520C, 8270D LL		25 uL					
LCSD 180-140746/3		3520C, 8270D LL		25 uL					
180-43702-E-1	RB-01	3520C, 8270D LL	T	25 uL					
180-43702-E-2	FB-01	3520C, 8270D LL	T	25 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 Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 140746 Batch Start Date: 05/06/15 14:30 Batch Analyst: Trout, Bill

Batch Method: 3520C Batch End Date: 05/08/15 06:50

Batch Notes	
Acid used for pH adjustment	1:1 Sulfuric acid
Acid used for pH adjust Lot #	1540016
Person's name who did the concentration	cdm
Time the first extraction ended 24hr	0840
Time the first extraction started 24 hr	1430
N-evap #	1
Na2SO4 Lot Number	1558431
pH Paper Lot Number	Ph paper HC432654
Prep Solvent Lot #	1553462
Prep Solvent Name	Methylene chloride
Prep Solvent Volume Used	100 mL
Person's name who did the prep	BT
Time the second extraction ended 24hr	0650
Time the second extraction started 24hr	1215
Uncorrected N-evap Temperature	26 Celsius
Uncorrected Temperature	75 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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 140846 Batch Start Date: 05/07/15 09:32 Batch Analyst: Trout, Bill

Batch Method: 3520C Batch End Date: 05/09/15 11:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	OPLVISPKMIX1i 00038
MB 180-140846/1		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2 SU	11 SU	
LCS 180-140846/2		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2 SU	11 SU	25 uL
LCSD 180-140846/3		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2 SU	11 SU	25 uL
180-43702-E-3	RB-02	3520C, 8270D LL	T	7 SU	270 mL	0.25 mL	2	11	
180-43702-E-4	FB-02	3520C, 8270D LL	T	7 SU	260 mL	0.25 mL	2	11	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OPQL8270SURi 00029					
MB 180-140846/1		3520C, 8270D LL		25 uL					
LCS 180-140846/2		3520C, 8270D LL		25 uL					
LCSD 180-140846/3		3520C, 8270D LL		25 uL					
180-43702-E-3	RB-02	3520C, 8270D LL	T	25 uL					
180-43702-E-4	FB-02	3520C, 8270D LL	T	25 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 Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 140846 Batch Start Date: 05/07/15 09:32 Batch Analyst: Trout, Bill

Batch Method: 3520C Batch End Date: 05/09/15 11:30

Batch Notes	
Acid used for pH adjustment	1:1 Sulfuric acid
Acid used for pH adjust Lot #	1540016
Base used for pH adjustment	10N sodium hydroxide
Base used for pH adjust Lot #	1539825
Person's name who did the concentration	JM
N-evap #	1
Na2SO4 Lot Number	1558431
pH Paper Lot Number	Ph paper HC432654
Prep Solvent Lot #	1553462
Prep Solvent Name	Methylene chloride
Prep Solvent Volume Used	100 mL
Person's name who did the prep	BT
Uncorrected N-evap Temperature	30 Celsius
Uncorrected Temperature	75 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.

Method 8082A Low Level

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A Low Level

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1	#	TCX2	#	DCB1	#	DCB2	#
RB-01	180-43702-1	77		85		128		131	
FB-01	180-43702-2	104		110		128		143	X
RB-02	180-43702-3	97		100		130		122	
FB-02	180-43702-4	90		88		100		103	
	MB 180-140615/1-A	97		108		109		125	
	MB 180-140781/1-A	98		93		86		89	
	LCS 180-140615/4-A	109		113		134		134	
	LCS 180-140781/2-A	102		97		90		93	
	LCSD 180-140615/5-A	104		109		110		140	X
	LCSD 180-140781/3-A	98		92		87		88	

	QC LIMITS
TCX = Tetrachloro-m-xylene (Surr)	34-137
DCB = DCB Decachlorobiphenyl (Surr)	43-138

Column to be used to flag recovery values

FORM II 8082A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S0506014.D

Lab ID: LCS 180-140615/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	1.00	1.07	107	55-120	
PCB-1260	1.00	1.07	107	55-120	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S0506124.D

Lab ID: LCS 180-140781/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	1.00	0.840	84	55-120	
PCB-1260	1.00	0.844	84	55-120	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S0506015.D

Lab ID: LCSD 180-140615/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	1.00	1.05	105	2	25	55-120	
PCB-1260	1.00	1.09	109	2	25	55-120	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S0506125.D

Lab ID: LCSD 180-140781/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	1.00	0.831	83	1	25	55-120	
PCB-1260	1.00	0.833	83	1	25	55-120	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: MB 180-140615/1-A

Matrix: Water Date Extracted: 05/05/2015 11:45

Lab File ID:(1) S0506007.D Lab File ID:(2) S0506007.D

Date Analyzed:(1) 05/06/2015 08:22 Date Analyzed:(2) 05/06/2015 08:22

Instrument ID:(1) CHGC10 Instrument ID:(2) CHGC10

GC Column:(1) RTX-CLP1 ID: 0.53(mm) GC Column:(2) RTX-CLP2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
RB-01	180-43702-1	05/06/2015 08:59	05/06/2015 08:59
FB-01	180-43702-2	05/06/2015 09:18	05/06/2015 09:18
RB-02	180-43702-3	05/06/2015 09:56	05/06/2015 09:56
	LCS 180-140615/4-A	05/06/2015 10:33	05/06/2015 10:33
	LCSD 180-140615/5-A	05/06/2015 10:52	05/06/2015 10:52

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: MB 180-140781/1-A

Matrix: Water Date Extracted: 05/06/2015 12:40

Lab File ID:(1) S0506122.D Lab File ID:(2) S0506122.D

Date Analyzed:(1) 05/07/2015 05:41 Date Analyzed:(2) 05/07/2015 05:41

Instrument ID:(1) CHGC10 Instrument ID:(2) CHGC10

GC Column:(1) RTX-CLP1 ID: 0.53(mm) GC Column:(2) RTX-CLP2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
FB-02	180-43702-4	05/07/2015 06:00	05/07/2015 06:00
	LCS 180-140781/2-A	05/07/2015 06:19	05/07/2015 06:19
	LCSD 180-140781/3-A	05/07/2015 06:37	05/07/2015 06:37

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVRT 180-140663/1 Date Analyzed: 05/06/2015 06:29

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm)

Lab File ID (Standard): S0506001.D Heated Purge: (Y/N) N

Calibration ID: 23632

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.17	11.28	
UPPER LIMIT				3.22	11.33	
LOWER LIMIT				3.12	11.23	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 180-140663/1		05/06/2015 06:29	S0506001.D	3.17	11.28	
MB 180-140615/1-A		05/06/2015 08:22	S0506007.D	3.18	11.29	
180-43702-1	RB-01	05/06/2015 08:59	S0506009.D	3.17	11.29	
180-43702-2	FB-01	05/06/2015 09:18	S0506010.D	3.18	11.28	
180-43702-3	RB-02	05/06/2015 09:56	S0506012.D	3.18	11.29	
LCS 180-140615/4-A		05/06/2015 10:33	S0506014.D	3.18	11.29	
LCSD 180-140615/5-A		05/06/2015 10:52	S0506015.D	3.18	11.29	
CCV 180-140663/16		05/06/2015 11:11	S0506016.D	3.18	11.29	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: CCVRT 180-140663/1 Date Analyzed: 05/06/2015 06:29

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm)

Lab File ID (Standard): S0506001.D Heated Purge: (Y/N) N

Calibration ID: 23633

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.65	12.80	
UPPER LIMIT				3.70	12.85	
LOWER LIMIT				3.60	12.75	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 180-140663/1		05/06/2015 06:29	S0506001.D	3.65	12.80	
MB 180-140615/1-A		05/06/2015 08:22	S0506007.D	3.65	12.80	
180-43702-1	RB-01	05/06/2015 08:59	S0506009.D	3.65	12.80	
180-43702-2	FB-01	05/06/2015 09:18	S0506010.D	3.65	12.80	
180-43702-3	RB-02	05/06/2015 09:56	S0506012.D	3.65	12.80	
LCS 180-140615/4-A		05/06/2015 10:33	S0506014.D	3.65	12.80	
LCSD 180-140615/5-A		05/06/2015 10:52	S0506015.D	3.65	12.80	
CCV 180-140663/16		05/06/2015 11:11	S0506016.D	3.65	12.80	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: ICRT 180-140736/12 Date Analyzed: 05/06/2015 15:37

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm)

Lab File ID (Standard): S0506112.D Heated Purge: (Y/N) N

Calibration ID: 23731

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				3.18	11.29	
UPPER LIMIT				3.23	11.34	
LOWER LIMIT				3.13	11.24	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 180-140736/12		05/06/2015 15:37	S0506112.D	3.18	11.29	
CCV 180-140736/21		05/07/2015 05:22	S0506121.D	3.17	11.29	
MB 180-140781/1-A		05/07/2015 05:41	S0506122.D	3.17	11.29	
180-43702-4	FB-02	05/07/2015 06:00	S0506123.D	3.17	11.29	
LCS 180-140781/2-A		05/07/2015 06:19	S0506124.D	3.18	11.29	
LCSD 180-140781/3-A		05/07/2015 06:37	S0506125.D	3.18	11.29	
CCV 180-140736/30		05/07/2015 08:11	S0506130.D	3.18	11.29	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Sample No.: ICRT 180-140736/12 Date Analyzed: 05/06/2015 15:37

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm)

Lab File ID (Standard): S0506112.D Heated Purge: (Y/N) N

Calibration ID: 23732

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				3.65	12.80	
UPPER LIMIT				3.70	12.85	
LOWER LIMIT				3.60	12.75	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 180-140736/12		05/06/2015 15:37	S0506112.D	3.65	12.80	
CCV 180-140736/21		05/07/2015 05:22	S0506121.D	3.64	12.80	
MB 180-140781/1-A		05/07/2015 05:41	S0506122.D	3.65	12.80	
180-43702-4	FB-02	05/07/2015 06:00	S0506123.D	3.65	12.80	
LCS 180-140781/2-A		05/07/2015 06:19	S0506124.D	3.65	12.80	
LCSD 180-140781/3-A		05/07/2015 06:37	S0506125.D	3.65	12.80	
CCV 180-140736/30		05/07/2015 08:11	S0506130.D	3.65	12.80	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-140615/4-A

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/06/2015 10:33 Date Analyzed (2): 05/06/2015 10:33

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.49	3.43	3.53	0.984	0.977	8.8
		2	3.82	3.77	3.87	0.969		
		3	4.31	4.25	4.35	0.960		
		4	4.46	4.40	4.50	1.05		
		5	4.95	4.90	5.00	0.925		
	2	1	4.18	4.12	4.22	1.06	1.07	
		2	4.67	4.61	4.71	1.02		
		3	5.30	5.25	5.35	1.11		
		4	5.50	5.44	5.54	1.06		
		5	6.24	6.19	6.29	1.07		
PCB-1260	1	1	6.79	6.74	6.84	0.940	0.994	7.1
		2	7.29	7.24	7.34	0.965		
		3	8.55	8.50	8.60	1.01		
		4	9.12	9.07	9.17	1.03		
		5	9.60	9.55	9.65	1.03		
	2	1	8.66	8.61	8.71	1.06	1.07	
		2	9.05	9.00	9.10	1.06		
		3	10.31	10.25	10.35	1.04		
		4	10.69	10.64	10.74	1.13		
		5	11.23	11.18	11.28	1.06		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 180-140615/5-A

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/06/2015 10:52 Date Analyzed (2): 05/06/2015 10:52

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.49	3.43	3.53	0.928	0.921	12.7
		2	3.82	3.77	3.87	0.883		
		3	4.31	4.25	4.35	0.938		
		4	4.46	4.40	4.50	0.931		
		5	4.95	4.90	5.00	0.924		
	2	1	4.18	4.12	4.22	1.04	1.05	
		2	4.67	4.61	4.71	1.03		
		3	5.30	5.25	5.35	1.08		
		4	5.50	5.44	5.54	1.03		
		5	6.24	6.19	6.29	1.04		
PCB-1260	1	1	6.79	6.74	6.84	0.921	0.975	11.4
		2	7.29	7.24	7.34	0.950		
		3	8.55	8.50	8.60	0.973		
		4	9.12	9.07	9.17	1.01		
		5	9.60	9.55	9.65	1.03		
	2	1	8.66	8.61	8.71	1.03	1.09	
		2	9.05	9.00	9.10	1.07		
		3	10.31	10.25	10.35	1.08		
		4	10.69	10.64	10.74	1.13		
		5	11.23	11.18	11.28	1.16		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-140781/2-A

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/07/2015 06:19 Date Analyzed (2): 05/07/2015 06:19

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.49	3.43	3.53	0.818	0.840	1.0
		2	3.82	3.77	3.87	0.820		
		3	4.31	4.26	4.36	0.853		
		4	4.46	4.41	4.51	0.842		
		5	4.95	4.90	5.00	0.869		
	2	1	4.18	4.12	4.22	0.831	0.849	
		2	4.67	4.61	4.71	0.838		
		3	5.30	5.24	5.34	0.865		
		4	5.50	5.44	5.54	0.835		
		5	6.24	6.19	6.29	0.874		
PCB-1260	1	1	6.79	6.75	6.85	0.849	0.844	2.1
		2	7.29	7.25	7.35	0.848		
		3	8.55	8.51	8.61	0.847		
		4	9.12	9.08	9.18	0.833		
		5	9.60	9.56	9.66	0.843		
	2	1	8.66	8.61	8.71	0.856	0.827	
		2	9.05	9.00	9.10	0.814		
		3	10.31	10.25	10.35	0.839		
		4	10.69	10.64	10.74	0.809		
		5	11.23	11.18	11.28	0.817		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 180-140781/3-A

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/07/2015 06:37 Date Analyzed (2): 05/07/2015 06:37

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.49	3.43	3.53	0.815	0.831	0.8
		2	3.82	3.77	3.87	0.805		
		3	4.31	4.26	4.36	0.842		
		4	4.46	4.41	4.51	0.829		
		5	4.95	4.90	5.00	0.866		
	2	1	4.18	4.12	4.22	0.817	0.838	
		2	4.67	4.61	4.71	0.830		
		3	5.30	5.24	5.34	0.854		
		4	5.50	5.44	5.54	0.828		
		5	6.24	6.19	6.29	0.860		
PCB-1260	1	1	6.79	6.75	6.85	0.832	0.833	2.2
		2	7.29	7.25	7.35	0.833		
		3	8.55	8.51	8.61	0.836		
		4	9.12	9.08	9.18	0.830		
		5	9.60	9.56	9.66	0.835		
	2	1	8.66	8.61	8.71	0.834	0.815	
		2	9.05	9.00	9.10	0.810		
		3	10.31	10.25	10.35	0.826		
		4	10.69	10.64	10.74	0.798		
		5	11.23	11.18	11.28	0.807		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-01 | Lab Sample ID: 180-43702-1

Matrix: Water | Lab File ID: S0506009.D

Analysis Method: 8082A | Date Collected: 04/30/2015 17:30

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1060(mL) | Date Analyzed: 05/06/2015 08:59

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.0094	0.0024
11104-28-2	PCB-1221	ND		0.0094	0.0039
11141-16-5	PCB-1232	ND		0.0094	0.0037
53469-21-9	PCB-1242	ND		0.0094	0.0018
12672-29-6	PCB-1248	ND		0.0094	0.0025
11097-69-1	PCB-1254	ND		0.0094	0.0028
11096-82-5	PCB-1260	ND		0.0094	0.0016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	128		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	77		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506009.D
Lims ID: 180-43702-C-1-A Lab Sample ID: 180-43702-1
Client ID: RB-01
Sample Type: Client
Inject. Date: 06-May-2015 08:59:51 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-009
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 06-May-2015 10:16:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene						
1	3.174	3.173	0.001	15741423	H 0.0153	
2	3.648	3.647	0.001	13378522	H 0.0170	
					RPD = 10.58	
4 PCB-1232						
1		3.315			ND	
1		3.483				
1		3.816				
1		4.305				
1		4.455				
2		3.940				
2		4.171				
2		4.664				
2		5.295				
2		5.493				
1 PCB-1221						
1		3.315			ND	
1		3.484				
1		2.743				
2		3.187				
2		3.942				
2		4.173				

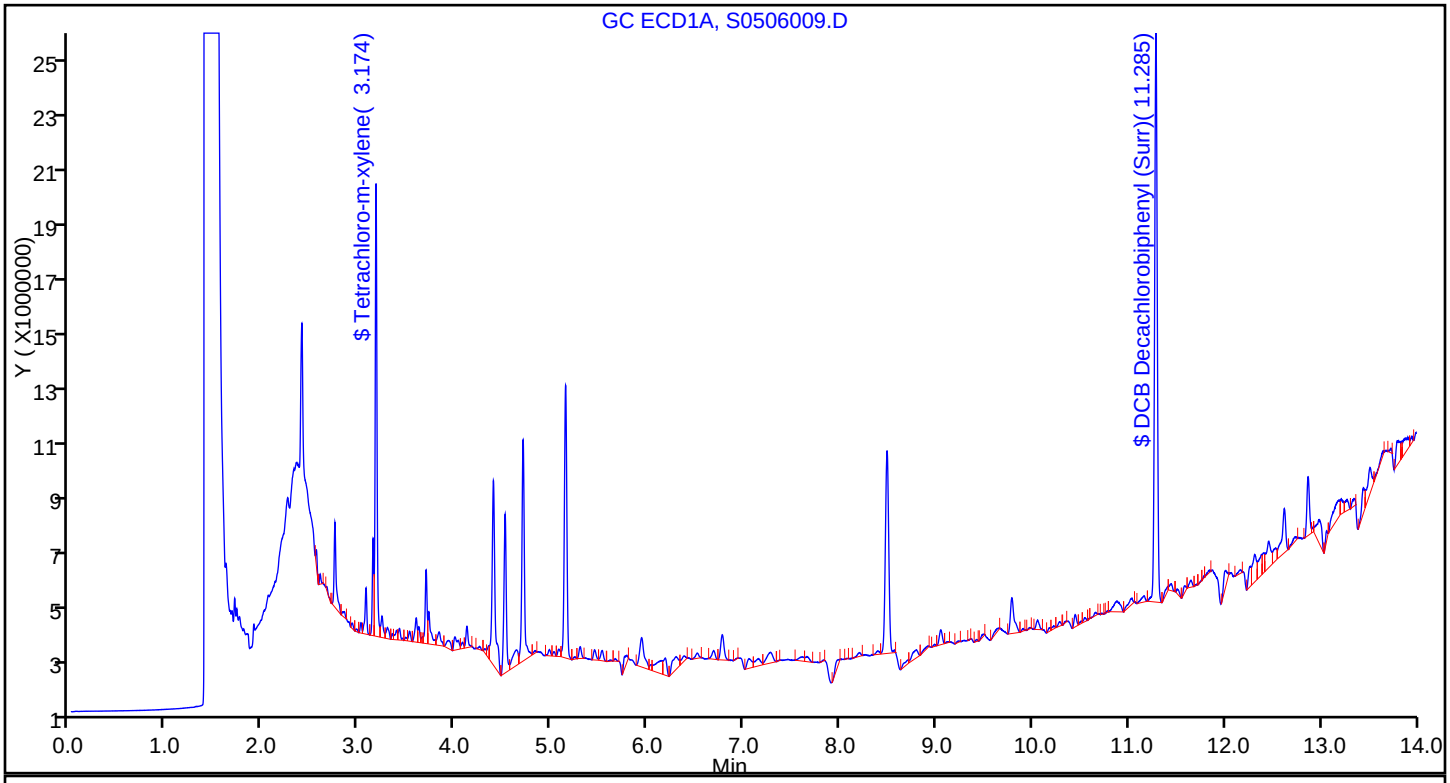
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
3 PCB-1016						
1		3.483			ND	
1		3.815				
1		4.303				
1		4.453				
1		4.948				
2		4.171				
2		4.663				
2		5.295				
2		5.493				
2		6.236				
5 PCB-1242						
1		3.815			ND	
1		4.304				
1		4.454				
1		4.948				
1		5.522				
2		4.171				
2		4.663				
2		5.295				
2		6.236				
2		6.986				
6 PCB-1248						
1		3.815			ND	
1		4.305				
1		4.949				
1		5.524				
1		5.564				
2		4.664				
2		5.793				
2		6.237				
2		6.986				
2		7.420				
7 PCB-1254						
1		5.464			ND	
1		5.847				
1		6.481				
1		7.294				
1		7.840				
2		6.980				
2		7.332				
2		8.278				
2		9.351				
2		9.677				

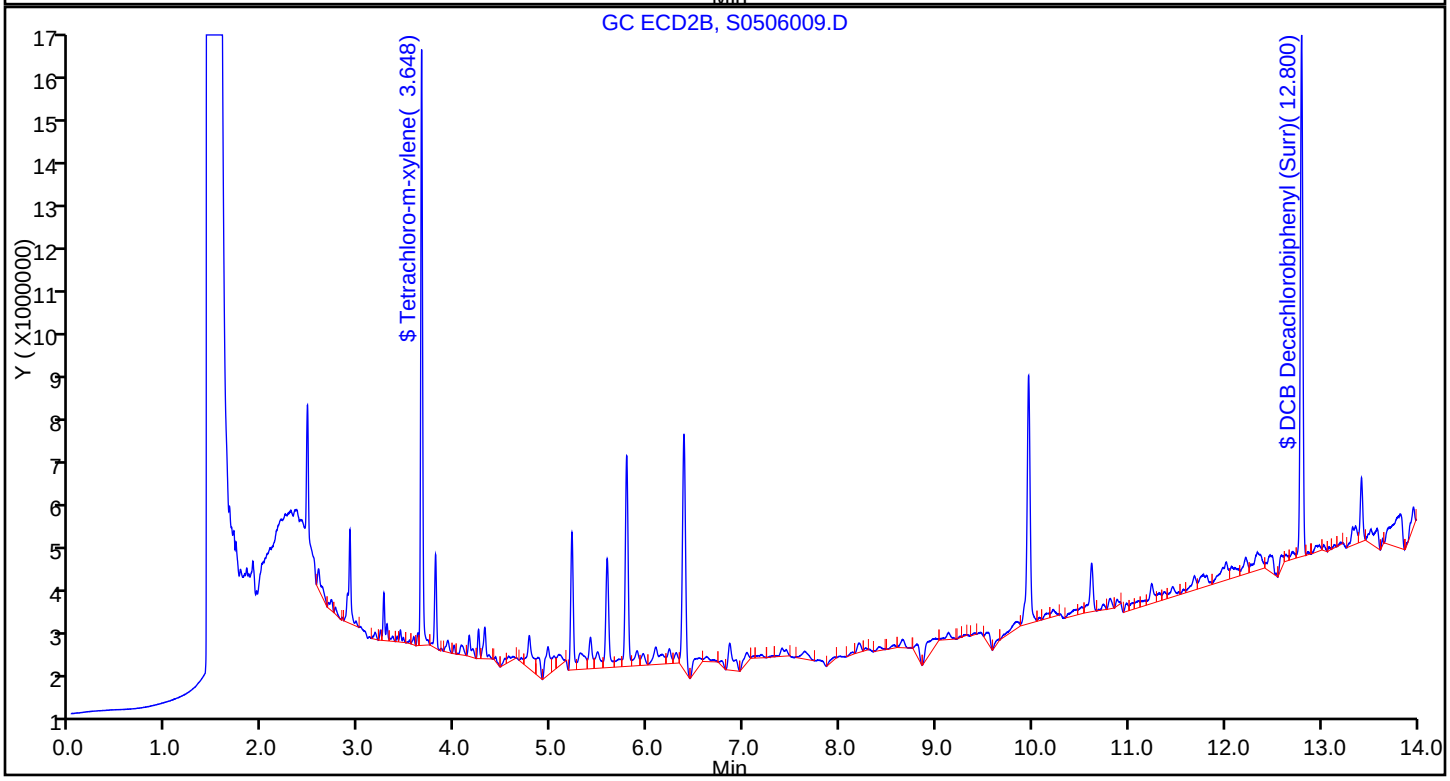
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
9 PCB-1262						
1		6.789			ND	
1		7.290				
1		8.546				
1		9.120				
1		9.600				
2		9.045				
2		9.826				
2		10.690				
2		11.223				
2		12.030				
8 PCB-1260						
1		6.788			ND	
1		7.289				
1		8.546				
1		9.119				
1		9.599				
2		8.655				
2		9.046				
2		10.303				
2		10.690				
2		11.228				
10 PCB-1268						
1		9.666			ND	
1		10.041				
1		10.593				
1		11.014				
2		11.219				
2		11.285				
2		11.643				
2		12.465				
$ 11 DCB Decachlorobiphenyl (Surr)						
1	11.285	11.282	0.003	19784201	H 0.0256	
2	12.800	12.797	0.003	11711623	H 0.0261	
					RPD = 1.91	
41 1260 Res 2						
1		0.000			ND	
2		0.000				
42 1260 Res 3						
1		0.000			ND	
2		0.000				
43 1260 Res 1						
1		0.000			ND	
2		0.000				
44 1-Bromo-2-nitrobenzene						
1		0.000			ND	
2		0.000				

Report Date: 06-May-2015 11:42:37 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506009.D				
Injection Date:	06-May-2015 08:59:51	Instrument ID:	CHGC10		
Lims ID:	180-43702-C-1-A	Lab Sample ID:	180-43702-1		
Client ID:	RB-01				
Operator ID:	402331	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-01 | Lab Sample ID: 180-43702-1

Matrix: Water | Lab File ID: S0506009.D

Analysis Method: 8082A | Date Collected: 04/30/2015 17:30

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1060(mL) | Date Analyzed: 05/06/2015 08:59

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	131		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	85		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506009.D
Lims ID: 180-43702-C-1-A Lab Sample ID: 180-43702-1
Client ID: RB-01
Sample Type: Client
Inject. Date: 06-May-2015 08:59:51 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-009
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 06-May-2015 10:16:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene						
1	3.174	3.173	0.001	15741423	H 0.0153	
2	3.648	3.647	0.001	13378522	H 0.0170	
					RPD = 10.58	
4 PCB-1232						
1		3.315			ND	
1		3.483				
1		3.816				
1		4.305				
1		4.455				
2		3.940				
2		4.171				
2		4.664				
2		5.295				
2		5.493				
1 PCB-1221						
1		3.315			ND	
1		3.484				
1		2.743				
2		3.187				
2		3.942				
2		4.173				

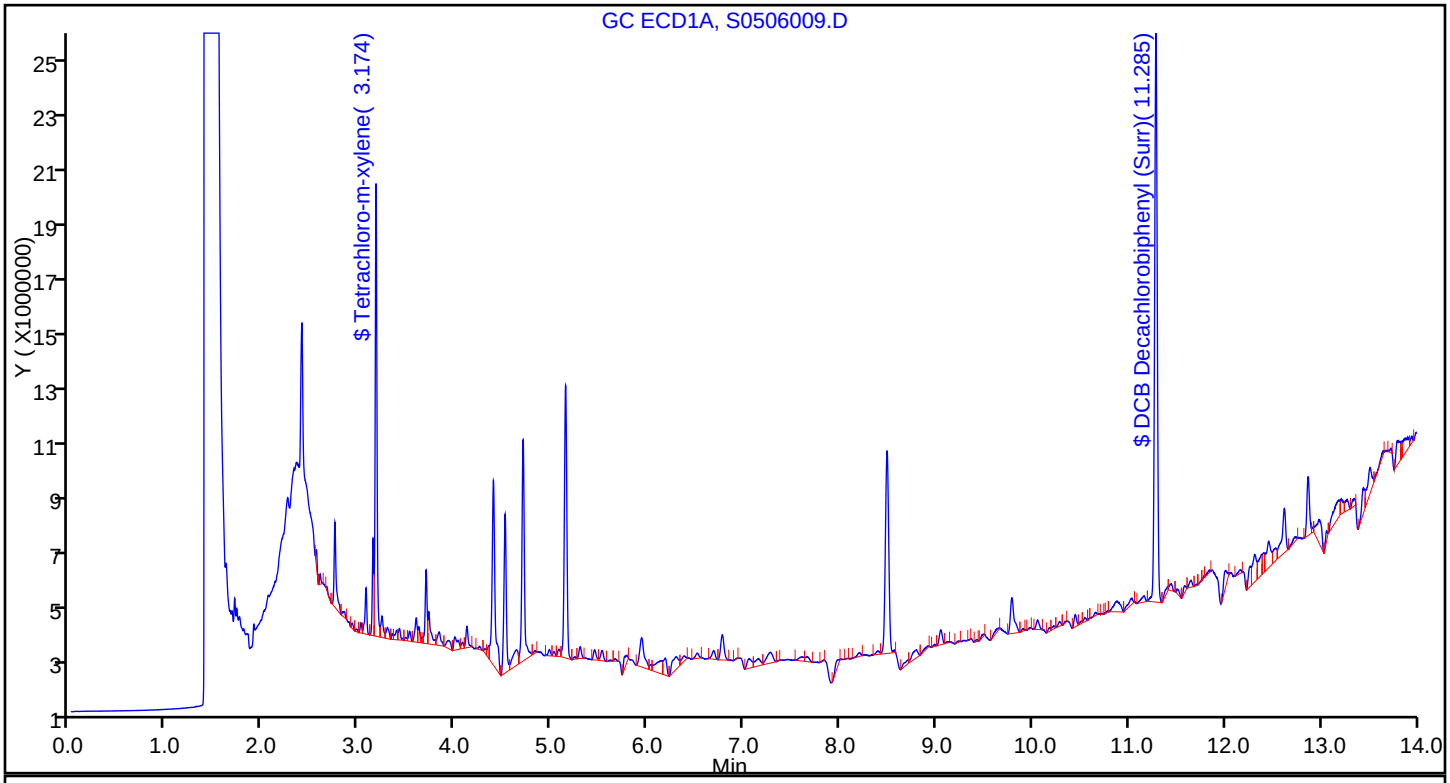
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
3 PCB-1016						
1		3.483			ND	
1		3.815				
1		4.303				
1		4.453				
1		4.948				
2		4.171				
2		4.663				
2		5.295				
2		5.493				
2		6.236				
5 PCB-1242						
1		3.815			ND	
1		4.304				
1		4.454				
1		4.948				
1		5.522				
2		4.171				
2		4.663				
2		5.295				
2		6.236				
2		6.986				
6 PCB-1248						
1		3.815			ND	
1		4.305				
1		4.949				
1		5.524				
1		5.564				
2		4.664				
2		5.793				
2		6.237				
2		6.986				
2		7.420				
7 PCB-1254						
1		5.464			ND	
1		5.847				
1		6.481				
1		7.294				
1		7.840				
2		6.980				
2		7.332				
2		8.278				
2		9.351				
2		9.677				

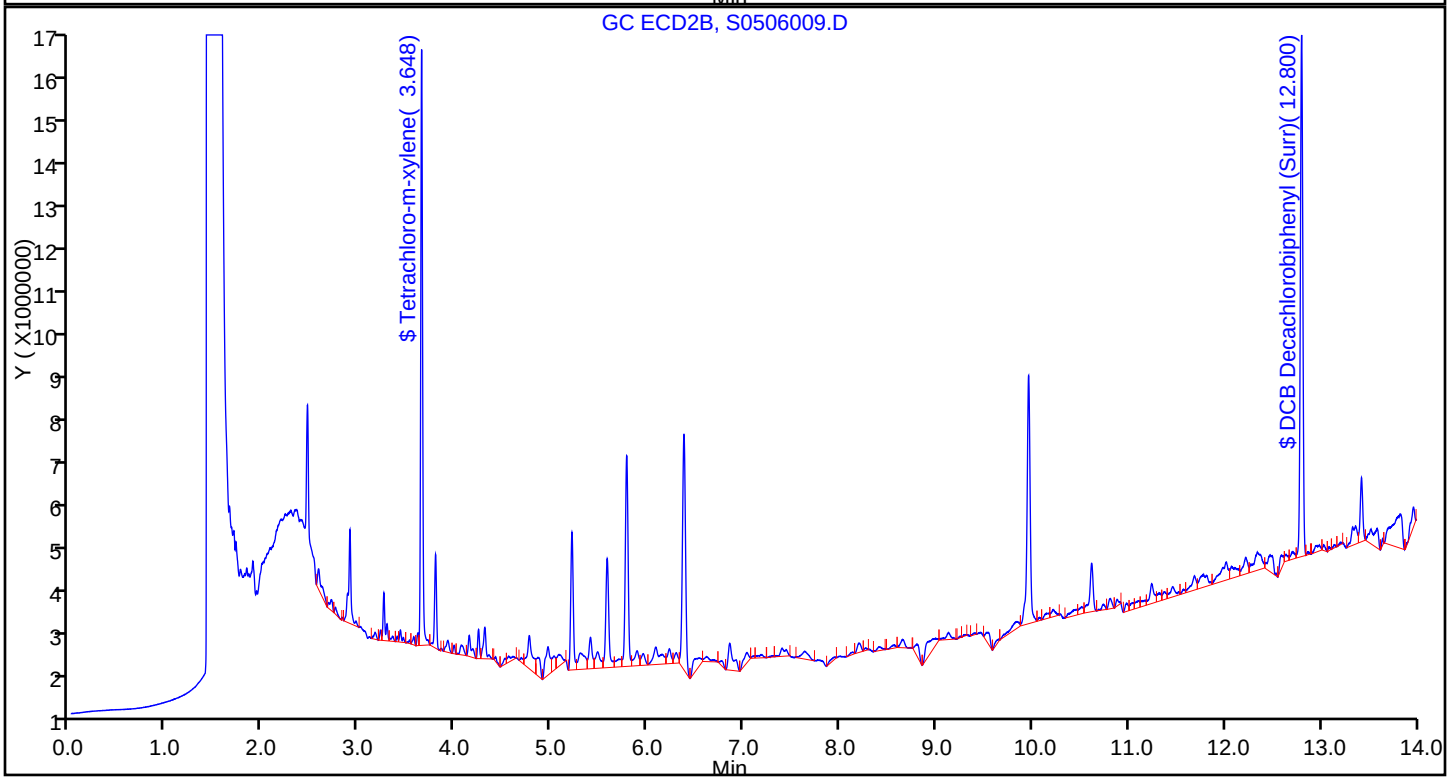
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
9 PCB-1262						
1		6.789			ND	
1		7.290				
1		8.546				
1		9.120				
1		9.600				
2		9.045				
2		9.826				
2		10.690				
2		11.223				
2		12.030				
8 PCB-1260						
1		6.788			ND	
1		7.289				
1		8.546				
1		9.119				
1		9.599				
2		8.655				
2		9.046				
2		10.303				
2		10.690				
2		11.228				
10 PCB-1268						
1		9.666			ND	
1		10.041				
1		10.593				
1		11.014				
2		11.219				
2		11.285				
2		11.643				
2		12.465				
$ 11 DCB Decachlorobiphenyl (Surr)						
1	11.285	11.282	0.003	19784201	H 0.0256	
2	12.800	12.797	0.003	11711623	H 0.0261	
					RPD = 1.91	
41 1260 Res 2						
1		0.000			ND	
2		0.000				
42 1260 Res 3						
1		0.000			ND	
2		0.000				
43 1260 Res 1						
1		0.000			ND	
2		0.000				
44 1-Bromo-2-nitrobenzene						
1		0.000			ND	
2		0.000				

Report Date: 06-May-2015 11:42:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506009.D				
Injection Date:	06-May-2015 08:59:51	Instrument ID:	CHGC10		
Lims ID:	180-43702-C-1-A	Lab Sample ID:	180-43702-1		
Client ID:	RB-01				
Operator ID:	402331	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-01 | Lab Sample ID: 180-43702-2

Matrix: Water | Lab File ID: S0506010.D

Analysis Method: 8082A | Date Collected: 04/30/2015 17:45

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1050(mL) | Date Analyzed: 05/06/2015 09:18

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.0095	0.0024
11104-28-2	PCB-1221	ND		0.0095	0.0039
11141-16-5	PCB-1232	ND		0.0095	0.0037
53469-21-9	PCB-1242	ND		0.0095	0.0018
12672-29-6	PCB-1248	ND		0.0095	0.0026
11097-69-1	PCB-1254	ND		0.0095	0.0029
11096-82-5	PCB-1260	ND		0.0095	0.0016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	128		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	104		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506010.D
Lims ID: 180-43702-C-2-A Lab Sample ID: 180-43702-2
Client ID: FB-01
Sample Type: Client
Inject. Date: 06-May-2015 09:18:36 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-010
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 06-May-2015 10:16:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene						
1	3.175	3.173	0.002	21410647	H 0.0208	
2	3.649	3.647	0.002	17273436	H 0.0220	
					RPD = 5.39	
4 PCB-1232						
1		3.315			ND	
1		3.483				
1		3.816				
1		4.305				
1		4.455				
2		3.940				
2		4.171				
2		4.664				
2		5.295				
2		5.493				
1 PCB-1221						
1		3.315			ND	
1		3.484				
1		2.743				
2		3.187				
2		3.942				
2		4.173				

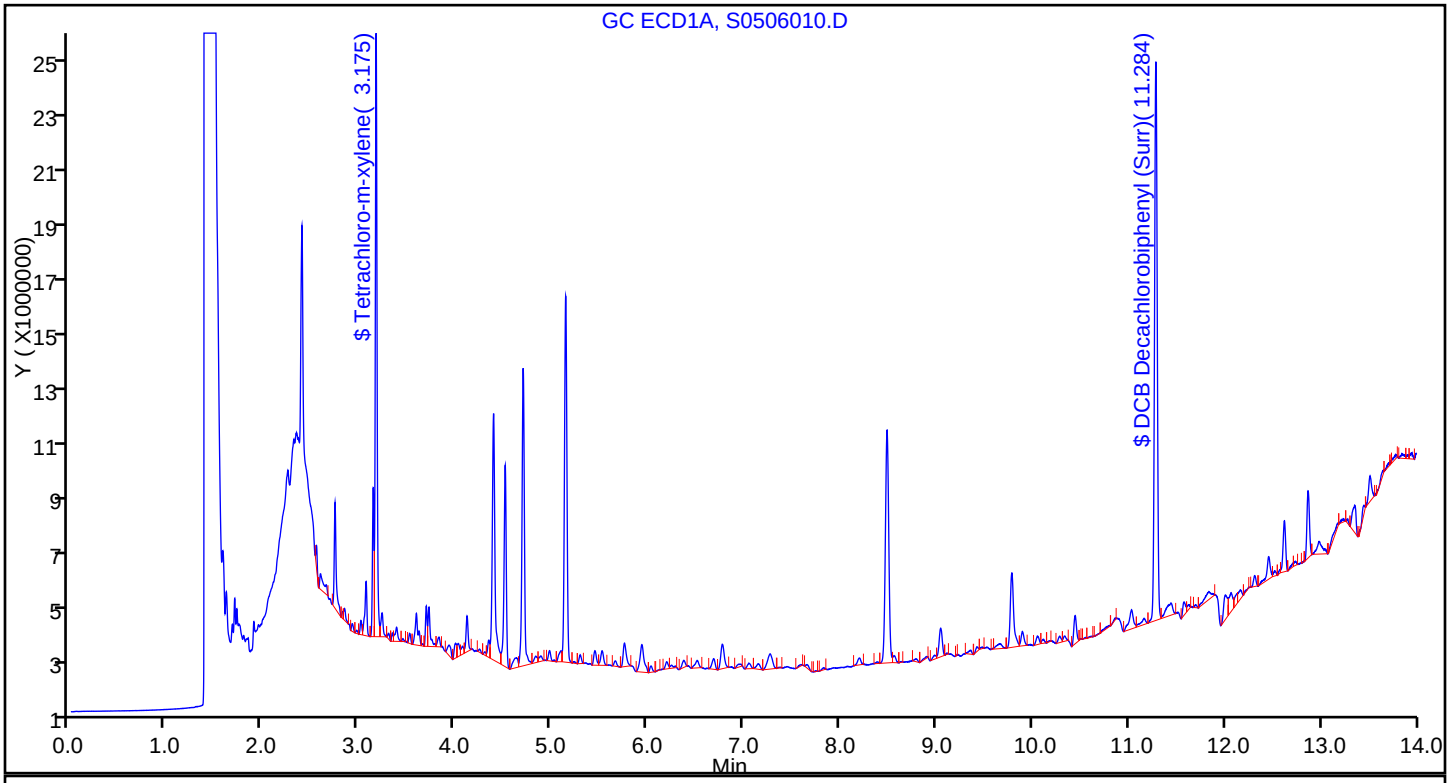
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
3 PCB-1016						
1		3.483			ND	
1		3.815				
1		4.303				
1		4.453				
1		4.948				
2		4.171				
2		4.663				
2		5.295				
2		5.493				
2		6.236				
5 PCB-1242						
1		3.815			ND	
1		4.304				
1		4.454				
1		4.948				
1		5.522				
2		4.171				
2		4.663				
2		5.295				
2		6.236				
2		6.986				
6 PCB-1248						
1		3.815			ND	
1		4.305				
1		4.949				
1		5.524				
1		5.564				
2		4.664				
2		5.793				
2		6.237				
2		6.986				
2		7.420				
7 PCB-1254						
1		5.464			ND	
1		5.847				
1		6.481				
1		7.294				
1		7.840				
2		6.980				
2		7.332				
2		8.278				
2		9.351				
2		9.677				

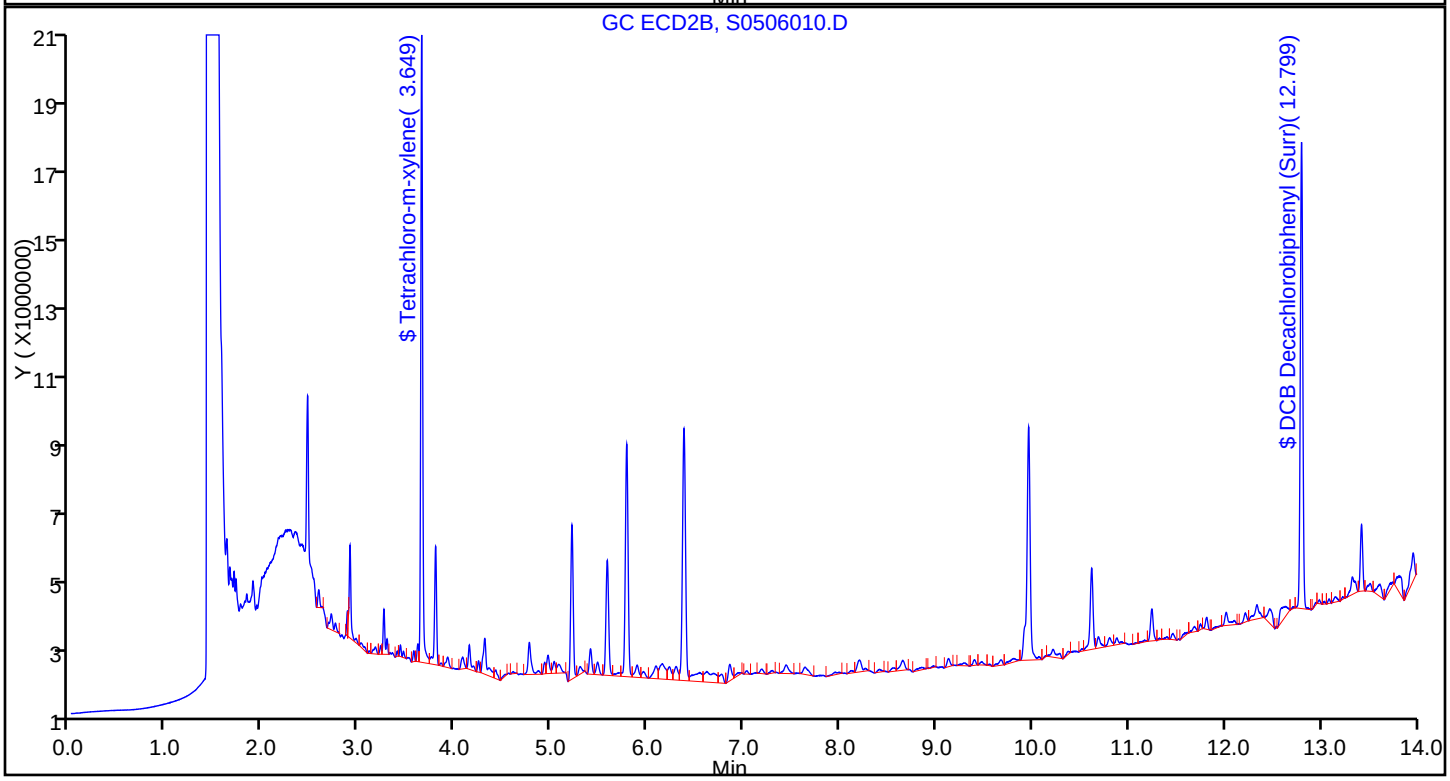
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
9 PCB-1262						
1		6.789			ND	
1		7.290				
1		8.546				
1		9.120				
1		9.600				
2		9.045				
2		9.826				
2		10.690				
2		11.223				
2		12.030				
8 PCB-1260						
1		6.788			ND	
1		7.289				
1		8.546				
1		9.119				
1		9.599				
2		8.655				
2		9.046				
2		10.303				
2		10.690				
2		11.228				
10 PCB-1268						
1		9.666			ND	
1		10.041				
1		10.593				
1		11.014				
2		11.219				
2		11.285				
2		11.643				
2		12.465				
$ 11 DCB Decachlorobiphenyl (Surr)						
1	11.284	11.282	0.002	19820979H	0.0257	
2	12.799	12.797	0.002	12839365H	0.0286	
					RPD = 10.91	
41 1260 Res 2						
1		0.000			ND	
2		0.000				
42 1260 Res 3						
1		0.000			ND	
2		0.000				
43 1260 Res 1						
1		0.000			ND	
2		0.000				
44 1-Bromo-2-nitrobenzene						
1		0.000			ND	
2		0.000				

Report Date: 06-May-2015 11:42:35 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506010.D				
Injection Date:	06-May-2015 09:18:36	Instrument ID:	CHGC10		
Lims ID:	180-43702-C-2-A	Lab Sample ID:	180-43702-2		
Client ID:	FB-01				
Operator ID:	402331	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-01 | Lab Sample ID: 180-43702-2

Matrix: Water | Lab File ID: S0506010.D

Analysis Method: 8082A | Date Collected: 04/30/2015 17:45

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1050(mL) | Date Analyzed: 05/06/2015 09:18

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	143	X	43-138
877-09-8	Tetrachloro-m-xylene (Surr)	110		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506010.D
Lims ID: 180-43702-C-2-A Lab Sample ID: 180-43702-2
Client ID: FB-01
Sample Type: Client
Inject. Date: 06-May-2015 09:18:36 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-010
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 06-May-2015 10:16:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene						
1	3.175	3.173	0.002	21410647	H 0.0208	
2	3.649	3.647	0.002	17273436	H 0.0220	
					RPD = 5.39	
4 PCB-1232						
1		3.315			ND	
1		3.483				
1		3.816				
1		4.305				
1		4.455				
2		3.940				
2		4.171				
2		4.664				
2		5.295				
2		5.493				
1 PCB-1221						
1		3.315			ND	
1		3.484				
1		2.743				
2		3.187				
2		3.942				
2		4.173				

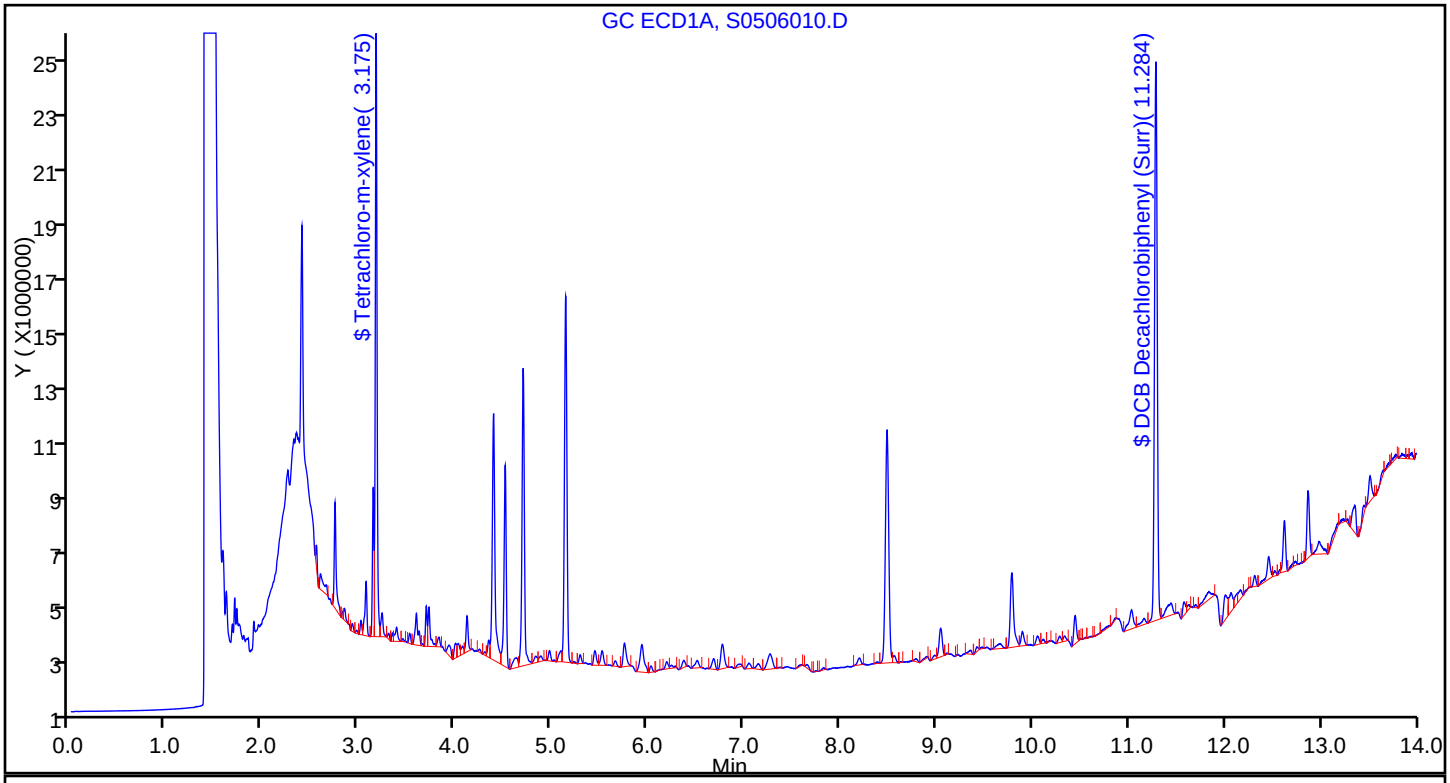
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
3 PCB-1016						
1		3.483			ND	
1		3.815				
1		4.303				
1		4.453				
1		4.948				
2		4.171				
2		4.663				
2		5.295				
2		5.493				
2		6.236				
5 PCB-1242						
1		3.815			ND	
1		4.304				
1		4.454				
1		4.948				
1		5.522				
2		4.171				
2		4.663				
2		5.295				
2		6.236				
2		6.986				
6 PCB-1248						
1		3.815			ND	
1		4.305				
1		4.949				
1		5.524				
1		5.564				
2		4.664				
2		5.793				
2		6.237				
2		6.986				
2		7.420				
7 PCB-1254						
1		5.464			ND	
1		5.847				
1		6.481				
1		7.294				
1		7.840				
2		6.980				
2		7.332				
2		8.278				
2		9.351				
2		9.677				

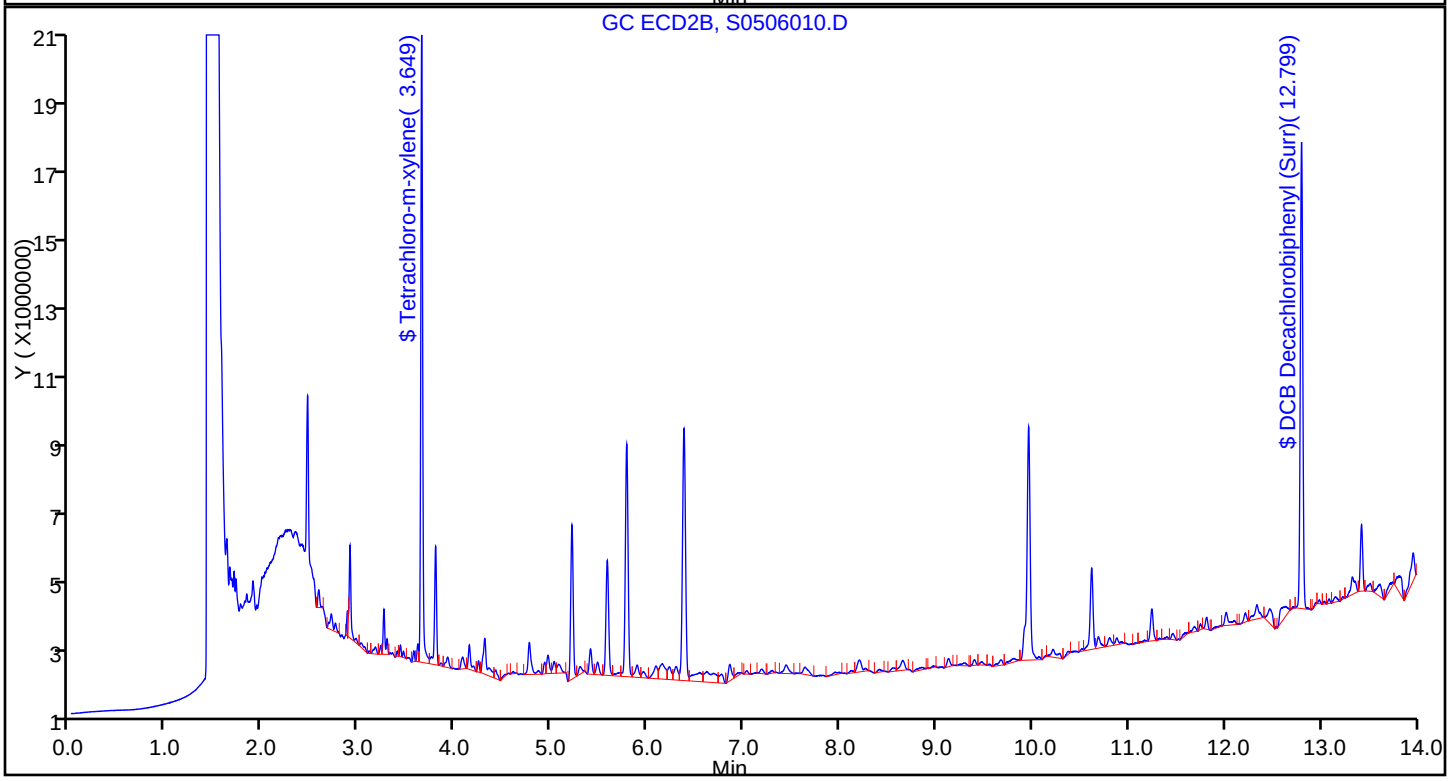
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
9 PCB-1262						
1		6.789			ND	
1		7.290				
1		8.546				
1		9.120				
1		9.600				
2		9.045				
2		9.826				
2		10.690				
2		11.223				
2		12.030				
8 PCB-1260						
1		6.788			ND	
1		7.289				
1		8.546				
1		9.119				
1		9.599				
2		8.655				
2		9.046				
2		10.303				
2		10.690				
2		11.228				
10 PCB-1268						
1		9.666			ND	
1		10.041				
1		10.593				
1		11.014				
2		11.219				
2		11.285				
2		11.643				
2		12.465				
$ 11 DCB Decachlorobiphenyl (Surr)						
1	11.284	11.282	0.002	19820979H	0.0257	
2	12.799	12.797	0.002	12839365H	0.0286	
					RPD = 10.91	
41 1260 Res 2						
1		0.000			ND	
2		0.000				
42 1260 Res 3						
1		0.000			ND	
2		0.000				
43 1260 Res 1						
1		0.000			ND	
2		0.000				
44 1-Bromo-2-nitrobenzene						
1		0.000			ND	
2		0.000				

Report Date: 06-May-2015 11:42:36 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506010.D				
Injection Date:	06-May-2015 09:18:36	Instrument ID:	CHGC10		
Lims ID:	180-43702-C-2-A	Lab Sample ID:	180-43702-2		
Client ID:	FB-01				
Operator ID:	402331	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-02 | Lab Sample ID: 180-43702-3

Matrix: Water | Lab File ID: S0506012.D

Analysis Method: 8082A | Date Collected: 05/01/2015 15:00

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1060(mL) | Date Analyzed: 05/06/2015 09:56

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.0094	0.0024
11104-28-2	PCB-1221	ND		0.0094	0.0039
11141-16-5	PCB-1232	ND		0.0094	0.0037
53469-21-9	PCB-1242	ND		0.0094	0.0018
12672-29-6	PCB-1248	ND		0.0094	0.0025
11097-69-1	PCB-1254	ND		0.0094	0.0028
11096-82-5	PCB-1260	ND		0.0094	0.0016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	130		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	97		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506012.D
Lims ID: 180-43702-C-3-A Lab Sample ID: 180-43702-3
Client ID: RB-02
Sample Type: Client
Inject. Date: 06-May-2015 09:56:06 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-012
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 06-May-2015 10:23:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene						
1	3.175	3.173	0.002	19936703	H 0.0194	
2	3.649	3.647	0.002	15656521	H 0.0199	
					RPD = 2.69	
4 PCB-1232						
1		3.315			ND	
1		3.483				
1		3.816				
1		4.305				
1		4.455				
2		3.940				
2		4.171				
2		4.664				
2		5.295				
2		5.493				
1 PCB-1221						
1		3.315			ND	
1		3.484				
1		2.743				
2		3.187				
2		3.942				
2		4.173				

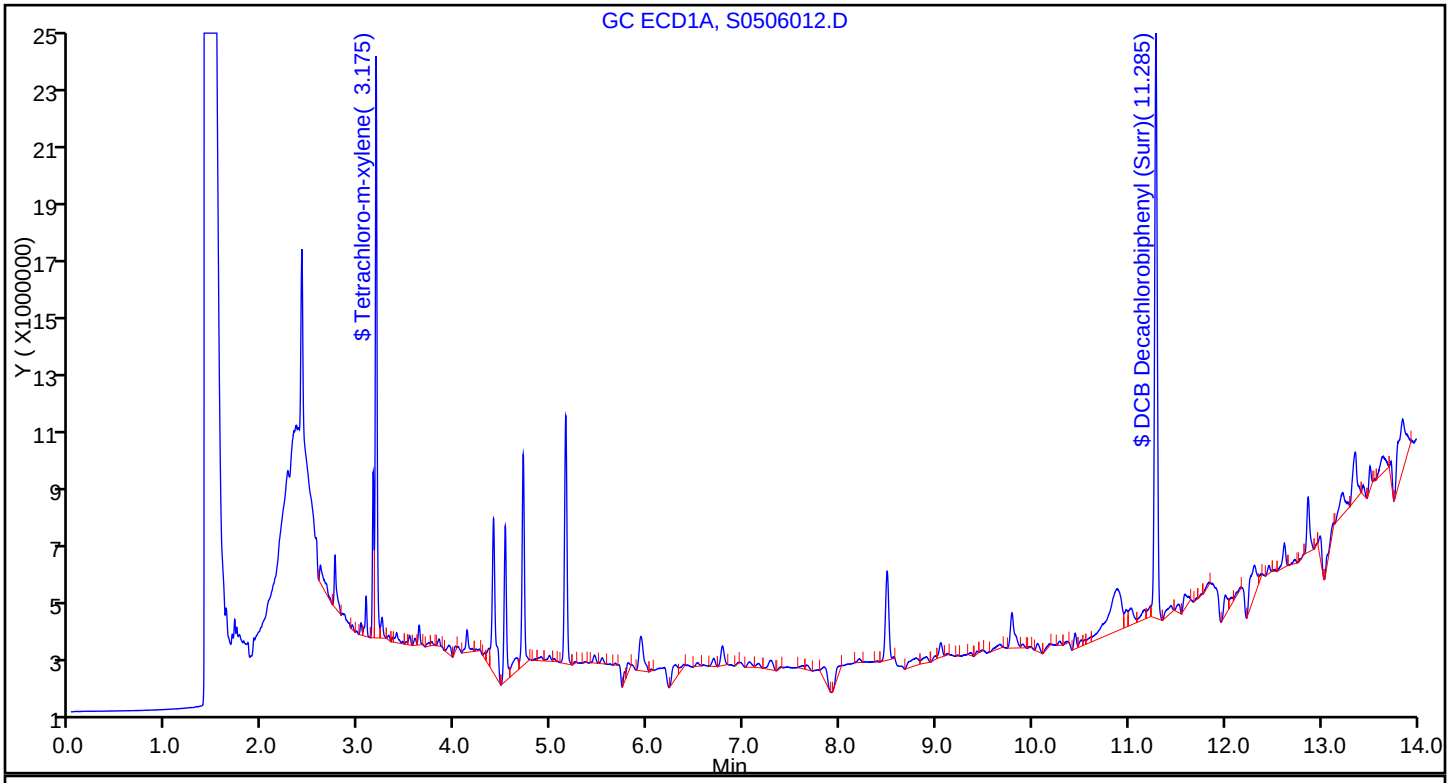
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
3 PCB-1016						
1		3.483			ND	
1		3.815				
1		4.303				
1		4.453				
1		4.948				
2		4.171				
2		4.663				
2		5.295				
2		5.493				
2		6.236				
5 PCB-1242						
1		3.815			ND	
1		4.304				
1		4.454				
1		4.948				
1		5.522				
2		4.171				
2		4.663				
2		5.295				
2		6.236				
2		6.986				
6 PCB-1248						
1		3.815			ND	
1		4.305				
1		4.949				
1		5.524				
1		5.564				
2		4.664				
2		5.793				
2		6.237				
2		6.986				
2		7.420				
7 PCB-1254						
1		5.464			ND	
1		5.847				
1		6.481				
1		7.294				
1		7.840				
2		6.980				
2		7.332				
2		8.278				
2		9.351				
2		9.677				

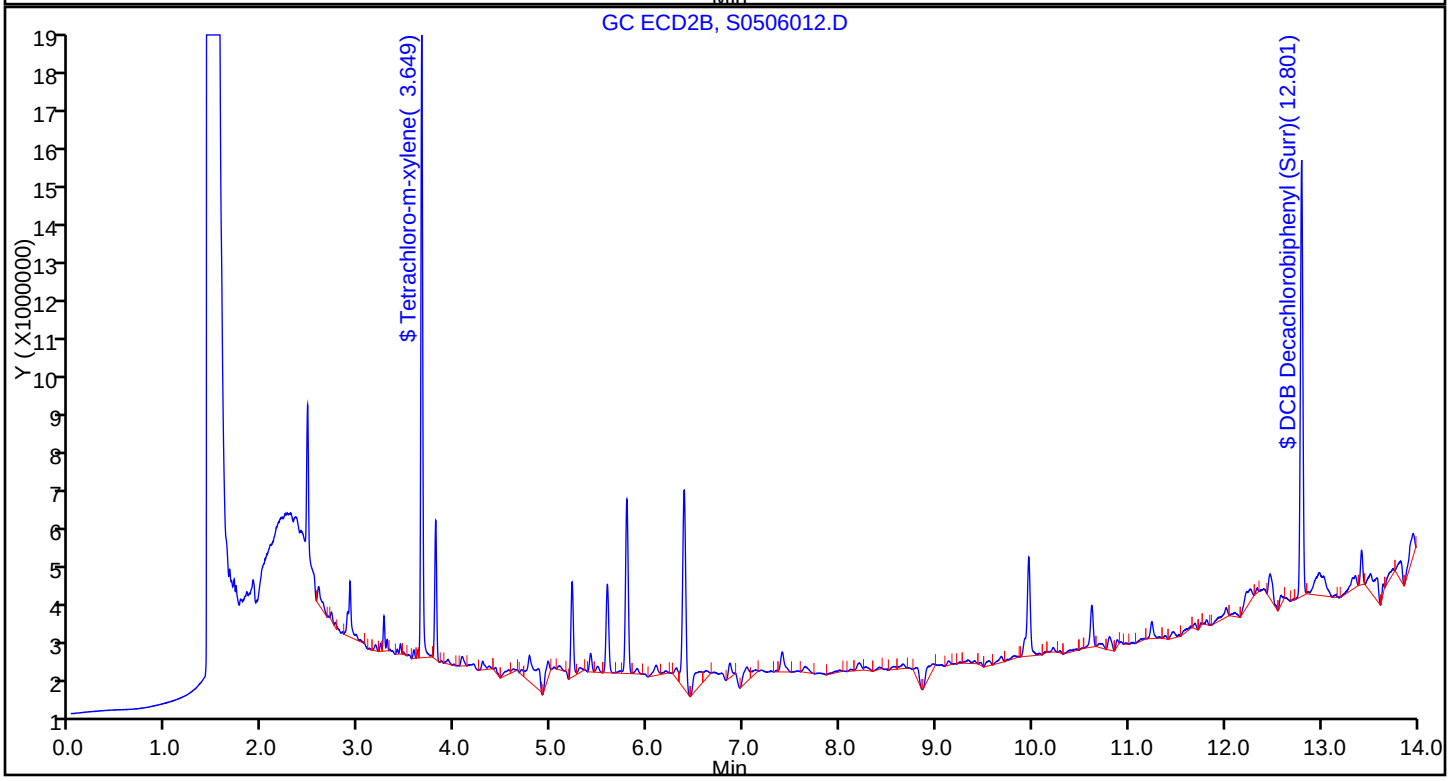
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
9 PCB-1262						
1		6.789			ND	
1		7.290				
1		8.546				
1		9.120				
1		9.600				
2		9.045				
2		9.826				
2		10.690				
2		11.223				
2		12.030				
8 PCB-1260						
1		6.788			ND	
1		7.289				
1		8.546				
1		9.119				
1		9.599				
2		8.655				
2		9.046				
2		10.303				
2		10.690				
2		11.228				
10 PCB-1268						
1		9.666			ND	
1		10.041				
1		10.593				
1		11.014				
2		11.219				
2		11.285				
2		11.643				
2		12.465				
$ 11 DCB Decachlorobiphenyl (Surr)						
1	11.285	11.282	0.003	20046208H	0.0260	
2	12.801	12.797	0.004	10968219H	0.0245	
					RPD = 5.96	
41 1260 Res 2						
1		0.000			ND	
2		0.000				
42 1260 Res 3						
1		0.000			ND	
2		0.000				
43 1260 Res 1						
1		0.000			ND	
2		0.000				
44 1-Bromo-2-nitrobenzene						
1		0.000			ND	
2		0.000				

Report Date: 06-May-2015 11:42:31 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506012.D				
Injection Date:	06-May-2015 09:56:06	Instrument ID:	CHGC10		
Lims ID:	180-43702-C-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	402331	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: RB-02 | Lab Sample ID: 180-43702-3

Matrix: Water | Lab File ID: S0506012.D

Analysis Method: 8082A | Date Collected: 05/01/2015 15:00

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1060(mL) | Date Analyzed: 05/06/2015 09:56

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	122		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	100		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506012.D
Lims ID: 180-43702-C-3-A Lab Sample ID: 180-43702-3
Client ID: RB-02
Sample Type: Client
Inject. Date: 06-May-2015 09:56:06 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-012
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 06-May-2015 10:23:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene						
1	3.175	3.173	0.002	19936703	H 0.0194	
2	3.649	3.647	0.002	15656521	H 0.0199	
					RPD = 2.69	
4 PCB-1232						
1		3.315			ND	
1		3.483				
1		3.816				
1		4.305				
1		4.455				
2		3.940				
2		4.171				
2		4.664				
2		5.295				
2		5.493				
1 PCB-1221						
1		3.315			ND	
1		3.484				
1		2.743				
2		3.187				
2		3.942				
2		4.173				

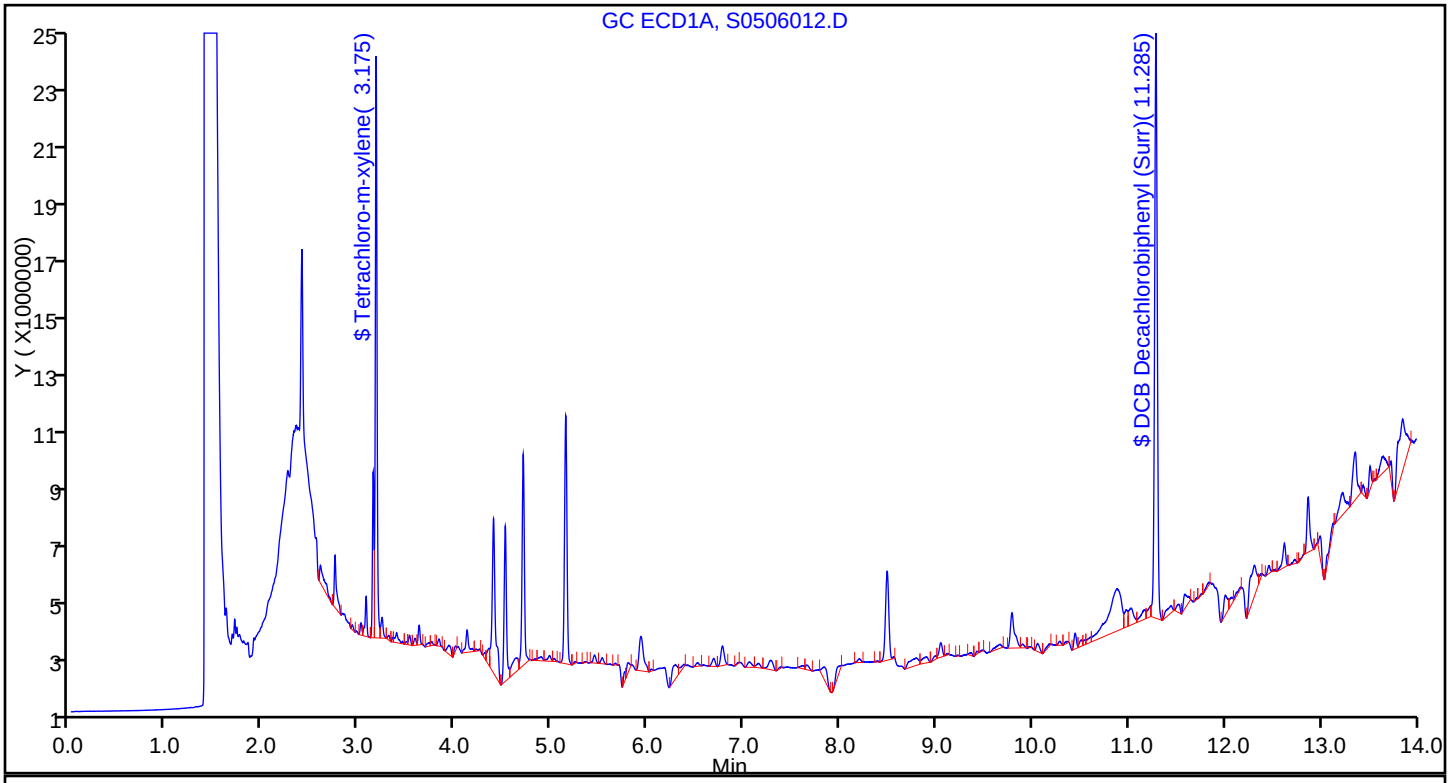
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
3 PCB-1016						
1		3.483			ND	
1		3.815				
1		4.303				
1		4.453				
1		4.948				
2		4.171				
2		4.663				
2		5.295				
2		5.493				
2		6.236				
5 PCB-1242						
1		3.815			ND	
1		4.304				
1		4.454				
1		4.948				
1		5.522				
2		4.171				
2		4.663				
2		5.295				
2		6.236				
2		6.986				
6 PCB-1248						
1		3.815			ND	
1		4.305				
1		4.949				
1		5.524				
1		5.564				
2		4.664				
2		5.793				
2		6.237				
2		6.986				
2		7.420				
7 PCB-1254						
1		5.464			ND	
1		5.847				
1		6.481				
1		7.294				
1		7.840				
2		6.980				
2		7.332				
2		8.278				
2		9.351				
2		9.677				

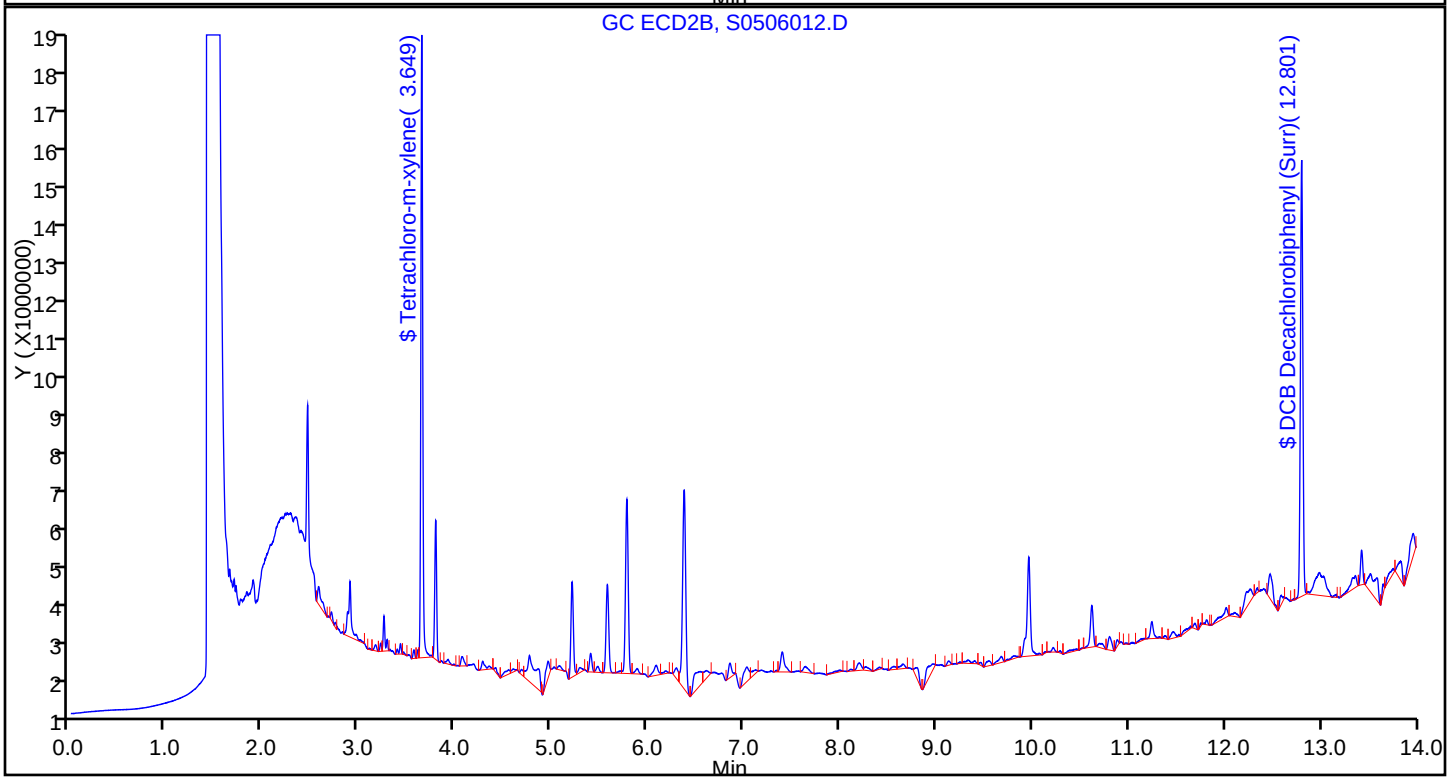
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
9 PCB-1262						
1		6.789			ND	
1		7.290				
1		8.546				
1		9.120				
1		9.600				
2		9.045				
2		9.826				
2		10.690				
2		11.223				
2		12.030				
8 PCB-1260						
1		6.788			ND	
1		7.289				
1		8.546				
1		9.119				
1		9.599				
2		8.655				
2		9.046				
2		10.303				
2		10.690				
2		11.228				
10 PCB-1268						
1		9.666			ND	
1		10.041				
1		10.593				
1		11.014				
2		11.219				
2		11.285				
2		11.643				
2		12.465				
$ 11 DCB Decachlorobiphenyl (Surr)						
1	11.285	11.282	0.003	20046208H	0.0260	
2	12.801	12.797	0.004	10968219H	0.0245	
					RPD = 5.96	
41 1260 Res 2						
1		0.000			ND	
2		0.000				
42 1260 Res 3						
1		0.000			ND	
2		0.000				
43 1260 Res 1						
1		0.000			ND	
2		0.000				
44 1-Bromo-2-nitrobenzene						
1		0.000			ND	
2		0.000				

Report Date: 06-May-2015 11:42:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506012.D				
Injection Date:	06-May-2015 09:56:06	Instrument ID:	CHGC10		
Lims ID:	180-43702-C-3-A	Lab Sample ID:	180-43702-3		
Client ID:	RB-02				
Operator ID:	402331	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-02 | Lab Sample ID: 180-43702-4

Matrix: Water | Lab File ID: S0506123.D

Analysis Method: 8082A | Date Collected: 05/01/2015 15:15

Extraction Method: 3510C | Date Extracted: 05/06/2015 12:40

Sample wt/vol: 1050(mL) | Date Analyzed: 05/07/2015 06:00

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.0095	0.0024
11104-28-2	PCB-1221	ND		0.0095	0.0039
11141-16-5	PCB-1232	ND		0.0095	0.0037
53469-21-9	PCB-1242	ND		0.0095	0.0018
12672-29-6	PCB-1248	ND		0.0095	0.0026
11097-69-1	PCB-1254	ND		0.0095	0.0029
11096-82-5	PCB-1260	ND		0.0095	0.0016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	100		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	90		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506123.D
Lims ID: 180-43702-D-4-A Lab Sample ID: 180-43702-4
Client ID: FB-02
Sample Type: Client
Inject. Date: 07-May-2015 06:00:20 ALS Bottle#: 3 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-023
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:40 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:38:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene						
1	3.173	3.172	0.001	18620220	H 0.0179	
2	3.647	3.643	0.004	15781373	H 0.0175	
					RPD = 2.12	
1 PCB-1221						
1		3.316			ND	
1		3.485				
1		2.744				
2		3.189				
2		3.945				
2		4.175				
4 PCB-1232						
1		3.316			ND	
1		3.485				
1		3.819				
1		4.308				
1		4.457				
2		3.945				
2		4.175				
2		4.666				
2		5.299				
2		5.497				

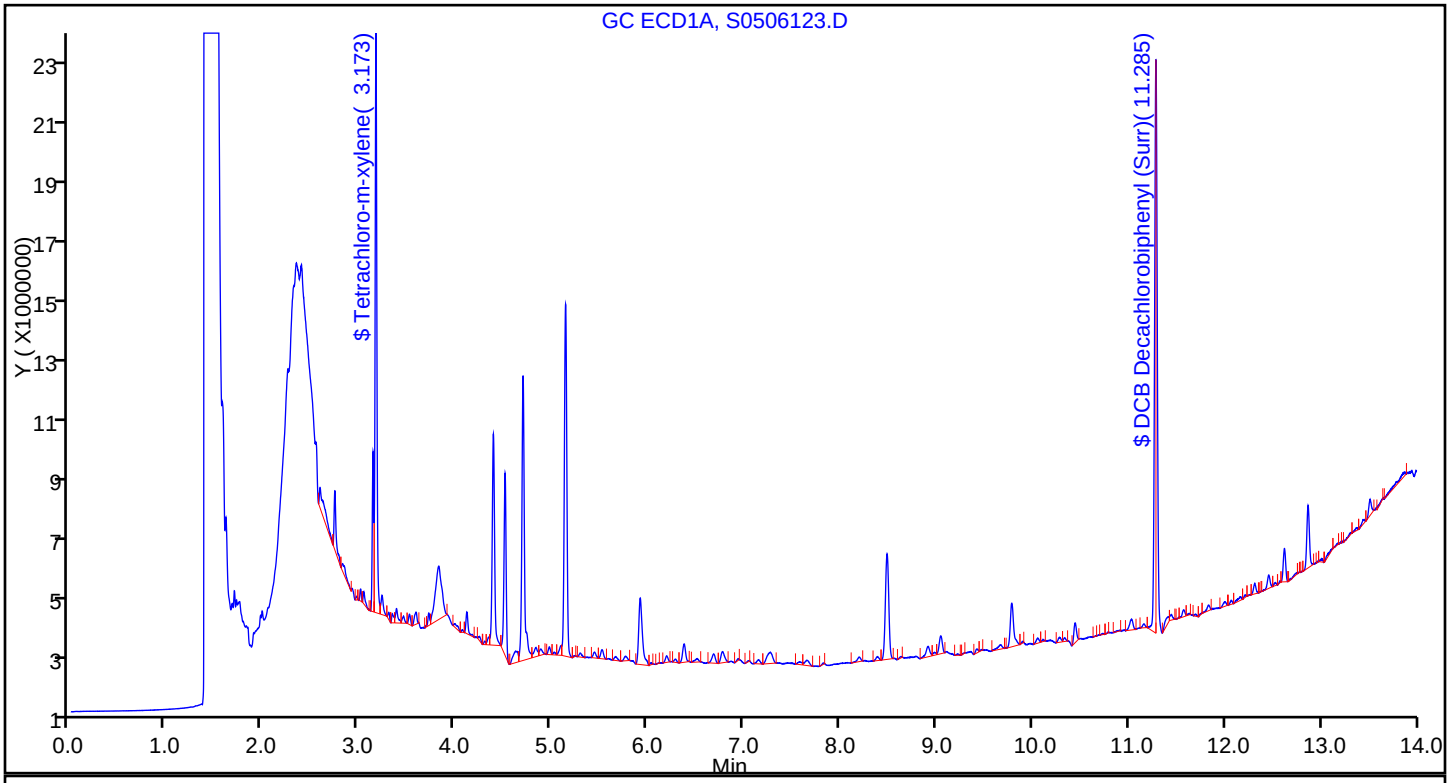
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
3 PCB-1016						
1		3.483			ND	
1		3.816				
1		4.307				
1		4.456				
1		4.953				
2		4.168				
2		4.661				
2		5.293				
2		5.491				
2		6.235				
5 PCB-1242						
1		3.818			ND	
1		4.308				
1		4.457				
1		4.952				
1		5.527				
2		4.175				
2		4.667				
2		5.300				
2		6.242				
2		6.991				
6 PCB-1248						
1		3.818			ND	
1		4.308				
1		4.953				
1		5.528				
1		5.568				
2		4.668				
2		5.798				
2		6.242				
2		6.991				
2		7.425				
7 PCB-1254						
1		5.466			ND	
1		5.849				
1		6.482				
1		7.296				
1		7.842				
2		6.982				
2		7.337				
2		8.283				
2		9.355				
2		9.681				

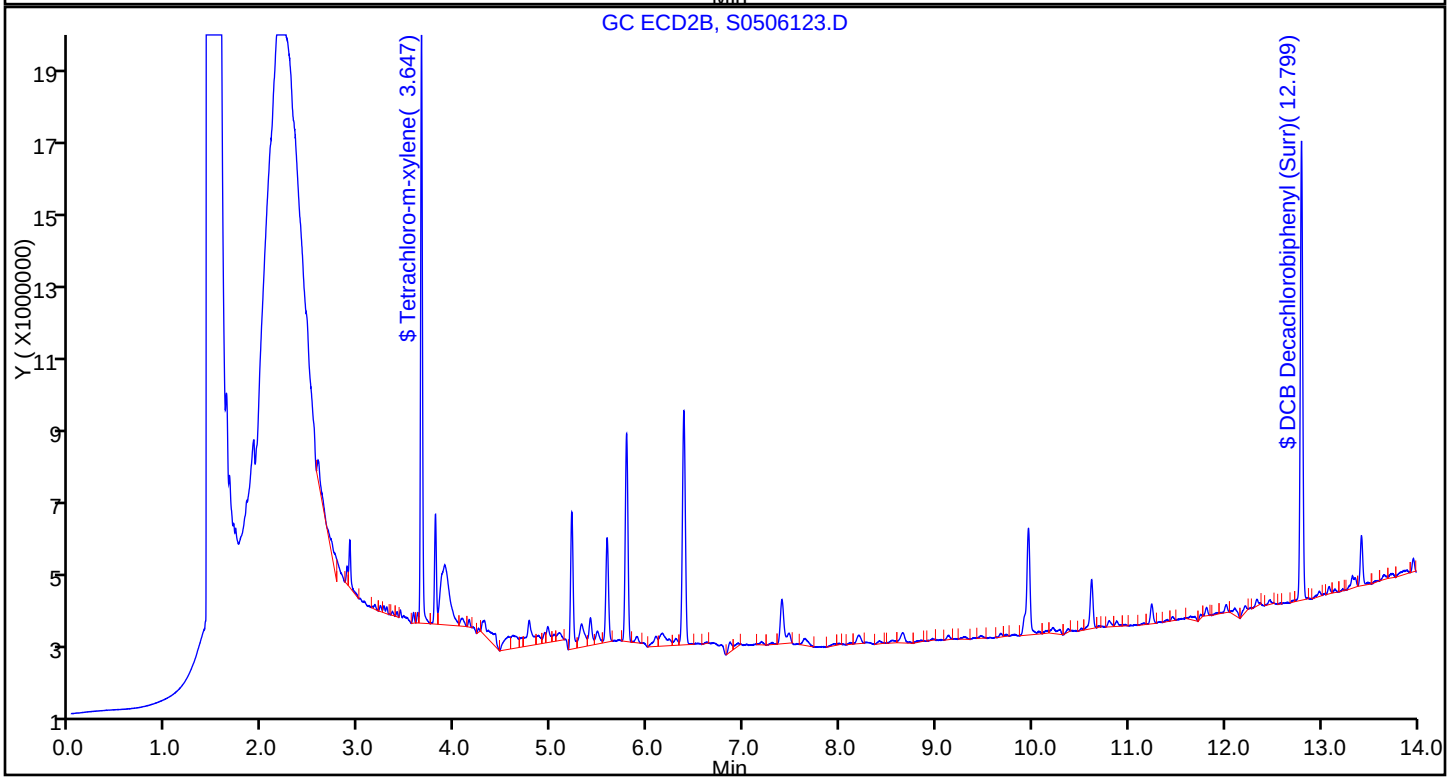
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
9 PCB-1262						
1		6.791			ND	
1		7.294				
1		8.550				
1		9.124				
1		9.604				
2		9.050				
2		9.831				
2		10.694				
2		11.226				
2		12.034				
8 PCB-1260						
1		6.796			ND	
1		7.296				
1		8.555				
1		9.129				
1		9.607				
2		8.655				
2		9.046				
2		10.301				
2		10.690				
2		11.228				
10 PCB-1268						
1		9.670			ND	
1		10.045				
1		10.597				
1		11.018				
2		11.222				
2		11.288				
2		11.646				
2		12.467				
$ 11 DCB Decachlorobiphenyl (Surr)						
1	11.285	11.290	-0.005	18431808	H 0.0200	
2	12.799	12.798	0.001	12322051	H 0.0205	
					RPD = 2.68	
41 1260 Res 2						
1		0.000			ND	
2		0.000				
42 1260 Res 3						
1		0.000			ND	
2		0.000				
43 1260 Res 1						
1		0.000			ND	
2		0.000				
44 1-Bromo-2-nitrobenzene						
1		0.000			ND	
2		0.000				

Report Date: 07-May-2015 09:32:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506123.D				
Injection Date:	07-May-2015 06:00:20	Instrument ID:	CHGC10		
Lims ID:	180-43702-D-4-A	Lab Sample ID:	180-43702-4		
Client ID:	FB-02				
Operator ID:	402331	ALS Bottle#:	3	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Client Sample ID: FB-02 Lab Sample ID: 180-43702-4

Matrix: Water Lab File ID: S0506123.D

Analysis Method: 8082A Date Collected: 05/01/2015 15:15

Extraction Method: 3510C Date Extracted: 05/06/2015 12:40

Sample wt/vol: 1050(mL) Date Analyzed: 05/07/2015 06:00

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 140736 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	103		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	88		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506123.D
Lims ID: 180-43702-D-4-A Lab Sample ID: 180-43702-4
Client ID: FB-02
Sample Type: Client
Inject. Date: 07-May-2015 06:00:20 ALS Bottle#: 3 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-023
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:40 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:38:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene						
1	3.173	3.172	0.001	18620220	H 0.0179	
2	3.647	3.643	0.004	15781373	H 0.0175	
					RPD = 2.12	
1 PCB-1221						
1		3.316			ND	
1		3.485				
1		2.744				
2		3.189				
2		3.945				
2		4.175				
4 PCB-1232						
1		3.316			ND	
1		3.485				
1		3.819				
1		4.308				
1		4.457				
2		3.945				
2		4.175				
2		4.666				
2		5.299				
2		5.497				

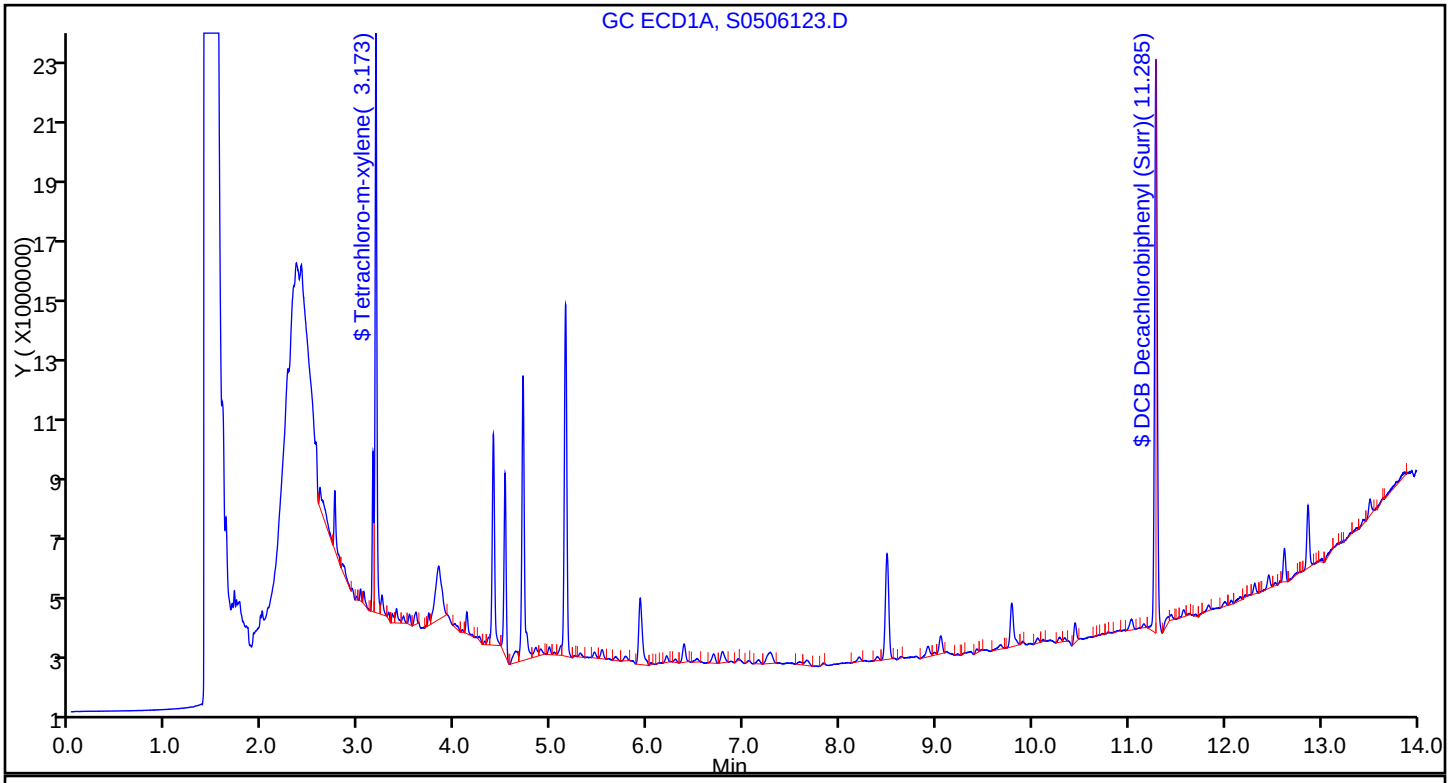
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
3 PCB-1016						
1		3.483			ND	
1		3.816				
1		4.307				
1		4.456				
1		4.953				
2		4.168				
2		4.661				
2		5.293				
2		5.491				
2		6.235				
5 PCB-1242						
1		3.818			ND	
1		4.308				
1		4.457				
1		4.952				
1		5.527				
2		4.175				
2		4.667				
2		5.300				
2		6.242				
2		6.991				
6 PCB-1248						
1		3.818			ND	
1		4.308				
1		4.953				
1		5.528				
1		5.568				
2		4.668				
2		5.798				
2		6.242				
2		6.991				
2		7.425				
7 PCB-1254						
1		5.466			ND	
1		5.849				
1		6.482				
1		7.296				
1		7.842				
2		6.982				
2		7.337				
2		8.283				
2		9.355				
2		9.681				

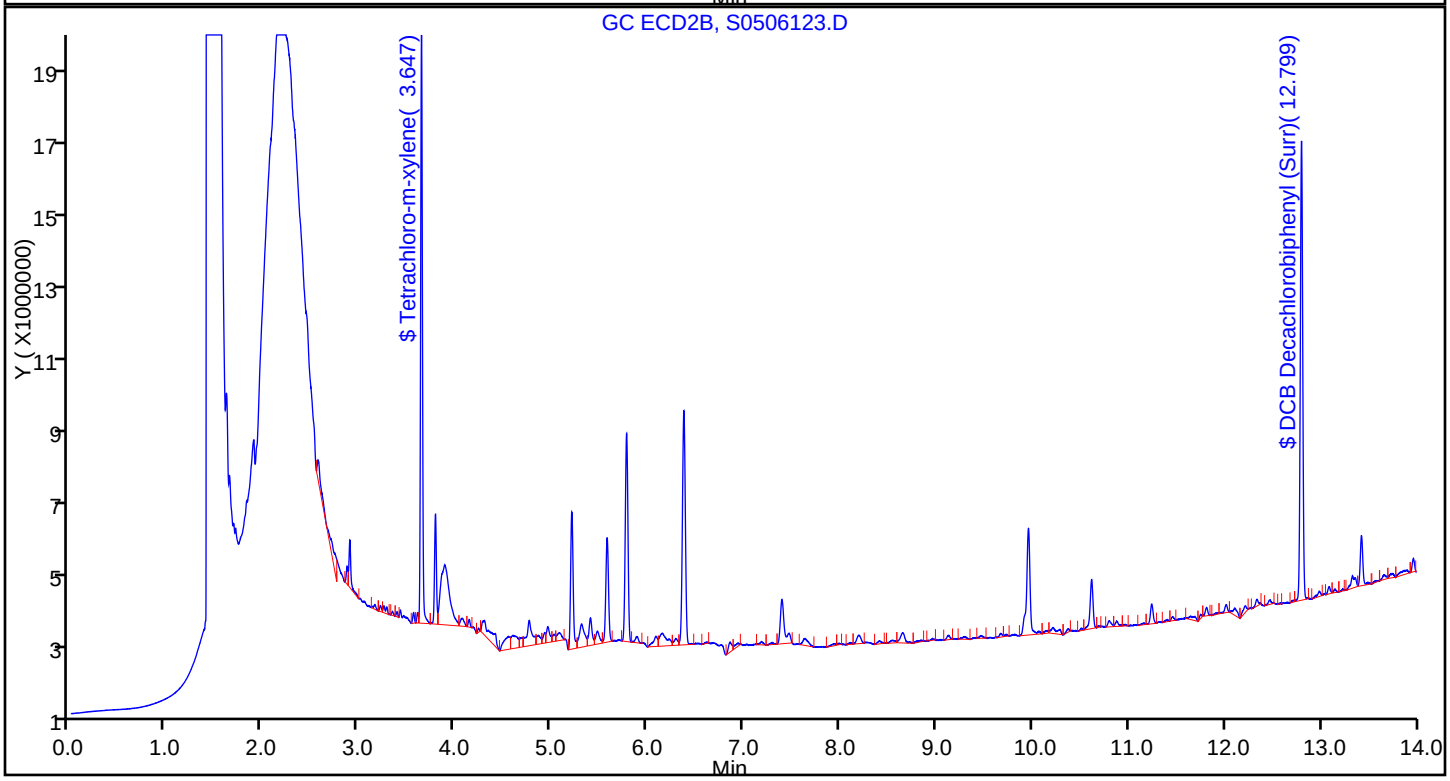
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
9 PCB-1262						
1		6.791			ND	
1		7.294				
1		8.550				
1		9.124				
1		9.604				
2		9.050				
2		9.831				
2		10.694				
2		11.226				
2		12.034				
8 PCB-1260						
1		6.796			ND	
1		7.296				
1		8.555				
1		9.129				
1		9.607				
2		8.655				
2		9.046				
2		10.301				
2		10.690				
2		11.228				
10 PCB-1268						
1		9.670			ND	
1		10.045				
1		10.597				
1		11.018				
2		11.222				
2		11.288				
2		11.646				
2		12.467				
$ 11 DCB Decachlorobiphenyl (Surr)						
1	11.285	11.290	-0.005	18431808	H 0.0200	
2	12.799	12.798	0.001	12322051	H 0.0205	
					RPD = 2.68	
41 1260 Res 2						
1		0.000			ND	
2		0.000				
42 1260 Res 3						
1		0.000			ND	
2		0.000				
43 1260 Res 1						
1		0.000			ND	
2		0.000				
44 1-Bromo-2-nitrobenzene						
1		0.000			ND	
2		0.000				

Report Date: 07-May-2015 09:32:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506123.D				
Injection Date:	07-May-2015 06:00:20	Instrument ID:	CHGC10		
Lims ID:	180-43702-D-4-A	Lab Sample ID:	180-43702-4		
Client ID:	FB-02				
Operator ID:	402331	ALS Bottle#:	3	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:31 Calibration End Date: 04/29/2015 06:31 Calibration ID: 23608

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/1	S0429001.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1221 Peak 3	2.736										2.686 - 2.786	2.736
PCB-1221 Peak 1	3.308										3.258 - 3.358	3.308
PCB-1221 Peak 2	3.477										3.427 - 3.527	3.477
PCB-1254 Peak 1	5.456										5.386 - 5.526	5.456
PCB-1254 Peak 2	5.837										5.767 - 5.907	5.837
PCB-1254 Peak 3	6.471										6.401 - 6.541	6.471
PCB-1254 Peak 4	7.285										7.215 - 7.355	7.285
PCB-1254 Peak 5	7.830										7.760 - 7.900	7.830

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:31 Calibration End Date: 04/29/2015 06:31 Calibration ID: 23608

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/1	S0429001.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1221 Peak 3	6479720				Ave		6479720.00						20.0			
PCB-1221 Peak 1	10396042				Ave		10396042.0						20.0			
PCB-1221 Peak 2	23784288				Ave		23784288.0						20.0			
PCB-1254 Peak 1	25006492				Ave		25006492.0						20.0			
PCB-1254 Peak 2	31696726				Ave		31696726.0						20.0			
PCB-1254 Peak 3	42325526				Ave		42325526.0						20.0			
PCB-1254 Peak 4	26228820				Ave		26228820.0						20.0			
PCB-1254 Peak 5	29452156				Ave		29452156.0						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:31 Calibration End Date: 04/29/2015 06:31 Calibration ID: 23608

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/1	S0429001.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1221 Peak 3	Ave	3239860					0.500				
PCB-1221 Peak 1	Ave	5198021					0.500				
PCB-1221 Peak 2	Ave	11892144					0.500				
PCB-1254 Peak 1	Ave	12503246					0.500				
PCB-1254 Peak 2	Ave	15848363					0.500				
PCB-1254 Peak 3	Ave	21162763					0.500				
PCB-1254 Peak 4	Ave	13114410					0.500				
PCB-1254 Peak 5	Ave	14726078					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429001.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2015 06:31:25 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-001
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:25 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:16:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.308	3.308	0.000	5198021H	0.5000	0.5000	
1	3.477	3.477	0.000	11892144H	0.5000	0.5000	
1	2.736	2.736	0.000	3239860H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.181	3.181	0.000	2822821H	0.5000	0.5000	
2	3.936	3.936	0.000	3223072H	0.5000	0.5000	
2	4.166	4.166	0.000	6332298H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
7 PCB-1254							
1	5.456	5.456	0.000	12503246H	0.5000	0.5000	
1	5.837	5.837	0.000	15848363H	0.5000	0.5000	
1	6.471	6.471	0.000	21162763H	0.5000	0.5000	
1	7.285	7.285	0.000	13114410H	0.5000	0.5000	
1	7.830	7.830	0.000	14726078H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	6.972	6.972	0.000	7730424H	0.5000	0.5000	
2	7.326	7.326	0.000	8249186H	0.5000	0.5000	
2	8.271	8.271	0.000	11907327H	0.5000	0.5000	
2	9.346	9.346	0.000	7010388H	0.5000	0.5000	
2	9.671	9.671	0.000	10416539H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

GCAR2154CALL4_00008 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:25 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429001.D

Injection Date: 29-Apr-2015 06:31:25 Instrument ID: CHGC10

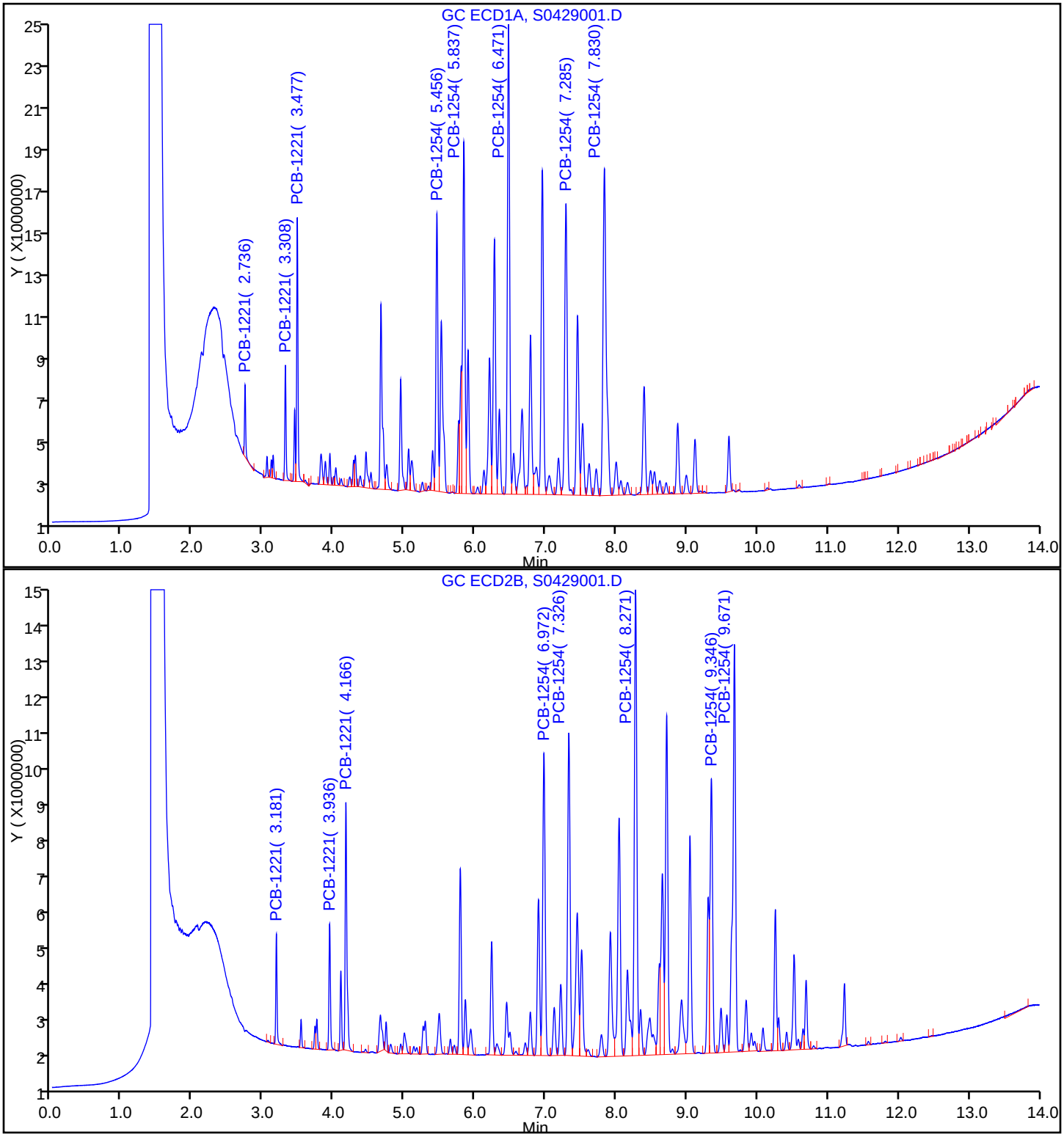
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:31 Calibration End Date: 04/29/2015 06:31 Calibration ID: 23609

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/1	S0429001.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1221 Peak 1	3.181										3.131 - 3.231	3.181
PCB-1221 Peak 2	3.936										3.886 - 3.986	3.936
PCB-1221 Peak 3	4.166										4.116 - 4.216	4.166
PCB-1254 Peak 1	6.972										6.902 - 7.042	6.972
PCB-1254 Peak 2	7.326										7.256 - 7.396	7.326
PCB-1254 Peak 3	8.271										8.201 - 8.341	8.271
PCB-1254 Peak 4	9.346										9.276 - 9.416	9.346
PCB-1254 Peak 5	9.671										9.601 - 9.741	9.671

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:31 Calibration End Date: 04/29/2015 06:31 Calibration ID: 23609

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/1	S0429001.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1221 Peak 1	5645642				Ave		5645642.00						20.0			
PCB-1221 Peak 2	6446144				Ave		6446144.00						20.0			
PCB-1221 Peak 3	12664596				Ave		12664596.0						20.0			
PCB-1254 Peak 1	15460848				Ave		15460848.0						20.0			
PCB-1254 Peak 2	16498372				Ave		16498372.0						20.0			
PCB-1254 Peak 3	23814654				Ave		23814654.0						20.0			
PCB-1254 Peak 4	14020776				Ave		14020776.0						20.0			
PCB-1254 Peak 5	20833078				Ave		20833078.0						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:31 Calibration End Date: 04/29/2015 06:31 Calibration ID: 23609

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/1	S0429001.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1221 Peak 1	Ave	2822821					0.500				
PCB-1221 Peak 2	Ave	3223072					0.500				
PCB-1221 Peak 3	Ave	6332298					0.500				
PCB-1254 Peak 1	Ave	7730424					0.500				
PCB-1254 Peak 2	Ave	8249186					0.500				
PCB-1254 Peak 3	Ave	11907327					0.500				
PCB-1254 Peak 4	Ave	7010388					0.500				
PCB-1254 Peak 5	Ave	10416539					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429001.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2015 06:31:25 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-001
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:25 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:16:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.308	3.308	0.000	5198021H	0.5000	0.5000	
1	3.477	3.477	0.000	11892144H	0.5000	0.5000	
1	2.736	2.736	0.000	3239860H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.181	3.181	0.000	2822821H	0.5000	0.5000	
2	3.936	3.936	0.000	3223072H	0.5000	0.5000	
2	4.166	4.166	0.000	6332298H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
7 PCB-1254							
1	5.456	5.456	0.000	12503246H	0.5000	0.5000	
1	5.837	5.837	0.000	15848363H	0.5000	0.5000	
1	6.471	6.471	0.000	21162763H	0.5000	0.5000	
1	7.285	7.285	0.000	13114410H	0.5000	0.5000	
1	7.830	7.830	0.000	14726078H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	6.972	6.972	0.000	7730424H	0.5000	0.5000	
2	7.326	7.326	0.000	8249186H	0.5000	0.5000	
2	8.271	8.271	0.000	11907327H	0.5000	0.5000	
2	9.346	9.346	0.000	7010388H	0.5000	0.5000	
2	9.671	9.671	0.000	10416539H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

GCAR2154CALL4_00008 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:25 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429001.D

Injection Date: 29-Apr-2015 06:31:25 Instrument ID: CHGC10

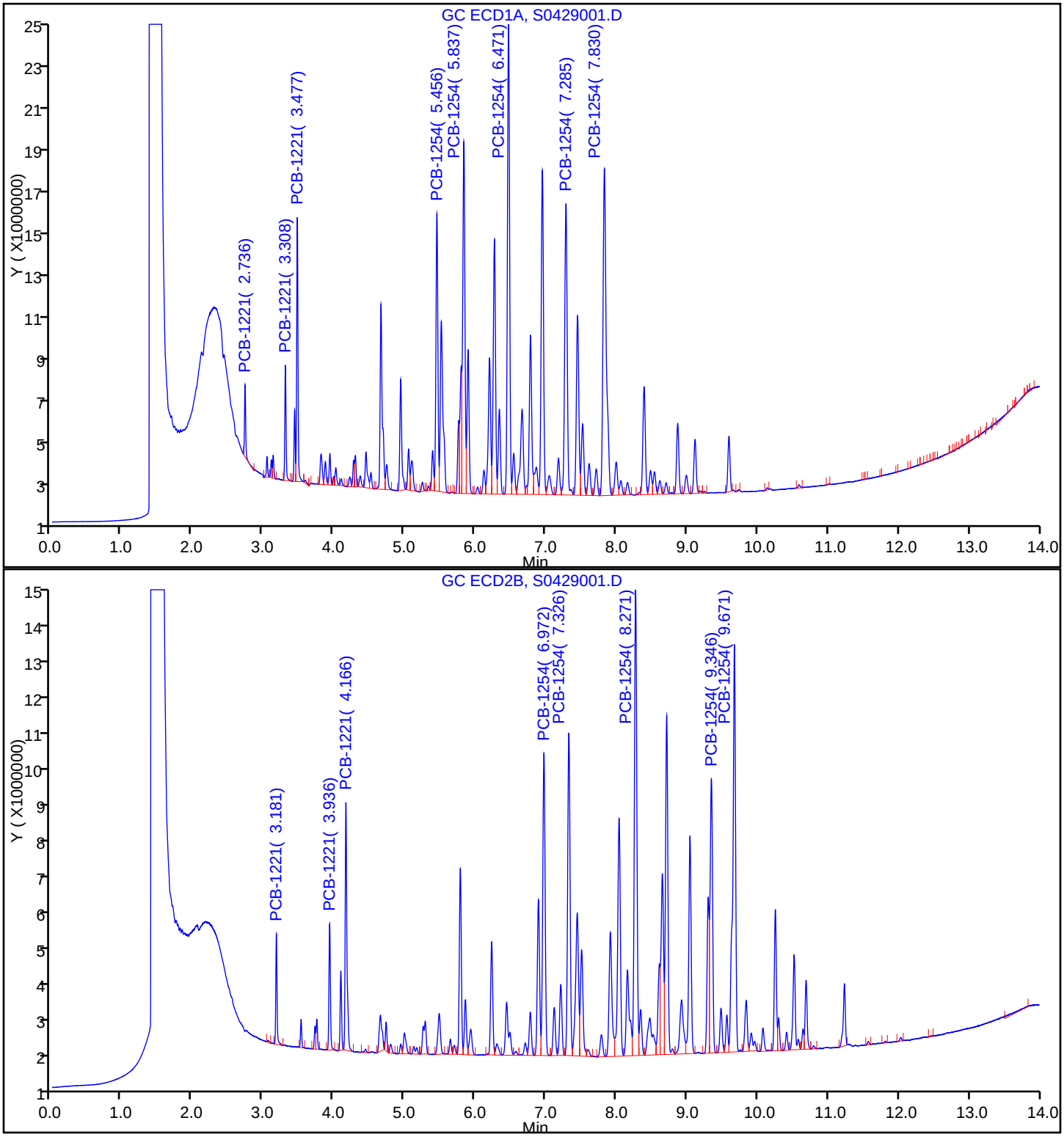
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:50 Calibration End Date: 04/29/2015 06:50 Calibration ID: 23614

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/2	S0429002.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	3.309										3.259 - 3.359	3.309
PCB-1232 Peak 2	3.478										3.428 - 3.528	3.478
PCB-1232 Peak 3	3.811										3.761 - 3.861	3.811
PCB-1232 Peak 4	4.300										4.250 - 4.350	4.300
PCB-1232 Peak 5	4.450										4.400 - 4.500	4.450
PCB-1262 Peak 1	6.783										6.733 - 6.833	6.783
PCB-1262 Peak 2	7.284										7.234 - 7.334	7.284
PCB-1262 Peak 3	8.540										8.490 - 8.590	8.540
PCB-1262 Peak 4	9.115										9.065 - 9.165	9.115
PCB-1262 Peak 5	9.595										9.545 - 9.645	9.595

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:50 Calibration End Date: 04/29/2015 06:50 Calibration ID: 23614

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/2	S0429002.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	7319552				Ave		7319552.00						20.0			
PCB-1232 Peak 2	20877618				Ave		20877618.0						20.0			
PCB-1232 Peak 3	12194610				Ave		12194610.0						20.0			
PCB-1232 Peak 4	17593210				Ave		17593210.0						20.0			
PCB-1232 Peak 5	11103812				Ave		11103812.0						20.0			
PCB-1262 Peak 1	26594360				Ave		26594360.0						20.0			
PCB-1262 Peak 2	33962634				Ave		33962634.0						20.0			
PCB-1262 Peak 3	39475118				Ave		39475118.0						20.0			
PCB-1262 Peak 4	85312944				Ave		85312944.0						20.0			
PCB-1262 Peak 5	31739020				Ave		31739020.0						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:50 Calibration End Date: 04/29/2015 06:50 Calibration ID: 23614

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/2	S0429002.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	3659776					0.500				
PCB-1232 Peak 2	Ave	10438809					0.500				
PCB-1232 Peak 3	Ave	6097305					0.500				
PCB-1232 Peak 4	Ave	8796605					0.500				
PCB-1232 Peak 5	Ave	5551906					0.500				
PCB-1262 Peak 1	Ave	13297180					0.500				
PCB-1262 Peak 2	Ave	16981317					0.500				
PCB-1262 Peak 3	Ave	19737559					0.500				
PCB-1262 Peak 4	Ave	42656472					0.500				
PCB-1262 Peak 5	Ave	15869510					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429002.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2015 06:50:10 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-002
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub23

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:23 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:16:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
4 PCB-1232							
1	3.309	3.309	0.000	3659776H	0.5000	0.5000	
1	3.478	3.478	0.000	10438809H	0.5000	0.5000	
1	3.811	3.811	0.000	6097305H	0.5000	0.5000	
1	4.300	4.300	0.000	8796605H	0.5000	0.5000	
1	4.450	4.450	0.000	5551906H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.936	3.936	0.000	2325779H	0.5000	0.5000	
2	4.167	4.167	0.000	5657769H	0.5000	0.5000	
2	4.658	4.658	0.000	3452336H	0.5000	0.5000	
2	5.291	5.291	0.000	4907243H	0.5000	0.5000	
2	5.489	5.489	0.000	3148267H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
9 PCB-1262							
1	6.783	6.783	0.000	13297180H	0.5000	0.5000	
1	7.284	7.284	0.000	16981317H	0.5000	0.5000	
1	8.540	8.540	0.000	19737559H	0.5000	0.5000	
1	9.115	9.115	0.000	42656472H	0.5000	0.5000	
1	9.595	9.595	0.000	15869510H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	9.043	9.043	0.000	9440431H	0.5000	0.5000	
2	9.824	9.824	0.000	14284826H	0.5000	0.5000	
2	10.689	10.689	0.000	27006180H	0.5000	0.5000	
2	11.222	11.222	0.000	16391552H	0.5000	0.5000	
2	12.030	12.030	0.000	10952333H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

GCAR3262CALL4_00001 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429002.D

Injection Date: 29-Apr-2015 06:50:10 Instrument ID: CHGC10

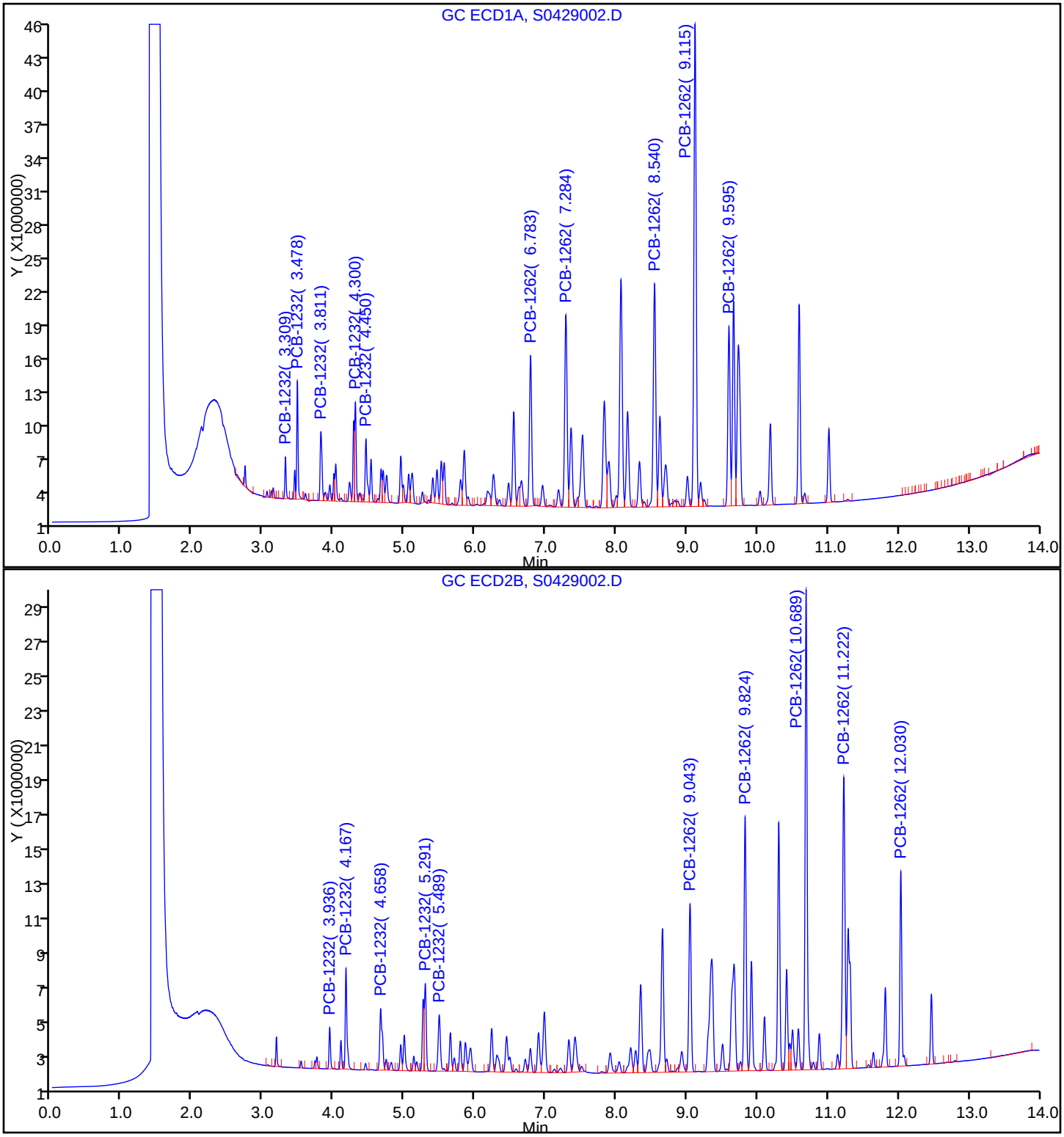
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:50 Calibration End Date: 04/29/2015 06:50 Calibration ID: 23615

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/2	S0429002.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	3.936										3.886 - 3.986	3.936
PCB-1232 Peak 2	4.167										4.117 - 4.217	4.167
PCB-1232 Peak 3	4.658										4.608 - 4.708	4.658
PCB-1232 Peak 4	5.291										5.241 - 5.341	5.291
PCB-1232 Peak 5	5.489										5.439 - 5.539	5.489
PCB-1262 Peak 1	9.043										8.993 - 9.093	9.043
PCB-1262 Peak 2	9.824										9.774 - 9.874	9.824
PCB-1262 Peak 3	10.689										10.639 - 10.739	10.689
PCB-1262 Peak 4	11.222										11.172 - 11.272	11.222
PCB-1262 Peak 5	12.030										11.980 - 12.080	12.030

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:50 Calibration End Date: 04/29/2015 06:50 Calibration ID: 23615

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/2	S0429002.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	4651558				Ave		4651558.00						20.0			
PCB-1232 Peak 2	11315538				Ave		11315538.0						20.0			
PCB-1232 Peak 3	6904672				Ave		6904672.00						20.0			
PCB-1232 Peak 4	9814486				Ave		9814486.00						20.0			
PCB-1232 Peak 5	6296534				Ave		6296534.00						20.0			
PCB-1262 Peak 1	18880862				Ave		18880862.0						20.0			
PCB-1262 Peak 2	28569652				Ave		28569652.0						20.0			
PCB-1262 Peak 3	54012360				Ave		54012360.0						20.0			
PCB-1262 Peak 4	32783104				Ave		32783104.0						20.0			
PCB-1262 Peak 5	21904666				Ave		21904666.0						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 06:50 Calibration End Date: 04/29/2015 06:50 Calibration ID: 23615

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/2	S0429002.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	2325779					0.500				
PCB-1232 Peak 2	Ave	5657769					0.500				
PCB-1232 Peak 3	Ave	3452336					0.500				
PCB-1232 Peak 4	Ave	4907243					0.500				
PCB-1232 Peak 5	Ave	3148267					0.500				
PCB-1262 Peak 1	Ave	9440431					0.500				
PCB-1262 Peak 2	Ave	14284826					0.500				
PCB-1262 Peak 3	Ave	27006180					0.500				
PCB-1262 Peak 4	Ave	16391552					0.500				
PCB-1262 Peak 5	Ave	10952333					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429002.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2015 06:50:10 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-002
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub23

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:23 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:16:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
4 PCB-1232							
1	3.309	3.309	0.000	3659776H	0.5000	0.5000	
1	3.478	3.478	0.000	10438809H	0.5000	0.5000	
1	3.811	3.811	0.000	6097305H	0.5000	0.5000	
1	4.300	4.300	0.000	8796605H	0.5000	0.5000	
1	4.450	4.450	0.000	5551906H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.936	3.936	0.000	2325779H	0.5000	0.5000	
2	4.167	4.167	0.000	5657769H	0.5000	0.5000	
2	4.658	4.658	0.000	3452336H	0.5000	0.5000	
2	5.291	5.291	0.000	4907243H	0.5000	0.5000	
2	5.489	5.489	0.000	3148267H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
9 PCB-1262							
1	6.783	6.783	0.000	13297180H	0.5000	0.5000	
1	7.284	7.284	0.000	16981317H	0.5000	0.5000	
1	8.540	8.540	0.000	19737559H	0.5000	0.5000	
1	9.115	9.115	0.000	42656472H	0.5000	0.5000	
1	9.595	9.595	0.000	15869510H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	9.043	9.043	0.000	9440431H	0.5000	0.5000	
2	9.824	9.824	0.000	14284826H	0.5000	0.5000	
2	10.689	10.689	0.000	27006180H	0.5000	0.5000	
2	11.222	11.222	0.000	16391552H	0.5000	0.5000	
2	12.030	12.030	0.000	10952333H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

GCAR3262CALL4_00001 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429002.D

Injection Date: 29-Apr-2015 06:50:10 Instrument ID: CHGC10

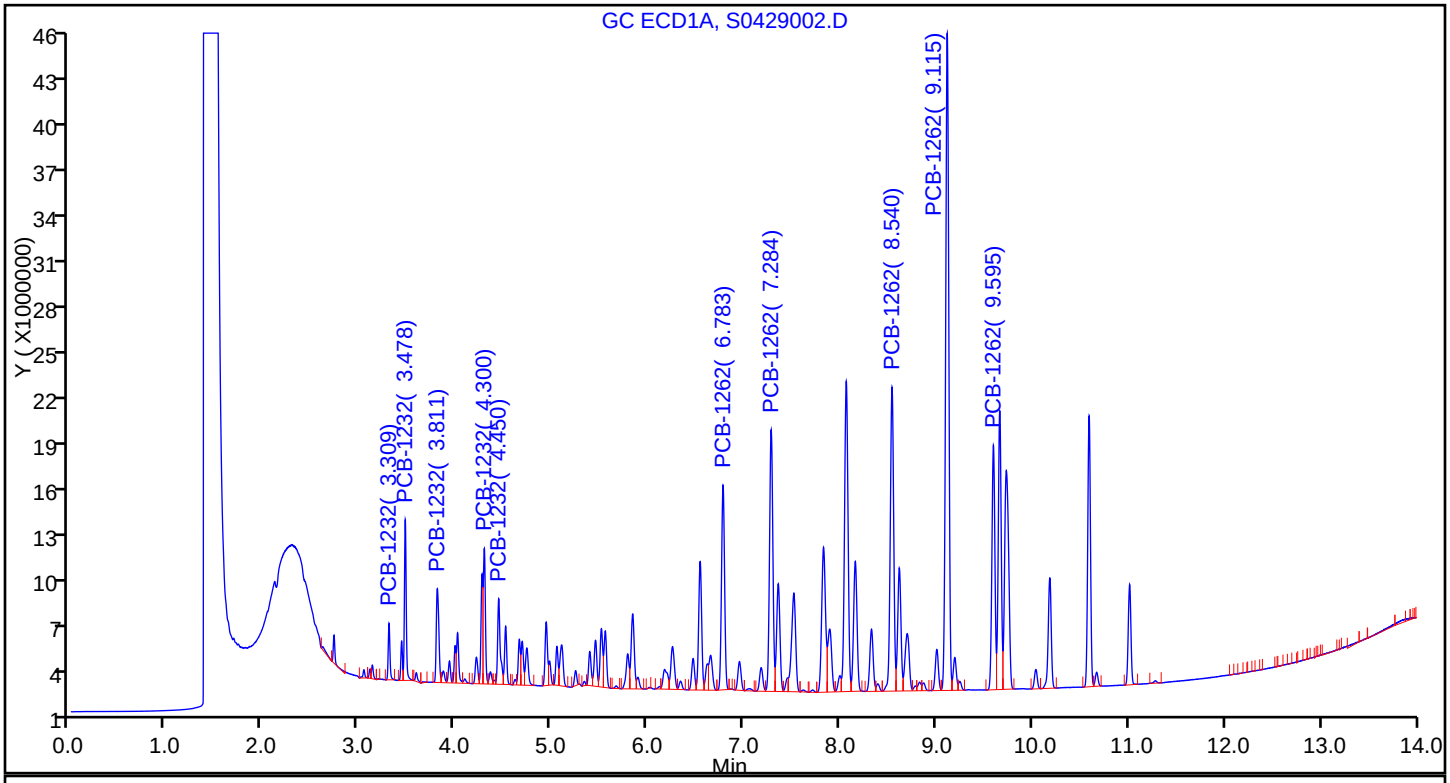
Lims ID: IC

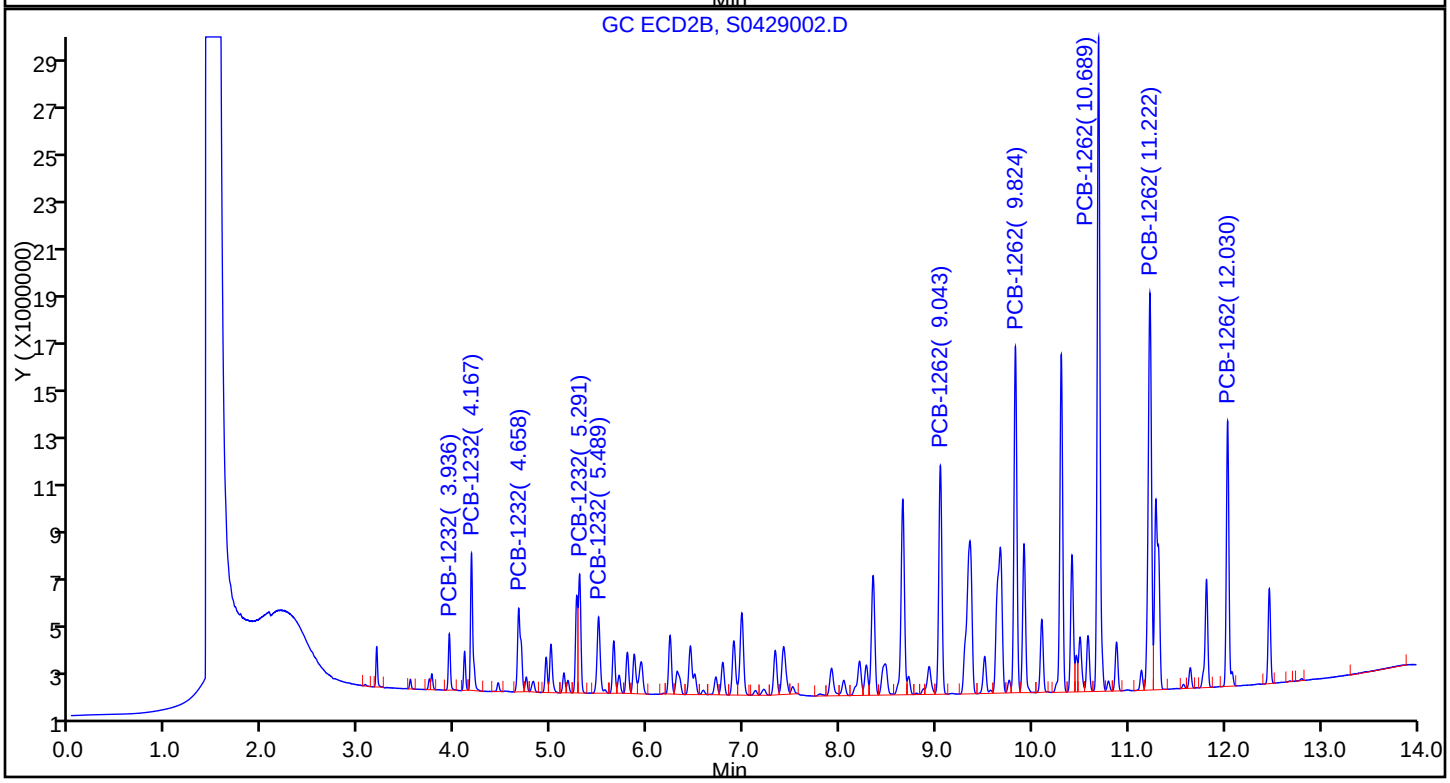
Client ID:

Operator ID: 402331 ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:08 Calibration End Date: 04/29/2015 07:08 Calibration ID: 23620

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/3	S0429003.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	3.811										3.761 - 3.861	3.811
PCB-1242 Peak 2	4.300										4.250 - 4.350	4.300
PCB-1242 Peak 3	4.449										4.399 - 4.499	4.449
PCB-1242 Peak 4	4.943										4.893 - 4.993	4.943
PCB-1242 Peak 5	5.517										5.467 - 5.567	5.517
PCB-1268 Peak 1	9.661										9.611 - 9.711	9.661
PCB-1268 Peak 2	10.035										9.985 - 10.085	10.035
PCB-1268 Peak 3	10.590										10.540 - 10.640	10.590
PCB-1268 Peak 4	11.011										10.961 - 11.061	11.011

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:08 Calibration End Date: 04/29/2015 07:08 Calibration ID: 23620

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/3	S0429003.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	21691130				Ave		21691130.0						20.0			
PCB-1242 Peak 2	32073548				Ave		32073548.0						20.0			
PCB-1242 Peak 3	19644862				Ave		19644862.0						20.0			
PCB-1242 Peak 4	16396042				Ave		16396042.0						20.0			
PCB-1242 Peak 5	15600770				Ave		15600770.0						20.0			
PCB-1268 Peak 1	99259896				Ave		99259896.0						20.0			
PCB-1268 Peak 2	80836534				Ave		80836534.0						20.0			
PCB-1268 Peak 3	36978486				Ave		36978486.0						20.0			
PCB-1268 Peak 4	275336230				Ave		275336230						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:08 Calibration End Date: 04/29/2015 07:08 Calibration ID: 23620

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/3	S0429003.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	10845565					0.500				
PCB-1242 Peak 2	Ave	16036774					0.500				
PCB-1242 Peak 3	Ave	9822431					0.500				
PCB-1242 Peak 4	Ave	8198021					0.500				
PCB-1242 Peak 5	Ave	7800385					0.500				
PCB-1268 Peak 1	Ave	49629948					0.500				
PCB-1268 Peak 2	Ave	40418267					0.500				
PCB-1268 Peak 3	Ave	18489243					0.500				
PCB-1268 Peak 4	Ave	137668115					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429003.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2015 07:08:54 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-003
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub24

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:20 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:27:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
5 PCB-1242							
1	3.811	3.811	0.000	10845565H	0.5000	0.5000	
1	4.300	4.300	0.000	16036774H	0.5000	0.5000	
1	4.449	4.449	0.000	9822431H	0.5000	0.5000	
1	4.943	4.943	0.000	8198021H	0.5000	0.5000	
1	5.517	5.517	0.000	7800385H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.166	4.166	0.000	4290101H	0.5000	0.5000	
2	4.658	4.658	0.000	5901794H	0.5000	0.5000	
2	5.291	5.291	0.000	8801608H	0.5000	0.5000	
2	6.233	6.233	0.000	4598107H	0.5000	0.5000	
2	6.981	6.981	0.000	4691167H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
10 PCB-1268							
1	9.661	9.661	0.000	49629948H	0.5000	0.5000	
1	10.035	10.035	0.000	40418267H	0.5000	0.5000	
1	10.590	10.590	0.000	18489243H	0.5000	0.5000	
1	11.011	11.011	0.000	137668115H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	11.217	11.217	0.000	30460209H	0.5000	0.5000	
2	11.284	11.284	0.000	24718851H	0.5000	0.5000	
2	11.641	11.641	0.000	24376702H	0.5000	0.5000	
2	12.464	12.464	0.000	78641530H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

GCAR4268CALL4_00001 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429003.D

Injection Date: 29-Apr-2015 07:08:54 Instrument ID: CHGC10

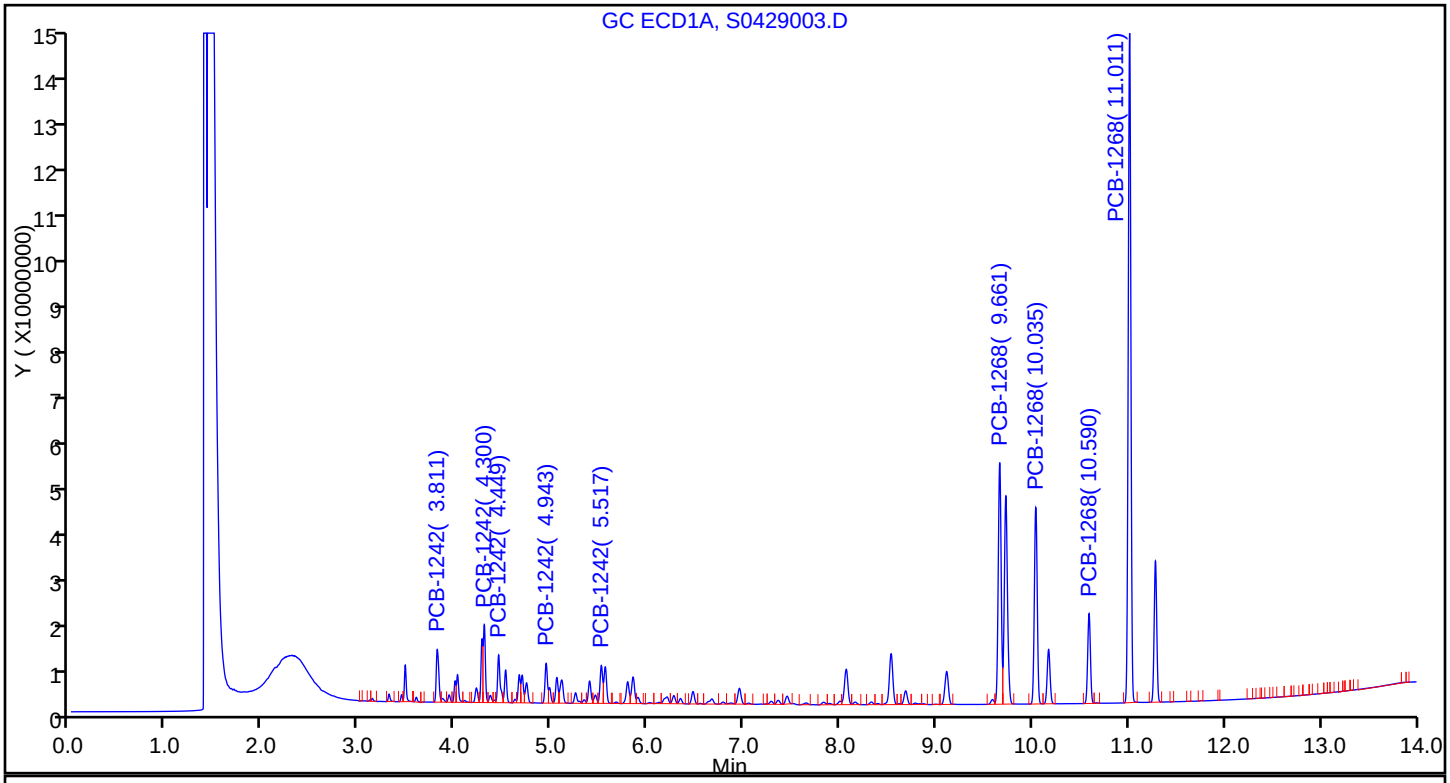
Lims ID: IC

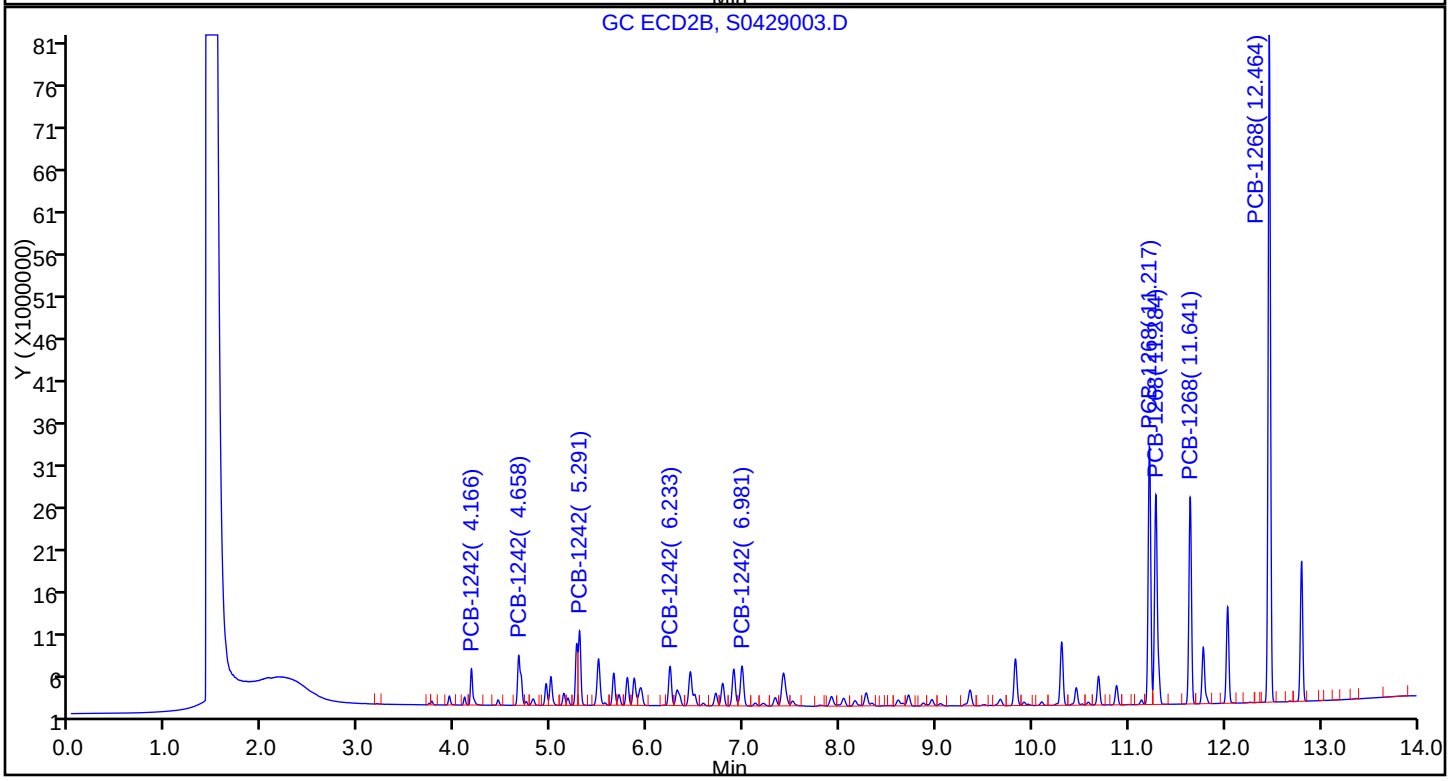
Client ID:

Operator ID: 402331 ALS Bottle#: 3 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:08 Calibration End Date: 04/29/2015 07:08 Calibration ID: 23621

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/3	S0429003.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	4.166										4.116 - 4.216	4.166
PCB-1242 Peak 2	4.658										4.608 - 4.708	4.658
PCB-1242 Peak 3	5.291										5.241 - 5.341	5.291
PCB-1242 Peak 4	6.233										6.183 - 6.283	6.233
PCB-1242 Peak 5	6.981										6.931 - 7.031	6.981
PCB-1268 Peak 1	11.217										11.167 - 11.267	11.217
PCB-1268 Peak 2	11.284										11.234 - 11.334	11.284
PCB-1268 Peak 3	11.641										11.591 - 11.691	11.641
PCB-1268 Peak 4	12.464										12.414 - 12.514	12.464

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:08 Calibration End Date: 04/29/2015 07:08 Calibration ID: 23621

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/3	S0429003.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	8580202				Ave		8580202.00						20.0			
PCB-1242 Peak 2	11803588				Ave		11803588.0						20.0			
PCB-1242 Peak 3	17603216				Ave		17603216.0						20.0			
PCB-1242 Peak 4	9196214				Ave		9196214.00						20.0			
PCB-1242 Peak 5	9382334				Ave		9382334.00						20.0			
PCB-1268 Peak 1	60920418				Ave		60920418.0						20.0			
PCB-1268 Peak 2	49437702				Ave		49437702.0						20.0			
PCB-1268 Peak 3	48753404				Ave		48753404.0						20.0			
PCB-1268 Peak 4	157283060				Ave		157283060						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:08 Calibration End Date: 04/29/2015 07:08 Calibration ID: 23621

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/3	S0429003.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	4290101					0.500				
PCB-1242 Peak 2	Ave	5901794					0.500				
PCB-1242 Peak 3	Ave	8801608					0.500				
PCB-1242 Peak 4	Ave	4598107					0.500				
PCB-1242 Peak 5	Ave	4691167					0.500				
PCB-1268 Peak 1	Ave	30460209					0.500				
PCB-1268 Peak 2	Ave	24718851					0.500				
PCB-1268 Peak 3	Ave	24376702					0.500				
PCB-1268 Peak 4	Ave	78641530					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429003.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2015 07:08:54 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-003
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub24

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:20 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:27:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
5 PCB-1242							
1	3.811	3.811	0.000	10845565H	0.5000	0.5000	
1	4.300	4.300	0.000	16036774H	0.5000	0.5000	
1	4.449	4.449	0.000	9822431H	0.5000	0.5000	
1	4.943	4.943	0.000	8198021H	0.5000	0.5000	
1	5.517	5.517	0.000	7800385H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.166	4.166	0.000	4290101H	0.5000	0.5000	
2	4.658	4.658	0.000	5901794H	0.5000	0.5000	
2	5.291	5.291	0.000	8801608H	0.5000	0.5000	
2	6.233	6.233	0.000	4598107H	0.5000	0.5000	
2	6.981	6.981	0.000	4691167H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
10 PCB-1268							
1	9.661	9.661	0.000	49629948H	0.5000	0.5000	
1	10.035	10.035	0.000	40418267H	0.5000	0.5000	
1	10.590	10.590	0.000	18489243H	0.5000	0.5000	
1	11.011	11.011	0.000	137668115H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	11.217	11.217	0.000	30460209H	0.5000	0.5000	
2	11.284	11.284	0.000	24718851H	0.5000	0.5000	
2	11.641	11.641	0.000	24376702H	0.5000	0.5000	
2	12.464	12.464	0.000	78641530H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

GCAR4268CALL4_00001 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429003.D

Injection Date: 29-Apr-2015 07:08:54 Instrument ID: CHGC10

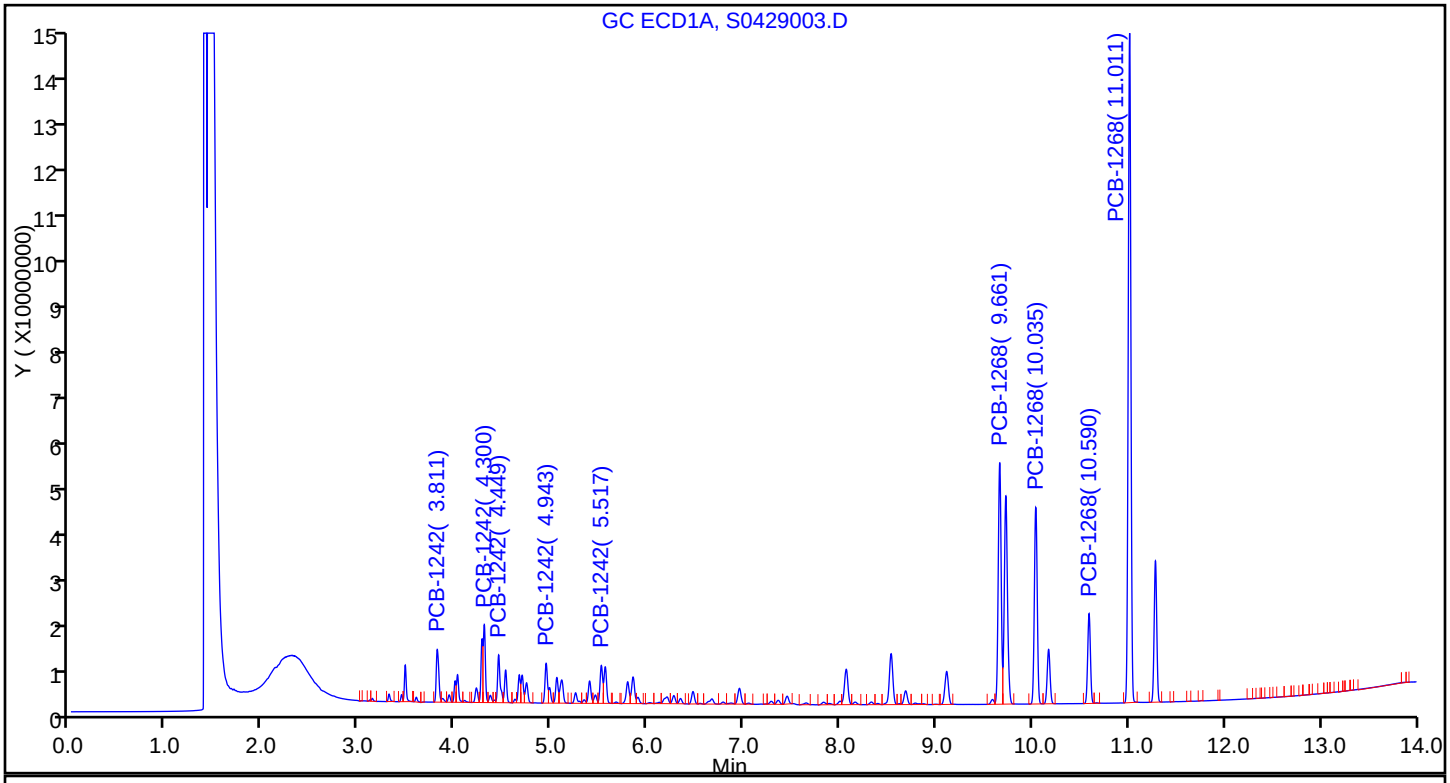
Lims ID: IC

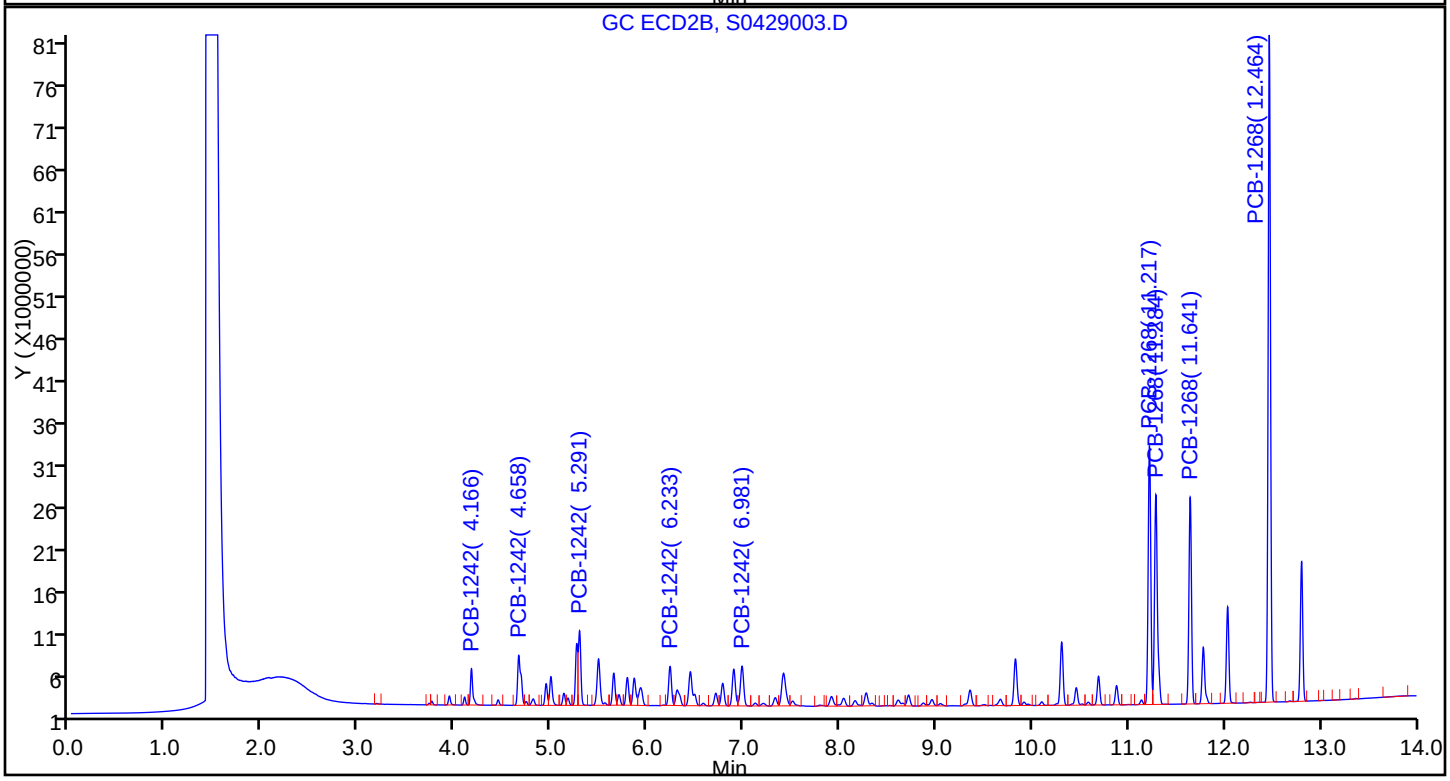
Client ID:

Operator ID: 402331 ALS Bottle#: 3 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:27 Calibration End Date: 04/29/2015 07:27 Calibration ID: 23626

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/4	S0429004.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	3.809										3.759 - 3.859	3.809
PCB-1248 Peak 2	4.298										4.248 - 4.348	4.298
PCB-1248 Peak 3	4.942										4.892 - 4.992	4.942
PCB-1248 Peak 4	5.515										5.465 - 5.565	5.515
PCB-1248 Peak 5	5.556										5.506 - 5.606	5.556

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:27 Calibration End Date: 04/29/2015 07:27 Calibration ID: 23626

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/4	S0429004.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	12730694				Ave		12730694.0						20.0			
PCB-1248 Peak 2	19137656				Ave		19137656.0						20.0			
PCB-1248 Peak 3	26189192				Ave		26189192.0						20.0			
PCB-1248 Peak 4	27322148				Ave		27322148.0						20.0			
PCB-1248 Peak 5	22945258				Ave		22945258.0						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:27 Calibration End Date: 04/29/2015 07:27 Calibration ID: 23626

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/4	S0429004.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	6365347					0.500				
PCB-1248 Peak 2	Ave	9568828					0.500				
PCB-1248 Peak 3	Ave	13094596					0.500				
PCB-1248 Peak 4	Ave	13661074					0.500				
PCB-1248 Peak 5	Ave	11472629					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429004.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2015 07:27:40 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-004
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub3

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:18 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:29:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1248							
1	3.809	3.809	0.000	6365347H	0.5000	0.5000	
1	4.298	4.298	0.000	9568828H	0.5000	0.5000	
1	4.942	4.942	0.000	13094596H	0.5000	0.5000	
1	5.515	5.515	0.000	13661074H	0.5000	0.5000	
1	5.556	5.556	0.000	11472629H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.656	4.656	0.000	3665161H	0.5000	0.5000	
2	5.786	5.786	0.000	5938053H	0.5000	0.5000	
2	6.230	6.230	0.000	7360301H	0.5000	0.5000	
2	6.977	6.977	0.000	7796546H	0.5000	0.5000	
2	7.410	7.410	0.000	5663626H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

GCAR1248CALL4_00010 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429004.D

Injection Date: 29-Apr-2015 07:27:40 Instrument ID: CHGC10

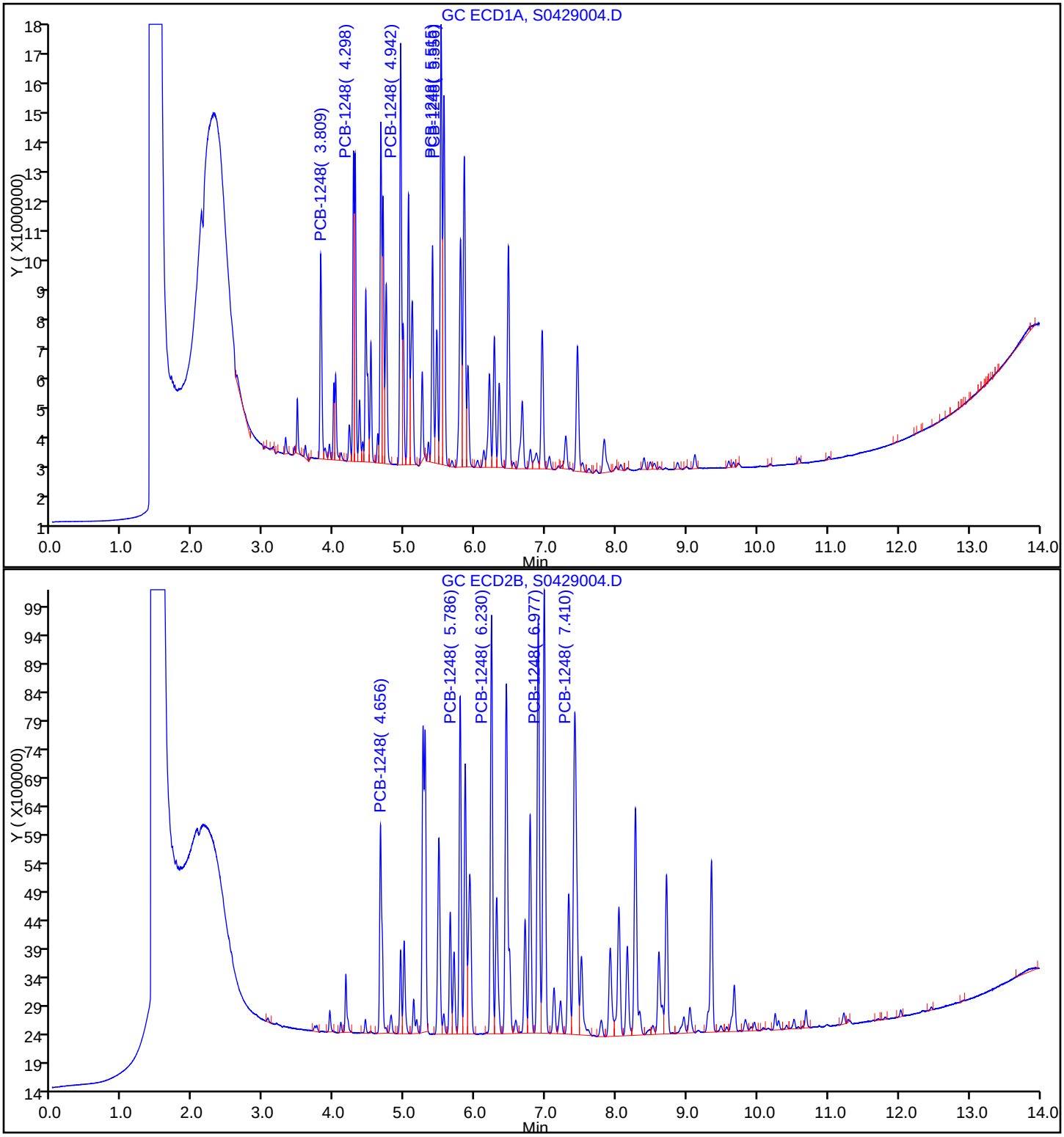
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:27 Calibration End Date: 04/29/2015 07:27 Calibration ID: 23627

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/4	S0429004.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	4.656										4.606 - 4.706	4.656
PCB-1248 Peak 2	5.786										5.736 - 5.836	5.786
PCB-1248 Peak 3	6.230										6.180 - 6.280	6.230
PCB-1248 Peak 4	6.977										6.927 - 7.027	6.977
PCB-1248 Peak 5	7.410										7.360 - 7.460	7.410

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:27 Calibration End Date: 04/29/2015 07:27 Calibration ID: 23627

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/4	S0429004.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	7330322				Ave		7330322.00						20.0			
PCB-1248 Peak 2	11876106				Ave		11876106.0						20.0			
PCB-1248 Peak 3	14720602				Ave		14720602.0						20.0			
PCB-1248 Peak 4	15593092				Ave		15593092.0						20.0			
PCB-1248 Peak 5	11327252				Ave		11327252.0						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:27 Calibration End Date: 04/29/2015 07:27 Calibration ID: 23627

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/4	S0429004.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	3665161					0.500				
PCB-1248 Peak 2	Ave	5938053					0.500				
PCB-1248 Peak 3	Ave	7360301					0.500				
PCB-1248 Peak 4	Ave	7796546					0.500				
PCB-1248 Peak 5	Ave	5663626					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429004.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2015 07:27:40 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-004
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub3

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:18 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:29:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1248							
1	3.809	3.809	0.000	6365347H	0.5000	0.5000	
1	4.298	4.298	0.000	9568828H	0.5000	0.5000	
1	4.942	4.942	0.000	13094596H	0.5000	0.5000	
1	5.515	5.515	0.000	13661074H	0.5000	0.5000	
1	5.556	5.556	0.000	11472629H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.656	4.656	0.000	3665161H	0.5000	0.5000	
2	5.786	5.786	0.000	5938053H	0.5000	0.5000	
2	6.230	6.230	0.000	7360301H	0.5000	0.5000	
2	6.977	6.977	0.000	7796546H	0.5000	0.5000	
2	7.410	7.410	0.000	5663626H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

GCAR1248CALL4_00010 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429004.D

Injection Date: 29-Apr-2015 07:27:40 Instrument ID: CHGC10

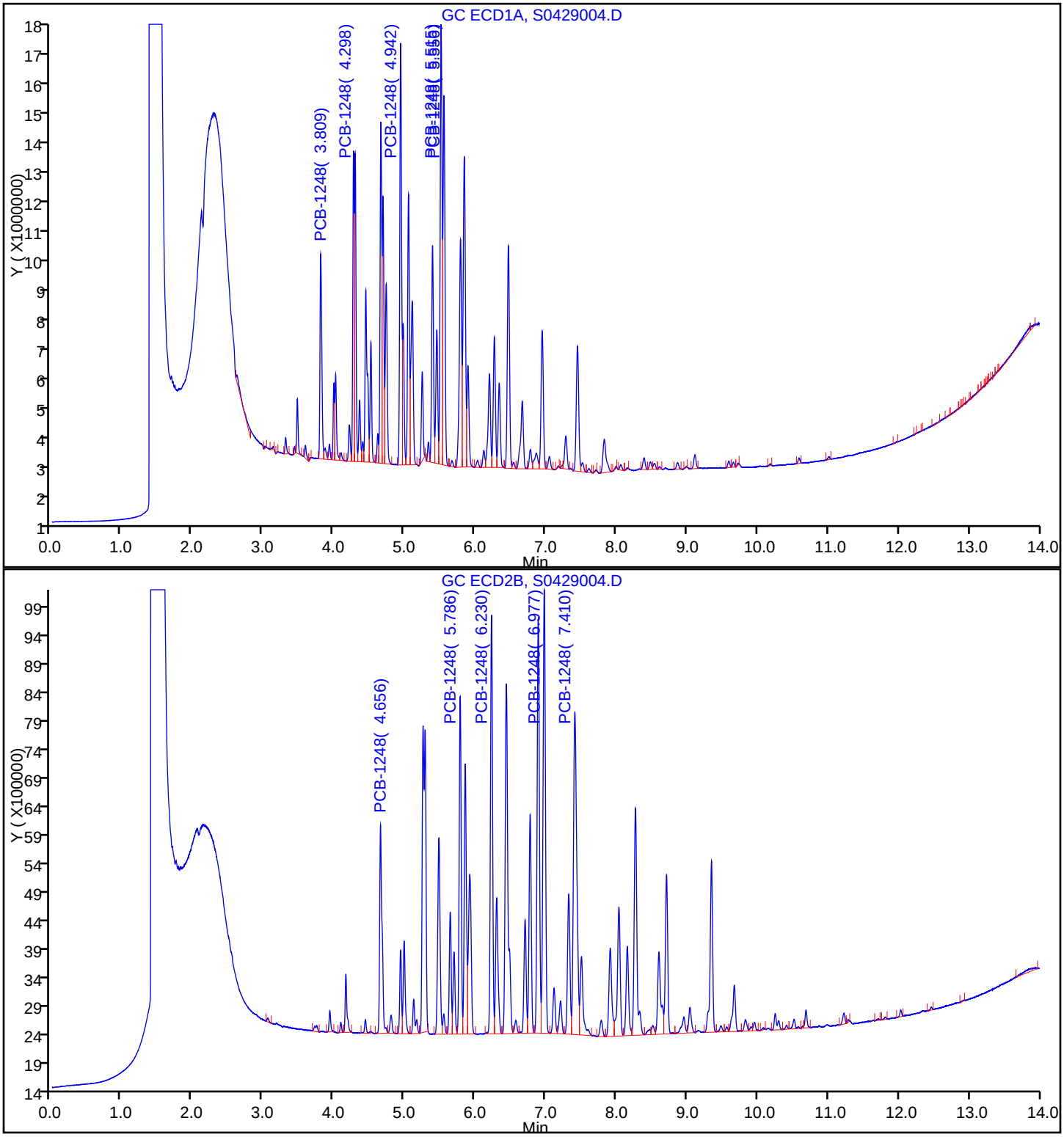
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:46 Calibration End Date: 04/29/2015 09:39 Calibration ID: 23632

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/5	S0429005.D
Level 2	IC 180-139955/6	S0429006.D
Level 3	IC 180-139955/7	S0429007.D
Level 4	ICRT 180-139955/8	S0429008.D
Level 5	IC 180-139955/9	S0429009.D
Level 6	IC 180-139955/10	S0429010.D
Level 7	IC 180-139955/11	S0429011.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	3.477	3.478	3.478	3.478	3.478	3.480	3.481				3.428 - 3.528	3.479
PCB-1016 Peak 2	3.810	3.811	3.811	3.810	3.810	3.812	3.813				3.760 - 3.860	3.811
PCB-1016 Peak 3	4.299	4.300	4.300	4.300	4.299	4.301	4.302				4.250 - 4.350	4.300
PCB-1016 Peak 4	4.449	4.449	4.449	4.448	4.449	4.450	4.451				4.398 - 4.498	4.449
PCB-1016 Peak 5	4.944	4.943	4.943	4.943	4.943	4.944	4.945				4.893 - 4.993	4.944
PCB-1260 Peak 1	6.784	6.782	6.782	6.780	6.782	6.783	6.785				6.730 - 6.830	6.783
PCB-1260 Peak 2	7.283	7.285	7.282	7.281	7.283	7.284	7.285				7.231 - 7.331	7.283
PCB-1260 Peak 3	8.540	8.538	8.541	8.538	8.539	8.541	8.543				8.488 - 8.588	8.540
PCB-1260 Peak 4	9.115	9.113	9.115	9.114	9.114	9.115	9.117				9.064 - 9.164	9.115
PCB-1260 Peak 5	9.595	9.594	9.595	9.594	9.594	9.596	9.597				9.544 - 9.644	9.595
Tetrachloro-m-xylene (Surr)	3.168	3.168	3.168	3.168	3.169	3.171	3.172				3.118 - 3.218	3.169
DCB Decachlorobiphenyl (Surr)	11.280	11.280	11.281	11.280	11.280	11.281	11.283				11.210 - 11.350	11.281

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:46 Calibration End Date: 04/29/2015 09:39 Calibration ID: 23632

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/5	S0429005.D
Level 2	IC 180-139955/6	S0429006.D
Level 3	IC 180-139955/7	S0429007.D
Level 4	ICRT 180-139955/8	S0429008.D
Level 5	IC 180-139955/9	S0429009.D
Level 6	IC 180-139955/10	S0429010.D
Level 7	IC 180-139955/11	S0429011.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	17720100 18970329	17643040 16315438	18882255 16032132	17982316	Ave		17649372.9				6.5		20.0			
PCB-1016 Peak 2	28323600 27490112	27422400 23505746	27926395 22888007	26269488	Ave		26260821.1				8.4		20.0			
PCB-1016 Peak 3	36384000 41615108	38087240 35731282	40264560 34954107	39255034	Ave		38041618.6				6.5		20.0			
PCB-1016 Peak 4	19625900 24762557	23234040 21437398	24256155 21046708	23455732	Ave		22545498.5				8.3		20.0			
PCB-1016 Peak 5	18622800 20653123	18822220 17884045	20243260 17623907	19592188	Ave		19063077.6				6.0		20.0			
PCB-1260 Peak 1	32370100 34358935	32559860 29372303	33402890 28660761	32696160	Ave		31917287.0				6.6		20.0			
PCB-1260 Peak 2	46529200 48257536	46439760 41606292	48235415 41161832	46603188	Ave		45547603.1				6.5		20.0			
PCB-1260 Peak 3	27073600 31386203	29612140 27002669	31739665 27440761	30821786	Ave		29296689.2				7.2		20.0			
PCB-1260 Peak 4	68226300 75034620	70076540 64301245	73491795 63276569	74008862	Ave		69773704.3				6.8		20.0			
PCB-1260 Peak 5	34243500 39771768	37451860 34977342	39322285 34621093	38936242	Ave		37046298.5				6.5		20.0			
Tetrachloro-m-xylene (Surr)	756550000 1157840840	1067341600 1056816870	1101214300 961357665	1094893560	Ave		1028002119				13.0		20.0			
DCB Decachlorobiphenyl (Surr)	762546000 813720960	794483200 714336500	817171200 718940900	784862520	Ave		772294469				5.5		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:46 Calibration End Date: 04/29/2015 09:39 Calibration ID: 23632

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/5	S0429005.D
Level 2	IC 180-139955/6	S0429006.D
Level 3	IC 180-139955/7	S0429007.D
Level 4	ICRT 180-139955/8	S0429008.D
Level 5	IC 180-139955/9	S0429009.D
Level 6	IC 180-139955/10	S0429010.D
Level 7	IC 180-139955/11	S0429011.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	177201 32630876	882152 64128529	3776451	8991158	18970329	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	283236 47011492	1371120 91552027	5585279	13134744	27490112	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	363840 71462563	1904362 139816426	8052912	19627517	41615108	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	196259 42874795	1161702 84186833	4851231	11727866	24762557	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	186228 35768090	941111 70495629	4048652	9796094	20653123	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	323701 58744606	1627993 114643045	6680578	16348080	34358935	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	465292 83212583	2321988 164647326	9647083	23301594	48257536	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	270736 54005338	1480607 109763045	6347933	15410893	31386203	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	682263 128602489	3503827 253106275	14698359	37004431	75034620	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	342435 69954683	1872593 138484373	7864457	19468121	39771768	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
Tetrachloro-m-xylene (Surr)	Ave	378275 105681687	2668354 192271533	11012143	27372339	57892042	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl (Surr)	Ave	381273 71433650	1986208 143788180	8171712	19621563	40686048	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Apr-2015 07:46:25 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-005
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:16 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.168	3.168	0.000	378275H	0.000500	0.000368	
2	3.641	3.641	0.000	384876H	0.000500	0.000490	
						RPD = 28.40	
3 PCB-1016							
1	3.477	3.478	-0.001	177201H	0.0100	0.0100	
1	3.810	3.810	0.000	283236H	0.0100	0.0108	
1	4.299	4.300	-0.001	363840H	0.0100	0.009564	
1	4.449	4.448	0.001	196259H	0.0100	0.008705	
1	4.944	4.943	0.001	186228H	0.0100	0.009769	
		Average of Peak Amounts =				0.009773	
2	4.167	4.165	0.002	108896H	0.0100	0.0105	
2	4.661	4.658	0.003	148917H	0.0100	0.0103	
2	5.261	5.290	-0.029	180214H	0.0100	0.008615	
2	5.489	5.488	0.001	151474H	0.0100	0.0115	
2	6.234	6.230	0.004	115859H	0.0100	0.0104	
		Average of Peak Amounts =				0.0102	
						RPD = 4.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.784	6.780	0.004	323701H	0.0100	0.0101	
1	7.283	7.281	0.002	465292H	0.0100	0.0102	
1	8.540	8.538	0.002	270736H	0.0100	0.009241	
1	9.115	9.114	0.001	682263H	0.0100	0.009778	
1	9.595	9.594	0.001	342435H	0.0100	0.009243	
		Average of Peak Amounts =				0.009724	
2	8.652	8.650	0.002	201008H	0.0100	0.0102	
2	9.044	9.040	0.004	252323H	0.0100	0.0105	
2	10.299	10.299	0.000	222853H	0.0100	0.0104	
2	10.689	10.687	0.002	504487H	0.0100	0.0107	
2	11.229	11.226	0.003	270760H	0.0100	0.0102	
		Average of Peak Amounts =				0.0104	
						RPD = 6.71	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.280	11.280	0.000	381273H	0.000500	0.000494	
2	12.799	12.800	-0.001	245350H	0.000500	0.000547	
						RPD = 10.25	

Reagents:

GCAR1660CALL1_00015 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429005.D

Injection Date: 29-Apr-2015 07:46:25 Instrument ID: CHGC10

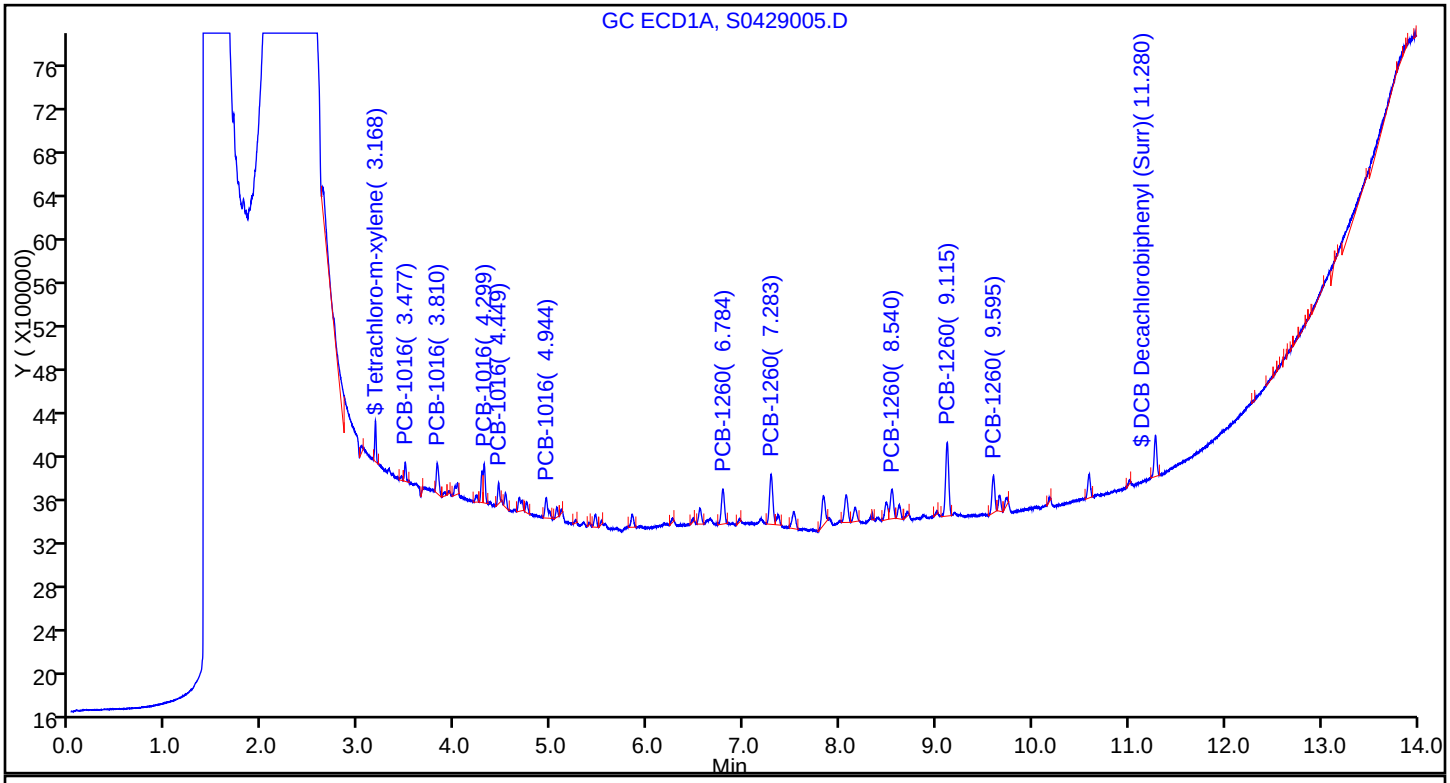
Lims ID: IC

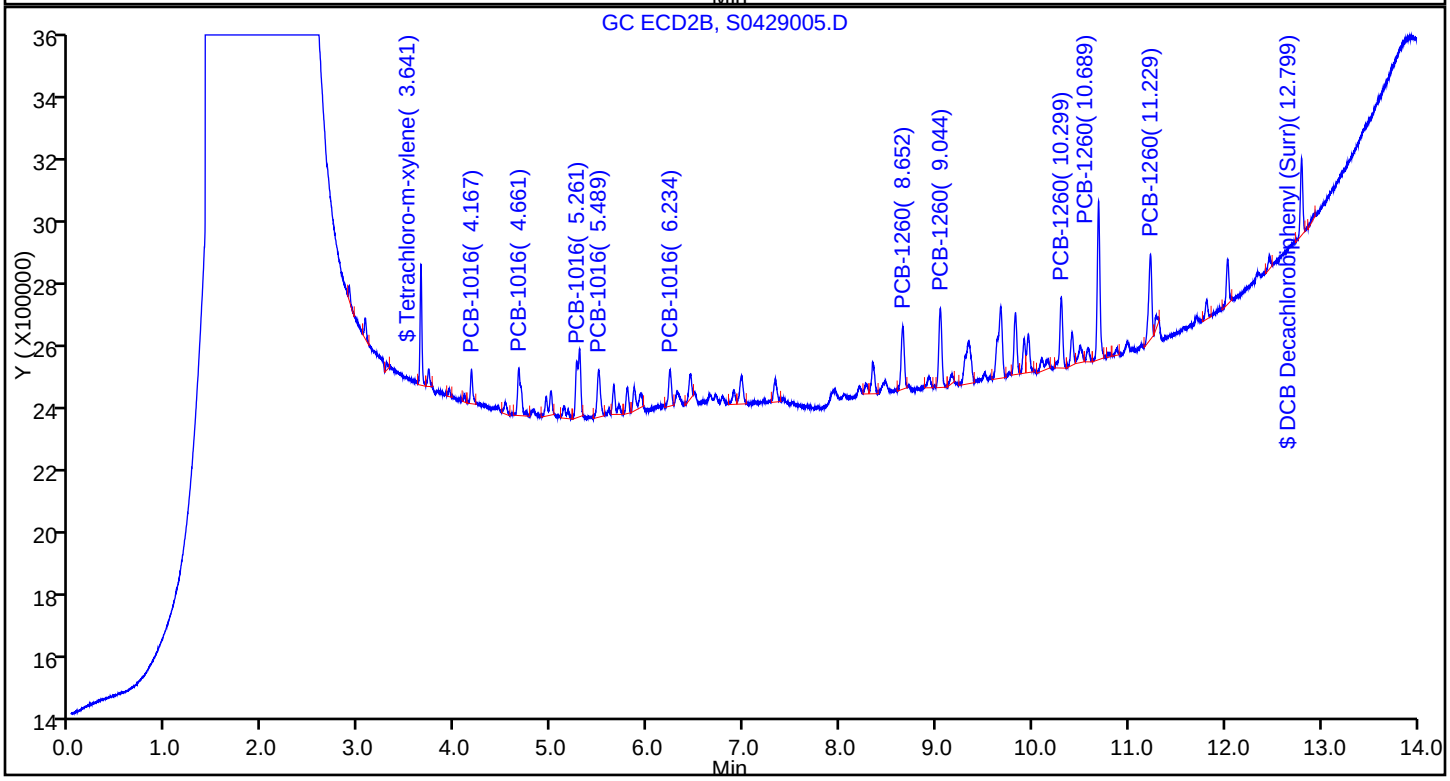
Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Apr-2015 08:05:11 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-006
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:13 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.168	3.168	0.000	2668354H	0.002500	0.002596	
2	3.641	3.641	0.000	2058101H	0.002500	0.002619	
						RPD = 0.89	
3 PCB-1016							
1	3.478	3.478	0.000	882152H	0.0500	0.0500	
1	3.811	3.810	0.001	1371120H	0.0500	0.0522	
1	4.300	4.300	0.000	1904362H	0.0500	0.0501	
1	4.449	4.448	0.001	1161702H	0.0500	0.0515	
1	4.943	4.943	0.000	941111H	0.0500	0.0494	
		Average of Peak Amounts =				0.0506	
2	4.167	4.165	0.002	559475H	0.0500	0.0537	
2	4.658	4.658	0.000	792094H	0.0500	0.0549	
2	5.291	5.290	0.001	1150733H	0.0500	0.0550	
2	5.488	5.488	0.000	694016H	0.0500	0.0525	
2	6.231	6.230	0.001	586703H	0.0500	0.0525	
		Average of Peak Amounts =				0.0537	
						RPD = 5.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.782	6.780	0.002	1627993H	0.0500	0.0510	
1	7.285	7.281	0.004	2321988H	0.0500	0.0510	
1	8.538	8.538	0.000	1480607H	0.0500	0.0505	
1	9.113	9.114	-0.001	3503827H	0.0500	0.0502	
1	9.594	9.594	0.000	1872593H	0.0500	0.0505	
		Average of Peak Amounts =				0.0507	
2	8.651	8.650	0.001	1029652H	0.0500	0.0523	
2	9.043	9.040	0.003	1307698H	0.0500	0.0545	
2	10.301	10.299	0.002	1153648H	0.0500	0.0538	
2	10.689	10.687	0.002	2501317H	0.0500	0.0532	
2	11.228	11.226	0.002	1376889H	0.0500	0.0516	
		Average of Peak Amounts =				0.0531	
						RPD = 4.68	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.280	11.280	0.000	1986208H	0.002500	0.002572	
2	12.800	12.800	0.000	1198838H	0.002500	0.002673	
						RPD = 3.85	

Reagents:

GCAR1660CALL2_00010 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:13 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429006.D

Injection Date: 29-Apr-2015 08:05:11 Instrument ID: CHGC10

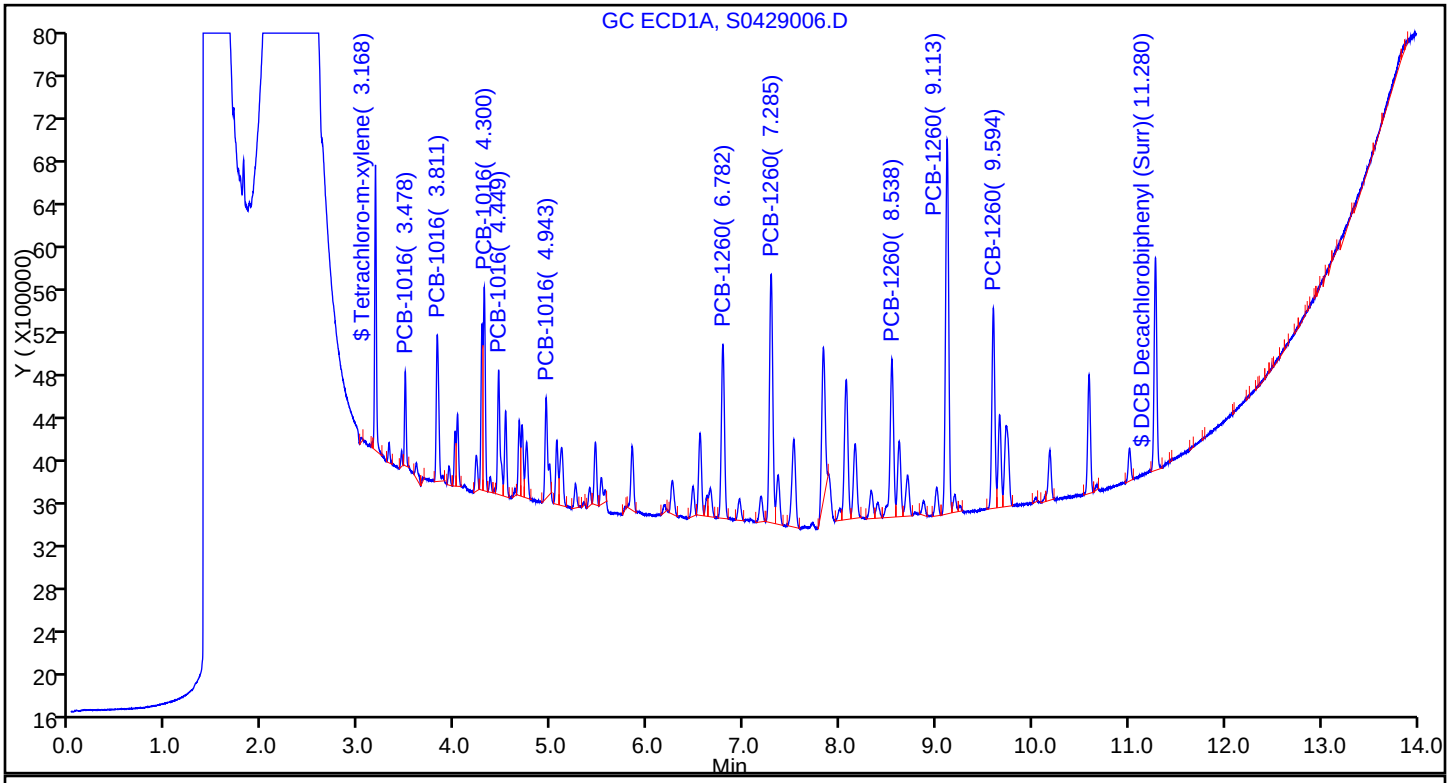
Lims ID: IC

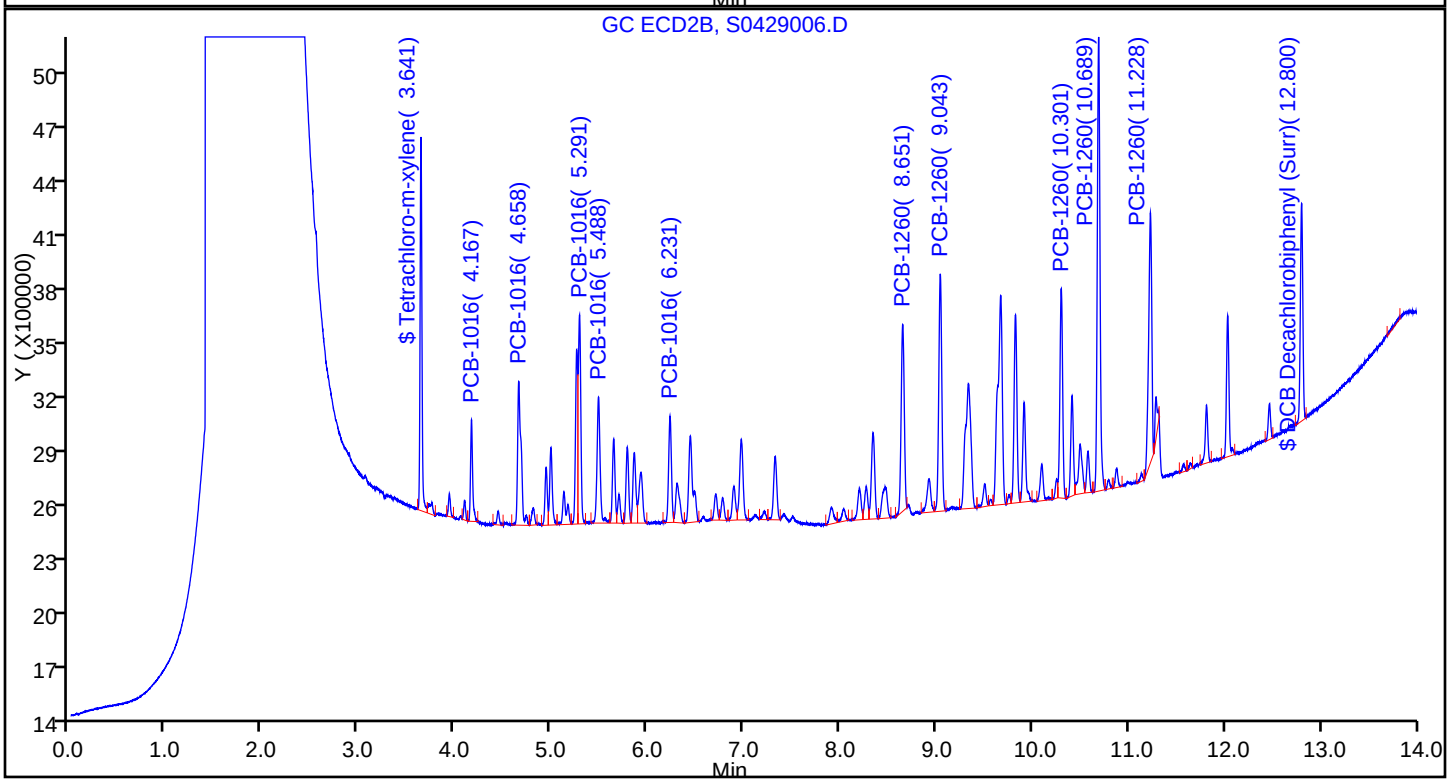
Client ID:

Operator ID: 402331 ALS Bottle#: 6 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429007.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 29-Apr-2015 08:23:57 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-007
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:11 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:46:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.168	3.168	0.000	11012143H	0.0100	0.0107	
2	3.641	3.641	0.000	8213035H	0.0100	0.0105	
						RPD = 2.47	
3 PCB-1016							
1	3.478	3.478	0.000	3776451H	0.2000	0.2140	
1	3.811	3.810	0.001	5585279H	0.2000	0.2127	
1	4.300	4.300	0.000	8052912H	0.2000	0.2117	
1	4.449	4.448	0.001	4851231H	0.2000	0.2152	
1	4.943	4.943	0.000	4048652H	0.2000	0.2124	
		Average of Peak Amounts =				0.2132	
2	4.166	4.165	0.001	2229762H	0.2000	0.2142	
2	4.657	4.658	-0.001	3113179H	0.2000	0.2157	
2	5.290	5.290	0.000	4567300H	0.2000	0.2183	
2	5.487	5.488	-0.001	2766530H	0.2000	0.2092	
2	6.230	6.230	0.000	2385096H	0.2000	0.2136	
		Average of Peak Amounts =				0.2142	
						RPD = 0.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.782	6.780	0.002	6680578H	0.2000	0.2093	
1	7.282	7.281	0.001	9647083H	0.2000	0.2118	
1	8.541	8.538	0.003	6347933H	0.2000	0.2167	
1	9.115	9.114	0.001	14698359H	0.2000	0.2107	
1	9.595	9.594	0.001	7864457H	0.2000	0.2123	
		Average of Peak Amounts =				0.2121	
2	8.652	8.650	0.002	4213889H	0.2000	0.2141	
2	9.042	9.040	0.002	5122963H	0.2000	0.2135	
2	10.301	10.299	0.002	4562326H	0.2000	0.2127	
2	10.688	10.687	0.001	9861221H	0.2000	0.2096	
2	11.228	11.226	0.002	5684840H	0.2000	0.2132	
		Average of Peak Amounts =				0.2126	
						RPD = 0.23	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.281	11.280	0.001	8171712H	0.0100	0.0106	
2	12.799	12.800	-0.001	4705387H	0.0100	0.0105	
						RPD = 0.86	

Reagents:

GCAR1660CALL3_00009 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429007.D

Injection Date: 29-Apr-2015 08:23:57 Instrument ID: CHGC10

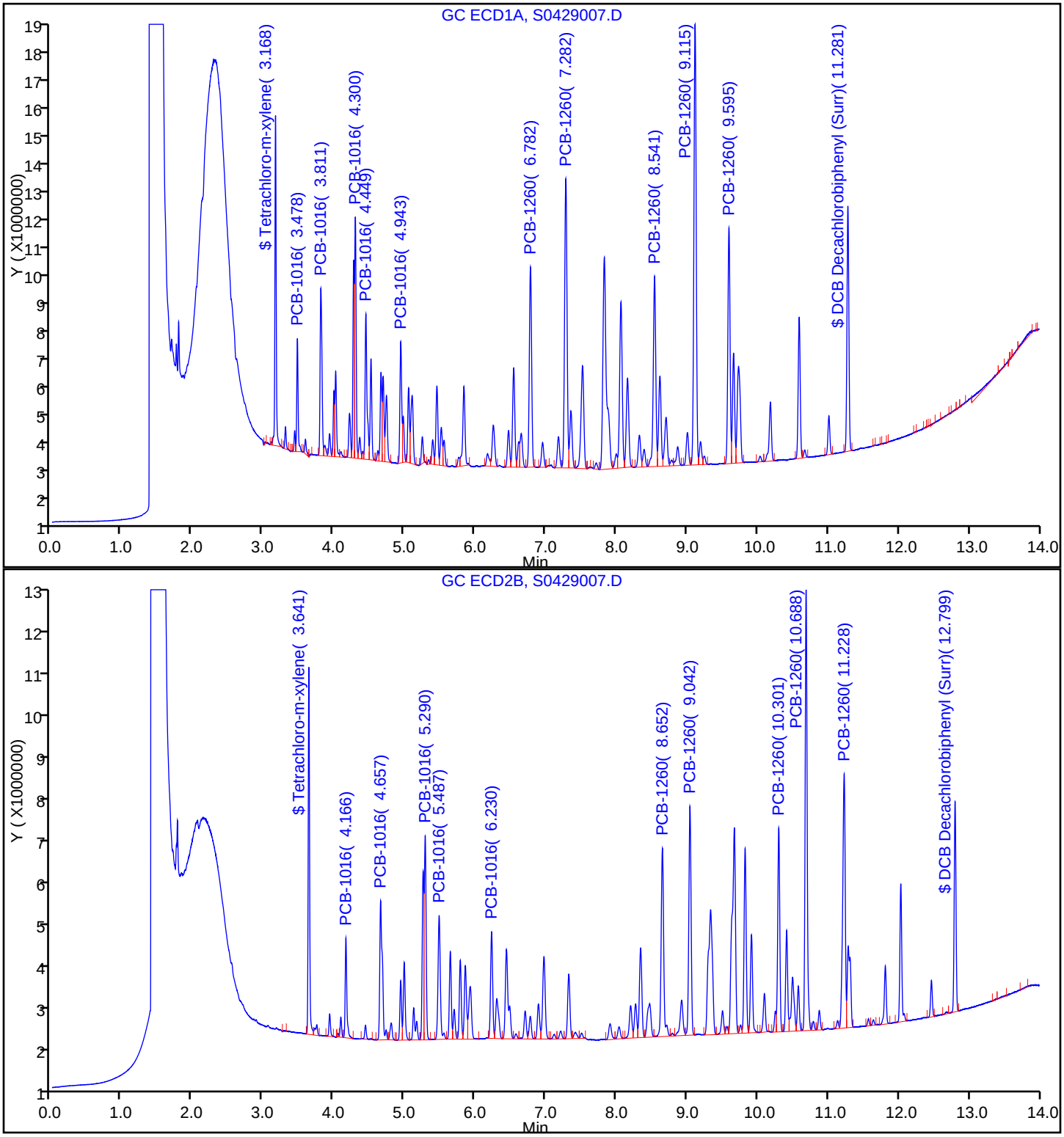
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 7 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429008.D
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 4
Inject. Date: 29-Apr-2015 08:42:42 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-008
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:08 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:36:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.168	3.168	0.000	27372339H	0.0250	0.0266	
2	3.641	3.641	0.000	19563244H	0.0250	0.0249	
						RPD = 6.73	
3 PCB-1016							
1	3.478	3.478	0.000	8991158H	0.5000	0.5094	
1	3.810	3.810	0.000	13134744H	0.5000	0.5002	
1	4.300	4.300	0.000	19627517H	0.5000	0.5159	
1	4.448	4.448	0.000	11727866H	0.5000	0.5202	
1	4.943	4.943	0.000	9796094H	0.5000	0.5139	
		Average of Peak Amounts =				0.5119	
2	4.165	4.165	0.000	5229681H	0.5000	0.5023	
2	4.658	4.658	0.000	7271484H	0.5000	0.5037	
2	5.290	5.290	0.000	10677522H	0.5000	0.5104	
2	5.488	5.488	0.000	6526485H	0.5000	0.4935	
2	6.230	6.230	0.000	5606289H	0.5000	0.5020	
		Average of Peak Amounts =				0.5024	
						RPD = 1.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							M
1	6.780	6.780	0.000	16348080H	0.5000	0.5122	M
1	7.281	7.281	0.000	23301594H	0.5000	0.5116	M
1	8.538	8.538	0.000	15410893H	0.5000	0.5260	M
1	9.114	9.114	0.000	37004431H	0.5000	0.5303	M
1	9.594	9.594	0.000	19468121H	0.5000	0.5255	M
		Average of Peak Amounts =				0.5211	
2	8.650	8.650	0.000	9998988H	0.5000	0.5081	
2	9.040	9.040	0.000	11899171H	0.5000	0.4960	
2	10.299	10.299	0.000	10623826H	0.5000	0.4952	
2	10.687	10.687	0.000	23332968H	0.5000	0.4960	
2	11.226	11.226	0.000	13472402H	0.5000	0.5053	
		Average of Peak Amounts =				0.5001	
						RPD = 4.12	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.280	11.280	0.000	19621563H	0.0250	0.0254	
2	12.800	12.800	0.000	11240293H	0.0250	0.0251	
						RPD = 1.37	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:08 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429008.D

Injection Date: 29-Apr-2015 08:42:42 Instrument ID: CHGC10

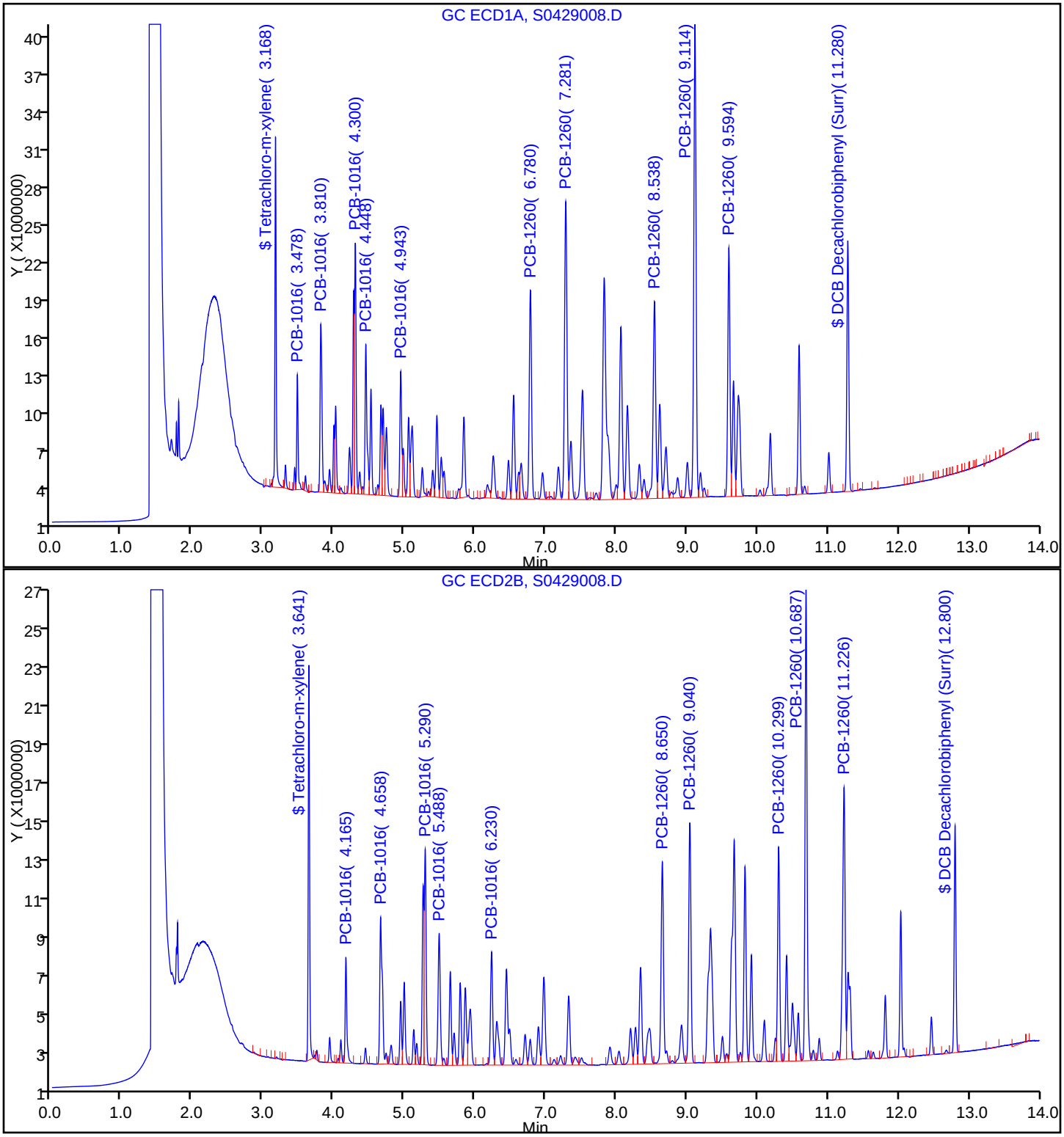
Lims ID: ICRT

Client ID:

Operator ID: 402331 ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



Report Date: 30-Apr-2015 05:50:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429008.D

Injection Date: 29-Apr-2015 08:42:42 Instrument ID: CHGC10

Lims ID: ICRT

Client ID:

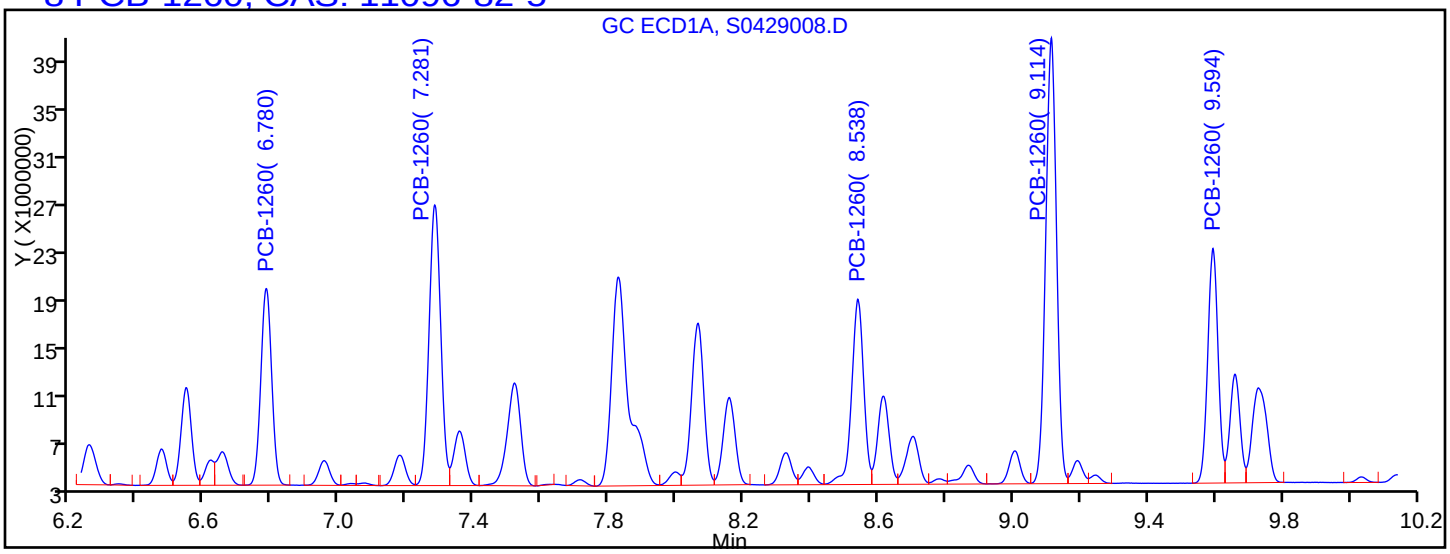
Operator ID: 402331 ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

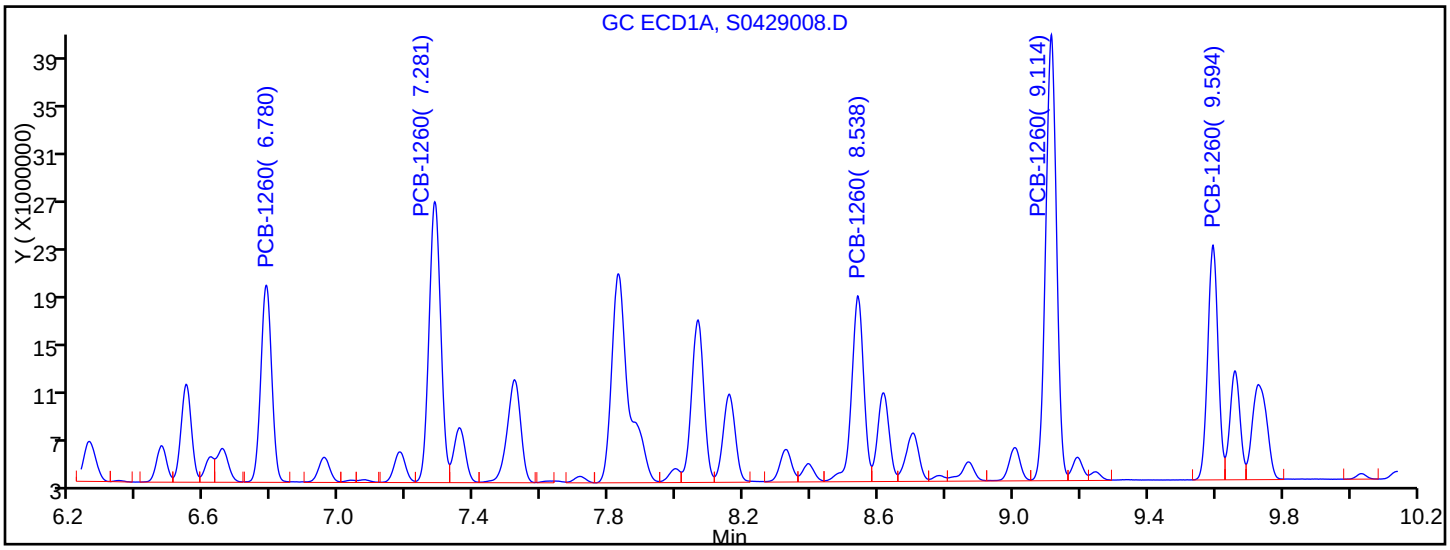
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 6.780	Response = 16306435	M
RT = 7.281	Response = 23273082	M
RT = 8.538	Response = 15373121	M
RT = 9.114	Response = 36977149	M
RT = 9.594	Response = 19457985	M



Manual Integration Results

RT = 6.780	Response = 16348080	M
RT = 7.281	Response = 23301594	M
RT = 8.538	Response = 15410893	M
RT = 9.114	Response = 37004431	M
RT = 9.594	Response = 19468121	M

Reviewer: oravecj, 30-Apr-2015 05:46:37

Audit Action: Assigned New Baseline

Audit Reason: Instrument noise

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 29-Apr-2015 09:01:29 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-009
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:05 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:46:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.169	3.168	0.001	57892042H	0.0500	0.0563	
2	3.641	3.641	0.000	42184153H	0.0500	0.0537	
						RPD = 4.79	
3 PCB-1016							
1	3.478	3.478	0.000	18970329H	1.00	1.07	
1	3.810	3.810	0.000	27490112H	1.00	1.05	
1	4.299	4.300	-0.001	41615108H	1.00	1.09	
1	4.449	4.448	0.001	24762557H	1.00	1.10	
1	4.943	4.943	0.000	20653123H	1.00	1.08	
		Average of Peak Amounts =				1.08	
2	4.166	4.165	0.001	10828276H	1.00	1.04	
2	4.658	4.658	0.000	14996424H	1.00	1.04	
2	5.289	5.290	-0.001	22561293H	1.00	1.08	
2	5.487	5.488	-0.001	13585785H	1.00	1.03	
2	6.230	6.230	0.000	11749982H	1.00	1.05	
		Average of Peak Amounts =				1.05	
						RPD = 3.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							M
1	6.782	6.780	0.002	34358935H	1.00	1.08	M
1	7.283	7.281	0.002	48257536H	1.00	1.06	M
1	8.539	8.538	0.001	31386203H	1.00	1.07	M
1	9.114	9.114	0.000	75034620H	1.00	1.08	M
1	9.594	9.594	0.000	39771768H	1.00	1.07	M
		Average of Peak Amounts =				1.07	
2	8.650	8.650	0.000	20580238H	1.00	1.05	M
2	9.042	9.040	0.002	24509240H	1.00	1.02	M
2	10.300	10.299	0.001	22002620H	1.00	1.03	M
2	10.688	10.687	0.001	48024479H	1.00	1.02	M
2	11.227	11.226	0.001	27814928H	1.00	1.04	M
		Average of Peak Amounts =				1.03	
						RPD = 3.79	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.280	11.280	0.000	40686048H	0.0500	0.0527	
2	12.799	12.800	-0.001	22418347H	0.0500	0.0500	
						RPD = 5.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL5_00010 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429009.D

Injection Date: 29-Apr-2015 09:01:29 Instrument ID: CHGC10

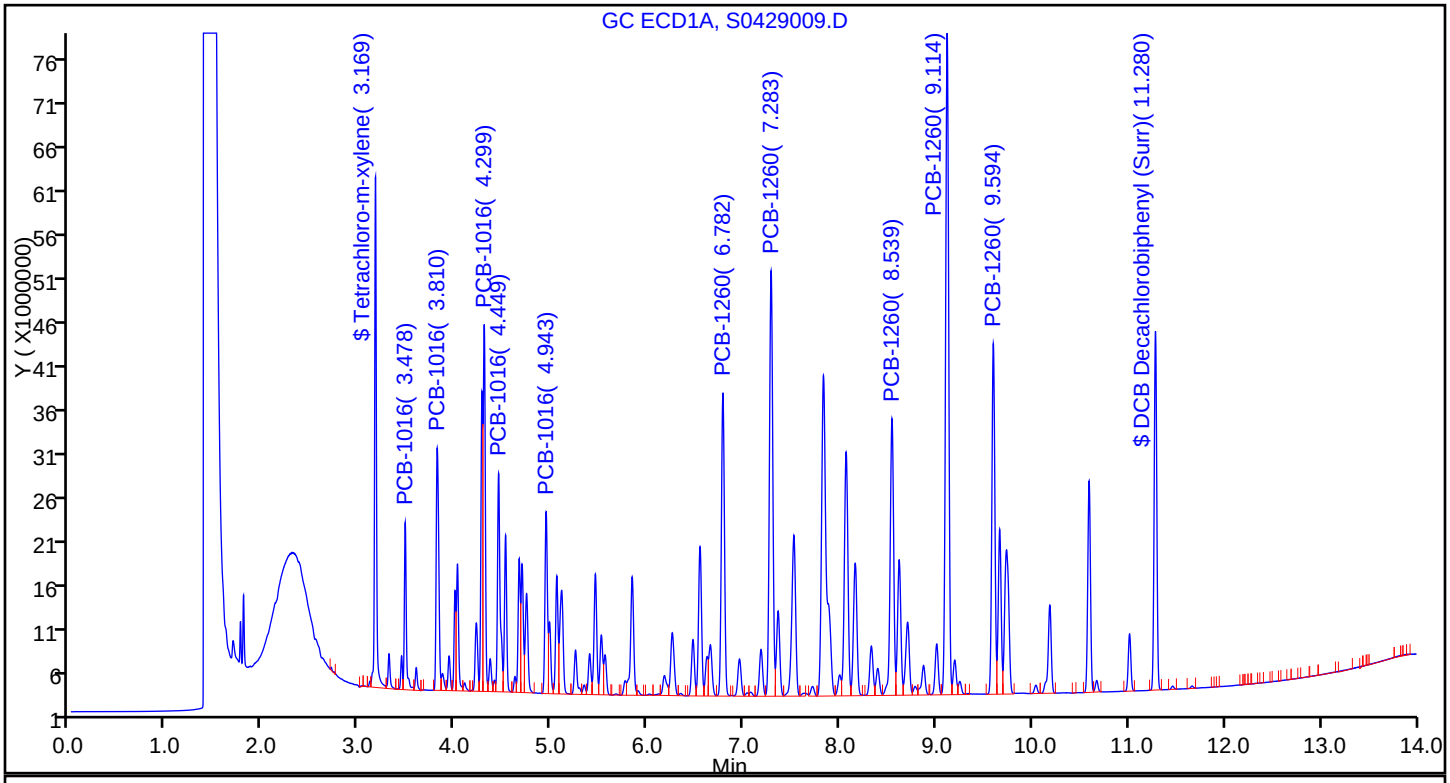
Lims ID: IC

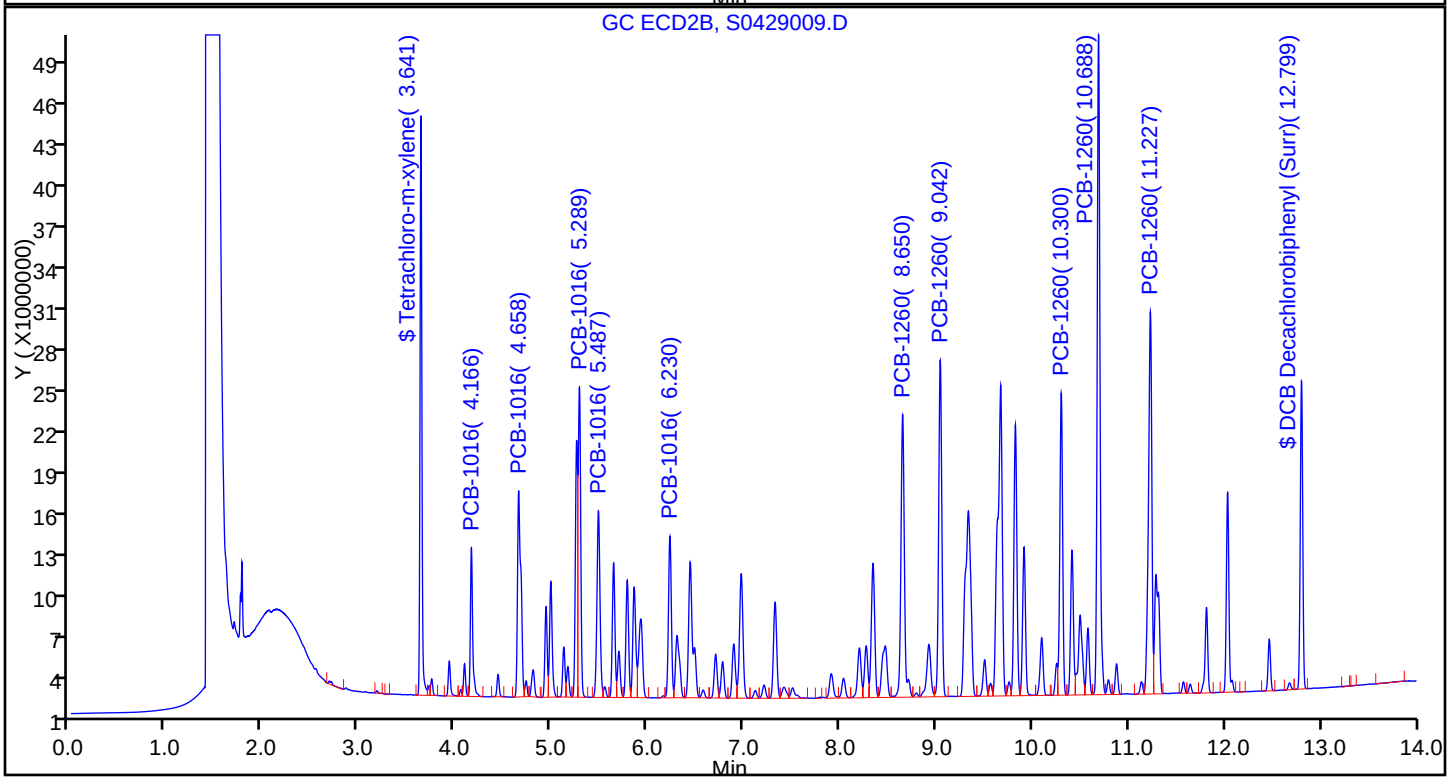
Client ID:

Operator ID: 402331 ALS Bottle#: 9 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





Report Date: 30-Apr-2015 05:50:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429009.D

Injection Date: 29-Apr-2015 09:01:29 Instrument ID: CHGC10

Lims ID: IC

Client ID:

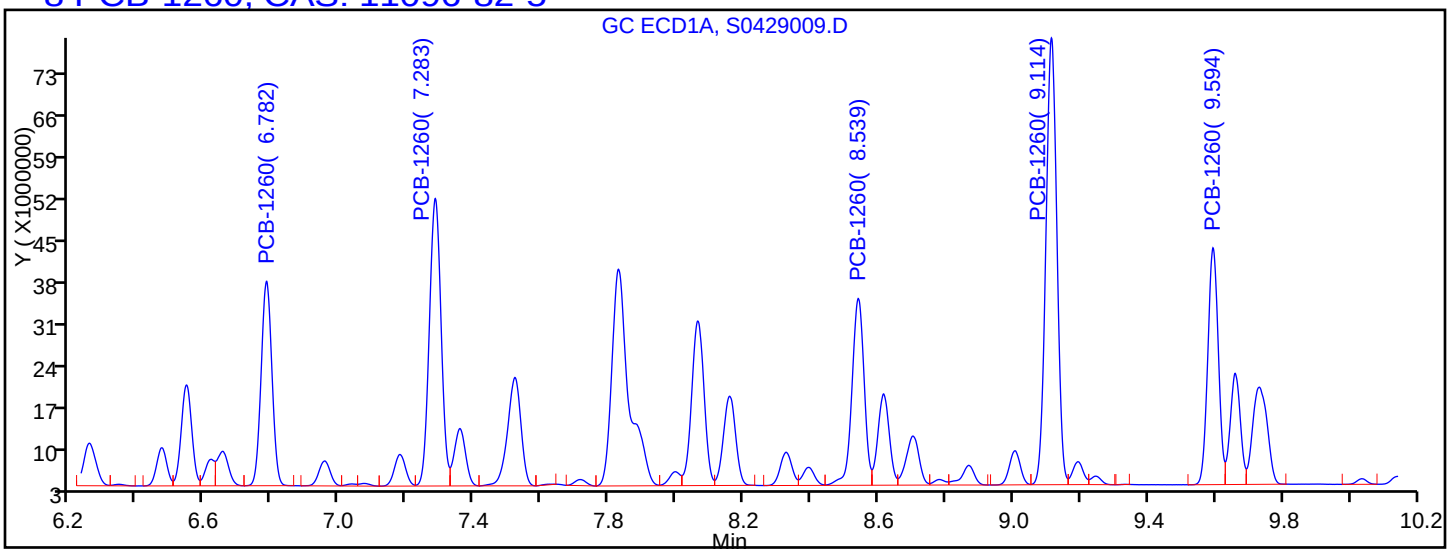
Operator ID: 402331 ALS Bottle#: 9 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

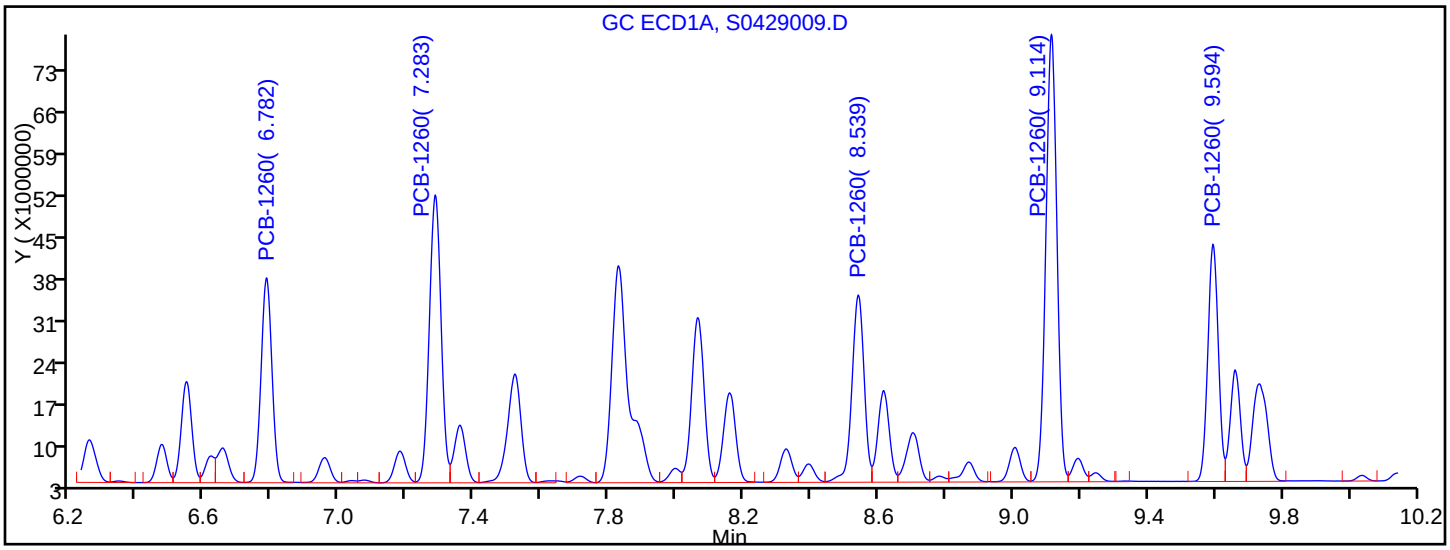
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 6.782	Response = 34296844	M
RT = 7.283	Response = 48228434	M
RT = 8.539	Response = 31336176	M
RT = 9.114	Response = 74955377	M
RT = 9.594	Response = 39737139	M



Manual Integration Results

RT = 6.782	Response = 34358935	M
RT = 7.283	Response = 48257536	M
RT = 8.539	Response = 31386203	M
RT = 9.114	Response = 75034620	M
RT = 9.594	Response = 39771768	M

Reviewer: oravecj, 30-Apr-2015 05:46:02

Audit Action: Assigned New Baseline

Audit Reason: Instrument noise

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Apr-2015 09:20:15 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-010
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:02 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:45:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.171	3.168	0.003	105681687H	0.1000	0.1028	
2	3.643	3.641	0.002	72743323H	0.1000	0.0926	
						RPD = 10.48	
3 PCB-1016							
1	3.480	3.478	0.002	32630876H	2.00	1.85	
1	3.812	3.810	0.002	47011492H	2.00	1.79	
1	4.301	4.300	0.001	71462563H	2.00	1.88	
1	4.450	4.448	0.002	42874795H	2.00	1.90	
1	4.944	4.943	0.001	35768090H	2.00	1.88	
		Average of Peak Amounts =				1.86	
2	4.167	4.165	0.002	18490036H	2.00	1.78	
2	4.659	4.658	0.001	25331413H	2.00	1.75	
2	5.292	5.290	0.002	38744170H	2.00	1.85	
2	5.487	5.488	-0.001	23336846H	2.00	1.76	
2	6.232	6.230	0.002	19992426H	2.00	1.79	
		Average of Peak Amounts =				1.79	
						RPD = 3.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							M
1	6.783	6.780	0.003	58744606H	2.00	1.84	
1	7.284	7.281	0.003	83212583H	2.00	1.83	M
1	8.541	8.538	0.003	54005338H	2.00	1.84	M
1	9.115	9.114	0.001	128602489H	2.00	1.84	M
1	9.596	9.594	0.002	69954683H	2.00	1.89	M
		Average of Peak Amounts =				1.85	
2	8.652	8.650	0.002	35336712H	2.00	1.80	M
2	9.042	9.040	0.002	42465793H	2.00	1.77	M
2	10.302	10.299	0.003	38234541H	2.00	1.78	M
2	10.689	10.687	0.002	83636131H	2.00	1.78	M
2	11.229	11.226	0.003	48483416H	2.00	1.82	
		Average of Peak Amounts =				1.79	
						RPD = 3.28	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.281	11.280	0.001	71433650H	0.1000	0.0925	
2	12.801	12.800	0.001	39024340H	0.1000	0.0870	
						RPD = 6.12	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL6_00008 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:02 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429010.D

Injection Date: 29-Apr-2015 09:20:15 Instrument ID: CHGC10

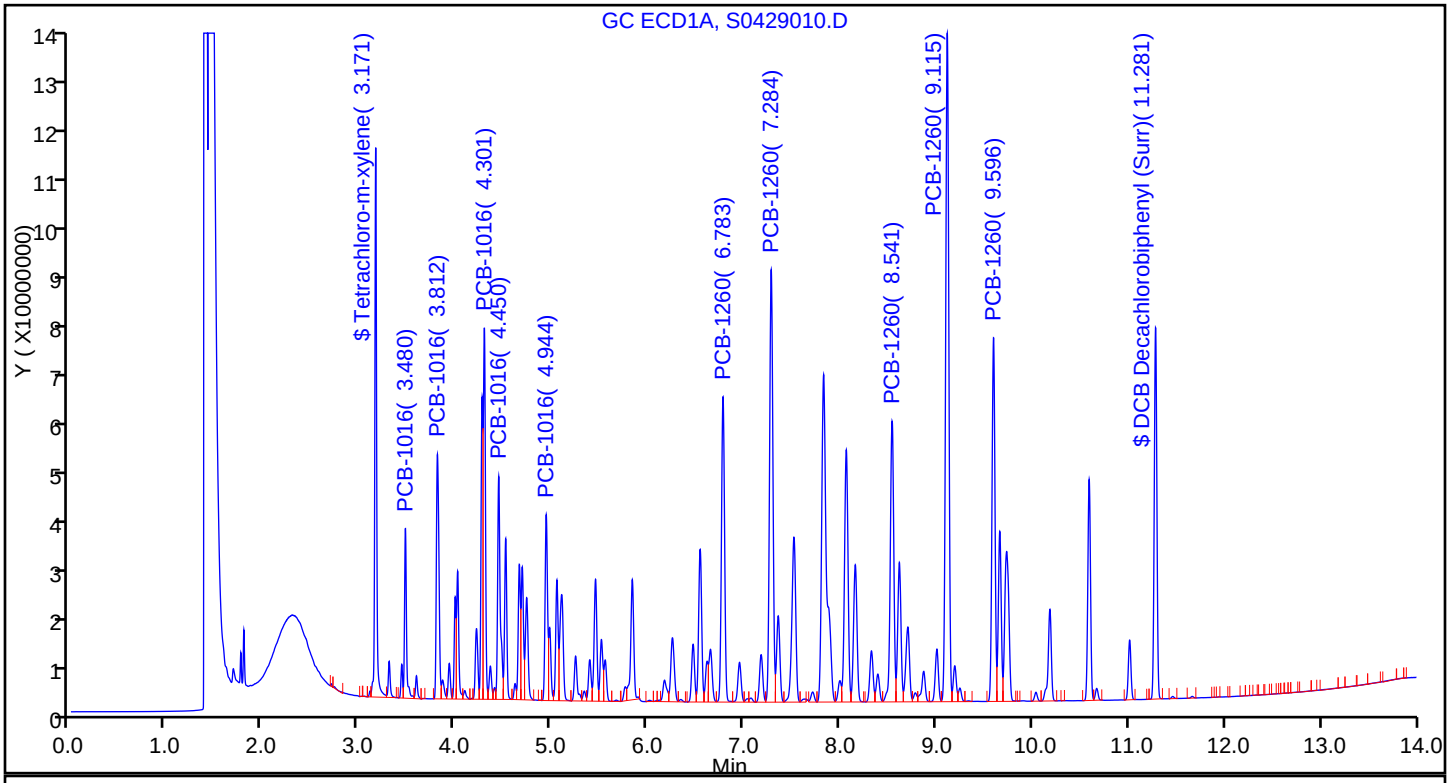
Lims ID: IC

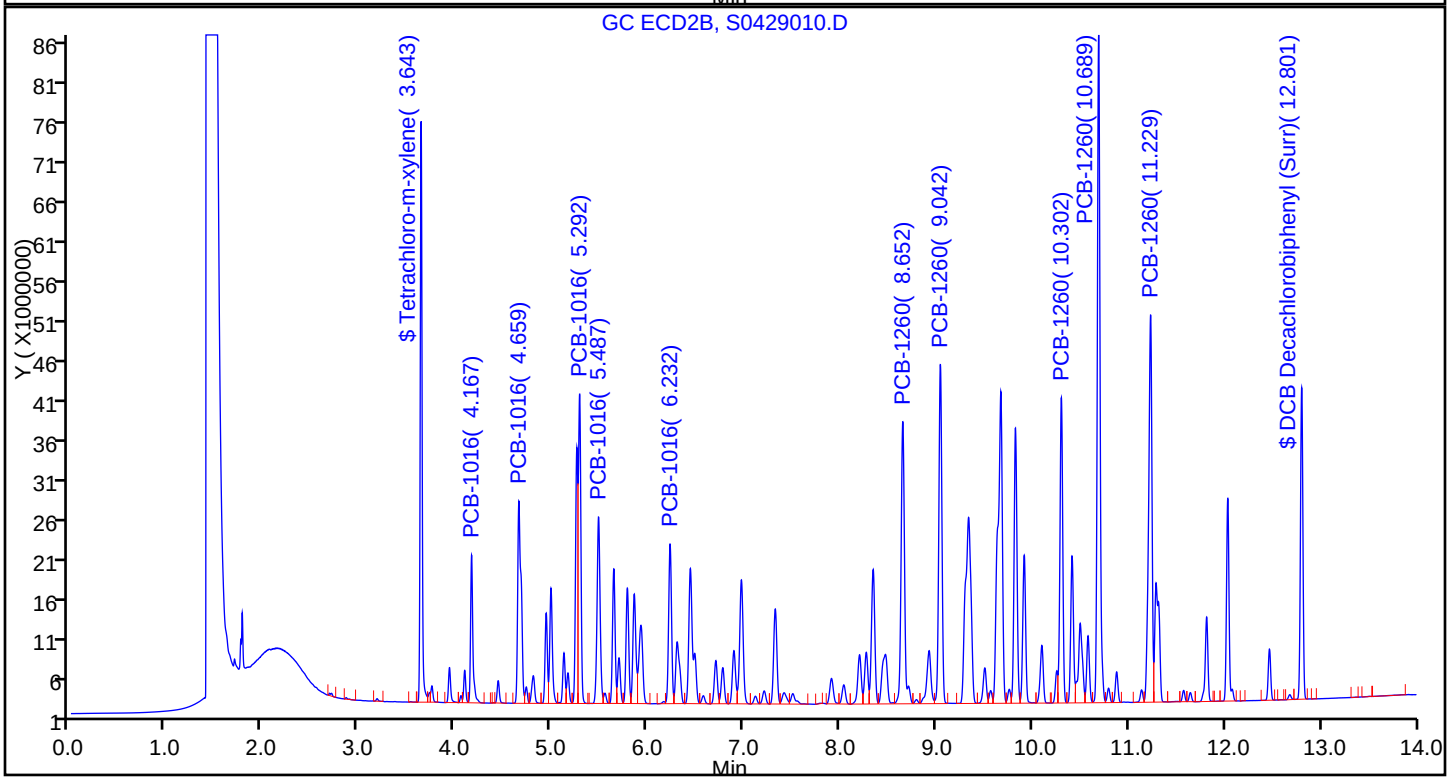
Client ID:

Operator ID: 402331 ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





Report Date: 30-Apr-2015 05:50:02 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429010.D

Injection Date: 29-Apr-2015 09:20:15 Instrument ID: CHGC10

Lims ID: IC

Client ID:

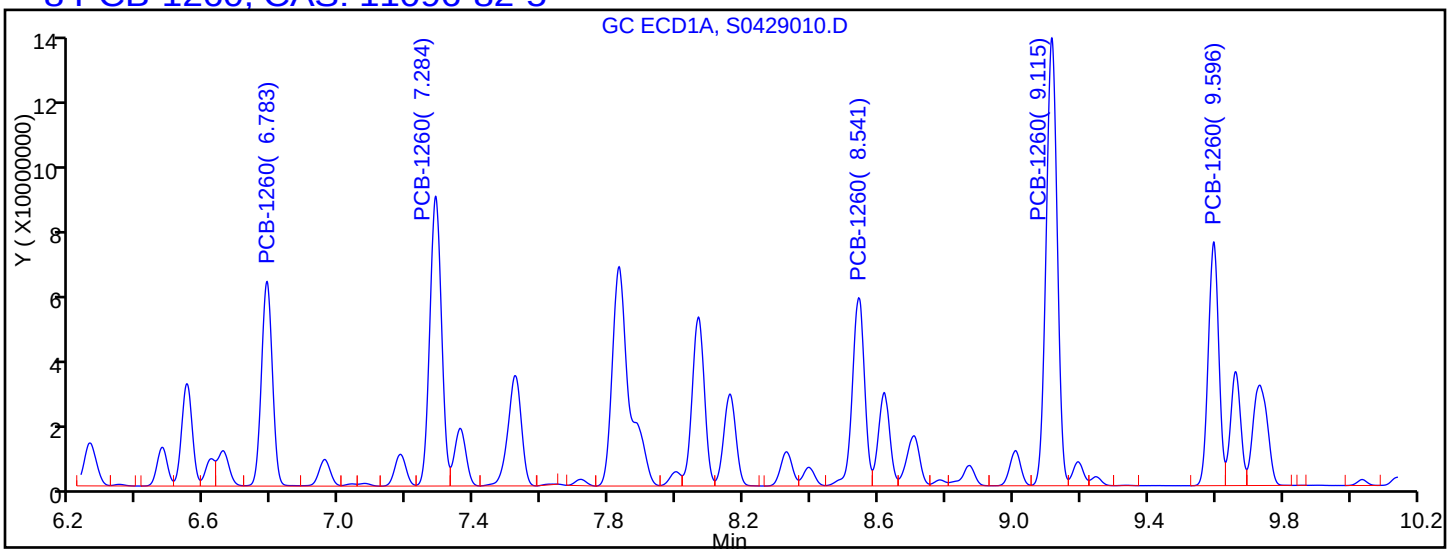
Operator ID: 402331 ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

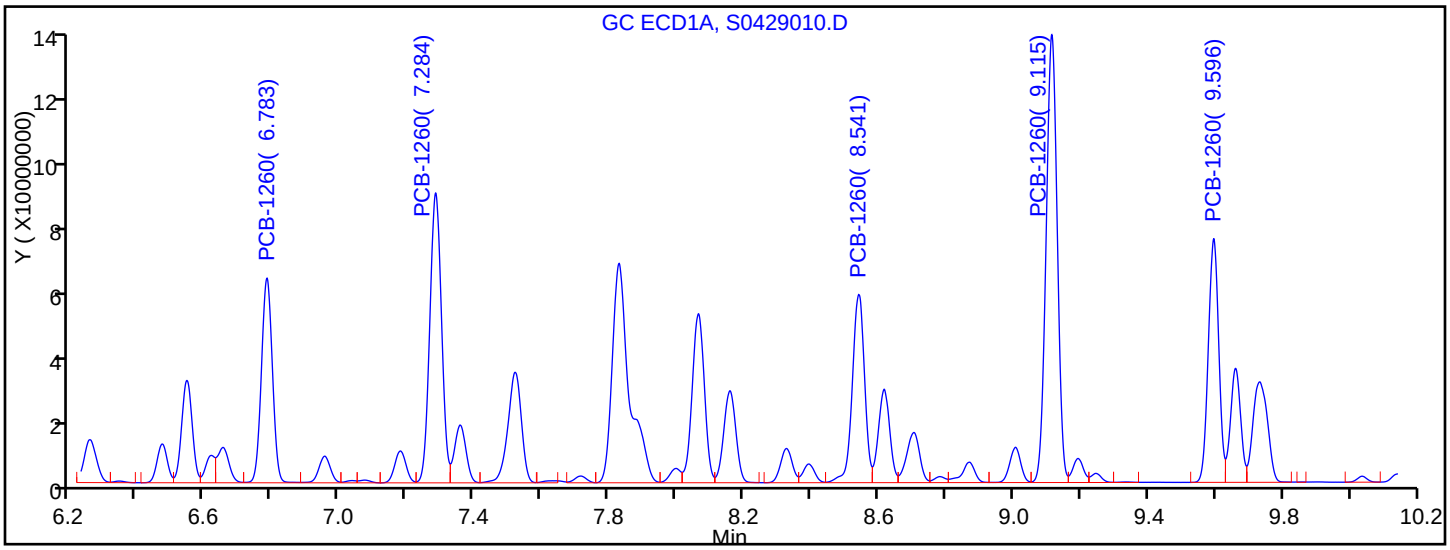
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 6.783	Response = 58744606	
RT = 7.284	Response = 83175579	M
RT = 8.541	Response = 53990816	M
RT = 9.115	Response = 128572322	M
RT = 9.596	Response = 69948554	M



Manual Integration Results

RT = 6.783	Response = 58744606	
RT = 7.284	Response = 83212583	M
RT = 8.541	Response = 54005338	M
RT = 9.115	Response = 128602489	M
RT = 9.596	Response = 69954683	M

Reviewer: oravecj, 30-Apr-2015 05:45:09

Audit Action: Assigned New Baseline

Audit Reason: Instrument noise

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 29-Apr-2015 09:39:01 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-011
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:49:57 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:44:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.172	3.168	0.004	192271533H	0.2000	0.1870	
2	3.644	3.641	0.003	146623906H	0.2000	0.1866	
						RPD = 0.25	
3 PCB-1016							
1	3.481	3.478	0.003	64128529H	4.00	3.63	
1	3.813	3.810	0.003	91552027H	4.00	3.49	
1	4.302	4.300	0.002	139816426H	4.00	3.68	
1	4.451	4.448	0.003	84186833H	4.00	3.73	
1	4.945	4.943	0.002	70495629H	4.00	3.70	
		Average of Peak Amounts =				3.65	
2	4.169	4.165	0.004	36481294H	4.00	3.50	
2	4.660	4.658	0.002	50176707H	4.00	3.48	
2	5.292	5.290	0.002	77094376H	4.00	3.69	
2	5.489	5.488	0.001	45658113H	4.00	3.45	
2	6.233	6.230	0.003	39882237H	4.00	3.57	
		Average of Peak Amounts =				3.54	
						RPD = 3.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							M
1	6.785	6.780	0.005	114643045H	4.00	3.59	M
1	7.285	7.281	0.004	164647326H	4.00	3.61	M
1	8.543	8.538	0.005	109763045H	4.00	3.75	M
1	9.117	9.114	0.003	253106275H	4.00	3.63	M
1	9.597	9.594	0.003	138484373H	4.00	3.74	
		Average of Peak Amounts =				3.66	
2	8.654	8.650	0.004	70993475H	4.00	3.61	M
2	9.045	9.040	0.005	85620056H	4.00	3.57	M
2	10.302	10.299	0.003	78505798H	4.00	3.66	M
2	10.690	10.687	0.003	171956506H	4.00	3.66	M
2	11.230	11.226	0.004	98444702H	4.00	3.69	
		Average of Peak Amounts =				3.64	
						RPD = 0.74	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.283	11.280	0.003	143788180H	0.2000	0.1862	
2	12.801	12.800	0.001	82140820H	0.2000	0.1831	
						RPD = 1.65	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL7_00009 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:49:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Injection Date: 29-Apr-2015 09:39:01 Instrument ID: CHGC10

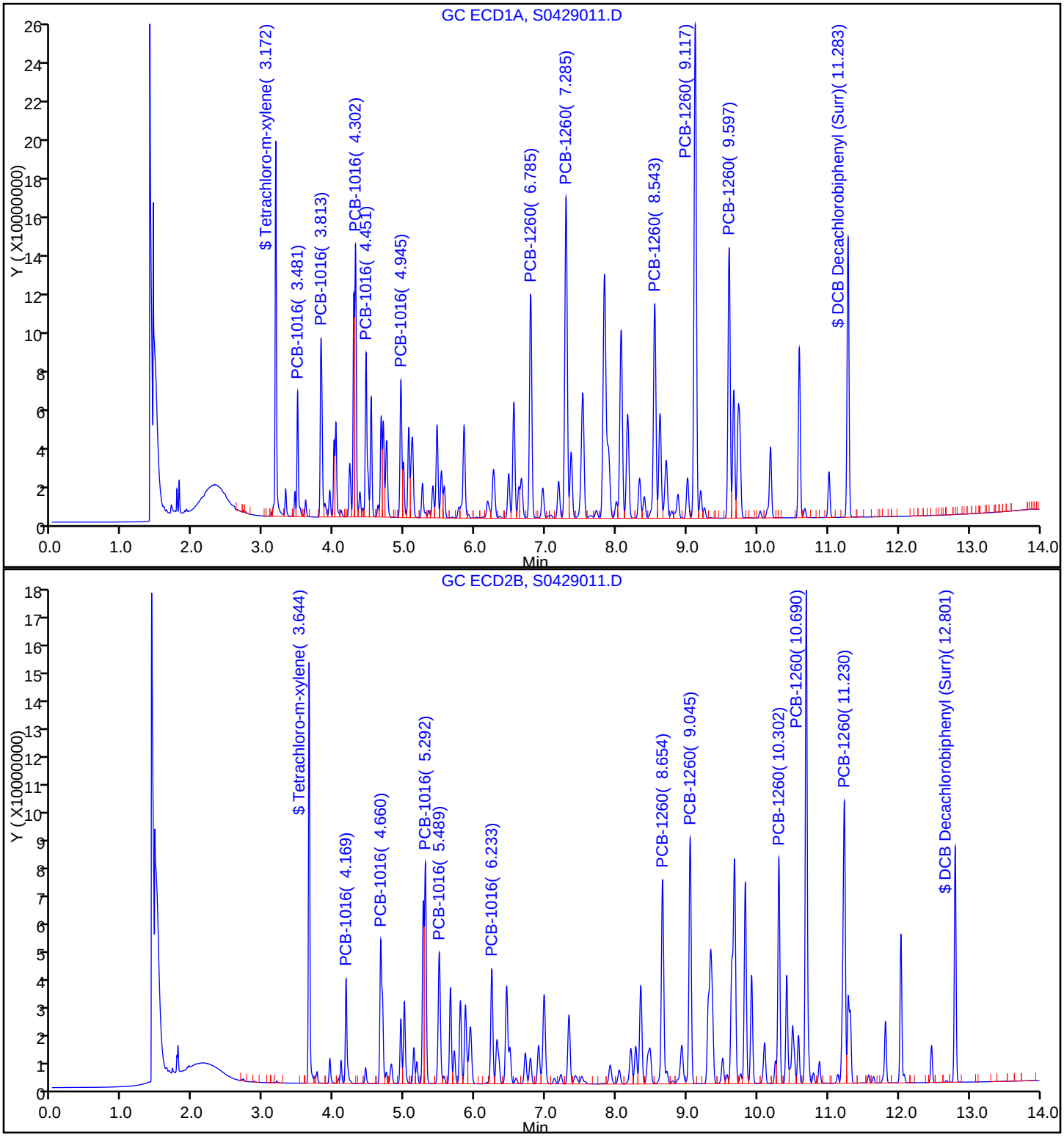
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



Report Date: 30-Apr-2015 05:49:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Injection Date: 29-Apr-2015 09:39:01 Instrument ID: CHGC10

Lims ID: IC

Client ID:

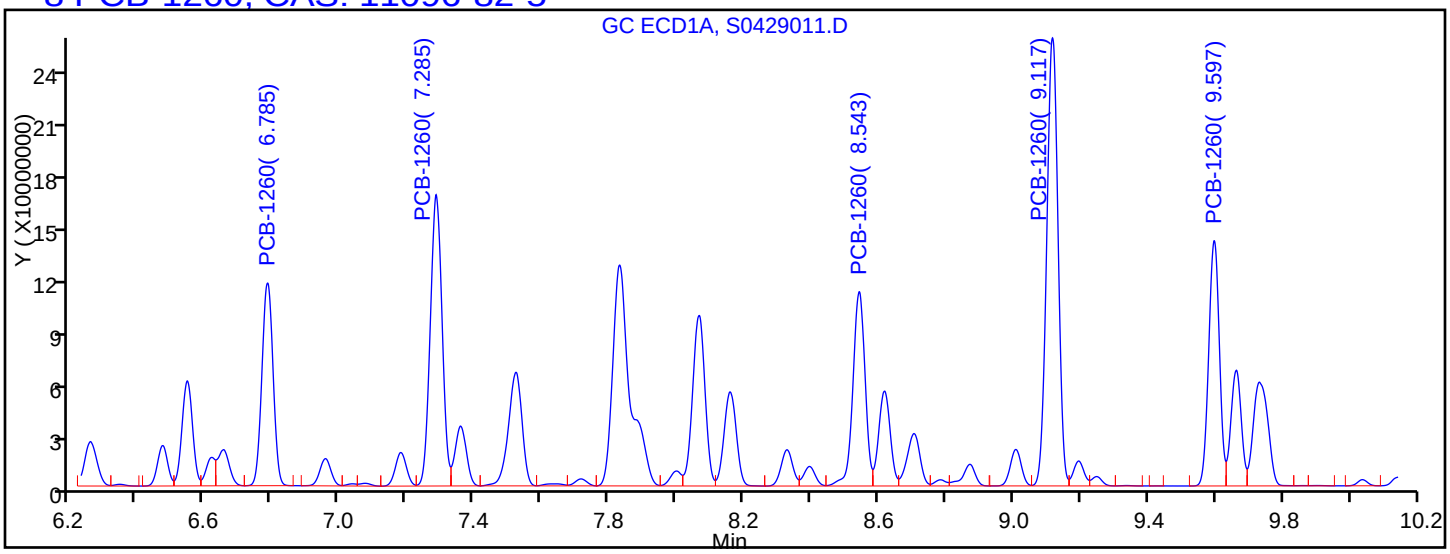
Operator ID: 402331 ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

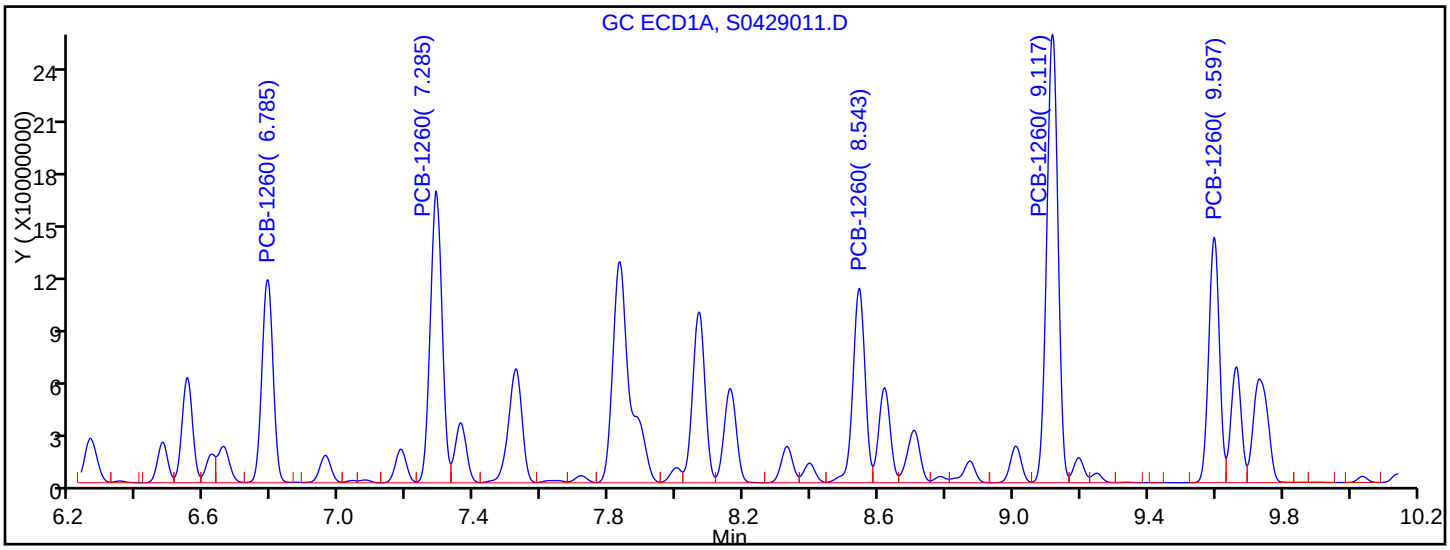
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 6.785	Response = 114419509	M
RT = 7.285	Response = 164554537	M
RT = 8.543	Response = 109718345	M
RT = 9.117	Response = 253045864	M
RT = 9.597	Response = 138484373	



Manual Integration Results

RT = 6.785	Response = 114643045	M
RT = 7.285	Response = 164647326	M
RT = 8.543	Response = 109763045	M
RT = 9.117	Response = 253106275	M
RT = 9.597	Response = 138484373	

Reviewer: oravecj, 30-Apr-2015 05:44:18

Audit Action: Assigned New Baseline

Audit Reason: Instrument noise

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:46 Calibration End Date: 04/29/2015 09:39 Calibration ID: 23633

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/5	S0429005.D
Level 2	IC 180-139955/6	S0429006.D
Level 3	IC 180-139955/7	S0429007.D
Level 4	ICRT 180-139955/8	S0429008.D
Level 5	IC 180-139955/9	S0429009.D
Level 6	IC 180-139955/10	S0429010.D
Level 7	IC 180-139955/11	S0429011.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	4.167	4.167	4.166	4.165	4.166	4.167	4.169				4.115 - 4.215	4.167
PCB-1016 Peak 2	4.661	4.658	4.657	4.658	4.658	4.659	4.660				4.608 - 4.708	4.659
PCB-1016 Peak 3	5.261	5.291	5.290	5.290	5.289	5.292	5.292				5.240 - 5.340	5.286
PCB-1016 Peak 4	5.489	5.488	5.487	5.488	5.487	5.487	5.489				5.438 - 5.538	5.488
PCB-1016 Peak 5	6.234	6.231	6.230	6.230	6.230	6.232	6.233				6.180 - 6.280	6.231
PCB-1260 Peak 1	8.652	8.651	8.652	8.650	8.650	8.652	8.654				8.600 - 8.700	8.652
PCB-1260 Peak 2	9.044	9.043	9.042	9.040	9.042	9.042	9.045				8.990 - 9.090	9.043
PCB-1260 Peak 3	10.299	10.301	10.301	10.299	10.300	10.302	10.302				10.249 - 10.349	10.301
PCB-1260 Peak 4	10.689	10.689	10.688	10.687	10.688	10.689	10.690				10.637 - 10.737	10.689
PCB-1260 Peak 5	11.229	11.228	11.228	11.226	11.227	11.229	11.230				11.176 - 11.276	11.228
Tetrachloro-m-xylene (Surr)	3.641	3.641	3.641	3.641	3.641	3.643	3.644				3.591 - 3.691	3.642
DCB Decachlorobiphenyl (Surr)	12.799	12.800	12.799	12.800	12.799	12.801	12.801				12.730 - 12.870	12.800

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:46 Calibration End Date: 04/29/2015 09:39 Calibration ID: 23633

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/5	S0429005.D
Level 2	IC 180-139955/6	S0429006.D
Level 3	IC 180-139955/7	S0429007.D
Level 4	ICRT 180-139955/8	S0429008.D
Level 5	IC 180-139955/9	S0429009.D
Level 6	IC 180-139955/10	S0429010.D
Level 7	IC 180-139955/11	S0429011.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	10889600 10828276	11189500 9245018	11148810 9120324	10459362	Ave		10411555.6				8.4		20.0			
PCB-1016 Peak 2	14891700 14996424	15841880 12665707	15565895 12544177	14542968	Ave		14435535.8				9.2		20.0			
PCB-1016 Peak 3	18021400 22561293	23014660 19372085	22836500 19273594	21355044	Ave		20919225.1				9.7		20.0			
PCB-1016 Peak 4	15147400 13585785	13880320 11668423	13832650 11414528	13052970	Ave		13226010.9				9.9		20.0			
PCB-1016 Peak 5	11585900 11749982	11734060 9996213	11925480 9970559	11212578	Ave		11167824.6				7.5		20.0			
PCB-1260 Peak 1	20100800 20580238	20593040 17668356	21069445 17748369	19997976	Ave		19679746.3				7.1		20.0			
PCB-1260 Peak 2	25232300 24509240	26153960 21232897	25614815 21405014	23798342	Ave		23992366.8				8.2		20.0			
PCB-1260 Peak 3	22285300 22002620	23072960 19117271	22811630 19626450	21247652	Ave		21451983.1				7.2		20.0			
PCB-1260 Peak 4	50448700 48024479	50026340 41818066	49306105 42989127	46665936	Ave		47039821.7				7.3		20.0			
PCB-1260 Peak 5	27076000 27814928	27537780 24241708	28424200 24611176	26944804	Ave		26664370.8				6.0		20.0			
Tetrachloro-m-xylene (Surr)	769752000 843683060	823240400 727433230	821303500 733119530	782529760	Ave		785865926				5.8		20.0			
DCB Decachlorobiphenyl (Surr)	490700000 448366940	479535200 390243400	470538700 410704100	449611720	Ave		448528580				8.2		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 139955

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2015 07:46 Calibration End Date: 04/29/2015 09:39 Calibration ID: 23633

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-139955/5	S0429005.D
Level 2	IC 180-139955/6	S0429006.D
Level 3	IC 180-139955/7	S0429007.D
Level 4	ICRT 180-139955/8	S0429008.D
Level 5	IC 180-139955/9	S0429009.D
Level 6	IC 180-139955/10	S0429010.D
Level 7	IC 180-139955/11	S0429011.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	108896 18490036	559475 36481294	2229762	5229681	10828276	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	148917 25331413	792094 50176707	3113179	7271484	14996424	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	180214 38744170	1150733 77094376	4567300	10677522	22561293	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	151474 23336846	694016 45658113	2766530	6526485	13585785	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	115859 19992426	586703 39882237	2385096	5606289	11749982	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	201008 35336712	1029652 70993475	4213889	9998988	20580238	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	252323 42465793	1307698 85620056	5122963	11899171	24509240	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	222853 38234541	1153648 78505798	4562326	10623826	22002620	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	504487 83636131	2501317 171956506	9861221	23332968	48024479	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	270760 48483416	1376889 98444702	5684840	13472402	27814928	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
Tetrachloro-m-xylene (Surr)	Ave	384876 72743323	2058101 146623906	8213035	19563244	42184153	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl (Surr)	Ave	245350 39024340	1198838 82140820	4705387	11240293	22418347	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Apr-2015 07:46:25 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-005
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:16 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.168	3.168	0.000	378275H	0.000500	0.000368	
2	3.641	3.641	0.000	384876H	0.000500	0.000490	
						RPD = 28.40	
3 PCB-1016							
1	3.477	3.478	-0.001	177201H	0.0100	0.0100	
1	3.810	3.810	0.000	283236H	0.0100	0.0108	
1	4.299	4.300	-0.001	363840H	0.0100	0.009564	
1	4.449	4.448	0.001	196259H	0.0100	0.008705	
1	4.944	4.943	0.001	186228H	0.0100	0.009769	
		Average of Peak Amounts =				0.009773	
2	4.167	4.165	0.002	108896H	0.0100	0.0105	
2	4.661	4.658	0.003	148917H	0.0100	0.0103	
2	5.261	5.290	-0.029	180214H	0.0100	0.008615	
2	5.489	5.488	0.001	151474H	0.0100	0.0115	
2	6.234	6.230	0.004	115859H	0.0100	0.0104	
		Average of Peak Amounts =				0.0102	
						RPD = 4.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.784	6.780	0.004	323701H	0.0100	0.0101	
1	7.283	7.281	0.002	465292H	0.0100	0.0102	
1	8.540	8.538	0.002	270736H	0.0100	0.009241	
1	9.115	9.114	0.001	682263H	0.0100	0.009778	
1	9.595	9.594	0.001	342435H	0.0100	0.009243	
		Average of Peak Amounts =				0.009724	
2	8.652	8.650	0.002	201008H	0.0100	0.0102	
2	9.044	9.040	0.004	252323H	0.0100	0.0105	
2	10.299	10.299	0.000	222853H	0.0100	0.0104	
2	10.689	10.687	0.002	504487H	0.0100	0.0107	
2	11.229	11.226	0.003	270760H	0.0100	0.0102	
		Average of Peak Amounts =				0.0104	
						RPD = 6.71	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.280	11.280	0.000	381273H	0.000500	0.000494	
2	12.799	12.800	-0.001	245350H	0.000500	0.000547	
						RPD = 10.25	

Reagents:

GCAR1660CALL1_00015 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429005.D

Injection Date: 29-Apr-2015 07:46:25 Instrument ID: CHGC10

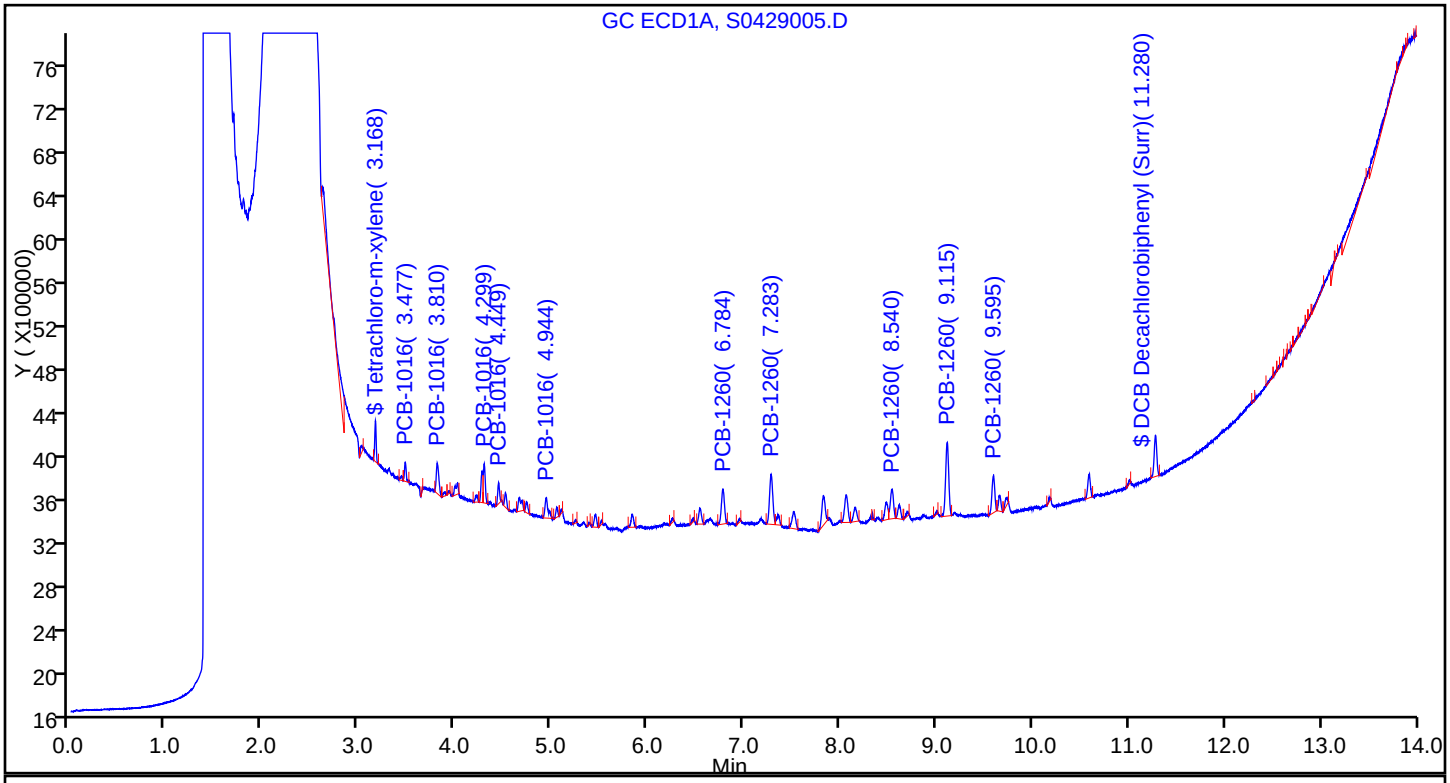
Lims ID: IC

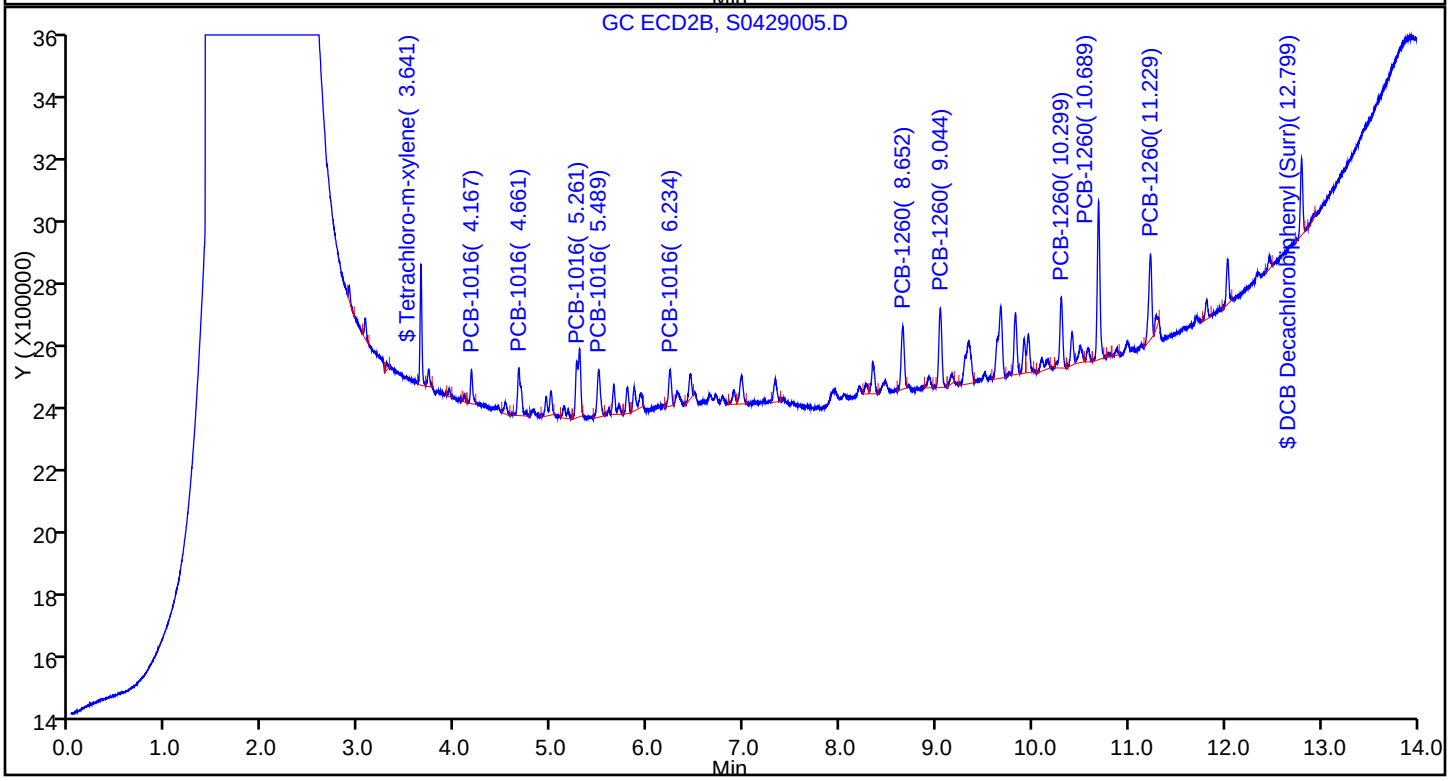
Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Apr-2015 08:05:11 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-006
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:13 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.168	3.168	0.000	2668354H	0.002500	0.002596	
2	3.641	3.641	0.000	2058101H	0.002500	0.002619	
						RPD = 0.89	
3 PCB-1016							
1	3.478	3.478	0.000	882152H	0.0500	0.0500	
1	3.811	3.810	0.001	1371120H	0.0500	0.0522	
1	4.300	4.300	0.000	1904362H	0.0500	0.0501	
1	4.449	4.448	0.001	1161702H	0.0500	0.0515	
1	4.943	4.943	0.000	941111H	0.0500	0.0494	
		Average of Peak Amounts =				0.0506	
2	4.167	4.165	0.002	559475H	0.0500	0.0537	
2	4.658	4.658	0.000	792094H	0.0500	0.0549	
2	5.291	5.290	0.001	1150733H	0.0500	0.0550	
2	5.488	5.488	0.000	694016H	0.0500	0.0525	
2	6.231	6.230	0.001	586703H	0.0500	0.0525	
		Average of Peak Amounts =				0.0537	
						RPD = 5.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.782	6.780	0.002	1627993H	0.0500	0.0510	
1	7.285	7.281	0.004	2321988H	0.0500	0.0510	
1	8.538	8.538	0.000	1480607H	0.0500	0.0505	
1	9.113	9.114	-0.001	3503827H	0.0500	0.0502	
1	9.594	9.594	0.000	1872593H	0.0500	0.0505	
		Average of Peak Amounts =				0.0507	
2	8.651	8.650	0.001	1029652H	0.0500	0.0523	
2	9.043	9.040	0.003	1307698H	0.0500	0.0545	
2	10.301	10.299	0.002	1153648H	0.0500	0.0538	
2	10.689	10.687	0.002	2501317H	0.0500	0.0532	
2	11.228	11.226	0.002	1376889H	0.0500	0.0516	
		Average of Peak Amounts =				0.0531	
						RPD = 4.68	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.280	11.280	0.000	1986208H	0.002500	0.002572	
2	12.800	12.800	0.000	1198838H	0.002500	0.002673	
						RPD = 3.85	

Reagents:

GCAR1660CALL2_00010 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:14 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429006.D

Injection Date: 29-Apr-2015 08:05:11 Instrument ID: CHGC10

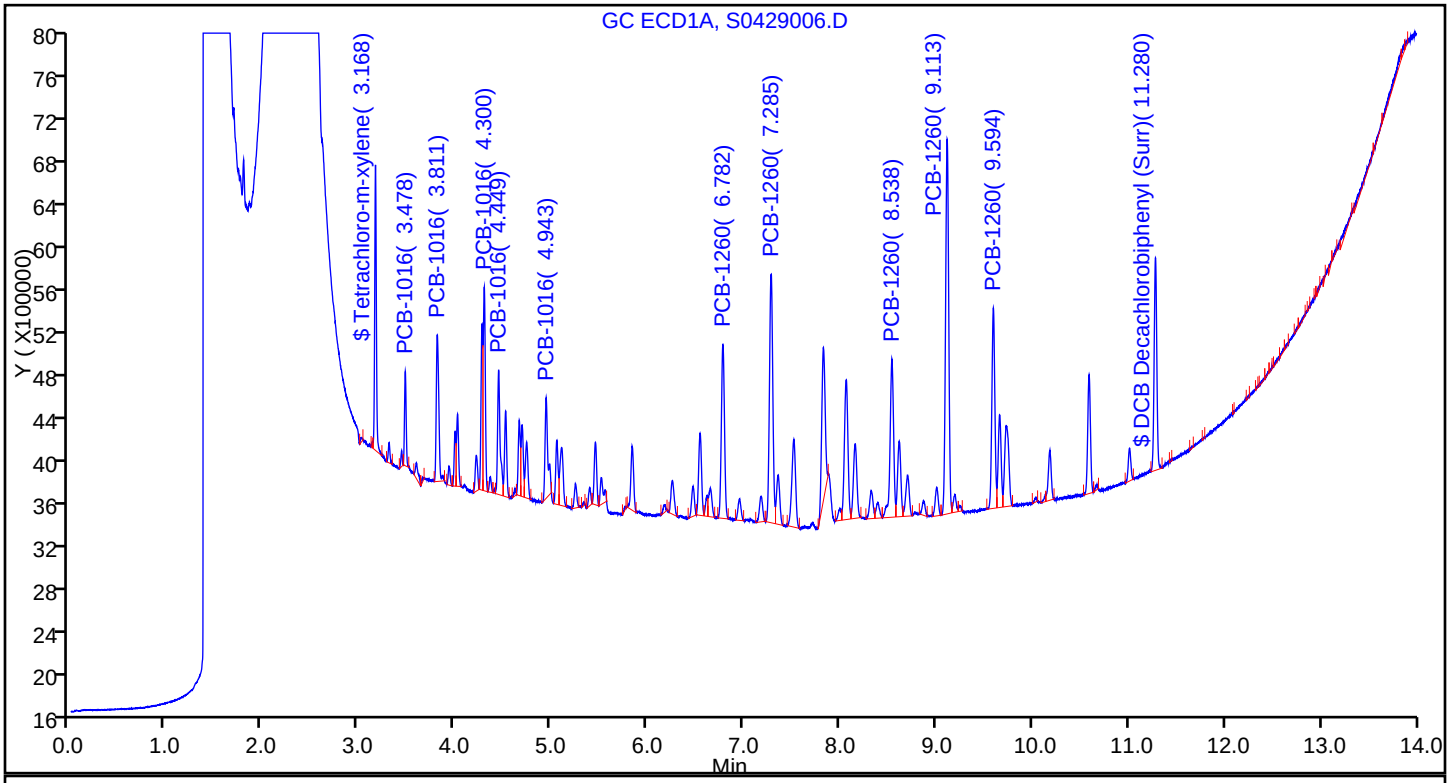
Lims ID: IC

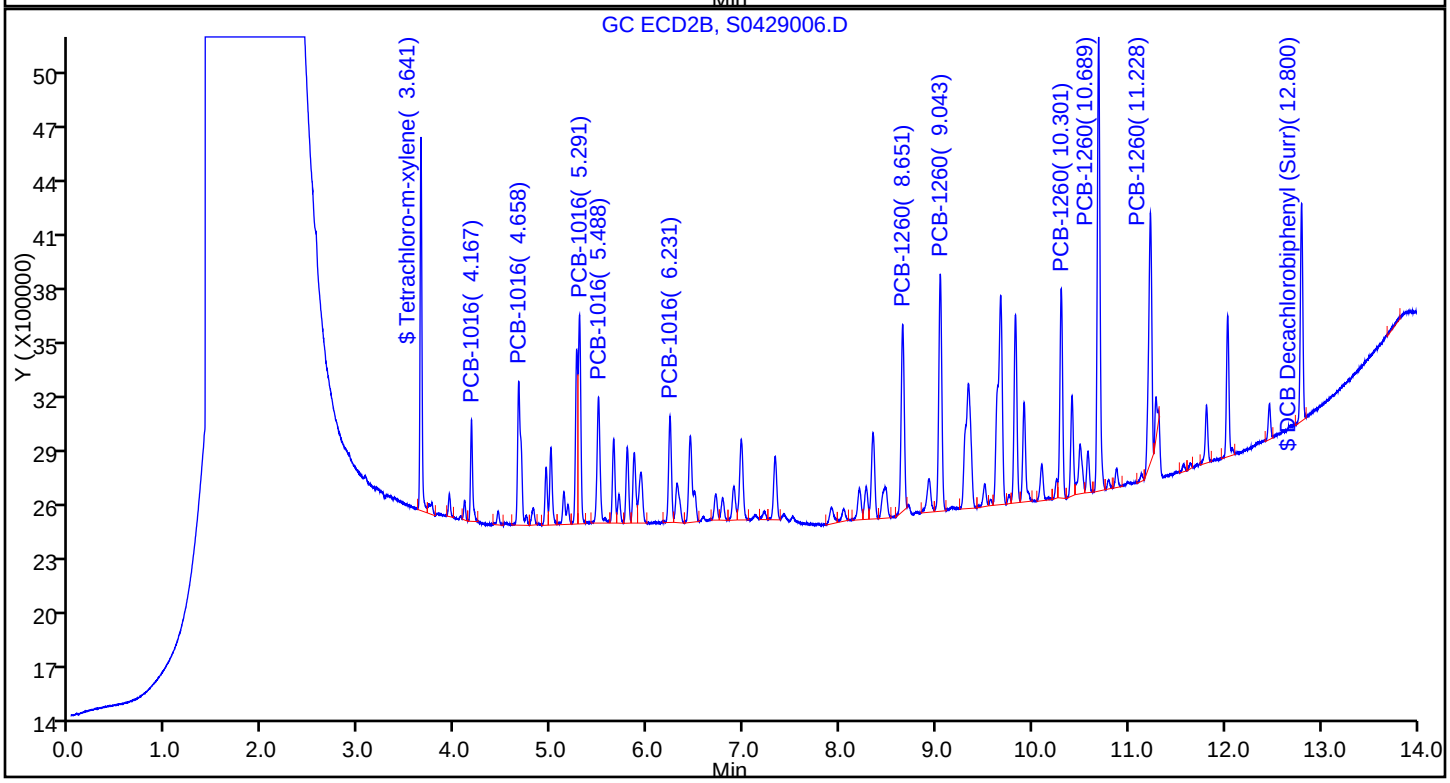
Client ID:

Operator ID: 402331 ALS Bottle#: 6 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429007.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 29-Apr-2015 08:23:57 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-007
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:11 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:46:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.168	3.168	0.000	11012143H	0.0100	0.0107	
2	3.641	3.641	0.000	8213035H	0.0100	0.0105	
						RPD = 2.47	
3 PCB-1016							
1	3.478	3.478	0.000	3776451H	0.2000	0.2140	
1	3.811	3.810	0.001	5585279H	0.2000	0.2127	
1	4.300	4.300	0.000	8052912H	0.2000	0.2117	
1	4.449	4.448	0.001	4851231H	0.2000	0.2152	
1	4.943	4.943	0.000	4048652H	0.2000	0.2124	
		Average of Peak Amounts =				0.2132	
2	4.166	4.165	0.001	2229762H	0.2000	0.2142	
2	4.657	4.658	-0.001	3113179H	0.2000	0.2157	
2	5.290	5.290	0.000	4567300H	0.2000	0.2183	
2	5.487	5.488	-0.001	2766530H	0.2000	0.2092	
2	6.230	6.230	0.000	2385096H	0.2000	0.2136	
		Average of Peak Amounts =				0.2142	
						RPD = 0.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.782	6.780	0.002	6680578H	0.2000	0.2093	
1	7.282	7.281	0.001	9647083H	0.2000	0.2118	
1	8.541	8.538	0.003	6347933H	0.2000	0.2167	
1	9.115	9.114	0.001	14698359H	0.2000	0.2107	
1	9.595	9.594	0.001	7864457H	0.2000	0.2123	
		Average of Peak Amounts =				0.2121	
2	8.652	8.650	0.002	4213889H	0.2000	0.2141	
2	9.042	9.040	0.002	5122963H	0.2000	0.2135	
2	10.301	10.299	0.002	4562326H	0.2000	0.2127	
2	10.688	10.687	0.001	9861221H	0.2000	0.2096	
2	11.228	11.226	0.002	5684840H	0.2000	0.2132	
		Average of Peak Amounts =				0.2126	
						RPD = 0.23	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.281	11.280	0.001	8171712H	0.0100	0.0106	
2	12.799	12.800	-0.001	4705387H	0.0100	0.0105	
						RPD = 0.86	

Reagents:

GCAR1660CALL3_00009 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429007.D

Injection Date: 29-Apr-2015 08:23:57 Instrument ID: CHGC10

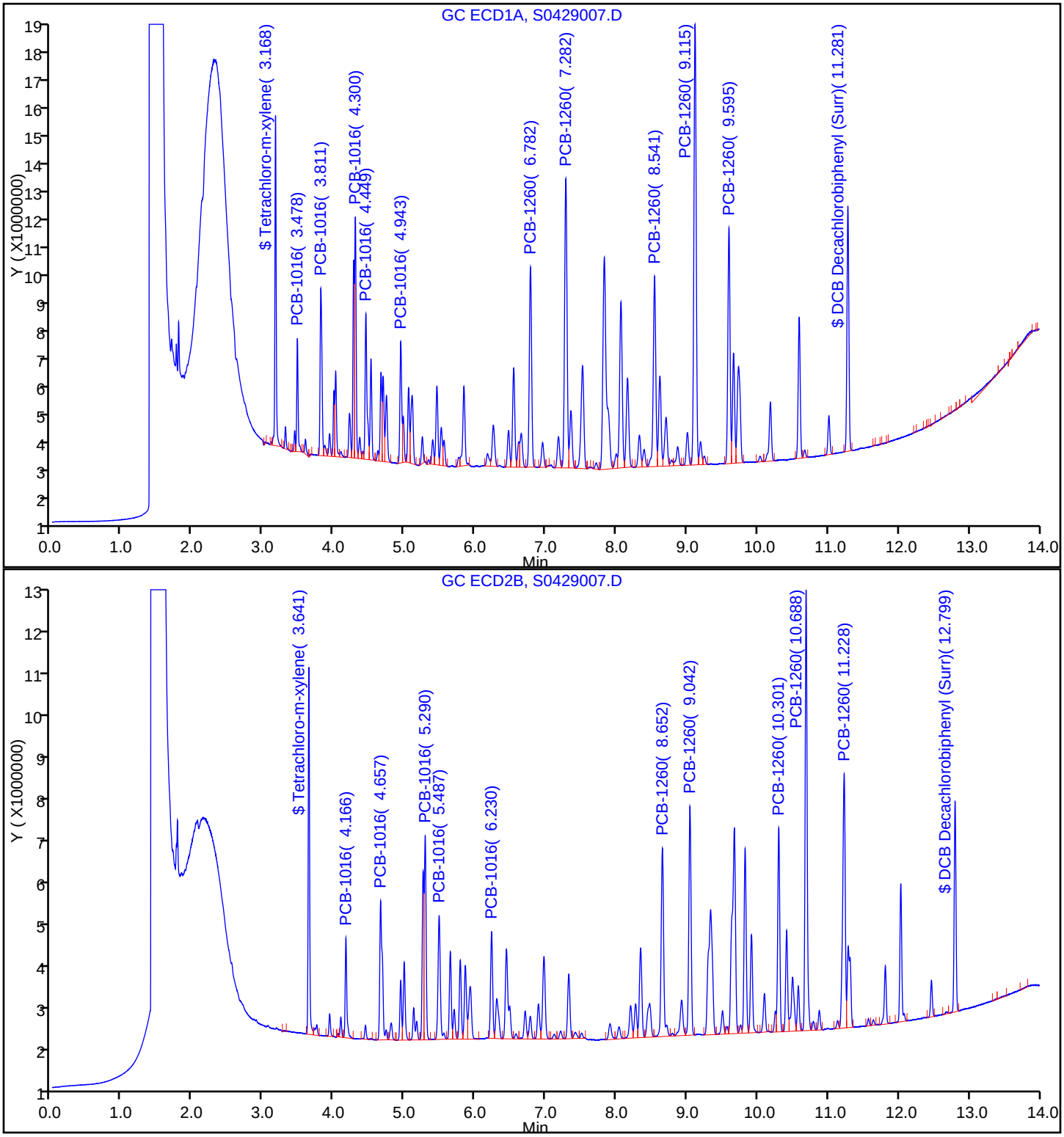
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 7 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429008.D
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 4
Inject. Date: 29-Apr-2015 08:42:42 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-008
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:08 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:36:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.168	3.168	0.000	27372339H	0.0250	0.0266	
2	3.641	3.641	0.000	19563244H	0.0250	0.0249	
						RPD = 6.73	
3 PCB-1016							
1	3.478	3.478	0.000	8991158H	0.5000	0.5094	
1	3.810	3.810	0.000	13134744H	0.5000	0.5002	
1	4.300	4.300	0.000	19627517H	0.5000	0.5159	
1	4.448	4.448	0.000	11727866H	0.5000	0.5202	
1	4.943	4.943	0.000	9796094H	0.5000	0.5139	
		Average of Peak Amounts =				0.5119	
2	4.165	4.165	0.000	5229681H	0.5000	0.5023	
2	4.658	4.658	0.000	7271484H	0.5000	0.5037	
2	5.290	5.290	0.000	10677522H	0.5000	0.5104	
2	5.488	5.488	0.000	6526485H	0.5000	0.4935	
2	6.230	6.230	0.000	5606289H	0.5000	0.5020	
		Average of Peak Amounts =				0.5024	
						RPD = 1.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							M
1	6.780	6.780	0.000	16348080H	0.5000	0.5122	M
1	7.281	7.281	0.000	23301594H	0.5000	0.5116	M
1	8.538	8.538	0.000	15410893H	0.5000	0.5260	M
1	9.114	9.114	0.000	37004431H	0.5000	0.5303	M
1	9.594	9.594	0.000	19468121H	0.5000	0.5255	M
		Average of Peak Amounts =				0.5211	
2	8.650	8.650	0.000	9998988H	0.5000	0.5081	
2	9.040	9.040	0.000	11899171H	0.5000	0.4960	
2	10.299	10.299	0.000	10623826H	0.5000	0.4952	
2	10.687	10.687	0.000	23332968H	0.5000	0.4960	
2	11.226	11.226	0.000	13472402H	0.5000	0.5053	
		Average of Peak Amounts =				0.5001	
						RPD = 4.12	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.280	11.280	0.000	19621563H	0.0250	0.0254	
2	12.800	12.800	0.000	11240293H	0.0250	0.0251	
						RPD = 1.37	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429008.D

Injection Date: 29-Apr-2015 08:42:42 Instrument ID: CHGC10

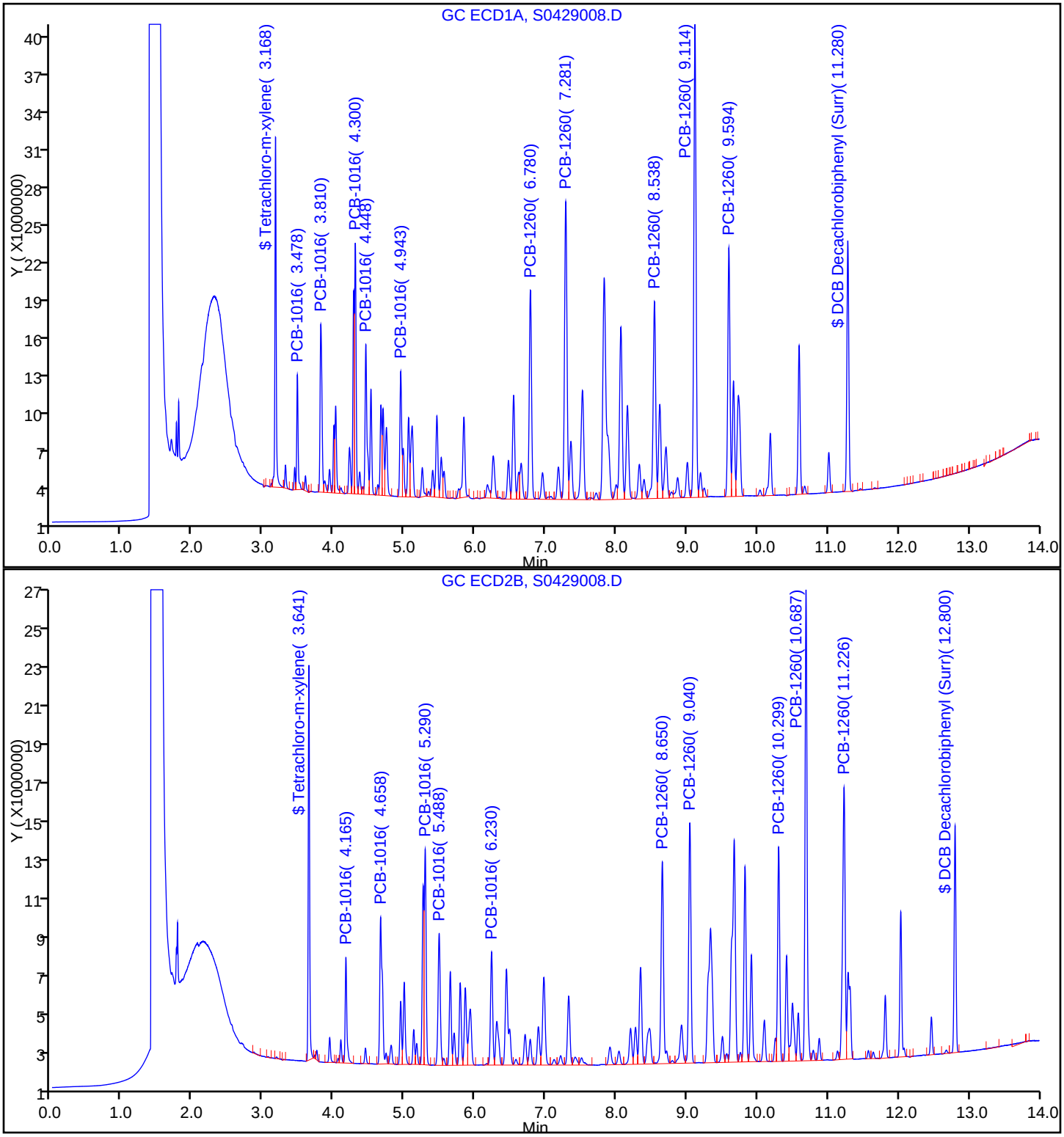
Lims ID: ICRT

Client ID:

Operator ID: 402331 ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 29-Apr-2015 09:01:29 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-009
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:05 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:46:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.169	3.168	0.001	57892042H	0.0500	0.0563	
2	3.641	3.641	0.000	42184153H	0.0500	0.0537	
						RPD = 4.79	
3 PCB-1016							
1	3.478	3.478	0.000	18970329H	1.00	1.07	
1	3.810	3.810	0.000	27490112H	1.00	1.05	
1	4.299	4.300	-0.001	41615108H	1.00	1.09	
1	4.449	4.448	0.001	24762557H	1.00	1.10	
1	4.943	4.943	0.000	20653123H	1.00	1.08	
		Average of Peak Amounts =				1.08	
2	4.166	4.165	0.001	10828276H	1.00	1.04	
2	4.658	4.658	0.000	14996424H	1.00	1.04	
2	5.289	5.290	-0.001	22561293H	1.00	1.08	
2	5.487	5.488	-0.001	13585785H	1.00	1.03	
2	6.230	6.230	0.000	11749982H	1.00	1.05	
		Average of Peak Amounts =				1.05	
						RPD = 3.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							M
1	6.782	6.780	0.002	34358935H	1.00	1.08	M
1	7.283	7.281	0.002	48257536H	1.00	1.06	M
1	8.539	8.538	0.001	31386203H	1.00	1.07	M
1	9.114	9.114	0.000	75034620H	1.00	1.08	M
1	9.594	9.594	0.000	39771768H	1.00	1.07	M
		Average of Peak Amounts =				1.07	
2	8.650	8.650	0.000	20580238H	1.00	1.05	M
2	9.042	9.040	0.002	24509240H	1.00	1.02	M
2	10.300	10.299	0.001	22002620H	1.00	1.03	M
2	10.688	10.687	0.001	48024479H	1.00	1.02	M
2	11.227	11.226	0.001	27814928H	1.00	1.04	M
		Average of Peak Amounts =				1.03	
						RPD = 3.79	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.280	11.280	0.000	40686048H	0.0500	0.0527	
2	12.799	12.800	-0.001	22418347H	0.0500	0.0500	
						RPD = 5.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL5_00010 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429009.D

Injection Date: 29-Apr-2015 09:01:29 Instrument ID: CHGC10

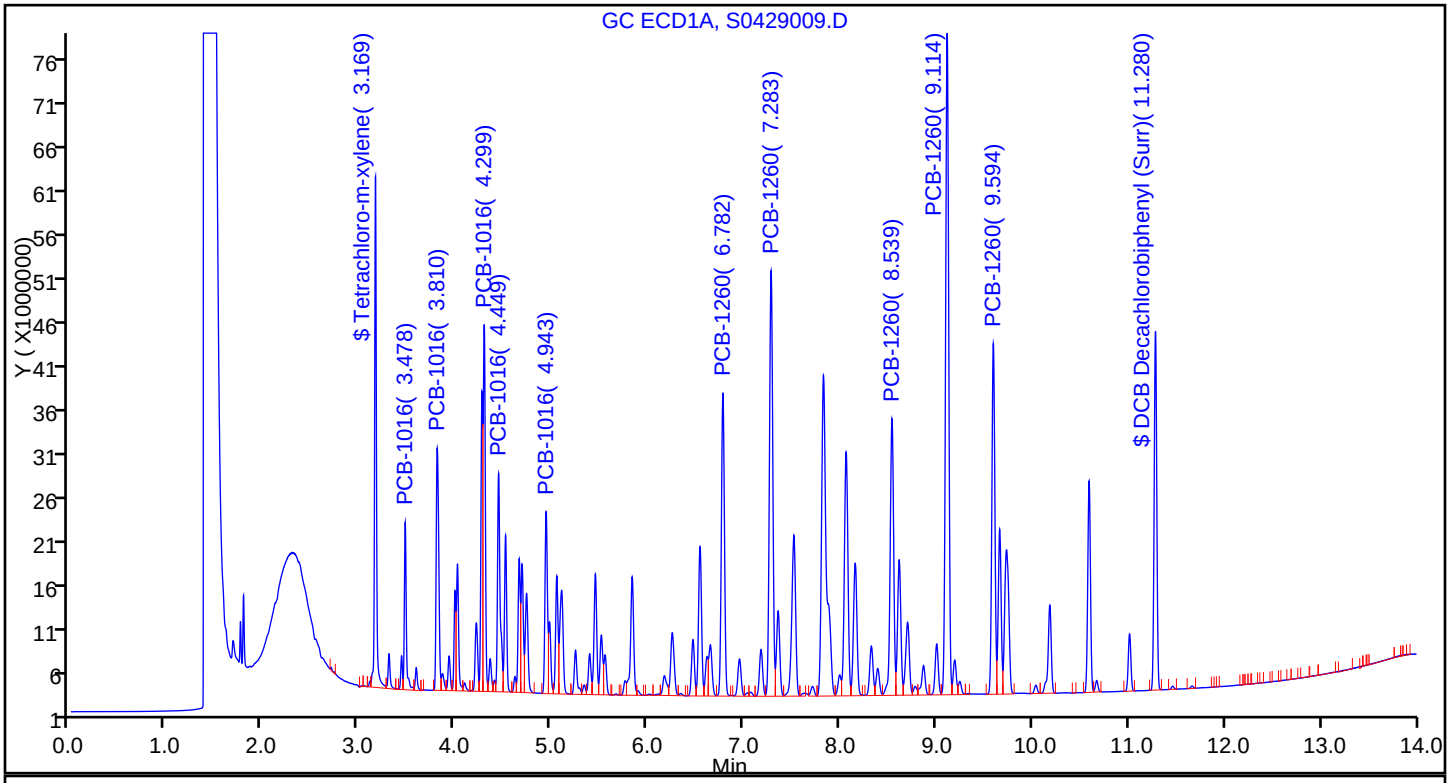
Lims ID: IC

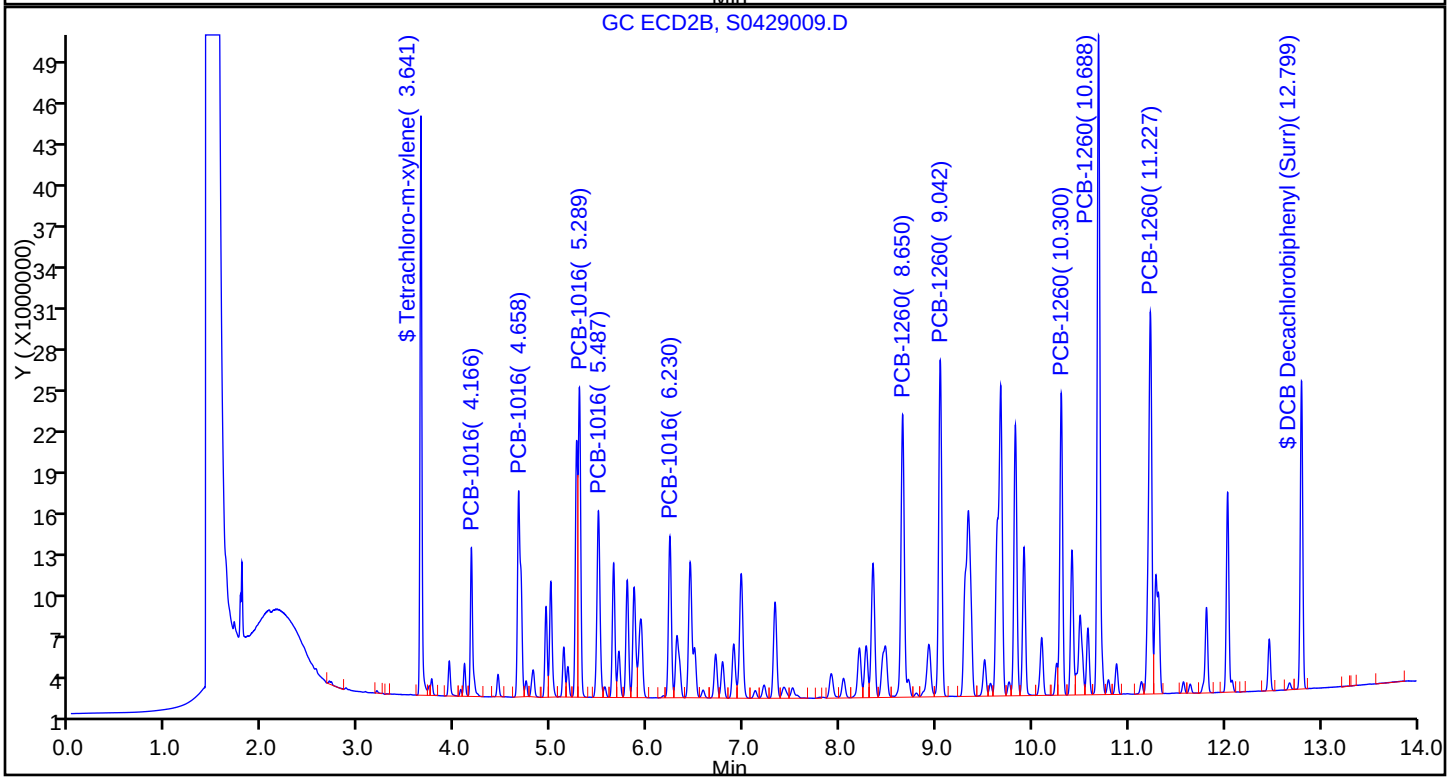
Client ID:

Operator ID: 402331 ALS Bottle#: 9 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





Report Date: 30-Apr-2015 05:50:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429009.D

Injection Date: 29-Apr-2015 09:01:29 Instrument ID: CHGC10

Lims ID: IC

Client ID:

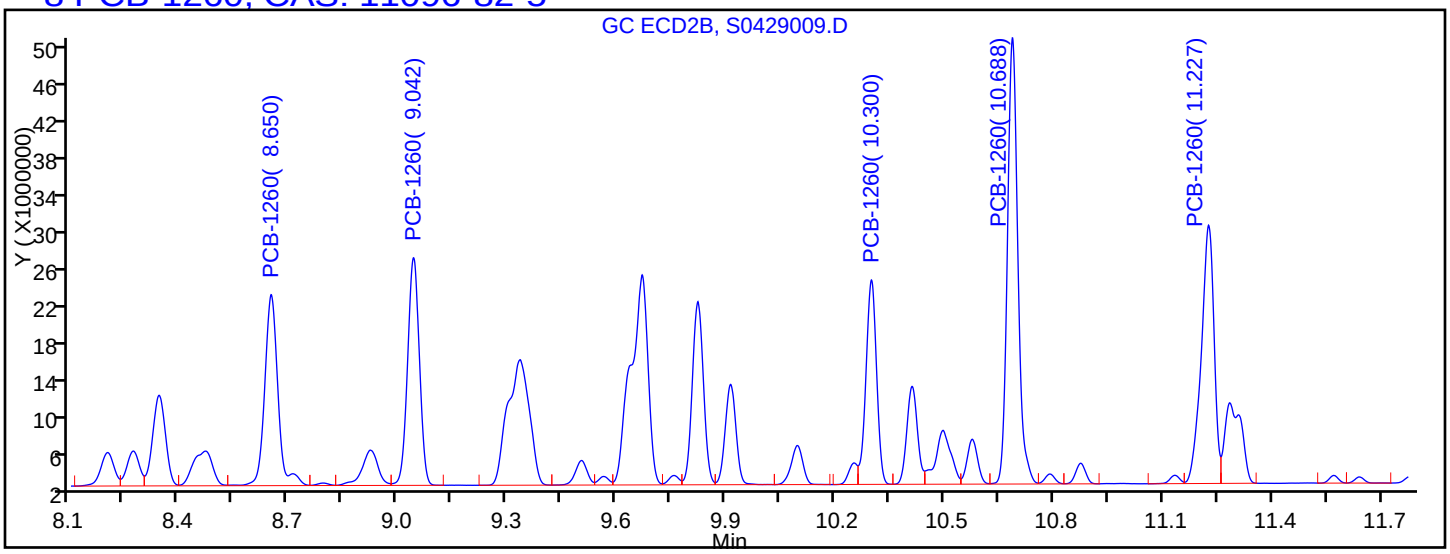
Operator ID: 402331 ALS Bottle#: 9 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

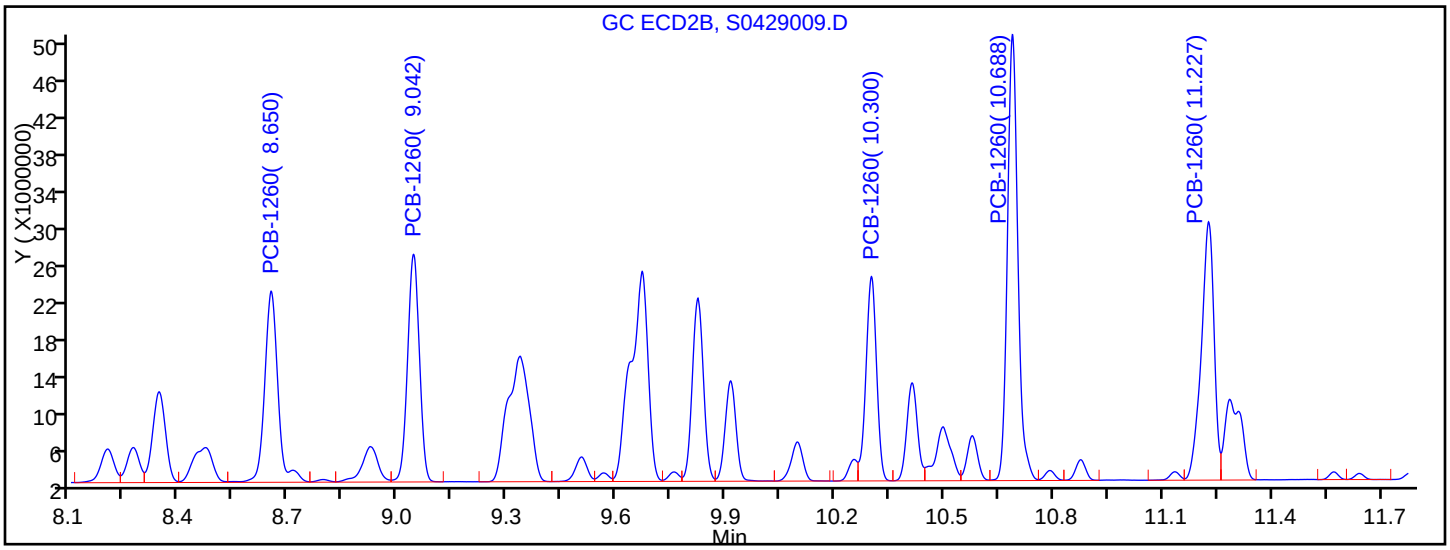
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 8.650	Response = 20561263	M
RT = 9.042	Response = 24494269	M
RT = 10.300	Response = 21994570	M
RT = 10.688	Response = 48015372	M
RT = 11.227	Response = 27795754	M



Manual Integration Results

RT = 8.650	Response = 20580238	M
RT = 9.042	Response = 24509240	M
RT = 10.300	Response = 22002620	M
RT = 10.688	Response = 48024479	M
RT = 11.227	Response = 27814928	M

Reviewer: oravecj, 30-Apr-2015 05:46:02

Audit Action: Assigned New Baseline

Audit Reason: Instrument noise

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Apr-2015 09:20:15 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-010
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:50:02 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:45:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.171	3.168	0.003	105681687H	0.1000	0.1028	
2	3.643	3.641	0.002	72743323H	0.1000	0.0926	
						RPD = 10.48	
3 PCB-1016							
1	3.480	3.478	0.002	32630876H	2.00	1.85	
1	3.812	3.810	0.002	47011492H	2.00	1.79	
1	4.301	4.300	0.001	71462563H	2.00	1.88	
1	4.450	4.448	0.002	42874795H	2.00	1.90	
1	4.944	4.943	0.001	35768090H	2.00	1.88	
		Average of Peak Amounts =				1.86	
2	4.167	4.165	0.002	18490036H	2.00	1.78	
2	4.659	4.658	0.001	25331413H	2.00	1.75	
2	5.292	5.290	0.002	38744170H	2.00	1.85	
2	5.487	5.488	-0.001	23336846H	2.00	1.76	
2	6.232	6.230	0.002	19992426H	2.00	1.79	
		Average of Peak Amounts =				1.79	
						RPD = 3.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							M
1	6.783	6.780	0.003	58744606H	2.00	1.84	
1	7.284	7.281	0.003	83212583H	2.00	1.83	M
1	8.541	8.538	0.003	54005338H	2.00	1.84	M
1	9.115	9.114	0.001	128602489H	2.00	1.84	M
1	9.596	9.594	0.002	69954683H	2.00	1.89	M
		Average of Peak Amounts =				1.85	
2	8.652	8.650	0.002	35336712H	2.00	1.80	M
2	9.042	9.040	0.002	42465793H	2.00	1.77	M
2	10.302	10.299	0.003	38234541H	2.00	1.78	M
2	10.689	10.687	0.002	83636131H	2.00	1.78	M
2	11.229	11.226	0.003	48483416H	2.00	1.82	
		Average of Peak Amounts =				1.79	
						RPD = 3.28	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.281	11.280	0.001	71433650H	0.1000	0.0925	
2	12.801	12.800	0.001	39024340H	0.1000	0.0870	
						RPD = 6.12	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL6_00008 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:50:02 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429010.D

Injection Date: 29-Apr-2015 09:20:15 Instrument ID: CHGC10

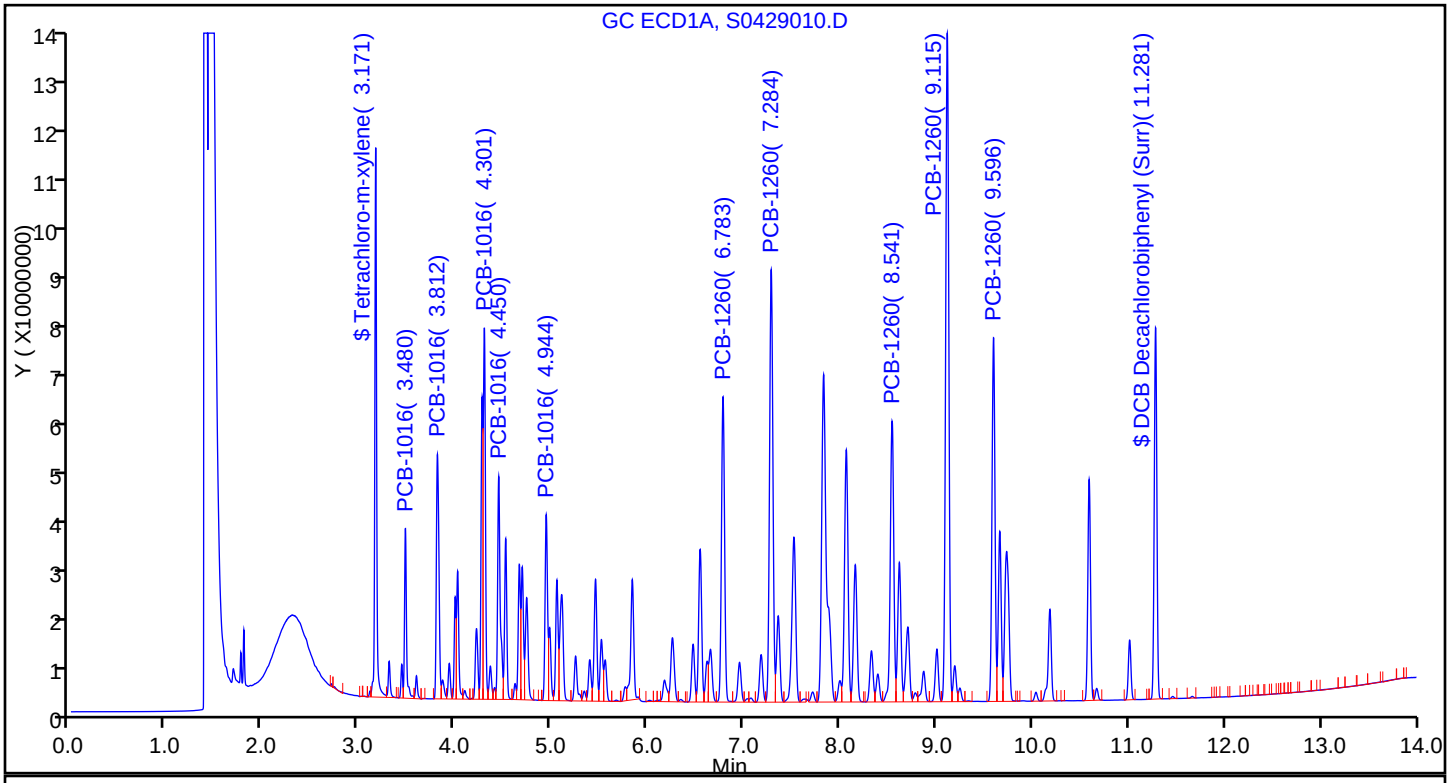
Lims ID: IC

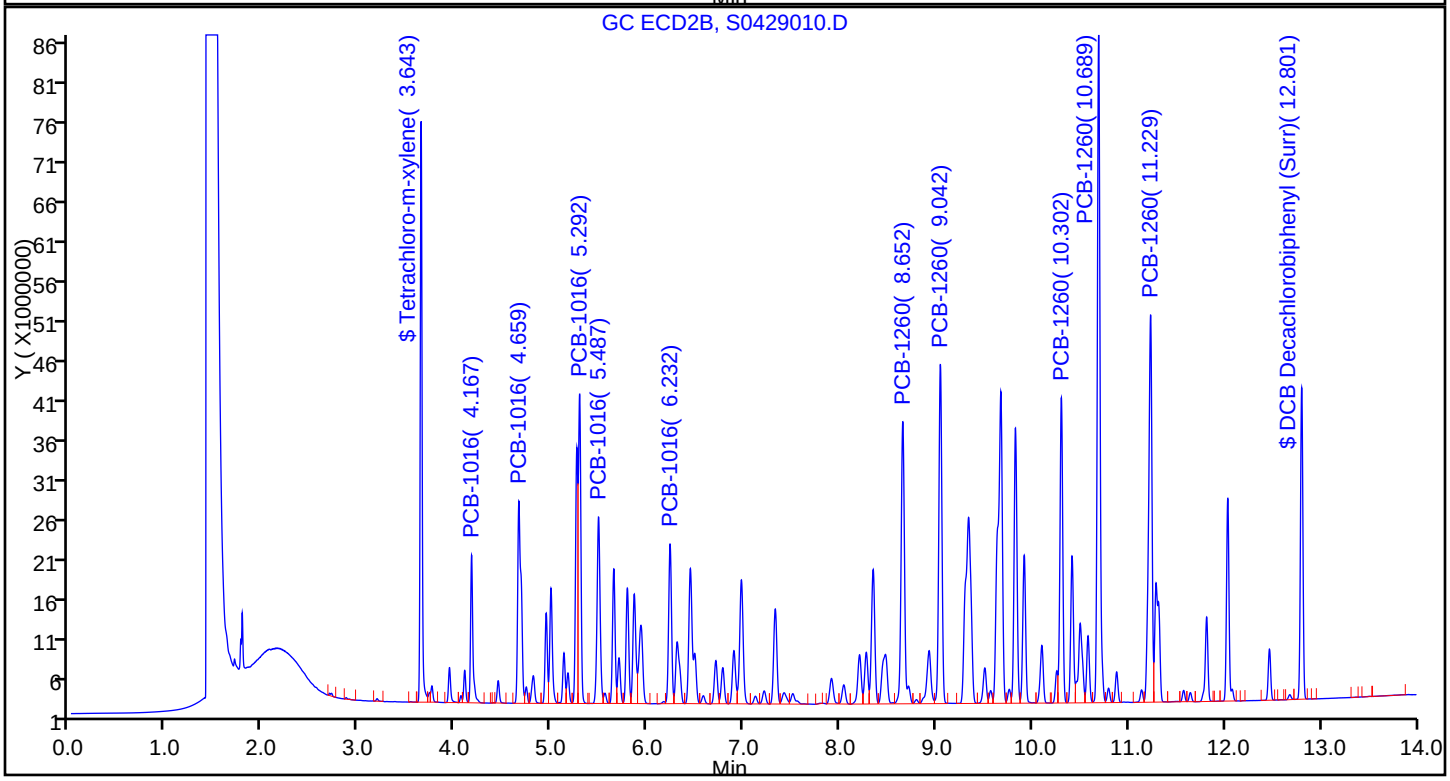
Client ID:

Operator ID: 402331 ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





Report Date: 30-Apr-2015 05:50:02 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429010.D

Injection Date: 29-Apr-2015 09:20:15 Instrument ID: CHGC10

Lims ID: IC

Client ID:

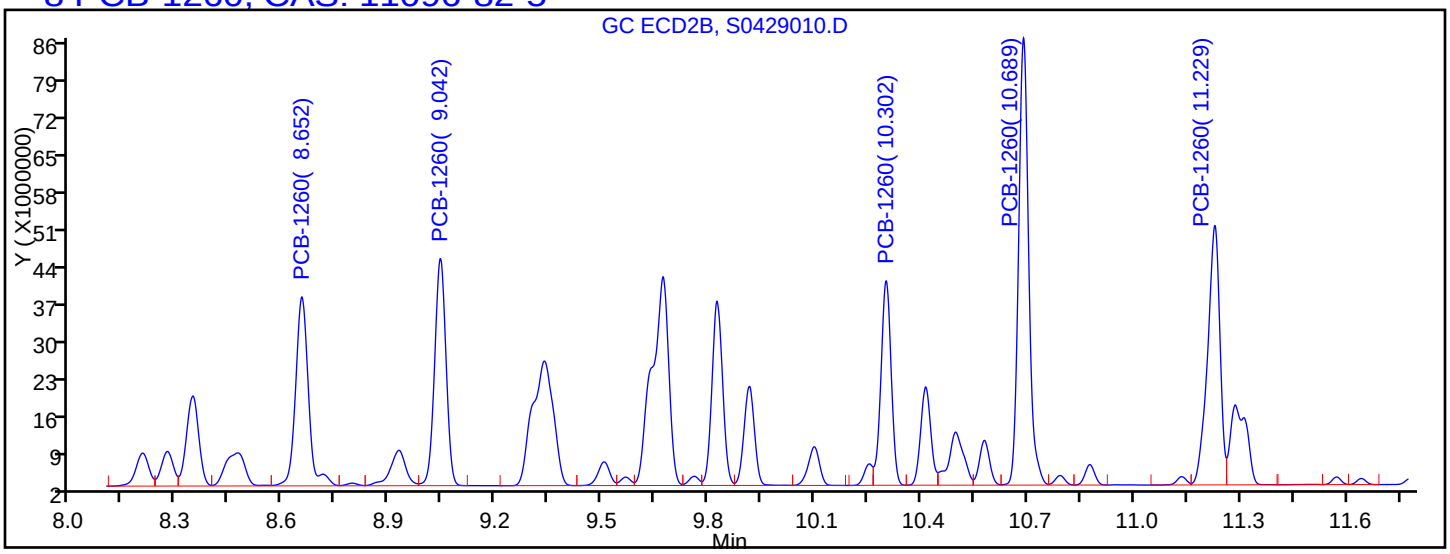
Operator ID: 402331 ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

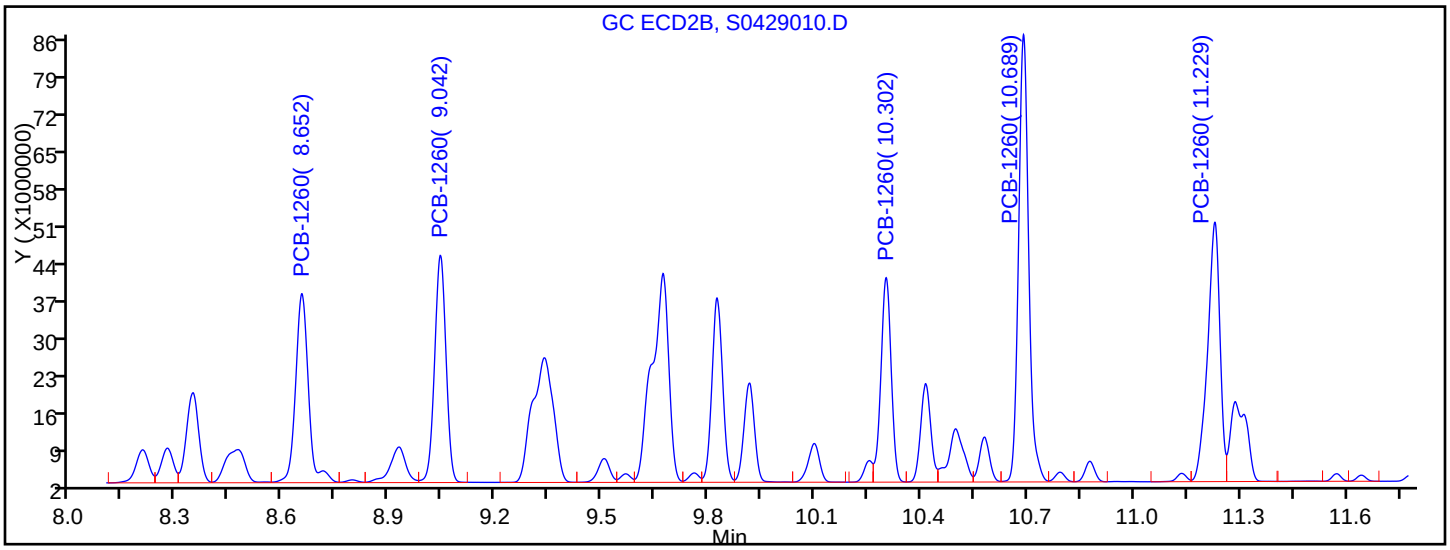
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 8.652	Response = 35314412	M
RT = 9.042	Response = 42430150	M
RT = 10.302	Response = 38197741	M
RT = 10.689	Response = 83610571	M
RT = 11.229	Response = 48483416	



Manual Integration Results

RT = 8.652	Response = 35336712	M
RT = 9.042	Response = 42465793	M
RT = 10.302	Response = 38234541	M
RT = 10.689	Response = 83636131	M
RT = 11.229	Response = 48483416	

Reviewer: oravecj, 30-Apr-2015 05:45:09

Audit Action: Assigned New Baseline

Audit Reason: Instrument noise

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 29-Apr-2015 09:39:01 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006677-011
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 30-Apr-2015 05:49:57 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK048

First Level Reviewer: oravecj Date: 30-Apr-2015 05:44:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.172	3.168	0.004	192271533H	0.2000	0.1870	
2	3.644	3.641	0.003	146623906H	0.2000	0.1866	
						RPD = 0.25	
3 PCB-1016							
1	3.481	3.478	0.003	64128529H	4.00	3.63	
1	3.813	3.810	0.003	91552027H	4.00	3.49	
1	4.302	4.300	0.002	139816426H	4.00	3.68	
1	4.451	4.448	0.003	84186833H	4.00	3.73	
1	4.945	4.943	0.002	70495629H	4.00	3.70	
		Average of Peak Amounts =				3.65	
2	4.169	4.165	0.004	36481294H	4.00	3.50	
2	4.660	4.658	0.002	50176707H	4.00	3.48	
2	5.292	5.290	0.002	77094376H	4.00	3.69	
2	5.489	5.488	0.001	45658113H	4.00	3.45	
2	6.233	6.230	0.003	39882237H	4.00	3.57	
		Average of Peak Amounts =				3.54	
						RPD = 3.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							M
1	6.785	6.780	0.005	114643045H	4.00	3.59	M
1	7.285	7.281	0.004	164647326H	4.00	3.61	M
1	8.543	8.538	0.005	109763045H	4.00	3.75	M
1	9.117	9.114	0.003	253106275H	4.00	3.63	M
1	9.597	9.594	0.003	138484373H	4.00	3.74	
		Average of Peak Amounts =				3.66	
2	8.654	8.650	0.004	70993475H	4.00	3.61	M
2	9.045	9.040	0.005	85620056H	4.00	3.57	M
2	10.302	10.299	0.003	78505798H	4.00	3.66	M
2	10.690	10.687	0.003	171956506H	4.00	3.66	M
2	11.230	11.226	0.004	98444702H	4.00	3.69	
		Average of Peak Amounts =				3.64	
						RPD = 0.74	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.283	11.280	0.003	143788180H	0.2000	0.1862	
2	12.801	12.800	0.001	82140820H	0.2000	0.1831	
						RPD = 1.65	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL7_00009 Amount Added: 1.00 Units: mL

Report Date: 30-Apr-2015 05:49:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Injection Date: 29-Apr-2015 09:39:01 Instrument ID: CHGC10

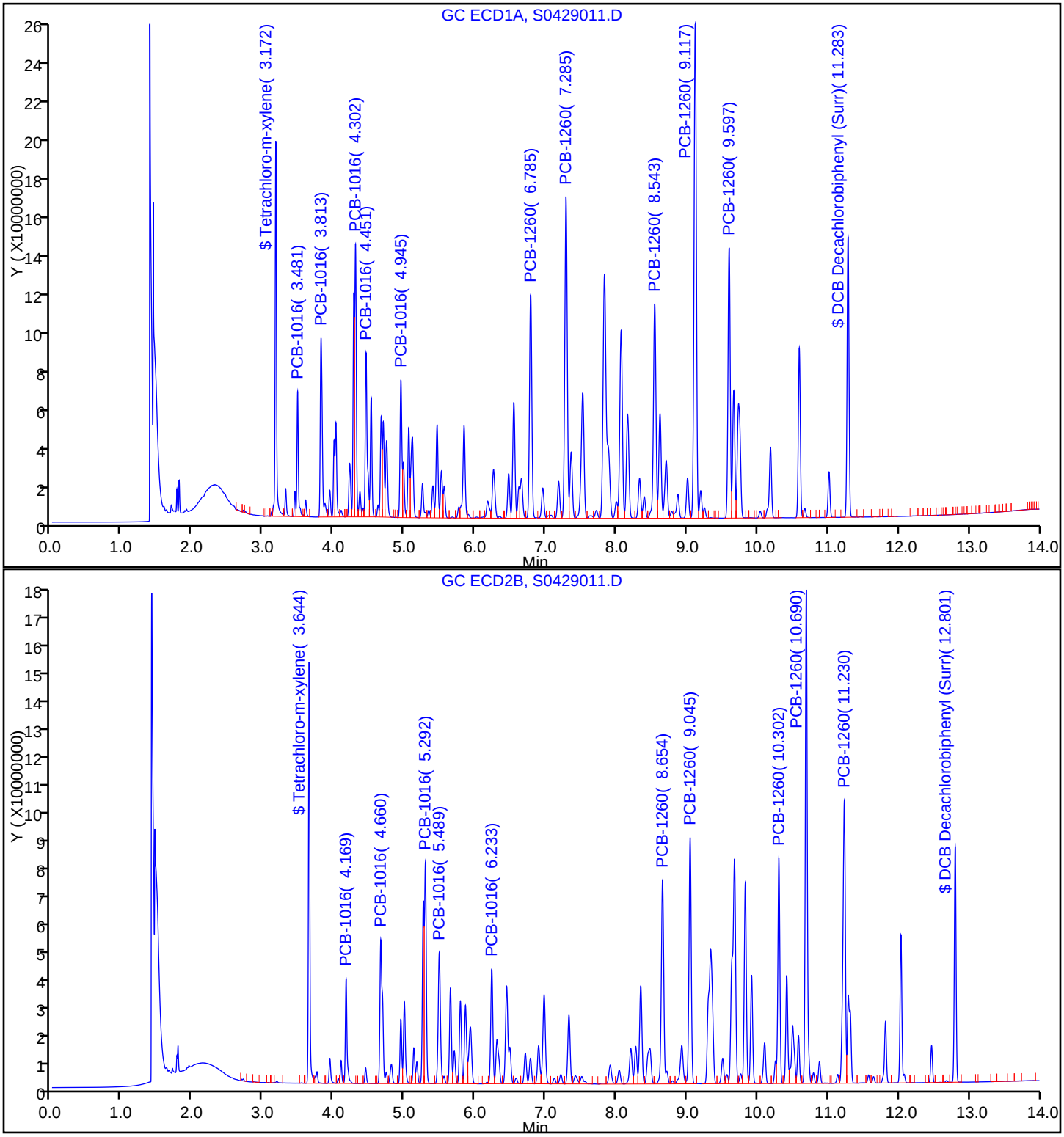
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



Report Date: 30-Apr-2015 05:49:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Injection Date: 29-Apr-2015 09:39:01 Instrument ID: CHGC10

Lims ID: IC

Client ID:

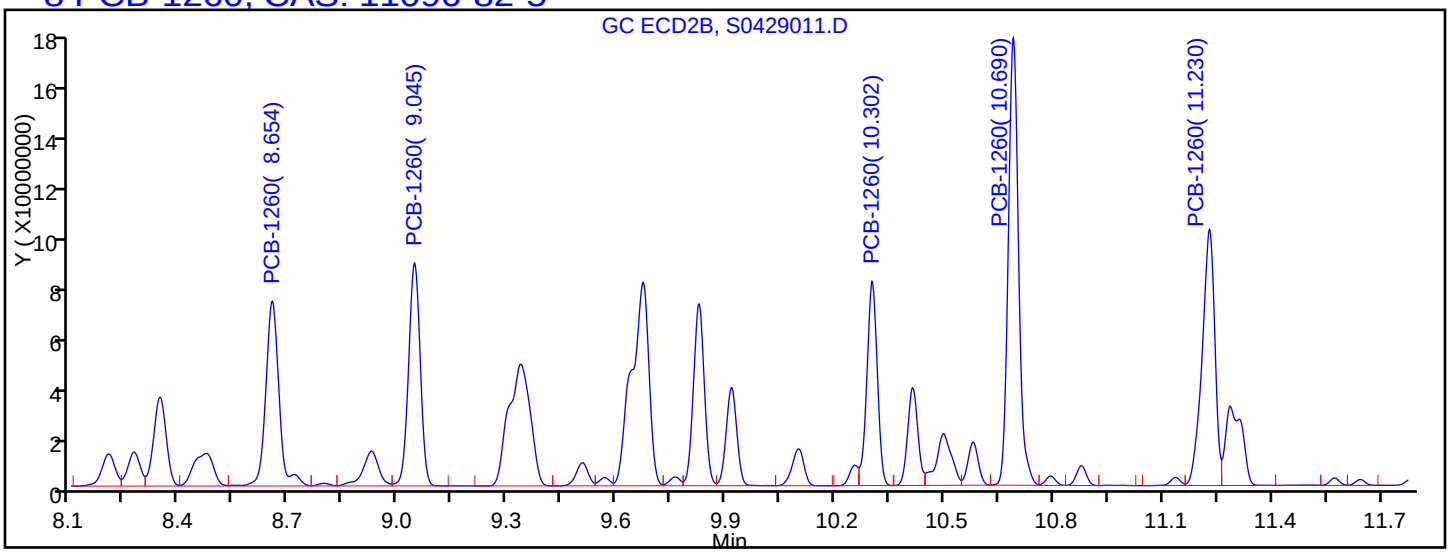
Operator ID: 402331 ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

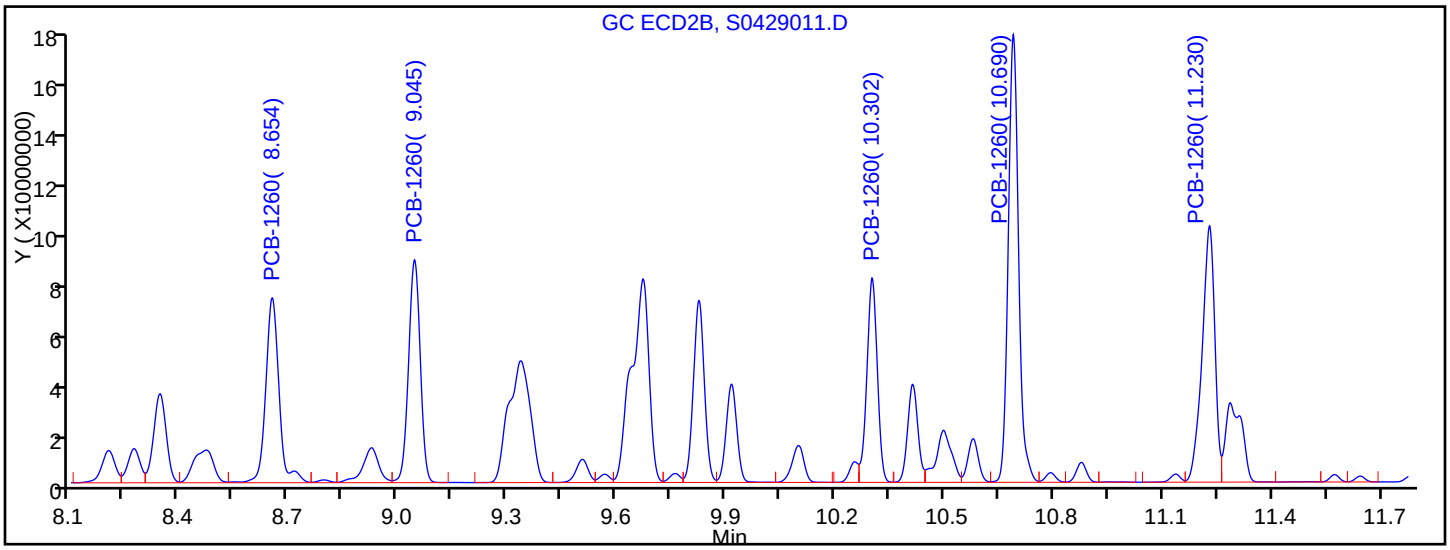
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 8.654	Response = 70949539	M
RT = 9.045	Response = 85573395	M
RT = 10.302	Response = 78425319	M
RT = 10.690	Response = 171773836	M
RT = 11.230	Response = 98444702	



Manual Integration Results

RT = 8.654	Response = 70993475	M
RT = 9.045	Response = 85620056	M
RT = 10.302	Response = 78505798	M
RT = 10.690	Response = 171956506	M
RT = 11.230	Response = 98444702	

Reviewer: oravecj, 30-Apr-2015 05:44:18

Audit Action: Assigned New Baseline

Audit Reason: Instrument noise

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 12:11 Calibration End Date: 05/06/2015 13:26 Calibration ID: 23707

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/1	S0506101.D
Level 2	IC 180-140736/2	S0506102.D
Level 3	IC 180-140736/3	S0506103.D
Level 4	IC 180-140736/4	S0506104.D
Level 5	IC 180-140736/5	S0506105.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
PCB-1221 Peak 3	+++++	2.743	2.744	2.744	2.745						2.694 - 2.794	2.744
PCB-1221 Peak 1	3.314	3.315	3.317	3.316	3.317						3.266 - 3.366	3.316
PCB-1221 Peak 2	3.484	3.484	3.485	3.485	3.486						3.435 - 3.535	3.485
PCB-1254 Peak 1	5.465	5.464	5.465	5.466	5.467						5.396 - 5.536	5.465
PCB-1254 Peak 2	5.849	5.847	5.849	5.849	5.850						5.779 - 5.919	5.849
PCB-1254 Peak 3	6.482	6.479	6.483	6.482	6.483						6.412 - 6.552	6.482
PCB-1254 Peak 4	7.295	7.294	7.298	7.296	7.296						7.226 - 7.366	7.296
PCB-1254 Peak 5	7.843	7.842	7.844	7.842	7.845						7.772 - 7.912	7.843

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 12:11 Calibration End Date: 05/06/2015 13:26 Calibration ID: 23707

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/1	S0506101.D
Level 2	IC 180-140736/2	S0506102.D
Level 3	IC 180-140736/3	S0506103.D
Level 4	IC 180-140736/4	S0506104.D
Level 5	IC 180-140736/5	S0506105.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 3	+++++ 6774633	5398770	7588456	6555330	Ave		6579297.25				13.7		20.0			
PCB-1221 Peak 1	9915300 11392090	9577890	13943180	11582564	Ave		11282204.8				15.3		20.0			
PCB-1221 Peak 2	22078500 25654693	22112650	32301608	26615728	Ave		25752635.8				16.3		20.0			
PCB-1254 Peak 1	22032400 26044465	22038930	30990096	26974238	Ave		25616025.8				14.7		20.0			
PCB-1254 Peak 2	26635100 33474211	29697490	39903328	34738050	Ave		32889635.8				15.4		20.0			
PCB-1254 Peak 3	39051500 45472714	38538400	53380588	46367088	Ave		44562058.0				13.7		20.0			
PCB-1254 Peak 4	28750200 28135901	24640960	32177844	28692726	Ave		28479526.2				9.4		20.0			
PCB-1254 Peak 5	24650900 32479964	27451390	36811552	32681030	Ave		30814967.2				15.5		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 12:11 Calibration End Date: 05/06/2015 13:26 Calibration ID: 23707

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/1	S0506101.D
Level 2	IC 180-140736/2	S0506102.D
Level 3	IC 180-140736/3	S0506103.D
Level 4	IC 180-140736/4	S0506104.D
Level 5	IC 180-140736/5	S0506105.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 3	Ave	+++++	539877	1897114	3277665	6774633	+++++	0.100	0.250	0.500	1.00
PCB-1221 Peak 1	Ave	99153	957789	3485795	5791282	11392090	0.0100	0.100	0.250	0.500	1.00
PCB-1221 Peak 2	Ave	220785	2211265	8075402	13307864	25654693	0.0100	0.100	0.250	0.500	1.00
PCB-1254 Peak 1	Ave	220324	2203893	7747524	13487119	26044465	0.0100	0.100	0.250	0.500	1.00
PCB-1254 Peak 2	Ave	266351	2969749	9975832	17369025	33474211	0.0100	0.100	0.250	0.500	1.00
PCB-1254 Peak 3	Ave	390515	3853840	13345147	23183544	45472714	0.0100	0.100	0.250	0.500	1.00
PCB-1254 Peak 4	Ave	287502	2464096	8044461	14346363	28135901	0.0100	0.100	0.250	0.500	1.00
PCB-1254 Peak 5	Ave	246509	2745139	9202888	16340515	32479964	0.0100	0.100	0.250	0.500	1.00

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506101.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-May-2015 12:11:19 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-001
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:32 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:21:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							M
1	3.314	3.316	-0.002	99153H	0.0100	0.008788	
1	3.484	3.485	-0.001	220785H	0.0100	0.008573	
1	2.719	2.744	-0.025	0H	0.0100	0	M
		Average of Peak Amounts =				0.008681	
2	3.189	3.189	0.000	59714H	0.0100	0.009269	
2	3.943	3.945	-0.002	72052H	0.0100	0.008678	
2	4.174	4.175	-0.001	148900H	0.0100	0.008986	
		Average of Peak Amounts =				0.008978	
						RPD = 3.36	
7 PCB-1254							
1	5.465	5.466	-0.001	220324H	0.0100	0.008601	
1	5.849	5.849	0.000	266351H	0.0100	0.008098	
1	6.482	6.482	0.000	390515H	0.0100	0.008763	
1	7.295	7.296	-0.001	287502H	0.0100	0.0101	
1	7.843	7.842	0.001	246509H	0.0100	0.008000	
		Average of Peak Amounts =				0.008711	
2	6.979	6.982	-0.003	186897H	0.0100	0.009561	
2	7.334	7.337	-0.003	209264H	0.0100	0.009844	
2	8.281	8.283	-0.002	283056H	0.0100	0.009364	
2	9.358	9.355	0.003	170636H	0.0100	0.009557	
2	9.680	9.681	-0.001	276702H	0.0100	0.0103	
		Average of Peak Amounts =				0.009715	
						RPD = 10.89	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR2154CALL1_00011 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506101.D

Injection Date: 06-May-2015 12:11:19 Instrument ID: CHGC10

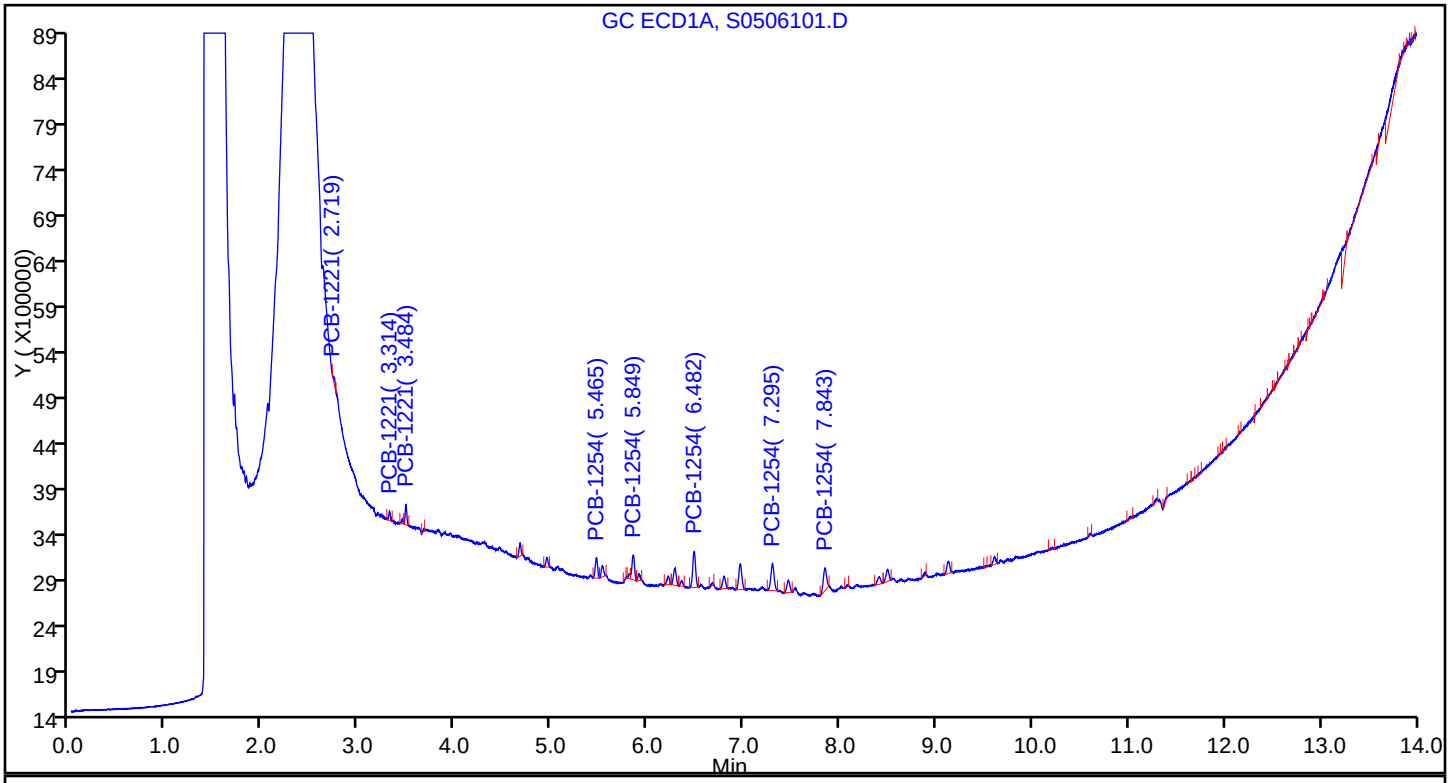
Lims ID: IC

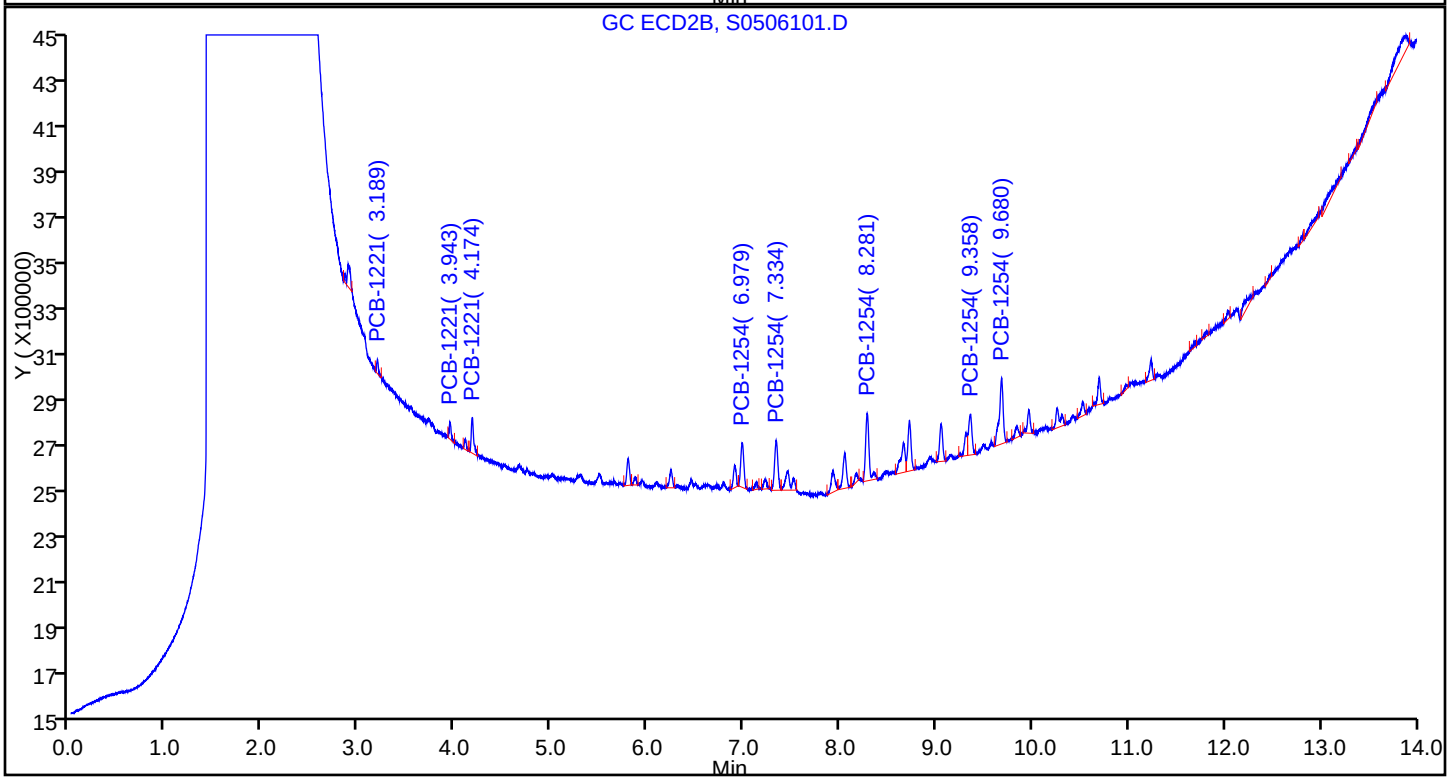
Client ID:

Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



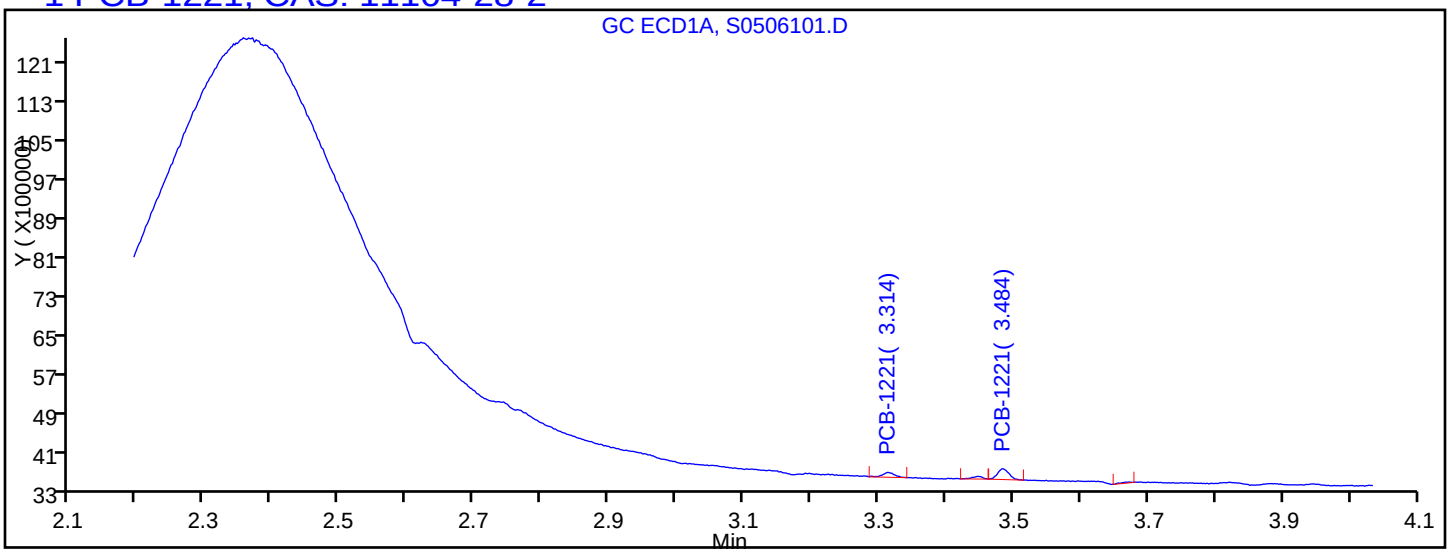


Report Date: 07-May-2015 07:33:33 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

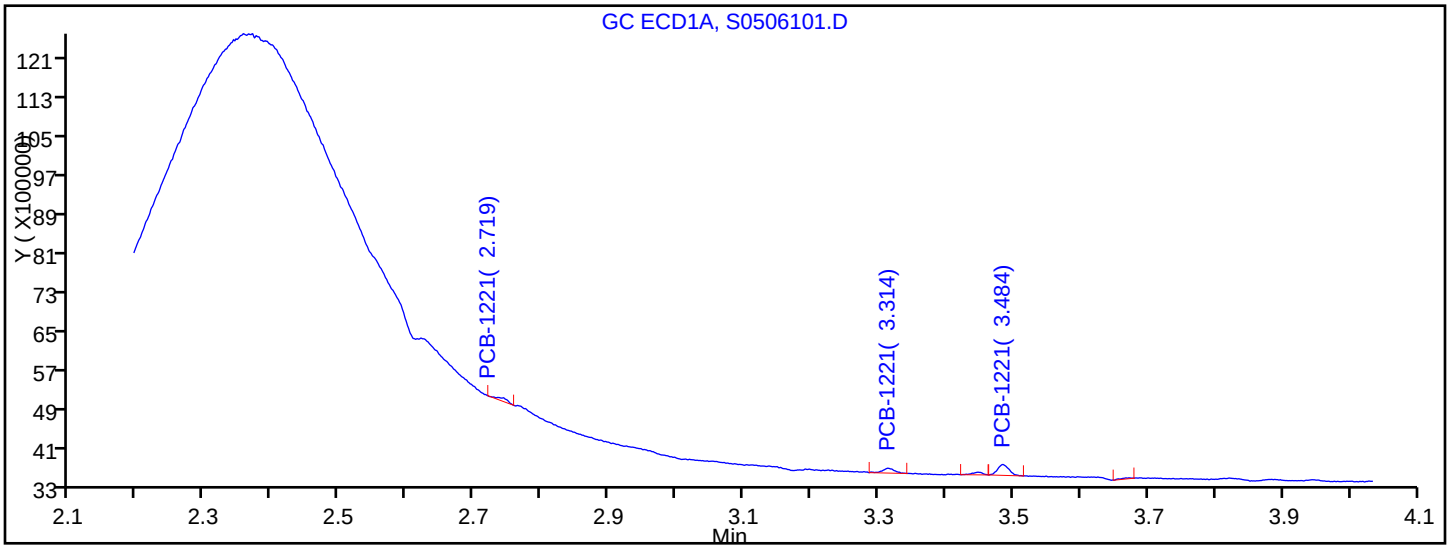
Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506101.D
Injection Date: 06-May-2015 12:11:19 Instrument ID: CHGC10
Lims ID: IC
Client ID:
Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL
Column: Detector GC ECD1A

1 PCB-1221, CAS: 11104-28-2



Processing Integration Results

RT = 3.314 Response = 99153
RT = 3.484 Response = 220785
RT = 0.000 Response = 0 M



Manual Integration Results

RT = 3.314 Response = 99153
RT = 3.484 Response = 220785
RT = 2.719 Response = 0 M

Reviewer: oravecj, 07-May-2015 07:21:46
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Instrument noise

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506102.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-May-2015 12:30:05 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-002
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:30 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.315	3.316	-0.001	957789H	0.1000	0.0849	
1	3.484	3.485	-0.001	2211265H	0.1000	0.0859	
1	2.743	2.744	-0.001	539877H	0.1000	0.0821	
		Average of Peak Amounts =				0.0843	
2	3.189	3.189	0.000	578033H	0.1000	0.0897	
2	3.944	3.945	-0.001	753558H	0.1000	0.0908	
2	4.174	4.175	-0.001	1516600H	0.1000	0.0915	
		Average of Peak Amounts =				0.0907	
						RPD = 7.31	
7 PCB-1254							
1	5.464	5.466	-0.002	2203893H	0.1000	0.0860	
1	5.847	5.849	-0.002	2969749H	0.1000	0.0903	
1	6.479	6.482	-0.003	3853840H	0.1000	0.0865	
1	7.294	7.296	-0.002	2464096H	0.1000	0.0865	
1	7.842	7.842	0.000	2745139H	0.1000	0.0891	
		Average of Peak Amounts =				0.0877	
2	6.981	6.982	-0.001	1784608H	0.1000	0.0913	
2	7.334	7.337	-0.003	1941585H	0.1000	0.0913	
2	8.280	8.283	-0.003	2767017H	0.1000	0.0915	
2	9.352	9.355	-0.003	1631671H	0.1000	0.0914	
2	9.679	9.681	-0.002	2434271H	0.1000	0.0902	
		Average of Peak Amounts =				0.0911	
						RPD = 3.87	

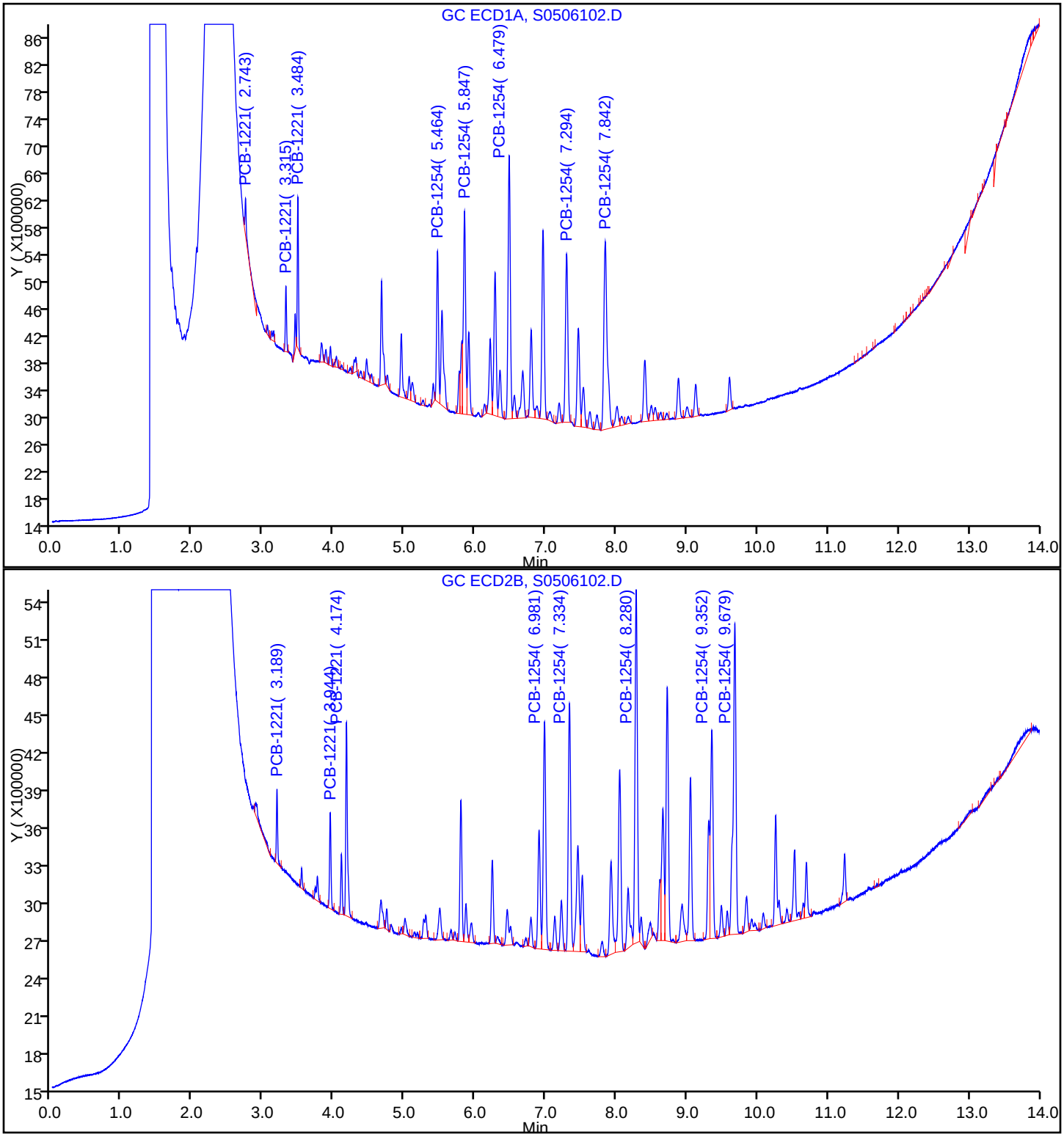
Reagents:

GCAR2154CALL2_00008 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:30 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506102.D				
Injection Date:	06-May-2015 12:30:05	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506103.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 06-May-2015 12:48:52 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-003
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:27 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.317	3.316	0.001	3485795H	0.2500	0.3090	
1	3.485	3.485	0.000	8075402H	0.2500	0.3136	
1	2.744	2.744	0.000	1897114H	0.2500	0.2883	
		Average of Peak Amounts =				0.3036	
2	3.190	3.189	0.001	1951459H	0.2500	0.3029	
2	3.945	3.945	0.000	2578284H	0.2500	0.3105	
2	4.176	4.175	0.001	5126024H	0.2500	0.3093	
		Average of Peak Amounts =				0.3076	
						RPD = 1.30	
7 PCB-1254							
1	5.465	5.466	-0.001	7747524H	0.2500	0.3024	
1	5.849	5.849	0.000	9975832H	0.2500	0.3033	
1	6.483	6.482	0.001	13345147H	0.2500	0.2995	
1	7.298	7.296	0.002	8044461H	0.2500	0.2825	
1	7.844	7.842	0.002	9202888H	0.2500	0.2986	
		Average of Peak Amounts =				0.2973	
2	6.984	6.982	0.002	5815667H	0.2500	0.2975	
2	7.337	7.337	0.000	6255049H	0.2500	0.2942	
2	8.282	8.283	-0.001	8975495H	0.2500	0.2969	
2	9.356	9.355	0.001	5216659H	0.2500	0.2922	
2	9.682	9.681	0.001	7705542H	0.2500	0.2855	
		Average of Peak Amounts =				0.2933	
						RPD = 1.36	

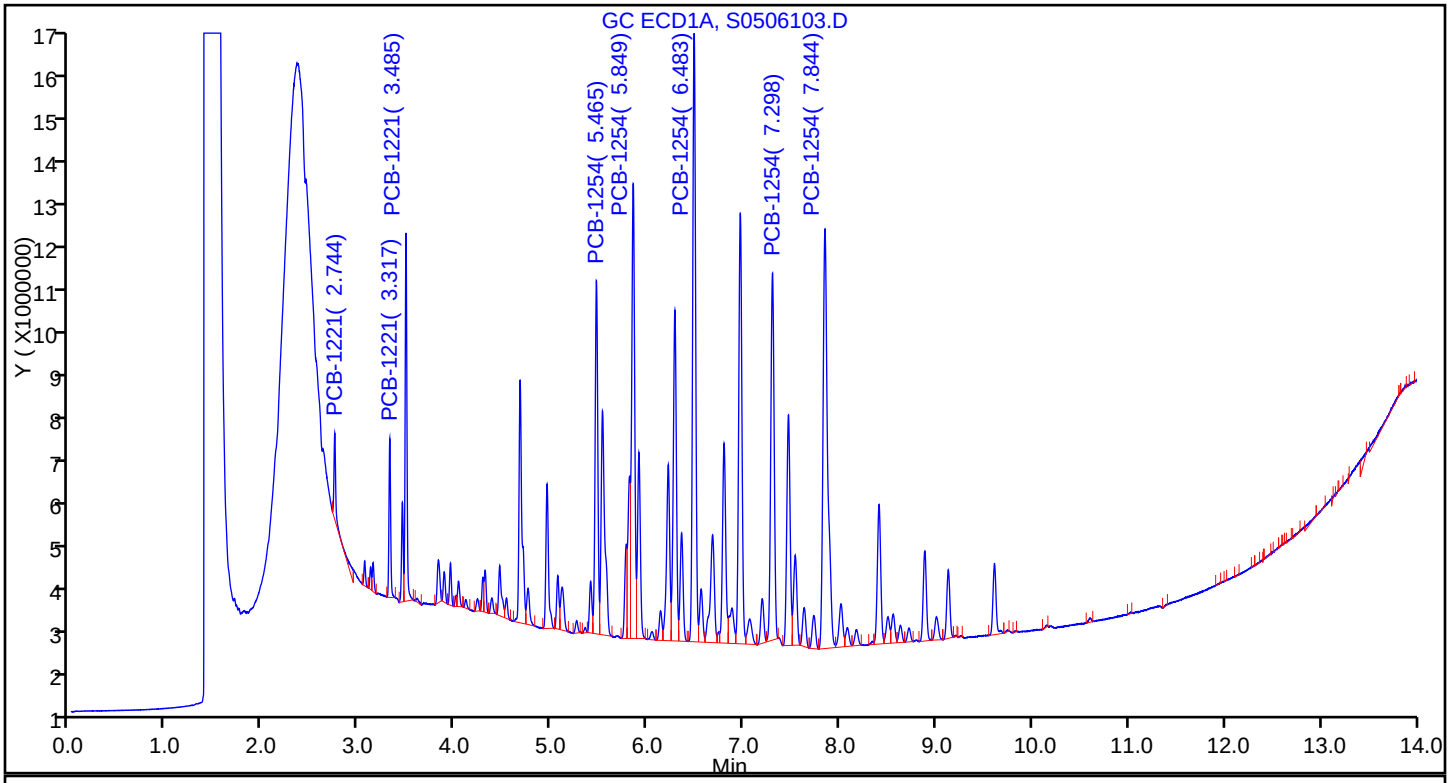
Reagents:

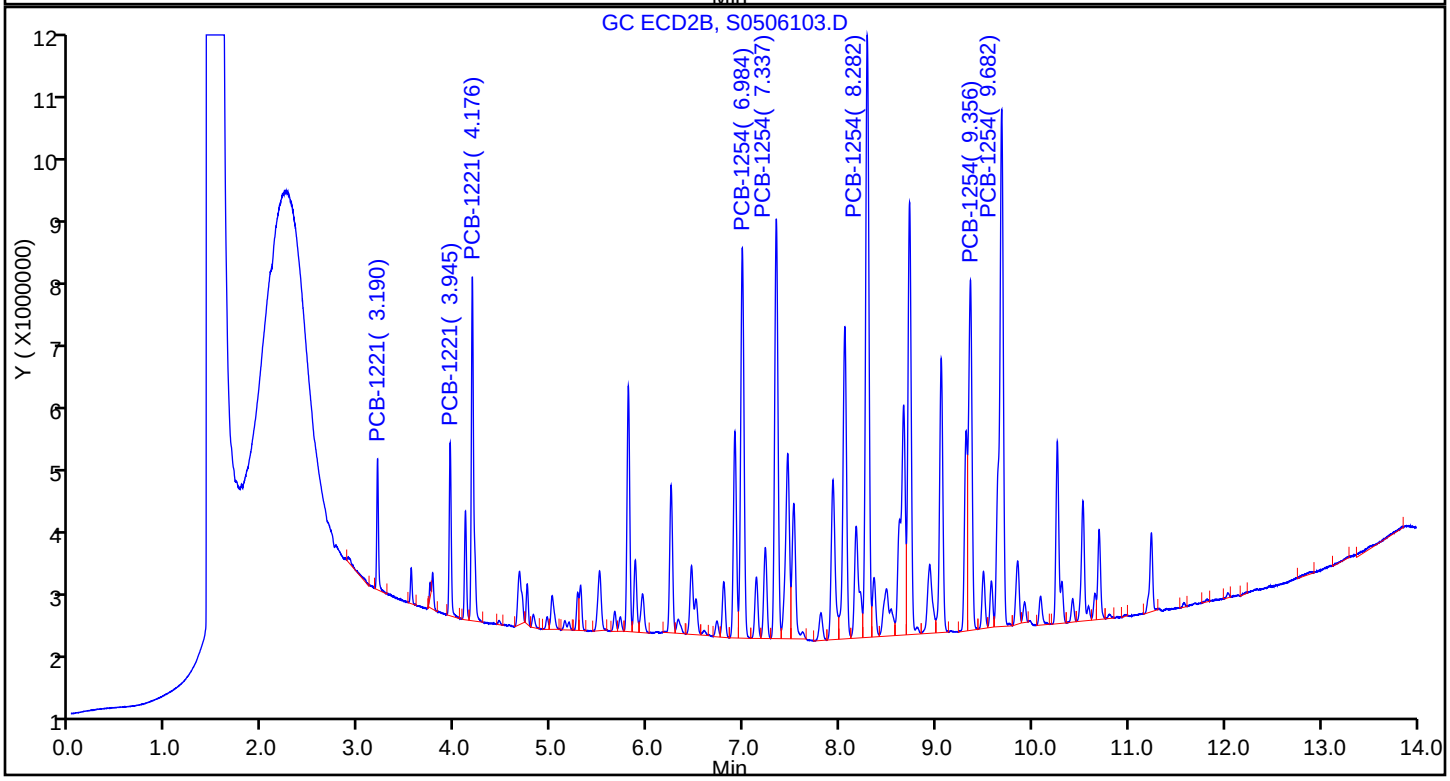
GCAR2154CALL3_00008 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506103.D				
Injection Date:	06-May-2015 12:48:52	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506104.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-May-2015 13:07:37 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-004
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:24 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:25:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.316	3.316	0.000	5791282H	0.5000	0.5133	
1	3.485	3.485	0.000	13307864H	0.5000	0.5168	
1	2.744	2.744	0.000	3277665H	0.5000	0.4982	
		Average of Peak Amounts =				0.5094	
2	3.189	3.189	0.000	3187600H	0.5000	0.4948	
2	3.945	3.945	0.000	4169605H	0.5000	0.5022	
2	4.175	4.175	0.000	8274753H	0.5000	0.4994	
		Average of Peak Amounts =				0.4988	
						RPD = 2.11	
7 PCB-1254							
1	5.466	5.466	0.000	13487119H	0.5000	0.5265	
1	5.849	5.849	0.000	17369025H	0.5000	0.5281	
1	6.482	6.482	0.000	23183544H	0.5000	0.5203	
1	7.296	7.296	0.000	14346363H	0.5000	0.5037	
1	7.842	7.842	0.000	16340515H	0.5000	0.5303	
		Average of Peak Amounts =				0.5218	
2	6.982	6.982	0.000	9757920H	0.5000	0.4992	
2	7.337	7.337	0.000	10504788H	0.5000	0.4942	
2	8.283	8.283	0.000	15281942H	0.5000	0.5056	
2	9.355	9.355	0.000	8986881H	0.5000	0.5033	
2	9.681	9.681	0.000	13427499H	0.5000	0.4974	
		Average of Peak Amounts =				0.4999	
						RPD = 4.28	

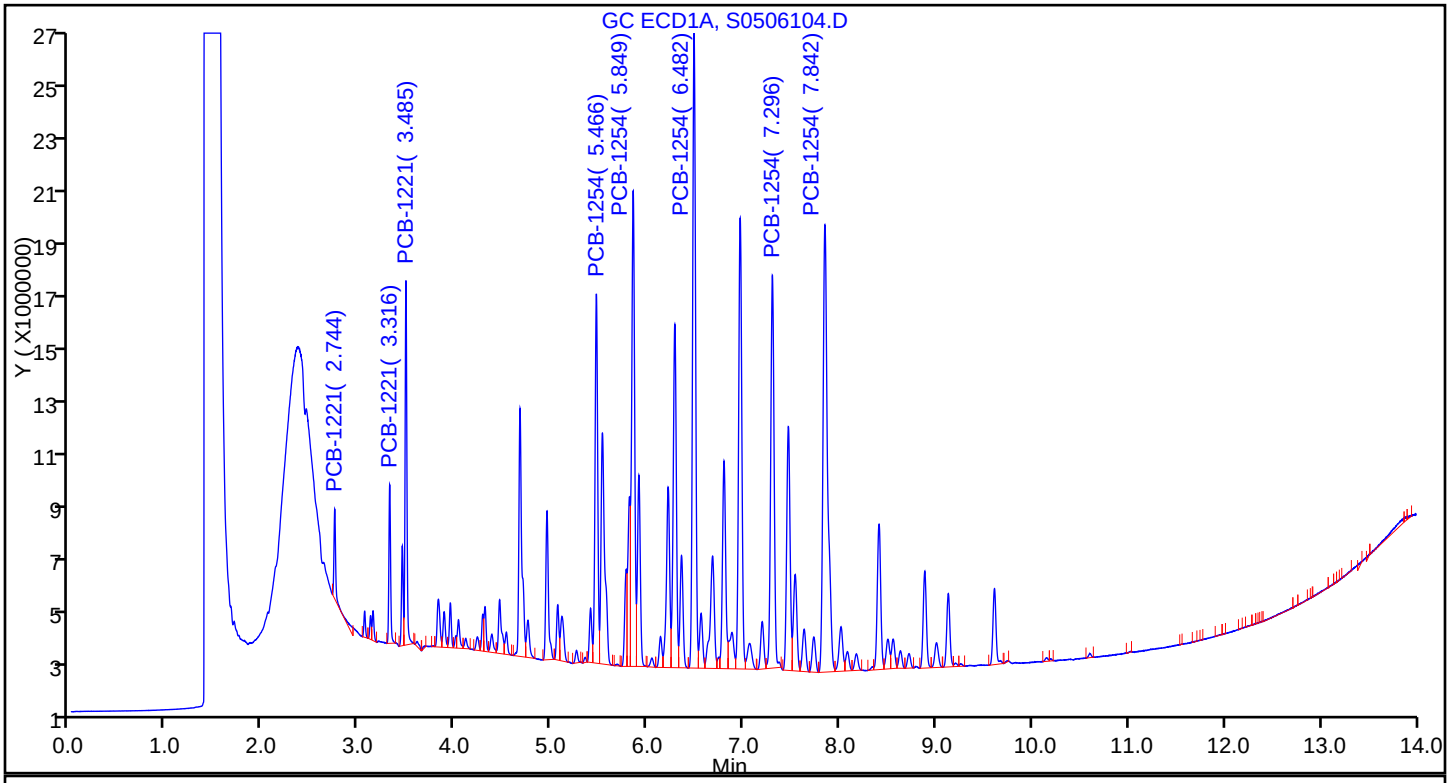
Reagents:

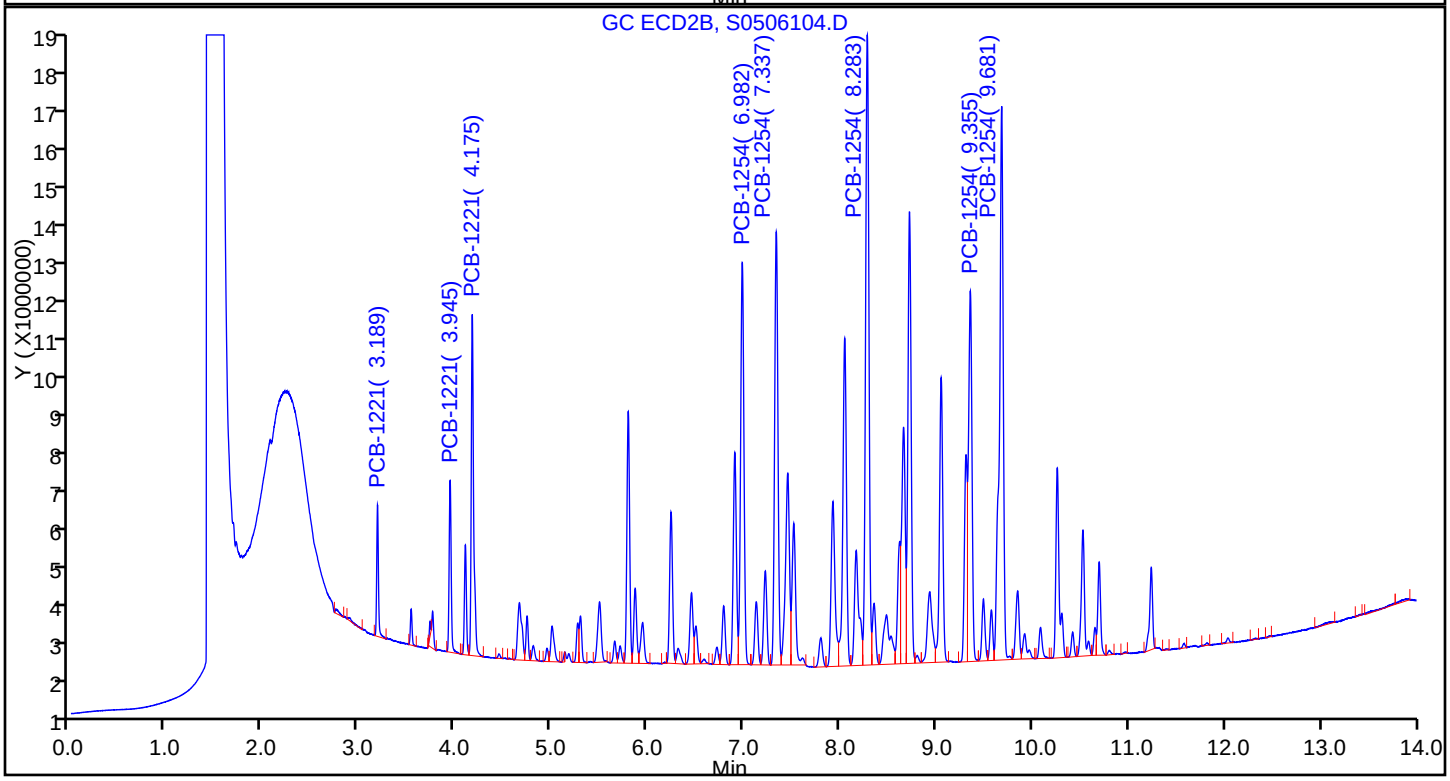
GCAR2154CALL4_00008 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:25 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506104.D				
Injection Date:	06-May-2015 13:07:37	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506105.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-May-2015 13:26:23 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-005
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:22 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:23:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.317	3.316	0.001	11392090H	1.00	1.01	
1	3.486	3.485	0.001	25654693H	1.00	1.00	
1	2.745	2.744	0.001	6774633H	1.00	1.03	
		Average of Peak Amounts =				1.01	
2	3.190	3.189	0.001	6278221H	1.00	0.9745	
2	3.945	3.945	0.000	8121227H	1.00	0.9781	
2	4.176	4.175	0.001	15745479H	1.00	0.9502	
		Average of Peak Amounts =				0.9676	
						RPD = 4.47	
7 PCB-1254							
1	5.467	5.466	0.001	26044465H	1.00	1.02	
1	5.850	5.849	0.001	33474211H	1.00	1.02	
1	6.483	6.482	0.001	45472714H	1.00	1.02	
1	7.296	7.296	0.000	28135901H	1.00	0.9879	
1	7.845	7.842	0.003	32479964H	1.00	1.05	
		Average of Peak Amounts =				1.02	
2	6.985	6.982	0.003	18427694H	1.00	0.9427	
2	7.338	7.337	0.001	19918539H	1.00	0.9370	
2	8.283	8.283	0.000	28698432H	1.00	0.9494	
2	9.356	9.355	0.001	17051560H	1.00	0.9550	
2	9.682	9.681	0.001	25281137H	1.00	0.9365	
		Average of Peak Amounts =				0.9441	
						RPD = 7.67	

Reagents:

GCAR2154CALL5_00008 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:22 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506105.D

Injection Date: 06-May-2015 13:26:23 Instrument ID: CHGC10

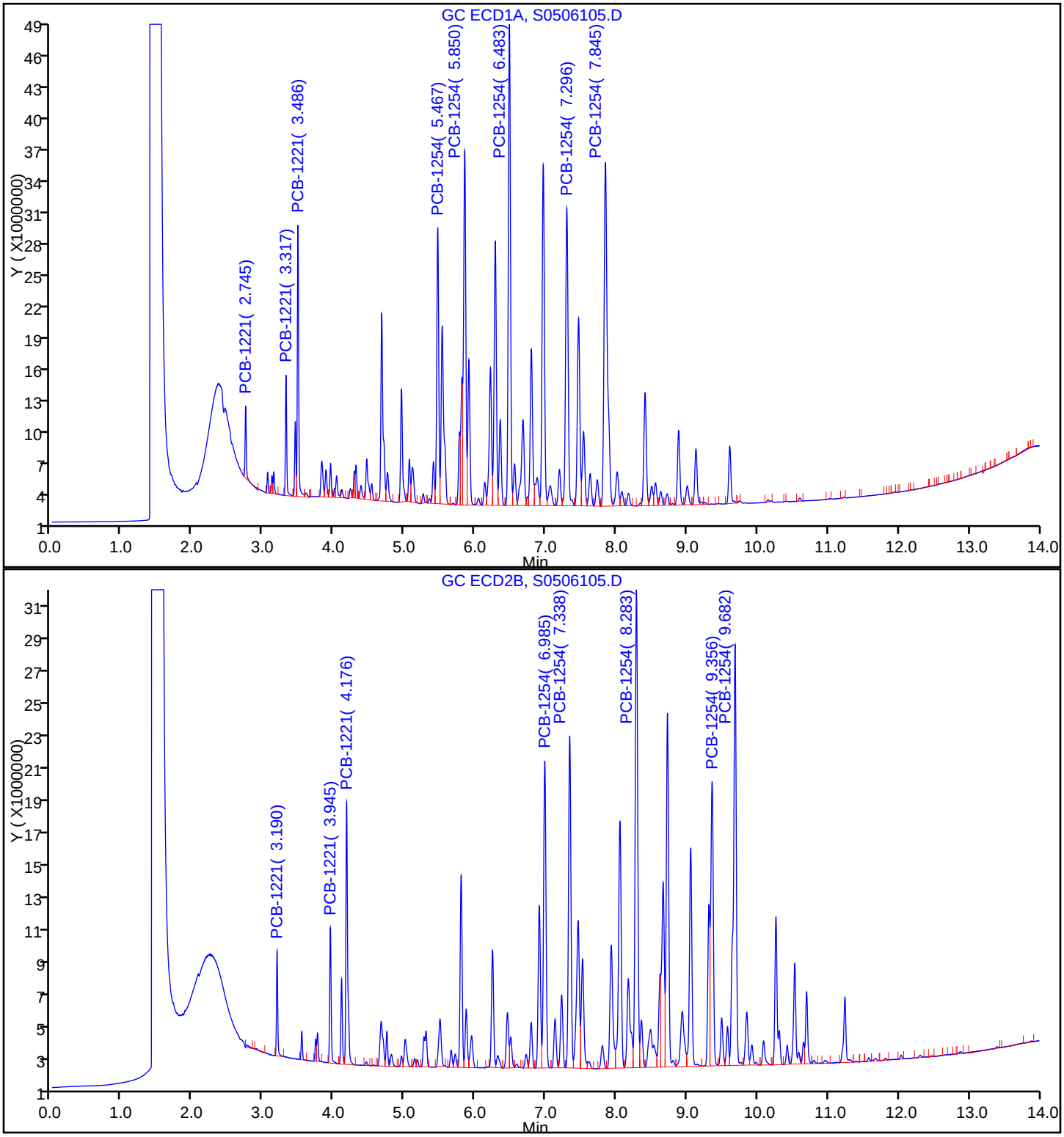
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 12:11 Calibration End Date: 05/06/2015 13:26 Calibration ID: 23708

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/1	S0506101.D
Level 2	IC 180-140736/2	S0506102.D
Level 3	IC 180-140736/3	S0506103.D
Level 4	IC 180-140736/4	S0506104.D
Level 5	IC 180-140736/5	S0506105.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
PCB-1221 Peak 1	3.189	3.189	3.190	3.189	3.190						3.139 - 3.239	3.189
PCB-1221 Peak 2	3.943	3.944	3.945	3.945	3.945						3.895 - 3.995	3.944
PCB-1221 Peak 3	4.174	4.174	4.176	4.175	4.176						4.125 - 4.225	4.175
PCB-1254 Peak 1	6.979	6.981	6.984	6.982	6.985						6.912 - 7.052	6.982
PCB-1254 Peak 2	7.334	7.334	7.337	7.337	7.338						7.267 - 7.407	7.336
PCB-1254 Peak 3	8.281	8.280	8.282	8.283	8.283						8.213 - 8.353	8.282
PCB-1254 Peak 4	9.358	9.352	9.356	9.355	9.356						9.285 - 9.425	9.355
PCB-1254 Peak 5	9.680	9.679	9.682	9.681	9.682						9.611 - 9.751	9.681

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 12:11 Calibration End Date: 05/06/2015 13:26 Calibration ID: 23708

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/1	S0506101.D
Level 2	IC 180-140736/2	S0506102.D
Level 3	IC 180-140736/3	S0506103.D
Level 4	IC 180-140736/4	S0506104.D
Level 5	IC 180-140736/5	S0506105.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	5971400 6278221	5780330	7805836	6375200	Ave		6442197.40				12.4		20.0			
PCB-1221 Peak 2	7205200 8121227	7535580	10313136	8339210	Ave		8302870.60				14.6		20.0			
PCB-1221 Peak 3	14890000 15745479	15166000	20504096	16549506	Ave		16571016.2				13.8		20.0			
PCB-1254 Peak 1	18689700 18427694	17846080	23262668	19515840	Ave		19548396.4				11.1		20.0			
PCB-1254 Peak 2	20926400 19918539	19415850	25020196	21009576	Ave		21258112.2				10.4		20.0			
PCB-1254 Peak 3	28305600 28698432	27670170	35901980	30563884	Ave		30228013.2				11.1		20.0			
PCB-1254 Peak 4	17063600 17051560	16316710	20866636	17973762	Ave		17854453.6				10.0		20.0			
PCB-1254 Peak 5	27670200 25281137	24342710	30822168	26854998	Ave		26994242.6				9.3		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 12:11 Calibration End Date: 05/06/2015 13:26 Calibration ID: 23708

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/1	S0506101.D
Level 2	IC 180-140736/2	S0506102.D
Level 3	IC 180-140736/3	S0506103.D
Level 4	IC 180-140736/4	S0506104.D
Level 5	IC 180-140736/5	S0506105.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	59714	578033	1951459	3187600	6278221	0.0100	0.100	0.250	0.500	1.00
PCB-1221 Peak 2	Ave	72052	753558	2578284	4169605	8121227	0.0100	0.100	0.250	0.500	1.00
PCB-1221 Peak 3	Ave	148900	1516600	5126024	8274753	15745479	0.0100	0.100	0.250	0.500	1.00
PCB-1254 Peak 1	Ave	186897	1784608	5815667	9757920	18427694	0.0100	0.100	0.250	0.500	1.00
PCB-1254 Peak 2	Ave	209264	1941585	6255049	10504788	19918539	0.0100	0.100	0.250	0.500	1.00
PCB-1254 Peak 3	Ave	283056	2767017	8975495	15281942	28698432	0.0100	0.100	0.250	0.500	1.00
PCB-1254 Peak 4	Ave	170636	1631671	5216659	8986881	17051560	0.0100	0.100	0.250	0.500	1.00
PCB-1254 Peak 5	Ave	276702	2434271	7705542	13427499	25281137	0.0100	0.100	0.250	0.500	1.00

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506101.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-May-2015 12:11:19 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-001
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:32 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:21:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							M
1	3.314	3.316	-0.002	99153H	0.0100	0.008788	
1	3.484	3.485	-0.001	220785H	0.0100	0.008573	
1	2.719	2.744	-0.025	0H	0.0100	0	M
		Average of Peak Amounts =				0.008681	
2	3.189	3.189	0.000	59714H	0.0100	0.009269	
2	3.943	3.945	-0.002	72052H	0.0100	0.008678	
2	4.174	4.175	-0.001	148900H	0.0100	0.008986	
		Average of Peak Amounts =				0.008978	
						RPD = 3.36	
7 PCB-1254							
1	5.465	5.466	-0.001	220324H	0.0100	0.008601	
1	5.849	5.849	0.000	266351H	0.0100	0.008098	
1	6.482	6.482	0.000	390515H	0.0100	0.008763	
1	7.295	7.296	-0.001	287502H	0.0100	0.0101	
1	7.843	7.842	0.001	246509H	0.0100	0.008000	
		Average of Peak Amounts =				0.008711	
2	6.979	6.982	-0.003	186897H	0.0100	0.009561	
2	7.334	7.337	-0.003	209264H	0.0100	0.009844	
2	8.281	8.283	-0.002	283056H	0.0100	0.009364	
2	9.358	9.355	0.003	170636H	0.0100	0.009557	
2	9.680	9.681	-0.001	276702H	0.0100	0.0103	
		Average of Peak Amounts =				0.009715	
						RPD = 10.89	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR2154CALL1_00011 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:33 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506101.D

Injection Date: 06-May-2015 12:11:19 Instrument ID: CHGC10

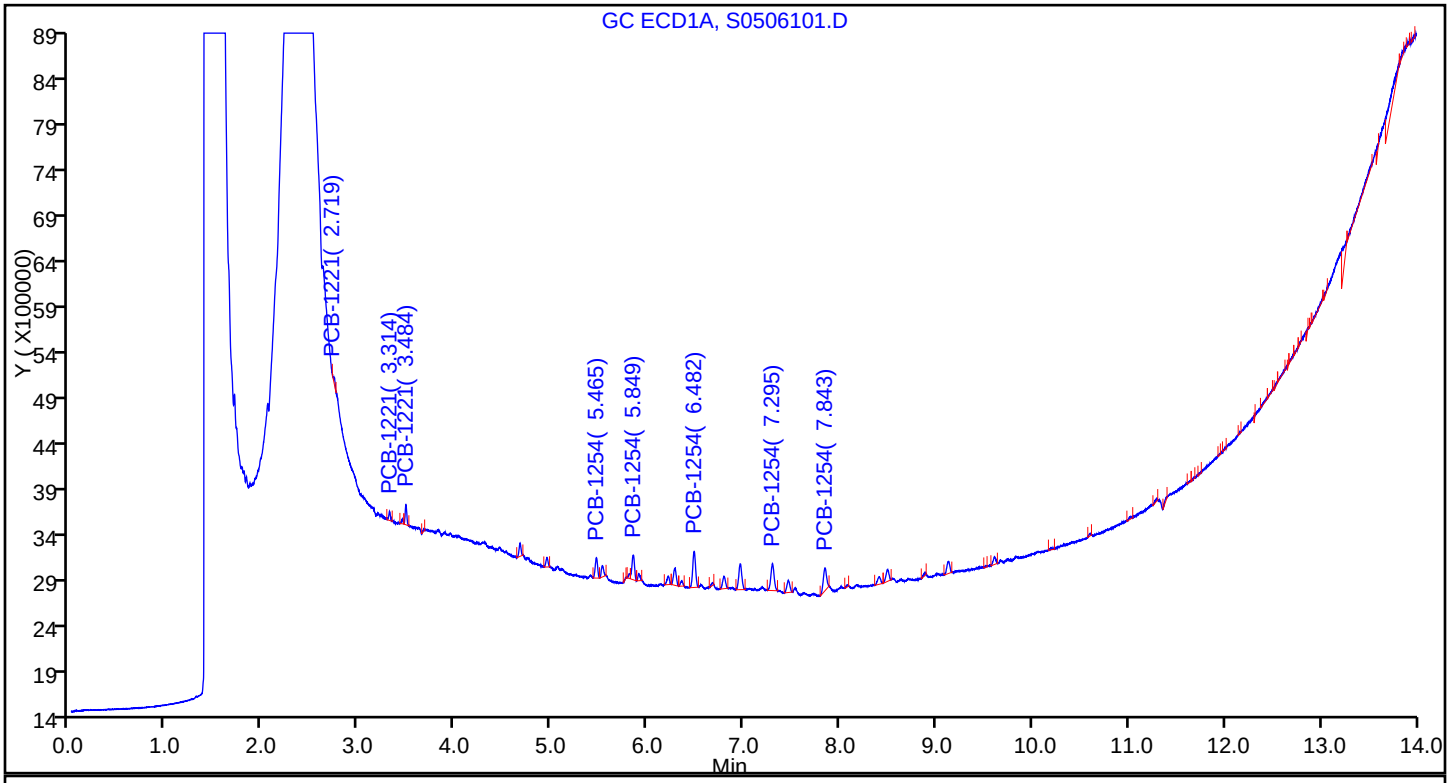
Lims ID: IC

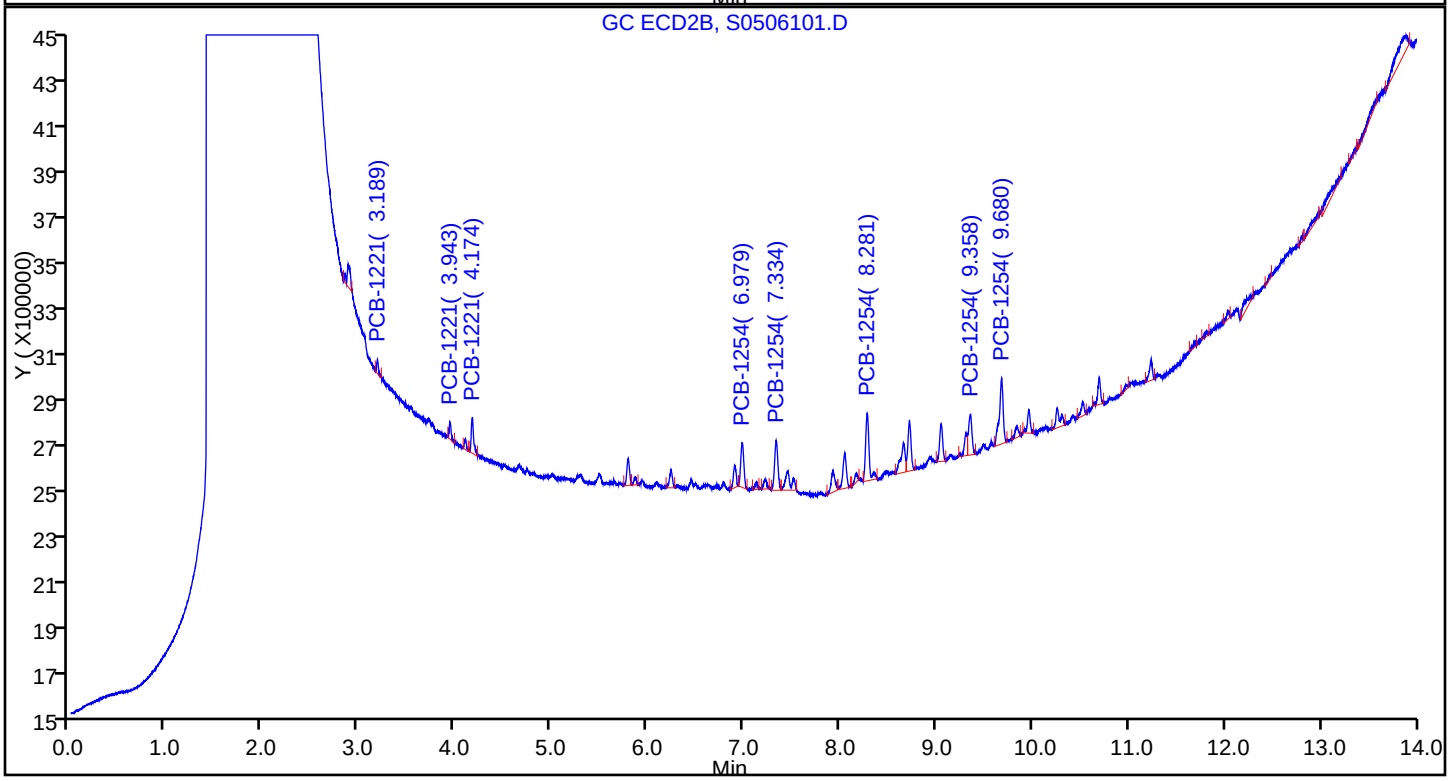
Client ID:

Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506102.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-May-2015 12:30:05 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-002
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:30 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.315	3.316	-0.001	957789H	0.1000	0.0849	
1	3.484	3.485	-0.001	2211265H	0.1000	0.0859	
1	2.743	2.744	-0.001	539877H	0.1000	0.0821	
		Average of Peak Amounts =				0.0843	
2	3.189	3.189	0.000	578033H	0.1000	0.0897	
2	3.944	3.945	-0.001	753558H	0.1000	0.0908	
2	4.174	4.175	-0.001	1516600H	0.1000	0.0915	
		Average of Peak Amounts =				0.0907	
						RPD = 7.31	
7 PCB-1254							
1	5.464	5.466	-0.002	2203893H	0.1000	0.0860	
1	5.847	5.849	-0.002	2969749H	0.1000	0.0903	
1	6.479	6.482	-0.003	3853840H	0.1000	0.0865	
1	7.294	7.296	-0.002	2464096H	0.1000	0.0865	
1	7.842	7.842	0.000	2745139H	0.1000	0.0891	
		Average of Peak Amounts =				0.0877	
2	6.981	6.982	-0.001	1784608H	0.1000	0.0913	
2	7.334	7.337	-0.003	1941585H	0.1000	0.0913	
2	8.280	8.283	-0.003	2767017H	0.1000	0.0915	
2	9.352	9.355	-0.003	1631671H	0.1000	0.0914	
2	9.679	9.681	-0.002	2434271H	0.1000	0.0902	
		Average of Peak Amounts =				0.0911	
						RPD = 3.87	

Reagents:

GCAR2154CALL2_00008 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:30 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506102.D

Injection Date: 06-May-2015 12:30:05 Instrument ID: CHGC10

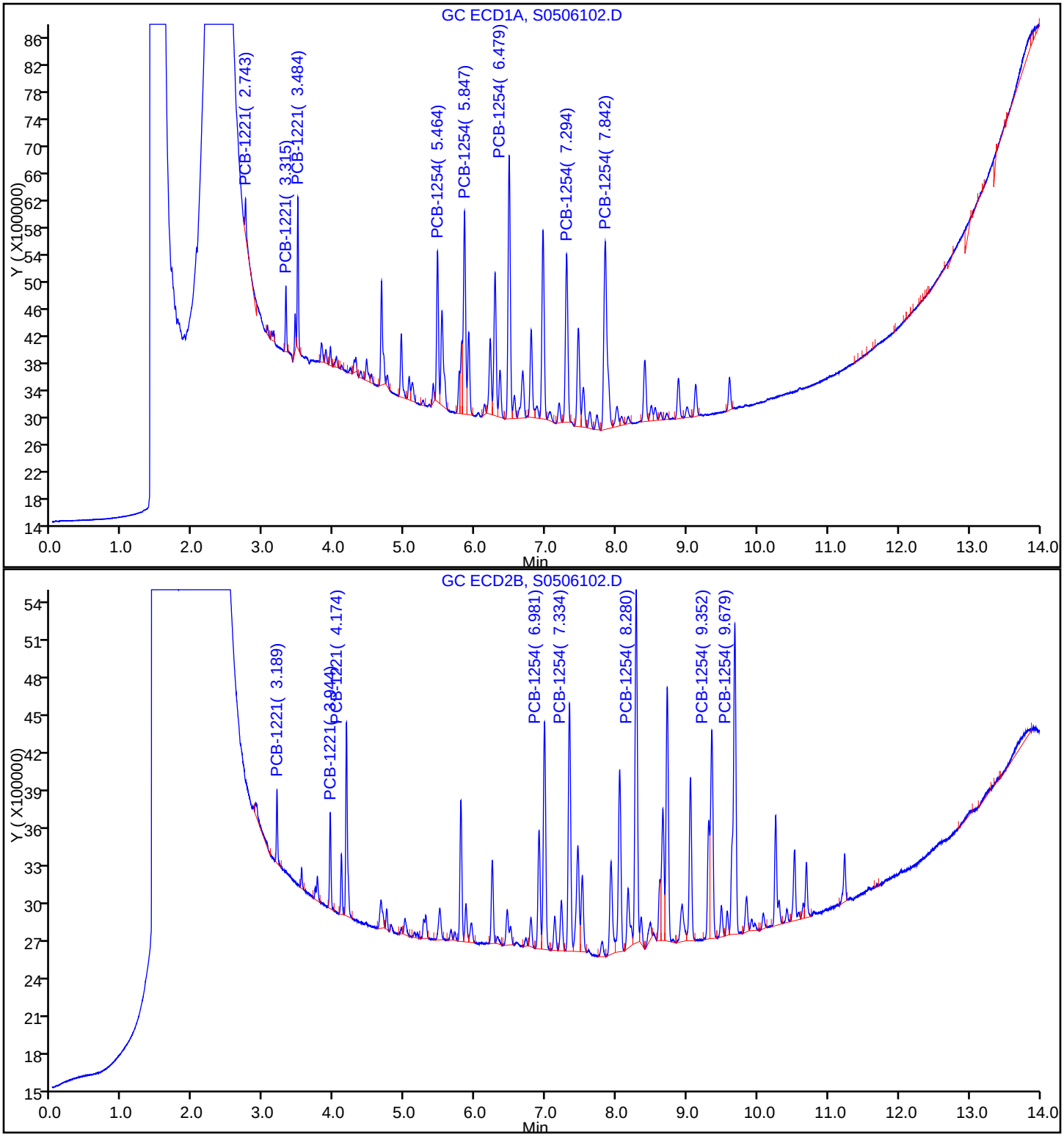
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506103.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 06-May-2015 12:48:52 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-003
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:27 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.317	3.316	0.001	3485795H	0.2500	0.3090	
1	3.485	3.485	0.000	8075402H	0.2500	0.3136	
1	2.744	2.744	0.000	1897114H	0.2500	0.2883	
		Average of Peak Amounts =				0.3036	
2	3.190	3.189	0.001	1951459H	0.2500	0.3029	
2	3.945	3.945	0.000	2578284H	0.2500	0.3105	
2	4.176	4.175	0.001	5126024H	0.2500	0.3093	
		Average of Peak Amounts =				0.3076	
						RPD = 1.30	
7 PCB-1254							
1	5.465	5.466	-0.001	7747524H	0.2500	0.3024	
1	5.849	5.849	0.000	9975832H	0.2500	0.3033	
1	6.483	6.482	0.001	13345147H	0.2500	0.2995	
1	7.298	7.296	0.002	8044461H	0.2500	0.2825	
1	7.844	7.842	0.002	9202888H	0.2500	0.2986	
		Average of Peak Amounts =				0.2973	
2	6.984	6.982	0.002	5815667H	0.2500	0.2975	
2	7.337	7.337	0.000	6255049H	0.2500	0.2942	
2	8.282	8.283	-0.001	8975495H	0.2500	0.2969	
2	9.356	9.355	0.001	5216659H	0.2500	0.2922	
2	9.682	9.681	0.001	7705542H	0.2500	0.2855	
		Average of Peak Amounts =				0.2933	
						RPD = 1.36	

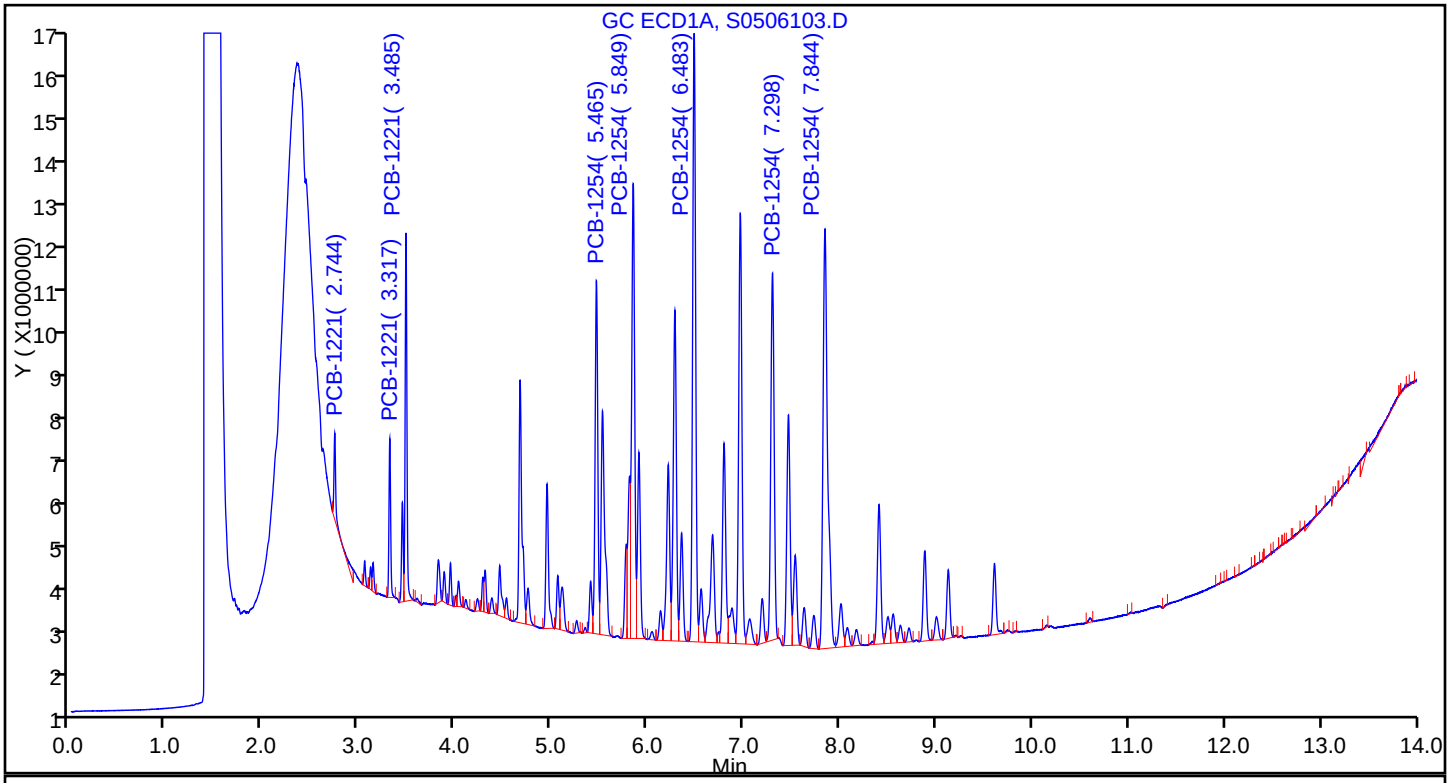
Reagents:

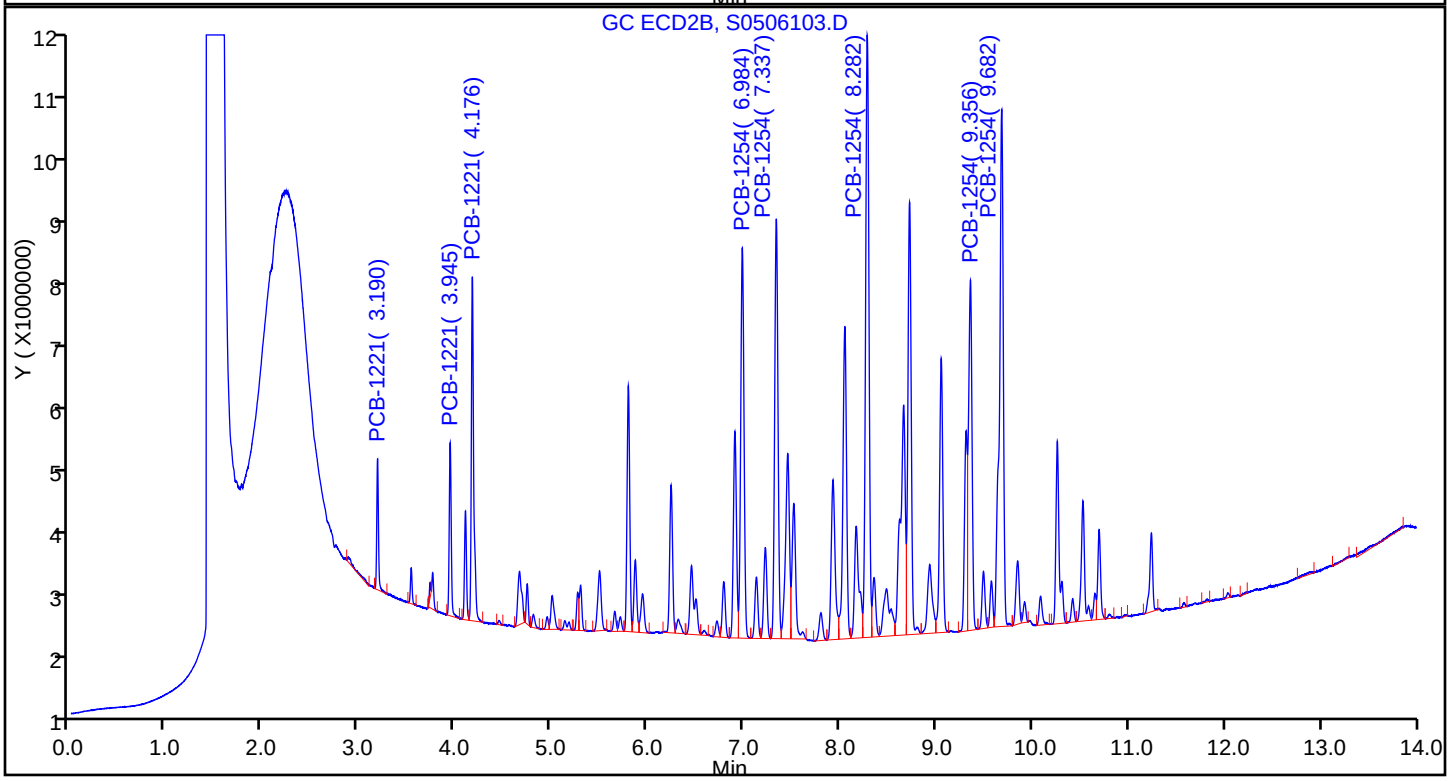
GCAR2154CALL3_00008 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506103.D				
Injection Date:	06-May-2015 12:48:52	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506104.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-May-2015 13:07:37 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-004
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:24 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:25:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.316	3.316	0.000	5791282H	0.5000	0.5133	
1	3.485	3.485	0.000	13307864H	0.5000	0.5168	
1	2.744	2.744	0.000	3277665H	0.5000	0.4982	
		Average of Peak Amounts =				0.5094	
2	3.189	3.189	0.000	3187600H	0.5000	0.4948	
2	3.945	3.945	0.000	4169605H	0.5000	0.5022	
2	4.175	4.175	0.000	8274753H	0.5000	0.4994	
		Average of Peak Amounts =				0.4988	
						RPD = 2.11	
7 PCB-1254							
1	5.466	5.466	0.000	13487119H	0.5000	0.5265	
1	5.849	5.849	0.000	17369025H	0.5000	0.5281	
1	6.482	6.482	0.000	23183544H	0.5000	0.5203	
1	7.296	7.296	0.000	14346363H	0.5000	0.5037	
1	7.842	7.842	0.000	16340515H	0.5000	0.5303	
		Average of Peak Amounts =				0.5218	
2	6.982	6.982	0.000	9757920H	0.5000	0.4992	
2	7.337	7.337	0.000	10504788H	0.5000	0.4942	
2	8.283	8.283	0.000	15281942H	0.5000	0.5056	
2	9.355	9.355	0.000	8986881H	0.5000	0.5033	
2	9.681	9.681	0.000	13427499H	0.5000	0.4974	
		Average of Peak Amounts =				0.4999	
						RPD = 4.28	

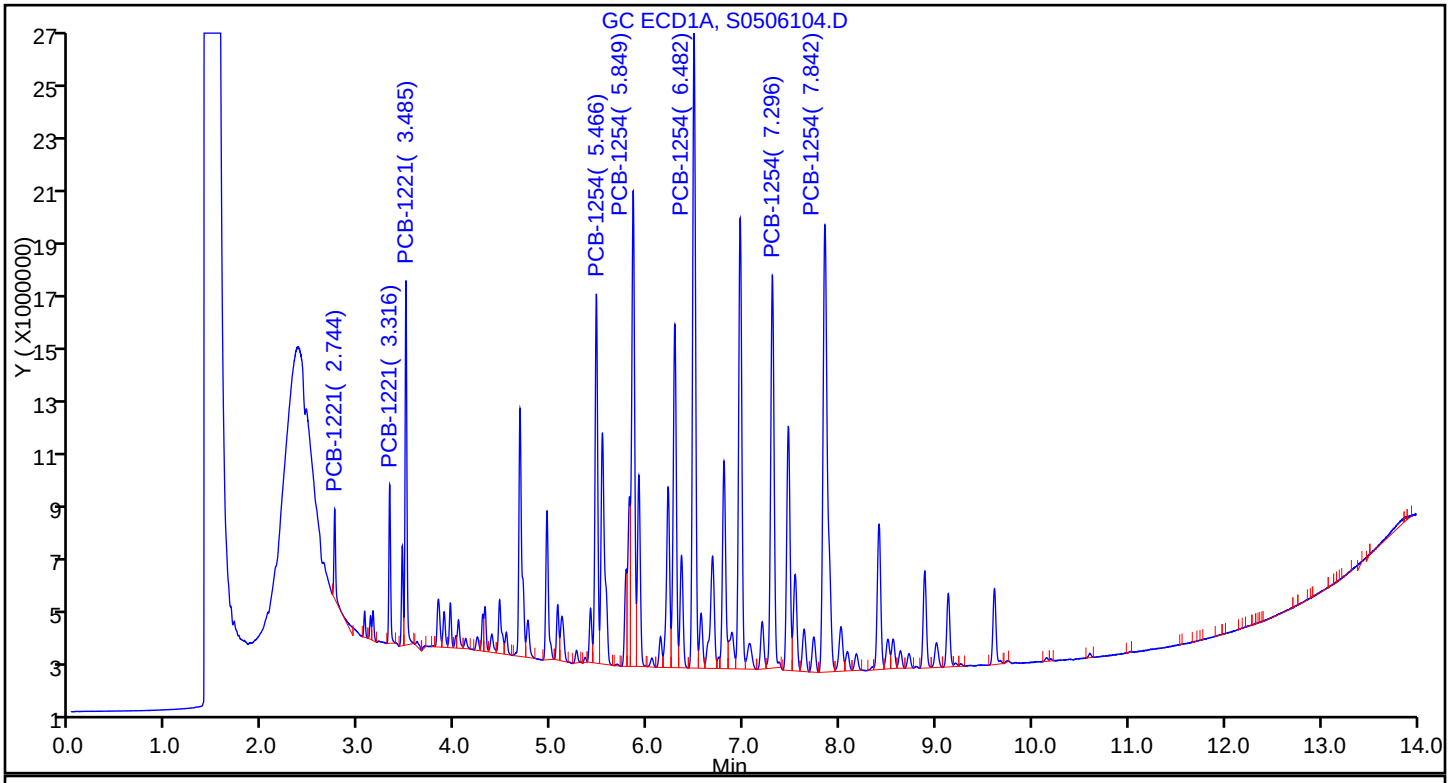
Reagents:

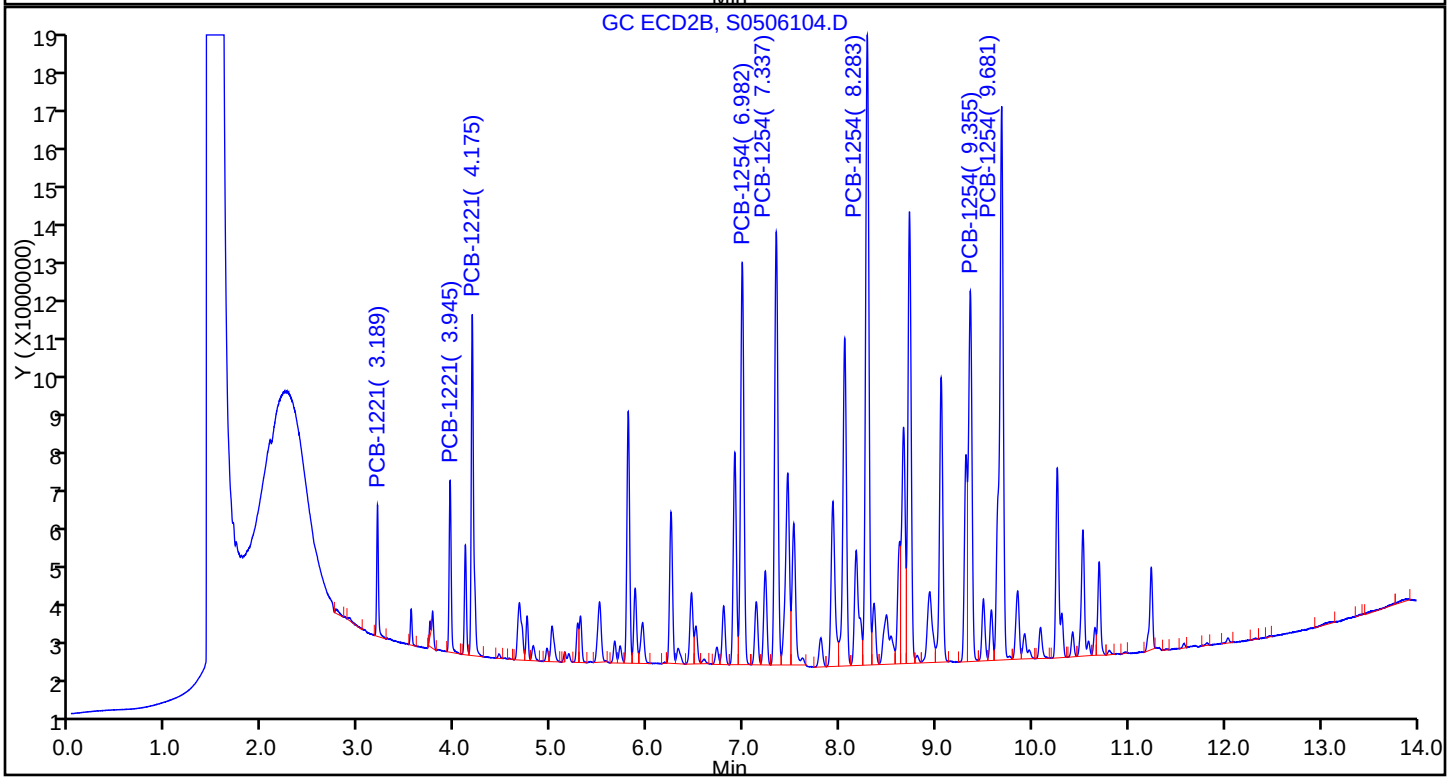
GCAR2154CALL4_00008 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:25 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506104.D				
Injection Date:	06-May-2015 13:07:37	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506105.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-May-2015 13:26:23 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-005
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub1

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:22 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:23:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.317	3.316	0.001	11392090H	1.00	1.01	
1	3.486	3.485	0.001	25654693H	1.00	1.00	
1	2.745	2.744	0.001	6774633H	1.00	1.03	
		Average of Peak Amounts =				1.01	
2	3.190	3.189	0.001	6278221H	1.00	0.9745	
2	3.945	3.945	0.000	8121227H	1.00	0.9781	
2	4.176	4.175	0.001	15745479H	1.00	0.9502	
		Average of Peak Amounts =				0.9676	
						RPD = 4.47	
7 PCB-1254							
1	5.467	5.466	0.001	26044465H	1.00	1.02	
1	5.850	5.849	0.001	33474211H	1.00	1.02	
1	6.483	6.482	0.001	45472714H	1.00	1.02	
1	7.296	7.296	0.000	28135901H	1.00	0.9879	
1	7.845	7.842	0.003	32479964H	1.00	1.05	
		Average of Peak Amounts =				1.02	
2	6.985	6.982	0.003	18427694H	1.00	0.9427	
2	7.338	7.337	0.001	19918539H	1.00	0.9370	
2	8.283	8.283	0.000	28698432H	1.00	0.9494	
2	9.356	9.355	0.001	17051560H	1.00	0.9550	
2	9.682	9.681	0.001	25281137H	1.00	0.9365	
		Average of Peak Amounts =				0.9441	
						RPD = 7.67	

Reagents:

GCAR2154CALL5_00008 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:22 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506105.D

Injection Date: 06-May-2015 13:26:23 Instrument ID: CHGC10

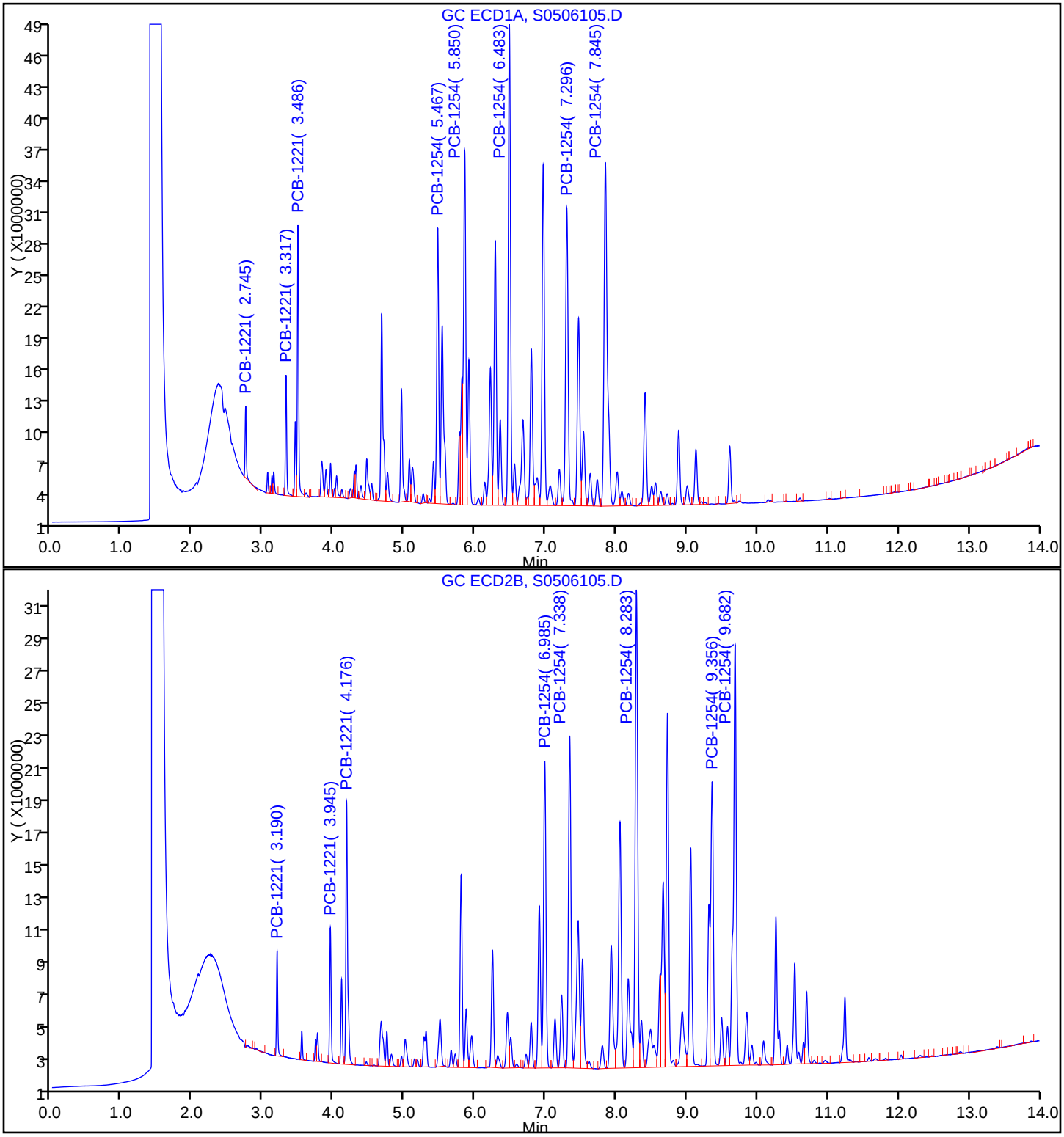
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 13:45 Calibration End Date: 05/06/2015 13:45 Calibration ID: 23737

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/6	S0506106.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	3.316										3.266 - 3.366	3.316
PCB-1232 Peak 2	3.485										3.435 - 3.535	3.485
PCB-1232 Peak 3	3.819										3.769 - 3.869	3.819
PCB-1232 Peak 4	4.308										4.258 - 4.358	4.308
PCB-1232 Peak 5	4.457										4.407 - 4.507	4.457
PCB-1262 Peak 1	6.791										6.741 - 6.841	6.791
PCB-1262 Peak 2	7.294										7.244 - 7.344	7.294
PCB-1262 Peak 3	8.550										8.500 - 8.600	8.550
PCB-1262 Peak 4	9.124										9.074 - 9.174	9.124
PCB-1262 Peak 5	9.604										9.554 - 9.654	9.604

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 13:45 Calibration End Date: 05/06/2015 13:45 Calibration ID: 23737

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/6	S0506106.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	8255678				Ave		8255678.00						20.0			
PCB-1232 Peak 2	23570130				Ave		23570130.0						20.0			
PCB-1232 Peak 3	13489122				Ave		13489122.0						20.0			
PCB-1232 Peak 4	19471420				Ave		19471420.0						20.0			
PCB-1232 Peak 5	12384810				Ave		12384810.0						20.0			
PCB-1262 Peak 1	27250066				Ave		27250066.0						20.0			
PCB-1262 Peak 2	36691198				Ave		36691198.0						20.0			
PCB-1262 Peak 3	43594472				Ave		43594472.0						20.0			
PCB-1262 Peak 4	98176018				Ave		98176018.0						20.0			
PCB-1262 Peak 5	36458384				Ave		36458384.0						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 13:45 Calibration End Date: 05/06/2015 13:45 Calibration ID: 23737

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/6	S0506106.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	4127839					0.500				
PCB-1232 Peak 2	Ave	11785065					0.500				
PCB-1232 Peak 3	Ave	6744561					0.500				
PCB-1232 Peak 4	Ave	9735710					0.500				
PCB-1232 Peak 5	Ave	6192405					0.500				
PCB-1262 Peak 1	Ave	13625033					0.500				
PCB-1262 Peak 2	Ave	18345599					0.500				
PCB-1262 Peak 3	Ave	21797236					0.500				
PCB-1262 Peak 4	Ave	49088009					0.500				
PCB-1262 Peak 5	Ave	18229192					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506106.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-May-2015 13:45:09 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-006
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub23

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:19 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:22:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
4 PCB-1232							
1	3.316	3.316	0.000	4127839H	0.5000	0.5000	
1	3.485	3.485	0.000	11785065H	0.5000	0.5000	
1	3.819	3.819	0.000	6744561H	0.5000	0.5000	
1	4.308	4.308	0.000	9735710H	0.5000	0.5000	
1	4.457	4.457	0.000	6192405H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.945	3.945	0.000	3063600H	0.5000	0.5000	
2	4.175	4.175	0.000	7440198H	0.5000	0.5000	
2	4.666	4.666	0.000	4447810H	0.5000	0.5000	
2	5.299	5.299	0.000	6359750H	0.5000	0.5000	
2	5.497	5.497	0.000	4027451H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
9 PCB-1262							
1	6.791	6.791	0.000	13625033H	0.5000	0.5000	
1	7.294	7.294	0.000	18345599H	0.5000	0.5000	
1	8.550	8.550	0.000	21797236H	0.5000	0.5000	
1	9.124	9.124	0.000	49088009H	0.5000	0.5000	
1	9.604	9.604	0.000	18229192H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	9.050	9.050	0.000	11824695H	0.5000	0.5000	
2	9.831	9.831	0.000	17869095H	0.5000	0.5000	
2	10.694	10.694	0.000	34757269H	0.5000	0.5000	
2	11.226	11.226	0.000	21427926H	0.5000	0.5000	
2	12.034	12.034	0.000	14436764H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

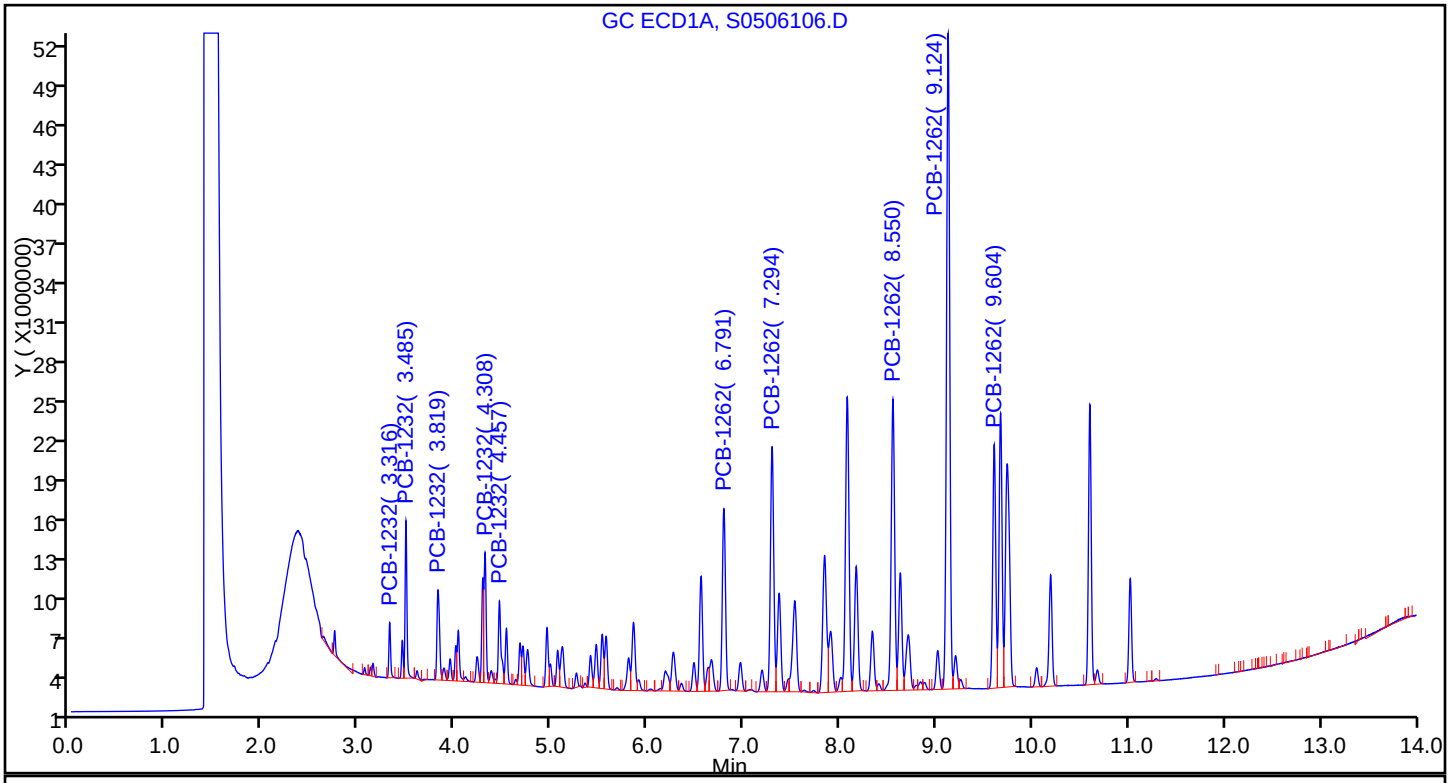
Reagents:

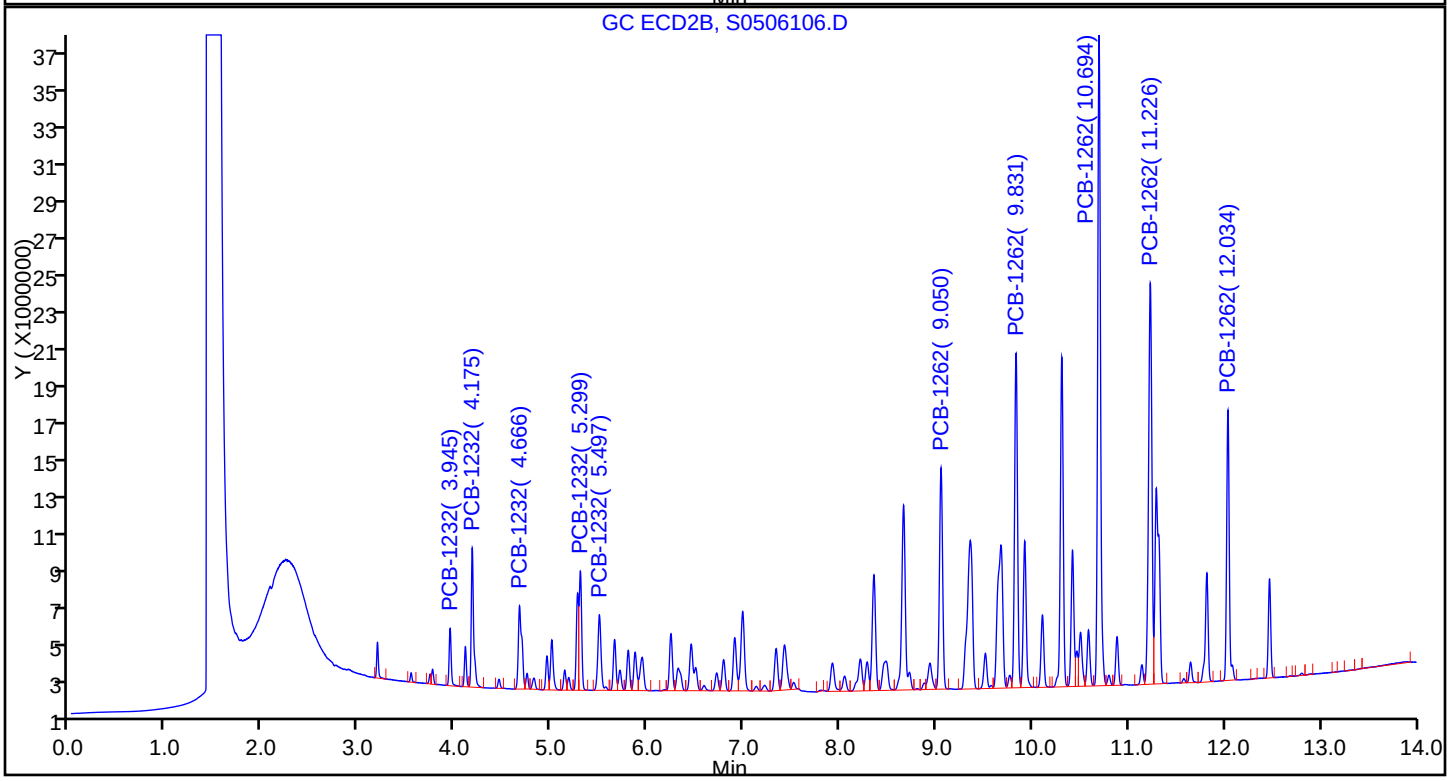
GCAR3262CALL4_00001 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506106.D				
Injection Date:	06-May-2015 13:45:09	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 13:45 Calibration End Date: 05/06/2015 13:45 Calibration ID: 23738

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/6	S0506106.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	3.945										3.895 - 3.995	3.945
PCB-1232 Peak 2	4.175										4.125 - 4.225	4.175
PCB-1232 Peak 3	4.666										4.616 - 4.716	4.666
PCB-1232 Peak 4	5.299										5.249 - 5.349	5.299
PCB-1232 Peak 5	5.497										5.447 - 5.547	5.497
PCB-1262 Peak 1	9.050										9.000 - 9.100	9.050
PCB-1262 Peak 2	9.831										9.781 - 9.881	9.831
PCB-1262 Peak 3	10.694										10.644 - 10.744	10.694
PCB-1262 Peak 4	11.226										11.176 - 11.276	11.226
PCB-1262 Peak 5	12.034										11.984 - 12.084	12.034

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 13:45 Calibration End Date: 05/06/2015 13:45 Calibration ID: 23738

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/6	S0506106.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	6127200				Ave		6127200.00						20.0			
PCB-1232 Peak 2	14880396				Ave		14880396.0						20.0			
PCB-1232 Peak 3	8895620				Ave		8895620.00						20.0			
PCB-1232 Peak 4	12719500				Ave		12719500.0						20.0			
PCB-1232 Peak 5	8054902				Ave		8054902.00						20.0			
PCB-1262 Peak 1	23649390				Ave		23649390.0						20.0			
PCB-1262 Peak 2	35738190				Ave		35738190.0						20.0			
PCB-1262 Peak 3	69514538				Ave		69514538.0						20.0			
PCB-1262 Peak 4	42855852				Ave		42855852.0						20.0			
PCB-1262 Peak 5	28873528				Ave		28873528.0						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 13:45 Calibration End Date: 05/06/2015 13:45 Calibration ID: 23738

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/6	S0506106.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	3063600					0.500				
PCB-1232 Peak 2	Ave	7440198					0.500				
PCB-1232 Peak 3	Ave	4447810					0.500				
PCB-1232 Peak 4	Ave	6359750					0.500				
PCB-1232 Peak 5	Ave	4027451					0.500				
PCB-1262 Peak 1	Ave	11824695					0.500				
PCB-1262 Peak 2	Ave	17869095					0.500				
PCB-1262 Peak 3	Ave	34757269					0.500				
PCB-1262 Peak 4	Ave	21427926					0.500				
PCB-1262 Peak 5	Ave	14436764					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506106.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-May-2015 13:45:09 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-006
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub23

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:19 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:22:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
4 PCB-1232							
1	3.316	3.316	0.000	4127839H	0.5000	0.5000	
1	3.485	3.485	0.000	11785065H	0.5000	0.5000	
1	3.819	3.819	0.000	6744561H	0.5000	0.5000	
1	4.308	4.308	0.000	9735710H	0.5000	0.5000	
1	4.457	4.457	0.000	6192405H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.945	3.945	0.000	3063600H	0.5000	0.5000	
2	4.175	4.175	0.000	7440198H	0.5000	0.5000	
2	4.666	4.666	0.000	4447810H	0.5000	0.5000	
2	5.299	5.299	0.000	6359750H	0.5000	0.5000	
2	5.497	5.497	0.000	4027451H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
9 PCB-1262							
1	6.791	6.791	0.000	13625033H	0.5000	0.5000	
1	7.294	7.294	0.000	18345599H	0.5000	0.5000	
1	8.550	8.550	0.000	21797236H	0.5000	0.5000	
1	9.124	9.124	0.000	49088009H	0.5000	0.5000	
1	9.604	9.604	0.000	18229192H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	9.050	9.050	0.000	11824695H	0.5000	0.5000	
2	9.831	9.831	0.000	17869095H	0.5000	0.5000	
2	10.694	10.694	0.000	34757269H	0.5000	0.5000	
2	11.226	11.226	0.000	21427926H	0.5000	0.5000	
2	12.034	12.034	0.000	14436764H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

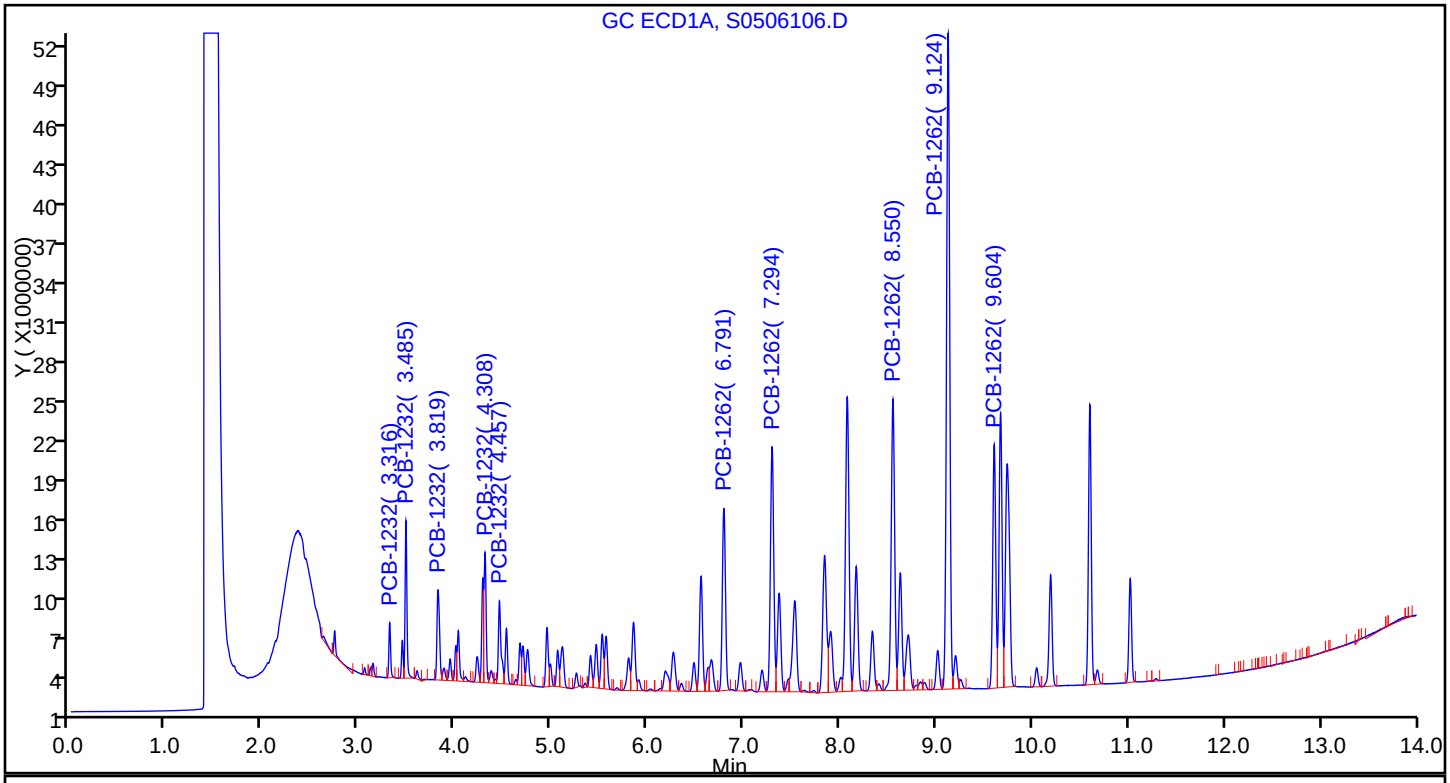
Reagents:

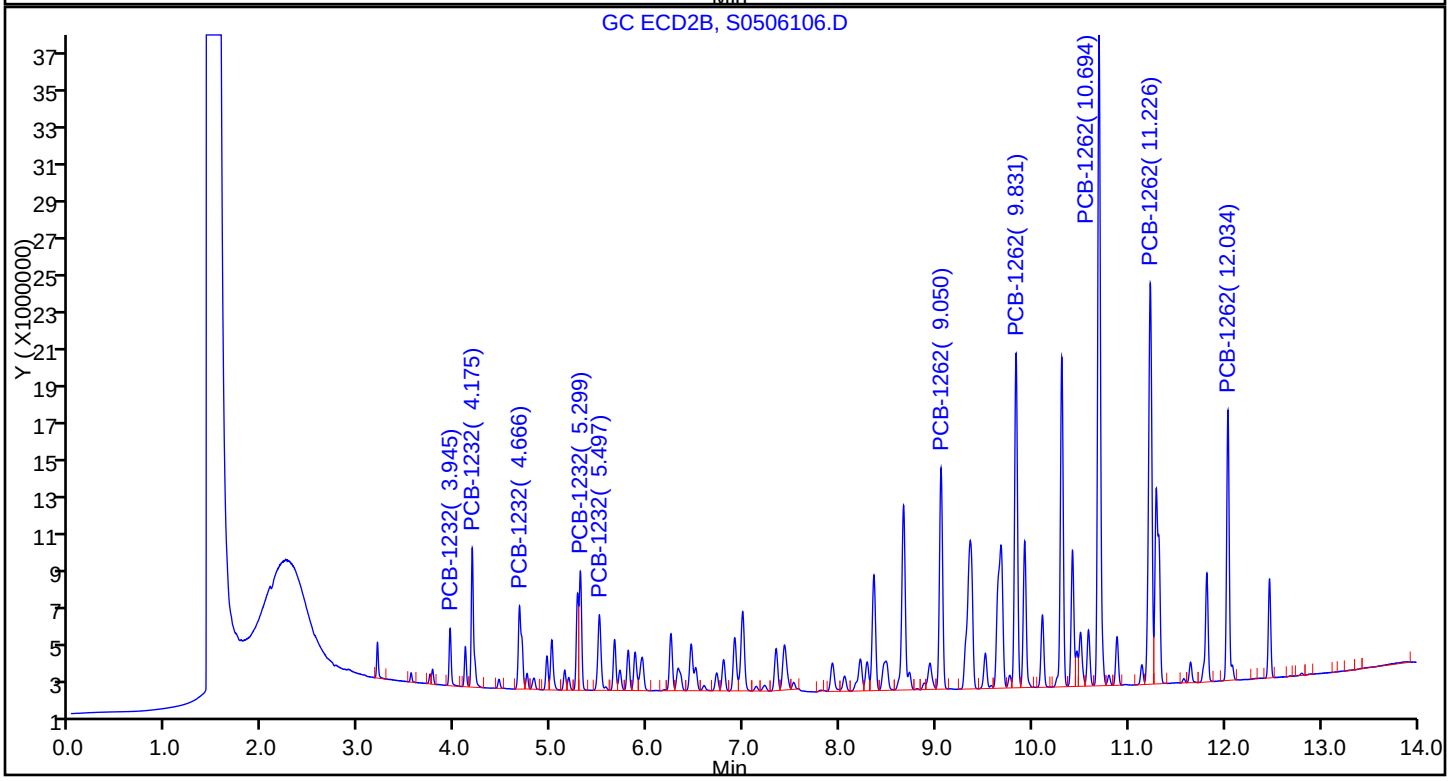
GCAR3262CALL4_00001 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506106.D				
Injection Date:	06-May-2015 13:45:09	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:03 Calibration End Date: 05/06/2015 14:03 Calibration ID: 23743

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/7	S0506107.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	3.818										3.768 - 3.868	3.818
PCB-1242 Peak 2	4.308										4.258 - 4.358	4.308
PCB-1242 Peak 3	4.457										4.407 - 4.507	4.457
PCB-1242 Peak 4	4.952										4.902 - 5.002	4.952
PCB-1242 Peak 5	5.527										5.477 - 5.577	5.527
PCB-1268 Peak 1	9.670										9.620 - 9.720	9.670
PCB-1268 Peak 2	10.045										9.995 - 10.095	10.045
PCB-1268 Peak 3	10.597										10.547 - 10.647	10.597
PCB-1268 Peak 4	11.018										10.968 - 11.068	11.018

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:03 Calibration End Date: 05/06/2015 14:03 Calibration ID: 23743

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/7	S0506107.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	23775300				Ave		23775300.0						20.0			
PCB-1242 Peak 2	35818808				Ave		35818808.0						20.0			
PCB-1242 Peak 3	21941212				Ave		21941212.0						20.0			
PCB-1242 Peak 4	17391994				Ave		17391994.0						20.0			
PCB-1242 Peak 5	16910180				Ave		16910180.0						20.0			
PCB-1268 Peak 1	115745852				Ave		115745852						20.0			
PCB-1268 Peak 2	97446728				Ave		97446728.0						20.0			
PCB-1268 Peak 3	44051120				Ave		44051120.0						20.0			
PCB-1268 Peak 4	342923058				Ave		342923058						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:03 Calibration End Date: 05/06/2015 14:03 Calibration ID: 23743

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/7	S0506107.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	11887650					0.500				
PCB-1242 Peak 2	Ave	17909404					0.500				
PCB-1242 Peak 3	Ave	10970606					0.500				
PCB-1242 Peak 4	Ave	8695997					0.500				
PCB-1242 Peak 5	Ave	8455090					0.500				
PCB-1268 Peak 1	Ave	57872926					0.500				
PCB-1268 Peak 2	Ave	48723364					0.500				
PCB-1268 Peak 3	Ave	22025560					0.500				
PCB-1268 Peak 4	Ave	171461529					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506107.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-May-2015 14:03:55 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-007
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub24

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:16 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:22:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
5 PCB-1242							
1	3.818	3.818	0.000	11887650H	0.5000	0.5000	
1	4.308	4.308	0.000	17909404H	0.5000	0.5000	
1	4.457	4.457	0.000	10970606H	0.5000	0.5000	
1	4.952	4.952	0.000	8695997H	0.5000	0.5000	
1	5.527	5.527	0.000	8455090H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.175	4.175	0.000	5589770H	0.5000	0.5000	
2	4.667	4.667	0.000	7526320H	0.5000	0.5000	
2	5.300	5.300	0.000	11272821H	0.5000	0.5000	
2	6.242	6.242	0.000	5854867H	0.5000	0.5000	
2	6.991	6.991	0.000	5867921H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
10 PCB-1268							
1	9.670	9.670	0.000	57872926H	0.5000	0.5000	
1	10.045	10.045	0.000	48723364H	0.5000	0.5000	
1	10.597	10.597	0.000	22025560H	0.5000	0.5000	
1	11.018	11.018	0.000	171461529H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	11.222	11.222	0.000	40653776H	0.5000	0.5000	
2	11.288	11.288	0.000	34045290H	0.5000	0.5000	
2	11.646	11.646	0.000	33209384H	0.5000	0.5000	
2	12.467	12.467	0.000	107335589H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

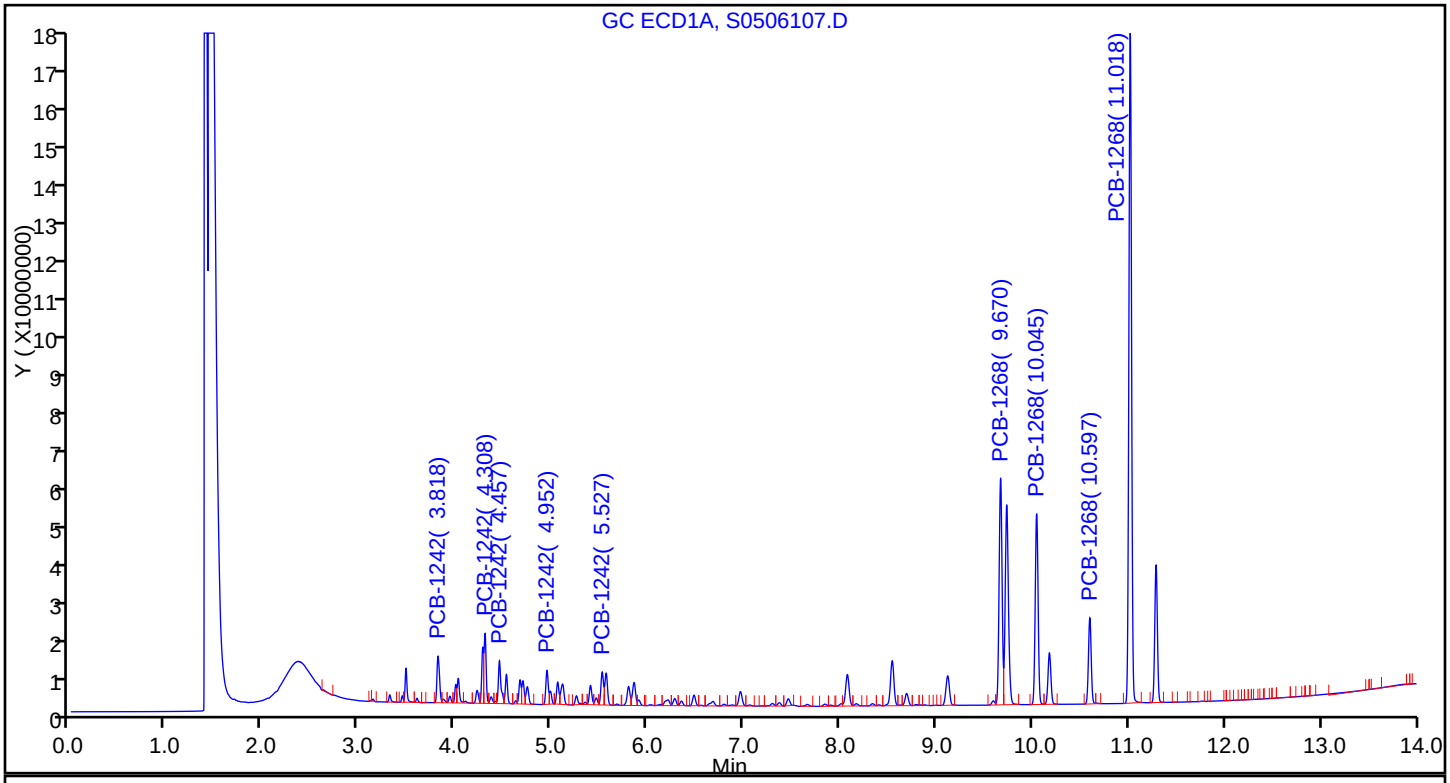
Reagents:

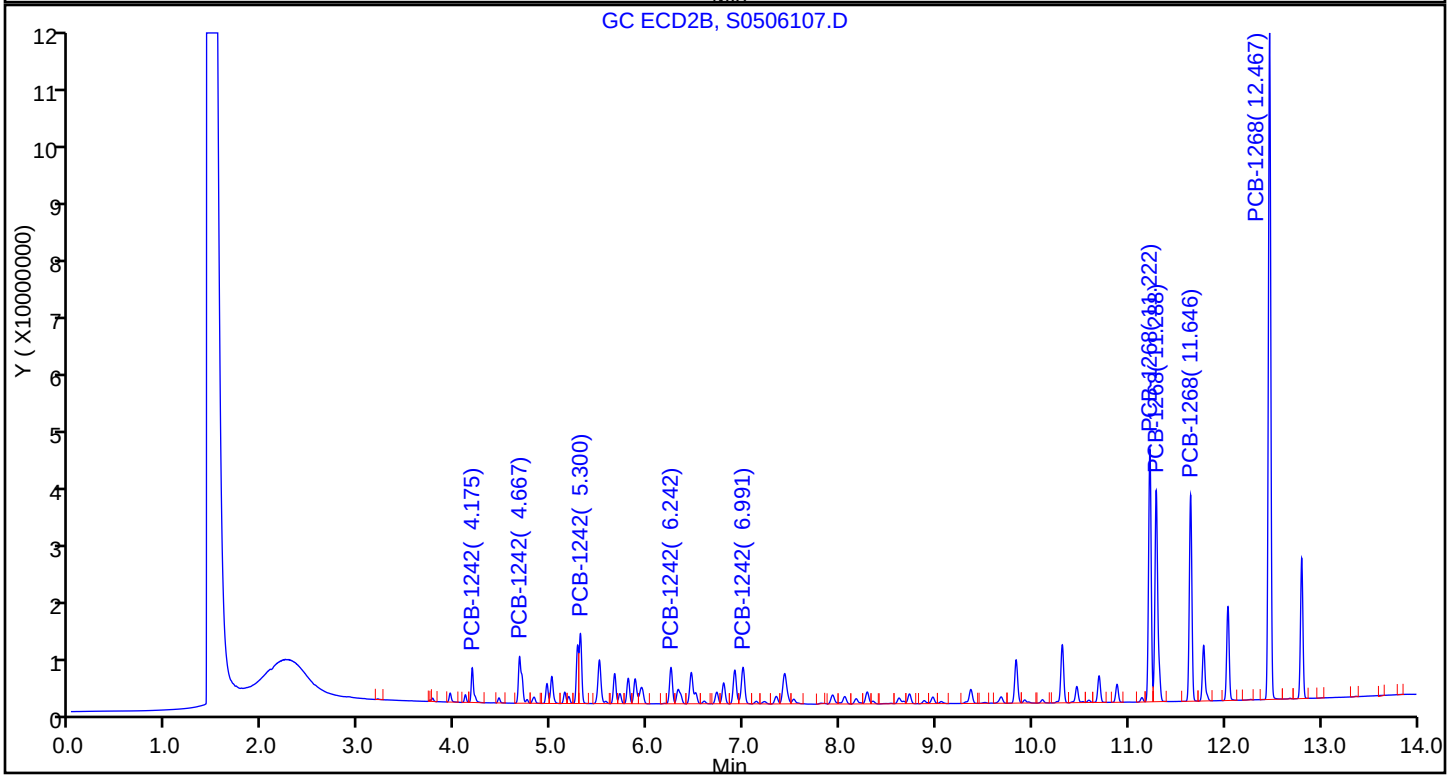
GCAR4268CALL4_00001 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506107.D				
Injection Date:	06-May-2015 14:03:55	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:03 Calibration End Date: 05/06/2015 14:03 Calibration ID: 23744

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/7	S0506107.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	4.175										4.125 - 4.225	4.175
PCB-1242 Peak 2	4.667										4.617 - 4.717	4.667
PCB-1242 Peak 3	5.300										5.250 - 5.350	5.300
PCB-1242 Peak 4	6.242										6.192 - 6.292	6.242
PCB-1242 Peak 5	6.991										6.941 - 7.041	6.991
PCB-1268 Peak 1	11.222										11.172 - 11.272	11.222
PCB-1268 Peak 2	11.288										11.238 - 11.338	11.288
PCB-1268 Peak 3	11.646										11.596 - 11.696	11.646
PCB-1268 Peak 4	12.467										12.417 - 12.517	12.467

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:03 Calibration End Date: 05/06/2015 14:03 Calibration ID: 23744

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/7	S0506107.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	11179540				Ave		11179540.0						20.0			
PCB-1242 Peak 2	15052640				Ave		15052640.0						20.0			
PCB-1242 Peak 3	22545642				Ave		22545642.0						20.0			
PCB-1242 Peak 4	11709734				Ave		11709734.0						20.0			
PCB-1242 Peak 5	11735842				Ave		11735842.0						20.0			
PCB-1268 Peak 1	81307552				Ave		81307552.0						20.0			
PCB-1268 Peak 2	68090580				Ave		68090580.0						20.0			
PCB-1268 Peak 3	66418768				Ave		66418768.0						20.0			
PCB-1268 Peak 4	214671178				Ave		214671178						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:03 Calibration End Date: 05/06/2015 14:03 Calibration ID: 23744

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/7	S0506107.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	5589770					0.500				
PCB-1242 Peak 2	Ave	7526320					0.500				
PCB-1242 Peak 3	Ave	11272821					0.500				
PCB-1242 Peak 4	Ave	5854867					0.500				
PCB-1242 Peak 5	Ave	5867921					0.500				
PCB-1268 Peak 1	Ave	40653776					0.500				
PCB-1268 Peak 2	Ave	34045290					0.500				
PCB-1268 Peak 3	Ave	33209384					0.500				
PCB-1268 Peak 4	Ave	107335589					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506107.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-May-2015 14:03:55 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-007
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub24

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:16 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:22:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
5 PCB-1242							
1	3.818	3.818	0.000	11887650H	0.5000	0.5000	
1	4.308	4.308	0.000	17909404H	0.5000	0.5000	
1	4.457	4.457	0.000	10970606H	0.5000	0.5000	
1	4.952	4.952	0.000	8695997H	0.5000	0.5000	
1	5.527	5.527	0.000	8455090H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.175	4.175	0.000	5589770H	0.5000	0.5000	
2	4.667	4.667	0.000	7526320H	0.5000	0.5000	
2	5.300	5.300	0.000	11272821H	0.5000	0.5000	
2	6.242	6.242	0.000	5854867H	0.5000	0.5000	
2	6.991	6.991	0.000	5867921H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
10 PCB-1268							
1	9.670	9.670	0.000	57872926H	0.5000	0.5000	
1	10.045	10.045	0.000	48723364H	0.5000	0.5000	
1	10.597	10.597	0.000	22025560H	0.5000	0.5000	
1	11.018	11.018	0.000	171461529H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	11.222	11.222	0.000	40653776H	0.5000	0.5000	
2	11.288	11.288	0.000	34045290H	0.5000	0.5000	
2	11.646	11.646	0.000	33209384H	0.5000	0.5000	
2	12.467	12.467	0.000	107335589H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

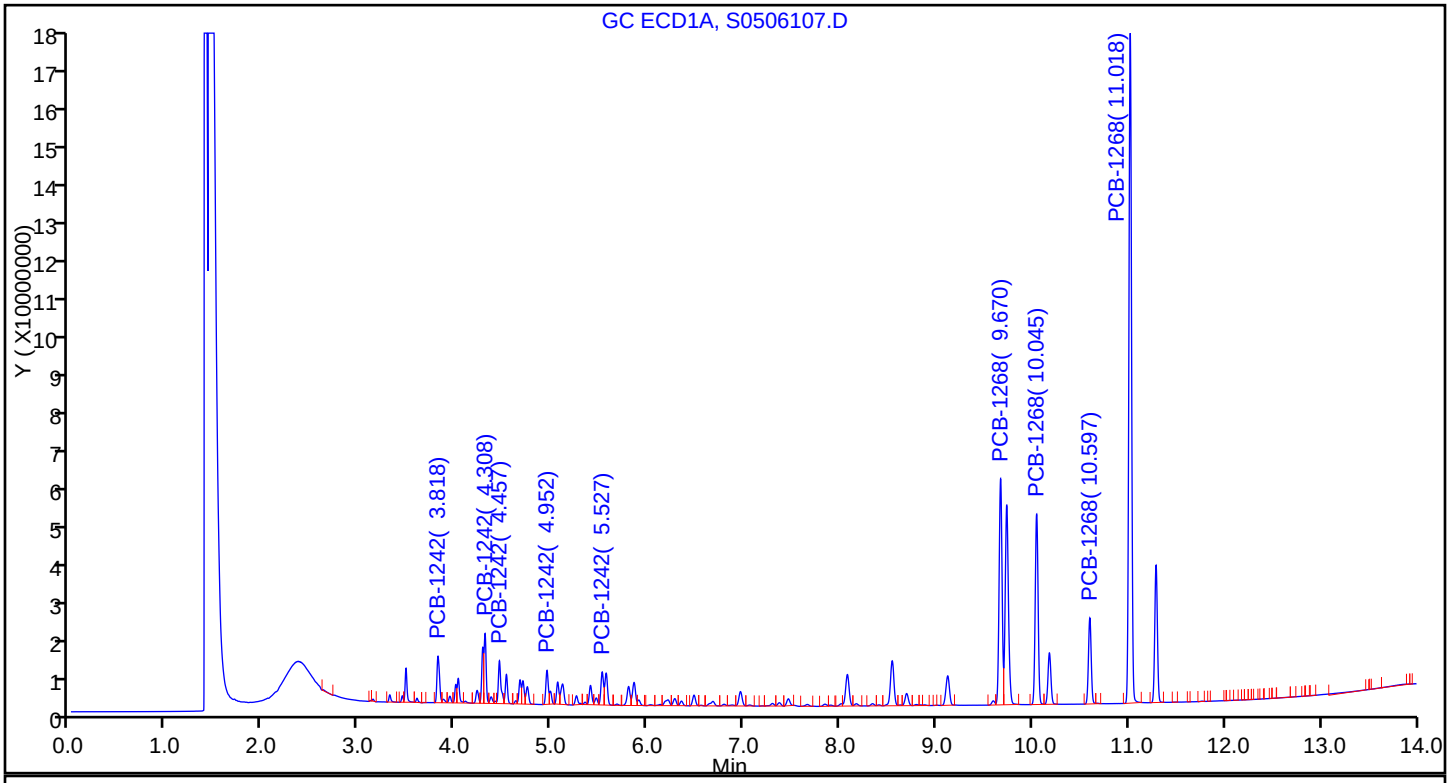
Reagents:

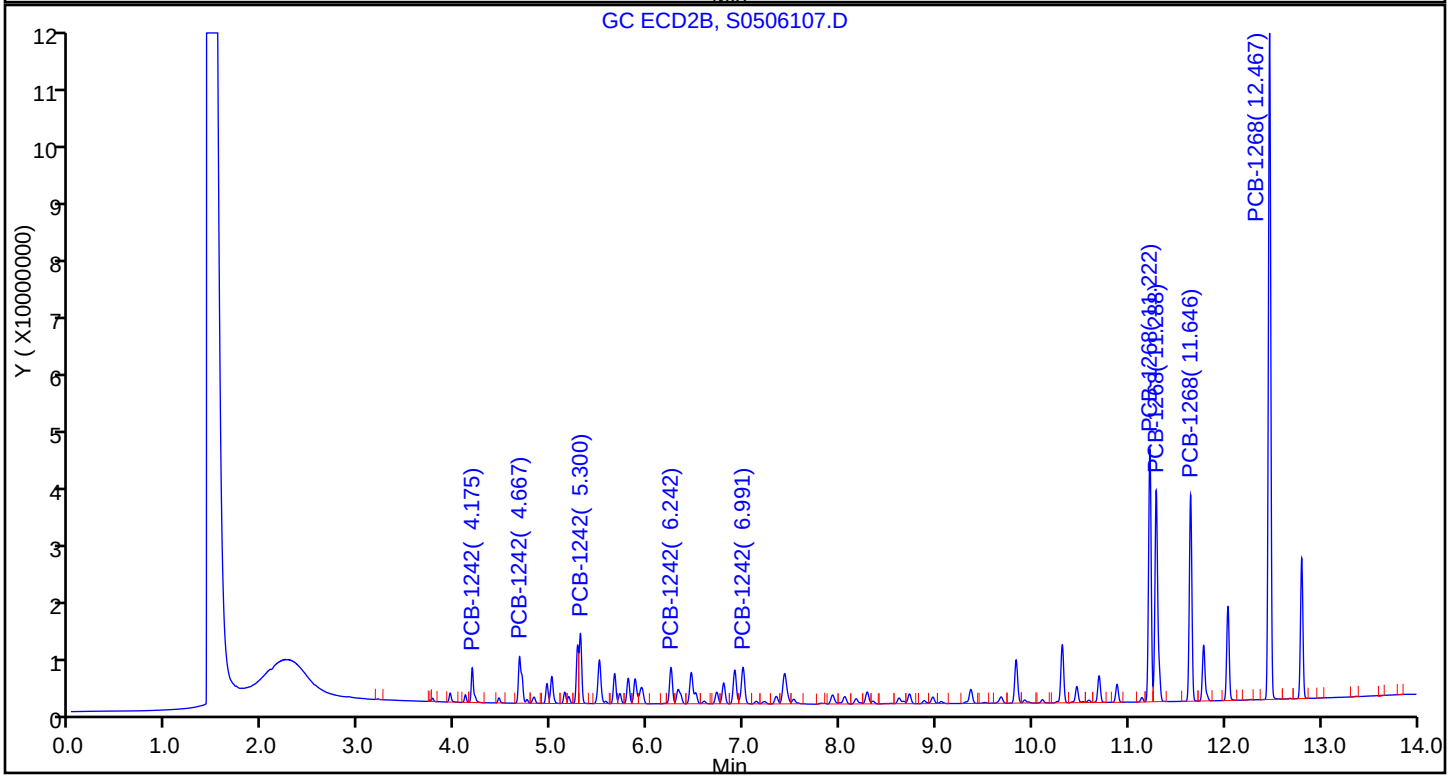
GCAR4268CALL4_00001 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:17 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506107.D				
Injection Date:	06-May-2015 14:03:55	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:22 Calibration End Date: 05/06/2015 14:22 Calibration ID: 23749

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/8	S0506108.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	3.818										3.768 - 3.868	3.818
PCB-1248 Peak 2	4.308										4.258 - 4.358	4.308
PCB-1248 Peak 3	4.953										4.903 - 5.003	4.953
PCB-1248 Peak 4	5.528										5.478 - 5.578	5.528
PCB-1248 Peak 5	5.568										5.518 - 5.618	5.568

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:22 Calibration End Date: 05/06/2015 14:22 Calibration ID: 23749

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/8	S0506108.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	13779832				Ave		13779832.0						20.0			
PCB-1248 Peak 2	20630810				Ave		20630810.0						20.0			
PCB-1248 Peak 3	27456448				Ave		27456448.0						20.0			
PCB-1248 Peak 4	28995722				Ave		28995722.0						20.0			
PCB-1248 Peak 5	24637184				Ave		24637184.0						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:22 Calibration End Date: 05/06/2015 14:22 Calibration ID: 23749

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/8	S0506108.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	6889916					0.500				
PCB-1248 Peak 2	Ave	10315405					0.500				
PCB-1248 Peak 3	Ave	13728224					0.500				
PCB-1248 Peak 4	Ave	14497861					0.500				
PCB-1248 Peak 5	Ave	12318592					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506108.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-May-2015 14:22:41 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-008
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub3

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:13 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:22:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1248							
1	3.818	3.818	0.000	6889916H	0.5000	0.5000	
1	4.308	4.308	0.000	10315405H	0.5000	0.5000	
1	4.953	4.953	0.000	13728224H	0.5000	0.5000	
1	5.528	5.528	0.000	14497861H	0.5000	0.5000	
1	5.568	5.568	0.000	12318592H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.668	4.668	0.000	4592822H	0.5000	0.5000	
2	5.798	5.798	0.000	7252738H	0.5000	0.5000	
2	6.242	6.242	0.000	9040721H	0.5000	0.5000	
2	6.991	6.991	0.000	9555061H	0.5000	0.5000	
2	7.425	7.425	0.000	7040791H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

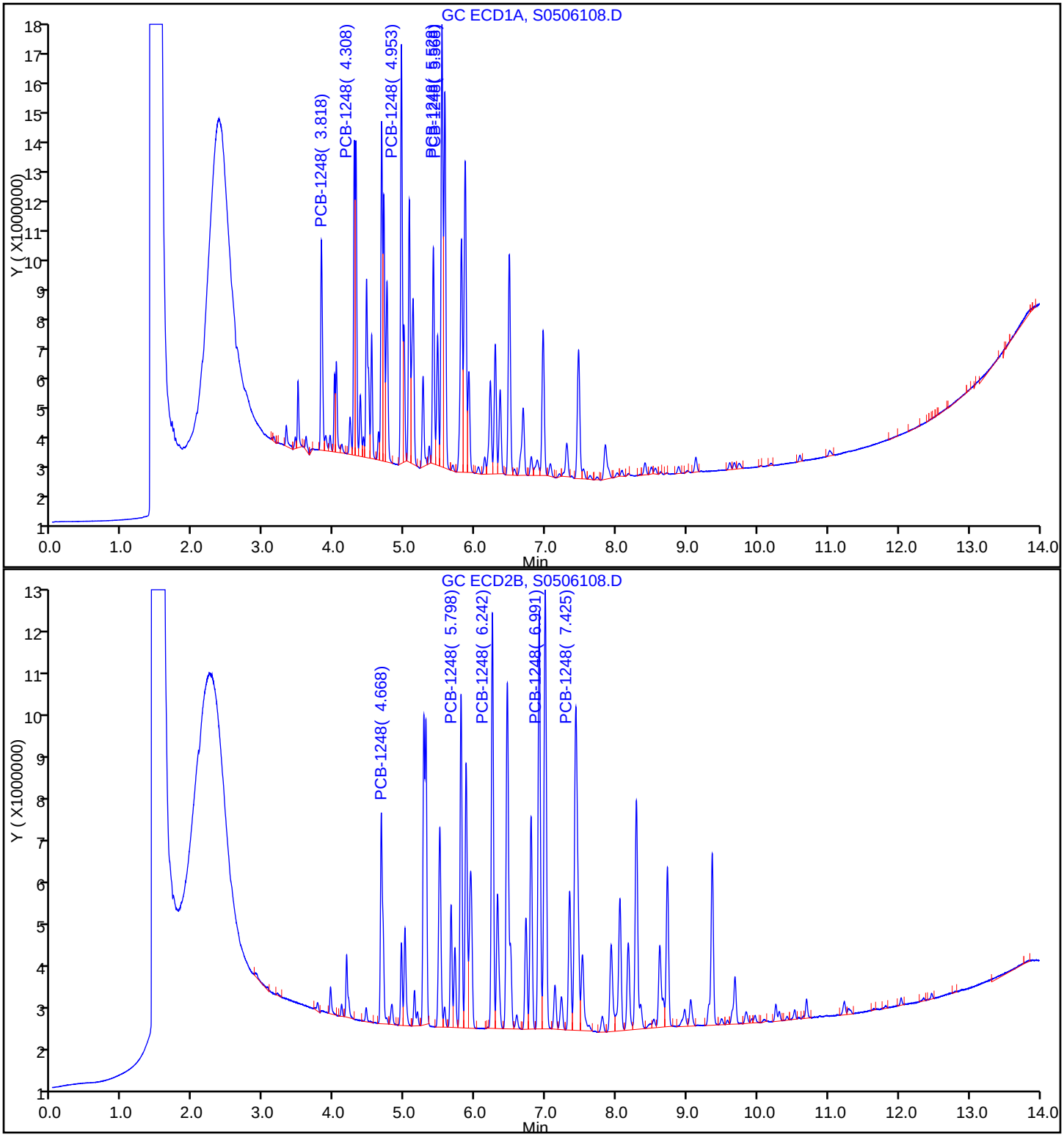
Reagents:

GCAR1248CALL4_00010 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:13 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506108.D				
Injection Date:	06-May-2015 14:22:41	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:22 Calibration End Date: 05/06/2015 14:22 Calibration ID: 23750

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/8	S0506108.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	4.668										4.618 - 4.718	4.668
PCB-1248 Peak 2	5.798										5.748 - 5.848	5.798
PCB-1248 Peak 3	6.242										6.192 - 6.292	6.242
PCB-1248 Peak 4	6.991										6.941 - 7.041	6.991
PCB-1248 Peak 5	7.425										7.375 - 7.475	7.425

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:22 Calibration End Date: 05/06/2015 14:22 Calibration ID: 23750

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/8	S0506108.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	9185644				Ave		9185644.00						20.0			
PCB-1248 Peak 2	14505476				Ave		14505476.0						20.0			
PCB-1248 Peak 3	18081442				Ave		18081442.0						20.0			
PCB-1248 Peak 4	19110122				Ave		19110122.0						20.0			
PCB-1248 Peak 5	14081582				Ave		14081582.0						20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:22 Calibration End Date: 05/06/2015 14:22 Calibration ID: 23750

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/8	S0506108.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	4592822					0.500				
PCB-1248 Peak 2	Ave	7252738					0.500				
PCB-1248 Peak 3	Ave	9040721					0.500				
PCB-1248 Peak 4	Ave	9555061					0.500				
PCB-1248 Peak 5	Ave	7040791					0.500				

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506108.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-May-2015 14:22:41 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-008
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub3

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:13 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:22:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1248							
1	3.818	3.818	0.000	6889916H	0.5000	0.5000	
1	4.308	4.308	0.000	10315405H	0.5000	0.5000	
1	4.953	4.953	0.000	13728224H	0.5000	0.5000	
1	5.528	5.528	0.000	14497861H	0.5000	0.5000	
1	5.568	5.568	0.000	12318592H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.668	4.668	0.000	4592822H	0.5000	0.5000	
2	5.798	5.798	0.000	7252738H	0.5000	0.5000	
2	6.242	6.242	0.000	9040721H	0.5000	0.5000	
2	6.991	6.991	0.000	9555061H	0.5000	0.5000	
2	7.425	7.425	0.000	7040791H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

GCAR1248CALL4_00010 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:14 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506108.D

Injection Date: 06-May-2015 14:22:41 Instrument ID: CHGC10

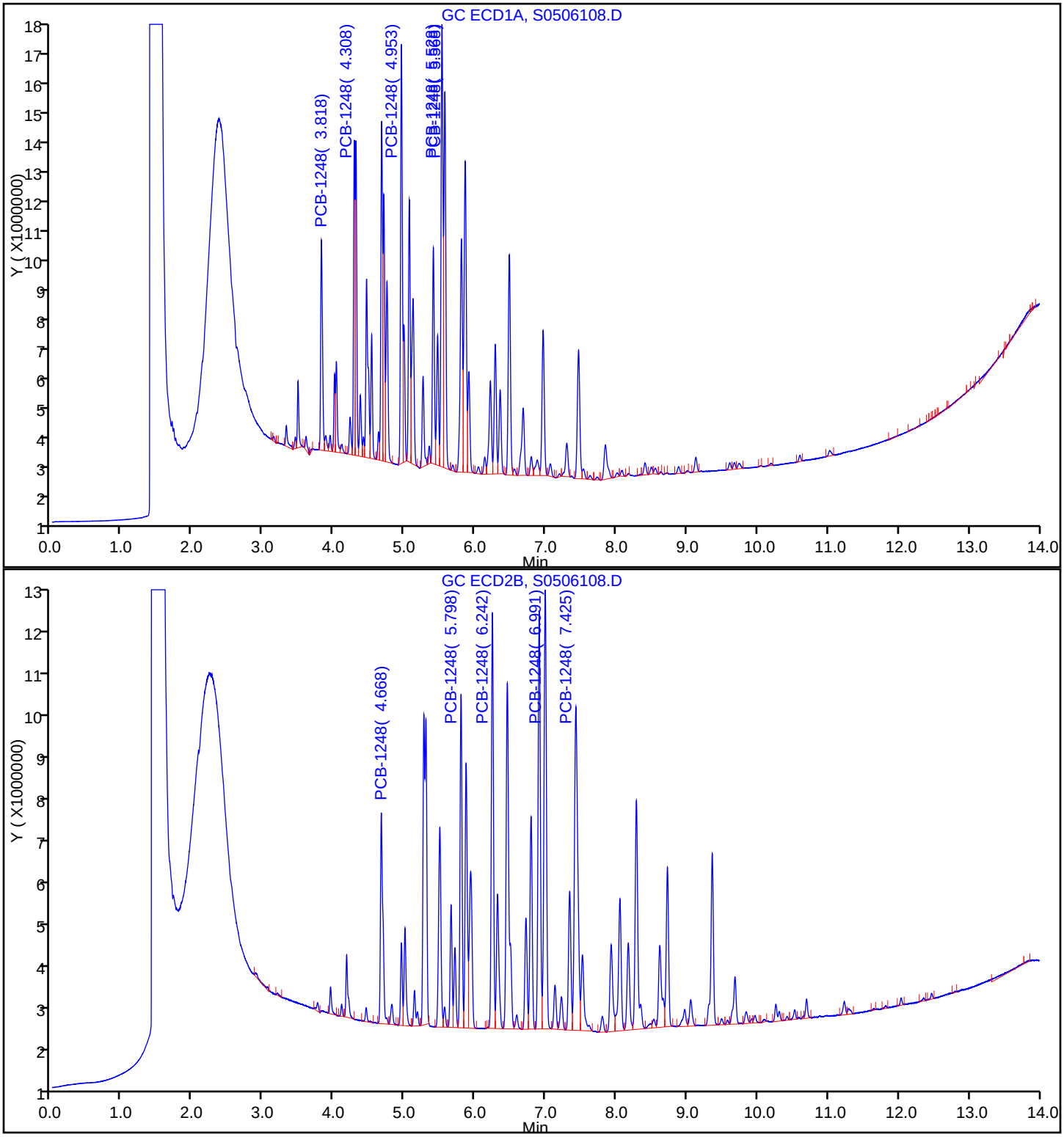
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:41 Calibration End Date: 05/06/2015 16:34 Calibration ID: 23731

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/9	S0506109.D
Level 2	IC 180-140736/10	S0506110.D
Level 3	IC 180-140736/11	S0506111.D
Level 4	ICRT 180-140736/12	S0506112.D
Level 5	IC 180-140736/13	S0506113.D
Level 6	IC 180-140736/14	S0506114.D
Level 7	IC 180-140736/15	S0506115.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	3.487	3.488	3.487	3.486	3.489	3.489	3.491				3.436 - 3.536	3.488
PCB-1016 Peak 2	3.819	3.820	3.820	3.820	3.821	3.822	3.823				3.770 - 3.870	3.821
PCB-1016 Peak 3	4.309	4.310	4.309	4.309	4.310	4.311	4.312				4.259 - 4.359	4.310
PCB-1016 Peak 4	4.460	4.460	4.459	4.459	4.460	4.461	4.462				4.409 - 4.509	4.460
PCB-1016 Peak 5	4.954	4.955	4.954	4.954	4.955	4.956	4.957				4.904 - 5.004	4.955
PCB-1260 Peak 1	6.794	6.795	6.795	6.795	6.795	6.797	6.797				6.745 - 6.845	6.795
PCB-1260 Peak 2	7.294	7.298	7.296	7.296	7.297	7.297	7.299				7.246 - 7.346	7.297
PCB-1260 Peak 3	8.551	8.555	8.552	8.554	8.555	8.555	8.556				8.504 - 8.604	8.554
PCB-1260 Peak 4	9.127	9.129	9.126	9.126	9.129	9.127	9.127				9.076 - 9.176	9.127
PCB-1260 Peak 5	9.607	9.608	9.606	9.606	9.607	9.607	9.608				9.556 - 9.656	9.607
Tetrachloro-m-xylene (Surr)	3.176	3.177	3.176	3.177	3.179	3.179	3.182				3.127 - 3.227	3.178
DCB Decachlorobiphenyl (Surr)	11.288	11.289	11.288	11.289	11.290	11.289	11.290				11.219 - 11.359	11.289

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:41 Calibration End Date: 05/06/2015 16:34 Calibration ID: 23731

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/9	S0506109.D
Level 2	IC 180-140736/10	S0506110.D
Level 3	IC 180-140736/11	S0506111.D
Level 4	ICRT 180-140736/12	S0506112.D
Level 5	IC 180-140736/13	S0506113.D
Level 6	IC 180-140736/14	S0506114.D
Level 7	IC 180-140736/15	S0506115.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	18944600 21374438	19279120 18401700	20339475 17747381	20144358	Ave		19461581.6				6.4		20.0			
PCB-1016 Peak 2	30360000 30099814	29312560 25500774	29954220 24217530	28236992	Ave		28240270.0				8.6		20.0			
PCB-1016 Peak 3	39403500 46172212	39780300 39419025	43411380 38019824	42266436	Ave		41210382.4				7.0		20.0			
PCB-1016 Peak 4	23628800 27461014	24191640 23624646	26207360 22662800	25275646	Ave		24721700.9				6.8		20.0			
PCB-1016 Peak 5	19979600 22351646	19294980 19257705	21050160 18363772	20314432	Ave		20087470.6				6.6		20.0			
PCB-1260 Peak 1	35032800 36835681	33622900 32263487	34541760 30642219	34261760	Ave		33885801.0				5.9		20.0			
PCB-1260 Peak 2	48841000 53574888	49530200 46650041	50638530 44288890	49729570	Ave		49036159.9				6.0		20.0			
PCB-1260 Peak 3	30371900 36104065	31303000 31559746	33381090 30524529	32567862	Ave		32258884.6				6.2		20.0			
PCB-1260 Peak 4	76393900 89689000	75525900 78054269	81837205 74066450	81903792	Ave		79638645.0				6.7		20.0			
PCB-1260 Peak 5	38639600 48048327	40547700 42377146	44115965 41062546	44154248	Ave		42706504.5				7.2		20.0			
Tetrachloro-m-xylene (Surr)	766464000 1207670220	957542800 1141688500	1111470400 997931275	1090904880	Ave		1039096011				14.1		20.0			
DCB Decachlorobiphenyl (Surr)	899868000 1016299240	893354800 884261210	950970500 880949205	938618240	Ave		923474456				5.3		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:41 Calibration End Date: 05/06/2015 16:34 Calibration ID: 23731

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/9	S0506109.D
Level 2	IC 180-140736/10	S0506110.D
Level 3	IC 180-140736/11	S0506111.D
Level 4	ICRT 180-140736/12	S0506112.D
Level 5	IC 180-140736/13	S0506113.D
Level 6	IC 180-140736/14	S0506114.D
Level 7	IC 180-140736/15	S0506115.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	189446 36803399	963956 70989522	4067895	10072179	21374438	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	303600 51001548	1465628 96870119	5990844	14118496	30099814	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	394035 78838049	1989015 152079296	8682276	21133218	46172212	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	236288 47249292	1209582 90651200	5241472	12637823	27461014	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	199796 38515409	964749 73455086	4210032	10157216	22351646	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	350328 64526974	1681145 122568875	6908352	17130880	36835681	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	488410 93300082	2476510 177155560	10127706	24864785	53574888	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	303719 63119492	1565150 122098117	6676218	16283931	36104065	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	763939 156108537	3776295 296265798	16367441	40951896	89689000	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	386396 84754292	2027385 164250182	8823193	22077124	48048327	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
Tetrachloro-m-xylene (Surr)	Ave	383232 114168850	2393857 199586255	11114704	27272622	60383511	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl (Surr)	Ave	449934 88426121	2233387 176189841	9509705	23465456	50814962	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506109.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-May-2015 14:41:28 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-009
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:11 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.176	3.177	-0.001	383232H	0.000500	0.000369	
2	3.649	3.650	-0.001	450263H	0.000500	0.000501	
						RPD = 30.31	
3 PCB-1016							
1	3.487	3.486	0.001	189446H	0.0100	0.009734	
1	3.819	3.820	-0.001	303600H	0.0100	0.0108	
1	4.309	4.309	0.000	394035H	0.0100	0.009562	
1	4.460	4.459	0.001	236288H	0.0100	0.009558	
1	4.954	4.954	0.000	199796H	0.0100	0.0099	
		Average of Peak Amounts =				0.0099	
2	4.176	4.176	0.000	137954H	0.0100	0.0107	
2	4.667	4.669	-0.002	193088H	0.0100	0.0110	
2	5.272	5.301	-0.029	231539H	0.0100	0.008993	
2	5.497	5.499	-0.002	181440H	0.0100	0.0112	
2	6.245	6.244	0.001	141649H	0.0100	0.0105	
		Average of Peak Amounts =				0.0105	
						RPD = 5.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.794	6.795	-0.001	350328H	0.0100	0.0103	
1	7.294	7.296	-0.002	488410H	0.0100	0.0100	
1	8.551	8.554	-0.003	303719H	0.0100	0.009415	
1	9.127	9.126	0.001	763939H	0.0100	0.009593	
1	9.607	9.606	0.001	386396H	0.0100	0.009048	
		Average of Peak Amounts =				0.009671	
2	8.662	8.663	-0.001	252581H	0.0100	0.0106	
2	9.052	9.052	0.000	334474H	0.0100	0.0113	
2	10.307	10.310	-0.003	298370H	0.0100	0.0110	
2	10.694	10.696	-0.002	656908H	0.0100	0.0109	
2	11.231	11.235	-0.004	385819H	0.0100	0.0109	
		Average of Peak Amounts =				0.0109	
						RPD = 12.38	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.288	11.289	-0.001	449934H	0.000500	0.000487	
2	12.803	12.804	-0.001	311747H	0.000500	0.000519	
						RPD = 6.26	

Reagents:

GCAR1660CALL1_00015 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506109.D

Injection Date: 06-May-2015 14:41:28 Instrument ID: CHGC10

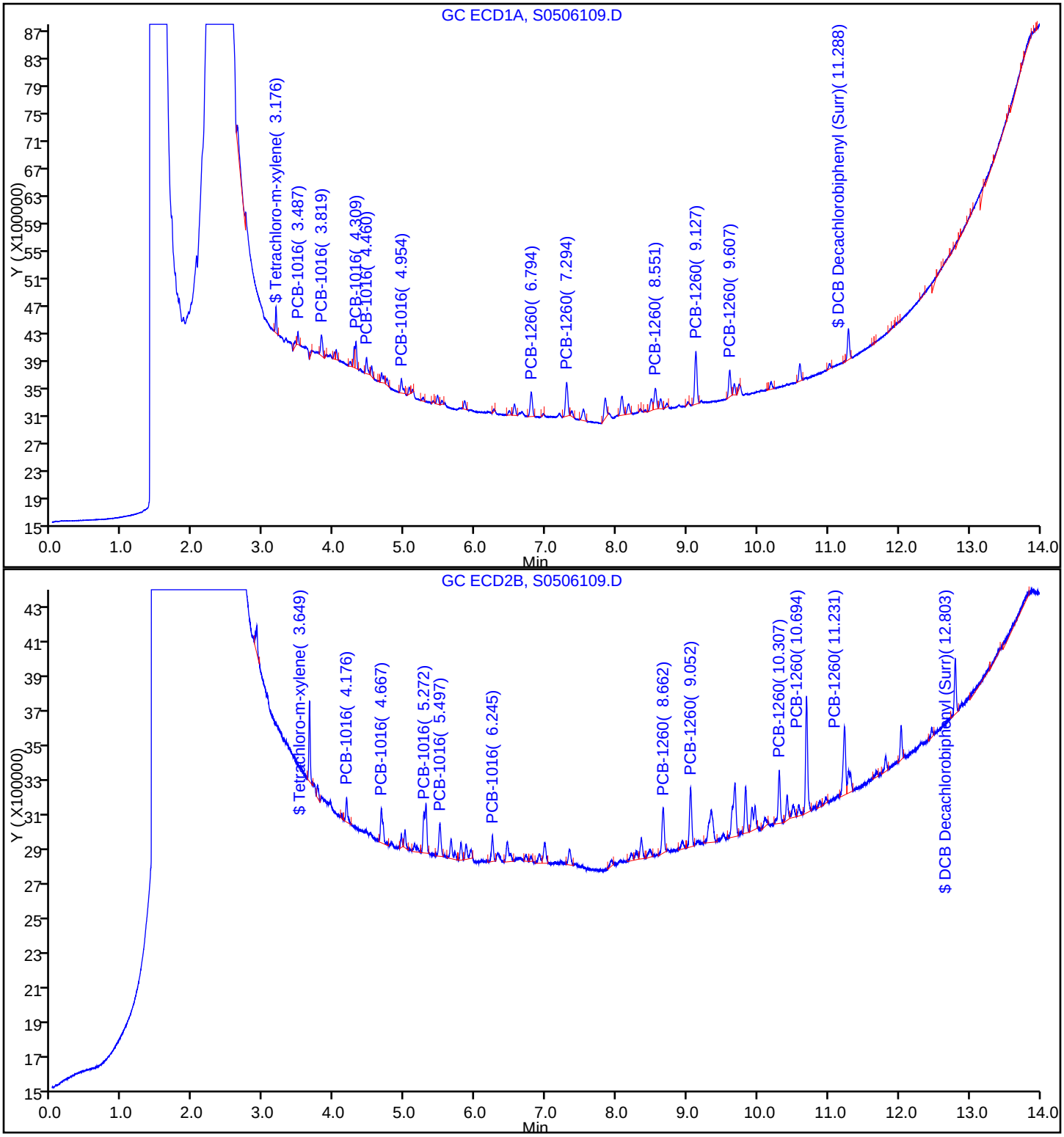
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 9 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506110.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-May-2015 15:00:16 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-010
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:08 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.177	3.177	0.000	2393857H	0.002500	0.002304	
2	3.651	3.650	0.001	2314433H	0.002500	0.002573	
						RPD = 11.04	
3 PCB-1016							
1	3.488	3.486	0.002	963956H	0.0500	0.0495	
1	3.820	3.820	0.000	1465628H	0.0500	0.0519	
1	4.310	4.309	0.001	1989015H	0.0500	0.0483	
1	4.460	4.459	0.001	1209582H	0.0500	0.0489	
1	4.955	4.954	0.001	964749H	0.0500	0.0480	
		Average of Peak Amounts =				0.0493	
2	4.177	4.176	0.001	678664H	0.0500	0.0527	
2	4.670	4.669	0.001	951942H	0.0500	0.0541	
2	5.302	5.301	0.001	1391151H	0.0500	0.0540	
2	5.500	5.499	0.001	873762H	0.0500	0.0540	
2	6.245	6.244	0.001	717134H	0.0500	0.0531	
		Average of Peak Amounts =				0.0536	
						RPD = 8.29	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.795	6.795	0.000	1681145H	0.0500	0.0496	
1	7.298	7.296	0.002	2476510H	0.0500	0.0505	
1	8.555	8.554	0.001	1565150H	0.0500	0.0485	
1	9.129	9.126	0.003	3776295H	0.0500	0.0474	
1	9.608	9.606	0.002	2027385H	0.0500	0.0475	
		Average of Peak Amounts =				0.0487	
2	8.665	8.663	0.002	1257332H	0.0500	0.0528	
2	9.054	9.052	0.002	1538813H	0.0500	0.0518	
2	10.309	10.310	-0.001	1407632H	0.0500	0.0520	
2	10.697	10.696	0.001	3045131H	0.0500	0.0506	
2	11.235	11.235	0.000	1812068H	0.0500	0.0514	
		Average of Peak Amounts =				0.0517	
						RPD = 5.98	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.289	11.289	0.000	2233387H	0.002500	0.002418	
2	12.804	12.804	0.000	1537696H	0.002500	0.002558	
						RPD = 5.63	

Reagents:

GCAR1660CALL2_00010 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506110.D

Injection Date: 06-May-2015 15:00:16 Instrument ID: CHGC10

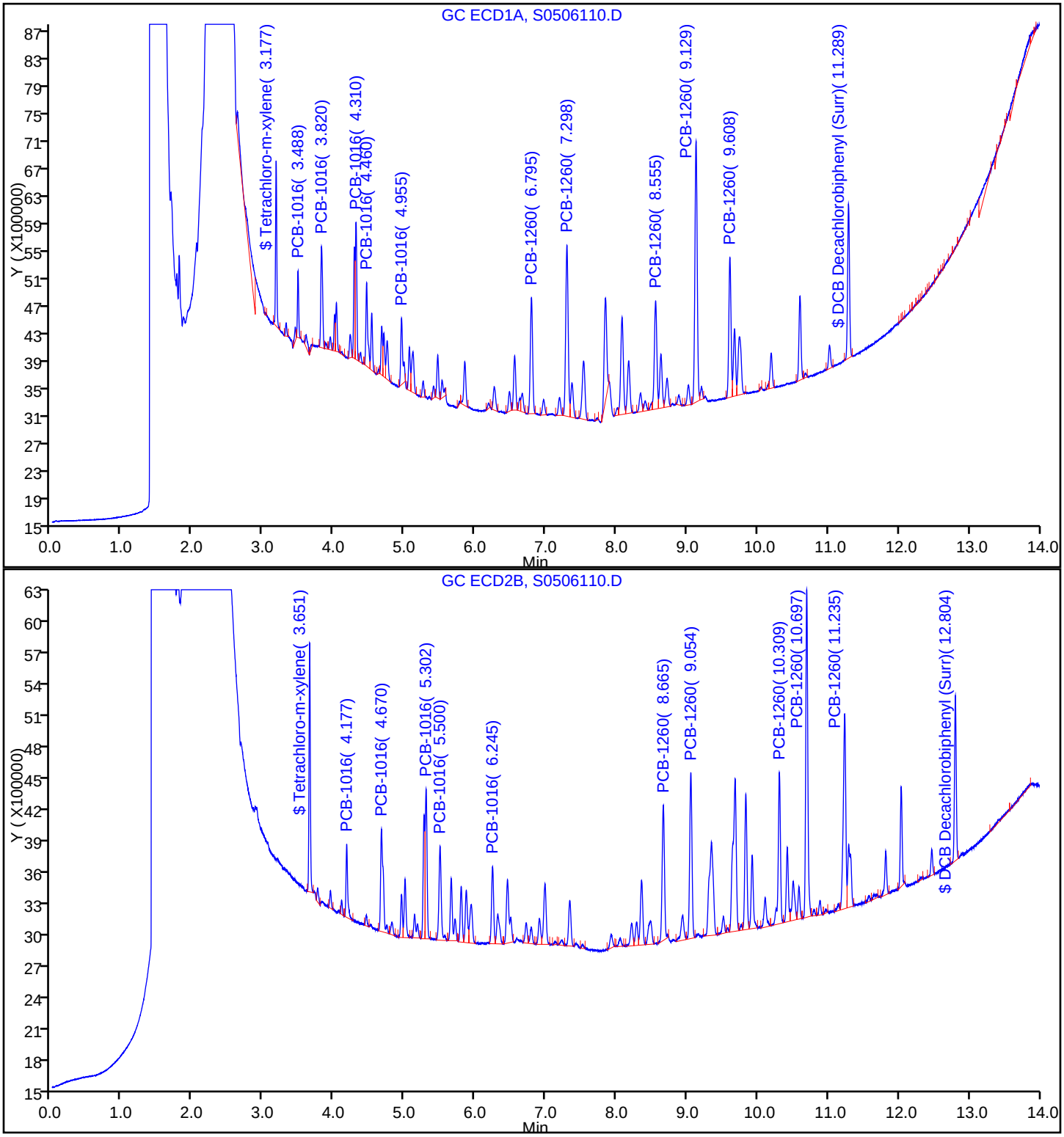
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506111.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 06-May-2015 15:19:05 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-011
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:06 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:23:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.176	3.177	-0.001	11114704H	0.0100	0.0107	
2	3.651	3.650	0.001	9681998H	0.0100	0.0108	
						RPD = 0.62	
3 PCB-1016							
1	3.487	3.486	0.001	4067895H	0.2000	0.2090	
1	3.820	3.820	0.000	5990844H	0.2000	0.2121	
1	4.309	4.309	0.000	8682276H	0.2000	0.2107	
1	4.459	4.459	0.000	5241472H	0.2000	0.2120	
1	4.954	4.954	0.000	4210032H	0.2000	0.2096	
		Average of Peak Amounts =				0.2107	
2	4.176	4.176	0.000	2786650H	0.2000	0.2164	
2	4.668	4.669	-0.001	3771110H	0.2000	0.2144	
2	5.301	5.301	0.000	5671063H	0.2000	0.2203	
2	5.498	5.499	-0.001	3442826H	0.2000	0.2128	
2	6.243	6.244	-0.001	2886517H	0.2000	0.2139	
		Average of Peak Amounts =				0.2155	
						RPD = 2.27	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.795	6.795	0.000	6908352H	0.2000	0.2039	
1	7.296	7.296	0.000	10127706H	0.2000	0.2065	
1	8.552	8.554	-0.002	6676218H	0.2000	0.2070	
1	9.126	9.126	0.000	16367441H	0.2000	0.2055	
1	9.606	9.606	0.000	8823193H	0.2000	0.2066	
		Average of Peak Amounts =				0.2059	
2	8.662	8.663	-0.001	5103944H	0.2000	0.2143	
2	9.053	9.052	0.001	6255515H	0.2000	0.2107	
2	10.308	10.310	-0.002	5657395H	0.2000	0.2088	
2	10.695	10.696	-0.001	12474582H	0.2000	0.2071	
2	11.234	11.235	-0.001	7319510H	0.2000	0.2076	
		Average of Peak Amounts =				0.2097	
						RPD = 1.84	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.288	11.289	-0.001	9509705H	0.0100	0.0103	
2	12.802	12.804	-0.002	6361842H	0.0100	0.0106	
						RPD = 2.75	

Reagents:

GCAR1660CALL3_00009 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506111.D

Injection Date: 06-May-2015 15:19:05 Instrument ID: CHGC10

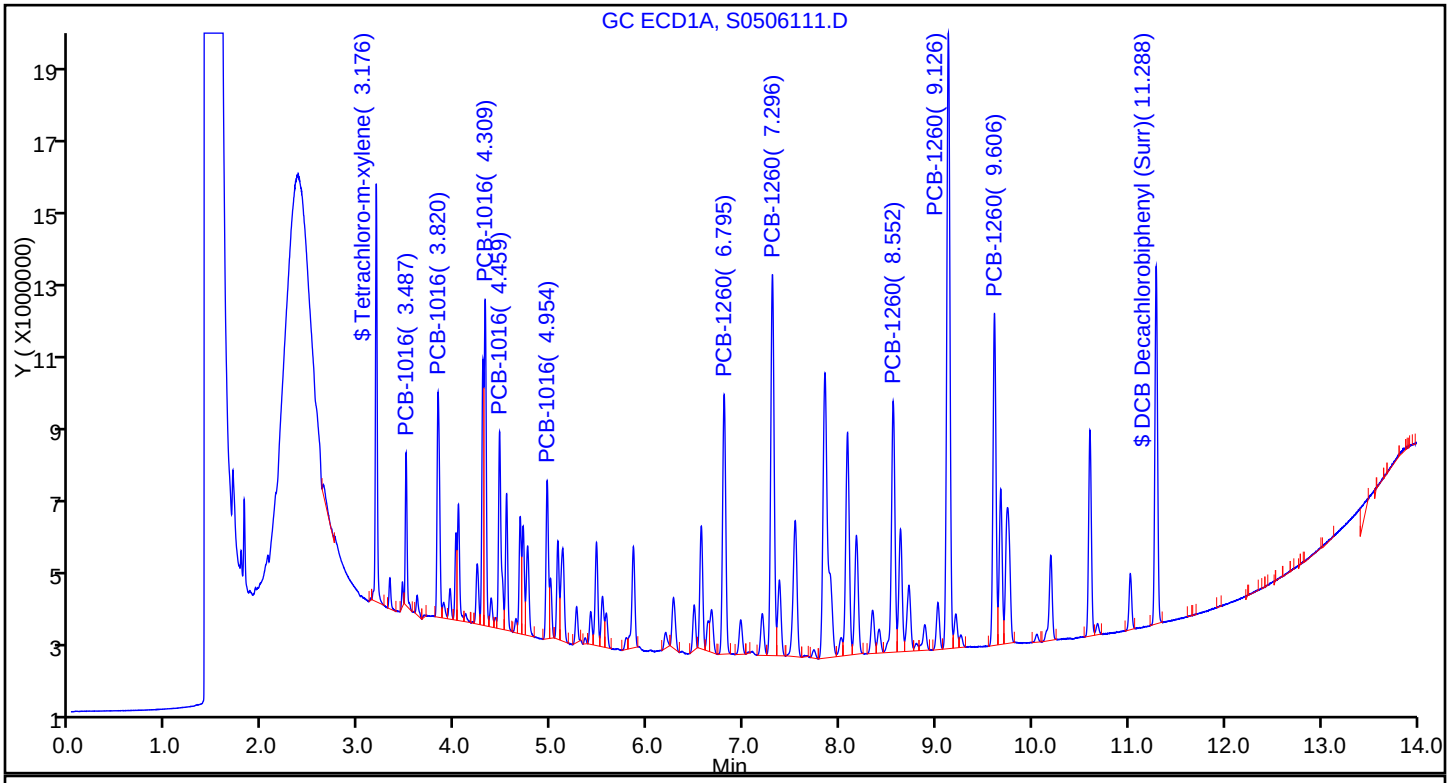
Lims ID: IC

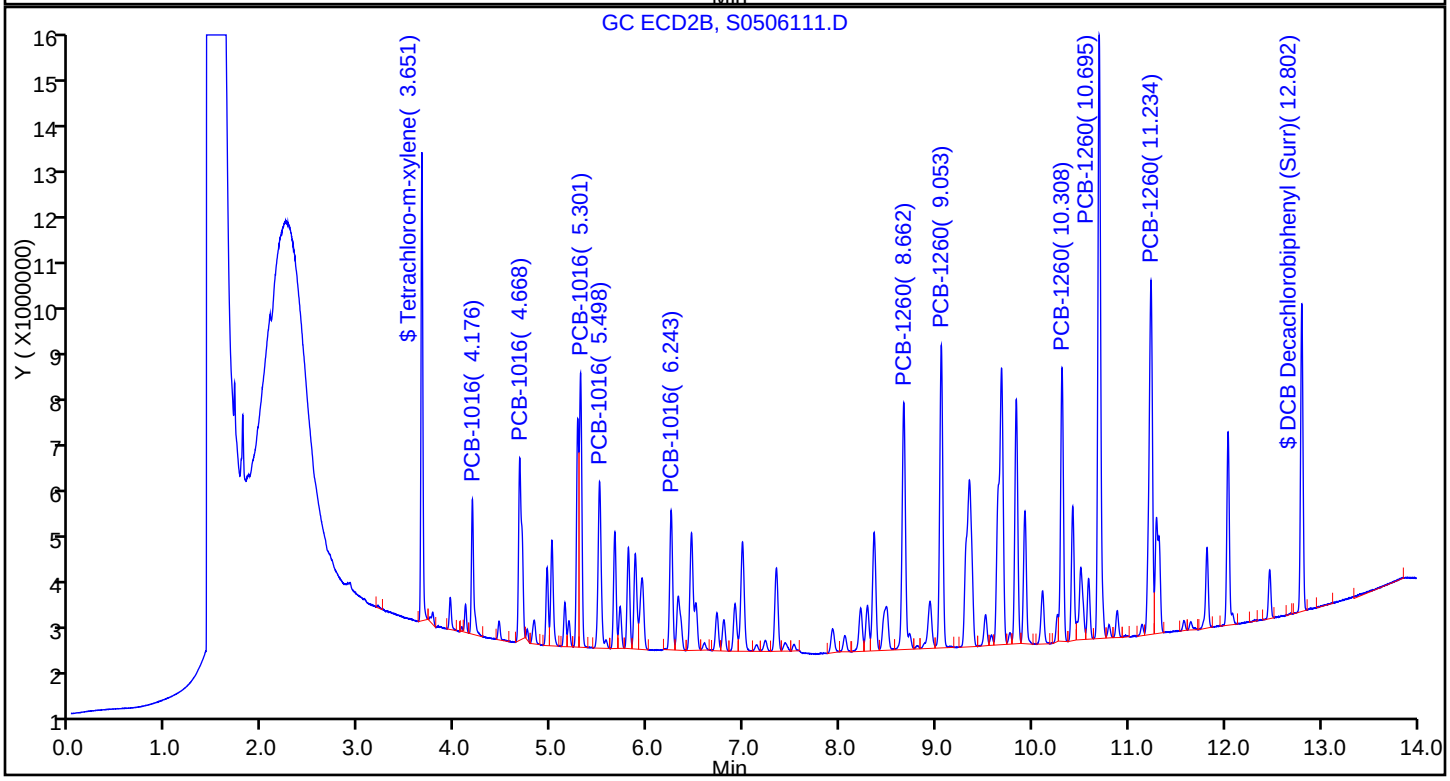
Client ID:

Operator ID: 402331 ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506112.D
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 4
Inject. Date: 06-May-2015 15:37:53 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-012
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:03 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.177	3.177	0.000	27272622H	0.0250	0.0262	
2	3.650	3.650	0.000	22766935H	0.0250	0.0253	
						RPD = 3.63	
3 PCB-1016							
1	3.486	3.486	0.000	10072179H	0.5000	0.5175	
1	3.820	3.820	0.000	14118496H	0.5000	0.4999	
1	4.309	4.309	0.000	21133218H	0.5000	0.5128	
1	4.459	4.459	0.000	12637823H	0.5000	0.5112	
1	4.954	4.954	0.000	10157216H	0.5000	0.5056	
		Average of Peak Amounts =				0.5094	
2	4.176	4.176	0.000	6476895H	0.5000	0.5029	
2	4.669	4.669	0.000	8822262H	0.5000	0.5016	
2	5.301	5.301	0.000	13271809H	0.5000	0.5155	
2	5.499	5.499	0.000	8024236H	0.5000	0.4959	
2	6.244	6.244	0.000	6760729H	0.5000	0.5010	
		Average of Peak Amounts =				0.5034	
						RPD = 1.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.795	6.795	0.000	17130880H	0.5000	0.5055	
1	7.296	7.296	0.000	24864785H	0.5000	0.5071	
1	8.554	8.554	0.000	16283931H	0.5000	0.5048	
1	9.126	9.126	0.000	40951896H	0.5000	0.5142	
1	9.606	9.606	0.000	22077124H	0.5000	0.5169	
		Average of Peak Amounts =				0.5097	
2	8.663	8.663	0.000	12022382H	0.5000	0.5048	
2	9.052	9.052	0.000	14802159H	0.5000	0.4985	
2	10.310	10.310	0.000	13629160H	0.5000	0.5031	
2	10.696	10.696	0.000	29952637H	0.5000	0.4974	
2	11.235	11.235	0.000	17623864H	0.5000	0.4999	
		Average of Peak Amounts =				0.5007	
						RPD = 1.78	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.289	11.289	0.000	23465456H	0.0250	0.0254	
2	12.804	12.804	0.000	15178684H	0.0250	0.0253	
						RPD = 0.61	

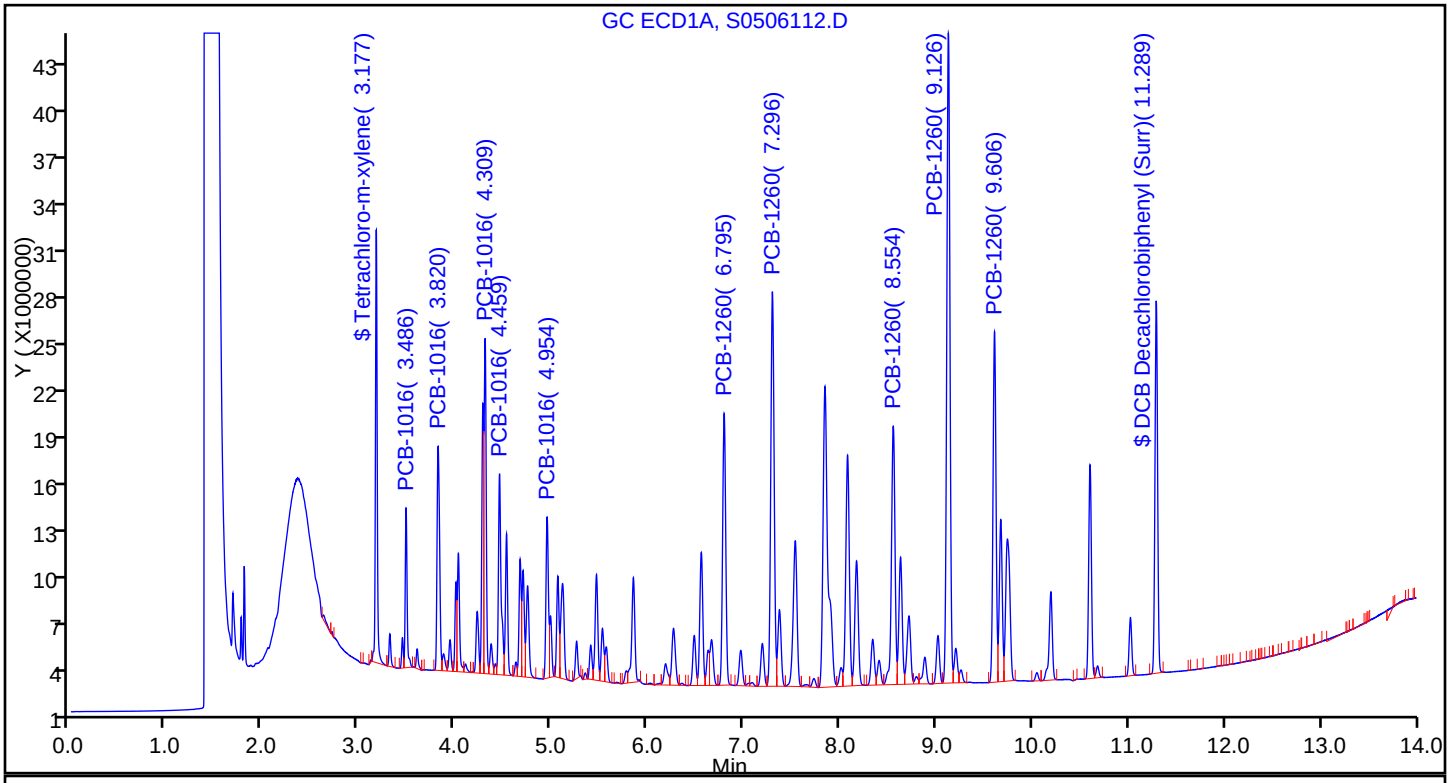
Reagents:

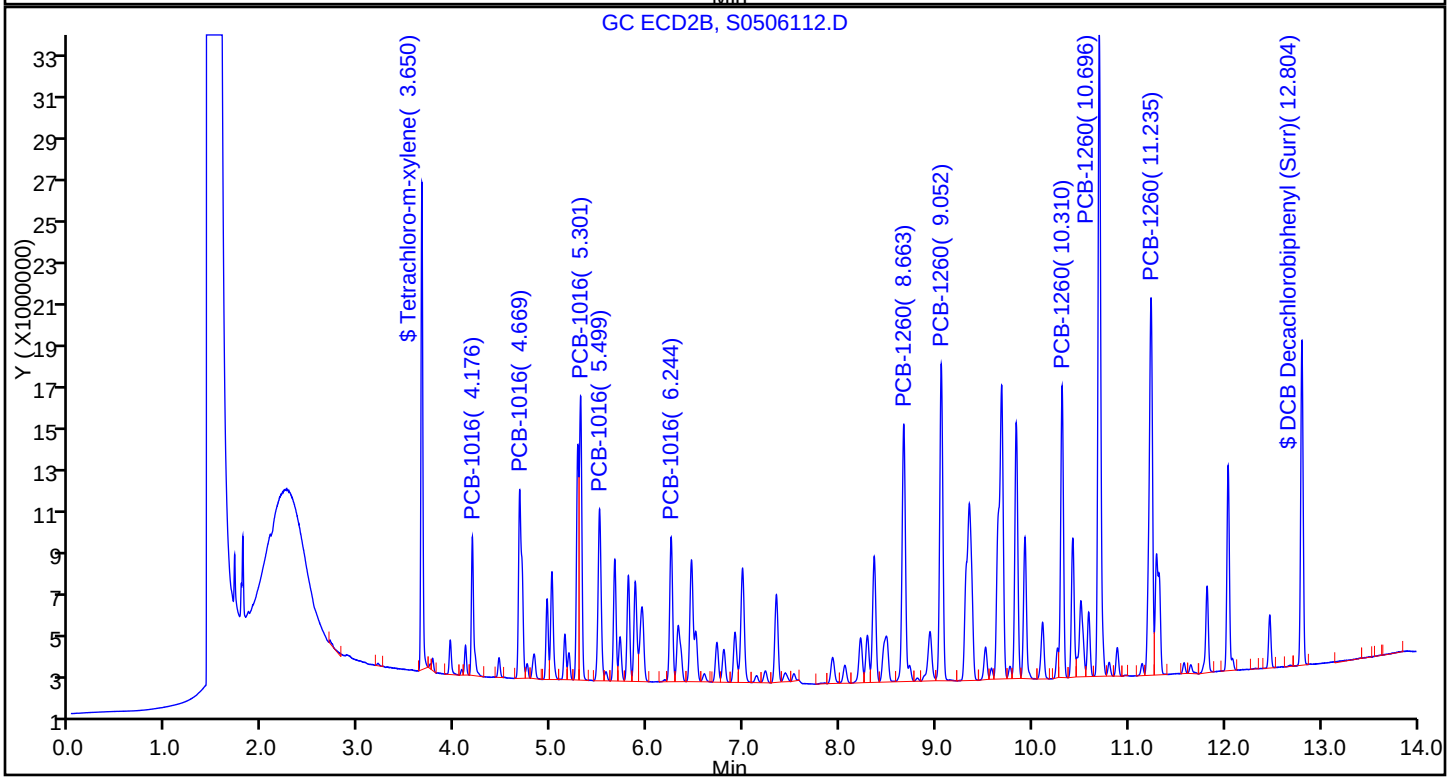
GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506112.D				
Injection Date:	06-May-2015 15:37:53	Instrument ID:	CHGC10		
Lims ID:	ICRT				
Client ID:					
Operator ID:	402331	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506113.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-May-2015 15:56:43 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-013
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:32:58 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.177	0.002	60383511H	0.0500	0.0581	
2	3.652	3.650	0.002	48671016H	0.0500	0.0541	
						RPD = 7.14	
3 PCB-1016							
1	3.489	3.486	0.003	21374438H	1.00	1.10	
1	3.821	3.820	0.001	30099814H	1.00	1.07	
1	4.310	4.309	0.001	46172212H	1.00	1.12	
1	4.460	4.459	0.001	27461014H	1.00	1.11	
1	4.955	4.954	0.001	22351646H	1.00	1.11	
		Average of Peak Amounts =				1.10	
2	4.177	4.176	0.001	13667514H	1.00	1.06	
2	4.670	4.669	0.001	18382817H	1.00	1.05	
2	5.302	5.301	0.001	28254928H	1.00	1.10	
2	5.500	5.499	0.001	16655679H	1.00	1.03	
2	6.243	6.244	-0.001	14391571H	1.00	1.07	
		Average of Peak Amounts =				1.06	
						RPD = 3.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.795	6.795	0.000	36835681H	1.00	1.09	
1	7.297	7.296	0.001	53574888H	1.00	1.09	
1	8.555	8.554	0.001	36104065H	1.00	1.12	
1	9.129	9.126	0.003	89689000H	1.00	1.13	
1	9.607	9.606	0.001	48048327H	1.00	1.13	
		Average of Peak Amounts =				1.11	
2	8.662	8.663	-0.001	25119616H	1.00	1.05	
2	9.052	9.052	0.000	31192509H	1.00	1.05	
2	10.309	10.310	-0.001	28678343H	1.00	1.06	
2	10.696	10.696	0.000	63907647H	1.00	1.06	
2	11.235	11.235	0.000	37073550H	1.00	1.05	
		Average of Peak Amounts =				1.06	
						RPD = 5.05	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.290	11.289	0.001	50814962H	0.0500	0.0550	
2	12.803	12.804	-0.001	31759546H	0.0500	0.0528	
						RPD = 4.05	

Reagents:

GCAR1660CALL5_00010 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:32:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506113.D

Injection Date: 06-May-2015 15:56:43 Instrument ID: CHGC10

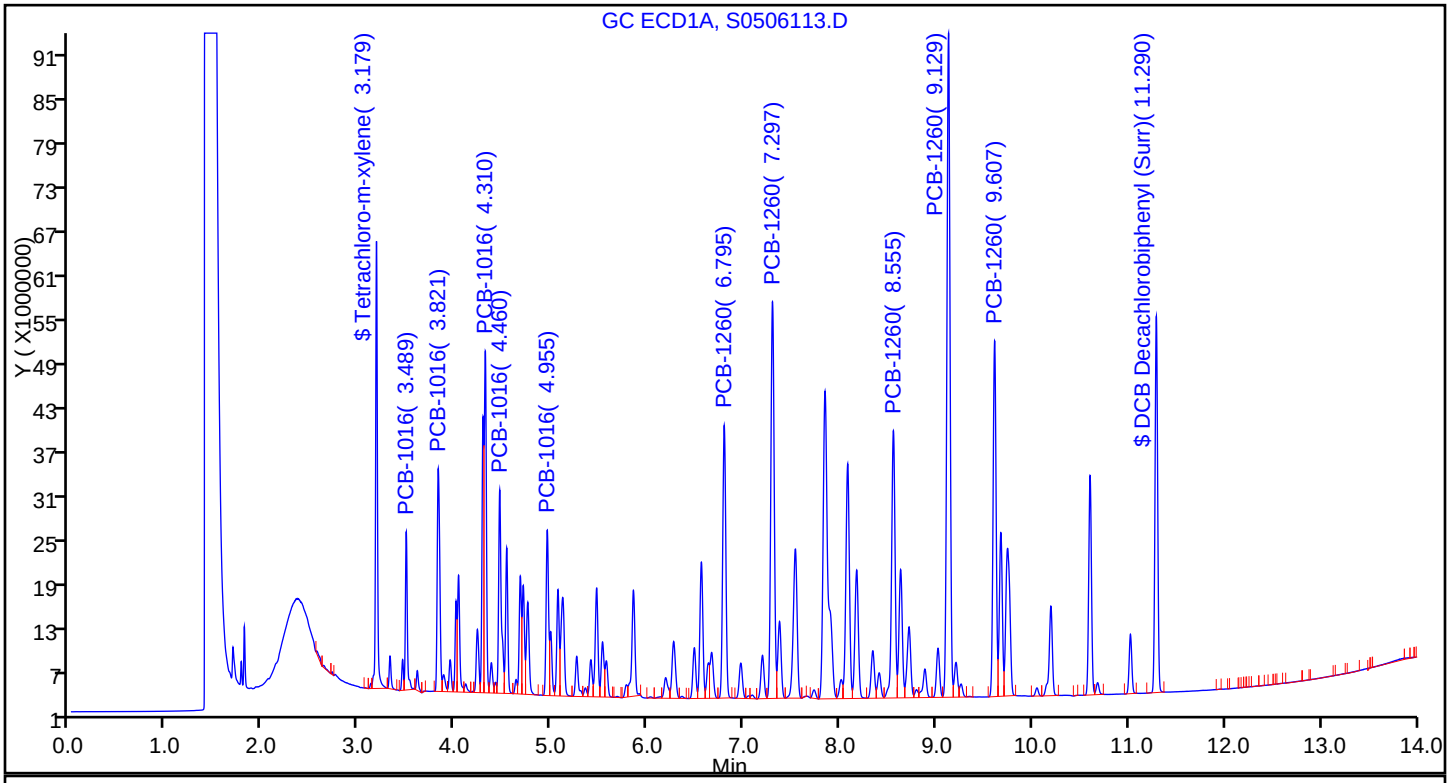
Lims ID: IC

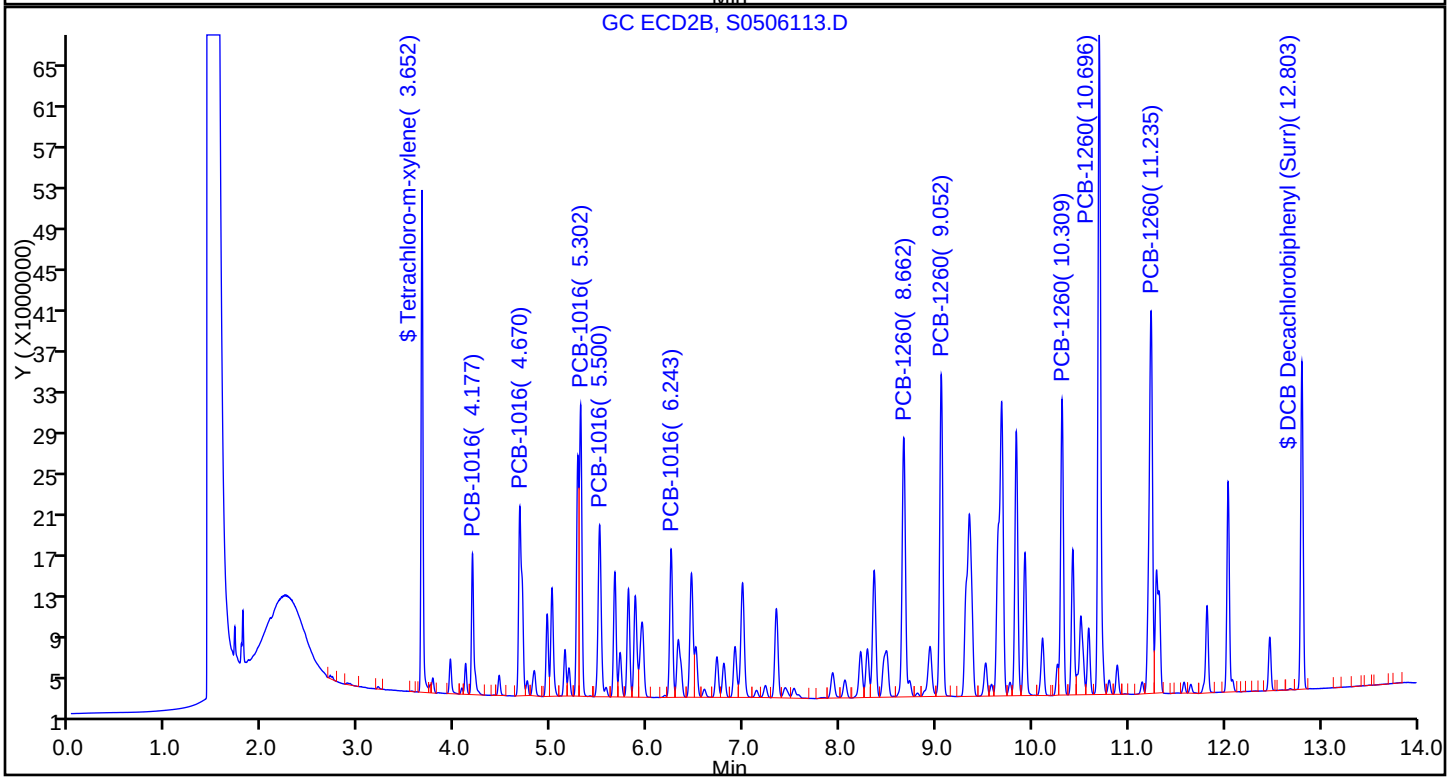
Client ID:

Operator ID: 402331 ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506114.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-May-2015 16:15:32 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-014
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:32:54 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.177	0.002	114168850H	0.1000	0.1099	
2	3.653	3.650	0.003	82591883H	0.1000	0.0918	
						RPD = 17.90	
3 PCB-1016							
1	3.489	3.486	0.003	36803399H	2.00	1.89	
1	3.822	3.820	0.002	51001548H	2.00	1.81	
1	4.311	4.309	0.002	78838049H	2.00	1.91	
1	4.461	4.459	0.002	47249292H	2.00	1.91	
1	4.956	4.954	0.002	38515409H	2.00	1.92	
		Average of Peak Amounts =				1.89	
2	4.178	4.176	0.002	23052197H	2.00	1.79	
2	4.671	4.669	0.002	30946573H	2.00	1.76	
2	5.303	5.301	0.002	47297107H	2.00	1.84	
2	5.501	5.499	0.002	28619707H	2.00	1.77	
2	6.245	6.244	0.001	24216479H	2.00	1.79	
		Average of Peak Amounts =				1.79	
						RPD = 5.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.797	6.795	0.002	64526974H	2.00	1.90	
1	7.297	7.296	0.001	93300082H	2.00	1.90	
1	8.555	8.554	0.001	63119492H	2.00	1.96	
1	9.127	9.126	0.001	156108537H	2.00	1.96	
1	9.607	9.606	0.001	84754292H	2.00	1.98	
		Average of Peak Amounts =				1.94	
2	8.664	8.663	0.001	42664928H	2.00	1.79	
2	9.053	9.052	0.001	53132873H	2.00	1.79	
2	10.310	10.310	0.000	48302536H	2.00	1.78	
2	10.697	10.696	0.001	110582383H	2.00	1.84	
2	11.235	11.235	0.000	63923561H	2.00	1.81	
		Average of Peak Amounts =				1.80	
						RPD = 7.42	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.289	11.289	0.000	88426121H	0.1000	0.0958	
2	12.804	12.804	0.000	55147016H	0.1000	0.0918	
						RPD = 4.26	

Reagents:

GCAR1660CALL6_00008 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:32:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506114.D

Injection Date: 06-May-2015 16:15:32 Instrument ID: CHGC10

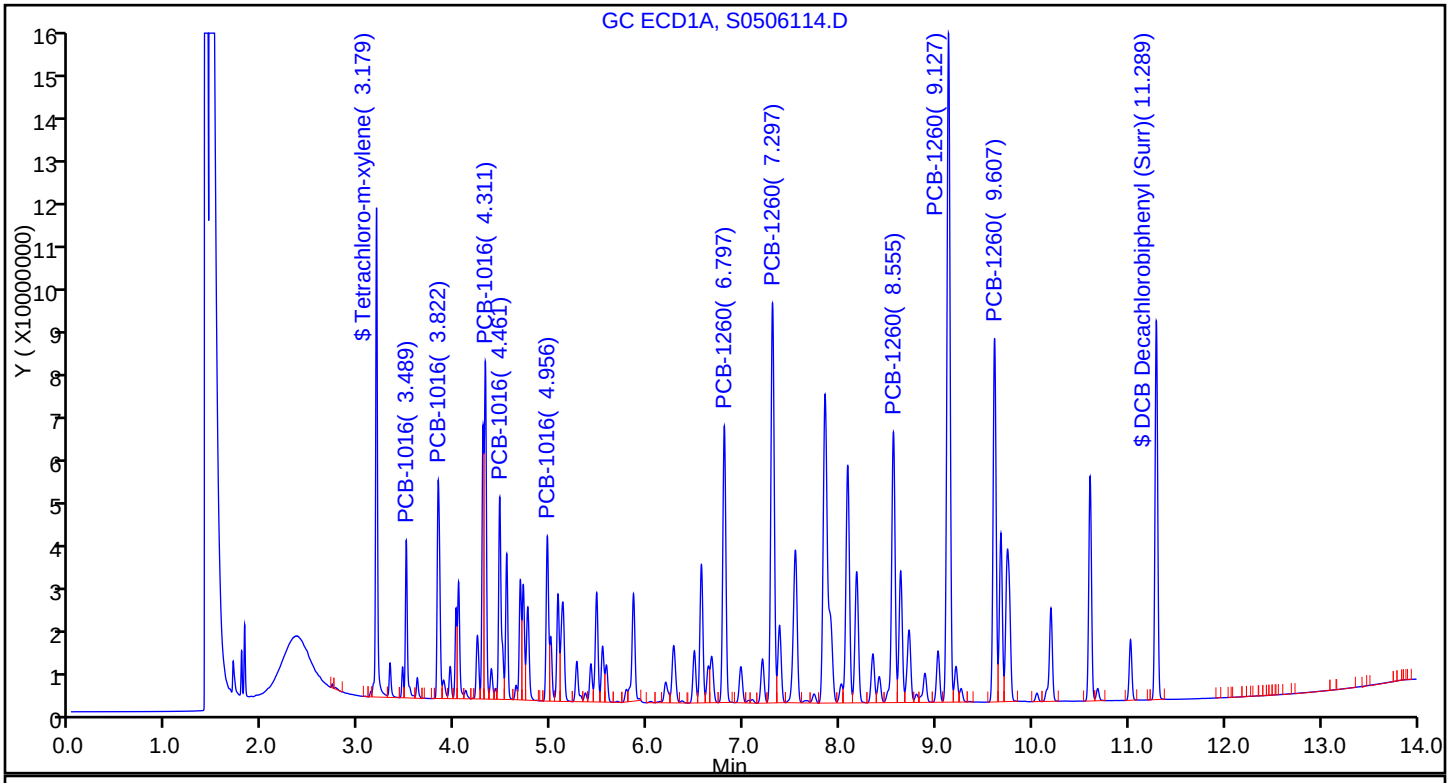
Lims ID: IC

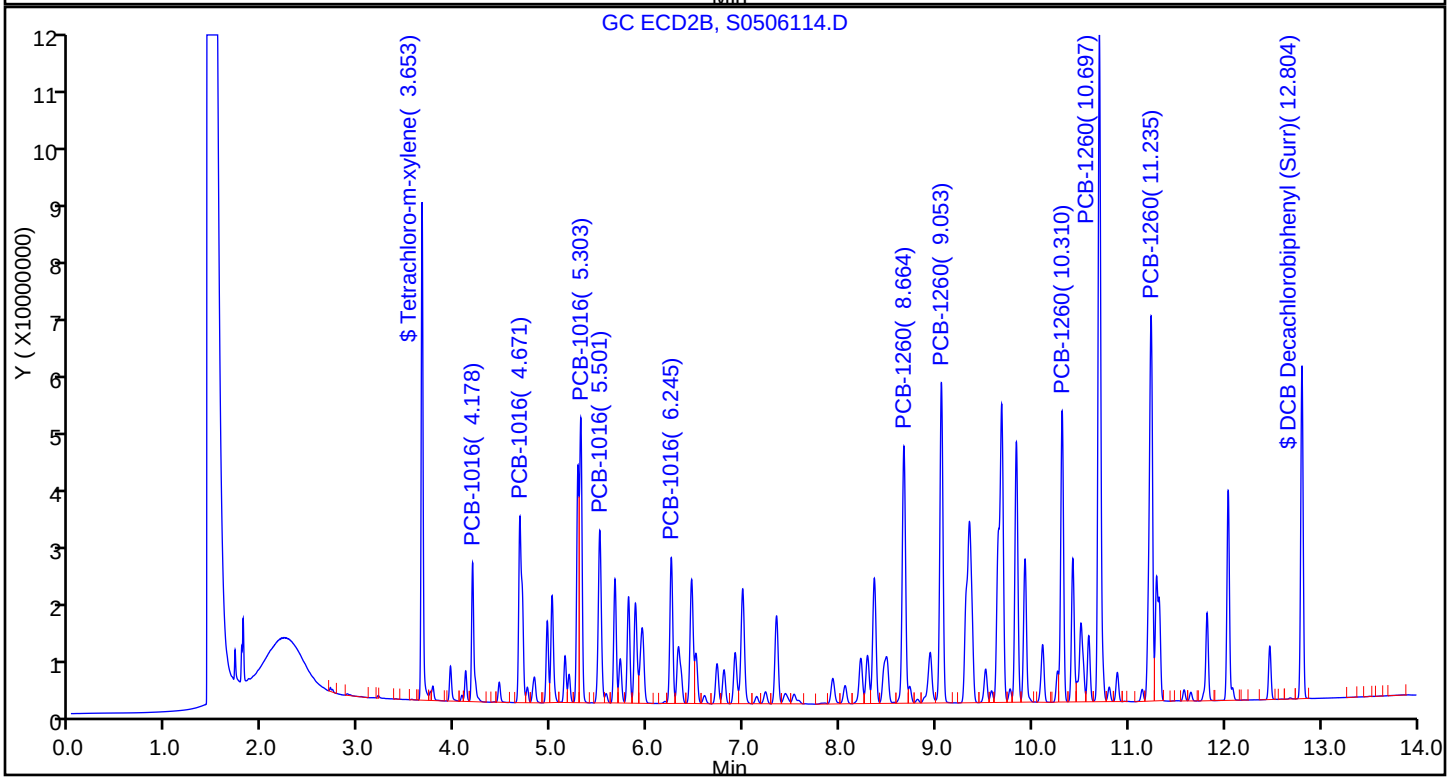
Client ID:

Operator ID: 402331 ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 06-May-2015 16:34:21 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-015
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:32:49 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:30:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							M
1	3.182	3.177	0.005	199586255H	0.2000	0.1921	M
2	3.655	3.650	0.005	158427854H	0.2000	0.1761	
						RPD = 8.67	
3 PCB-1016							M
1	3.491	3.486	0.005	70989522H	4.00	3.65	M
1	3.823	3.820	0.003	96870119H	4.00	3.43	M
1	4.312	4.309	0.003	152079296H	4.00	3.69	M
1	4.462	4.459	0.003	90651200H	4.00	3.67	M
1	4.957	4.954	0.003	73455086H	4.00	3.66	M
		Average of Peak Amounts =				3.62	
2	4.179	4.176	0.003	42823845H	4.00	3.33	
2	4.672	4.669	0.003	57694752H	4.00	3.28	
2	5.304	5.301	0.003	89813235H	4.00	3.49	
2	5.502	5.499	0.003	53664519H	4.00	3.32	
2	6.246	6.244	0.002	46017512H	4.00	3.41	
		Average of Peak Amounts =				3.36	
						RPD = 7.29	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							M
1	6.797	6.795	0.002	122568875H	4.00	3.62	M
1	7.299	7.296	0.003	177155560H	4.00	3.61	
1	8.556	8.554	0.002	122098117H	4.00	3.78	
1	9.127	9.126	0.001	296265798H	4.00	3.72	
1	9.608	9.606	0.002	164250182H	4.00	3.85	
		Average of Peak Amounts =				3.72	
2	8.666	8.663	0.003	81209126H	4.00	3.41	
2	9.055	9.052	0.003	99877883H	4.00	3.36	
2	10.309	10.310	-0.001	93078245H	4.00	3.44	
2	10.697	10.696	0.001	213890901H	4.00	3.55	
2	11.236	11.235	0.001	124251601H	4.00	3.52	
		Average of Peak Amounts =				3.46	
						RPD = 7.22	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.290	11.289	0.001	176189841H	0.2000	0.1908	
2	12.804	12.804	0.000	107709367H	0.2000	0.1792	
						RPD = 6.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL7_00009 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:32:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Injection Date: 06-May-2015 16:34:21 Instrument ID: CHGC10

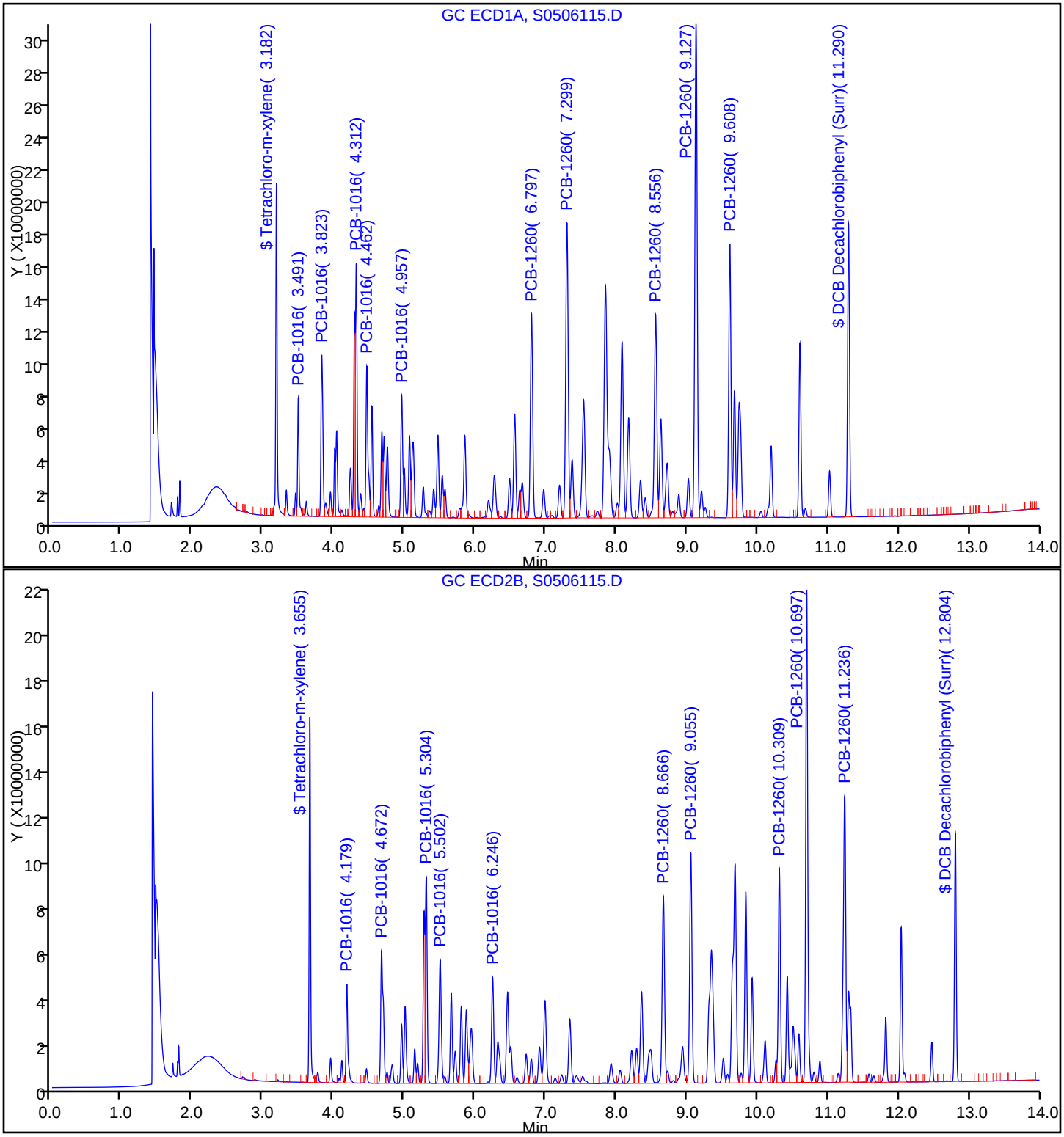
Lims ID: IC

Client ID:

Operator ID: 402331 ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



Manual Integration/User Assign Peak Report

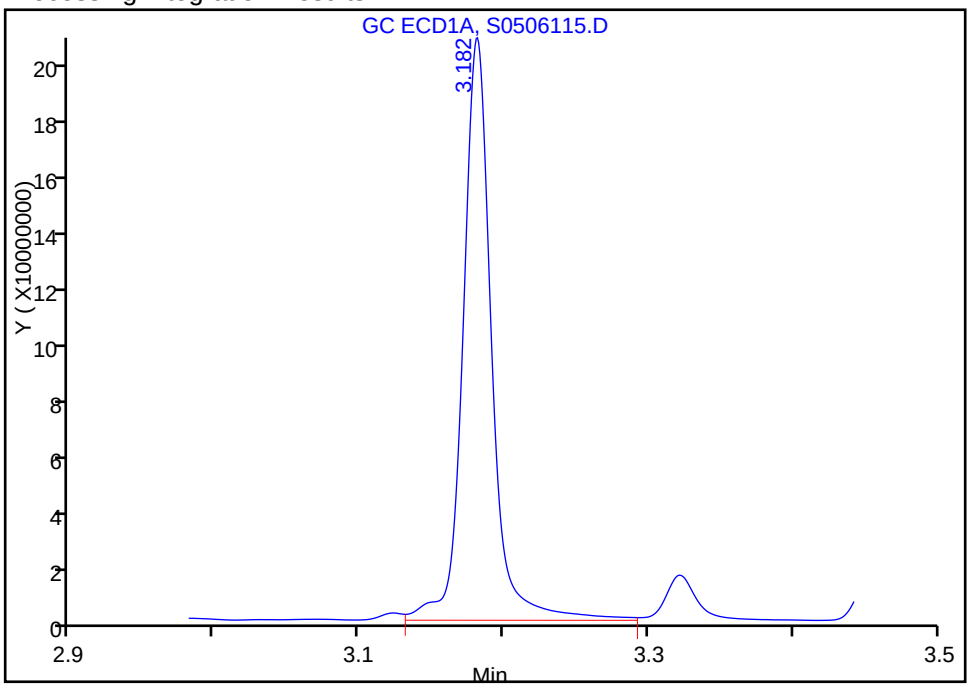
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D				
Injection Date:	06-May-2015 16:34:21	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		
Column:		Detector	GC ECD1A		

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

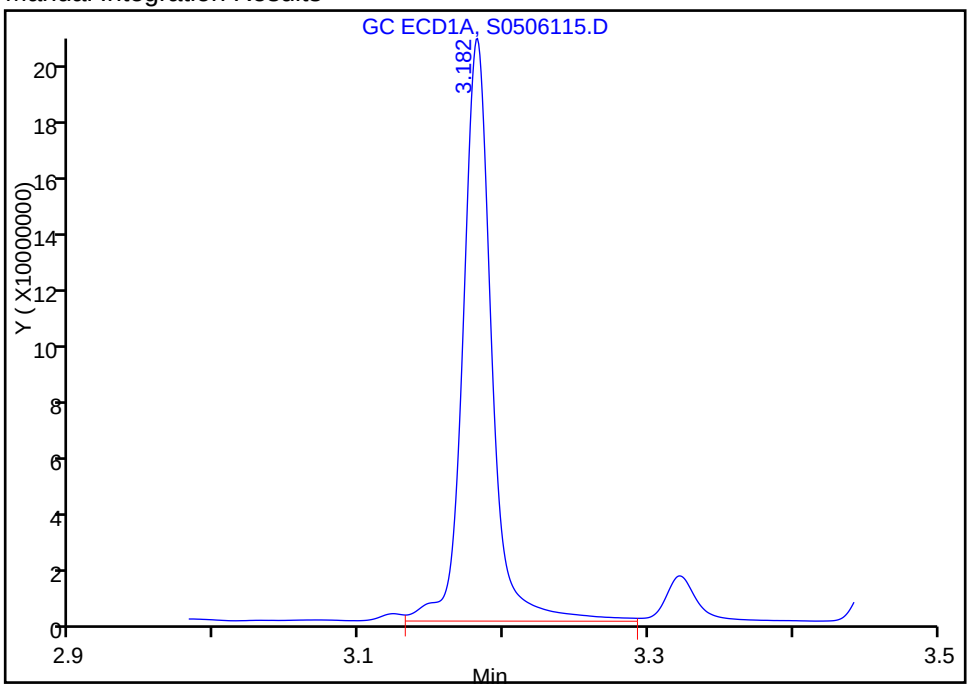
Processing Integration Results

RT: 3.18
Height: 199530529
Amount: 0.192031
Amount Units: ng



Manual Integration Results

RT: 3.18
Height: 199586255
Amount: 0.192077
Amount Units: ng



Reviewer: oravecj, 07-May-2015 07:30:59
Audit Action: Assigned New Baseline
Audit Reason: Instrument noise

Report Date: 07-May-2015 07:32:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Injection Date: 06-May-2015 16:34:21 Instrument ID: CHGC10

Lims ID: IC

Client ID:

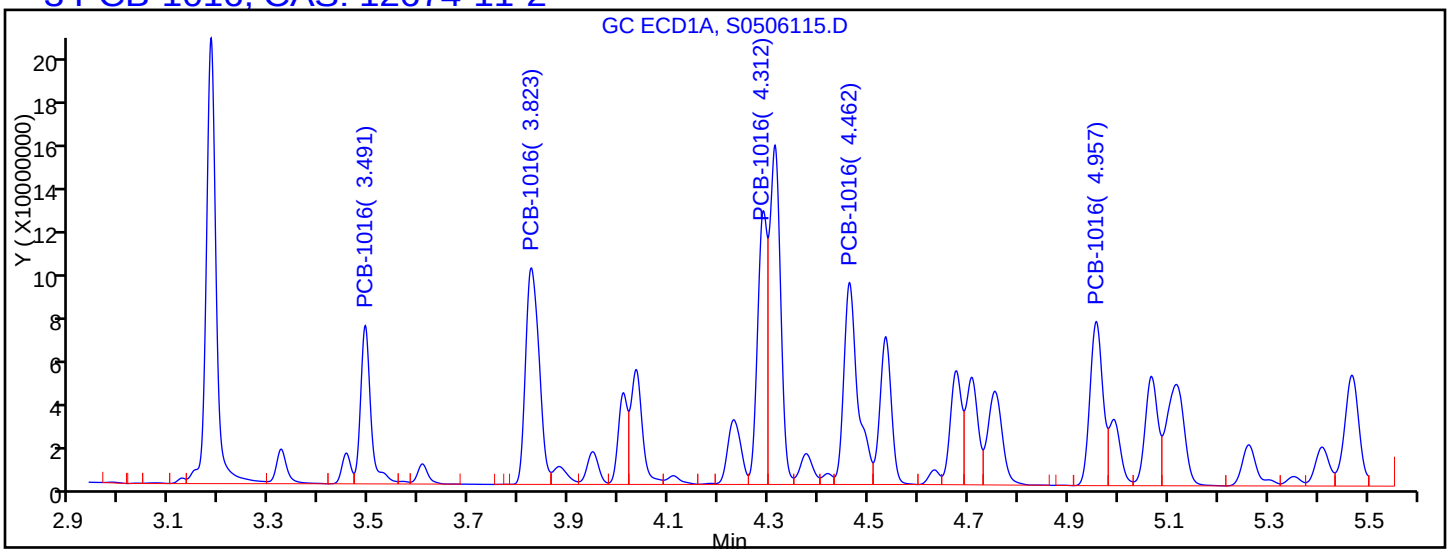
Operator ID: 402331 ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

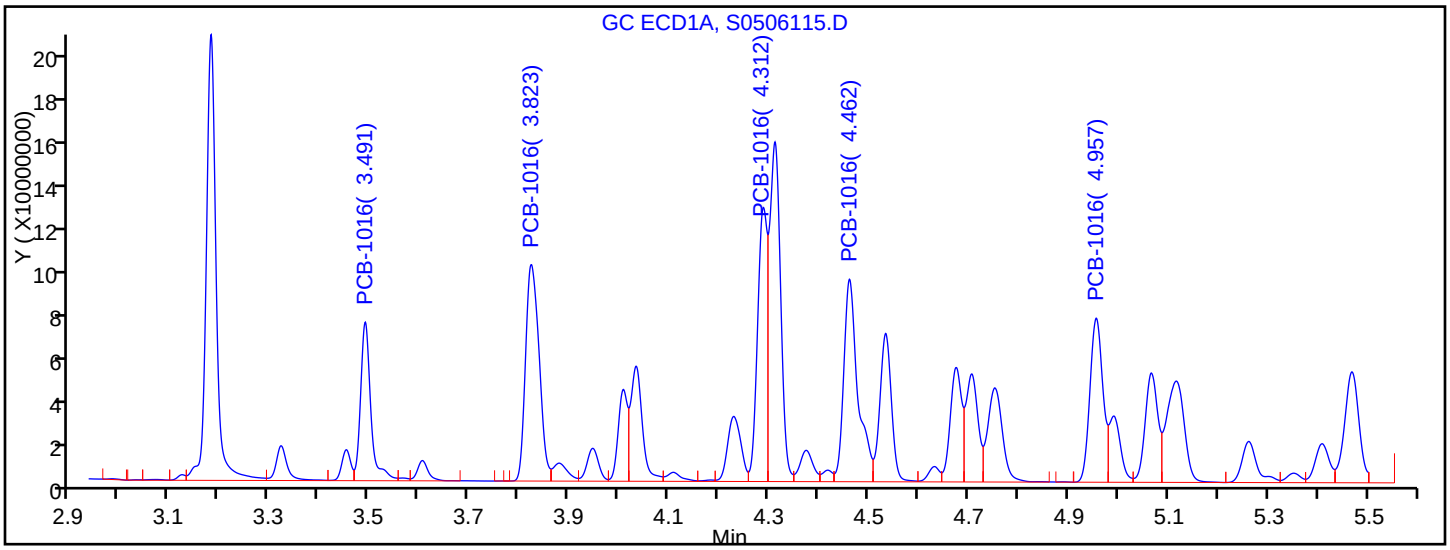
Column: Detector GC ECD1A

3 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 3.491	Response = 70899475	M
RT = 3.823	Response = 96856733	M
RT = 4.312	Response = 151864806	M
RT = 4.462	Response = 90375386	M
RT = 4.957	Response = 73466737	M



Manual Integration Results

RT = 3.491	Response = 70989522	M
RT = 3.823	Response = 96870119	M
RT = 4.312	Response = 152079296	M
RT = 4.462	Response = 90651200	M
RT = 4.957	Response = 73455086	M

Reviewer: oravecj, 07-May-2015 07:30:59

Audit Action: Assigned New Baseline

Audit Reason: Instrument noise

Report Date: 07-May-2015 07:32:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Injection Date: 06-May-2015 16:34:21 Instrument ID: CHGC10

Lims ID: IC

Client ID:

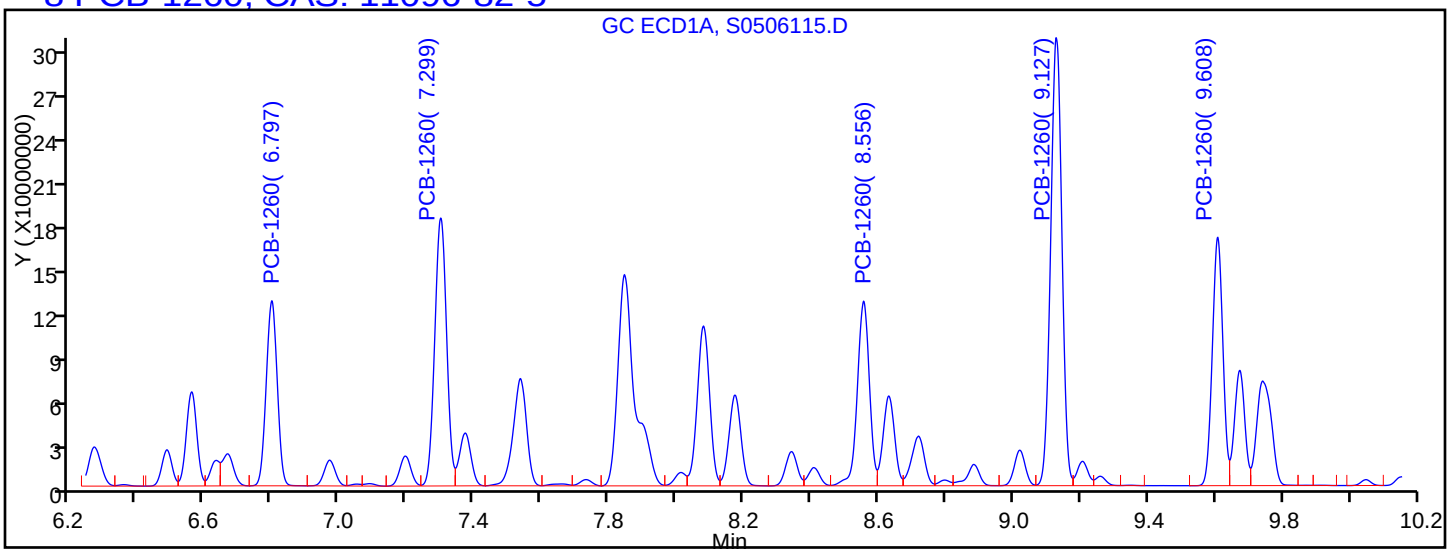
Operator ID: 402331 ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

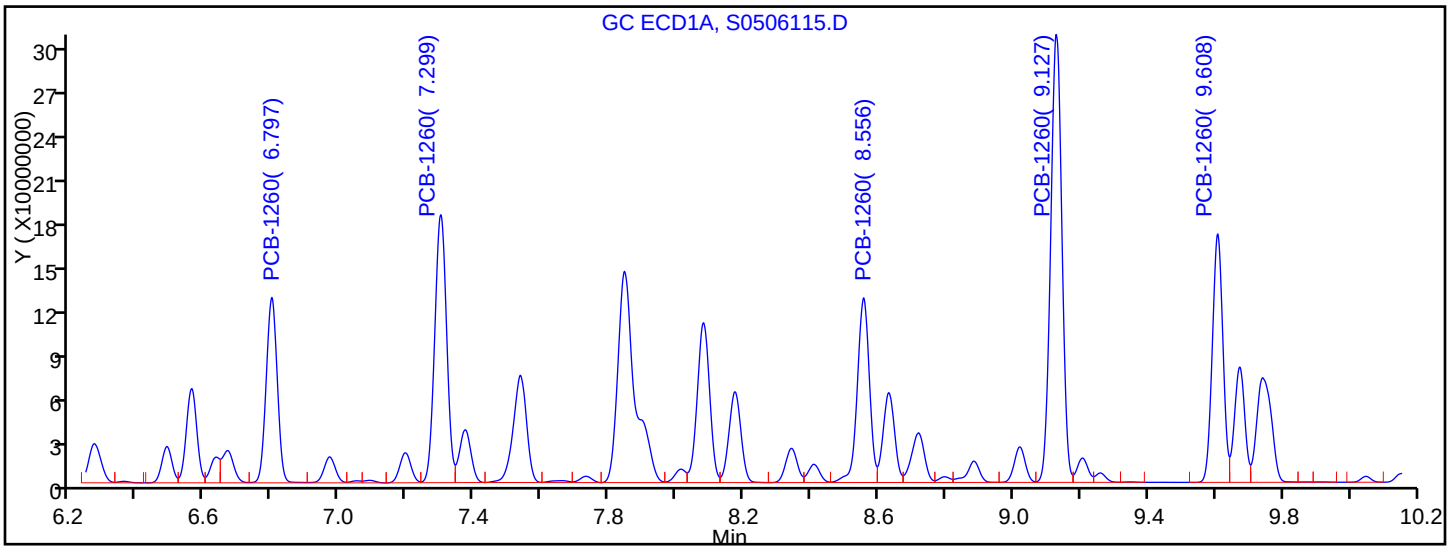
Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 6.797	Response = 122360686	M
RT = 7.299	Response = 177155560	
RT = 8.556	Response = 122098117	
RT = 9.127	Response = 296265798	
RT = 9.608	Response = 164250182	



Manual Integration Results

RT = 6.797	Response = 122568875	M
RT = 7.299	Response = 177155560	
RT = 8.556	Response = 122098117	
RT = 9.127	Response = 296265798	
RT = 9.608	Response = 164250182	

Reviewer: oravecj, 07-May-2015 07:30:59

Audit Action: Assigned New Baseline

Audit Reason: Instrument noise

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:41 Calibration End Date: 05/06/2015 16:34 Calibration ID: 23732

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/9	S0506109.D
Level 2	IC 180-140736/10	S0506110.D
Level 3	IC 180-140736/11	S0506111.D
Level 4	ICRT 180-140736/12	S0506112.D
Level 5	IC 180-140736/13	S0506113.D
Level 6	IC 180-140736/14	S0506114.D
Level 7	IC 180-140736/15	S0506115.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	4.176	4.177	4.176	4.176	4.177	4.178	4.179				4.126 - 4.226	4.177
PCB-1016 Peak 2	4.667	4.670	4.668	4.669	4.670	4.671	4.672				4.619 - 4.719	4.670
PCB-1016 Peak 3	5.272	5.302	5.301	5.301	5.302	5.303	5.304				5.251 - 5.351	5.298
PCB-1016 Peak 4	5.497	5.500	5.498	5.499	5.500	5.501	5.502				5.449 - 5.549	5.500
PCB-1016 Peak 5	6.245	6.245	6.243	6.244	6.243	6.245	6.246				6.194 - 6.294	6.244
PCB-1260 Peak 1	8.662	8.665	8.662	8.663	8.662	8.664	8.666				8.613 - 8.713	8.663
PCB-1260 Peak 2	9.052	9.054	9.053	9.052	9.052	9.053	9.055				9.002 - 9.102	9.053
PCB-1260 Peak 3	10.307	10.309	10.308	10.310	10.309	10.310	10.309				10.260 - 10.360	10.309
PCB-1260 Peak 4	10.694	10.697	10.695	10.696	10.696	10.697	10.697				10.646 - 10.746	10.696
PCB-1260 Peak 5	11.231	11.235	11.234	11.235	11.235	11.235	11.236				11.185 - 11.285	11.234
Tetrachloro-m-xylene (Surr)	3.649	3.651	3.651	3.650	3.652	3.653	3.655				3.600 - 3.700	3.652
DCB Decachlorobiphenyl (Surr)	12.803	12.804	12.802	12.804	12.803	12.804	12.804				12.734 - 12.874	12.803

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:41 Calibration End Date: 05/06/2015 16:34 Calibration ID: 23732

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/9	S0506109.D
Level 2	IC 180-140736/10	S0506110.D
Level 3	IC 180-140736/11	S0506111.D
Level 4	ICRT 180-140736/12	S0506112.D
Level 5	IC 180-140736/13	S0506113.D
Level 6	IC 180-140736/14	S0506114.D
Level 7	IC 180-140736/15	S0506115.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	13795400 13667514	13573280 11526099	13933250 10705961	12953790	Ave		12879327.7				9.8		20.0			
PCB-1016 Peak 2	19308800 18382817	19038840 15473287	18855550 14423688	17644524	Ave		17589643.6				10.8		20.0			
PCB-1016 Peak 3	23153900 28254928	27823020 23648554	28355315 22453309	26543618	Ave		25747520.5				10.0		20.0			
PCB-1016 Peak 4	18144000 16655679	17475240 14309854	17214130 13416130	16048472	Ave		16180500.6				10.7		20.0			
PCB-1016 Peak 5	14164900 14391571	14342680 12108240	14432585 11504378	13521458	Ave		13495115.9				8.9		20.0			
PCB-1260 Peak 1	25258100 25119616	25146640 21332464	25519720 20302282	24044764	Ave		23817655.1				8.9		20.0			
PCB-1260 Peak 2	33447400 31192509	30776260 26566437	31277575 24969471	29604318	Ave		29690567.0				9.9		20.0			
PCB-1260 Peak 3	29837000 28678343	28152640 24151268	28286975 23269561	27258320	Ave		27090586.8				9.0		20.0			
PCB-1260 Peak 4	65690800 63907647	60902620 55291192	62372910 53472725	59905274	Ave		60220452.5				7.4		20.0			
PCB-1260 Peak 5	38581900 37073550	36241360 31961781	36597550 31062900	35247728	Ave		35252395.5				7.8		20.0			
Tetrachloro-m-xylene (Surr)	900526000 973420320	925773200 825918830	968199800 792139270	910677400	Ave		899522117				7.6		20.0			
DCB Decachlorobiphenyl (Surr)	623494000 635190920	615078400 551470160	636184200 538546835	607147360	Ave		601015982				6.6		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1 Analy Batch No.: 140736

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2015 14:41 Calibration End Date: 05/06/2015 16:34 Calibration ID: 23732

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-140736/9	S0506109.D
Level 2	IC 180-140736/10	S0506110.D
Level 3	IC 180-140736/11	S0506111.D
Level 4	ICRT 180-140736/12	S0506112.D
Level 5	IC 180-140736/13	S0506113.D
Level 6	IC 180-140736/14	S0506114.D
Level 7	IC 180-140736/15	S0506115.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	137954 23052197	678664 42823845	2786650	6476895	13667514	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	193088 30946573	951942 57694752	3771110	8822262	18382817	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	231539 47297107	1391151 89813235	5671063	13271809	28254928	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	181440 28619707	873762 53664519	3442826	8024236	16655679	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	141649 24216479	717134 46017512	2886517	6760729	14391571	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	252581 42664928	1257332 81209126	5103944	12022382	25119616	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	334474 53132873	1538813 99877883	6255515	14802159	31192509	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	298370 48302536	1407632 93078245	5657395	13629160	28678343	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	656908 110582383	3045131 213890901	12474582	29952637	63907647	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	385819 63923561	1812068 124251601	7319510	17623864	37073550	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
Tetrachloro-m-xylene (Surr)	Ave	450263 82591883	2314433 158427854	9681998	22766935	48671016	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl (Surr)	Ave	311747 55147016	1537696 107709367	6361842	15178684	31759546	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506109.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-May-2015 14:41:28 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-009
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:11 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.176	3.177	-0.001	383232H	0.000500	0.000369	
2	3.649	3.650	-0.001	450263H	0.000500	0.000501	
						RPD = 30.31	
3 PCB-1016							
1	3.487	3.486	0.001	189446H	0.0100	0.009734	
1	3.819	3.820	-0.001	303600H	0.0100	0.0108	
1	4.309	4.309	0.000	394035H	0.0100	0.009562	
1	4.460	4.459	0.001	236288H	0.0100	0.009558	
1	4.954	4.954	0.000	199796H	0.0100	0.0099	
		Average of Peak Amounts =				0.0099	
2	4.176	4.176	0.000	137954H	0.0100	0.0107	
2	4.667	4.669	-0.002	193088H	0.0100	0.0110	
2	5.272	5.301	-0.029	231539H	0.0100	0.008993	
2	5.497	5.499	-0.002	181440H	0.0100	0.0112	
2	6.245	6.244	0.001	141649H	0.0100	0.0105	
		Average of Peak Amounts =				0.0105	
						RPD = 5.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.794	6.795	-0.001	350328H	0.0100	0.0103	
1	7.294	7.296	-0.002	488410H	0.0100	0.0100	
1	8.551	8.554	-0.003	303719H	0.0100	0.009415	
1	9.127	9.126	0.001	763939H	0.0100	0.009593	
1	9.607	9.606	0.001	386396H	0.0100	0.009048	
		Average of Peak Amounts =				0.009671	
2	8.662	8.663	-0.001	252581H	0.0100	0.0106	
2	9.052	9.052	0.000	334474H	0.0100	0.0113	
2	10.307	10.310	-0.003	298370H	0.0100	0.0110	
2	10.694	10.696	-0.002	656908H	0.0100	0.0109	
2	11.231	11.235	-0.004	385819H	0.0100	0.0109	
		Average of Peak Amounts =				0.0109	
						RPD = 12.38	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.288	11.289	-0.001	449934H	0.000500	0.000487	
2	12.803	12.804	-0.001	311747H	0.000500	0.000519	
						RPD = 6.26	

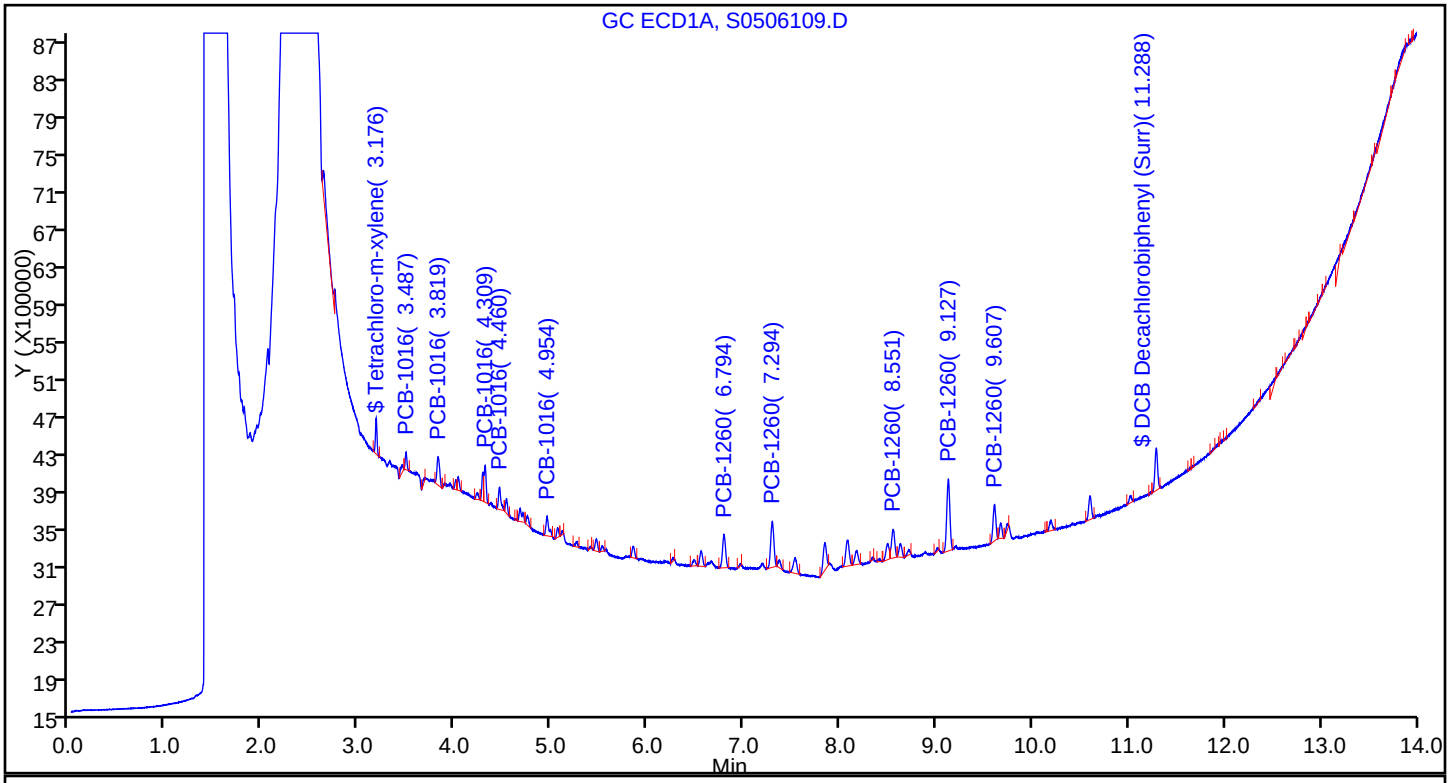
Reagents:

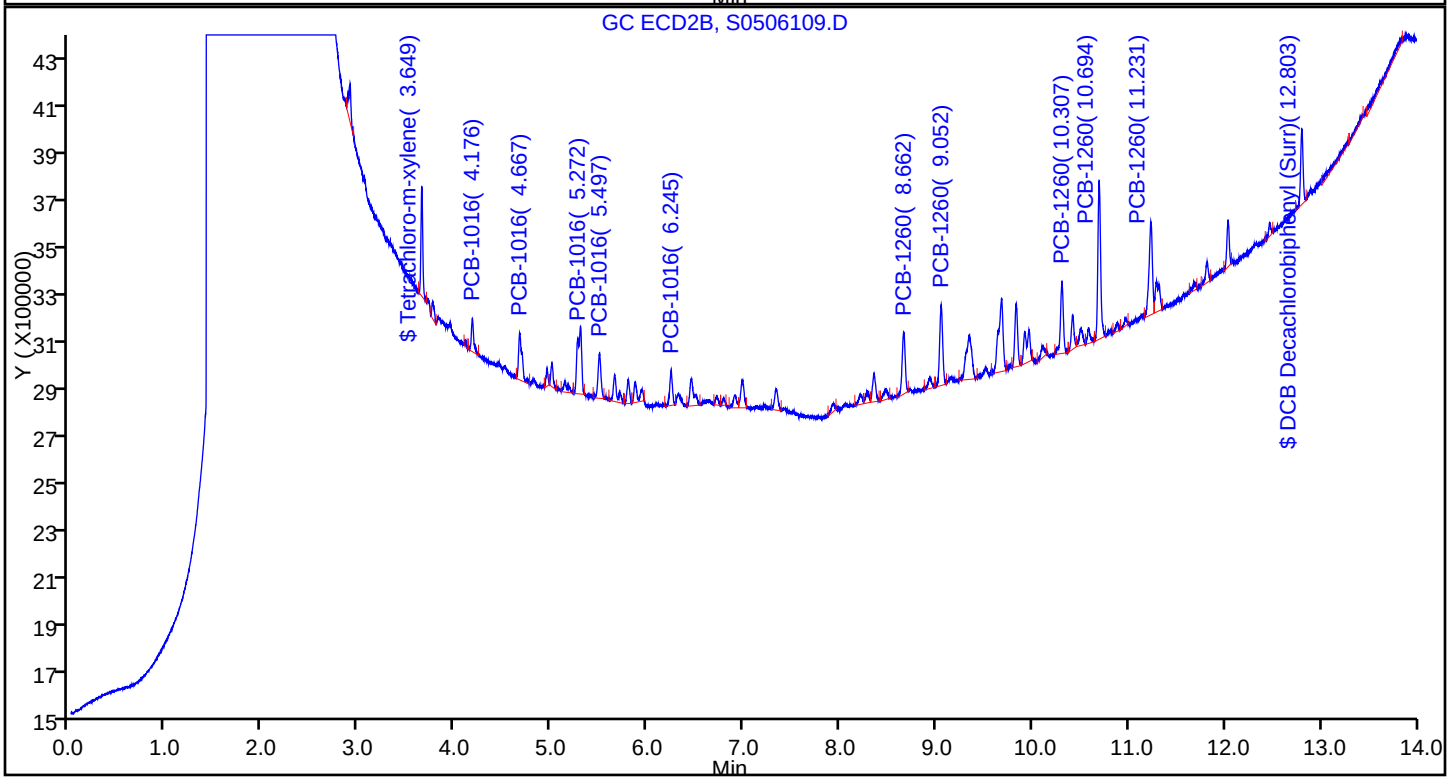
GCAR1660CALL1_00015 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506109.D				
Injection Date:	06-May-2015 14:41:28	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:	402331	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506110.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-May-2015 15:00:16 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-010
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:08 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.177	3.177	0.000	2393857H	0.002500	0.002304	
2	3.651	3.650	0.001	2314433H	0.002500	0.002573	
						RPD = 11.04	
3 PCB-1016							
1	3.488	3.486	0.002	963956H	0.0500	0.0495	
1	3.820	3.820	0.000	1465628H	0.0500	0.0519	
1	4.310	4.309	0.001	1989015H	0.0500	0.0483	
1	4.460	4.459	0.001	1209582H	0.0500	0.0489	
1	4.955	4.954	0.001	964749H	0.0500	0.0480	
		Average of Peak Amounts =				0.0493	
2	4.177	4.176	0.001	678664H	0.0500	0.0527	
2	4.670	4.669	0.001	951942H	0.0500	0.0541	
2	5.302	5.301	0.001	1391151H	0.0500	0.0540	
2	5.500	5.499	0.001	873762H	0.0500	0.0540	
2	6.245	6.244	0.001	717134H	0.0500	0.0531	
		Average of Peak Amounts =				0.0536	
						RPD = 8.29	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.795	6.795	0.000	1681145H	0.0500	0.0496	
1	7.298	7.296	0.002	2476510H	0.0500	0.0505	
1	8.555	8.554	0.001	1565150H	0.0500	0.0485	
1	9.129	9.126	0.003	3776295H	0.0500	0.0474	
1	9.608	9.606	0.002	2027385H	0.0500	0.0475	
		Average of Peak Amounts =				0.0487	
2	8.665	8.663	0.002	1257332H	0.0500	0.0528	
2	9.054	9.052	0.002	1538813H	0.0500	0.0518	
2	10.309	10.310	-0.001	1407632H	0.0500	0.0520	
2	10.697	10.696	0.001	3045131H	0.0500	0.0506	
2	11.235	11.235	0.000	1812068H	0.0500	0.0514	
		Average of Peak Amounts =				0.0517	
						RPD = 5.98	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.289	11.289	0.000	2233387H	0.002500	0.002418	
2	12.804	12.804	0.000	1537696H	0.002500	0.002558	
						RPD = 5.63	

Reagents:

GCAR1660CALL2_00010 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506110.D

Injection Date: 06-May-2015 15:00:16 Instrument ID: CHGC10

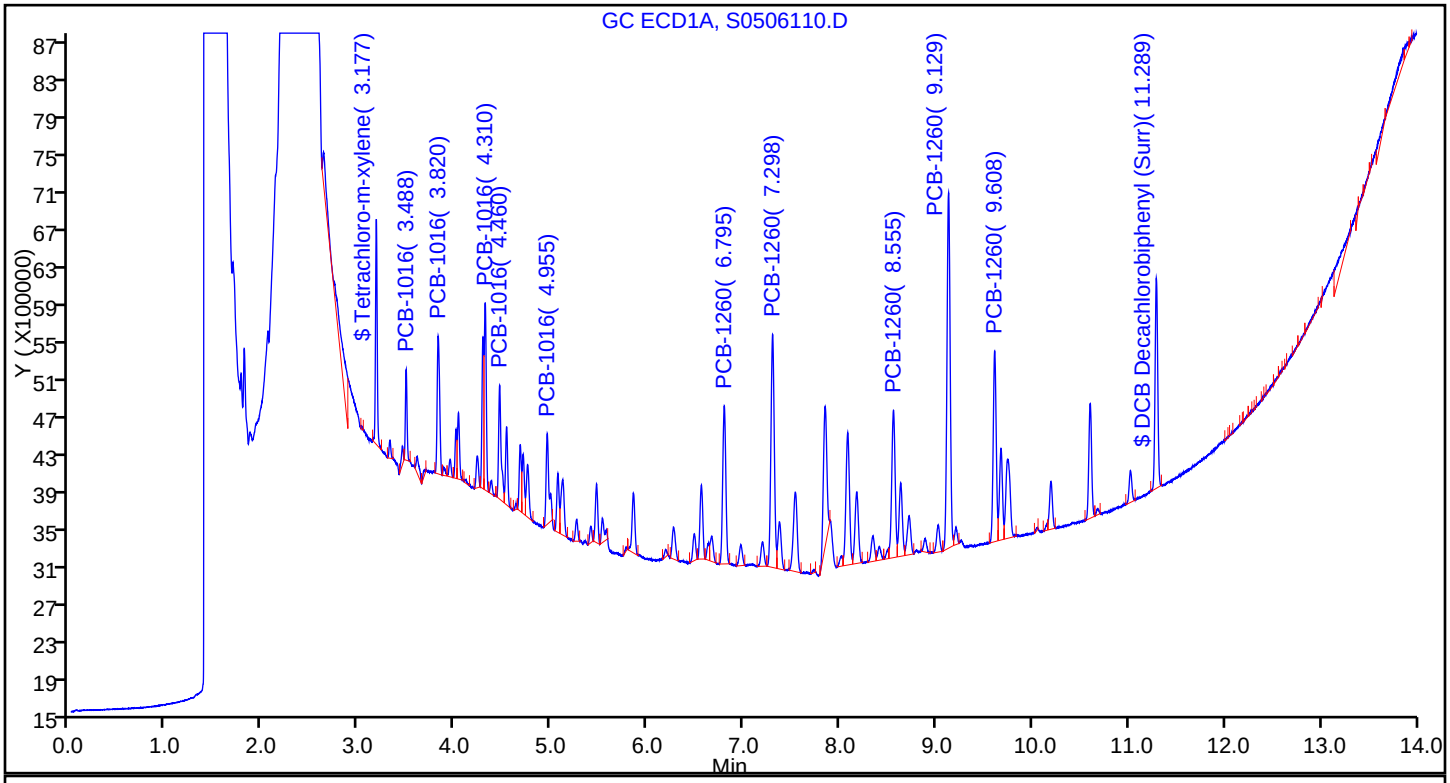
Lims ID: IC

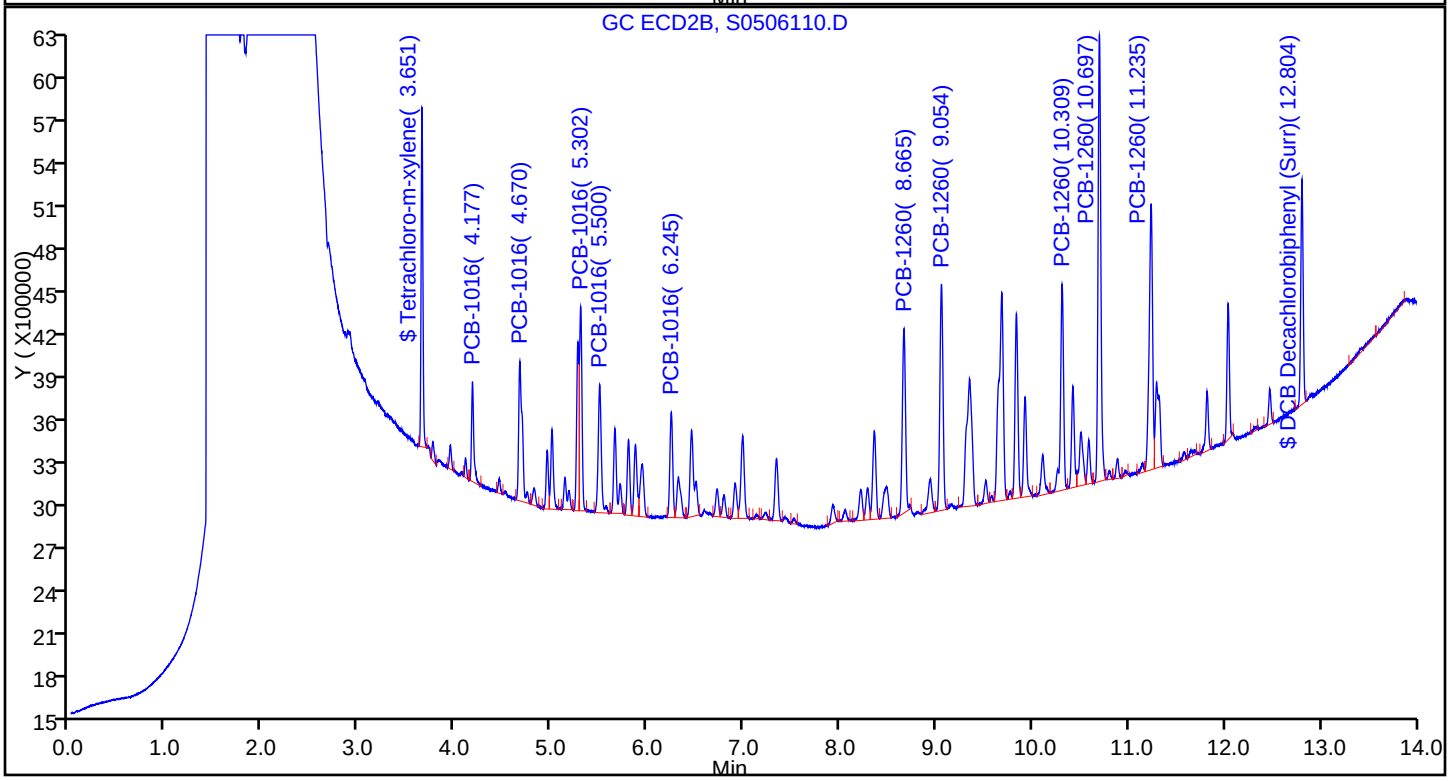
Client ID:

Operator ID: 402331 ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506111.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 06-May-2015 15:19:05 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-011
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:06 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:23:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.176	3.177	-0.001	11114704H	0.0100	0.0107	
2	3.651	3.650	0.001	9681998H	0.0100	0.0108	
						RPD = 0.62	
3 PCB-1016							
1	3.487	3.486	0.001	4067895H	0.2000	0.2090	
1	3.820	3.820	0.000	5990844H	0.2000	0.2121	
1	4.309	4.309	0.000	8682276H	0.2000	0.2107	
1	4.459	4.459	0.000	5241472H	0.2000	0.2120	
1	4.954	4.954	0.000	4210032H	0.2000	0.2096	
		Average of Peak Amounts =				0.2107	
2	4.176	4.176	0.000	2786650H	0.2000	0.2164	
2	4.668	4.669	-0.001	3771110H	0.2000	0.2144	
2	5.301	5.301	0.000	5671063H	0.2000	0.2203	
2	5.498	5.499	-0.001	3442826H	0.2000	0.2128	
2	6.243	6.244	-0.001	2886517H	0.2000	0.2139	
		Average of Peak Amounts =				0.2155	
						RPD = 2.27	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.795	6.795	0.000	6908352H	0.2000	0.2039	
1	7.296	7.296	0.000	10127706H	0.2000	0.2065	
1	8.552	8.554	-0.002	6676218H	0.2000	0.2070	
1	9.126	9.126	0.000	16367441H	0.2000	0.2055	
1	9.606	9.606	0.000	8823193H	0.2000	0.2066	
		Average of Peak Amounts =				0.2059	
2	8.662	8.663	-0.001	5103944H	0.2000	0.2143	
2	9.053	9.052	0.001	6255515H	0.2000	0.2107	
2	10.308	10.310	-0.002	5657395H	0.2000	0.2088	
2	10.695	10.696	-0.001	12474582H	0.2000	0.2071	
2	11.234	11.235	-0.001	7319510H	0.2000	0.2076	
		Average of Peak Amounts =				0.2097	
						RPD = 1.84	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.288	11.289	-0.001	9509705H	0.0100	0.0103	
2	12.802	12.804	-0.002	6361842H	0.0100	0.0106	
						RPD = 2.75	

Reagents:

GCAR1660CALL3_00009 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506111.D

Injection Date: 06-May-2015 15:19:05 Instrument ID: CHGC10

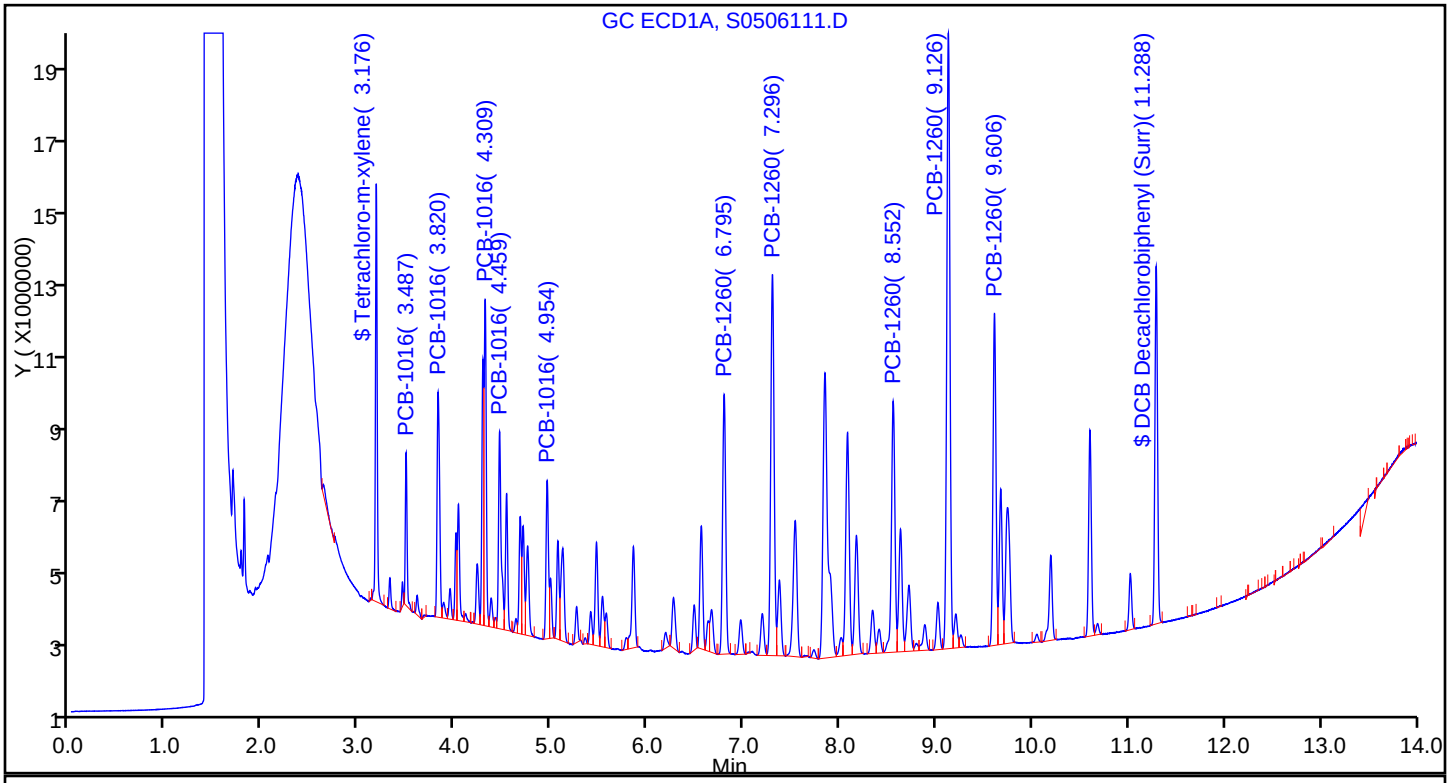
Lims ID: IC

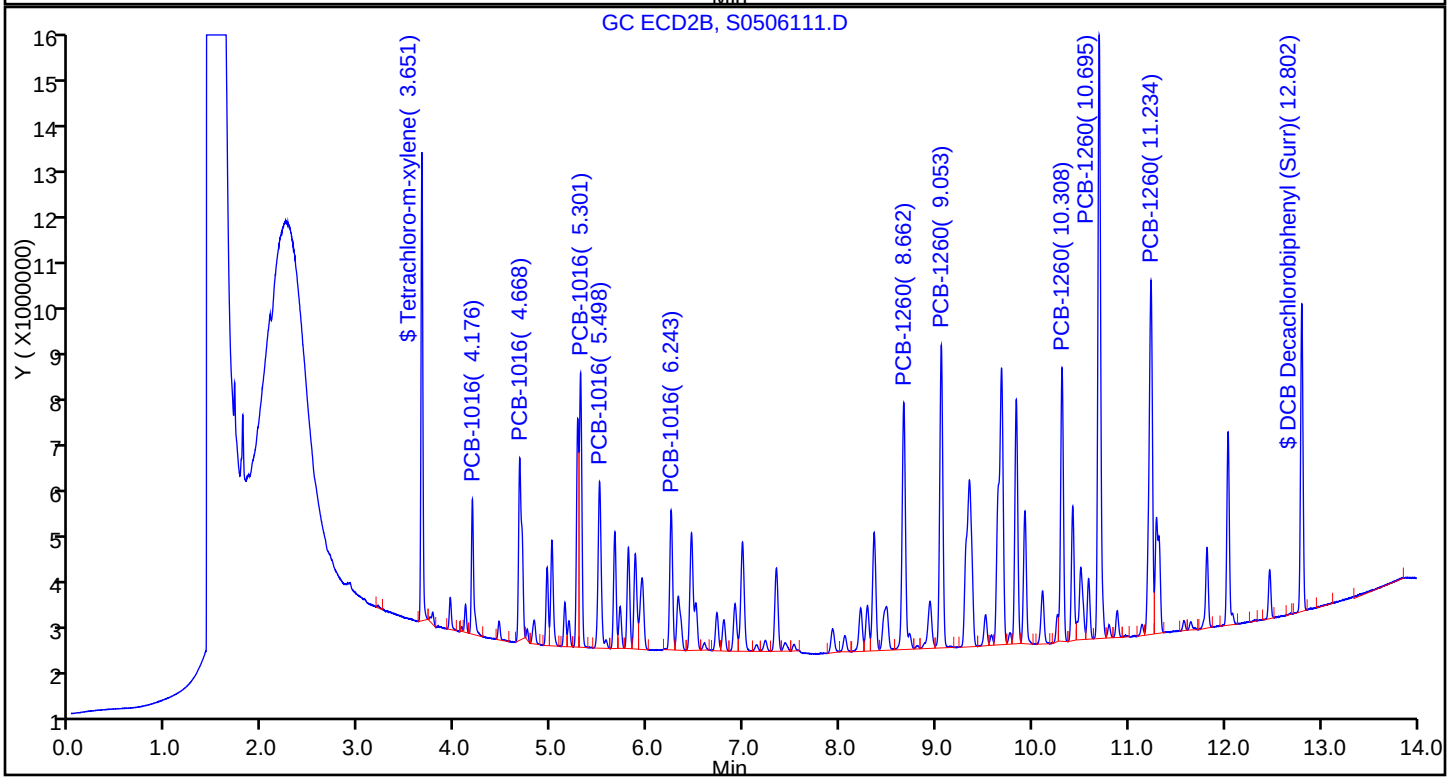
Client ID:

Operator ID: 402331 ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506112.D
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 4
Inject. Date: 06-May-2015 15:37:53 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-012
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:33:03 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.177	3.177	0.000	27272622H	0.0250	0.0262	
2	3.650	3.650	0.000	22766935H	0.0250	0.0253	
						RPD = 3.63	
3 PCB-1016							
1	3.486	3.486	0.000	10072179H	0.5000	0.5175	
1	3.820	3.820	0.000	14118496H	0.5000	0.4999	
1	4.309	4.309	0.000	21133218H	0.5000	0.5128	
1	4.459	4.459	0.000	12637823H	0.5000	0.5112	
1	4.954	4.954	0.000	10157216H	0.5000	0.5056	
		Average of Peak Amounts =				0.5094	
2	4.176	4.176	0.000	6476895H	0.5000	0.5029	
2	4.669	4.669	0.000	8822262H	0.5000	0.5016	
2	5.301	5.301	0.000	13271809H	0.5000	0.5155	
2	5.499	5.499	0.000	8024236H	0.5000	0.4959	
2	6.244	6.244	0.000	6760729H	0.5000	0.5010	
		Average of Peak Amounts =				0.5034	
						RPD = 1.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.795	6.795	0.000	17130880H	0.5000	0.5055	
1	7.296	7.296	0.000	24864785H	0.5000	0.5071	
1	8.554	8.554	0.000	16283931H	0.5000	0.5048	
1	9.126	9.126	0.000	40951896H	0.5000	0.5142	
1	9.606	9.606	0.000	22077124H	0.5000	0.5169	
		Average of Peak Amounts =				0.5097	
2	8.663	8.663	0.000	12022382H	0.5000	0.5048	
2	9.052	9.052	0.000	14802159H	0.5000	0.4985	
2	10.310	10.310	0.000	13629160H	0.5000	0.5031	
2	10.696	10.696	0.000	29952637H	0.5000	0.4974	
2	11.235	11.235	0.000	17623864H	0.5000	0.4999	
		Average of Peak Amounts =				0.5007	
						RPD = 1.78	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.289	11.289	0.000	23465456H	0.0250	0.0254	
2	12.804	12.804	0.000	15178684H	0.0250	0.0253	
						RPD = 0.61	

Reagents:

GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:33:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506112.D

Injection Date: 06-May-2015 15:37:53 Instrument ID: CHGC10

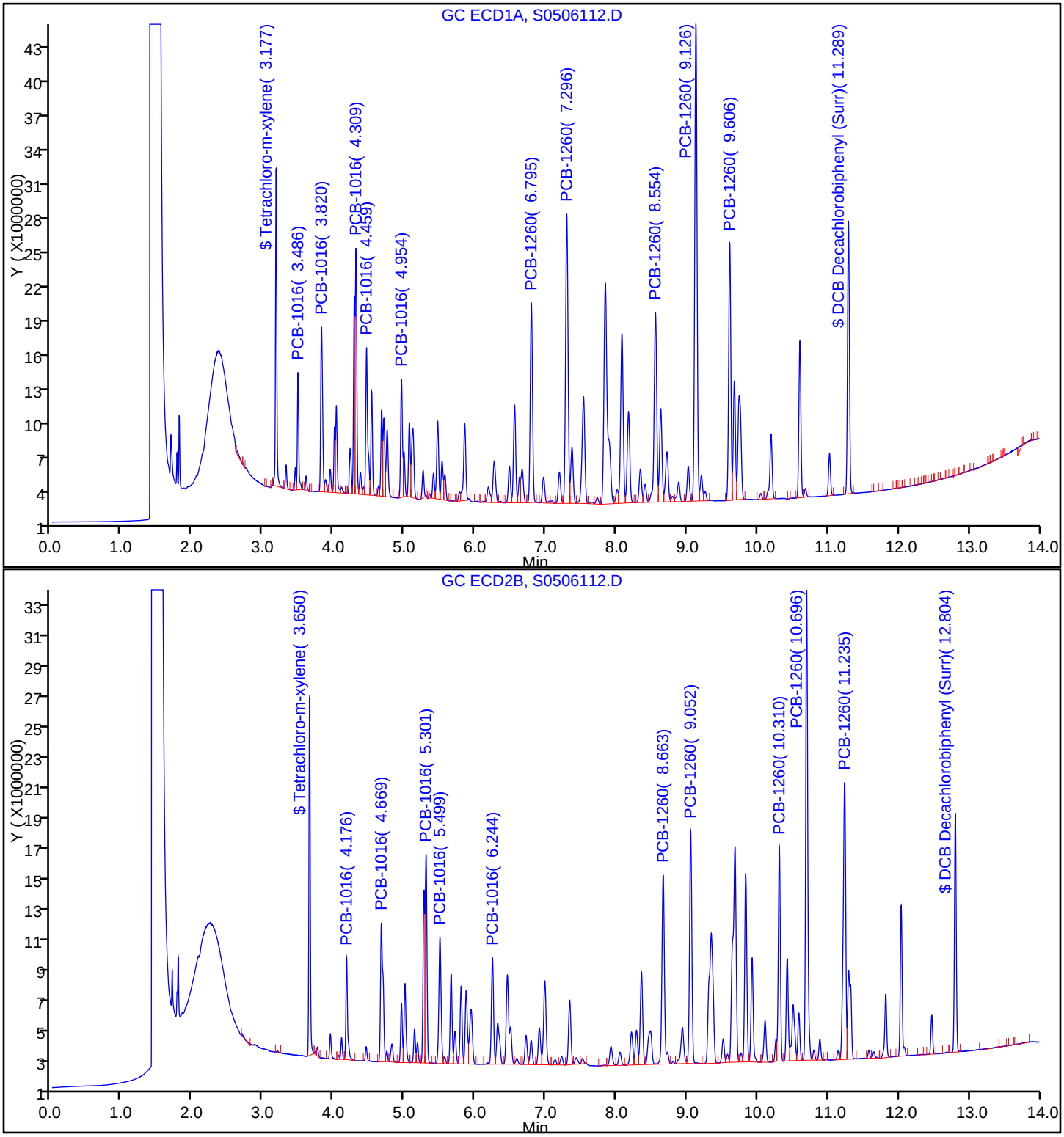
Lims ID: ICRT

Client ID:

Operator ID: 402331 ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506113.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-May-2015 15:56:43 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-013
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:32:58 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.177	0.002	60383511H	0.0500	0.0581	
2	3.652	3.650	0.002	48671016H	0.0500	0.0541	
						RPD = 7.14	
3 PCB-1016							
1	3.489	3.486	0.003	21374438H	1.00	1.10	
1	3.821	3.820	0.001	30099814H	1.00	1.07	
1	4.310	4.309	0.001	46172212H	1.00	1.12	
1	4.460	4.459	0.001	27461014H	1.00	1.11	
1	4.955	4.954	0.001	22351646H	1.00	1.11	
		Average of Peak Amounts =				1.10	
2	4.177	4.176	0.001	13667514H	1.00	1.06	
2	4.670	4.669	0.001	18382817H	1.00	1.05	
2	5.302	5.301	0.001	28254928H	1.00	1.10	
2	5.500	5.499	0.001	16655679H	1.00	1.03	
2	6.243	6.244	-0.001	14391571H	1.00	1.07	
		Average of Peak Amounts =				1.06	
						RPD = 3.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.795	6.795	0.000	36835681H	1.00	1.09	
1	7.297	7.296	0.001	53574888H	1.00	1.09	
1	8.555	8.554	0.001	36104065H	1.00	1.12	
1	9.129	9.126	0.003	89689000H	1.00	1.13	
1	9.607	9.606	0.001	48048327H	1.00	1.13	
		Average of Peak Amounts =				1.11	
2	8.662	8.663	-0.001	25119616H	1.00	1.05	
2	9.052	9.052	0.000	31192509H	1.00	1.05	
2	10.309	10.310	-0.001	28678343H	1.00	1.06	
2	10.696	10.696	0.000	63907647H	1.00	1.06	
2	11.235	11.235	0.000	37073550H	1.00	1.05	
		Average of Peak Amounts =				1.06	
						RPD = 5.05	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.290	11.289	0.001	50814962H	0.0500	0.0550	
2	12.803	12.804	-0.001	31759546H	0.0500	0.0528	
						RPD = 4.05	

Reagents:

GCAR1660CALL5_00010 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:32:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506113.D

Injection Date: 06-May-2015 15:56:43 Instrument ID: CHGC10

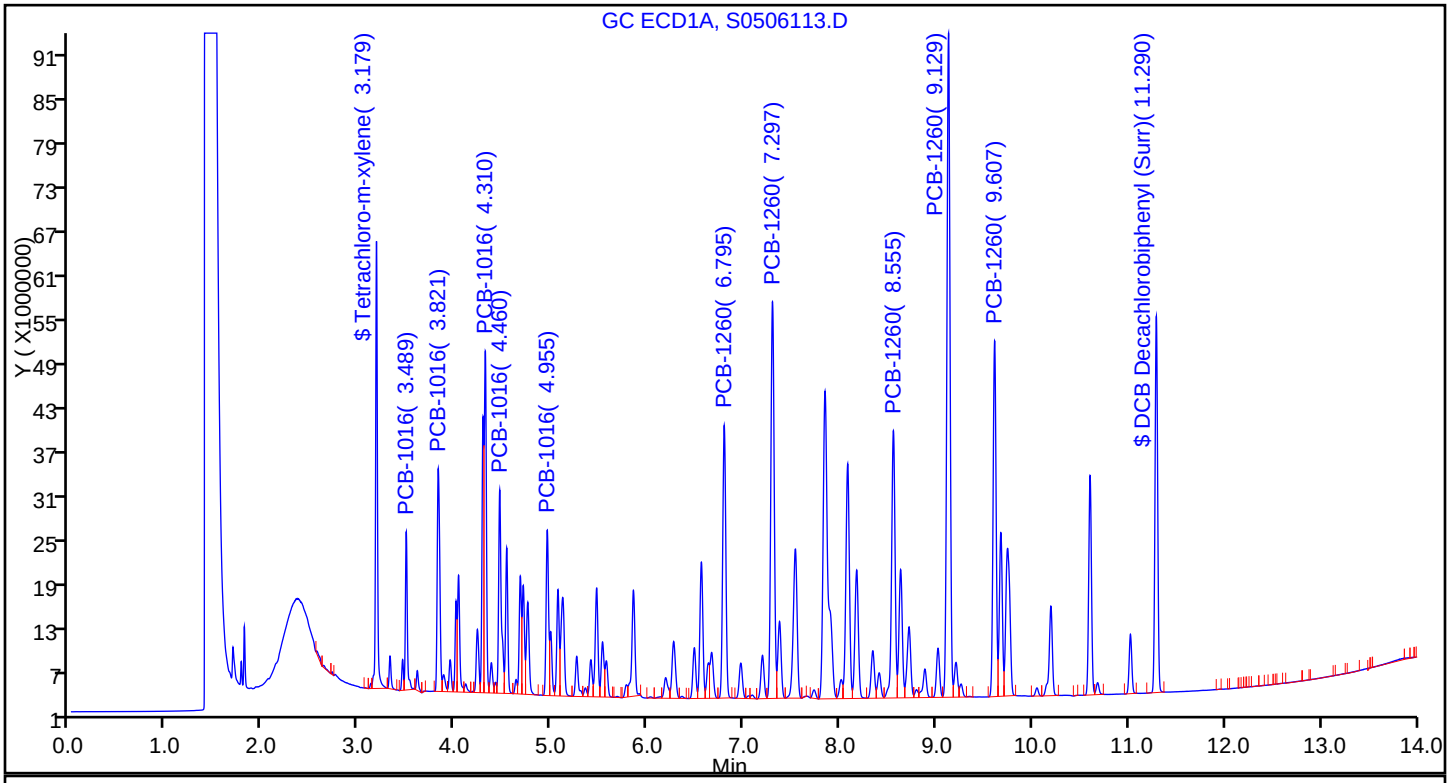
Lims ID: IC

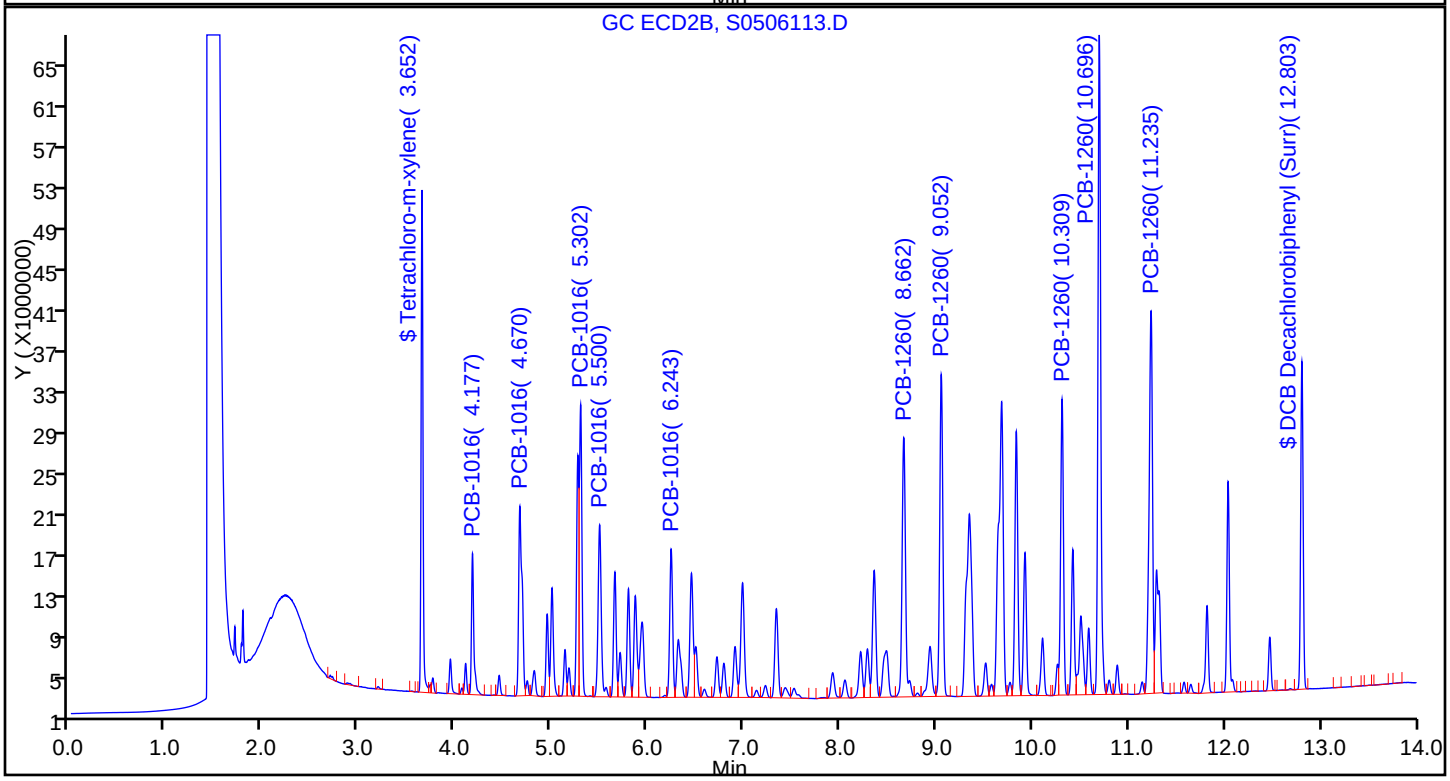
Client ID:

Operator ID: 402331 ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506114.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-May-2015 16:15:32 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-014
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:32:54 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.177	0.002	114168850H	0.1000	0.1099	
2	3.653	3.650	0.003	82591883H	0.1000	0.0918	
						RPD = 17.90	
3 PCB-1016							
1	3.489	3.486	0.003	36803399H	2.00	1.89	
1	3.822	3.820	0.002	51001548H	2.00	1.81	
1	4.311	4.309	0.002	78838049H	2.00	1.91	
1	4.461	4.459	0.002	47249292H	2.00	1.91	
1	4.956	4.954	0.002	38515409H	2.00	1.92	
		Average of Peak Amounts =				1.89	
2	4.178	4.176	0.002	23052197H	2.00	1.79	
2	4.671	4.669	0.002	30946573H	2.00	1.76	
2	5.303	5.301	0.002	47297107H	2.00	1.84	
2	5.501	5.499	0.002	28619707H	2.00	1.77	
2	6.245	6.244	0.001	24216479H	2.00	1.79	
		Average of Peak Amounts =				1.79	
						RPD = 5.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.797	6.795	0.002	64526974H	2.00	1.90	
1	7.297	7.296	0.001	93300082H	2.00	1.90	
1	8.555	8.554	0.001	63119492H	2.00	1.96	
1	9.127	9.126	0.001	156108537H	2.00	1.96	
1	9.607	9.606	0.001	84754292H	2.00	1.98	
		Average of Peak Amounts =				1.94	
2	8.664	8.663	0.001	42664928H	2.00	1.79	
2	9.053	9.052	0.001	53132873H	2.00	1.79	
2	10.310	10.310	0.000	48302536H	2.00	1.78	
2	10.697	10.696	0.001	110582383H	2.00	1.84	
2	11.235	11.235	0.000	63923561H	2.00	1.81	
		Average of Peak Amounts =				1.80	
						RPD = 7.42	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.289	11.289	0.000	88426121H	0.1000	0.0958	
2	12.804	12.804	0.000	55147016H	0.1000	0.0918	
						RPD = 4.26	

Reagents:

GCAR1660CALL6_00008 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:32:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506114.D

Injection Date: 06-May-2015 16:15:32 Instrument ID: CHGC10

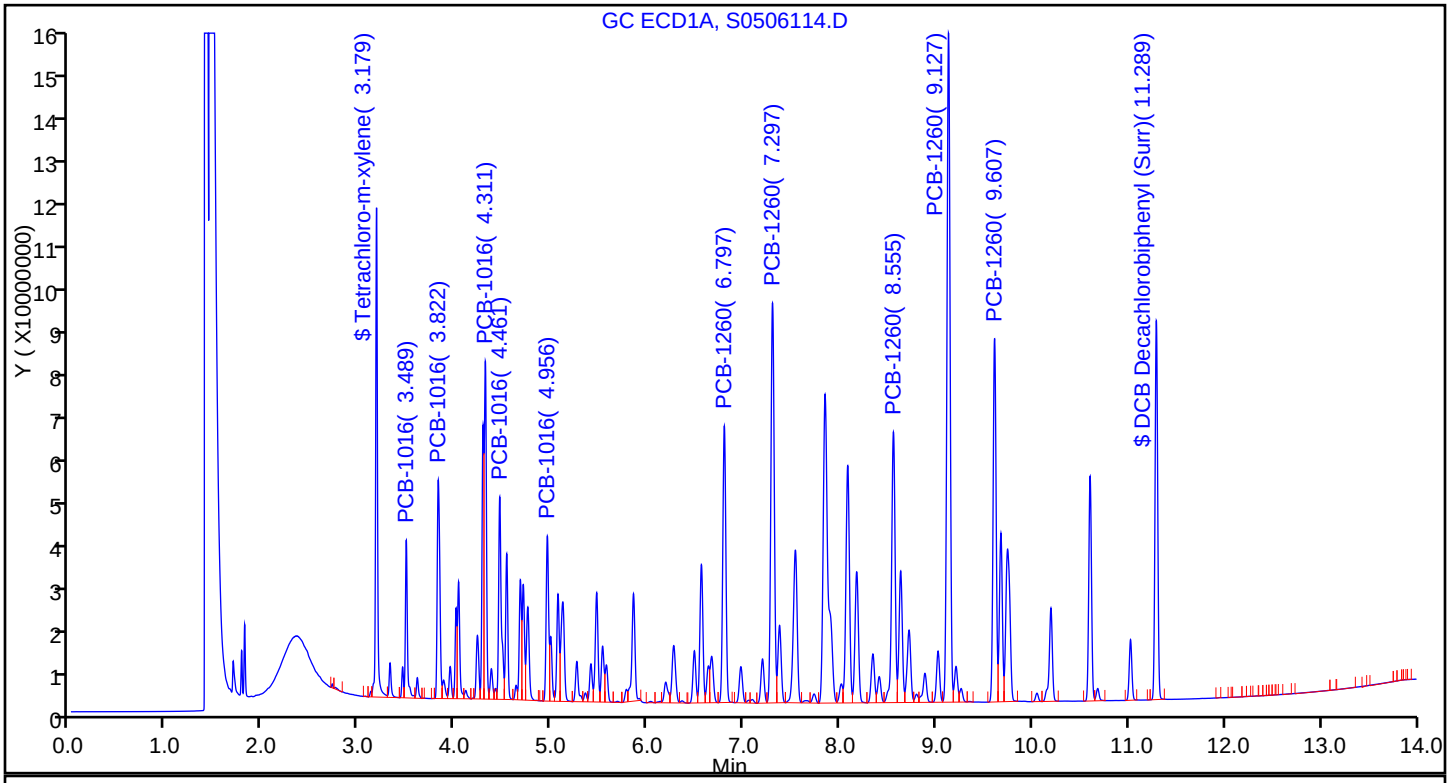
Lims ID: IC

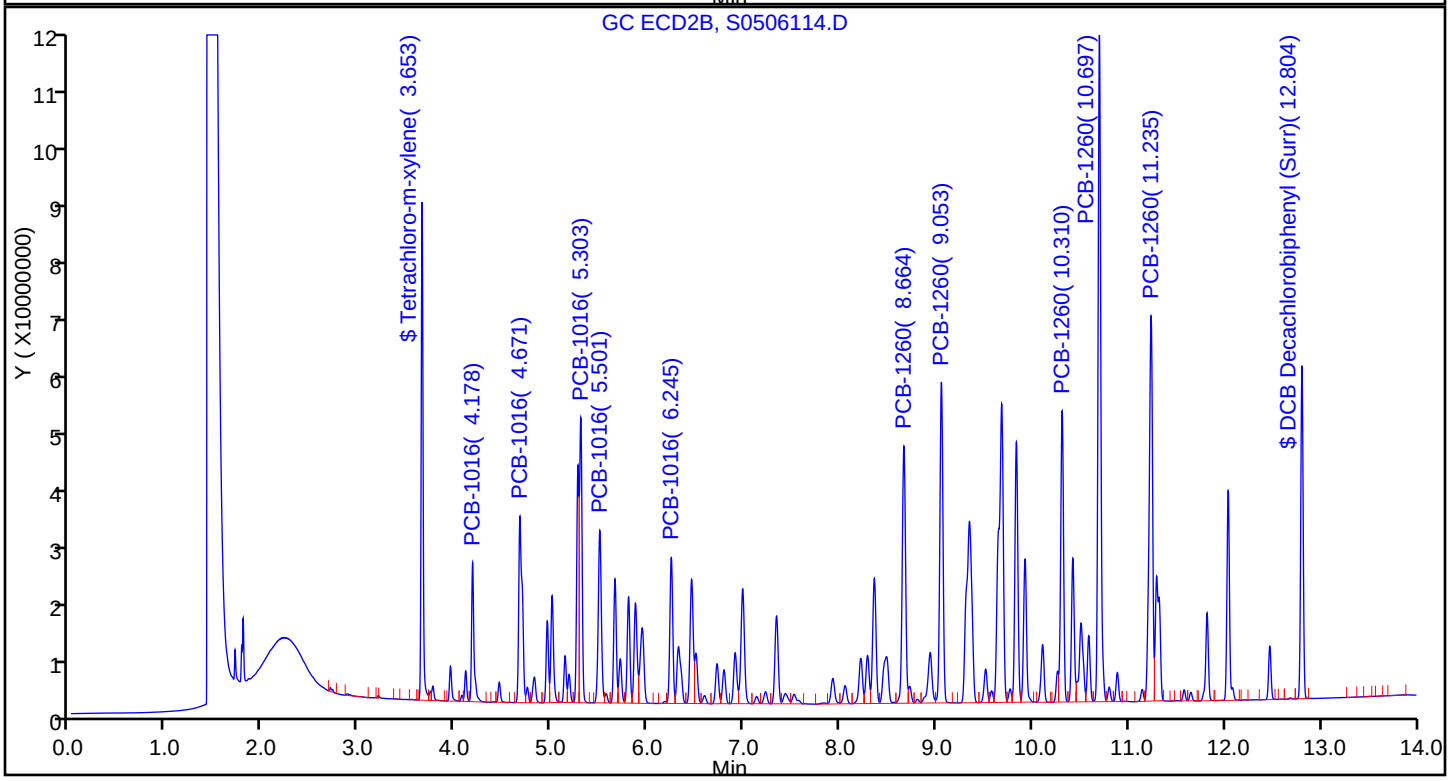
Client ID:

Operator ID: 402331 ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 06-May-2015 16:34:21 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-015
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:32:49 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:30:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							M
1	3.182	3.177	0.005	199586255H	0.2000	0.1921	M
2	3.655	3.650	0.005	158427854H	0.2000	0.1761	
						RPD = 8.67	
3 PCB-1016							M
1	3.491	3.486	0.005	70989522H	4.00	3.65	M
1	3.823	3.820	0.003	96870119H	4.00	3.43	M
1	4.312	4.309	0.003	152079296H	4.00	3.69	M
1	4.462	4.459	0.003	90651200H	4.00	3.67	M
1	4.957	4.954	0.003	73455086H	4.00	3.66	M
		Average of Peak Amounts =				3.62	
2	4.179	4.176	0.003	42823845H	4.00	3.33	
2	4.672	4.669	0.003	57694752H	4.00	3.28	
2	5.304	5.301	0.003	89813235H	4.00	3.49	
2	5.502	5.499	0.003	53664519H	4.00	3.32	
2	6.246	6.244	0.002	46017512H	4.00	3.41	
		Average of Peak Amounts =				3.36	
						RPD = 7.29	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							M
1	6.797	6.795	0.002	122568875H	4.00	3.62	M
1	7.299	7.296	0.003	177155560H	4.00	3.61	
1	8.556	8.554	0.002	122098117H	4.00	3.78	
1	9.127	9.126	0.001	296265798H	4.00	3.72	
1	9.608	9.606	0.002	164250182H	4.00	3.85	
		Average of Peak Amounts =				3.72	
2	8.666	8.663	0.003	81209126H	4.00	3.41	
2	9.055	9.052	0.003	99877883H	4.00	3.36	
2	10.309	10.310	-0.001	93078245H	4.00	3.44	
2	10.697	10.696	0.001	213890901H	4.00	3.55	
2	11.236	11.235	0.001	124251601H	4.00	3.52	
		Average of Peak Amounts =				3.46	
						RPD = 7.22	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.290	11.289	0.001	176189841H	0.2000	0.1908	
2	12.804	12.804	0.000	107709367H	0.2000	0.1792	
						RPD = 6.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL7_00009 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:32:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Injection Date: 06-May-2015 16:34:21 Instrument ID: CHGC10

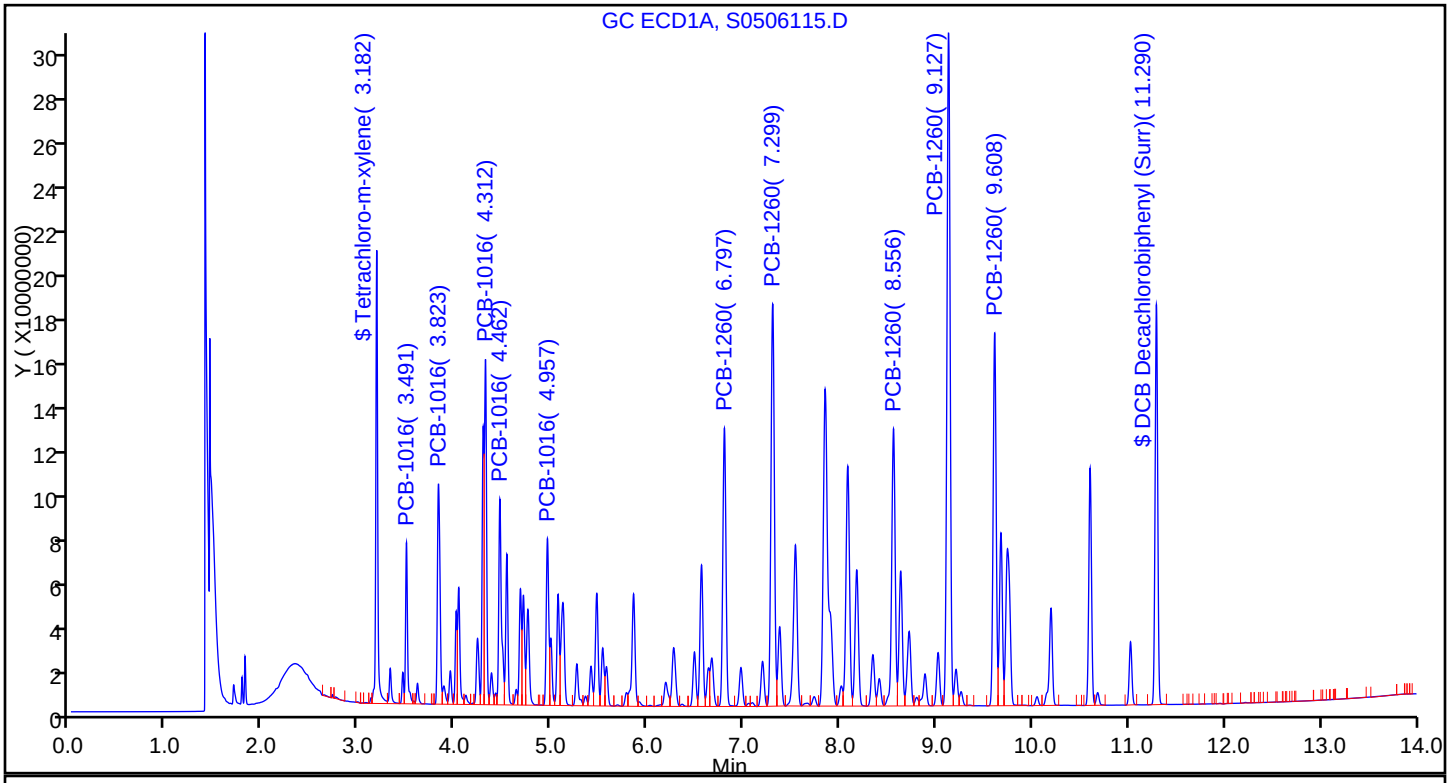
Lims ID: IC

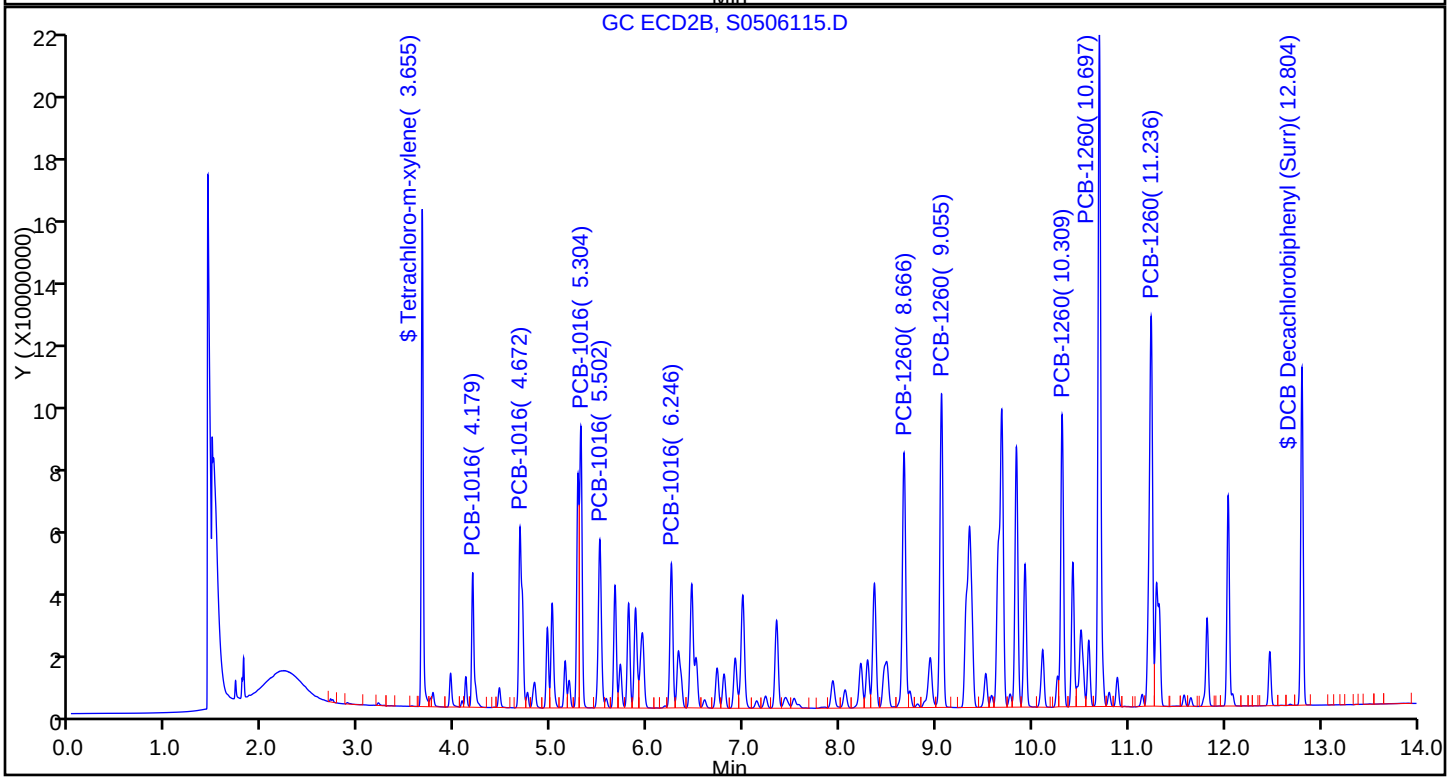
Client ID:

Operator ID: 402331 ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVRT 180-140663/1 Calibration Date: 05/06/2015 06:29

Instrument ID: CHGC10 Calib Start Date: 04/29/2015 07:46

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 04/29/2015 09:39

Lab File ID: S0506001.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	17649373	19257320		0.546	0.500	9.1	20.0
PCB-1016 Peak 2	Ave	26260821	27116802		0.516	0.500	3.3	20.0
PCB-1016 Peak 3	Ave	38041619	40509668		0.532	0.500	6.5	20.0
PCB-1016 Peak 4	Ave	22545499	24198428		0.537	0.500	7.3	20.0
PCB-1016 Peak 5	Ave	19063078	19518706		0.512	0.500	2.4	20.0
PCB-1260 Peak 1	Ave	31917287	33202708		0.520	0.500	4.0	20.0
PCB-1260 Peak 2	Ave	45547603	48305142		0.530	0.500	6.1	20.0
PCB-1260 Peak 3	Ave	29296689	31458308		0.537	0.500	7.4	20.0
PCB-1260 Peak 4	Ave	69773704	78144288		0.560	0.500	12.0	20.0
PCB-1260 Peak 5	Ave	37046299	41924314		0.566	0.500	13.2	20.0
Tetrachloro-m-xylene (Surr)	Ave	1028002119	1154490080		0.0281	0.0250	12.3	20.0
DCB Decachlorobiphenyl (Surr)	Ave	772294469	878420280		0.0284	0.0250	13.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVRT 180-140663/1 Calibration Date: 05/06/2015 06:29

Instrument ID: CHGC10 Calib Start Date: 04/29/2015 07:46

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 04/29/2015 09:39

Lab File ID: S0506001.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.48	3.43	3.53
PCB-1016 Peak 2	3.82	3.77	3.87
PCB-1016 Peak 3	4.30	4.25	4.35
PCB-1016 Peak 4	4.45	4.40	4.50
PCB-1016 Peak 5	4.95	4.90	5.00
PCB-1260 Peak 1	6.79	6.74	6.84
PCB-1260 Peak 2	7.29	7.24	7.34
PCB-1260 Peak 3	8.55	8.50	8.60
PCB-1260 Peak 4	9.12	9.07	9.17
PCB-1260 Peak 5	9.60	9.55	9.65
Tetrachloro-m-xylene (Surr)	3.17	3.12	3.22
DCB Decachlorobiphenyl (Surr)	11.28	11.21	11.35

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506001.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 06-May-2015 06:29:50 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006770-001
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:50 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 06-May-2015 07:22:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.173	3.173	0.000	28862252H	0.0250	0.0281	
2	3.647	3.647	0.000	22709905H	0.0250	0.0289	
						RPD = 2.89	
3 PCB-1016							
1	3.483	3.483	0.000	9628660H	0.5000	0.5456	
1	3.815	3.815	0.000	13558401H	0.5000	0.5163	
1	4.303	4.303	0.000	20254834H	0.5000	0.5324	
1	4.453	4.453	0.000	12099214H	0.5000	0.5367	
1	4.948	4.948	0.000	9759353H	0.5000	0.5120	
		Average of Peak Amounts =				0.5286	
2	4.171	4.171	0.000	6277130H	0.5000	0.6029	
2	4.663	4.663	0.000	8553940H	0.5000	0.5926	
2	5.295	5.295	0.000	12617292H	0.5000	0.6031	
2	5.493	5.493	0.000	7691625H	0.5000	0.5816	
2	6.236	6.236	0.000	6602613H	0.5000	0.5912	
		Average of Peak Amounts =				0.5943	
						RPD = 11.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.788	6.788	0.000	16601354H	0.5000	0.5201	
1	7.289	7.289	0.000	24152571H	0.5000	0.5303	
1	8.546	8.546	0.000	15729154H	0.5000	0.5369	
1	9.119	9.119	0.000	39072144H	0.5000	0.5600	
1	9.599	9.599	0.000	20962157H	0.5000	0.5658	
		Average of Peak Amounts =				0.5426	
2	8.655	8.655	0.000	11796843H	0.5000	0.5994	
2	9.046	9.046	0.000	14220982H	0.5000	0.5927	
2	10.303	10.303	0.000	13083518H	0.5000	0.6099	
2	10.690	10.690	0.000	28804203H	0.5000	0.6123	
2	11.228	11.228	0.000	16732372H	0.5000	0.6275	
		Average of Peak Amounts =				0.6084	
						RPD = 11.43	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.282	11.282	0.000	21960507H	0.0250	0.0284	
2	12.797	12.797	0.000	14049521H	0.0250	0.0313	
						RPD = 9.67	

Reagents:

GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 06-May-2015 11:42:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506001.D

Injection Date: 06-May-2015 06:29:50 Instrument ID: CHGC10

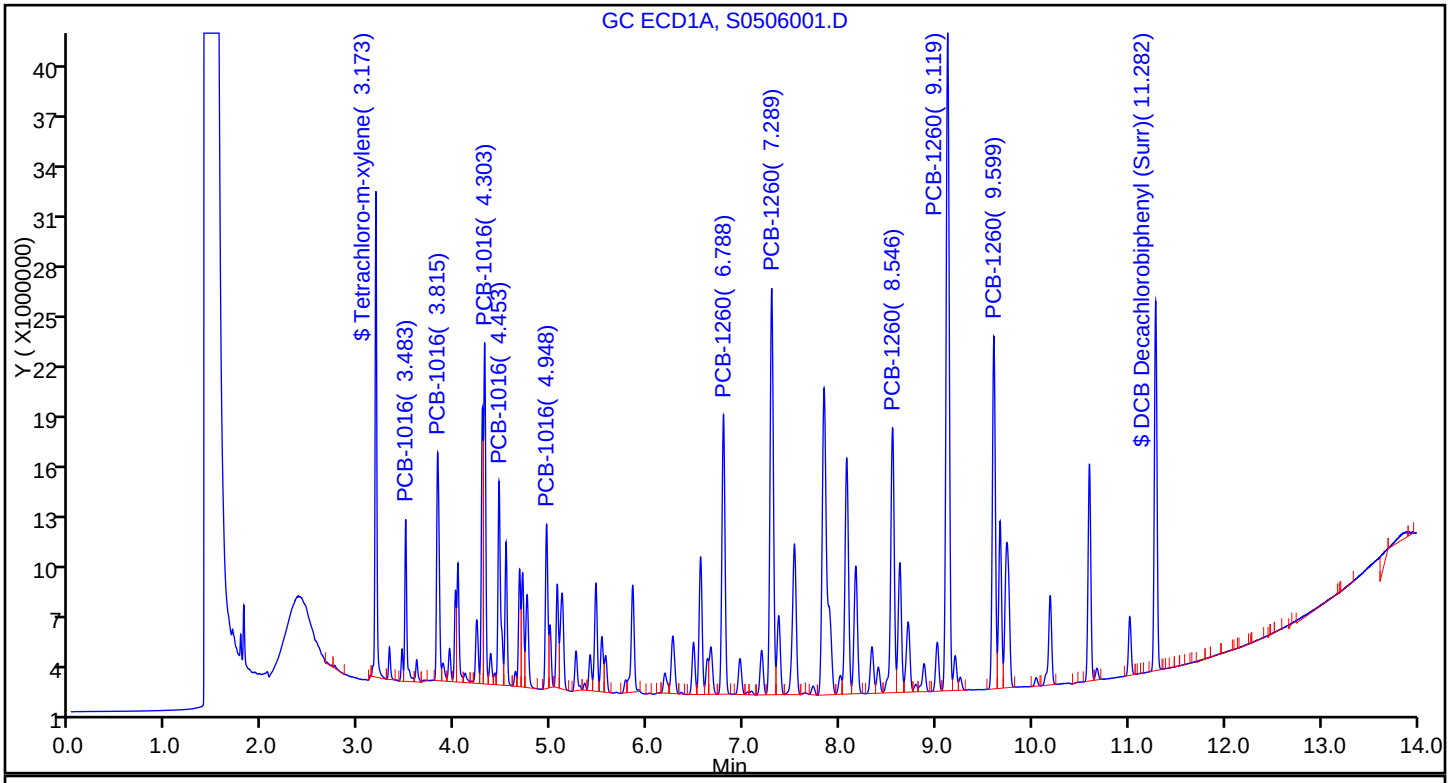
Lims ID: CCVRT

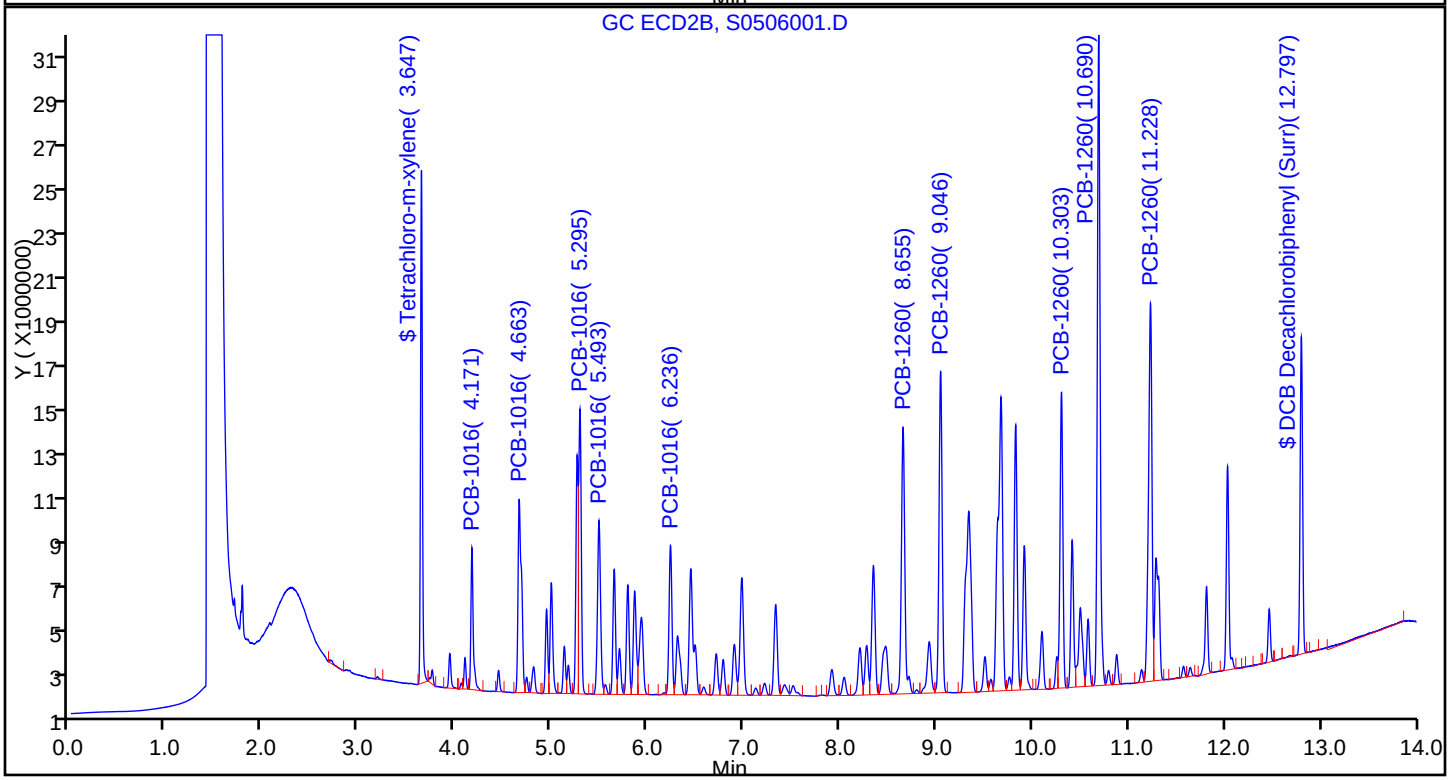
Client ID:

Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVRT 180-140663/1 Calibration Date: 05/06/2015 06:29

Instrument ID: CHGC10 Calib Start Date: 04/29/2015 07:46

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 04/29/2015 09:39

Lab File ID: S0506001.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	10411556	12554260		0.603	0.500	20.6*	20.0
PCB-1016 Peak 2	Ave	14435536	17107880		0.593	0.500	18.5	20.0
PCB-1016 Peak 3	Ave	20919225	25234584		0.603	0.500	20.6*	20.0
PCB-1016 Peak 4	Ave	13226011	15383250		0.582	0.500	16.3	20.0
PCB-1016 Peak 5	Ave	11167825	13205226		0.591	0.500	18.2	20.0
PCB-1260 Peak 1	Ave	19679746	23593686		0.599	0.500	19.9	20.0
PCB-1260 Peak 2	Ave	23992367	28441964		0.593	0.500	18.5	20.0
PCB-1260 Peak 3	Ave	21451983	26167036		0.610	0.500	22.0*	20.0
PCB-1260 Peak 4	Ave	47039822	57608406		0.612	0.500	22.5*	20.0
PCB-1260 Peak 5	Ave	26664371	33464744		0.628	0.500	25.5*	20.0
Tetrachloro-m-xylene (Surr)	Ave	785865926	908396200		0.0289	0.0250	15.6	20.0
DCB Decachlorobiphenyl (Surr)	Ave	448528580	561980840		0.0313	0.0250	25.3*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCVRT 180-140663/1 Calibration Date: 05/06/2015 06:29

Instrument ID: CHGC10 Calib Start Date: 04/29/2015 07:46

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 04/29/2015 09:39

Lab File ID: S0506001.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.17	4.12	4.22
PCB-1016 Peak 2	4.66	4.61	4.71
PCB-1016 Peak 3	5.30	5.25	5.35
PCB-1016 Peak 4	5.49	5.44	5.54
PCB-1016 Peak 5	6.24	6.19	6.29
PCB-1260 Peak 1	8.66	8.61	8.71
PCB-1260 Peak 2	9.05	9.00	9.10
PCB-1260 Peak 3	10.30	10.25	10.35
PCB-1260 Peak 4	10.69	10.64	10.74
PCB-1260 Peak 5	11.23	11.18	11.28
Tetrachloro-m-xylene (Surr)	3.65	3.60	3.70
DCB Decachlorobiphenyl (Surr)	12.80	12.73	12.87

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506001.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 06-May-2015 06:29:50 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006770-001
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:50 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 06-May-2015 07:22:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.173	3.173	0.000	28862252H	0.0250	0.0281	
2	3.647	3.647	0.000	22709905H	0.0250	0.0289	
						RPD = 2.89	
3 PCB-1016							
1	3.483	3.483	0.000	9628660H	0.5000	0.5456	
1	3.815	3.815	0.000	13558401H	0.5000	0.5163	
1	4.303	4.303	0.000	20254834H	0.5000	0.5324	
1	4.453	4.453	0.000	12099214H	0.5000	0.5367	
1	4.948	4.948	0.000	9759353H	0.5000	0.5120	
		Average of Peak Amounts =				0.5286	
2	4.171	4.171	0.000	6277130H	0.5000	0.6029	
2	4.663	4.663	0.000	8553940H	0.5000	0.5926	
2	5.295	5.295	0.000	12617292H	0.5000	0.6031	
2	5.493	5.493	0.000	7691625H	0.5000	0.5816	
2	6.236	6.236	0.000	6602613H	0.5000	0.5912	
		Average of Peak Amounts =				0.5943	
						RPD = 11.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.788	6.788	0.000	16601354H	0.5000	0.5201	
1	7.289	7.289	0.000	24152571H	0.5000	0.5303	
1	8.546	8.546	0.000	15729154H	0.5000	0.5369	
1	9.119	9.119	0.000	39072144H	0.5000	0.5600	
1	9.599	9.599	0.000	20962157H	0.5000	0.5658	
		Average of Peak Amounts =				0.5426	
2	8.655	8.655	0.000	11796843H	0.5000	0.5994	
2	9.046	9.046	0.000	14220982H	0.5000	0.5927	
2	10.303	10.303	0.000	13083518H	0.5000	0.6099	
2	10.690	10.690	0.000	28804203H	0.5000	0.6123	
2	11.228	11.228	0.000	16732372H	0.5000	0.6275	
		Average of Peak Amounts =				0.6084	
						RPD = 11.43	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.282	11.282	0.000	21960507H	0.0250	0.0284	
2	12.797	12.797	0.000	14049521H	0.0250	0.0313	
						RPD = 9.67	

Reagents:

GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 06-May-2015 11:42:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506001.D

Injection Date: 06-May-2015 06:29:50 Instrument ID: CHGC10

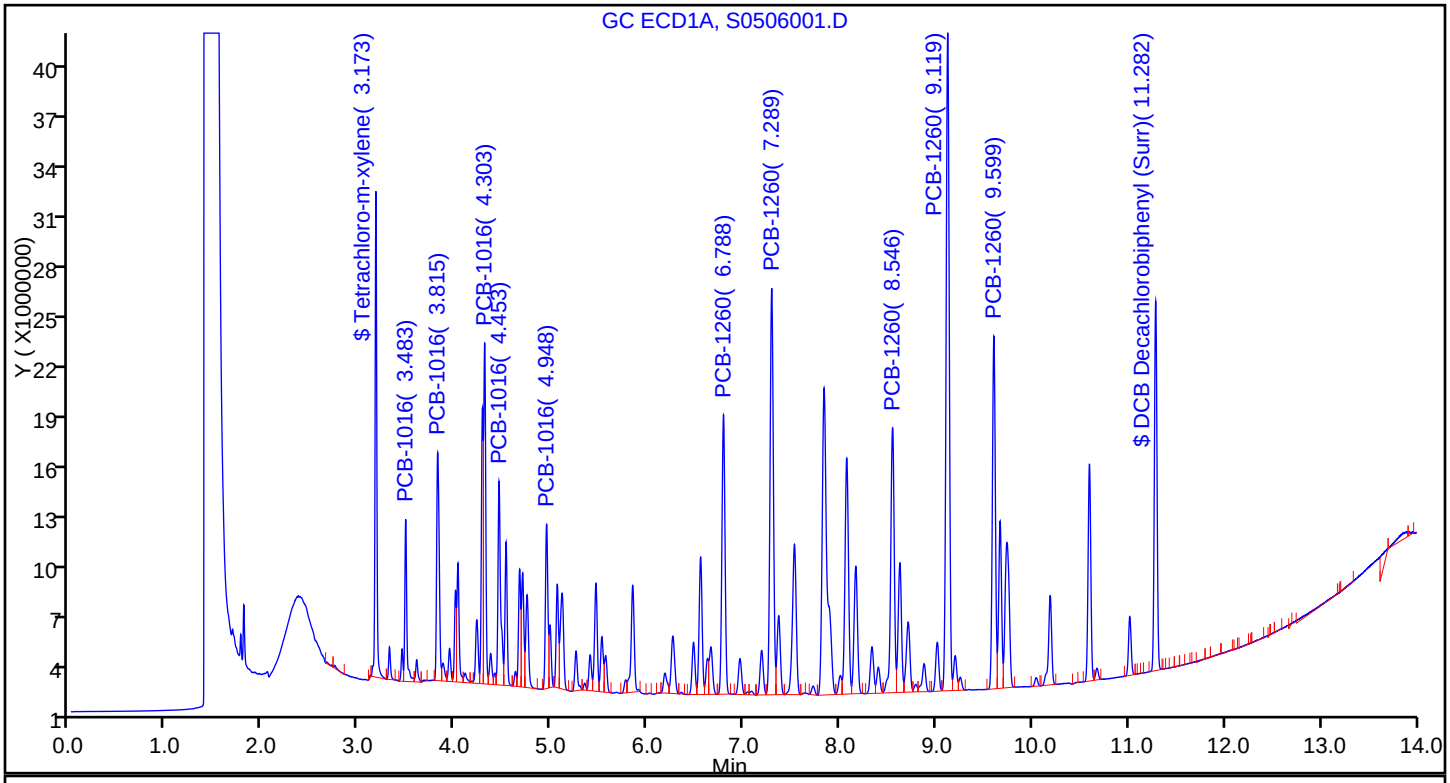
Lims ID: CCVRT

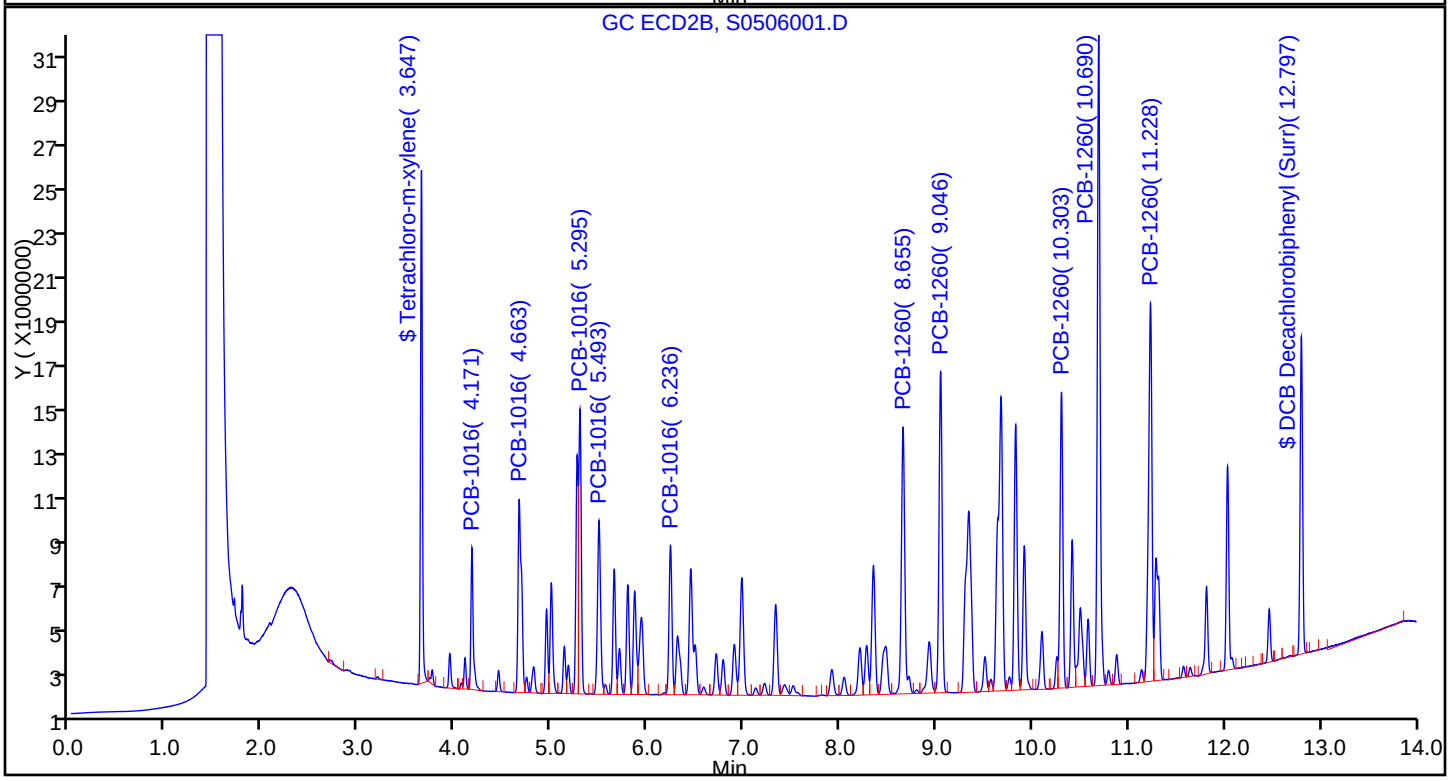
Client ID:

Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140663/16 Calibration Date: 05/06/2015 11:11

Instrument ID: CHGC10 Calib Start Date: 04/29/2015 07:46

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 04/29/2015 09:39

Lab File ID: S0506016.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	17649373	18327056		0.519	0.500	3.8	20.0
PCB-1016 Peak 2	Ave	26260821	26160652		0.498	0.500	-0.4	20.0
PCB-1016 Peak 3	Ave	38041619	39191348		0.515	0.500	3.0	20.0
PCB-1016 Peak 4	Ave	22545499	23534130		0.522	0.500	4.4	20.0
PCB-1016 Peak 5	Ave	19063078	19000762		0.498	0.500	-0.3	20.0
PCB-1260 Peak 1	Ave	31917287	31674268		0.496	0.500	-0.8	20.0
PCB-1260 Peak 2	Ave	45547603	46208088		0.507	0.500	1.5	20.0
PCB-1260 Peak 3	Ave	29296689	31161902		0.532	0.500	6.4	20.0
PCB-1260 Peak 4	Ave	69773704	76748950		0.550	0.500	10.0	20.0
PCB-1260 Peak 5	Ave	37046299	41173724		0.556	0.500	11.1	20.0
Tetrachloro-m-xylene (Surr)	Ave	1028002119	998594800		0.0243	0.0250	-2.9	20.0
DCB Decachlorobiphenyl (Surr)	Ave	772294469	866291400		0.0280	0.0250	12.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140663/16 Calibration Date: 05/06/2015 11:11

Instrument ID: CHGC10 Calib Start Date: 04/29/2015 07:46

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 04/29/2015 09:39

Lab File ID: S0506016.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.49	3.44	3.54
PCB-1016 Peak 2	3.82	3.77	3.87
PCB-1016 Peak 3	4.31	4.26	4.36
PCB-1016 Peak 4	4.46	4.41	4.51
PCB-1016 Peak 5	4.95	4.90	5.00
PCB-1260 Peak 1	6.79	6.74	6.84
PCB-1260 Peak 2	7.29	7.24	7.34
PCB-1260 Peak 3	8.55	8.50	8.60
PCB-1260 Peak 4	9.12	9.07	9.17
PCB-1260 Peak 5	9.60	9.55	9.65
Tetrachloro-m-xylene (Surr)	3.18	3.13	3.23
DCB Decachlorobiphenyl (Surr)	11.29	11.22	11.36

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506016.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 06-May-2015 11:11:08 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-016
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.175	3.175	0.000	24964870H	0.0250	0.0243	
2	3.649	3.649	0.000	21282064H	0.0250	0.0271	
						RPD = 10.89	
3 PCB-1016							
1	3.485	3.485	0.000	9163528H	0.5000	0.5192	
1	3.819	3.819	0.000	13080326H	0.5000	0.4981	
1	4.308	4.308	0.000	19595674H	0.5000	0.5151	
1	4.457	4.457	0.000	11767065H	0.5000	0.5219	
1	4.952	4.952	0.000	9500381H	0.5000	0.4984	
		Average of Peak Amounts =				0.5105	
2	4.174	4.174	0.000	6108519H	0.5000	0.5867	
2	4.667	4.667	0.000	8263536H	0.5000	0.5724	
2	5.299	5.299	0.000	12652434H	0.5000	0.6048	
2	5.497	5.497	0.000	7575865H	0.5000	0.5728	
2	6.240	6.240	0.000	6449417H	0.5000	0.5775	
		Average of Peak Amounts =				0.5829	
						RPD = 13.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.792	6.792	0.000	15837134H	0.5000	0.4962	
1	7.293	7.293	0.000	23104044H	0.5000	0.5073	
1	8.550	8.550	0.000	15580951H	0.5000	0.5318	
1	9.123	9.123	0.000	38374475H	0.5000	0.5500	
1	9.603	9.603	0.000	20586862H	0.5000	0.5557	
		Average of Peak Amounts =				0.5282	
2	8.660	8.660	0.000	11349515H	0.5000	0.5767	
2	9.049	9.049	0.000	13881030H	0.5000	0.5786	
2	10.305	10.305	0.000	12770165H	0.5000	0.5953	
2	10.693	10.693	0.000	28404048H	0.5000	0.6038	
2	11.231	11.231	0.000	16460776H	0.5000	0.6173	
		Average of Peak Amounts =				0.5943	
						RPD = 11.79	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.286	11.286	0.000	21657285H	0.0250	0.0280	
2	12.800	12.800	0.000	14902077H	0.0250	0.0332	
						RPD = 16.91	

Reagents:

GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 06-May-2015 11:42:22 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506016.D

Injection Date: 06-May-2015 11:11:08 Instrument ID: CHGC10

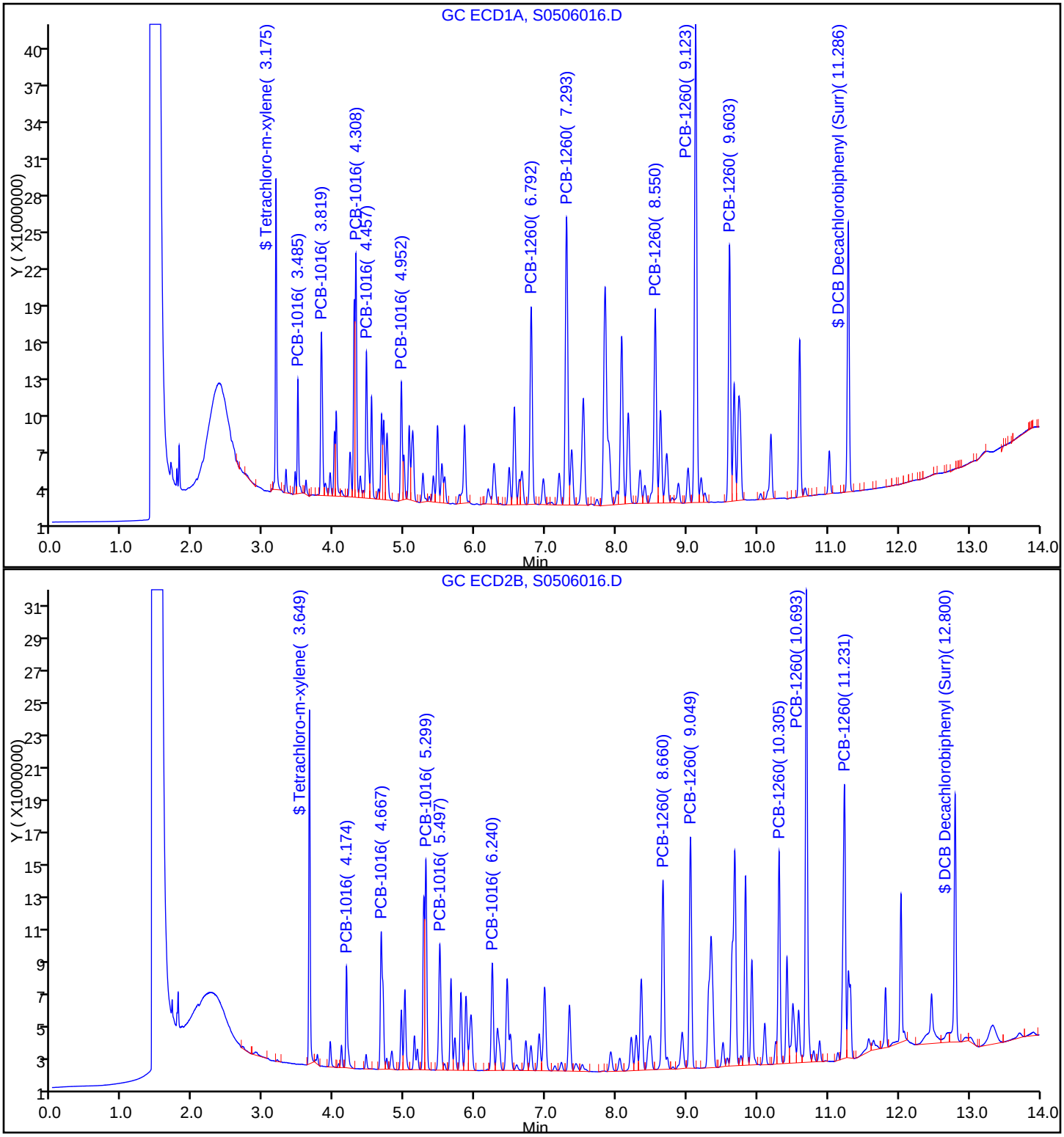
Lims ID: CCV

Client ID:

Operator ID: 402331 ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140663/16 Calibration Date: 05/06/2015 11:11

Instrument ID: CHGC10 Calib Start Date: 04/29/2015 07:46

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 04/29/2015 09:39

Lab File ID: S0506016.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	10411556	12217038		0.587	0.500	17.3	20.0
PCB-1016 Peak 2	Ave	14435536	16527072		0.572	0.500	14.5	20.0
PCB-1016 Peak 3	Ave	20919225	25304868		0.605	0.500	21.0*	20.0
PCB-1016 Peak 4	Ave	13226011	15151730		0.573	0.500	14.6	20.0
PCB-1016 Peak 5	Ave	11167825	12898834		0.577	0.500	15.5	20.0
PCB-1260 Peak 1	Ave	19679746	22699030		0.577	0.500	15.3	20.0
PCB-1260 Peak 2	Ave	23992367	27762060		0.579	0.500	15.7	20.0
PCB-1260 Peak 3	Ave	21451983	25540330		0.595	0.500	19.1	20.0
PCB-1260 Peak 4	Ave	47039822	56808096		0.604	0.500	20.8*	20.0
PCB-1260 Peak 5	Ave	26664371	32921552		0.617	0.500	23.5*	20.0
Tetrachloro-m-xylene (Surr)	Ave	785865926	851282560		0.0271	0.0250	8.3	20.0
DCB Decachlorobiphenyl (Surr)	Ave	448528580	596083080		0.0332	0.0250	32.9*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140663/16 Calibration Date: 05/06/2015 11:11

Instrument ID: CHGC10 Calib Start Date: 04/29/2015 07:46

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 04/29/2015 09:39

Lab File ID: S0506016.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.17	4.12	4.22
PCB-1016 Peak 2	4.67	4.62	4.72
PCB-1016 Peak 3	5.30	5.25	5.35
PCB-1016 Peak 4	5.50	5.45	5.55
PCB-1016 Peak 5	6.24	6.19	6.29
PCB-1260 Peak 1	8.66	8.61	8.71
PCB-1260 Peak 2	9.05	9.00	9.10
PCB-1260 Peak 3	10.31	10.26	10.36
PCB-1260 Peak 4	10.69	10.64	10.74
PCB-1260 Peak 5	11.23	11.18	11.28
Tetrachloro-m-xylene (Surr)	3.65	3.60	3.70
DCB Decachlorobiphenyl (Surr)	12.80	12.73	12.87

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506016.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 06-May-2015 11:11:08 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-016
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.175	3.175	0.000	24964870H	0.0250	0.0243	
2	3.649	3.649	0.000	21282064H	0.0250	0.0271	
						RPD = 10.89	
3 PCB-1016							
1	3.485	3.485	0.000	9163528H	0.5000	0.5192	
1	3.819	3.819	0.000	13080326H	0.5000	0.4981	
1	4.308	4.308	0.000	19595674H	0.5000	0.5151	
1	4.457	4.457	0.000	11767065H	0.5000	0.5219	
1	4.952	4.952	0.000	9500381H	0.5000	0.4984	
		Average of Peak Amounts =				0.5105	
2	4.174	4.174	0.000	6108519H	0.5000	0.5867	
2	4.667	4.667	0.000	8263536H	0.5000	0.5724	
2	5.299	5.299	0.000	12652434H	0.5000	0.6048	
2	5.497	5.497	0.000	7575865H	0.5000	0.5728	
2	6.240	6.240	0.000	6449417H	0.5000	0.5775	
		Average of Peak Amounts =				0.5829	
						RPD = 13.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.792	6.792	0.000	15837134H	0.5000	0.4962	
1	7.293	7.293	0.000	23104044H	0.5000	0.5073	
1	8.550	8.550	0.000	15580951H	0.5000	0.5318	
1	9.123	9.123	0.000	38374475H	0.5000	0.5500	
1	9.603	9.603	0.000	20586862H	0.5000	0.5557	
		Average of Peak Amounts =				0.5282	
2	8.660	8.660	0.000	11349515H	0.5000	0.5767	
2	9.049	9.049	0.000	13881030H	0.5000	0.5786	
2	10.305	10.305	0.000	12770165H	0.5000	0.5953	
2	10.693	10.693	0.000	28404048H	0.5000	0.6038	
2	11.231	11.231	0.000	16460776H	0.5000	0.6173	
		Average of Peak Amounts =				0.5943	
						RPD = 11.79	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.286	11.286	0.000	21657285H	0.0250	0.0280	
2	12.800	12.800	0.000	14902077H	0.0250	0.0332	
						RPD = 16.91	

Reagents:

GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 06-May-2015 11:42:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506016.D

Injection Date: 06-May-2015 11:11:08 Instrument ID: CHGC10

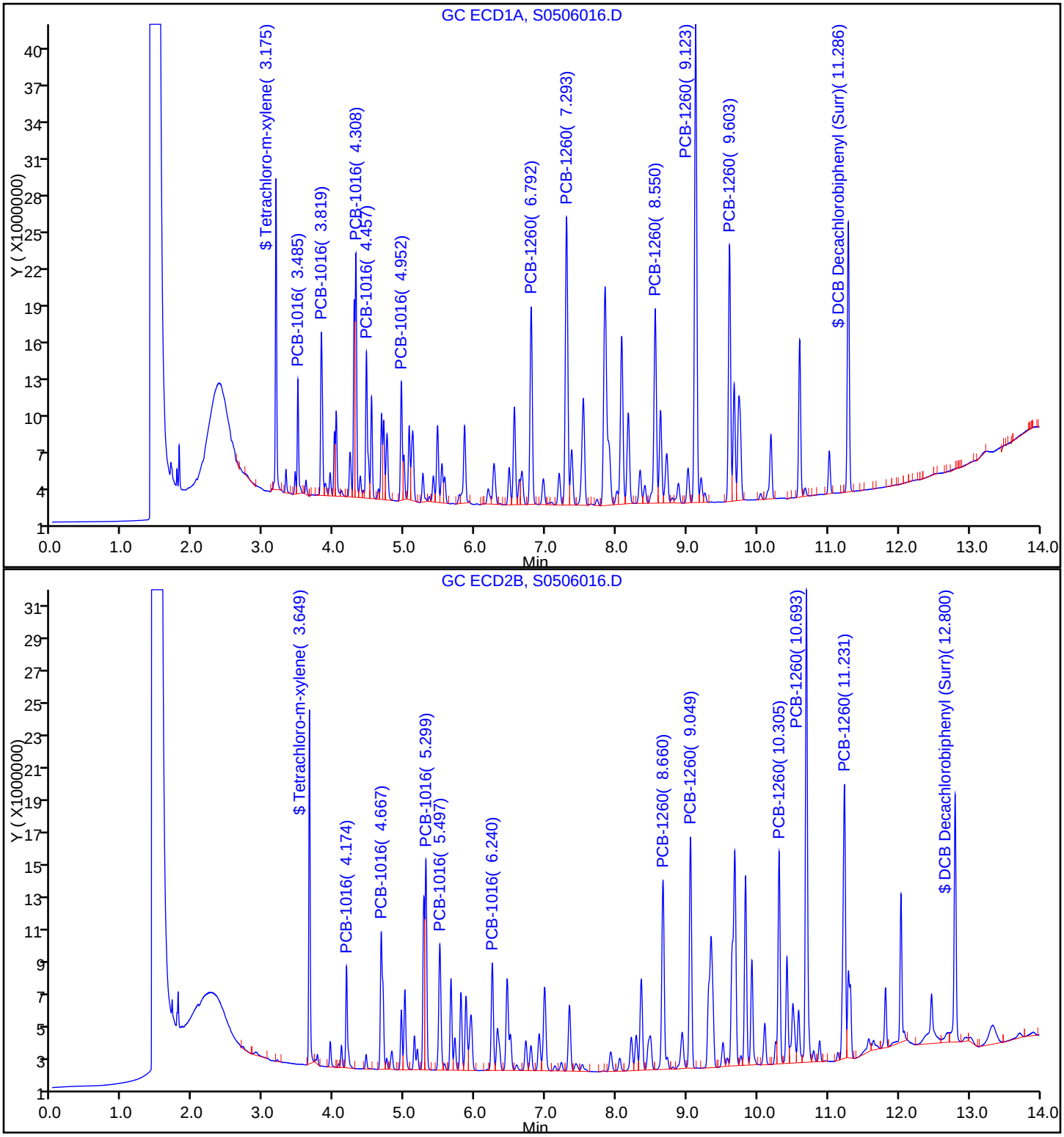
Lims ID: CCV

Client ID:

Operator ID: 402331 ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/16 Calibration Date: 05/06/2015 16:53

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 12:11

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 13:26

Lab File ID: S0506116.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 3	Ave	6579297	6816608		0.518	0.500	3.6	20.0
PCB-1221 Peak 1	Ave	11282205	12865388		0.570	0.500	14.0	20.0
PCB-1221 Peak 2	Ave	25752636	29557682		0.574	0.500	14.8	20.0
PCB-1254 Peak 1	Ave	25616026	28960748		0.565	0.500	13.1	20.0
PCB-1254 Peak 2	Ave	32889636	37122970		0.564	0.500	12.9	20.0
PCB-1254 Peak 3	Ave	44562058	48201728		0.541	0.500	8.2	20.0
PCB-1254 Peak 4	Ave	28479526	32886178		0.577	0.500	15.5	20.0
PCB-1254 Peak 5	Ave	30814967	37262110		0.605	0.500	20.9*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/16 Calibration Date: 05/06/2015 16:53

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 12:11

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 13:26

Lab File ID: S0506116.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 3	2.75	2.69	2.79
PCB-1221 Peak 1	3.32	3.27	3.37
PCB-1221 Peak 2	3.49	3.44	3.54
PCB-1254 Peak 1	5.47	5.40	5.54
PCB-1254 Peak 2	5.85	5.78	5.92
PCB-1254 Peak 3	6.49	6.41	6.55
PCB-1254 Peak 4	7.30	7.23	7.37
PCB-1254 Peak 5	7.85	7.77	7.91

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506116.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-May-2015 16:53:10 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-016
Operator ID: 402331 Instrument ID: CHGC10
Sublist:

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:36:29 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.319	3.316	0.003	6432694H	0.5000	0.5702	
1	3.487	3.485	0.002	14778841H	0.5000	0.5739	
1	2.746	2.744	0.002	3408304H	0.5000	0.5180	
		Average of Peak Amounts =				0.5540	
2	3.191	3.189	0.002	3178591H	0.5000	0.4934	
2	3.947	3.945	0.002	4372896H	0.5000	0.5267	
2	4.177	4.175	0.002	8576913H	0.5000	0.5176	
		Average of Peak Amounts =				0.5126	
						RPD = 7.78	
7 PCB-1254							
1	5.469	5.466	0.003	14480374H	0.5000	0.5653	
1	5.851	5.849	0.002	18561485H	0.5000	0.5644	
1	6.485	6.482	0.003	24100864H	0.5000	0.5408	
1	7.300	7.296	0.004	16443089H	0.5000	0.5774	
1	7.848	7.842	0.006	18631055H	0.5000	0.6046	
		Average of Peak Amounts =				0.5705	
2	6.986	6.982	0.004	9766831H	0.5000	0.4996	
2	7.341	7.337	0.004	10782570H	0.5000	0.5072	
2	8.288	8.283	0.005	15205463H	0.5000	0.5030	
2	9.358	9.355	0.003	9274919H	0.5000	0.5195	
2	9.683	9.681	0.002	14430446H	0.5000	0.5346	
		Average of Peak Amounts =				0.5128	
						RPD = 10.65	

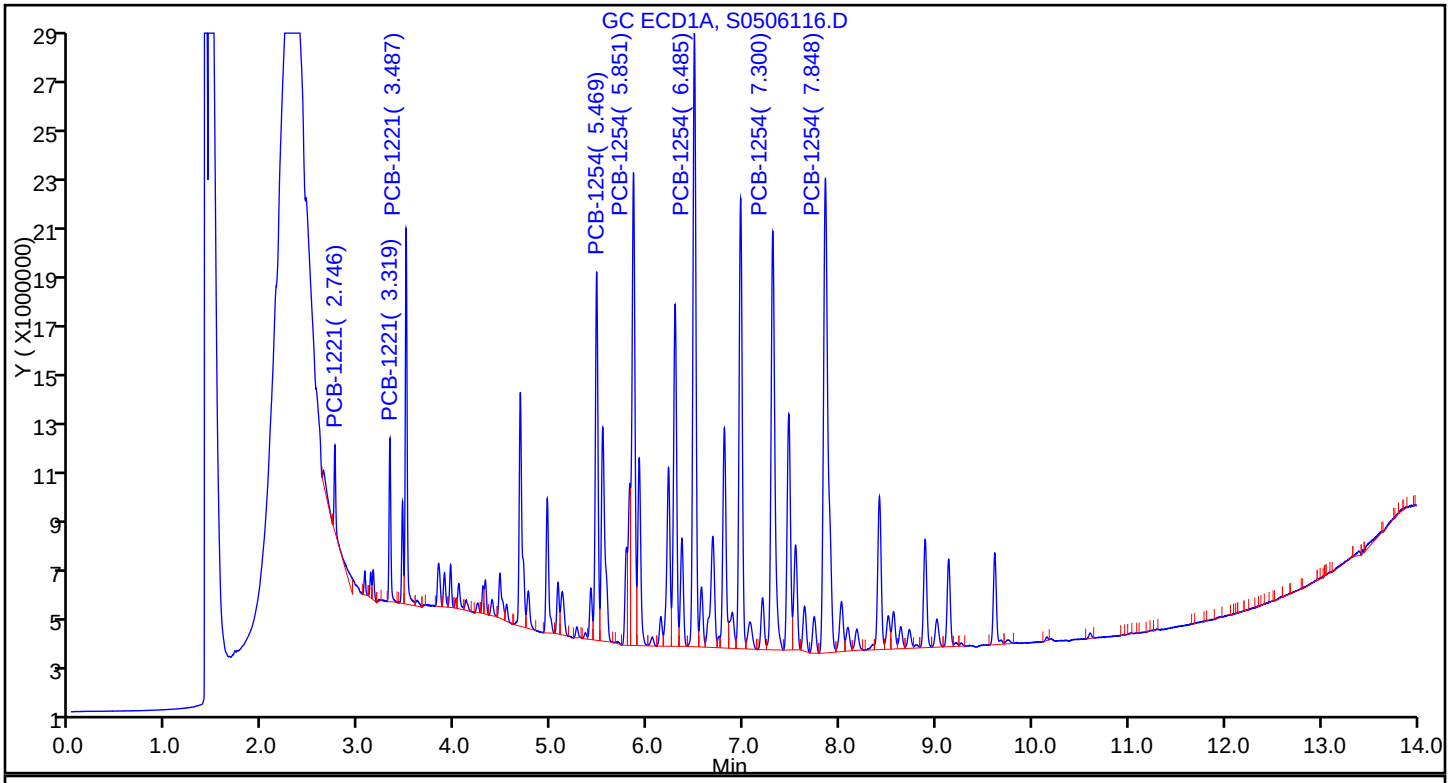
Reagents:

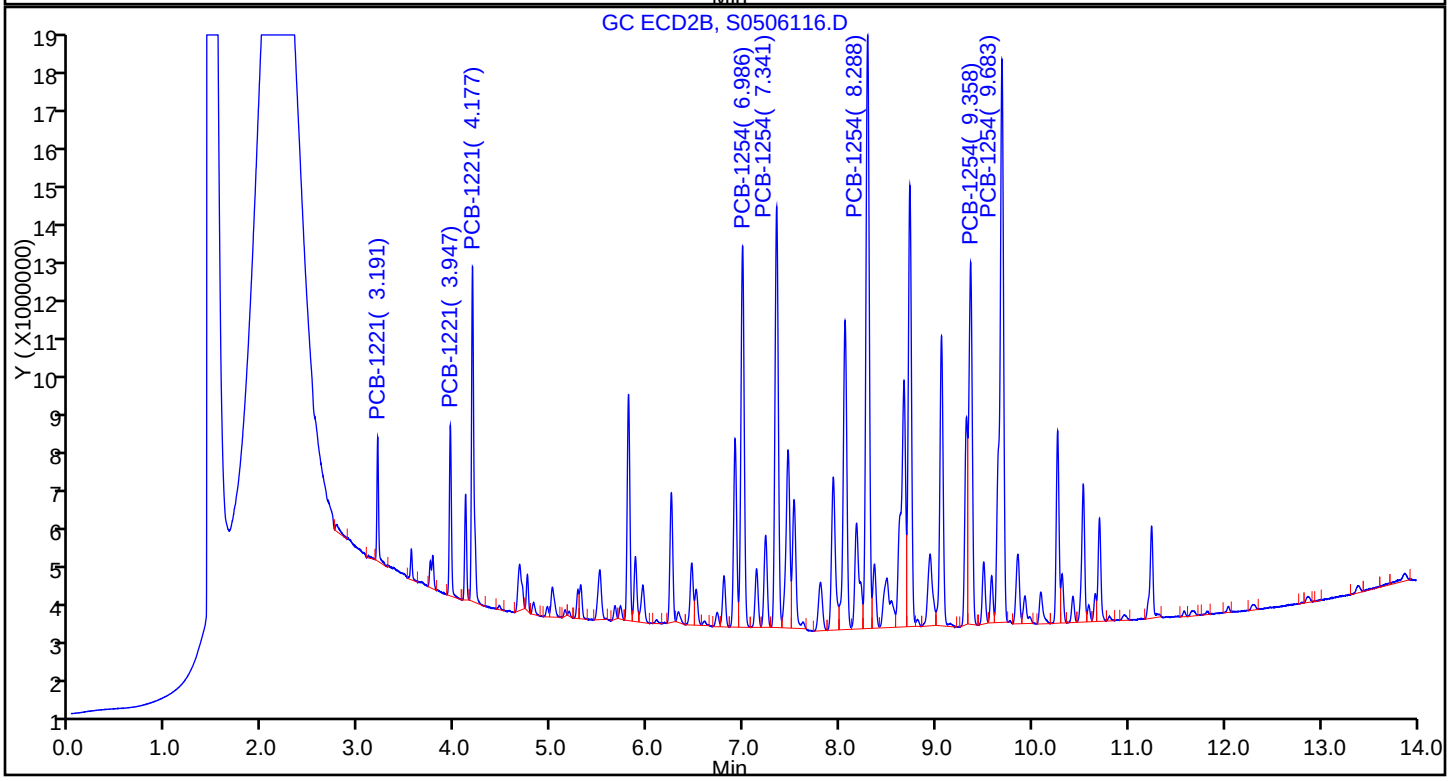
GCAR2154ICV_00012 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:36:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506116.D				
Injection Date:	06-May-2015 16:53:10	Instrument ID:	CHGC10		
Lims ID:	ICV				
Client ID:					
Operator ID:	402331	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/16 Calibration Date: 05/06/2015 16:53

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 12:11

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 13:26

Lab File ID: S0506116.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	6442197	6357182		0.493	0.500	-1.3	20.0
PCB-1221 Peak 2	Ave	8302871	8745792		0.527	0.500	5.3	20.0
PCB-1221 Peak 3	Ave	16571016	17153826		0.518	0.500	3.5	20.0
PCB-1254 Peak 1	Ave	19548396	19533662		0.500	0.500	-0.0	20.0
PCB-1254 Peak 2	Ave	21258112	21565140		0.507	0.500	1.4	20.0
PCB-1254 Peak 3	Ave	30228013	30410926		0.503	0.500	0.6	20.0
PCB-1254 Peak 4	Ave	17854454	18549838		0.519	0.500	3.9	20.0
PCB-1254 Peak 5	Ave	26994243	28860892		0.535	0.500	6.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/16 Calibration Date: 05/06/2015 16:53

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 12:11

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 13:26

Lab File ID: S0506116.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	3.19	3.14	3.24
PCB-1221 Peak 2	3.95	3.90	4.00
PCB-1221 Peak 3	4.18	4.13	4.23
PCB-1254 Peak 1	6.99	6.91	7.05
PCB-1254 Peak 2	7.34	7.27	7.41
PCB-1254 Peak 3	8.29	8.21	8.35
PCB-1254 Peak 4	9.36	9.29	9.43
PCB-1254 Peak 5	9.68	9.61	9.75

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506116.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-May-2015 16:53:10 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-016
Operator ID: 402331 Instrument ID: CHGC10
Sublist:

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:36:29 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
1 PCB-1221							
1	3.319	3.316	0.003	6432694H	0.5000	0.5702	
1	3.487	3.485	0.002	14778841H	0.5000	0.5739	
1	2.746	2.744	0.002	3408304H	0.5000	0.5180	
		Average of Peak Amounts =				0.5540	
2	3.191	3.189	0.002	3178591H	0.5000	0.4934	
2	3.947	3.945	0.002	4372896H	0.5000	0.5267	
2	4.177	4.175	0.002	8576913H	0.5000	0.5176	
		Average of Peak Amounts =				0.5126	
						RPD = 7.78	
7 PCB-1254							
1	5.469	5.466	0.003	14480374H	0.5000	0.5653	
1	5.851	5.849	0.002	18561485H	0.5000	0.5644	
1	6.485	6.482	0.003	24100864H	0.5000	0.5408	
1	7.300	7.296	0.004	16443089H	0.5000	0.5774	
1	7.848	7.842	0.006	18631055H	0.5000	0.6046	
		Average of Peak Amounts =				0.5705	
2	6.986	6.982	0.004	9766831H	0.5000	0.4996	
2	7.341	7.337	0.004	10782570H	0.5000	0.5072	
2	8.288	8.283	0.005	15205463H	0.5000	0.5030	
2	9.358	9.355	0.003	9274919H	0.5000	0.5195	
2	9.683	9.681	0.002	14430446H	0.5000	0.5346	
		Average of Peak Amounts =				0.5128	
						RPD = 10.65	

Reagents:

GCAR2154ICV_00012 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:36:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506116.D

Injection Date: 06-May-2015 16:53:10 Instrument ID: CHGC10

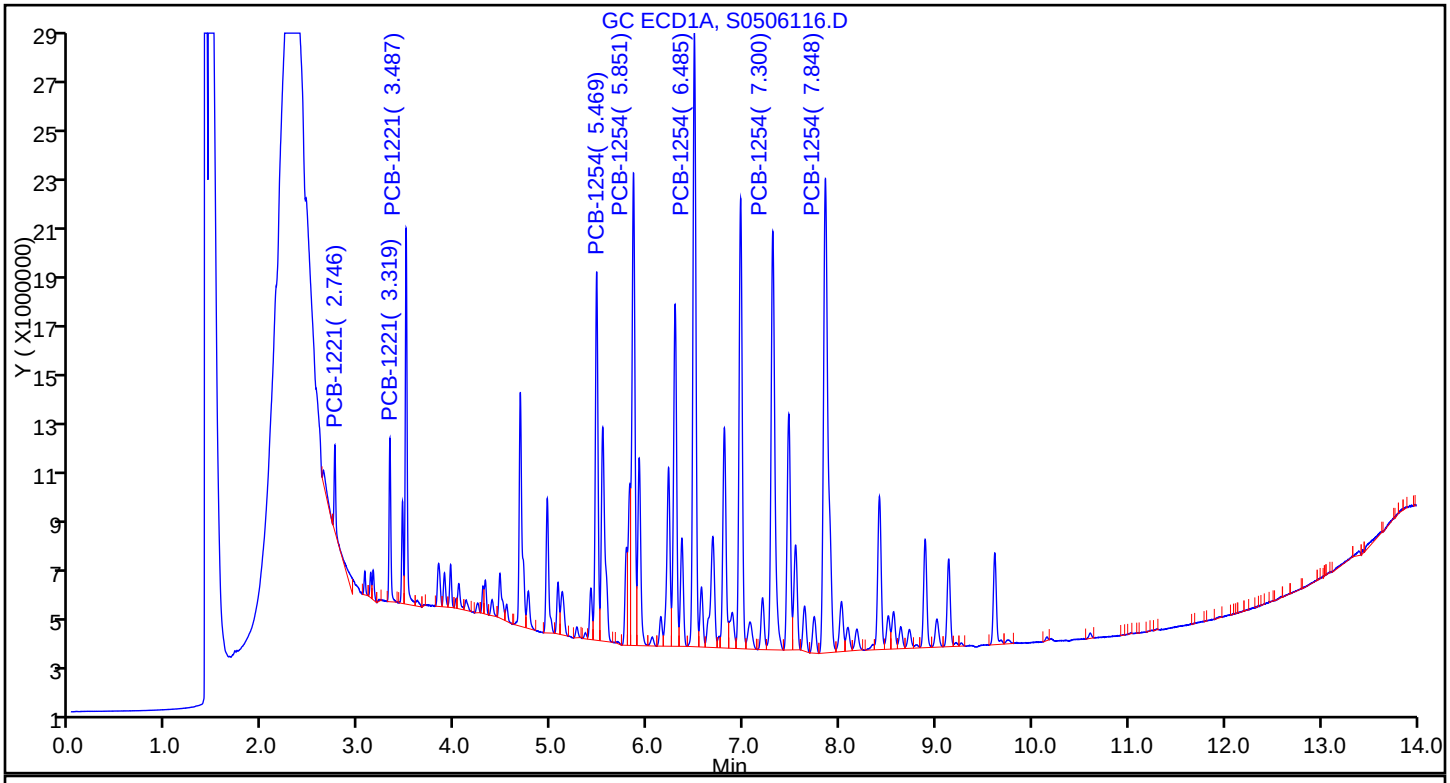
Lims ID: ICV

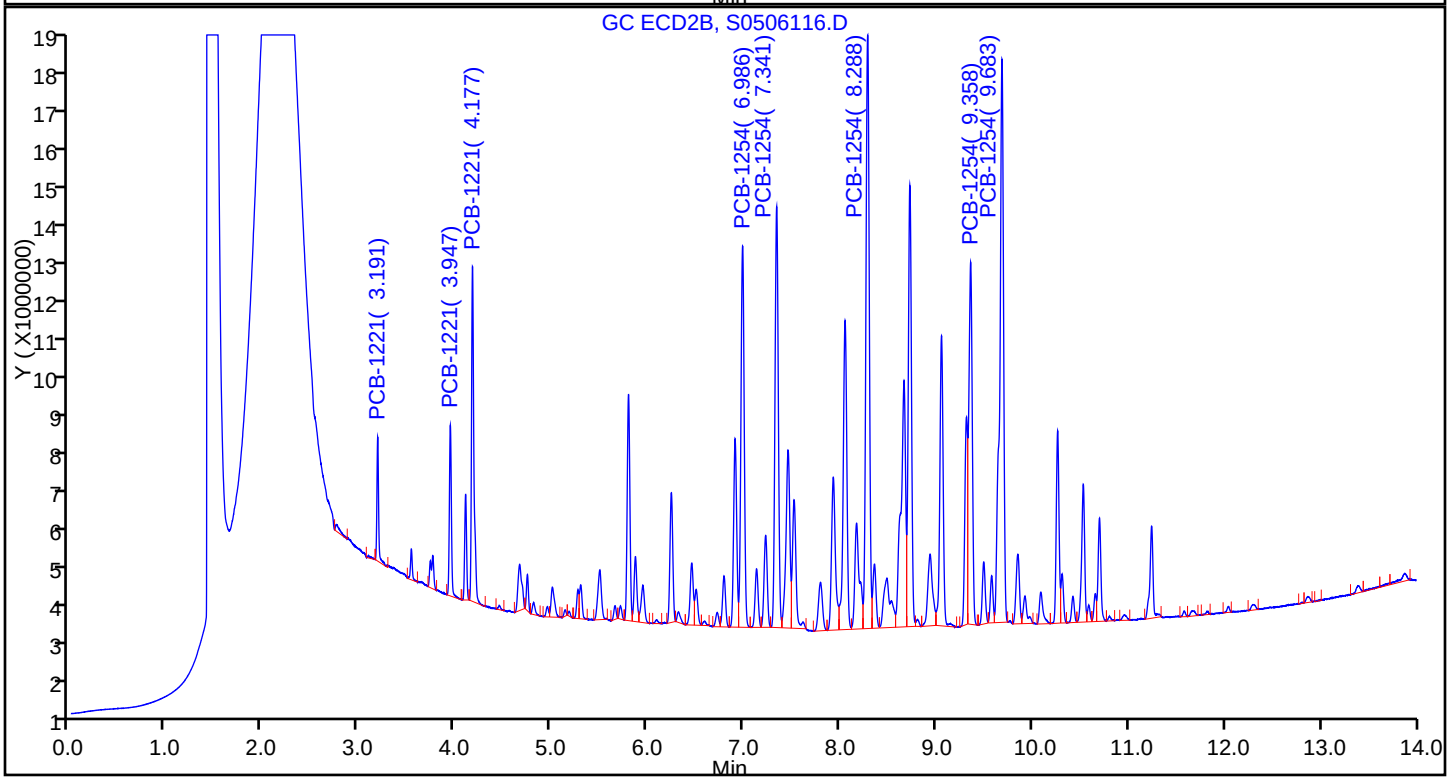
Client ID:

Operator ID: 402331 ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/17 Calibration Date: 05/06/2015 17:12

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 13:45

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 13:45

Lab File ID: S0506117.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	8255678	8108058		0.491	0.500	-1.8	20.0
PCB-1232 Peak 2	Ave	23570130	23813666		0.505	0.500	1.0	20.0
PCB-1232 Peak 3	Ave	13489122	14297810		0.530	0.500	6.0	20.0
PCB-1232 Peak 4	Ave	19471420	20406630		0.524	0.500	4.8	20.0
PCB-1232 Peak 5	Ave	12384810	12692220		0.512	0.500	2.5	20.0
PCB-1262 Peak 1	Ave	27250066	28696004		0.527	0.500	5.3	20.0
PCB-1262 Peak 2	Ave	36691198	39908332		0.544	0.500	8.8	20.0
PCB-1262 Peak 3	Ave	43594472	42672254		0.489	0.500	-2.1	20.0
PCB-1262 Peak 4	Ave	98176018	102623024		0.523	0.500	4.5	20.0
PCB-1262 Peak 5	Ave	36458384	41047596		0.563	0.500	12.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/17 Calibration Date: 05/06/2015 17:12

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 13:45

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 13:45

Lab File ID: S0506117.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	3.32	3.27	3.37
PCB-1232 Peak 2	3.49	3.44	3.54
PCB-1232 Peak 3	3.82	3.77	3.87
PCB-1232 Peak 4	4.31	4.26	4.36
PCB-1232 Peak 5	4.46	4.41	4.51
PCB-1262 Peak 1	6.80	6.74	6.84
PCB-1262 Peak 2	7.30	7.24	7.34
PCB-1262 Peak 3	8.56	8.50	8.60
PCB-1262 Peak 4	9.13	9.07	9.17
PCB-1262 Peak 5	9.61	9.55	9.65

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506117.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-May-2015 17:12:00 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-017
Operator ID: 402331 Instrument ID: CHGC10
Sublist:

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:36:29 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
4 PCB-1232							
1	3.319	3.316	0.003	4054029H	0.5000	0.4911	
1	3.488	3.485	0.003	11906833H	0.5000	0.5052	
1	3.822	3.819	0.003	7148905H	0.5000	0.5300	
1	4.312	4.308	0.004	10203315H	0.5000	0.5240	
1	4.461	4.457	0.004	6346110H	0.5000	0.5124	
		Average of Peak Amounts =				0.5125	
2	3.948	3.945	0.003	2737832H	0.5000	0.4468	
2	4.178	4.175	0.003	6827425H	0.5000	0.4588	
2	4.670	4.666	0.004	4231998H	0.5000	0.4757	
2	5.304	5.299	0.005	6269189H	0.5000	0.4929	
2	5.502	5.497	0.005	3935092H	0.5000	0.4885	
		Average of Peak Amounts =				0.4726	
						RPD = 8.11	
9 PCB-1262							
1	6.798	6.791	0.007	14348002H	0.5000	0.5265	
1	7.300	7.294	0.006	19954166H	0.5000	0.5438	
1	8.556	8.550	0.006	21336127H	0.5000	0.4894	
1	9.129	9.124	0.005	51311512H	0.5000	0.5226	
1	9.609	9.604	0.005	20523798H	0.5000	0.5629	
		Average of Peak Amounts =				0.5291	
2	9.055	9.050	0.005	12208192H	0.5000	0.5162	
2	9.834	9.831	0.003	16652437H	0.5000	0.4660	
2	10.698	10.694	0.004	35478119H	0.5000	0.5104	
2	11.230	11.226	0.004	21594308H	0.5000	0.5039	
2	12.038	12.034	0.004	15557003H	0.5000	0.5388	
		Average of Peak Amounts =				0.5070	
						RPD = 4.25	

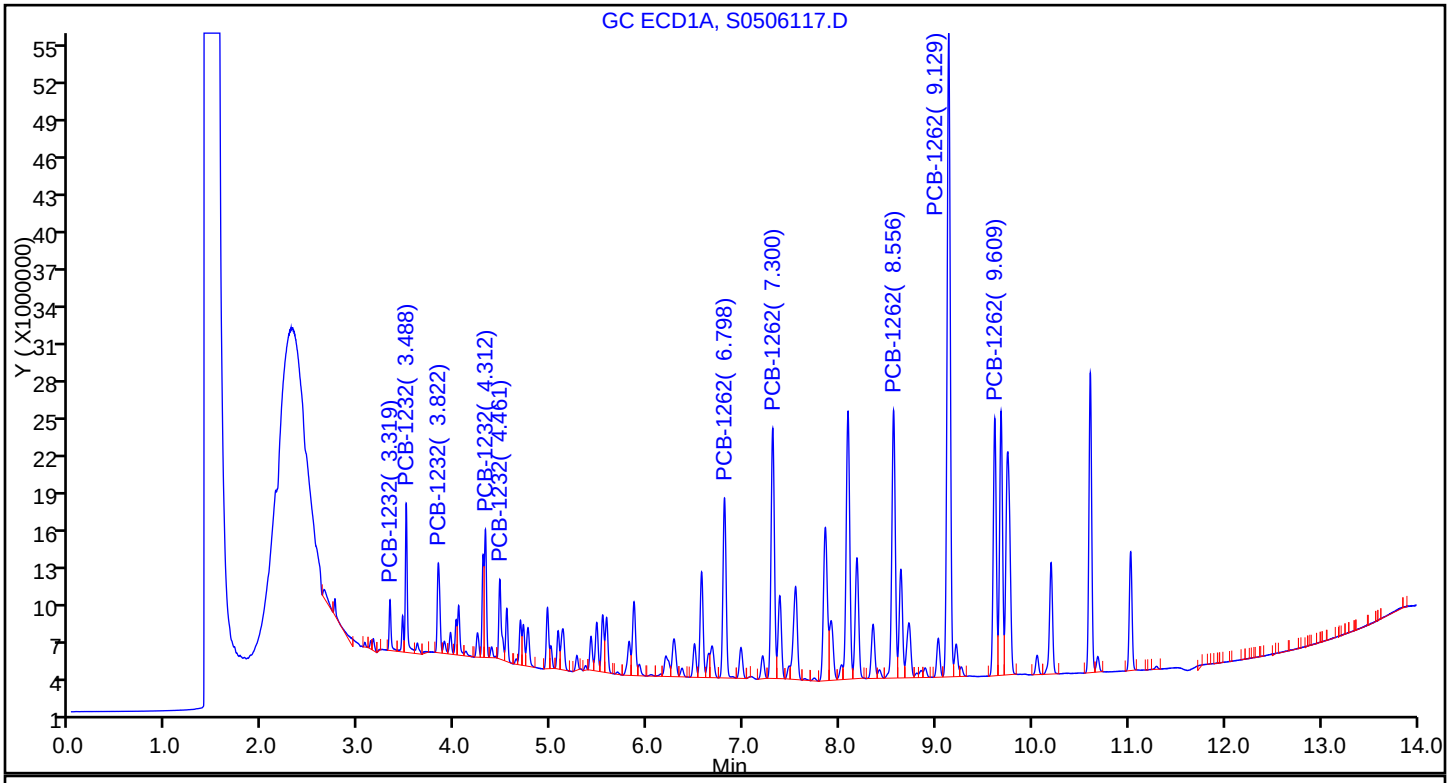
Reagents:

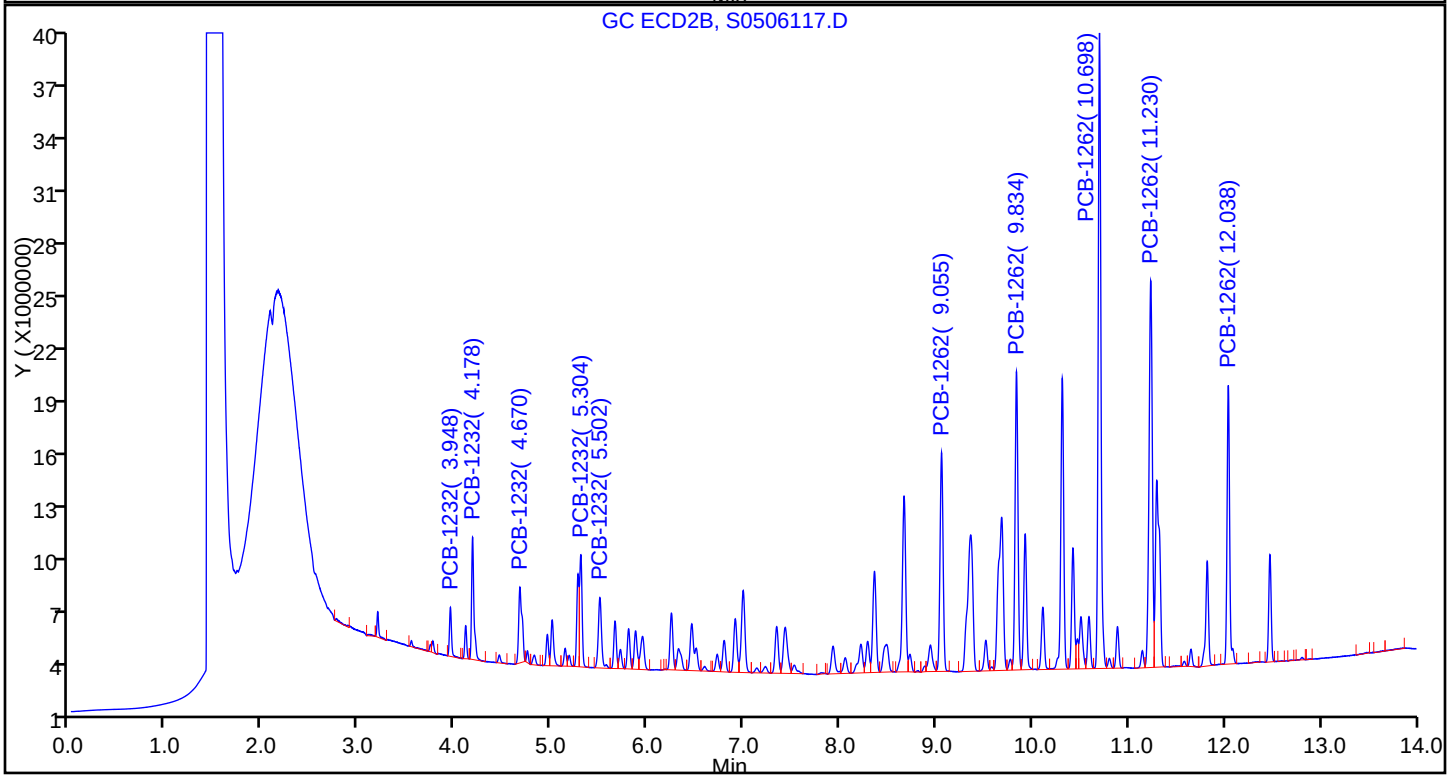
GCAR3262ICV_00001 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:36:41 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506117.D				
Injection Date:	06-May-2015 17:12:00	Instrument ID:	CHGC10		
Lims ID:	ICV				
Client ID:					
Operator ID:	402331	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/17 Calibration Date: 05/06/2015 17:12

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 13:45

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 13:45

Lab File ID: S0506117.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	6127200	5475664		0.447	0.500	-10.6	20.0
PCB-1232 Peak 2	Ave	14880396	13654850		0.459	0.500	-8.2	20.0
PCB-1232 Peak 3	Ave	8895620	8463996		0.476	0.500	-4.9	20.0
PCB-1232 Peak 4	Ave	12719500	12538378		0.493	0.500	-1.4	20.0
PCB-1232 Peak 5	Ave	8054902	7870184		0.489	0.500	-2.3	20.0
PCB-1262 Peak 1	Ave	23649390	24416384		0.516	0.500	3.2	20.0
PCB-1262 Peak 2	Ave	35738190	33304874		0.466	0.500	-6.8	20.0
PCB-1262 Peak 3	Ave	69514538	70956238		0.510	0.500	2.1	20.0
PCB-1262 Peak 4	Ave	42855852	43188616		0.504	0.500	0.8	20.0
PCB-1262 Peak 5	Ave	28873528	31114006		0.539	0.500	7.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/17 Calibration Date: 05/06/2015 17:12

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 13:45

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 13:45

Lab File ID: S0506117.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	3.95	3.90	4.00
PCB-1232 Peak 2	4.18	4.13	4.23
PCB-1232 Peak 3	4.67	4.62	4.72
PCB-1232 Peak 4	5.30	5.25	5.35
PCB-1232 Peak 5	5.50	5.45	5.55
PCB-1262 Peak 1	9.06	9.00	9.10
PCB-1262 Peak 2	9.83	9.78	9.88
PCB-1262 Peak 3	10.70	10.64	10.74
PCB-1262 Peak 4	11.23	11.18	11.28
PCB-1262 Peak 5	12.04	11.98	12.08

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506117.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-May-2015 17:12:00 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-017
Operator ID: 402331 Instrument ID: CHGC10
Sublist:

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:36:29 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
4 PCB-1232							
1	3.319	3.316	0.003	4054029H	0.5000	0.4911	
1	3.488	3.485	0.003	11906833H	0.5000	0.5052	
1	3.822	3.819	0.003	7148905H	0.5000	0.5300	
1	4.312	4.308	0.004	10203315H	0.5000	0.5240	
1	4.461	4.457	0.004	6346110H	0.5000	0.5124	
		Average of Peak Amounts =				0.5125	
2	3.948	3.945	0.003	2737832H	0.5000	0.4468	
2	4.178	4.175	0.003	6827425H	0.5000	0.4588	
2	4.670	4.666	0.004	4231998H	0.5000	0.4757	
2	5.304	5.299	0.005	6269189H	0.5000	0.4929	
2	5.502	5.497	0.005	3935092H	0.5000	0.4885	
		Average of Peak Amounts =				0.4726	
						RPD = 8.11	
9 PCB-1262							
1	6.798	6.791	0.007	14348002H	0.5000	0.5265	
1	7.300	7.294	0.006	19954166H	0.5000	0.5438	
1	8.556	8.550	0.006	21336127H	0.5000	0.4894	
1	9.129	9.124	0.005	51311512H	0.5000	0.5226	
1	9.609	9.604	0.005	20523798H	0.5000	0.5629	
		Average of Peak Amounts =				0.5291	
2	9.055	9.050	0.005	12208192H	0.5000	0.5162	
2	9.834	9.831	0.003	16652437H	0.5000	0.4660	
2	10.698	10.694	0.004	35478119H	0.5000	0.5104	
2	11.230	11.226	0.004	21594308H	0.5000	0.5039	
2	12.038	12.034	0.004	15557003H	0.5000	0.5388	
		Average of Peak Amounts =				0.5070	
						RPD = 4.25	

Reagents:

GCAR3262ICV_00001 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:36:43 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506117.D

Injection Date: 06-May-2015 17:12:00 Instrument ID: CHGC10

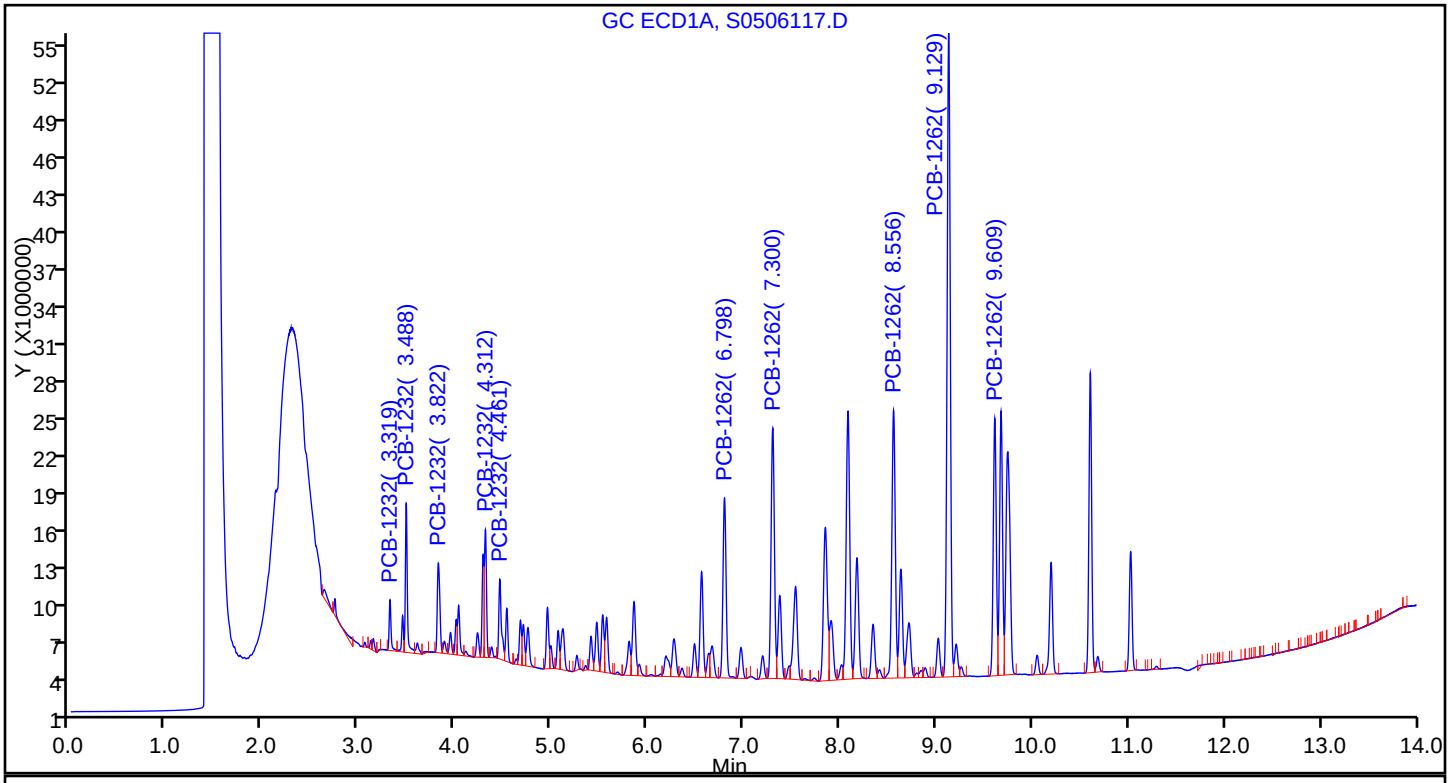
Lims ID: ICV

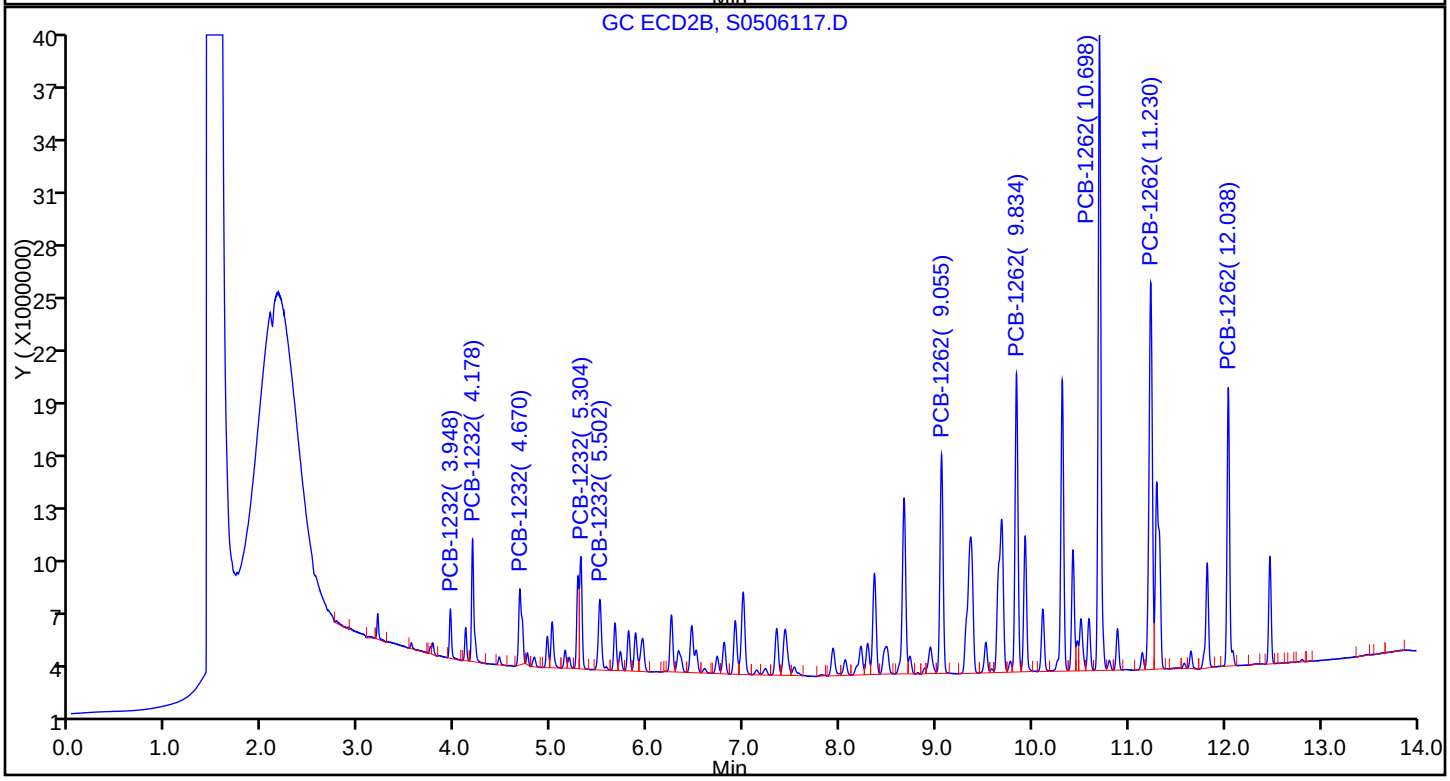
Client ID:

Operator ID: 402331 ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/18 Calibration Date: 05/06/2015 17:30

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:03

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 14:03

Lab File ID: S0506118.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	23775300	24317990		0.511	0.500	2.3	20.0
PCB-1242 Peak 2	Ave	35818808	35603906		0.497	0.500	-0.6	20.0
PCB-1242 Peak 3	Ave	21941212	21380680		0.487	0.500	-2.6	20.0
PCB-1242 Peak 4	Ave	17391994	17957958		0.516	0.500	3.3	20.0
PCB-1242 Peak 5	Ave	16910180	16445324		0.486	0.500	-2.7	20.0
PCB-1268 Peak 1	Ave	115745852	130364886		0.563	0.500	12.6	20.0
PCB-1268 Peak 2	Ave	97446728	120329794		0.617	0.500	23.5*	20.0
PCB-1268 Peak 3	Ave	44051120	34530776		0.392	0.500	-21.6*	20.0
PCB-1268 Peak 4	Ave	342923058	344968282		0.503	0.500	0.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/18 Calibration Date: 05/06/2015 17:30

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:03

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 14:03

Lab File ID: S0506118.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.82	3.77	3.87
PCB-1242 Peak 2	4.31	4.26	4.36
PCB-1242 Peak 3	4.46	4.41	4.51
PCB-1242 Peak 4	4.96	4.90	5.00
PCB-1242 Peak 5	5.53	5.48	5.58
PCB-1268 Peak 1	9.67	9.62	9.72
PCB-1268 Peak 2	10.05	10.00	10.10
PCB-1268 Peak 3	10.60	10.55	10.65
PCB-1268 Peak 4	11.02	10.97	11.07

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506118.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-May-2015 17:30:49 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-018
Operator ID: 402331 Instrument ID: CHGC10
Sublist:

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:36:29 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
5 PCB-1242							
1	3.821	3.818	0.003	12158995H	0.5000	0.5114	
1	4.310	4.308	0.002	17801953H	0.5000	0.4970	
1	4.460	4.457	0.003	10690340H	0.5000	0.4872	
1	4.955	4.952	0.003	8978979H	0.5000	0.5163	
1	5.529	5.527	0.002	8222662H	0.5000	0.4863	
		Average of Peak Amounts =				0.4996	
2	4.177	4.175	0.002	5309738H	0.5000	0.4750	
2	4.669	4.667	0.002	7089790H	0.5000	0.4710	
2	5.301	5.300	0.001	10642283H	0.5000	0.4720	
2	6.243	6.242	0.001	5543723H	0.5000	0.4734	
2	6.993	6.991	0.002	5553416H	0.5000	0.4732	
		Average of Peak Amounts =				0.4729	
						RPD = 5.49	
10 PCB-1268							
1	9.673	9.670	0.003	65182443H	0.5000	0.5632	
1	10.048	10.045	0.003	60164897H	0.5000	0.6174	
1	10.601	10.597	0.004	17265388H	0.5000	0.3919	
1	11.021	11.018	0.003	172484141H	0.5000	0.5030	
		Average of Peak Amounts =				0.5189	
2	11.225	11.222	0.003	43008863H	0.5000	0.5290	
2	11.291	11.288	0.003	36297043H	0.5000	0.5331	
2	11.647	11.646	0.001	37789009H	0.5000	0.5690	
2	12.469	12.467	0.002	102648433H	0.5000	0.4782	
		Average of Peak Amounts =				0.5273	
						RPD = 1.61	

Reagents:

GCAR4268ICV_00001 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:36:36 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506118.D

Injection Date: 06-May-2015 17:30:49 Instrument ID: CHGC10

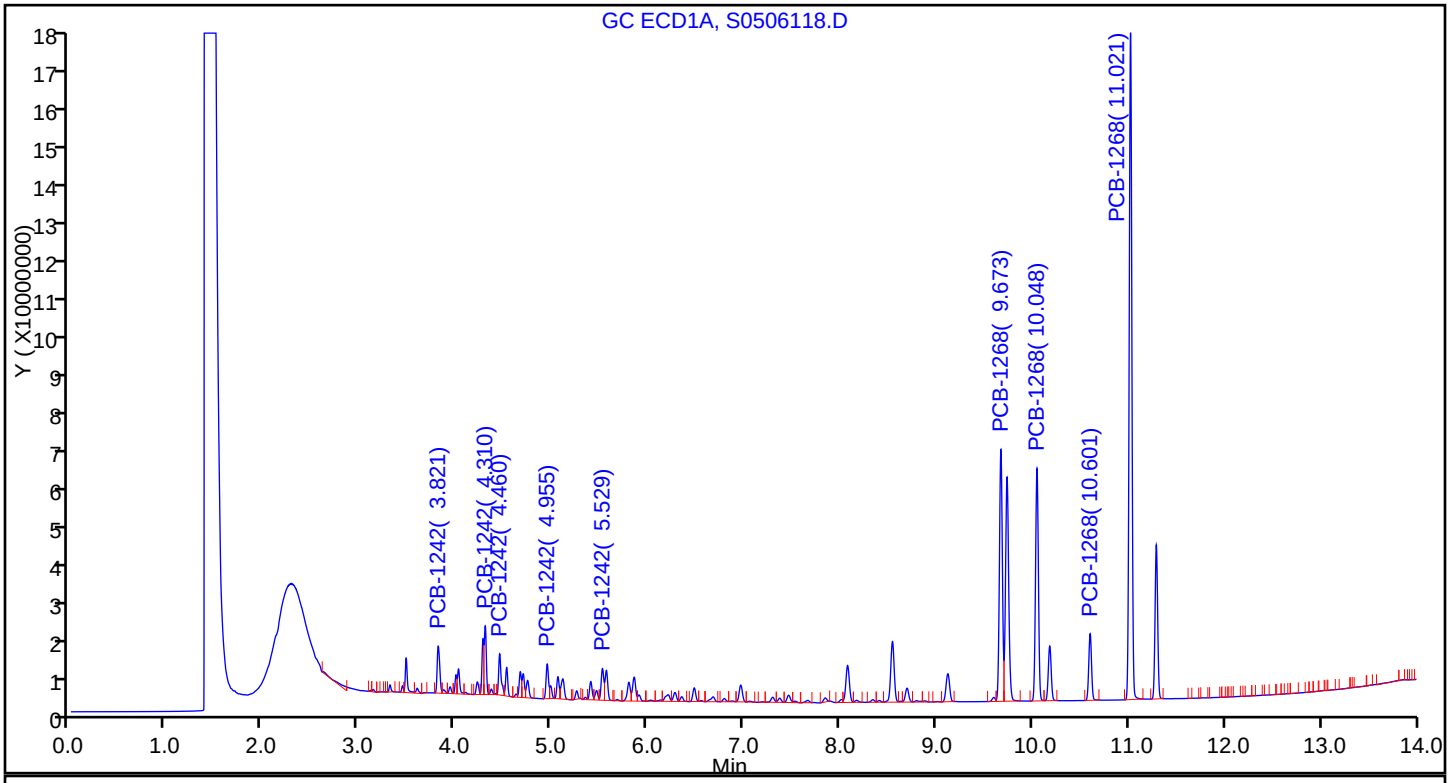
Lims ID: ICV

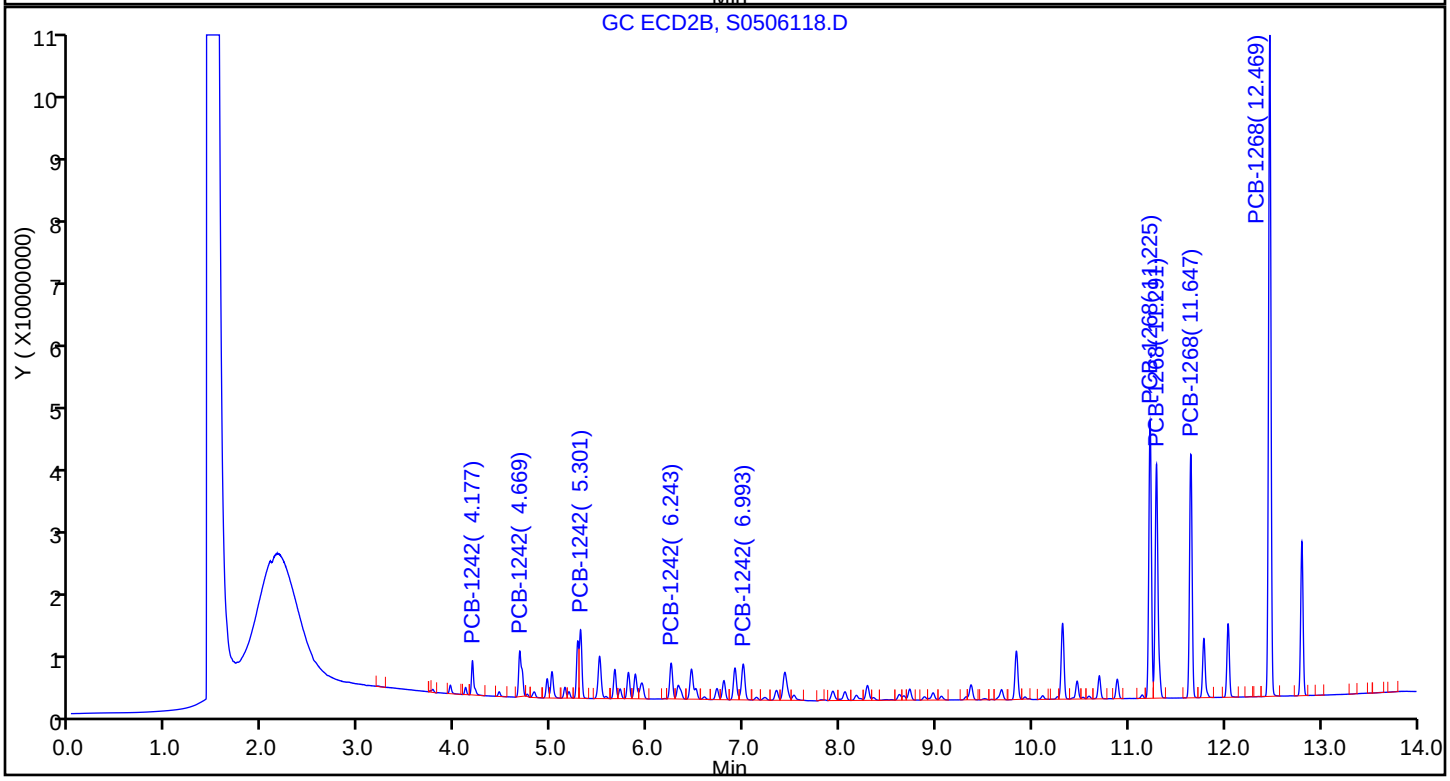
Client ID:

Operator ID: 402331 ALS Bottle#: 18 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/18 Calibration Date: 05/06/2015 17:30

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:03

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 14:03

Lab File ID: S0506118.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	11179540	10619476		0.475	0.500	-5.0	20.0
PCB-1242 Peak 2	Ave	15052640	14179580		0.471	0.500	-5.8	20.0
PCB-1242 Peak 3	Ave	22545642	21284566		0.472	0.500	-5.6	20.0
PCB-1242 Peak 4	Ave	11709734	11087446		0.473	0.500	-5.3	20.0
PCB-1242 Peak 5	Ave	11735842	11106832		0.473	0.500	-5.4	20.0
PCB-1268 Peak 1	Ave	81307552	86017726		0.529	0.500	5.8	20.0
PCB-1268 Peak 2	Ave	68090580	72594086		0.533	0.500	6.6	20.0
PCB-1268 Peak 3	Ave	66418768	75578018		0.569	0.500	13.8	20.0
PCB-1268 Peak 4	Ave	214671178	205296866		0.478	0.500	-4.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/18 Calibration Date: 05/06/2015 17:30

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:03

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 14:03

Lab File ID: S0506118.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	4.18	4.13	4.23
PCB-1242 Peak 2	4.67	4.62	4.72
PCB-1242 Peak 3	5.30	5.25	5.35
PCB-1242 Peak 4	6.24	6.19	6.29
PCB-1242 Peak 5	6.99	6.94	7.04
PCB-1268 Peak 1	11.23	11.17	11.27
PCB-1268 Peak 2	11.29	11.24	11.34
PCB-1268 Peak 3	11.65	11.60	11.70
PCB-1268 Peak 4	12.47	12.42	12.52

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506118.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-May-2015 17:30:49 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-018
Operator ID: 402331 Instrument ID: CHGC10
Sublist:

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:36:29 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
5 PCB-1242							
1	3.821	3.818	0.003	12158995H	0.5000	0.5114	
1	4.310	4.308	0.002	17801953H	0.5000	0.4970	
1	4.460	4.457	0.003	10690340H	0.5000	0.4872	
1	4.955	4.952	0.003	8978979H	0.5000	0.5163	
1	5.529	5.527	0.002	8222662H	0.5000	0.4863	
		Average of Peak Amounts =				0.4996	
2	4.177	4.175	0.002	5309738H	0.5000	0.4750	
2	4.669	4.667	0.002	7089790H	0.5000	0.4710	
2	5.301	5.300	0.001	10642283H	0.5000	0.4720	
2	6.243	6.242	0.001	5543723H	0.5000	0.4734	
2	6.993	6.991	0.002	5553416H	0.5000	0.4732	
		Average of Peak Amounts =				0.4729	
						RPD = 5.49	
10 PCB-1268							
1	9.673	9.670	0.003	65182443H	0.5000	0.5632	
1	10.048	10.045	0.003	60164897H	0.5000	0.6174	
1	10.601	10.597	0.004	17265388H	0.5000	0.3919	
1	11.021	11.018	0.003	172484141H	0.5000	0.5030	
		Average of Peak Amounts =				0.5189	
2	11.225	11.222	0.003	43008863H	0.5000	0.5290	
2	11.291	11.288	0.003	36297043H	0.5000	0.5331	
2	11.647	11.646	0.001	37789009H	0.5000	0.5690	
2	12.469	12.467	0.002	102648433H	0.5000	0.4782	
		Average of Peak Amounts =				0.5273	
						RPD = 1.61	

Reagents:

GCAR4268ICV_00001 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:36:37 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506118.D

Injection Date: 06-May-2015 17:30:49 Instrument ID: CHGC10

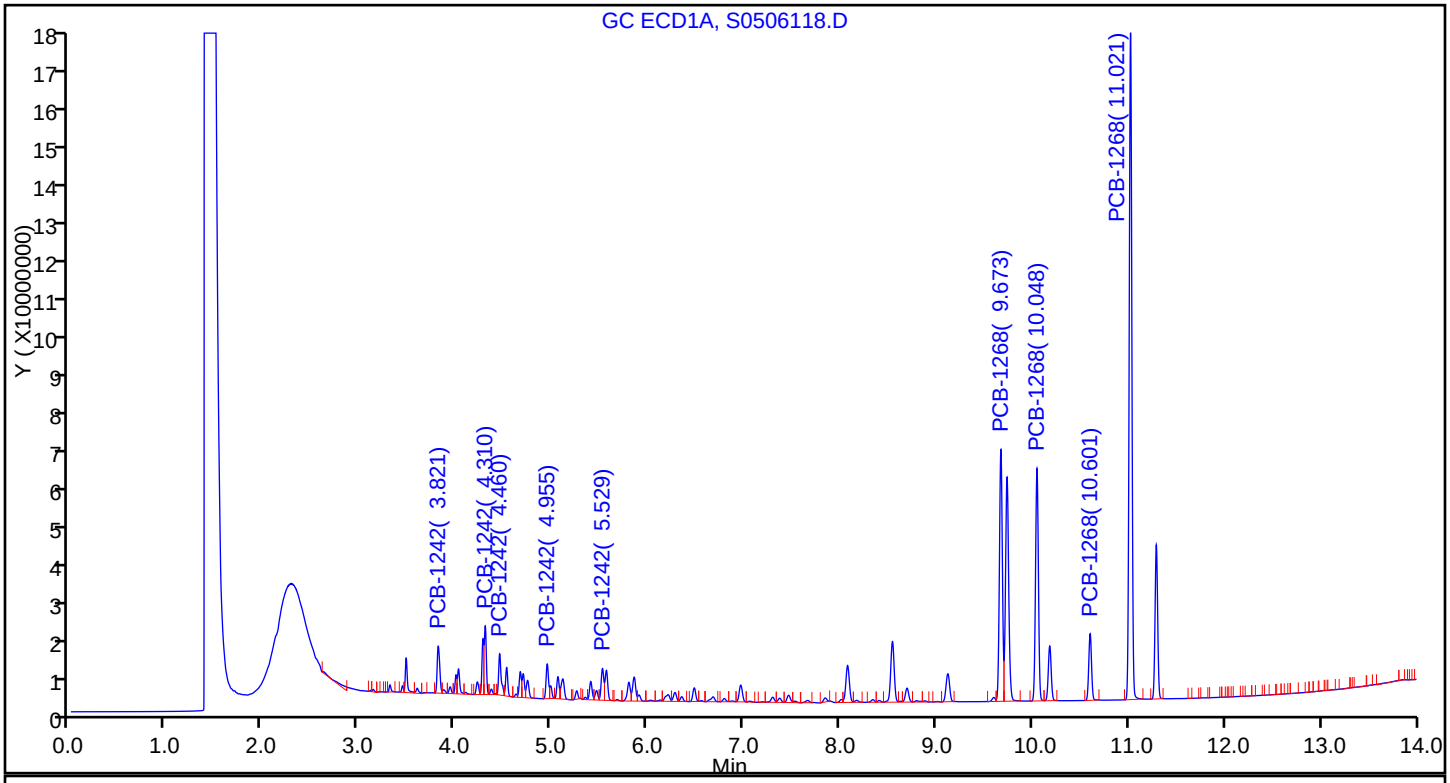
Lims ID: ICV

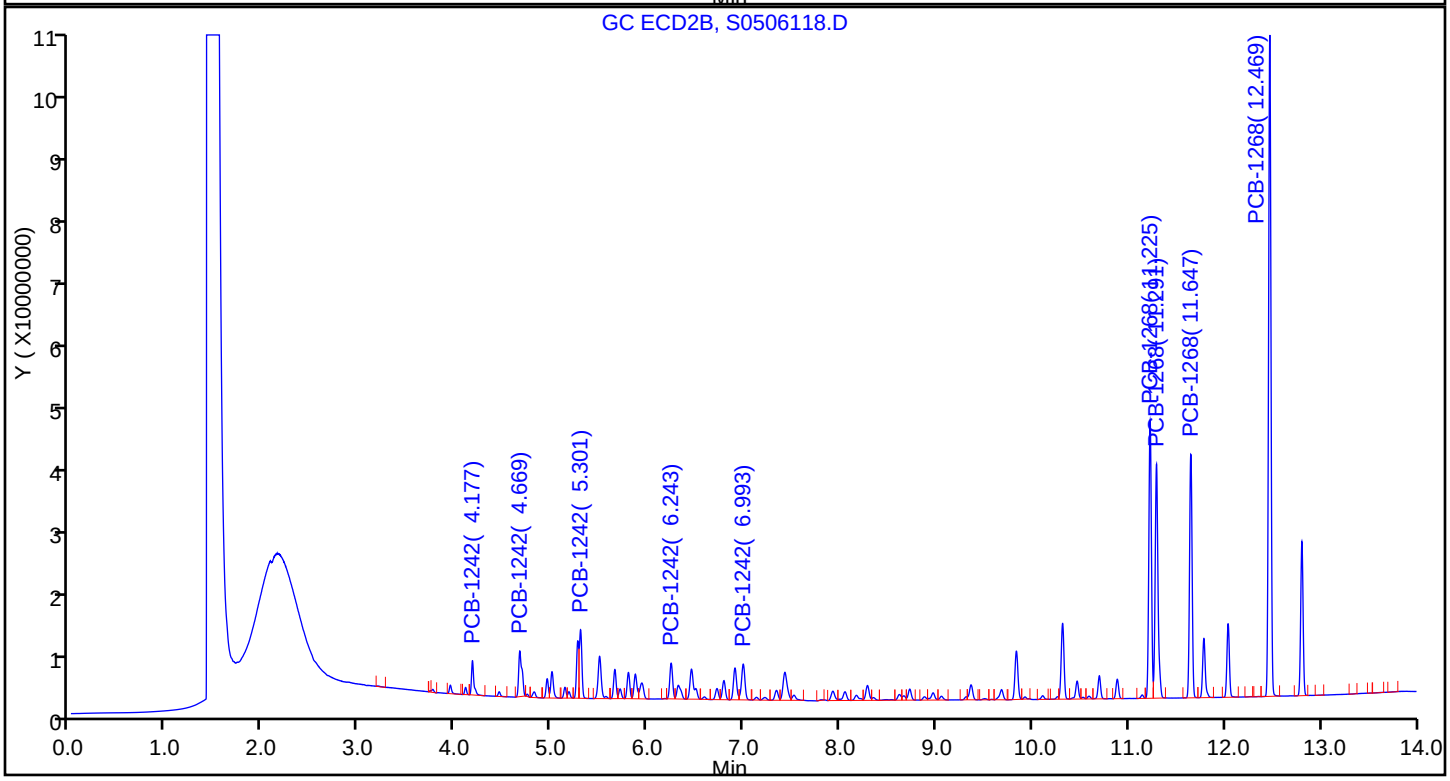
Client ID:

Operator ID: 402331 ALS Bottle#: 18 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/19 Calibration Date: 05/06/2015 17:49

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:22

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 14:22

Lab File ID: S0506119.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	13779832	13750568		0.499	0.500	-0.2	20.0
PCB-1248 Peak 2	Ave	20630810	21608608		0.524	0.500	4.7	20.0
PCB-1248 Peak 3	Ave	27456448	29598864		0.539	0.500	7.8	20.0
PCB-1248 Peak 4	Ave	28995722	32780016		0.565	0.500	13.1	20.0
PCB-1248 Peak 5	Ave	24637184	28099304		0.570	0.500	14.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/19 Calibration Date: 05/06/2015 17:49

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:22

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 14:22

Lab File ID: S0506119.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.82	3.77	3.87
PCB-1248 Peak 2	4.31	4.26	4.36
PCB-1248 Peak 3	4.95	4.90	5.00
PCB-1248 Peak 4	5.53	5.48	5.58
PCB-1248 Peak 5	5.57	5.52	5.62

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506119.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-May-2015 17:49:36 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-019
Operator ID: 402331 Instrument ID: CHGC10
Sublist:

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:36:29 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1248							
1	3.818	3.818	0.000	6875284H	0.5000	0.4989	
1	4.308	4.308	0.000	10804304H	0.5000	0.5237	
1	4.952	4.953	-0.001	14799432H	0.5000	0.5390	
1	5.525	5.528	-0.003	16390008H	0.5000	0.5653	
1	5.567	5.568	-0.001	14049652H	0.5000	0.5703	
		Average of Peak Amounts =				0.5394	
2	4.667	4.668	-0.001	4263025H	0.5000	0.4641	
2	5.796	5.798	-0.002	7338586H	0.5000	0.5059	
2	6.241	6.242	-0.001	9261342H	0.5000	0.5122	
2	6.990	6.991	-0.001	10273123H	0.5000	0.5376	
2	7.424	7.425	-0.001	7545906H	0.5000	0.5359	
		Average of Peak Amounts =				0.5111	
						RPD = 5.39	

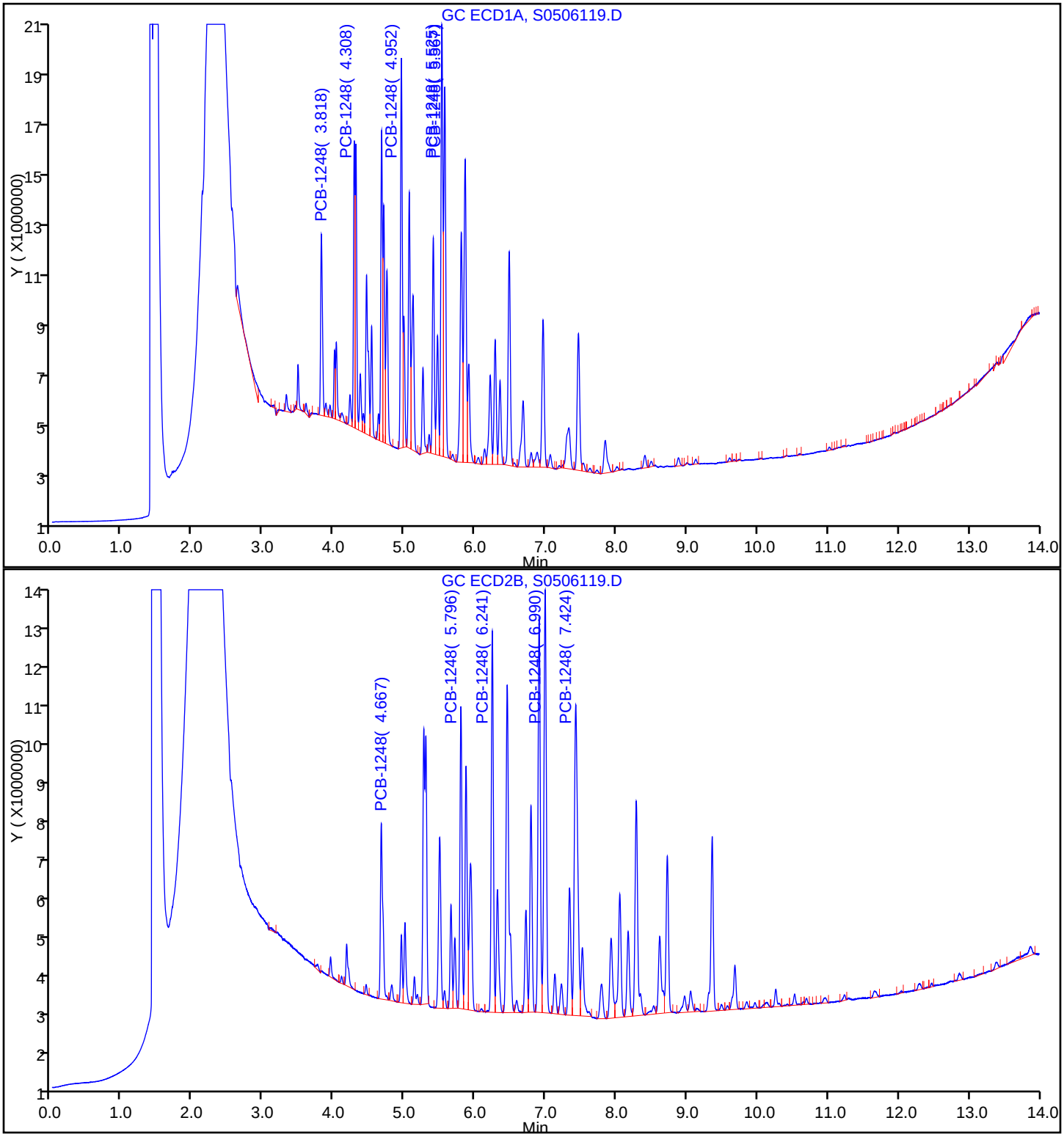
Reagents:

GCAR1248ICV_00010 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:36:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506119.D				
Injection Date:	06-May-2015 17:49:36	Instrument ID:	CHGC10		
Lims ID:	ICV				
Client ID:					
Operator ID:	402331	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/19 Calibration Date: 05/06/2015 17:49

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:22

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 14:22

Lab File ID: S0506119.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	9185644	8526050		0.464	0.500	-7.2	20.0
PCB-1248 Peak 2	Ave	14505476	14677172		0.506	0.500	1.2	20.0
PCB-1248 Peak 3	Ave	18081442	18522684		0.512	0.500	2.4	20.0
PCB-1248 Peak 4	Ave	19110122	20546246		0.538	0.500	7.5	20.0
PCB-1248 Peak 5	Ave	14081582	15091812		0.536	0.500	7.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/19 Calibration Date: 05/06/2015 17:49

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:22

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 14:22

Lab File ID: S0506119.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	4.67	4.62	4.72
PCB-1248 Peak 2	5.80	5.75	5.85
PCB-1248 Peak 3	6.24	6.19	6.29
PCB-1248 Peak 4	6.99	6.94	7.04
PCB-1248 Peak 5	7.42	7.38	7.48

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506119.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-May-2015 17:49:36 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-019
Operator ID: 402331 Instrument ID: CHGC10
Sublist:

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 07:36:29 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1248							
1	3.818	3.818	0.000	6875284H	0.5000	0.4989	
1	4.308	4.308	0.000	10804304H	0.5000	0.5237	
1	4.952	4.953	-0.001	14799432H	0.5000	0.5390	
1	5.525	5.528	-0.003	16390008H	0.5000	0.5653	
1	5.567	5.568	-0.001	14049652H	0.5000	0.5703	
		Average of Peak Amounts =				0.5394	
2	4.667	4.668	-0.001	4263025H	0.5000	0.4641	
2	5.796	5.798	-0.002	7338586H	0.5000	0.5059	
2	6.241	6.242	-0.001	9261342H	0.5000	0.5122	
2	6.990	6.991	-0.001	10273123H	0.5000	0.5376	
2	7.424	7.425	-0.001	7545906H	0.5000	0.5359	
		Average of Peak Amounts =				0.5111	
						RPD = 5.39	

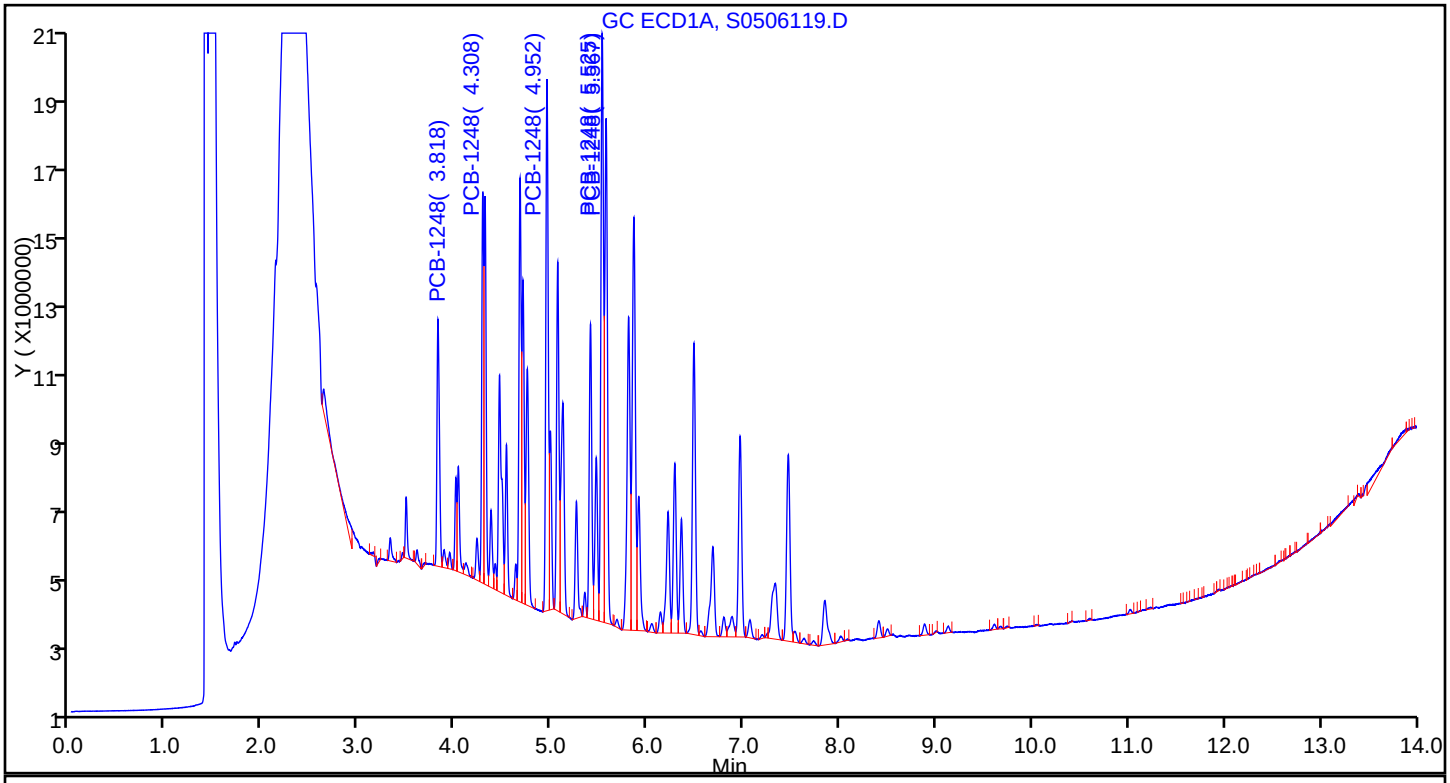
Reagents:

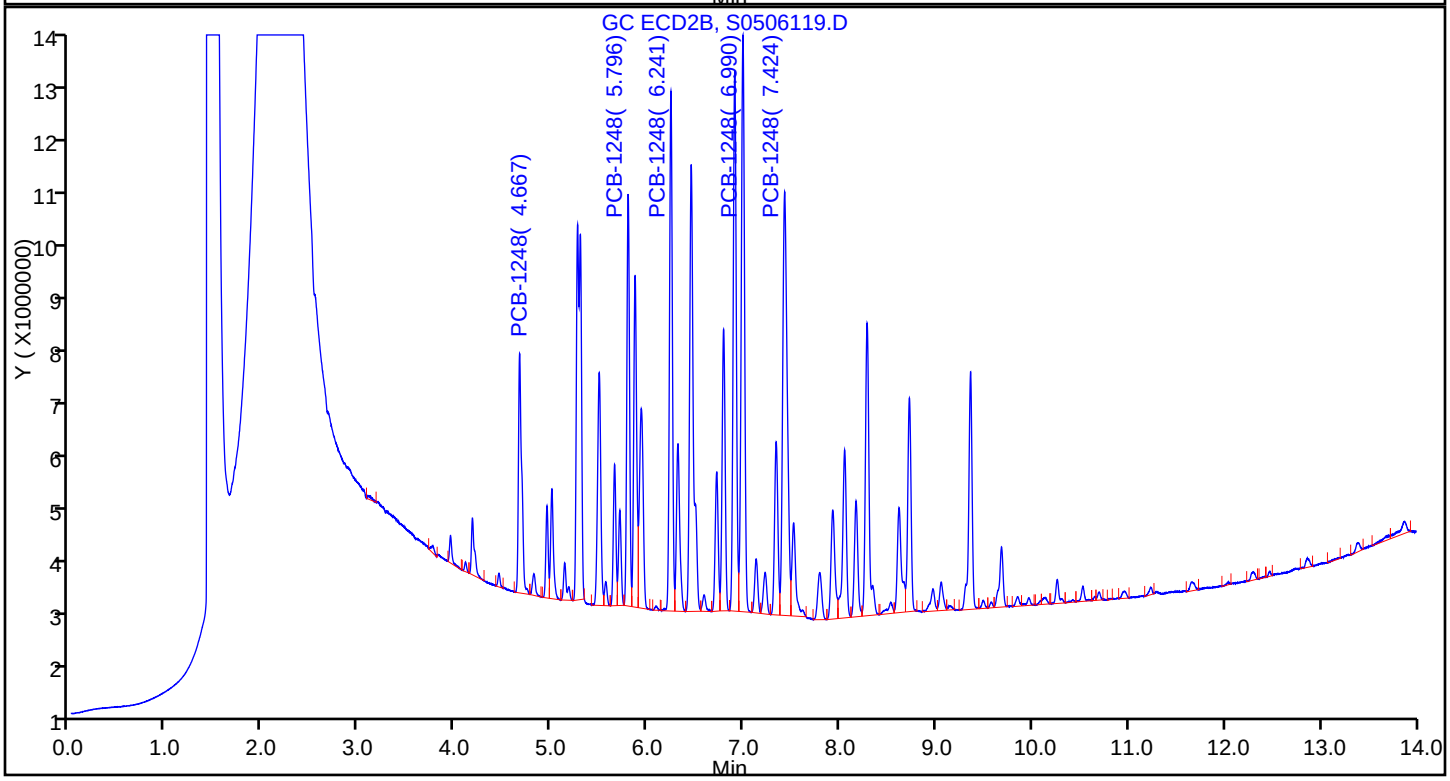
GCAR1248ICV_00010 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 07:36:33 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506119.D				
Injection Date:	06-May-2015 17:49:36	Instrument ID:	CHGC10		
Lims ID:	ICV				
Client ID:					
Operator ID:	402331	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/20 Calibration Date: 05/06/2015 18:08

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506120.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	19461582	23070580		0.593	0.500	18.5	20.0
PCB-1016 Peak 2	Ave	28240270	33990536		0.602	0.500	20.4*	20.0
PCB-1016 Peak 3	Ave	41210382	49841856		0.605	0.500	20.9*	20.0
PCB-1016 Peak 4	Ave	24721701	29557266		0.598	0.500	19.6	20.0
PCB-1016 Peak 5	Ave	20087471	23513142		0.585	0.500	17.1	20.0
PCB-1260 Peak 1	Ave	33885801	38931548		0.574	0.500	14.9	20.0
PCB-1260 Peak 2	Ave	49036160	57800378		0.589	0.500	17.9	20.0
PCB-1260 Peak 3	Ave	32258885	33445042		0.518	0.500	3.7	20.0
PCB-1260 Peak 4	Ave	79638645	82619138		0.519	0.500	3.7	20.0
PCB-1260 Peak 5	Ave	42706505	48796306		0.571	0.500	14.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/20 Calibration Date: 05/06/2015 18:08

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506120.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.49	3.44	3.54
PCB-1016 Peak 2	3.82	3.77	3.87
PCB-1016 Peak 3	4.31	4.26	4.36
PCB-1016 Peak 4	4.46	4.41	4.51
PCB-1016 Peak 5	4.95	4.90	5.00
PCB-1260 Peak 1	6.80	6.75	6.85
PCB-1260 Peak 2	7.30	7.25	7.35
PCB-1260 Peak 3	8.55	8.50	8.60
PCB-1260 Peak 4	9.13	9.08	9.18
PCB-1260 Peak 5	9.61	9.56	9.66

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506120.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-May-2015 18:08:24 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-020
Operator ID: 402331 Instrument ID: CHGC10
Sublist:

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 06:38:31 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:32:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
3 PCB-1016							M
1	3.486	3.486	0.000	11535290H	0.5000	0.5927	M
1	3.819	3.820	-0.001	16995268H	0.5000	0.6018	M
1	4.309	4.309	0.000	24920928H	0.5000	0.6047	M
1	4.458	4.459	-0.001	14778633H	0.5000	0.5978	M
1	4.954	4.954	0.000	11756571H	0.5000	0.5853	
		Average of Peak Amounts =				0.5965	
2	4.176	4.176	0.000	7140356H	0.5000	0.5544	
2	4.668	4.669	-0.001	9999758H	0.5000	0.5685	
2	5.301	5.301	0.000	15266357H	0.5000	0.5929	
2	5.498	5.499	-0.001	9116351H	0.5000	0.5634	
2	6.243	6.244	-0.001	7687793H	0.5000	0.5697	
		Average of Peak Amounts =				0.5698	
						RPD = 4.58	
8 PCB-1260							
1	6.795	6.795	0.000	19465774H	0.5000	0.5745	
1	7.296	7.296	0.000	28900189H	0.5000	0.5894	
1	8.553	8.554	-0.001	16722521H	0.5000	0.5184	
1	9.126	9.126	0.000	41309569H	0.5000	0.5187	
1	9.606	9.606	0.000	24398153H	0.5000	0.5713	
		Average of Peak Amounts =				0.5544	
2	8.663	8.663	0.000	13255523H	0.5000	0.5565	
2	9.052	9.052	0.000	16234347H	0.5000	0.5468	
2	10.307	10.310	-0.003	12841018H	0.5000	0.4740	
2	10.696	10.696	0.000	29036854H	0.5000	0.4822	
2	11.234	11.235	-0.001	17957057H	0.5000	0.5094	
		Average of Peak Amounts =				0.5138	
						RPD = 7.61	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR 1660ICV_00003 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 09:31:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506120.D

Injection Date: 06-May-2015 18:08:24 Instrument ID: CHGC10

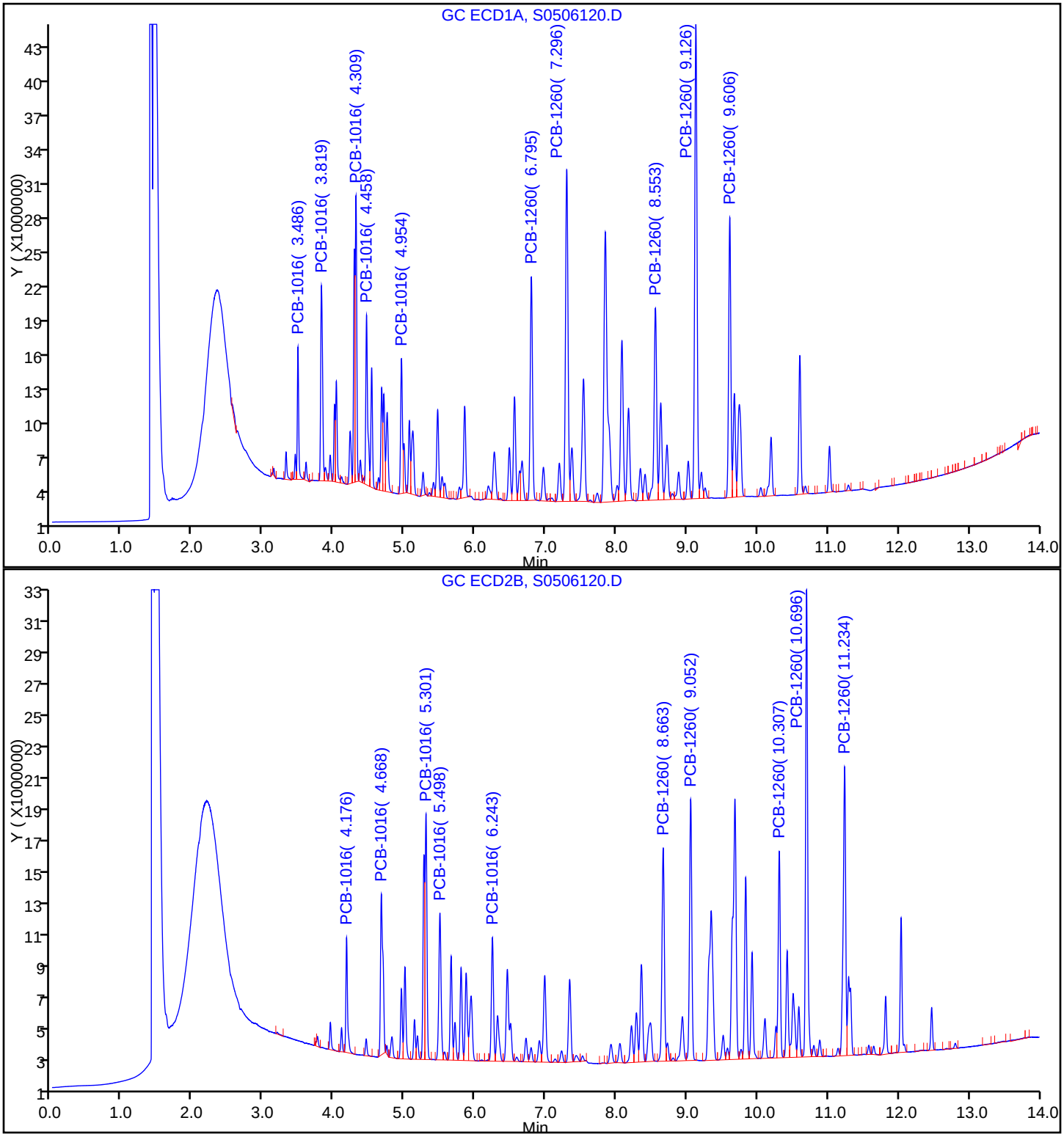
Lims ID: ICV

Client ID:

Operator ID: 402331 ALS Bottle#: 20 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



Report Date: 07-May-2015 09:31:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506120.D

Injection Date: 06-May-2015 18:08:24 Instrument ID: CHGC10

Lims ID: ICV

Client ID:

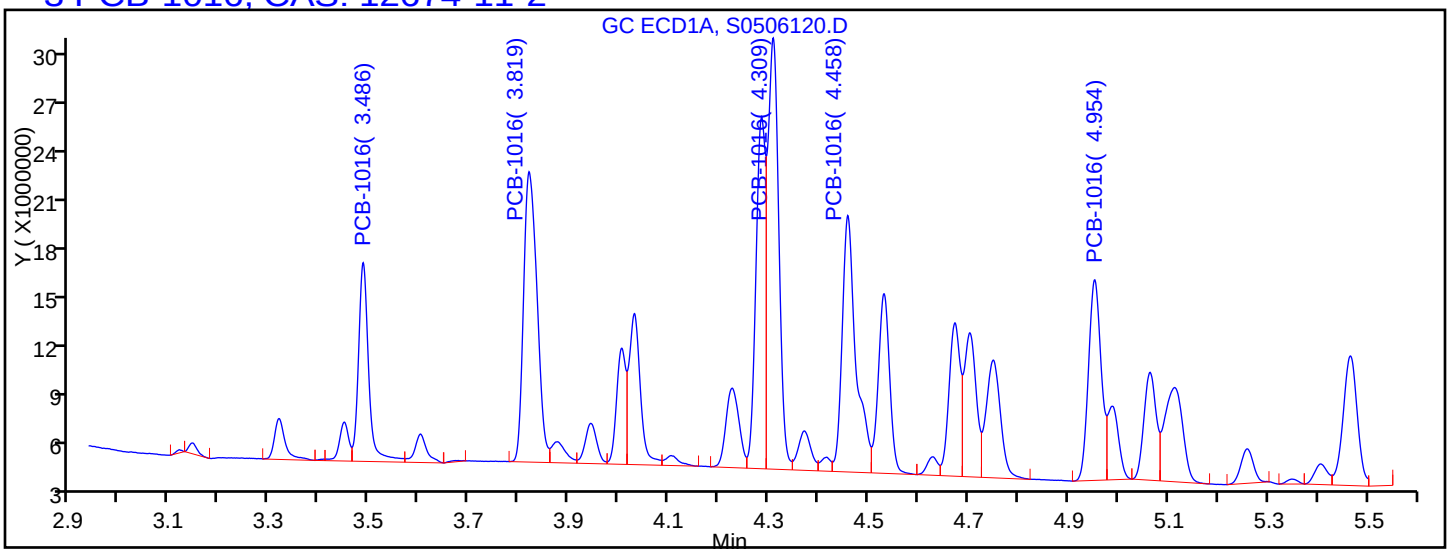
Operator ID: 402331 ALS Bottle#: 20 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

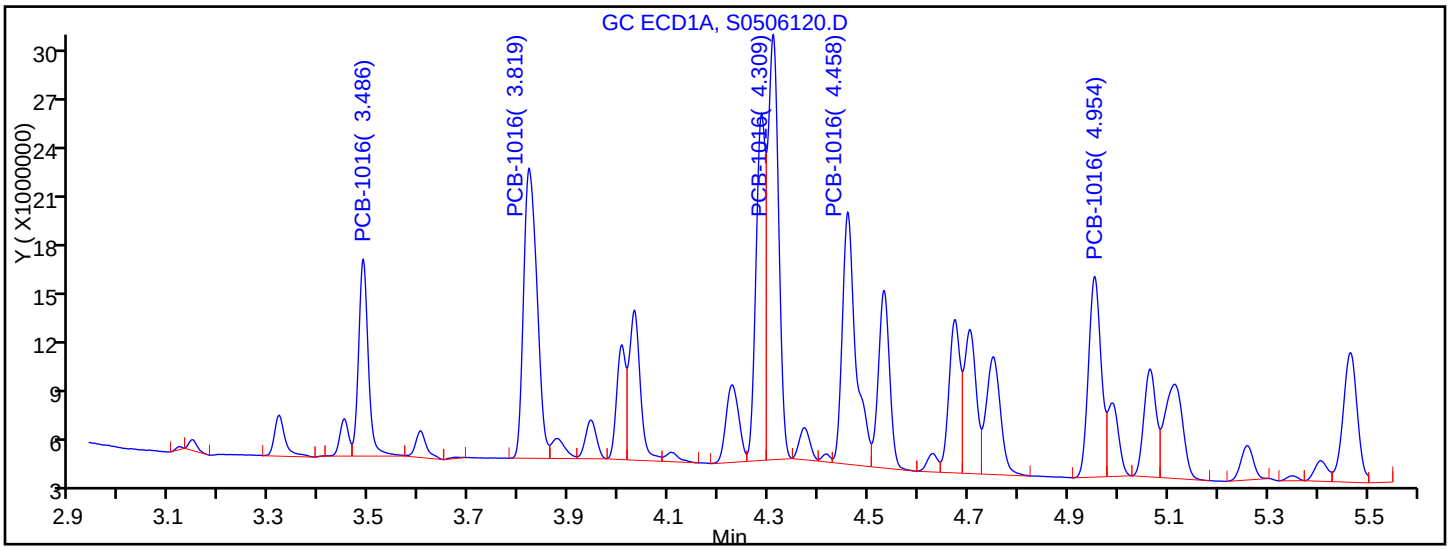
Column: Detector GC ECD1A

3 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 3.486	Response = 11651541	M
RT = 3.819	Response = 17026580	M
RT = 4.309	Response = 25287525	M
RT = 4.458	Response = 15038704	M
RT = 4.954	Response = 11756571	



Manual Integration Results

RT = 3.486	Response = 11535290	M
RT = 3.819	Response = 16995268	M
RT = 4.309	Response = 24920928	M
RT = 4.458	Response = 14778633	M
RT = 4.954	Response = 11756571	

Reviewer: oravecj, 07-May-2015 07:30:11

Audit Action: Assigned New Baseline

Audit Reason: Instrument noise

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/20 Calibration Date: 05/06/2015 18:08

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506120.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	12879328	14280712		0.554	0.500	10.9	20.0
PCB-1016 Peak 2	Ave	17589644	19999516		0.569	0.500	13.7	20.0
PCB-1016 Peak 3	Ave	25747520	30532714		0.593	0.500	18.6	20.0
PCB-1016 Peak 4	Ave	16180501	18232702		0.563	0.500	12.7	20.0
PCB-1016 Peak 5	Ave	13495116	15375586		0.570	0.500	13.9	20.0
PCB-1260 Peak 1	Ave	23817655	26511046		0.557	0.500	11.3	20.0
PCB-1260 Peak 2	Ave	29690567	32468694		0.547	0.500	9.4	20.0
PCB-1260 Peak 3	Ave	27090587	25682036		0.474	0.500	-5.2	20.0
PCB-1260 Peak 4	Ave	60220453	58073708		0.482	0.500	-3.6	20.0
PCB-1260 Peak 5	Ave	35252396	35914114		0.509	0.500	1.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICV 180-140736/20 Calibration Date: 05/06/2015 18:08

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506120.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.18	4.13	4.23
PCB-1016 Peak 2	4.67	4.62	4.72
PCB-1016 Peak 3	5.30	5.25	5.35
PCB-1016 Peak 4	5.50	5.45	5.55
PCB-1016 Peak 5	6.24	6.19	6.29
PCB-1260 Peak 1	8.66	8.61	8.71
PCB-1260 Peak 2	9.05	9.00	9.10
PCB-1260 Peak 3	10.31	10.26	10.36
PCB-1260 Peak 4	10.70	10.65	10.75
PCB-1260 Peak 5	11.23	11.19	11.29

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506120.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-May-2015 18:08:24 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-020
Operator ID: 402331 Instrument ID: CHGC10
Sublist:

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 06:38:31 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 07:32:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
3 PCB-1016							M
1	3.486	3.486	0.000	11535290H	0.5000	0.5927	M
1	3.819	3.820	-0.001	16995268H	0.5000	0.6018	M
1	4.309	4.309	0.000	24920928H	0.5000	0.6047	M
1	4.458	4.459	-0.001	14778633H	0.5000	0.5978	M
1	4.954	4.954	0.000	11756571H	0.5000	0.5853	
		Average of Peak Amounts =				0.5965	
2	4.176	4.176	0.000	7140356H	0.5000	0.5544	
2	4.668	4.669	-0.001	9999758H	0.5000	0.5685	
2	5.301	5.301	0.000	15266357H	0.5000	0.5929	
2	5.498	5.499	-0.001	9116351H	0.5000	0.5634	
2	6.243	6.244	-0.001	7687793H	0.5000	0.5697	
		Average of Peak Amounts =				0.5698	
						RPD = 4.58	
8 PCB-1260							
1	6.795	6.795	0.000	19465774H	0.5000	0.5745	
1	7.296	7.296	0.000	28900189H	0.5000	0.5894	
1	8.553	8.554	-0.001	16722521H	0.5000	0.5184	
1	9.126	9.126	0.000	41309569H	0.5000	0.5187	
1	9.606	9.606	0.000	24398153H	0.5000	0.5713	
		Average of Peak Amounts =				0.5544	
2	8.663	8.663	0.000	13255523H	0.5000	0.5565	
2	9.052	9.052	0.000	16234347H	0.5000	0.5468	
2	10.307	10.310	-0.003	12841018H	0.5000	0.4740	
2	10.696	10.696	0.000	29036854H	0.5000	0.4822	
2	11.234	11.235	-0.001	17957057H	0.5000	0.5094	
		Average of Peak Amounts =				0.5138	
						RPD = 7.61	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR 1660ICV_00003 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 09:31:17 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506120.D

Injection Date: 06-May-2015 18:08:24 Instrument ID: CHGC10

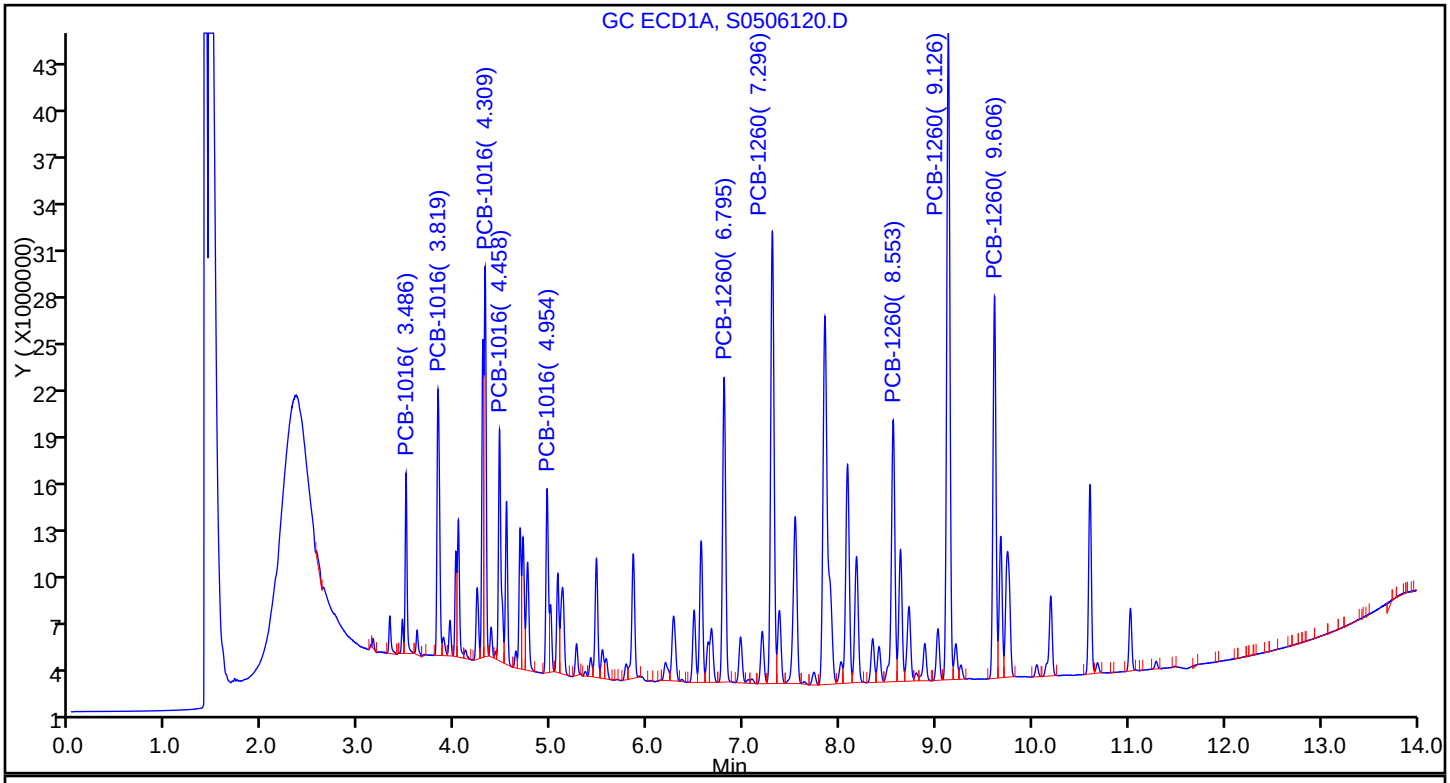
Lims ID: ICV

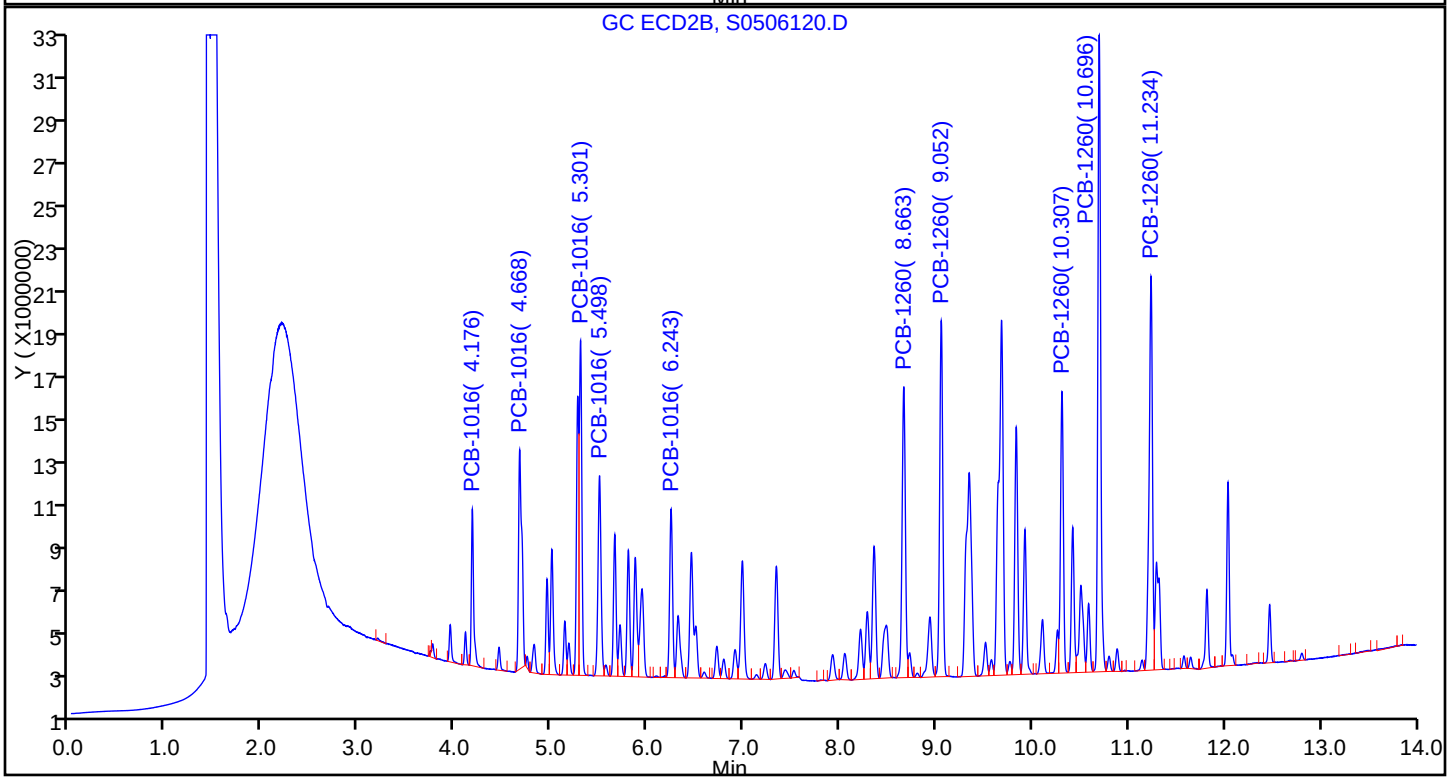
Client ID:

Operator ID: 402331 ALS Bottle#: 20 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140736/21 Calibration Date: 05/07/2015 05:22

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506121.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	19461582	19056358		0.490	0.500	-2.1	20.0
PCB-1016 Peak 2	Ave	28240270	27066450		0.479	0.500	-4.2	20.0
PCB-1016 Peak 3	Ave	41210382	40716864		0.494	0.500	-1.2	20.0
PCB-1016 Peak 4	Ave	24721701	24270296		0.491	0.500	-1.8	20.0
PCB-1016 Peak 5	Ave	20087471	19718502		0.491	0.500	-1.8	20.0
PCB-1260 Peak 1	Ave	33885801	32973940		0.487	0.500	-2.7	20.0
PCB-1260 Peak 2	Ave	49036160	47707412		0.486	0.500	-2.7	20.0
PCB-1260 Peak 3	Ave	32258885	30957770		0.480	0.500	-4.0	20.0
PCB-1260 Peak 4	Ave	79638645	75316486		0.473	0.500	-5.4	20.0
PCB-1260 Peak 5	Ave	42706505	40069044		0.469	0.500	-6.2	20.0
Tetrachloro-m-xylene (Surr)	Ave	1039096011	1124341440		0.0271	0.0250	8.2	20.0
DCB Decachlorobiphenyl (Surr)	Ave	923474456	830874880		0.0225	0.0250	-10.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140736/21 Calibration Date: 05/07/2015 05:22

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506121.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.48	3.43	3.53
PCB-1016 Peak 2	3.82	3.77	3.87
PCB-1016 Peak 3	4.31	4.26	4.36
PCB-1016 Peak 4	4.46	4.41	4.51
PCB-1016 Peak 5	4.95	4.90	5.00
PCB-1260 Peak 1	6.80	6.75	6.85
PCB-1260 Peak 2	7.30	7.25	7.35
PCB-1260 Peak 3	8.56	8.51	8.61
PCB-1260 Peak 4	9.13	9.08	9.18
PCB-1260 Peak 5	9.61	9.56	9.66
Tetrachloro-m-xylene (Surr)	3.17	3.12	3.22
DCB Decachlorobiphenyl (Surr)	11.29	11.22	11.36

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506121.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 07-May-2015 05:22:53 ALS Bottle#: 1 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-021
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:36 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 09:32:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.172	3.172	0.000	28108536H	0.0250	0.0271	
2	3.643	3.643	0.000	23557942H	0.0250	0.0262	
						RPD = 3.24	
3 PCB-1016							
1	3.483	3.483	0.000	9528179H	0.5000	0.4896	
1	3.816	3.816	0.000	13533225H	0.5000	0.4792	
1	4.307	4.307	0.000	20358432H	0.5000	0.4940	
1	4.456	4.456	0.000	12135148H	0.5000	0.4909	
1	4.953	4.953	0.000	9859251H	0.5000	0.4908	
		Average of Peak Amounts =				0.4889	
2	4.168	4.168	0.000	6273985H	0.5000	0.4871	
2	4.661	4.661	0.000	8593531H	0.5000	0.4886	
2	5.293	5.293	0.000	12866450H	0.5000	0.4997	
2	5.491	5.491	0.000	7825472H	0.5000	0.4836	
2	6.235	6.235	0.000	6701695H	0.5000	0.4966	
		Average of Peak Amounts =				0.4911	
						RPD = 0.45	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.796	6.796	0.000	16486970H	0.5000	0.4865	
1	7.296	7.296	0.000	23853706H	0.5000	0.4865	
1	8.555	8.555	0.000	15478885H	0.5000	0.4798	
1	9.129	9.129	0.000	37658243H	0.5000	0.4729	
1	9.607	9.607	0.000	20034522H	0.5000	0.4691	
		Average of Peak Amounts =				0.4790	
2	8.655	8.655	0.000	11700656H	0.5000	0.4913	
2	9.046	9.046	0.000	14037410H	0.5000	0.4728	
2	10.301	10.301	0.000	13073468H	0.5000	0.4826	
2	10.690	10.690	0.000	28221209H	0.5000	0.4686	
2	11.228	11.228	0.000	16335489H	0.5000	0.4634	
		Average of Peak Amounts =				0.4757	
						RPD = 0.68	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.290	11.290	0.000	20771872H	0.0250	0.0225	
2	12.798	12.798	0.000	13731047H	0.0250	0.0228	
						RPD = 1.56	

Reagents:

GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 09:32:36 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506121.D

Injection Date: 07-May-2015 05:22:53 Instrument ID: CHGC10

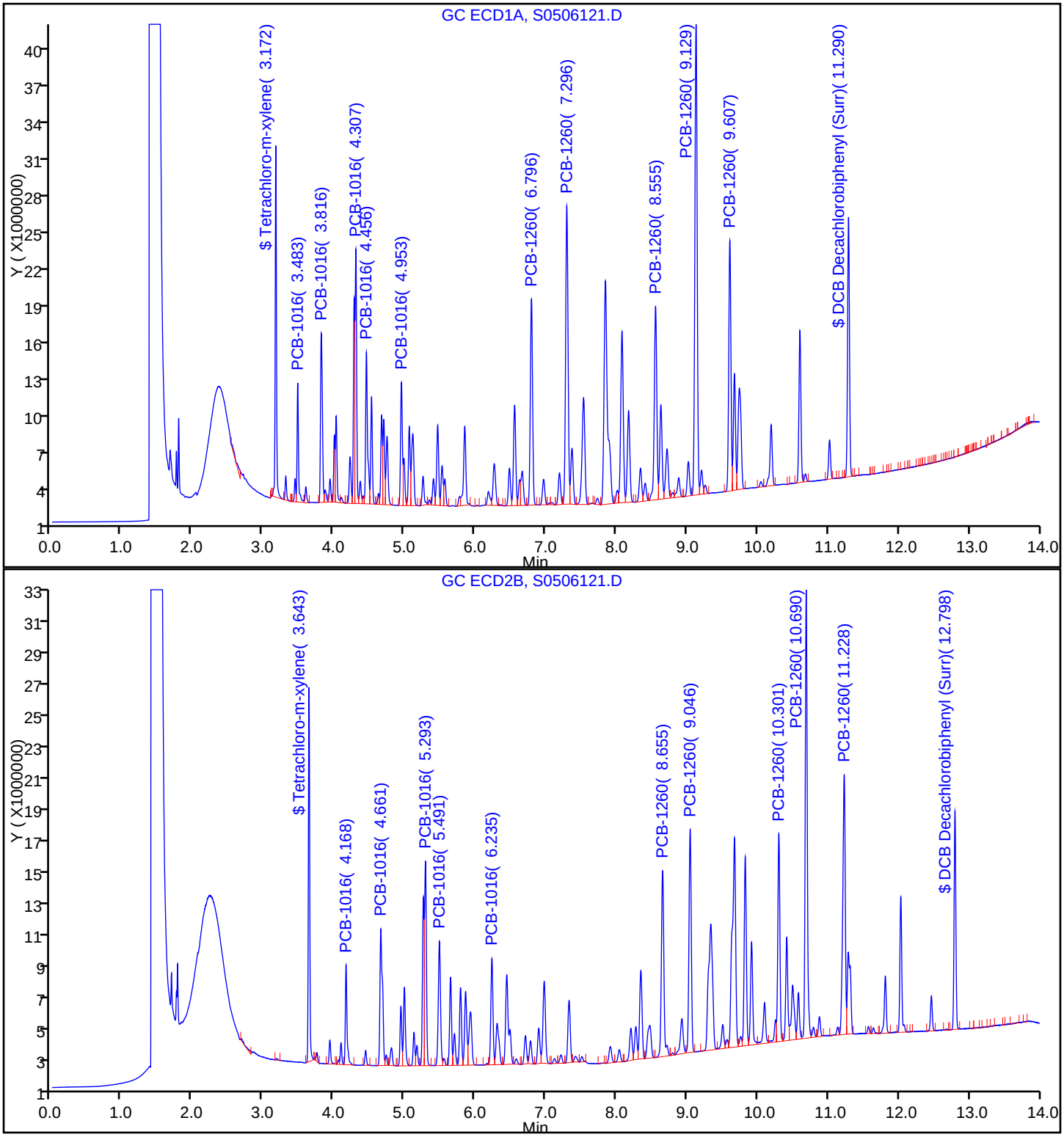
Lims ID: CCV

Client ID:

Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140736/21 Calibration Date: 05/07/2015 05:22

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506121.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	12879328	12547970		0.487	0.500	-2.6	20.0
PCB-1016 Peak 2	Ave	17589644	17187062		0.489	0.500	-2.3	20.0
PCB-1016 Peak 3	Ave	25747520	25732900		0.500	0.500	-0.0	20.0
PCB-1016 Peak 4	Ave	16180501	15650944		0.484	0.500	-3.3	20.0
PCB-1016 Peak 5	Ave	13495116	13403390		0.497	0.500	-0.7	20.0
PCB-1260 Peak 1	Ave	23817655	23401312		0.491	0.500	-1.7	20.0
PCB-1260 Peak 2	Ave	29690567	28074820		0.473	0.500	-5.4	20.0
PCB-1260 Peak 3	Ave	27090587	26146936		0.483	0.500	-3.5	20.0
PCB-1260 Peak 4	Ave	60220453	56442418		0.469	0.500	-6.3	20.0
PCB-1260 Peak 5	Ave	35252396	32670978		0.463	0.500	-7.3	20.0
Tetrachloro-m-xylene (Surr)	Ave	899522117	942317680		0.0262	0.0250	4.8	20.0
DCB Decachlorobiphenyl (Surr)	Ave	601015982	549241880		0.0228	0.0250	-8.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140736/21 Calibration Date: 05/07/2015 05:22

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506121.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.17	4.12	4.22
PCB-1016 Peak 2	4.66	4.61	4.71
PCB-1016 Peak 3	5.29	5.24	5.34
PCB-1016 Peak 4	5.49	5.44	5.54
PCB-1016 Peak 5	6.24	6.19	6.29
PCB-1260 Peak 1	8.66	8.61	8.71
PCB-1260 Peak 2	9.05	9.00	9.10
PCB-1260 Peak 3	10.30	10.25	10.35
PCB-1260 Peak 4	10.69	10.64	10.74
PCB-1260 Peak 5	11.23	11.18	11.28
Tetrachloro-m-xylene (Surr)	3.64	3.59	3.69
DCB Decachlorobiphenyl (Surr)	12.80	12.73	12.87

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506121.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 07-May-2015 05:22:53 ALS Bottle#: 1 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-021
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:36 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: oravecj Date: 07-May-2015 09:32:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.172	3.172	0.000	28108536H	0.0250	0.0271	
2	3.643	3.643	0.000	23557942H	0.0250	0.0262	
						RPD = 3.24	
3 PCB-1016							
1	3.483	3.483	0.000	9528179H	0.5000	0.4896	
1	3.816	3.816	0.000	13533225H	0.5000	0.4792	
1	4.307	4.307	0.000	20358432H	0.5000	0.4940	
1	4.456	4.456	0.000	12135148H	0.5000	0.4909	
1	4.953	4.953	0.000	9859251H	0.5000	0.4908	
		Average of Peak Amounts =				0.4889	
2	4.168	4.168	0.000	6273985H	0.5000	0.4871	
2	4.661	4.661	0.000	8593531H	0.5000	0.4886	
2	5.293	5.293	0.000	12866450H	0.5000	0.4997	
2	5.491	5.491	0.000	7825472H	0.5000	0.4836	
2	6.235	6.235	0.000	6701695H	0.5000	0.4966	
		Average of Peak Amounts =				0.4911	
						RPD = 0.45	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.796	6.796	0.000	16486970H	0.5000	0.4865	
1	7.296	7.296	0.000	23853706H	0.5000	0.4865	
1	8.555	8.555	0.000	15478885H	0.5000	0.4798	
1	9.129	9.129	0.000	37658243H	0.5000	0.4729	
1	9.607	9.607	0.000	20034522H	0.5000	0.4691	
		Average of Peak Amounts =				0.4790	
2	8.655	8.655	0.000	11700656H	0.5000	0.4913	
2	9.046	9.046	0.000	14037410H	0.5000	0.4728	
2	10.301	10.301	0.000	13073468H	0.5000	0.4826	
2	10.690	10.690	0.000	28221209H	0.5000	0.4686	
2	11.228	11.228	0.000	16335489H	0.5000	0.4634	
		Average of Peak Amounts =				0.4757	
						RPD = 0.68	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.290	11.290	0.000	20771872H	0.0250	0.0225	
2	12.798	12.798	0.000	13731047H	0.0250	0.0228	
						RPD = 1.56	

Reagents:

GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 09:32:37 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506121.D

Injection Date: 07-May-2015 05:22:53 Instrument ID: CHGC10

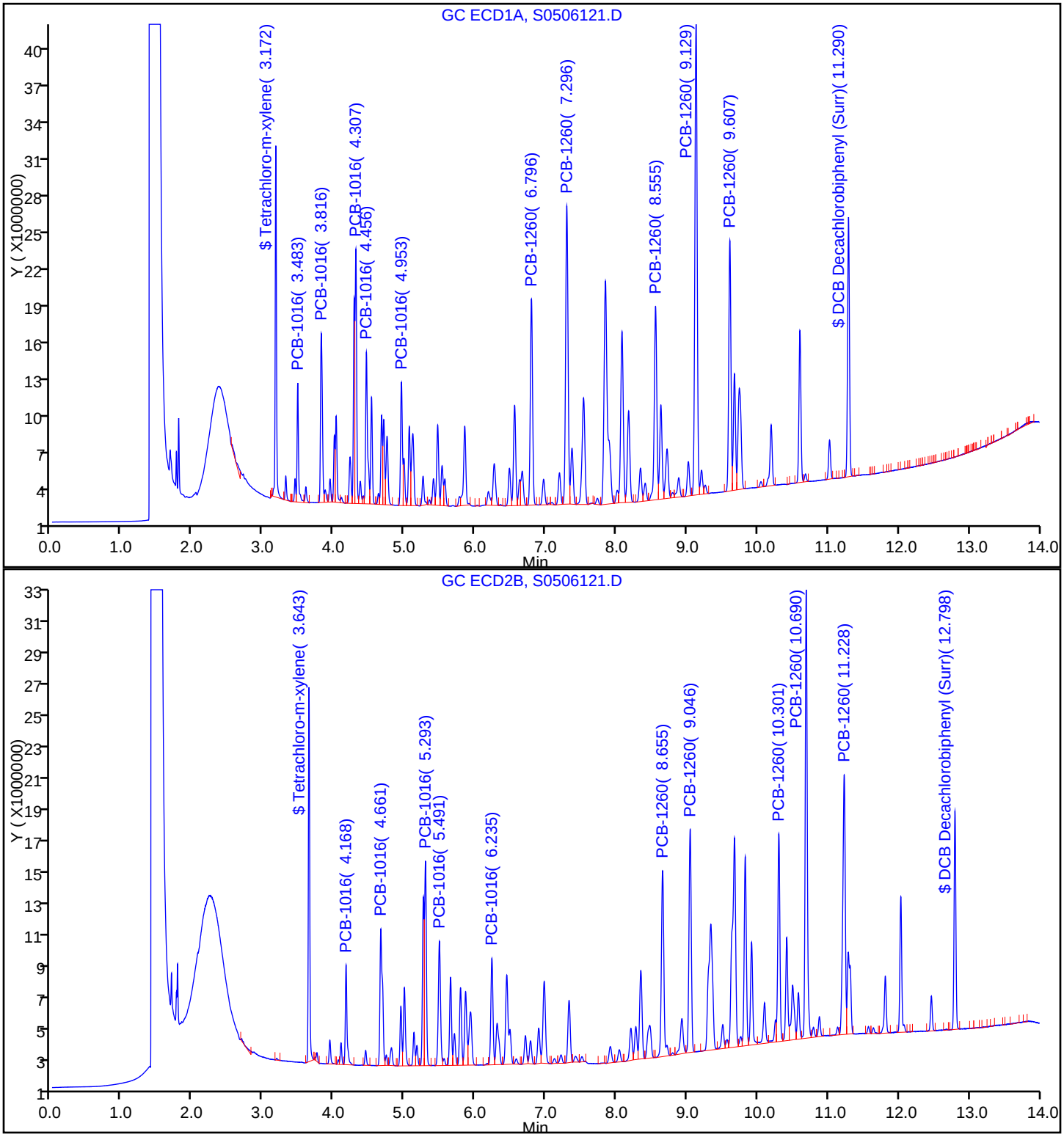
Lims ID: CCV

Client ID:

Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140736/30 Calibration Date: 05/07/2015 08:11

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506130.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	19461582	20098090		0.516	0.500	3.3	20.0
PCB-1016 Peak 2	Ave	28240270	28442124		0.504	0.500	0.7	20.0
PCB-1016 Peak 3	Ave	41210382	43157470		0.524	0.500	4.7	20.0
PCB-1016 Peak 4	Ave	24721701	25569526		0.517	0.500	3.4	20.0
PCB-1016 Peak 5	Ave	20087471	20370432		0.507	0.500	1.4	20.0
PCB-1260 Peak 1	Ave	33885801	34400460		0.508	0.500	1.5	20.0
PCB-1260 Peak 2	Ave	49036160	50994190		0.520	0.500	4.0	20.0
PCB-1260 Peak 3	Ave	32258885	33554322		0.520	0.500	4.0	20.0
PCB-1260 Peak 4	Ave	79638645	82741058		0.519	0.500	3.9	20.0
PCB-1260 Peak 5	Ave	42706505	44824276		0.525	0.500	5.0	20.0
Tetrachloro-m-xylene (Surr)	Ave	1039096011	1111168280		0.0267	0.0250	6.9	20.0
DCB Decachlorobiphenyl (Surr)	Ave	923474456	941050080		0.0255	0.0250	1.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140736/30 Calibration Date: 05/07/2015 08:11

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506130.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.49	3.44	3.54
PCB-1016 Peak 2	3.82	3.77	3.87
PCB-1016 Peak 3	4.31	4.26	4.36
PCB-1016 Peak 4	4.46	4.41	4.51
PCB-1016 Peak 5	4.95	4.90	5.00
PCB-1260 Peak 1	6.79	6.74	6.84
PCB-1260 Peak 2	7.29	7.24	7.34
PCB-1260 Peak 3	8.55	8.50	8.60
PCB-1260 Peak 4	9.12	9.07	9.17
PCB-1260 Peak 5	9.60	9.55	9.65
Tetrachloro-m-xylene (Surr)	3.18	3.13	3.23
DCB Decachlorobiphenyl (Surr)	11.29	11.22	11.36

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506130.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 07-May-2015 08:11:38 ALS Bottle#: 10 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-030
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:40 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.176	3.176	0.000	27779207H	0.0250	0.0267	
2	3.650	3.650	0.000	23194321H	0.0250	0.0258	
						RPD = 3.61	
3 PCB-1016							
1	3.486	3.486	0.000	10049045H	0.5000	0.5164	
1	3.819	3.819	0.000	14221062H	0.5000	0.5036	
1	4.307	4.307	0.000	21578735H	0.5000	0.5236	
1	4.457	4.457	0.000	12784763H	0.5000	0.5171	
1	4.952	4.952	0.000	10185216H	0.5000	0.5070	
		Average of Peak Amounts =				0.5135	
2	4.175	4.175	0.000	6594299H	0.5000	0.5120	
2	4.667	4.667	0.000	8929409H	0.5000	0.5077	
2	5.300	5.300	0.000	13519128H	0.5000	0.5251	
2	5.497	5.497	0.000	8137838H	0.5000	0.5029	
2	6.242	6.242	0.000	6989424H	0.5000	0.5179	
		Average of Peak Amounts =				0.5131	
						RPD = 0.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.792	6.792	0.000	17200230H	0.5000	0.5076	
1	7.292	7.292	0.000	25497095H	0.5000	0.5200	
1	8.549	8.549	0.000	16777161H	0.5000	0.5201	
1	9.124	9.124	0.000	41370529H	0.5000	0.5195	
1	9.603	9.603	0.000	22412138H	0.5000	0.5248	
		Average of Peak Amounts =				0.5184	
2	8.661	8.661	0.000	12111019H	0.5000	0.5085	
2	9.050	9.050	0.000	14912800H	0.5000	0.5023	
2	10.306	10.306	0.000	13657064H	0.5000	0.5041	
2	10.693	10.693	0.000	30202081H	0.5000	0.5015	
2	11.232	11.232	0.000	17665587H	0.5000	0.5011	
		Average of Peak Amounts =				0.5035	
						RPD = 2.91	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.285	11.285	0.000	23526252H	0.0250	0.0255	
2	12.800	12.800	0.000	15163310H	0.0250	0.0252	
						RPD = 0.97	

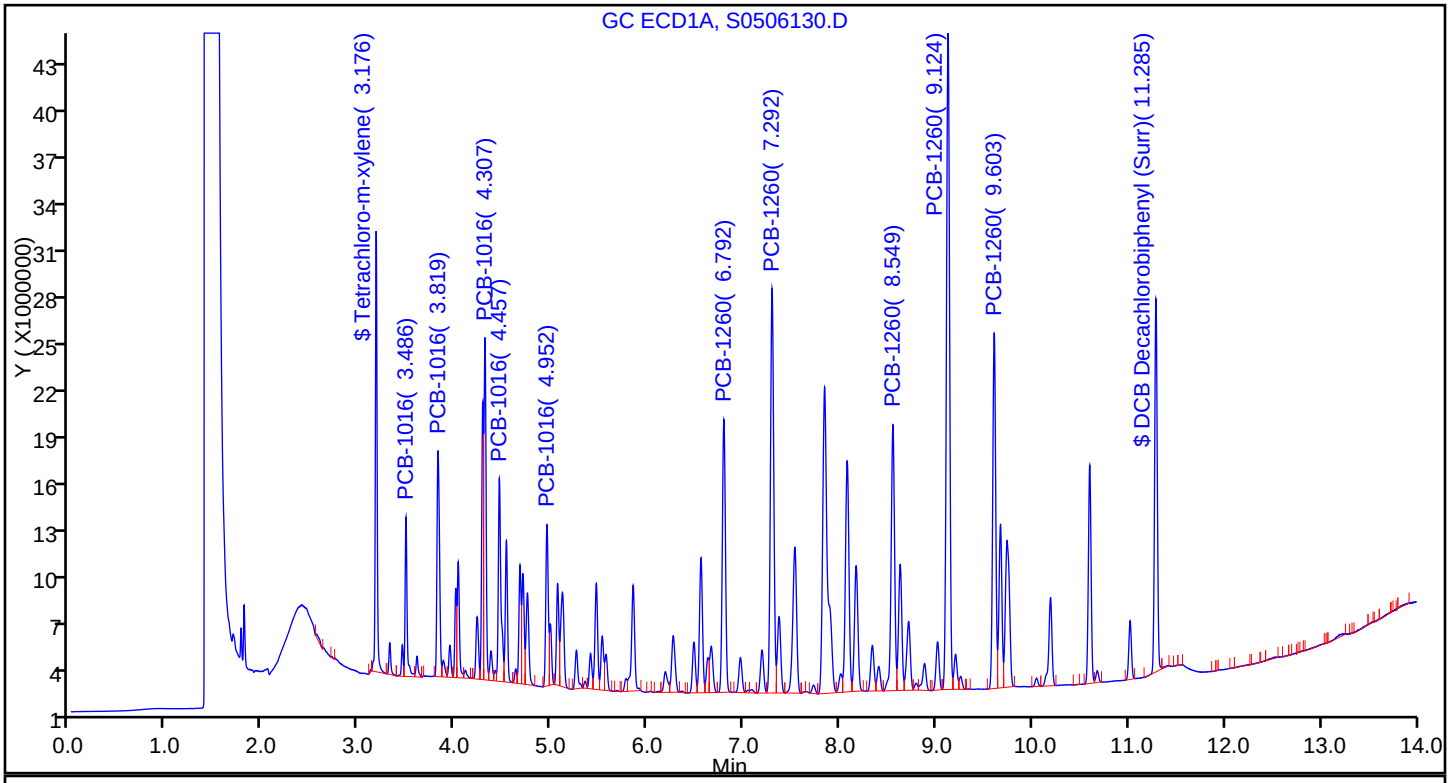
Reagents:

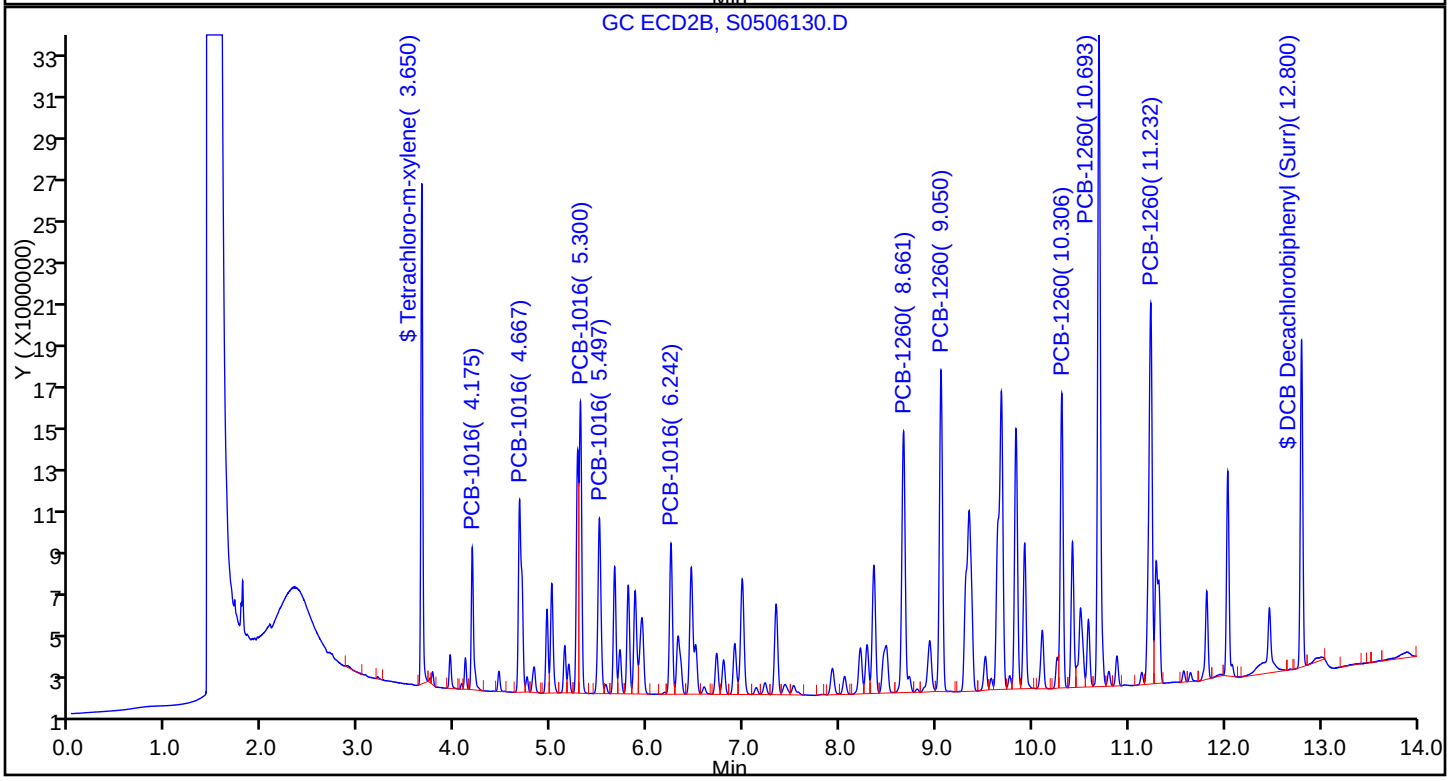
GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 09:32:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506130.D				
Injection Date:	07-May-2015 08:11:38	Instrument ID:	CHGC10		
Lims ID:	CCV				
Client ID:					
Operator ID:	402331	ALS Bottle#:	10	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140736/30 Calibration Date: 05/07/2015 08:11

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506130.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	12879328	13188598		0.512	0.500	2.4	20.0
PCB-1016 Peak 2	Ave	17589644	17858818		0.508	0.500	1.5	20.0
PCB-1016 Peak 3	Ave	25747520	27038256		0.525	0.500	5.0	20.0
PCB-1016 Peak 4	Ave	16180501	16275676		0.503	0.500	0.6	20.0
PCB-1016 Peak 5	Ave	13495116	13978848		0.518	0.500	3.6	20.0
PCB-1260 Peak 1	Ave	23817655	24222038		0.508	0.500	1.7	20.0
PCB-1260 Peak 2	Ave	29690567	29825600		0.502	0.500	0.5	20.0
PCB-1260 Peak 3	Ave	27090587	27314128		0.504	0.500	0.8	20.0
PCB-1260 Peak 4	Ave	60220453	60404162		0.502	0.500	0.3	20.0
PCB-1260 Peak 5	Ave	35252396	35331174		0.501	0.500	0.2	20.0
Tetrachloro-m-xylene (Surr)	Ave	899522117	927772840		0.0258	0.0250	3.1	20.0
DCB Decachlorobiphenyl (Surr)	Ave	601015982	606532400		0.0252	0.0250	0.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: CCV 180-140736/30 Calibration Date: 05/07/2015 08:11

Instrument ID: CHGC10 Calib Start Date: 05/06/2015 14:41

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 05/06/2015 16:34

Lab File ID: S0506130.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.18	4.13	4.23
PCB-1016 Peak 2	4.67	4.62	4.72
PCB-1016 Peak 3	5.30	5.25	5.35
PCB-1016 Peak 4	5.50	5.45	5.55
PCB-1016 Peak 5	6.24	6.19	6.29
PCB-1260 Peak 1	8.66	8.61	8.71
PCB-1260 Peak 2	9.05	9.00	9.10
PCB-1260 Peak 3	10.31	10.26	10.36
PCB-1260 Peak 4	10.69	10.64	10.74
PCB-1260 Peak 5	11.23	11.18	11.28
Tetrachloro-m-xylene (Surr)	3.65	3.60	3.70
DCB Decachlorobiphenyl (Surr)	12.80	12.73	12.87

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506130.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 07-May-2015 08:11:38 ALS Bottle#: 10 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-030
Operator ID: 402331 Instrument ID: CHGC10
Sublist: chrom-PCB_CHGC10DUAL*sub7

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:40 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.176	3.176	0.000	27779207H	0.0250	0.0267	
2	3.650	3.650	0.000	23194321H	0.0250	0.0258	
						RPD = 3.61	
3 PCB-1016							
1	3.486	3.486	0.000	10049045H	0.5000	0.5164	
1	3.819	3.819	0.000	14221062H	0.5000	0.5036	
1	4.307	4.307	0.000	21578735H	0.5000	0.5236	
1	4.457	4.457	0.000	12784763H	0.5000	0.5171	
1	4.952	4.952	0.000	10185216H	0.5000	0.5070	
		Average of Peak Amounts =				0.5135	
2	4.175	4.175	0.000	6594299H	0.5000	0.5120	
2	4.667	4.667	0.000	8929409H	0.5000	0.5077	
2	5.300	5.300	0.000	13519128H	0.5000	0.5251	
2	5.497	5.497	0.000	8137838H	0.5000	0.5029	
2	6.242	6.242	0.000	6989424H	0.5000	0.5179	
		Average of Peak Amounts =				0.5131	
						RPD = 0.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.792	6.792	0.000	17200230H	0.5000	0.5076	
1	7.292	7.292	0.000	25497095H	0.5000	0.5200	
1	8.549	8.549	0.000	16777161H	0.5000	0.5201	
1	9.124	9.124	0.000	41370529H	0.5000	0.5195	
1	9.603	9.603	0.000	22412138H	0.5000	0.5248	
		Average of Peak Amounts =				0.5184	
2	8.661	8.661	0.000	12111019H	0.5000	0.5085	
2	9.050	9.050	0.000	14912800H	0.5000	0.5023	
2	10.306	10.306	0.000	13657064H	0.5000	0.5041	
2	10.693	10.693	0.000	30202081H	0.5000	0.5015	
2	11.232	11.232	0.000	17665587H	0.5000	0.5011	
		Average of Peak Amounts =				0.5035	
						RPD = 2.91	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.285	11.285	0.000	23526252H	0.0250	0.0255	
2	12.800	12.800	0.000	15163310H	0.0250	0.0252	
						RPD = 0.97	

Reagents:

GCAR1660CALL4_00009 Amount Added: 1.00 Units: mL

Report Date: 07-May-2015 09:32:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506130.D

Injection Date: 07-May-2015 08:11:38 Instrument ID: CHGC10

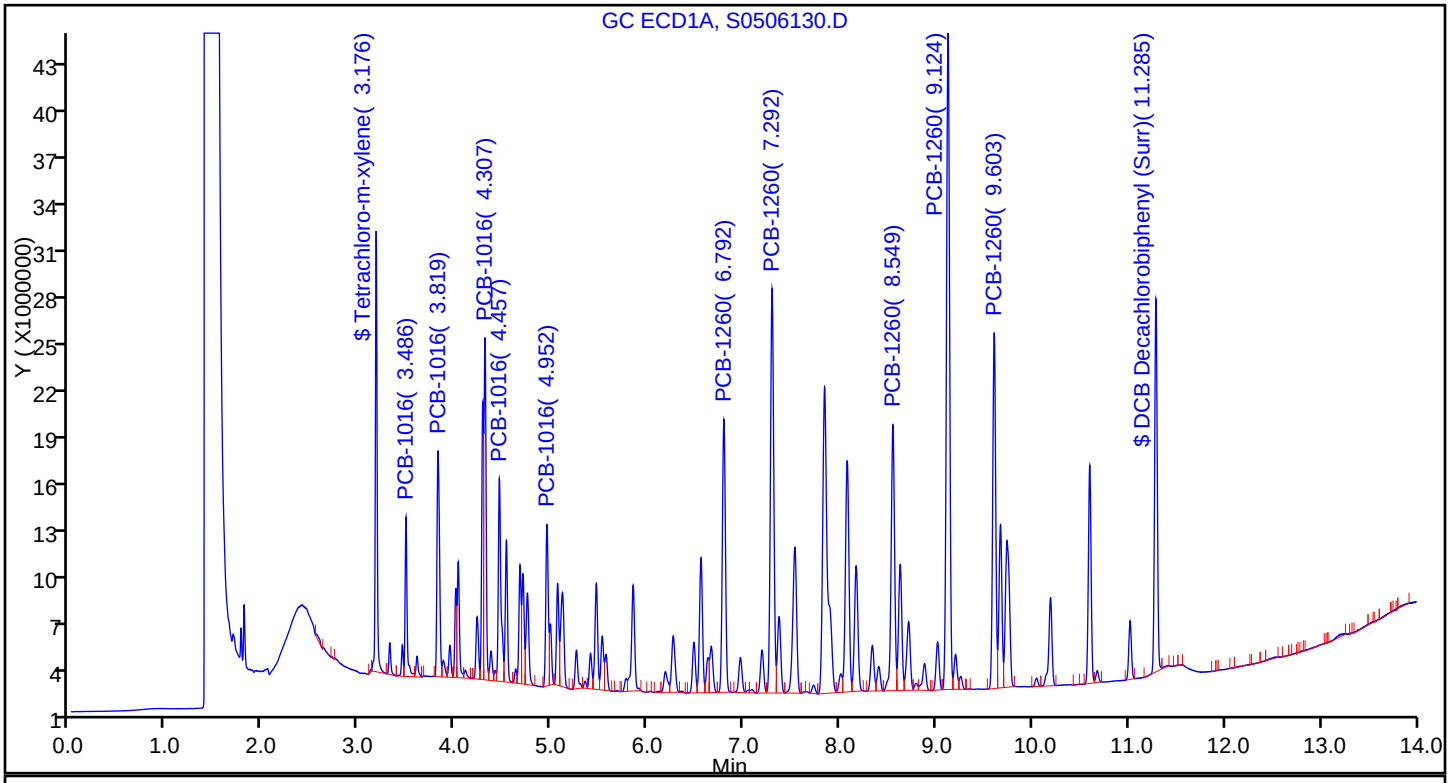
Lims ID: CCV

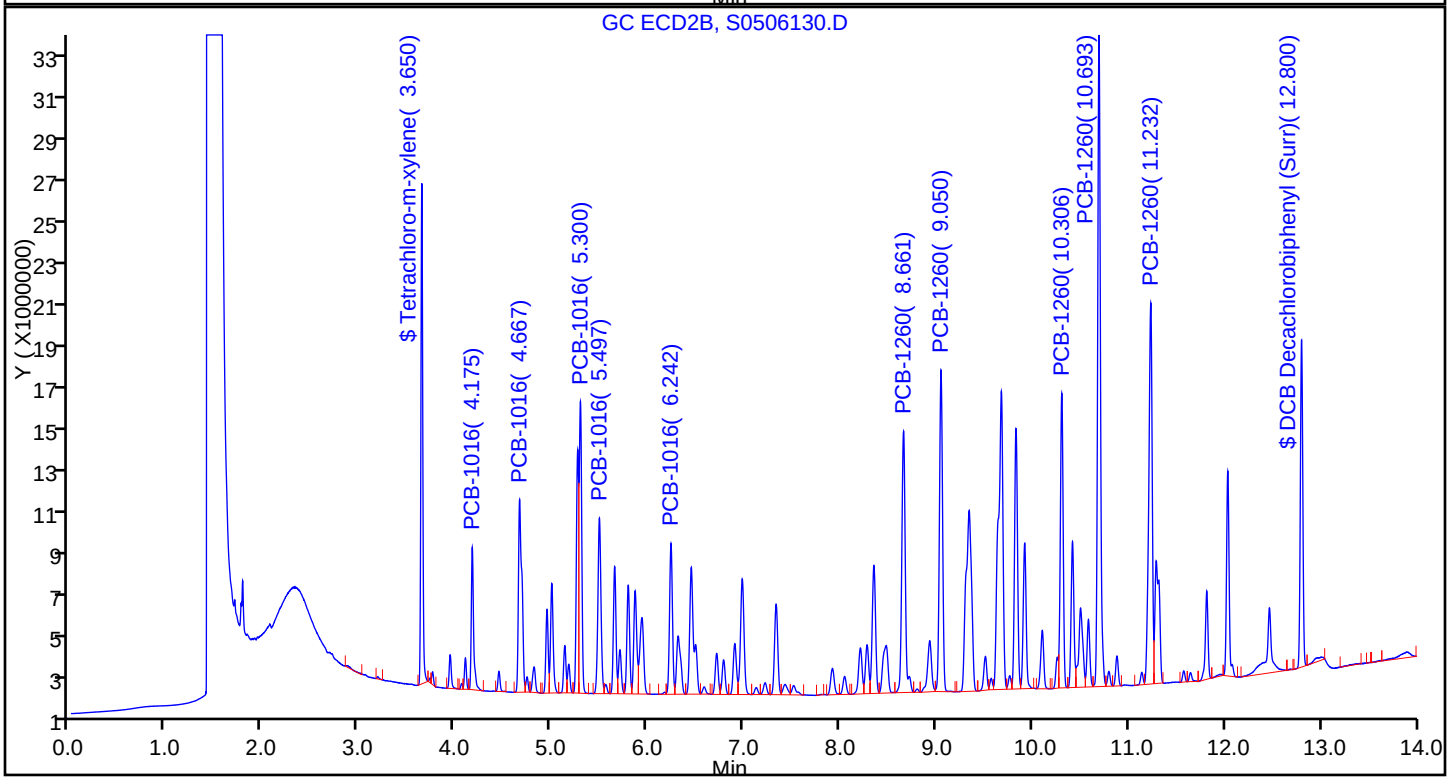
Client ID:

Operator ID: 402331 ALS Bottle#: 10 Worklist Smp#: 30

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-140615/1-A

Matrix: Water | Lab File ID: S0506007.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1000(mL) | Date Analyzed: 05/06/2015 08:22

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.010	0.0025
11104-28-2	PCB-1221	ND		0.010	0.0041
11141-16-5	PCB-1232	ND		0.010	0.0039
53469-21-9	PCB-1242	ND		0.010	0.0019
12672-29-6	PCB-1248	ND		0.010	0.0027
11097-69-1	PCB-1254	ND		0.010	0.0030
11096-82-5	PCB-1260	ND		0.010	0.0017

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	109		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	97		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506007.D
Lims ID: MB 180-140615/1-A
Client ID:
Sample Type: MB
Inject. Date: 06-May-2015 08:22:21 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-007
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.173	0.006	19906986H	0.0200	0.0194	
2	3.652	3.647	0.005	16958091H	0.0200	0.0216	
						RPD = 10.82	
4 PCB-1232							
1		3.315				ND	
1		3.483					
1		3.816					
1		4.305					
1		4.455					
2		3.940					
2		4.171					
2		4.664					
2		5.295					
2		5.493					
1 PCB-1221							
1		3.315				ND	
1		3.484					
1		2.743					
2		3.187					
2		3.942					
2		4.173					

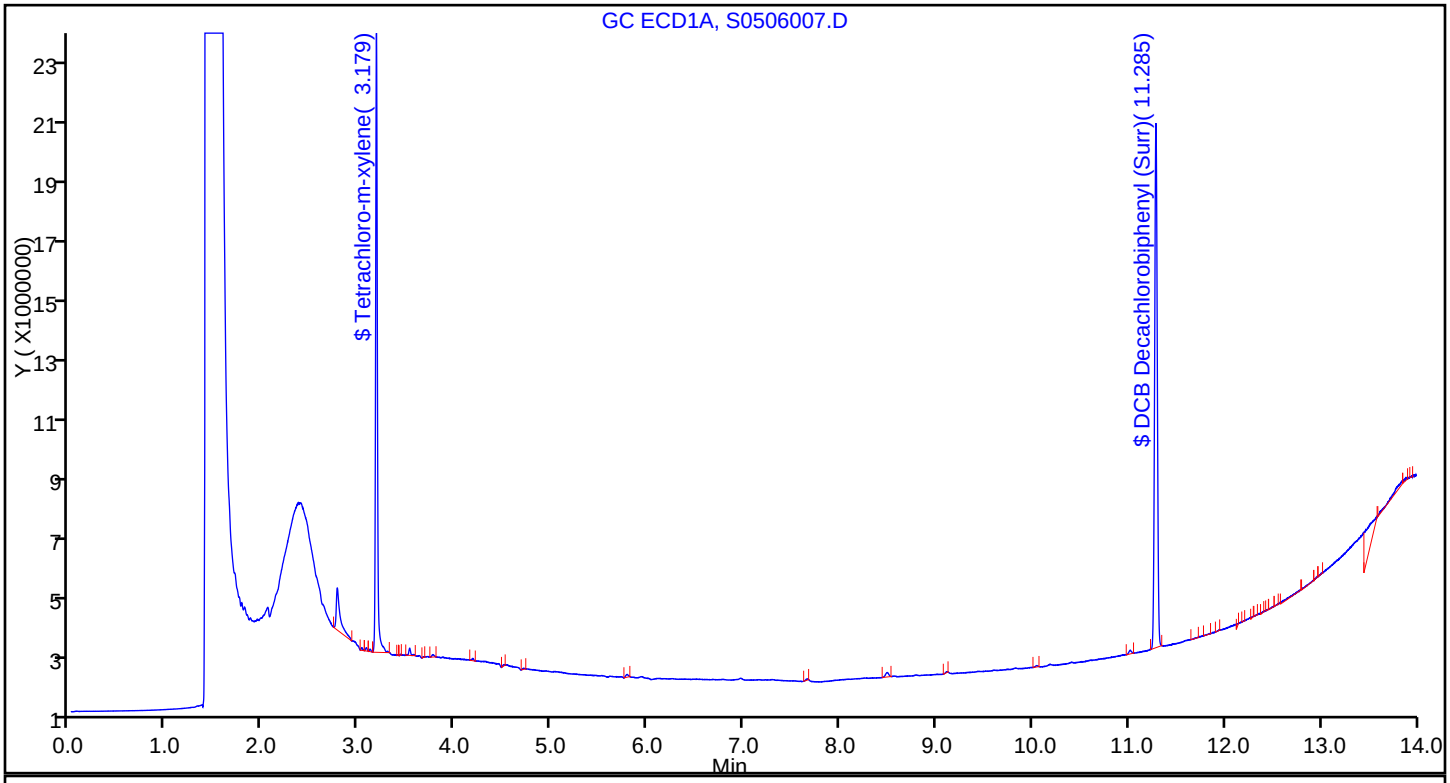
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
3 PCB-1016							
1		3.483				ND	
1		3.815					
1		4.303					
1		4.453					
1		4.948					
2		4.171					
2		4.663					
2		5.295					
2		5.493					
2		6.236					
5 PCB-1242							
1		3.815				ND	
1		4.304					
1		4.454					
1		4.948					
1		5.522					
2		4.171					
2		4.663					
2		5.295					
2		6.236					
2		6.986					
6 PCB-1248							
1		3.815				ND	
1		4.305					
1		4.949					
1		5.524					
1		5.564					
2		4.664					
2		5.793					
2		6.237					
2		6.986					
2		7.420					
7 PCB-1254							
1		5.464				ND	
1		5.847					
1		6.481					
1		7.294					
1		7.840					
2		6.980					
2		7.332					
2		8.278					
2		9.351					
2		9.677					

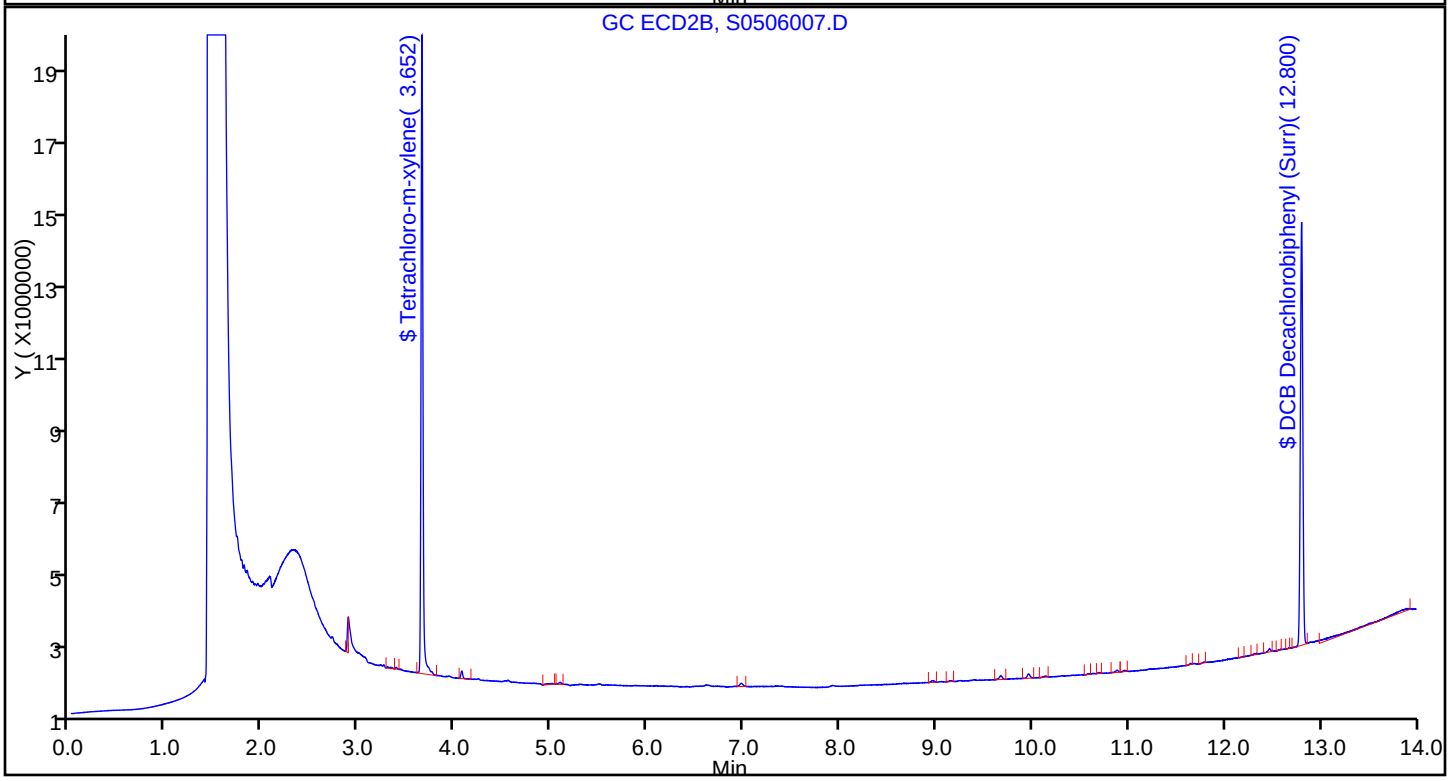
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1262							
1		6.789				ND	
1		7.290					
1		8.546					
1		9.120					
1		9.600					
2		9.045					
2		9.826					
2		10.690					
2		11.223					
2		12.030					
8 PCB-1260							
1		6.788				ND	
1		7.289					
1		8.546					
1		9.119					
1		9.599					
2		8.655					
2		9.046					
2		10.303					
2		10.690					
2		11.228					
10 PCB-1268							
1		9.666				ND	
1		10.041					
1		10.593					
1		11.014					
2		11.219					
2		11.285					
2		11.643					
2		12.465					
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.285	11.282	0.003	16860857H	0.0200	0.0218	
2	12.800	12.797	0.003	11236272H	0.0200	0.0251	
						RPD = 13.73	
41 1260 Res 2							
1		0.000				ND	
2		0.000					
42 1260 Res 3							
1		0.000				ND	
2		0.000					
43 1260 Res 1							
1		0.000				ND	
2		0.000					
44 1-Bromo-2-nitrobenzene							
1		0.000				ND	
2		0.000					

Report Date: 06-May-2015 11:42:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506007.D				
Injection Date:	06-May-2015 08:22:21	Instrument ID:	CHGC10		
Lims ID:	MB 180-140615/1-A				
Client ID:					
Operator ID:	402331	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-140615/1-A

Matrix: Water | Lab File ID: S0506007.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1000(mL) | Date Analyzed: 05/06/2015 08:22

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	125		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	108		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506007.D
Lims ID: MB 180-140615/1-A
Client ID:
Sample Type: MB
Inject. Date: 06-May-2015 08:22:21 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-007
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.173	0.006	19906986H	0.0200	0.0194	
2	3.652	3.647	0.005	16958091H	0.0200	0.0216	
						RPD = 10.82	
4 PCB-1232							
1		3.315				ND	
1		3.483					
1		3.816					
1		4.305					
1		4.455					
2		3.940					
2		4.171					
2		4.664					
2		5.295					
2		5.493					
1 PCB-1221							
1		3.315				ND	
1		3.484					
1		2.743					
2		3.187					
2		3.942					
2		4.173					

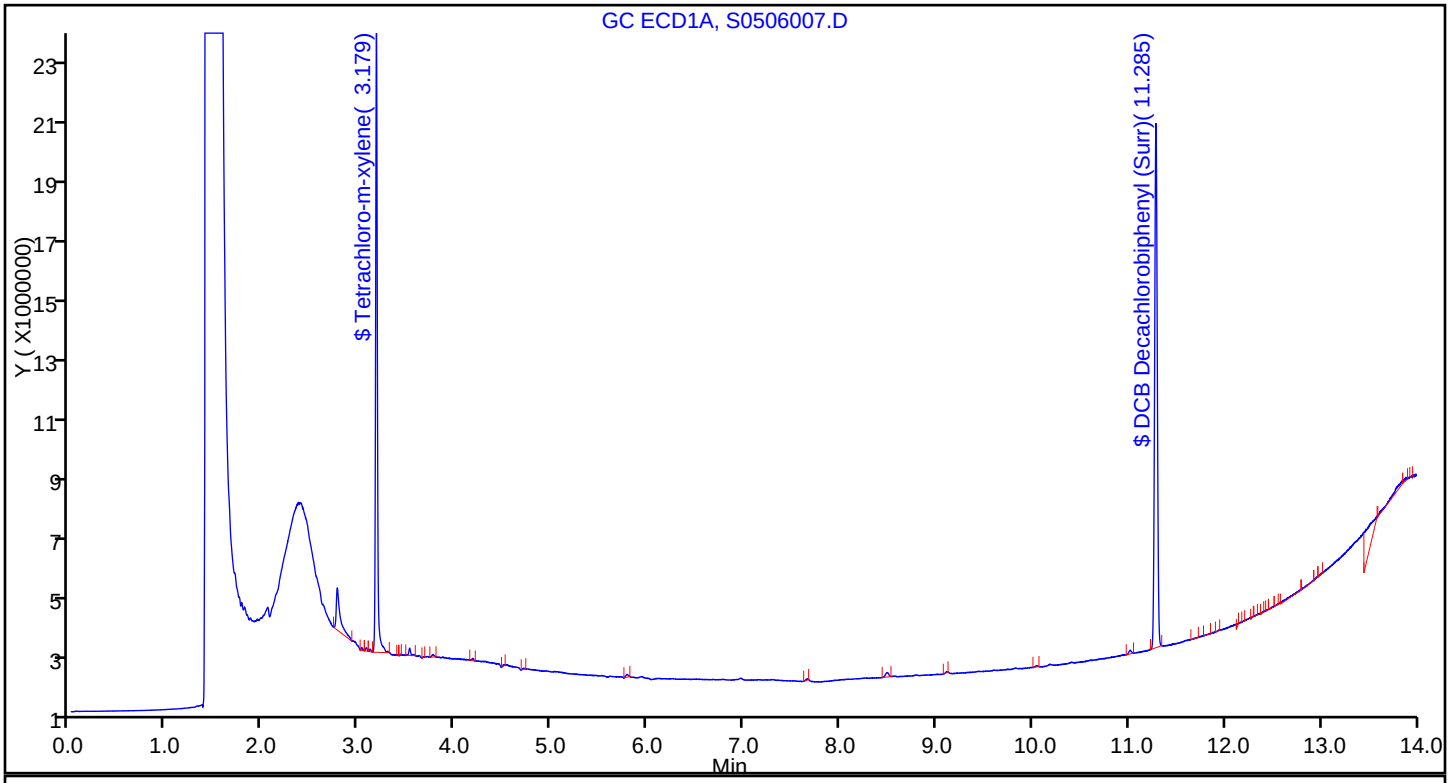
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
3 PCB-1016							
1		3.483				ND	
1		3.815					
1		4.303					
1		4.453					
1		4.948					
2		4.171					
2		4.663					
2		5.295					
2		5.493					
2		6.236					
5 PCB-1242							
1		3.815				ND	
1		4.304					
1		4.454					
1		4.948					
1		5.522					
2		4.171					
2		4.663					
2		5.295					
2		6.236					
2		6.986					
6 PCB-1248							
1		3.815				ND	
1		4.305					
1		4.949					
1		5.524					
1		5.564					
2		4.664					
2		5.793					
2		6.237					
2		6.986					
2		7.420					
7 PCB-1254							
1		5.464				ND	
1		5.847					
1		6.481					
1		7.294					
1		7.840					
2		6.980					
2		7.332					
2		8.278					
2		9.351					
2		9.677					

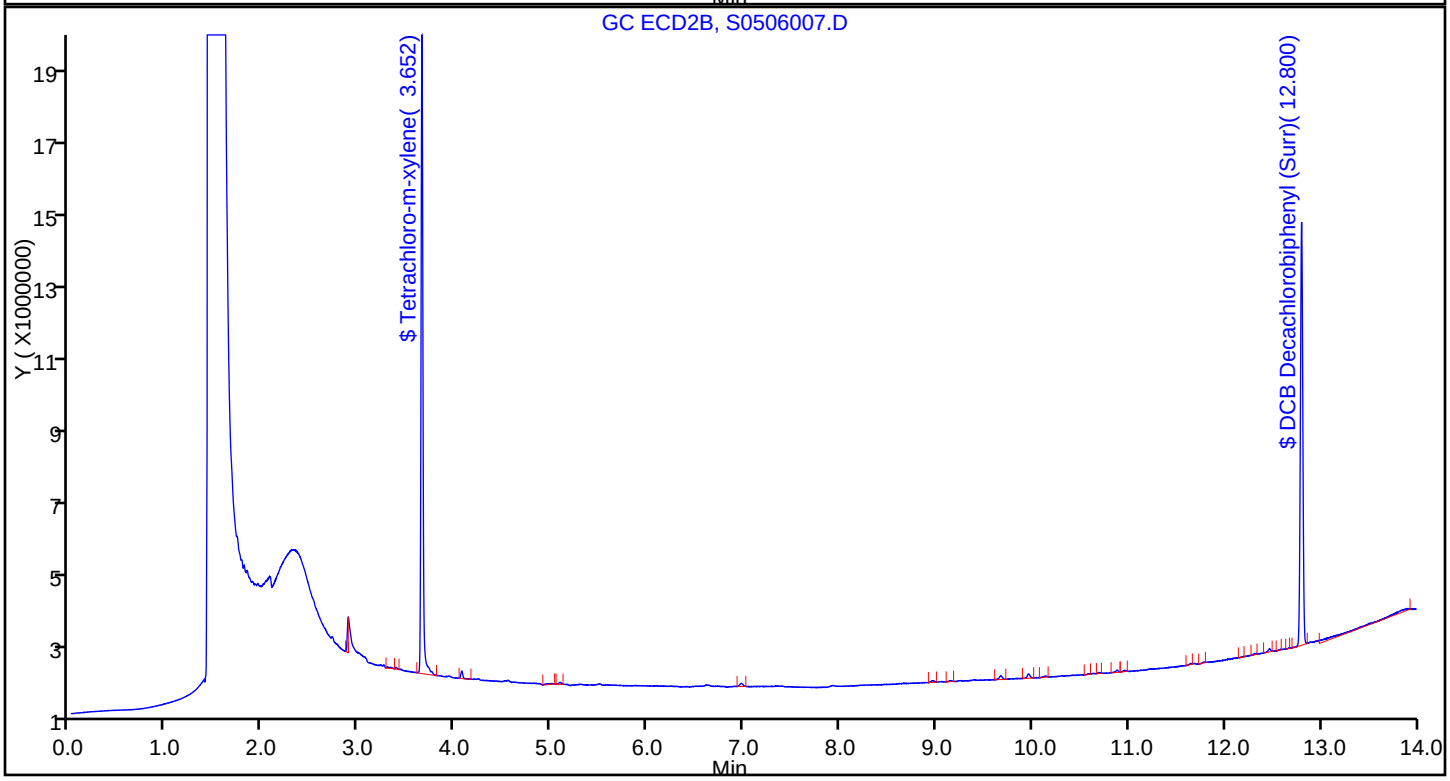
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1262							
1		6.789				ND	
1		7.290					
1		8.546					
1		9.120					
1		9.600					
2		9.045					
2		9.826					
2		10.690					
2		11.223					
2		12.030					
8 PCB-1260							
1		6.788				ND	
1		7.289					
1		8.546					
1		9.119					
1		9.599					
2		8.655					
2		9.046					
2		10.303					
2		10.690					
2		11.228					
10 PCB-1268							
1		9.666				ND	
1		10.041					
1		10.593					
1		11.014					
2		11.219					
2		11.285					
2		11.643					
2		12.465					
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.285	11.282	0.003	16860857H	0.0200	0.0218	
2	12.800	12.797	0.003	11236272H	0.0200	0.0251	
						RPD = 13.73	
41 1260 Res 2							
1		0.000				ND	
2		0.000					
42 1260 Res 3							
1		0.000				ND	
2		0.000					
43 1260 Res 1							
1		0.000				ND	
2		0.000					
44 1-Bromo-2-nitrobenzene							
1		0.000				ND	
2		0.000					

Report Date: 06-May-2015 11:42:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506007.D				
Injection Date:	06-May-2015 08:22:21	Instrument ID:	CHGC10		
Lims ID:	MB 180-140615/1-A				
Client ID:					
Operator ID:	402331	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-140781/1-A

Matrix: Water | Lab File ID: S0506122.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/06/2015 12:40

Sample wt/vol: 1000(mL) | Date Analyzed: 05/07/2015 05:41

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.010	0.0025
11104-28-2	PCB-1221	ND		0.010	0.0041
11141-16-5	PCB-1232	ND		0.010	0.0039
53469-21-9	PCB-1242	ND		0.010	0.0019
12672-29-6	PCB-1248	ND		0.010	0.0027
11097-69-1	PCB-1254	ND		0.010	0.0030
11096-82-5	PCB-1260	ND		0.010	0.0017

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	86		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	98		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506122.D
Lims ID: MB 180-140781/1-A
Client ID:
Sample Type: MB
Inject. Date: 07-May-2015 05:41:35 ALS Bottle#: 2 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-022
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:40 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.174	3.172	0.002	20370582H	0.0200	0.0196	
2	3.646	3.643	0.003	16773769H	0.0200	0.0186	
						RPD = 5.00	
1 PCB-1221							
1		3.316				ND	
1		3.485					
1		2.744					
2		3.189					
2		3.945					
2		4.175					
4 PCB-1232							
1		3.316				ND	
1		3.485					
1		3.819					
1		4.308					
1		4.457					
2		3.945					
2		4.175					
2		4.666					
2		5.299					
2		5.497					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
3 PCB-1016							
1		3.483				ND	
1		3.816					
1		4.307					
1		4.456					
1		4.953					
2		4.168					
2		4.661					
2		5.293					
2		5.491					
2		6.235					
5 PCB-1242							
1		3.818				ND	
1		4.308					
1		4.457					
1		4.952					
1		5.527					
2		4.175					
2		4.667					
2		5.300					
2		6.242					
2		6.991					
6 PCB-1248							
1		3.818				ND	
1		4.308					
1		4.953					
1		5.528					
1		5.568					
2		4.668					
2		5.798					
2		6.242					
2		6.991					
2		7.425					
7 PCB-1254							
1		5.466				ND	
1		5.849					
1		6.482					
1		7.296					
1		7.842					
2		6.982					
2		7.337					
2		8.283					
2		9.355					
2		9.681					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1262							
1		6.791				ND	
1		7.294					
1		8.550					
1		9.124					
1		9.604					
2		9.050					
2		9.831					
2		10.694					
2		11.226					
2		12.034					
8 PCB-1260							
1		6.796				ND	
1		7.296					
1		8.555					
1		9.129					
1		9.607					
2		8.655					
2		9.046					
2		10.301					
2		10.690					
2		11.228					
10 PCB-1268							
1		9.670				ND	
1		10.045					
1		10.597					
1		11.018					
2		11.222					
2		11.288					
2		11.646					
2		12.467					
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.286	11.290	-0.004	15878767H	0.0200	0.0172	
2	12.798	12.798	0.000	10653024H	0.0200	0.0177	
						RPD = 3.04	
41 1260 Res 2							
1		0.000				ND	
2		0.000					
42 1260 Res 3							
1		0.000				ND	
2		0.000					
43 1260 Res 1							
1		0.000				ND	
2		0.000					
44 1-Bromo-2-nitrobenzene							
1		0.000				ND	
2		0.000					

Report Date: 07-May-2015 09:32:57 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506122.D

Injection Date: 07-May-2015 05:41:35 Instrument ID: CHGC10

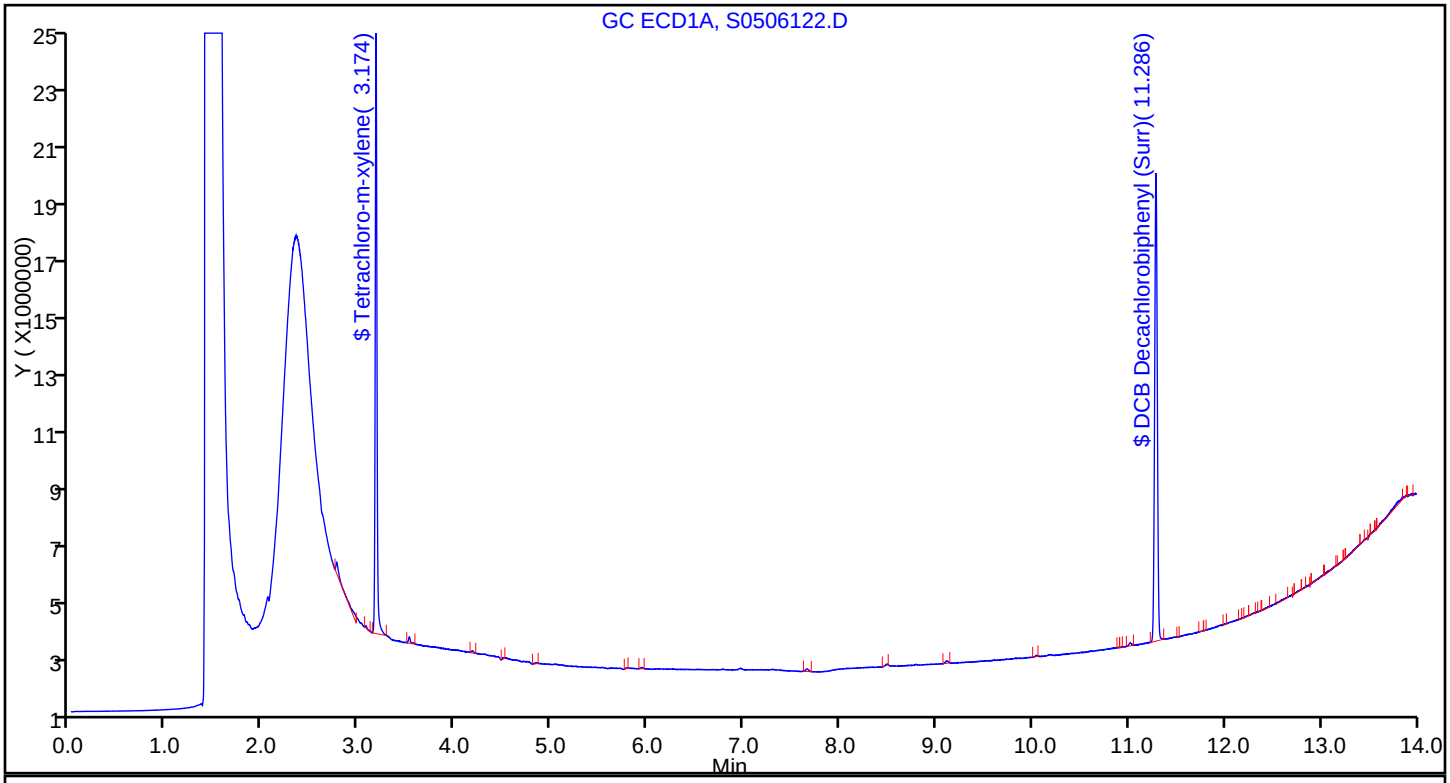
Lims ID: MB 180-140781/1-A

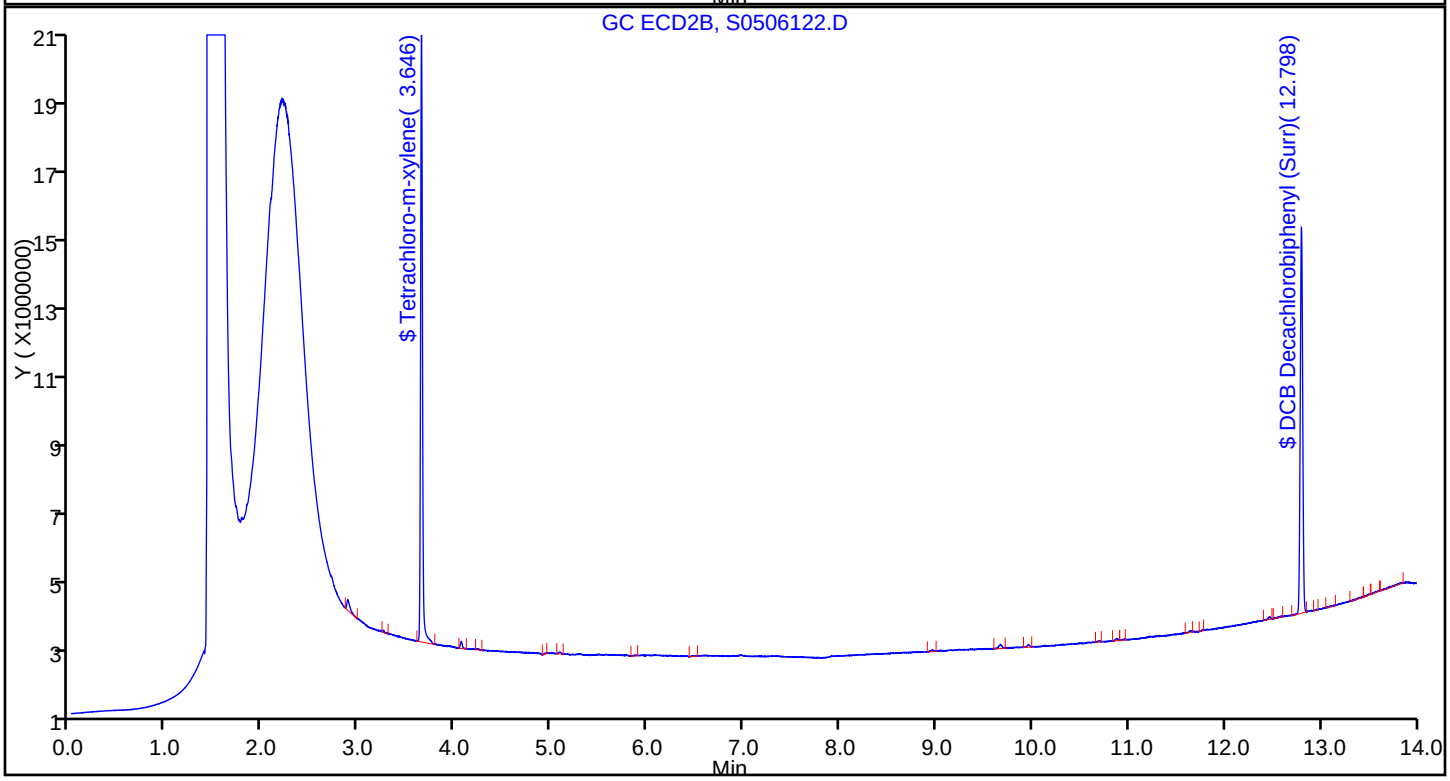
Client ID:

Operator ID: 402331 ALS Bottle#: 2 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-140781/1-A

Matrix: Water | Lab File ID: S0506122.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/06/2015 12:40

Sample wt/vol: 1000(mL) | Date Analyzed: 05/07/2015 05:41

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140736 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	89		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	93		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506122.D
Lims ID: MB 180-140781/1-A
Client ID:
Sample Type: MB
Inject. Date: 07-May-2015 05:41:35 ALS Bottle#: 2 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-022
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:40 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.174	3.172	0.002	20370582H	0.0200	0.0196	
2	3.646	3.643	0.003	16773769H	0.0200	0.0186	
						RPD = 5.00	
1 PCB-1221							
1		3.316				ND	
1		3.485					
1		2.744					
2		3.189					
2		3.945					
2		4.175					
4 PCB-1232							
1		3.316				ND	
1		3.485					
1		3.819					
1		4.308					
1		4.457					
2		3.945					
2		4.175					
2		4.666					
2		5.299					
2		5.497					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
3 PCB-1016							
1		3.483				ND	
1		3.816					
1		4.307					
1		4.456					
1		4.953					
2		4.168					
2		4.661					
2		5.293					
2		5.491					
2		6.235					
5 PCB-1242							
1		3.818				ND	
1		4.308					
1		4.457					
1		4.952					
1		5.527					
2		4.175					
2		4.667					
2		5.300					
2		6.242					
2		6.991					
6 PCB-1248							
1		3.818				ND	
1		4.308					
1		4.953					
1		5.528					
1		5.568					
2		4.668					
2		5.798					
2		6.242					
2		6.991					
2		7.425					
7 PCB-1254							
1		5.466				ND	
1		5.849					
1		6.482					
1		7.296					
1		7.842					
2		6.982					
2		7.337					
2		8.283					
2		9.355					
2		9.681					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1262							
1		6.791				ND	
1		7.294					
1		8.550					
1		9.124					
1		9.604					
2		9.050					
2		9.831					
2		10.694					
2		11.226					
2		12.034					
8 PCB-1260							
1		6.796				ND	
1		7.296					
1		8.555					
1		9.129					
1		9.607					
2		8.655					
2		9.046					
2		10.301					
2		10.690					
2		11.228					
10 PCB-1268							
1		9.670				ND	
1		10.045					
1		10.597					
1		11.018					
2		11.222					
2		11.288					
2		11.646					
2		12.467					
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.286	11.290	-0.004	15878767H	0.0200	0.0172	
2	12.798	12.798	0.000	10653024H	0.0200	0.0177	
						RPD = 3.04	
41 1260 Res 2							
1		0.000				ND	
2		0.000					
42 1260 Res 3							
1		0.000				ND	
2		0.000					
43 1260 Res 1							
1		0.000				ND	
2		0.000					
44 1-Bromo-2-nitrobenzene							
1		0.000				ND	
2		0.000					

Report Date: 07-May-2015 09:32:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506122.D

Injection Date: 07-May-2015 05:41:35 Instrument ID: CHGC10

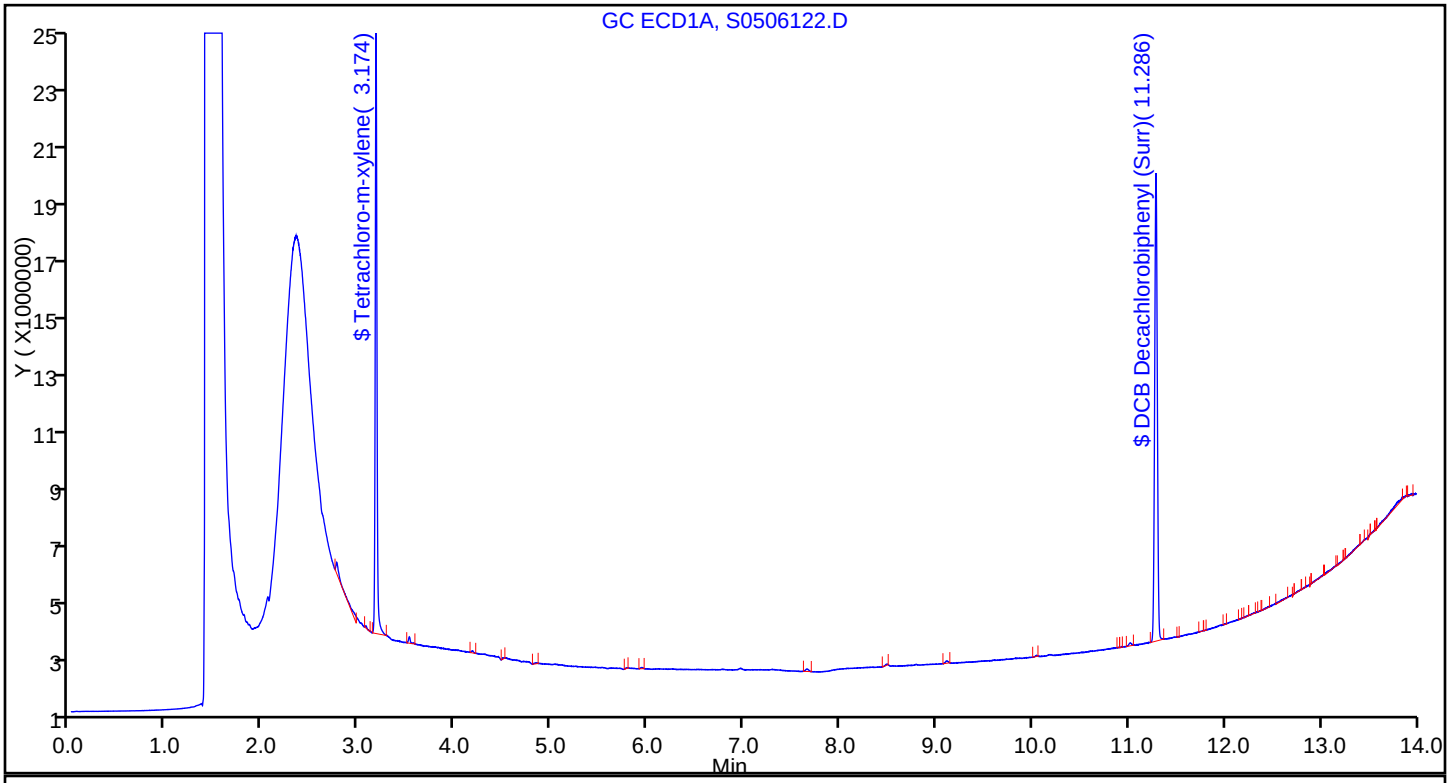
Lims ID: MB 180-140781/1-A

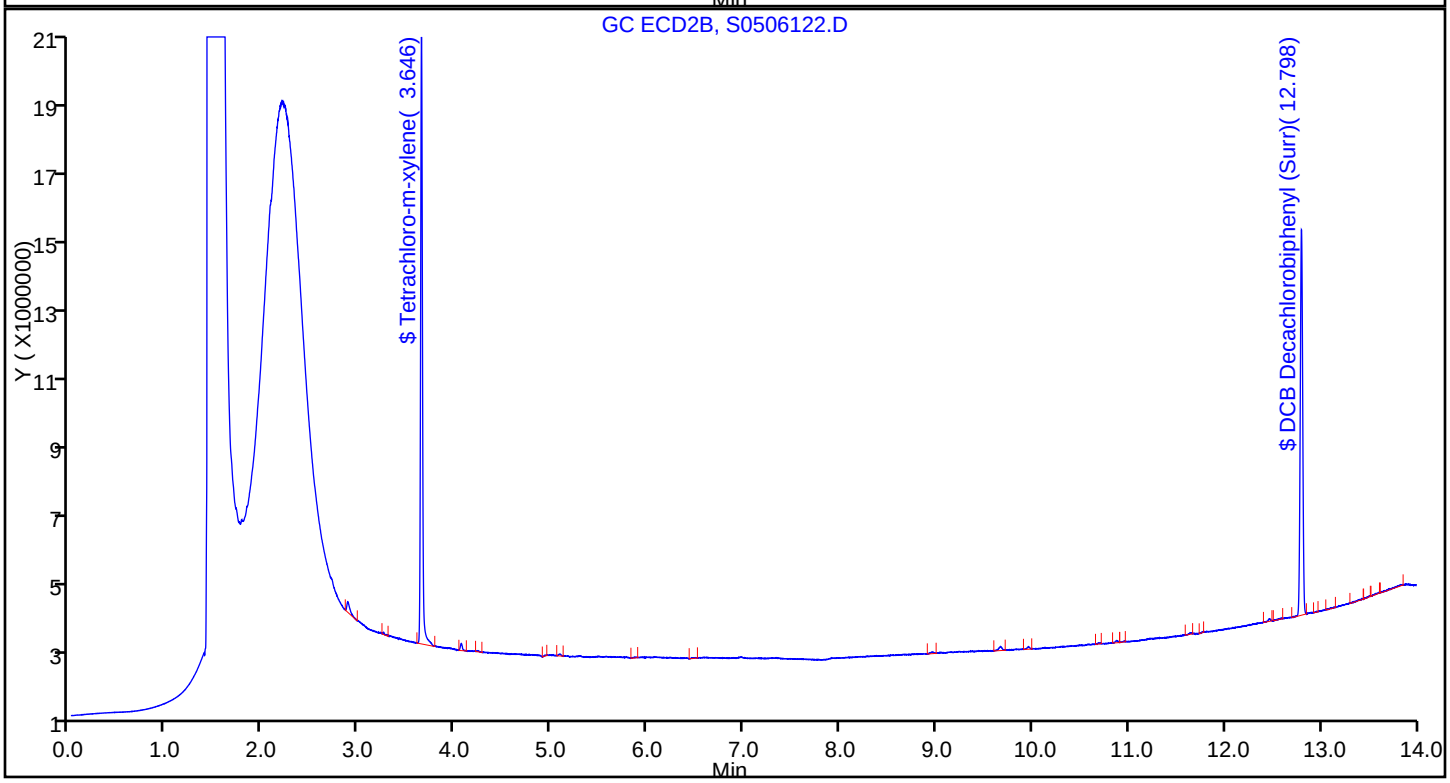
Client ID:

Operator ID: 402331 ALS Bottle#: 2 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-140615/4-A

Matrix: Water | Lab File ID: S0506014.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1000(mL) | Date Analyzed: 05/06/2015 10:33

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	134		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	109		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506014.D
Lims ID: LCS 180-140615/4-A
Client ID:
Sample Type: LCS
Inject. Date: 06-May-2015 10:33:37 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-014
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

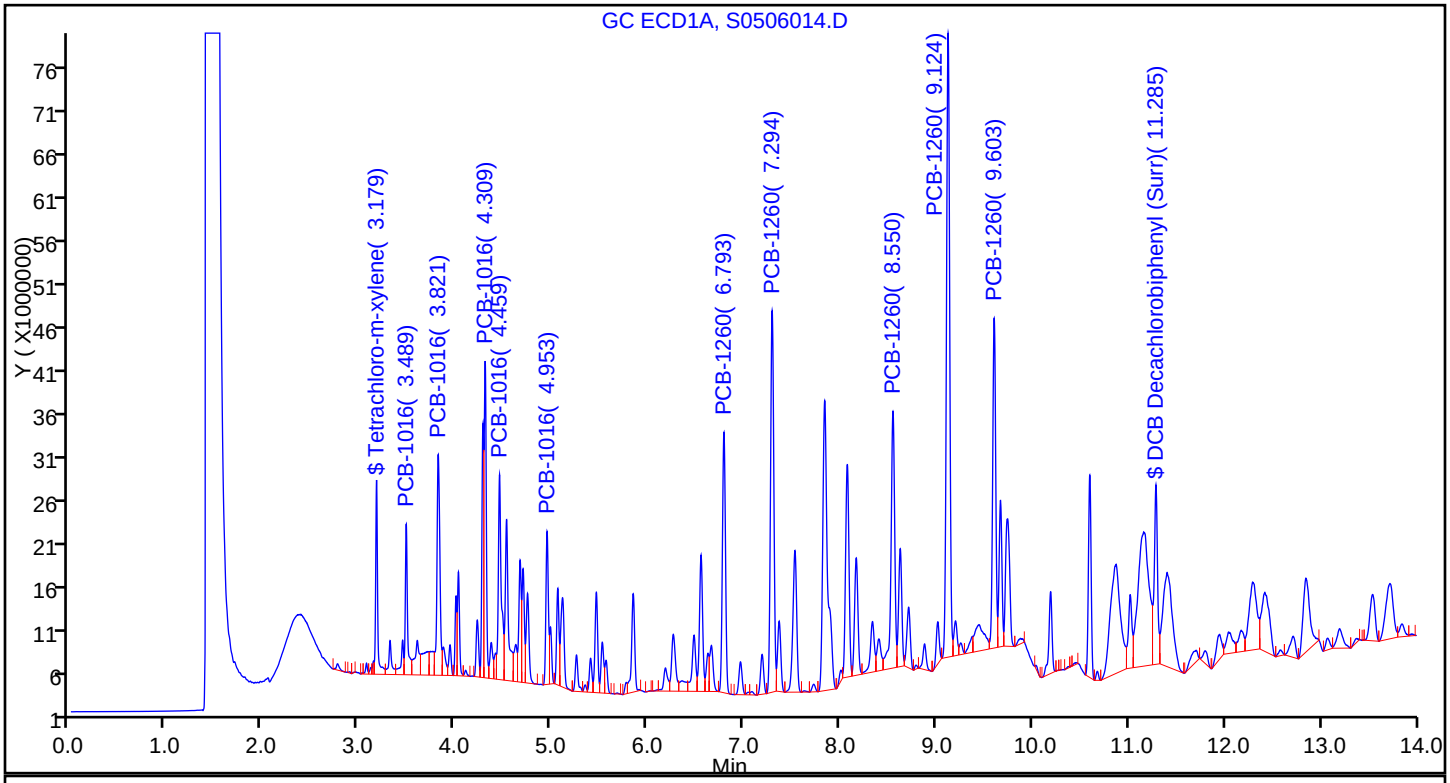
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.173	0.006	22381636H	0.0200	0.0218	
2	3.652	3.647	0.005	17743806H	0.0200	0.0226	
						RPD = 3.64	
3 PCB-1016							
1	3.489	3.483	0.006	17363483H	1.00	0.9838	
1	3.821	3.815	0.006	25440954H	1.00	0.9688	
1	4.309	4.303	0.006	36509003H	1.00	0.9597	
1	4.459	4.453	0.006	23599291H	1.00	1.05	
1	4.953	4.948	0.005	17631296H	1.00	0.9249	
		Average of Peak Amounts =				0.9768	
2	4.177	4.171	0.006	11075072H	1.00	1.06	
2	4.669	4.663	0.006	14794622H	1.00	1.02	
2	5.300	5.295	0.005	23309196H	1.00	1.11	
2	5.498	5.493	0.005	14038631H	1.00	1.06	
2	6.241	6.236	0.005	11962400H	1.00	1.07	
		Average of Peak Amounts =				1.07	
						RPD = 8.84	

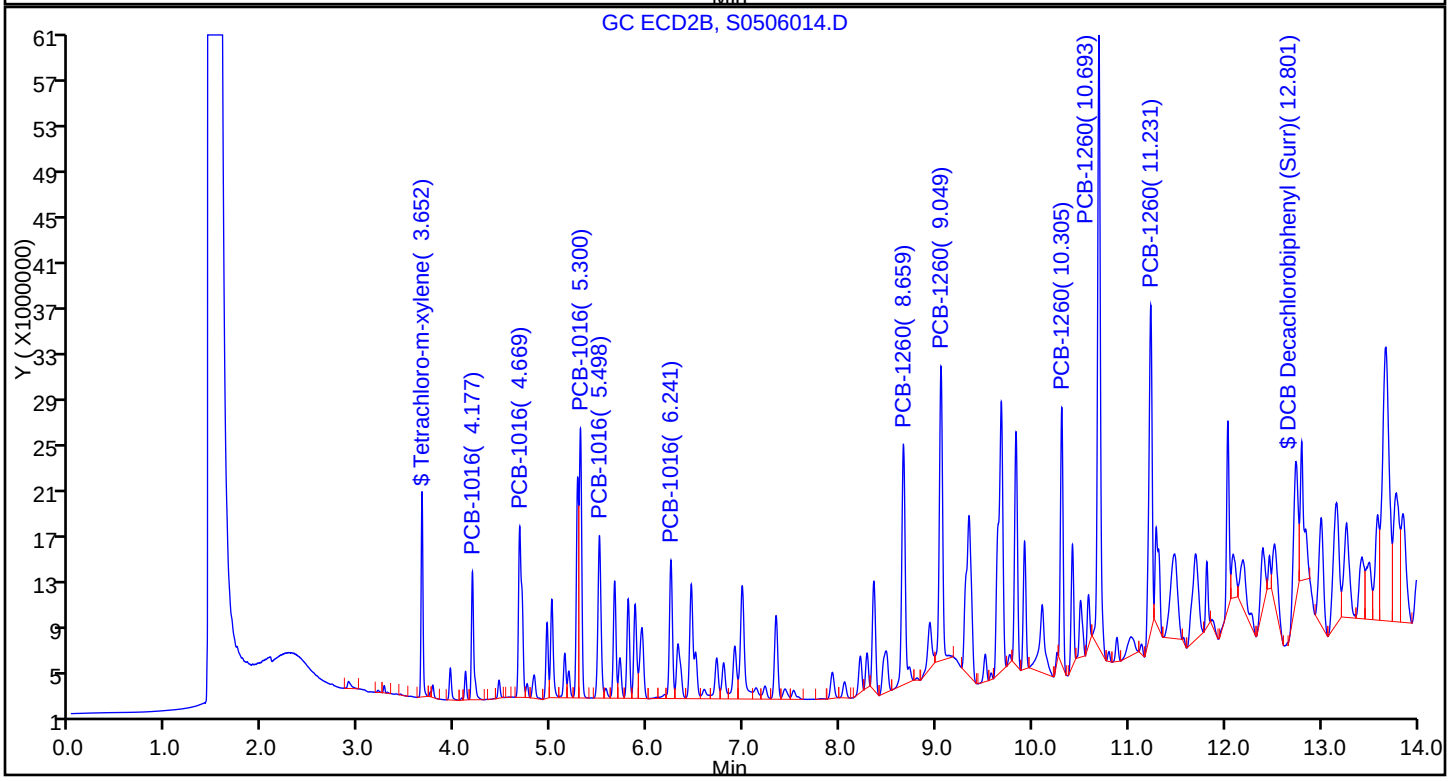
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.793	6.788	0.005	30013554H	1.00	0.9404	
1	7.294	7.289	0.005	43969275H	1.00	0.9653	
1	8.550	8.546	0.004	29586793H	1.00	1.01	
1	9.124	9.119	0.005	71909439H	1.00	1.03	
1	9.603	9.599	0.004	38014834H	1.00	1.03	
		Average of Peak Amounts =				0.99	
2	8.659	8.655	0.004	20771921H	1.00	1.06	
2	9.049	9.046	0.003	25441773H	1.00	1.06	
2	10.305	10.303	0.002	22220252H	1.00	1.04	
2	10.693	10.690	0.003	53017191H	1.00	1.13	
2	11.231	11.228	0.003	28257763H	1.00	1.06	
		Average of Peak Amounts =				1.07	
						RPD = 7.10	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.285	11.282	0.003	20690097H	0.0200	0.0268	
2	12.801	12.797	0.004	11999744H	0.0200	0.0268	
						RPD = 0.14	

Report Date: 06-May-2015 11:42:27 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506014.D				
Injection Date:	06-May-2015 10:33:37	Instrument ID:	CHGC10		
Lims ID:	LCS 180-140615/4-A				
Client ID:					
Operator ID:	402331	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





Report Date: 06-May-2015 11:42:27 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506014.D

Injection Date: 06-May-2015 10:33:37 Instrument ID: CHGC10

Lims ID: LCS 180-140615/4-A

Client ID:

Operator ID: 402331 ALS Bottle#: 14 Worklist Smp#: 14

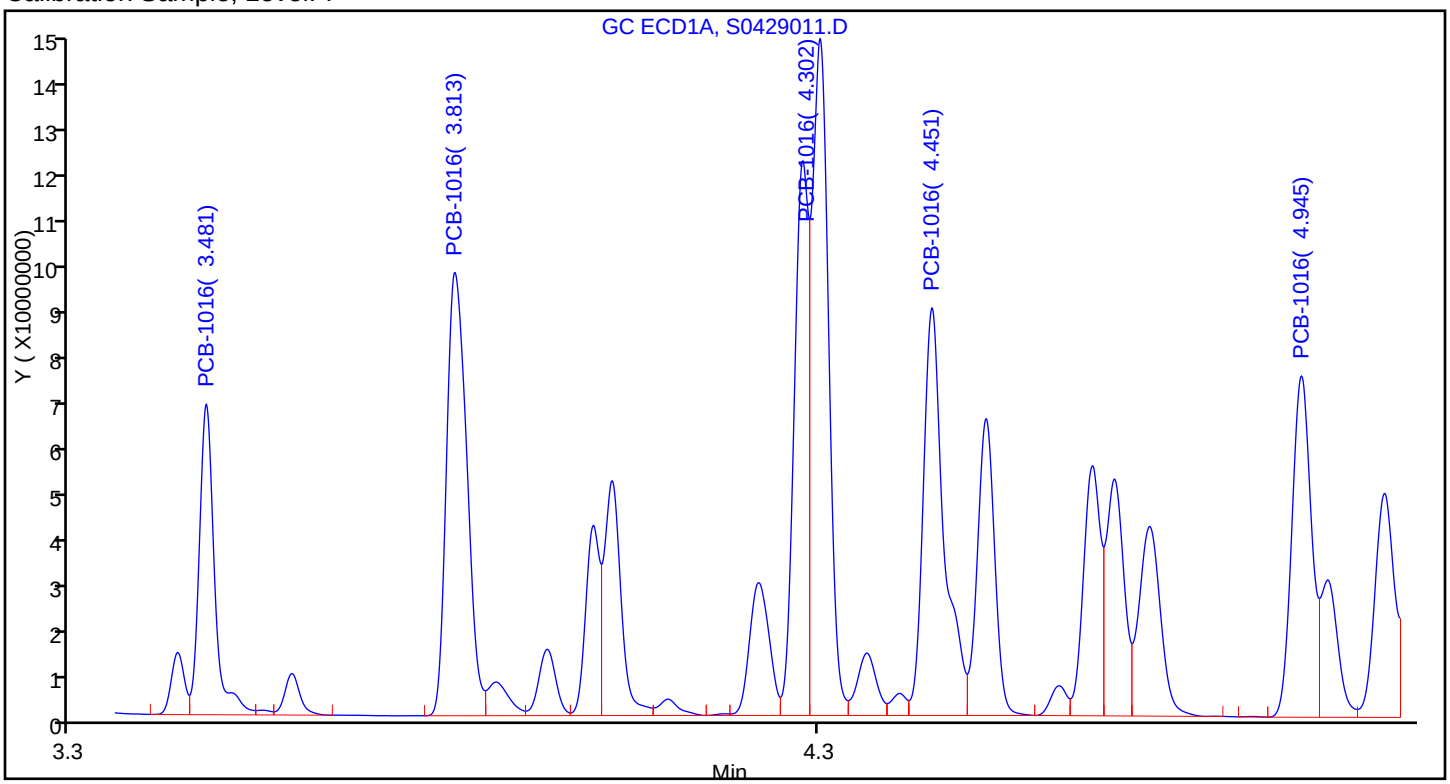
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD1A

3 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



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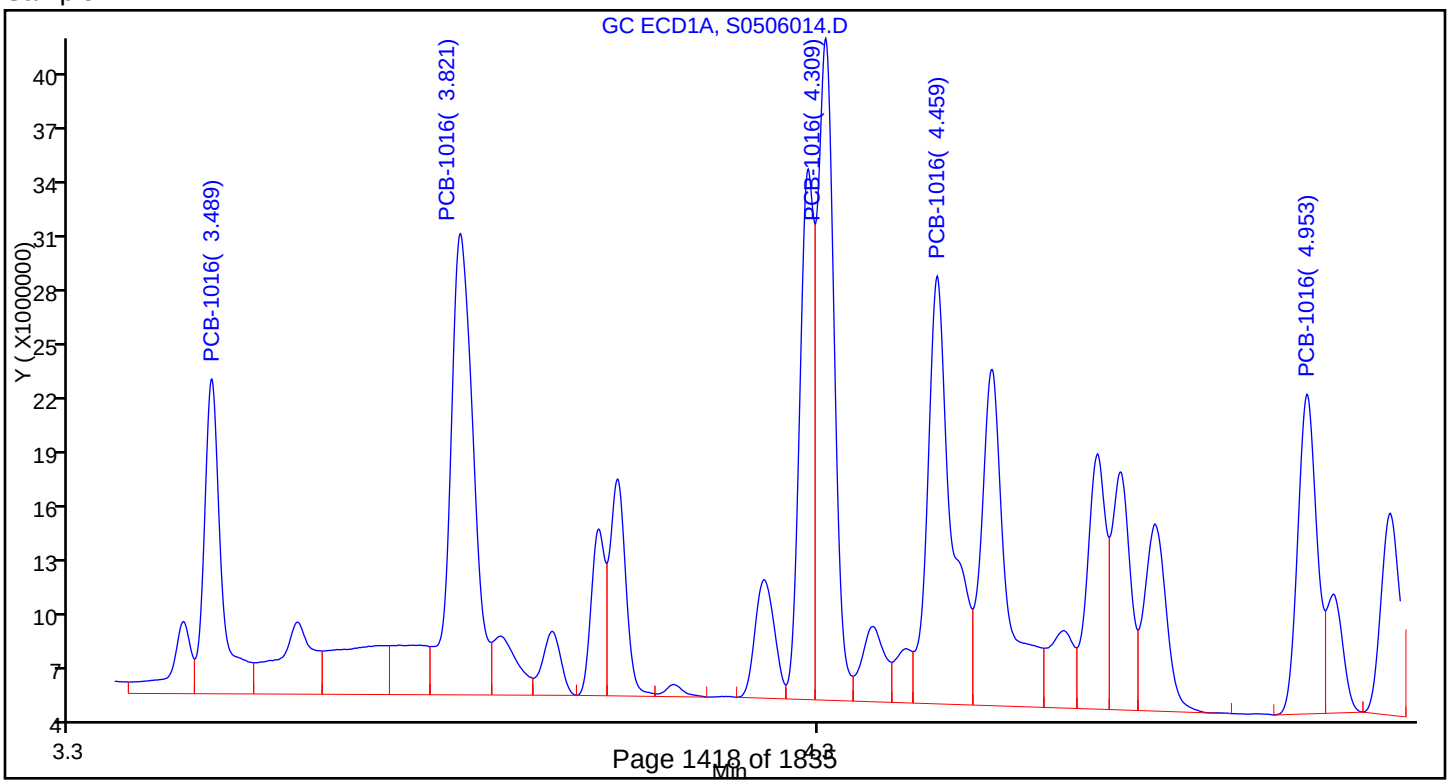


Report Date: 06-May-2015 11:42:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506014.D

Injection Date: 06-May-2015 10:33:37 Instrument ID: CHGC10

Lims ID: LCS 180-140615/4-A

Client ID:

Operator ID: 402331 ALS Bottle#: 14 Worklist Smp#: 14

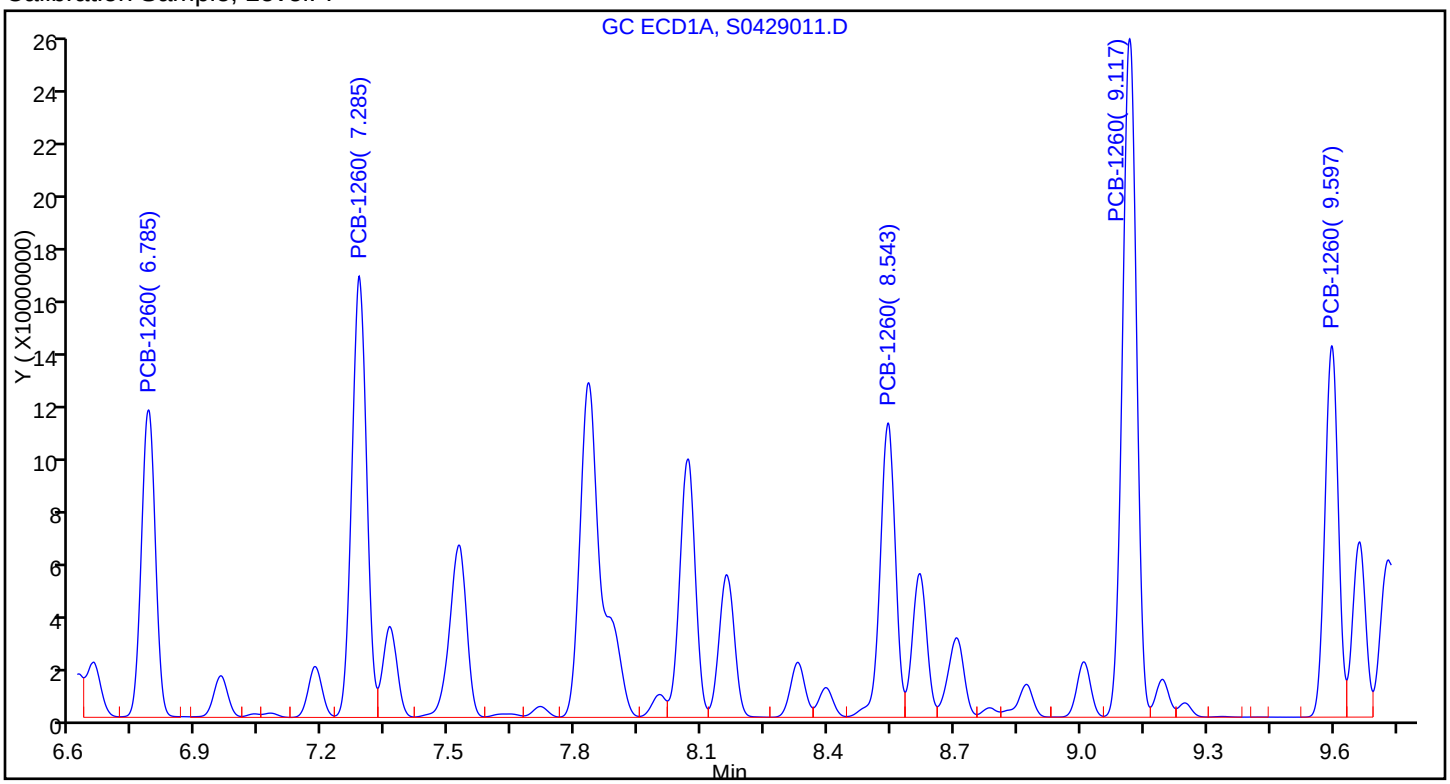
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



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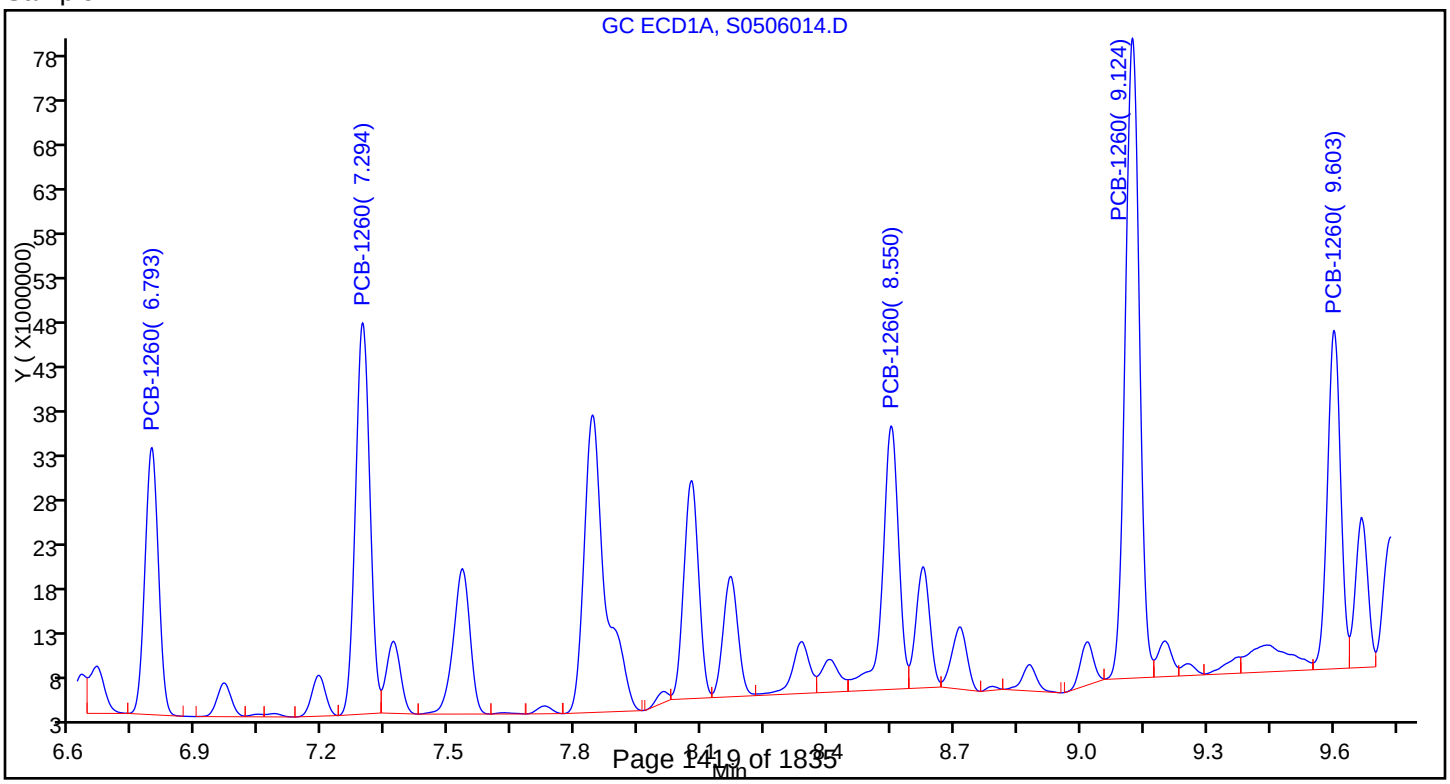


FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-140615/4-A

Matrix: Water | Lab File ID: S0506014.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1000(mL) | Date Analyzed: 05/06/2015 10:33

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	1.07		0.010	0.0025
11096-82-5	PCB-1260	1.07		0.010	0.0017

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	134		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	113		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506014.D
Lims ID: LCS 180-140615/4-A
Client ID:
Sample Type: LCS
Inject. Date: 06-May-2015 10:33:37 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-014
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

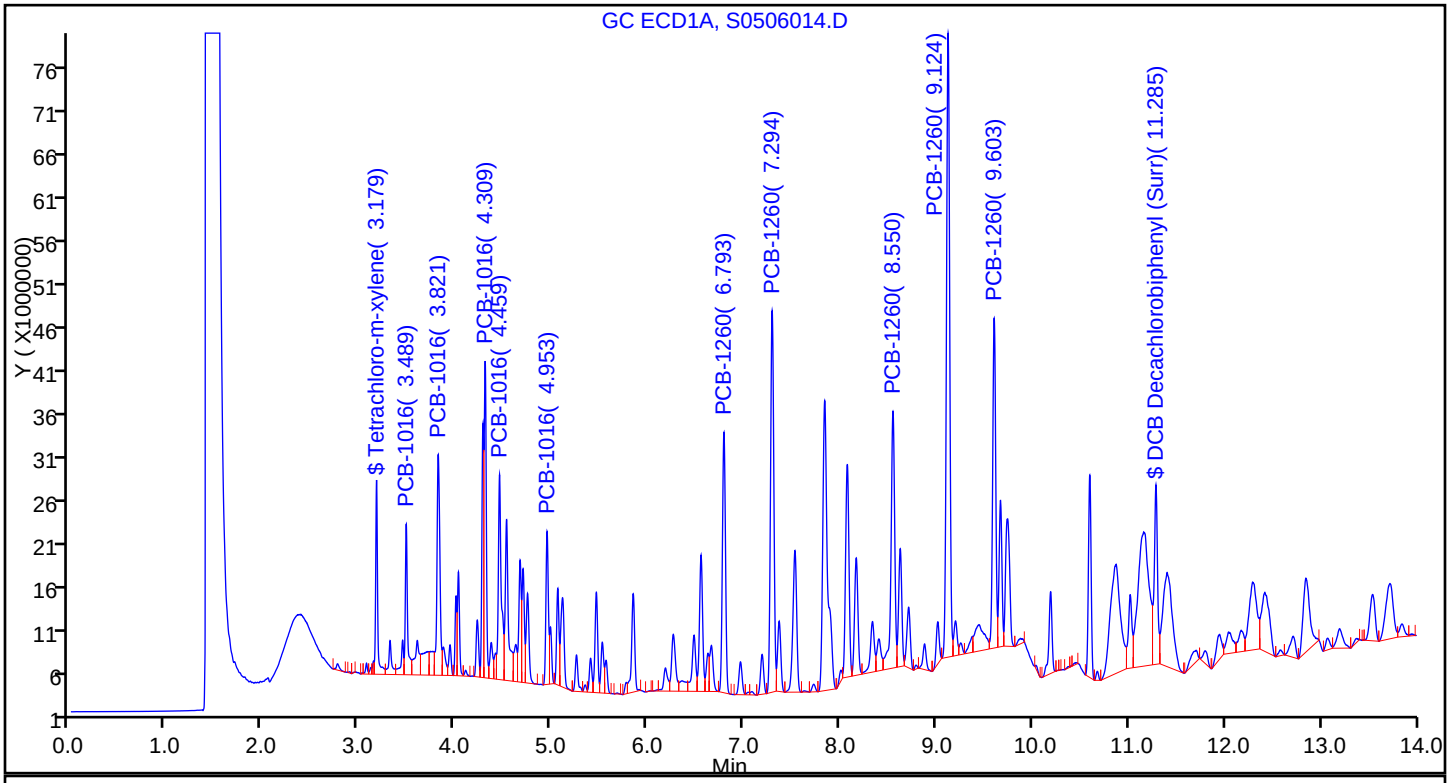
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.173	0.006	22381636H	0.0200	0.0218	
2	3.652	3.647	0.005	17743806H	0.0200	0.0226	
						RPD = 3.64	
3 PCB-1016							
1	3.489	3.483	0.006	17363483H	1.00	0.9838	
1	3.821	3.815	0.006	25440954H	1.00	0.9688	
1	4.309	4.303	0.006	36509003H	1.00	0.9597	
1	4.459	4.453	0.006	23599291H	1.00	1.05	
1	4.953	4.948	0.005	17631296H	1.00	0.9249	
		Average of Peak Amounts =				0.9768	
2	4.177	4.171	0.006	11075072H	1.00	1.06	
2	4.669	4.663	0.006	14794622H	1.00	1.02	
2	5.300	5.295	0.005	23309196H	1.00	1.11	
2	5.498	5.493	0.005	14038631H	1.00	1.06	
2	6.241	6.236	0.005	11962400H	1.00	1.07	
		Average of Peak Amounts =				1.07	
						RPD = 8.84	

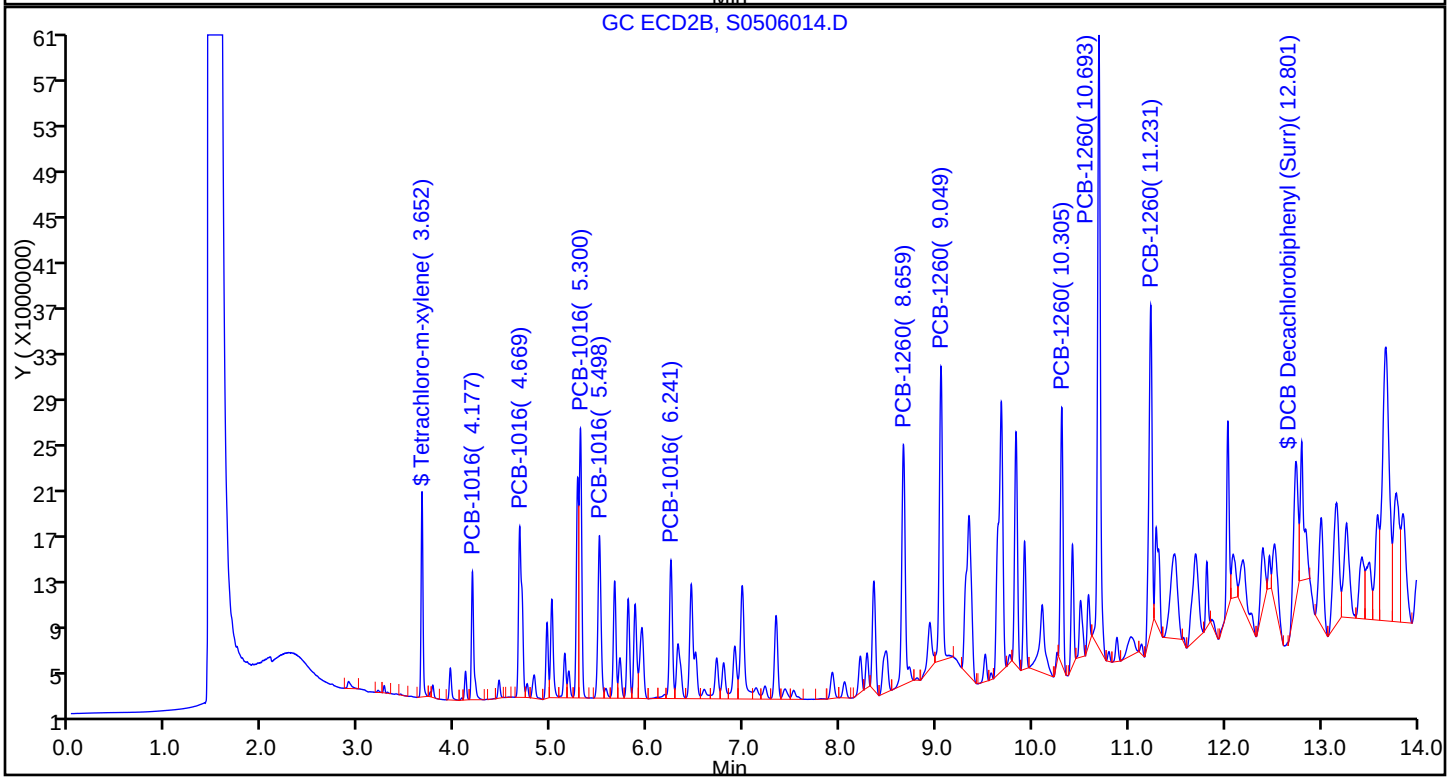
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.793	6.788	0.005	30013554H	1.00	0.9404	
1	7.294	7.289	0.005	43969275H	1.00	0.9653	
1	8.550	8.546	0.004	29586793H	1.00	1.01	
1	9.124	9.119	0.005	71909439H	1.00	1.03	
1	9.603	9.599	0.004	38014834H	1.00	1.03	
		Average of Peak Amounts =				0.99	
2	8.659	8.655	0.004	20771921H	1.00	1.06	
2	9.049	9.046	0.003	25441773H	1.00	1.06	
2	10.305	10.303	0.002	22220252H	1.00	1.04	
2	10.693	10.690	0.003	53017191H	1.00	1.13	
2	11.231	11.228	0.003	28257763H	1.00	1.06	
		Average of Peak Amounts =				1.07	
						RPD = 7.10	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.285	11.282	0.003	20690097H	0.0200	0.0268	
2	12.801	12.797	0.004	11999744H	0.0200	0.0268	
						RPD = 0.14	

Report Date: 06-May-2015 11:42:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506014.D				
Injection Date:	06-May-2015 10:33:37	Instrument ID:	CHGC10		
Lims ID:	LCS 180-140615/4-A				
Client ID:					
Operator ID:	402331	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





Report Date: 06-May-2015 11:42:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506014.D

Injection Date: 06-May-2015 10:33:37 Instrument ID: CHGC10

Lims ID: LCS 180-140615/4-A

Client ID:

Operator ID: 402331 ALS Bottle#: 14 Worklist Smp#: 14

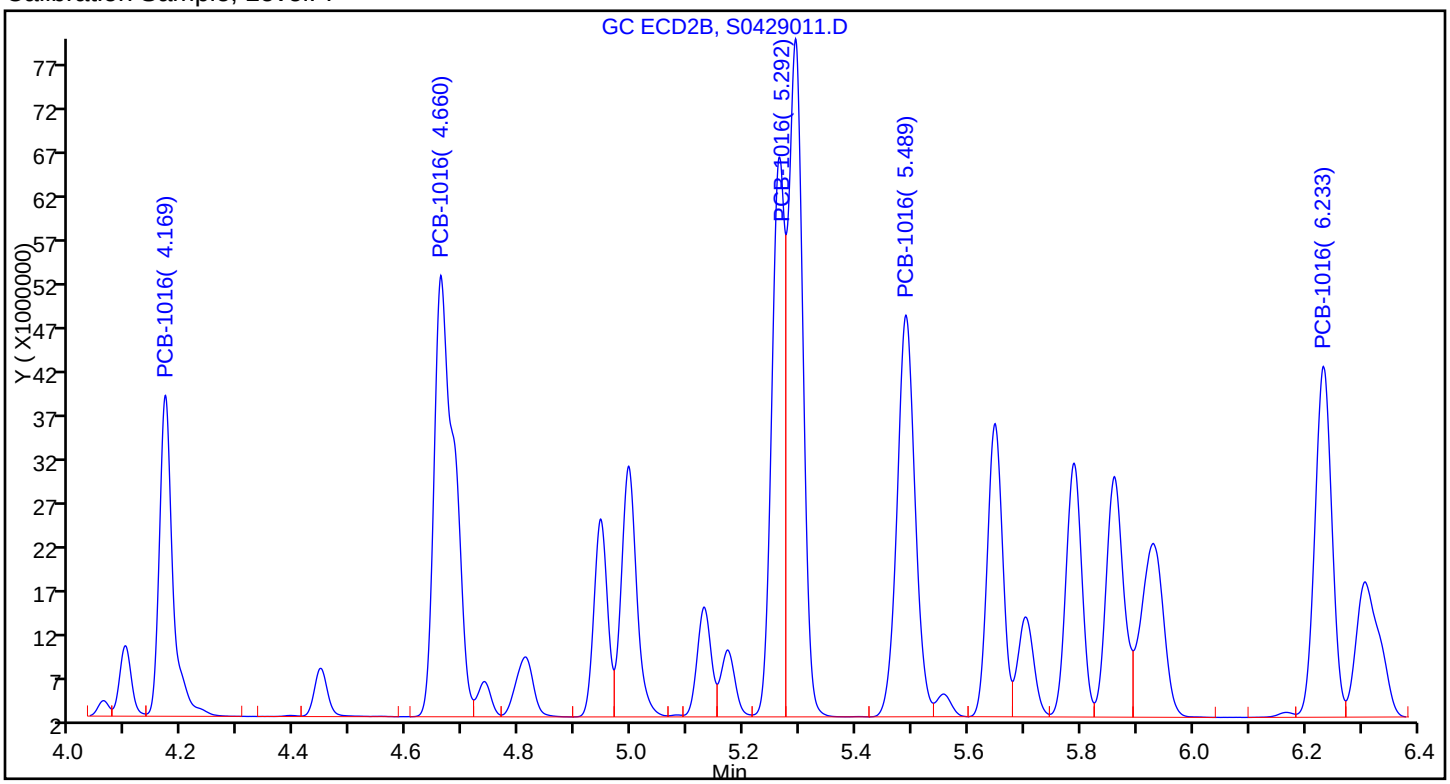
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD2B

3 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



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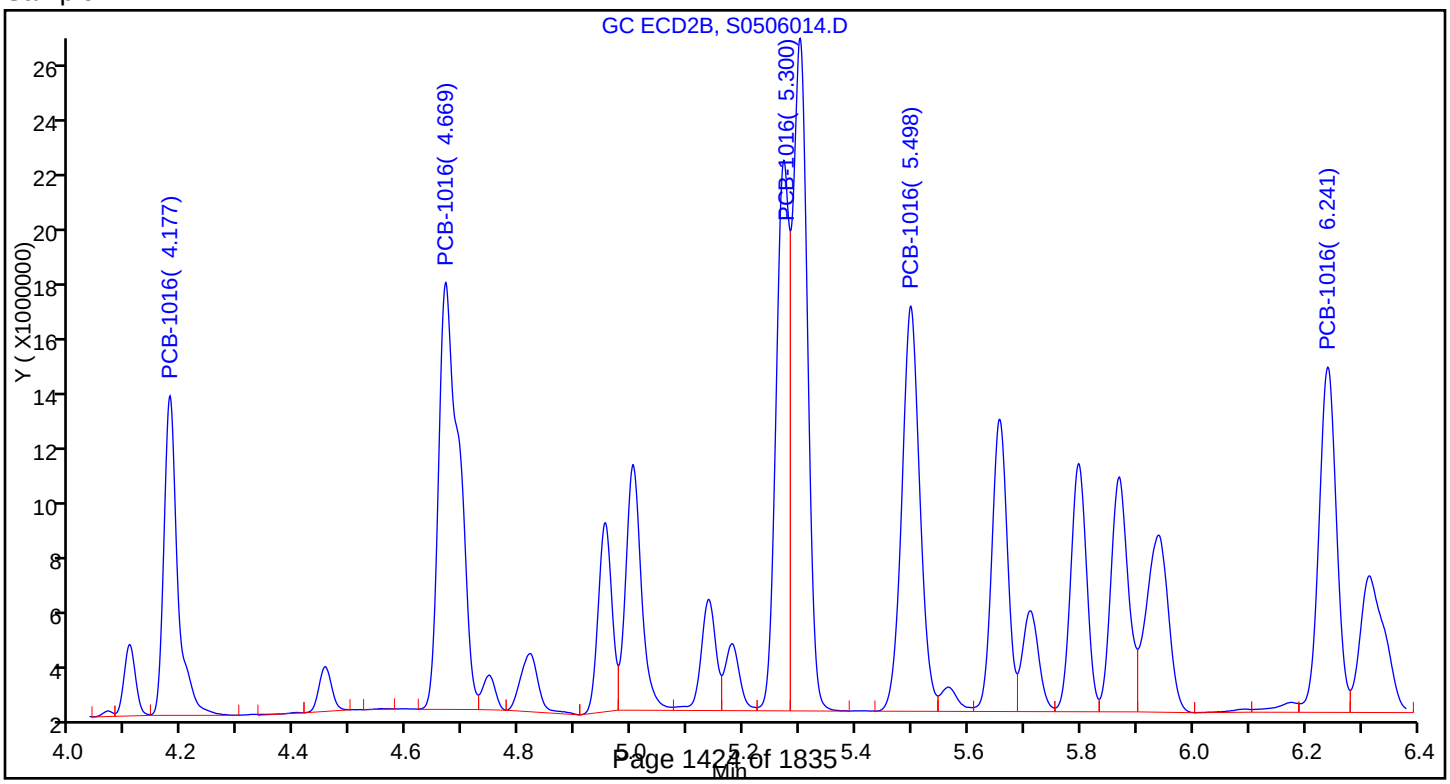


Report Date: 06-May-2015 11:42:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506014.D

Injection Date: 06-May-2015 10:33:37 Instrument ID: CHGC10

Lims ID: LCS 180-140615/4-A

Client ID:

Operator ID: 402331 ALS Bottle#: 14 Worklist Smp#: 14

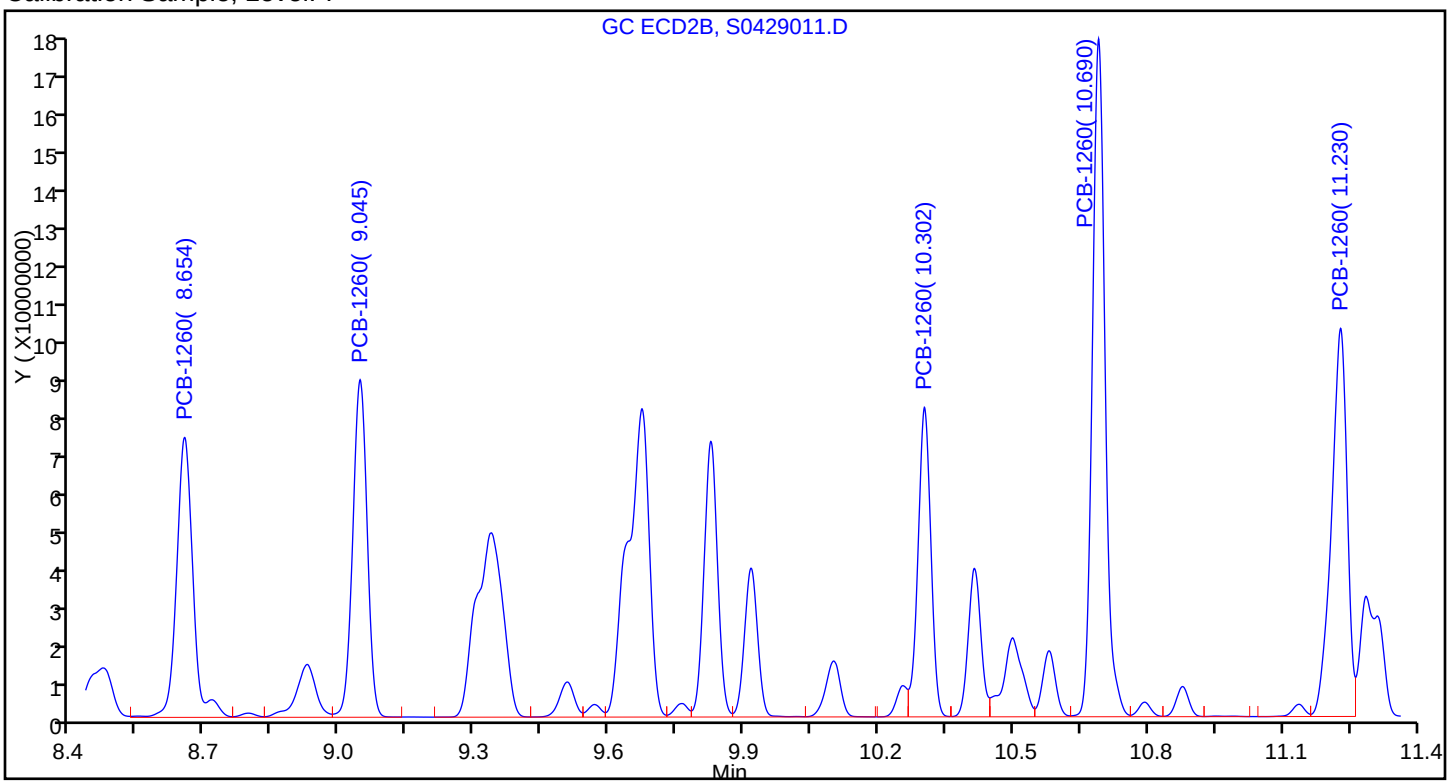
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



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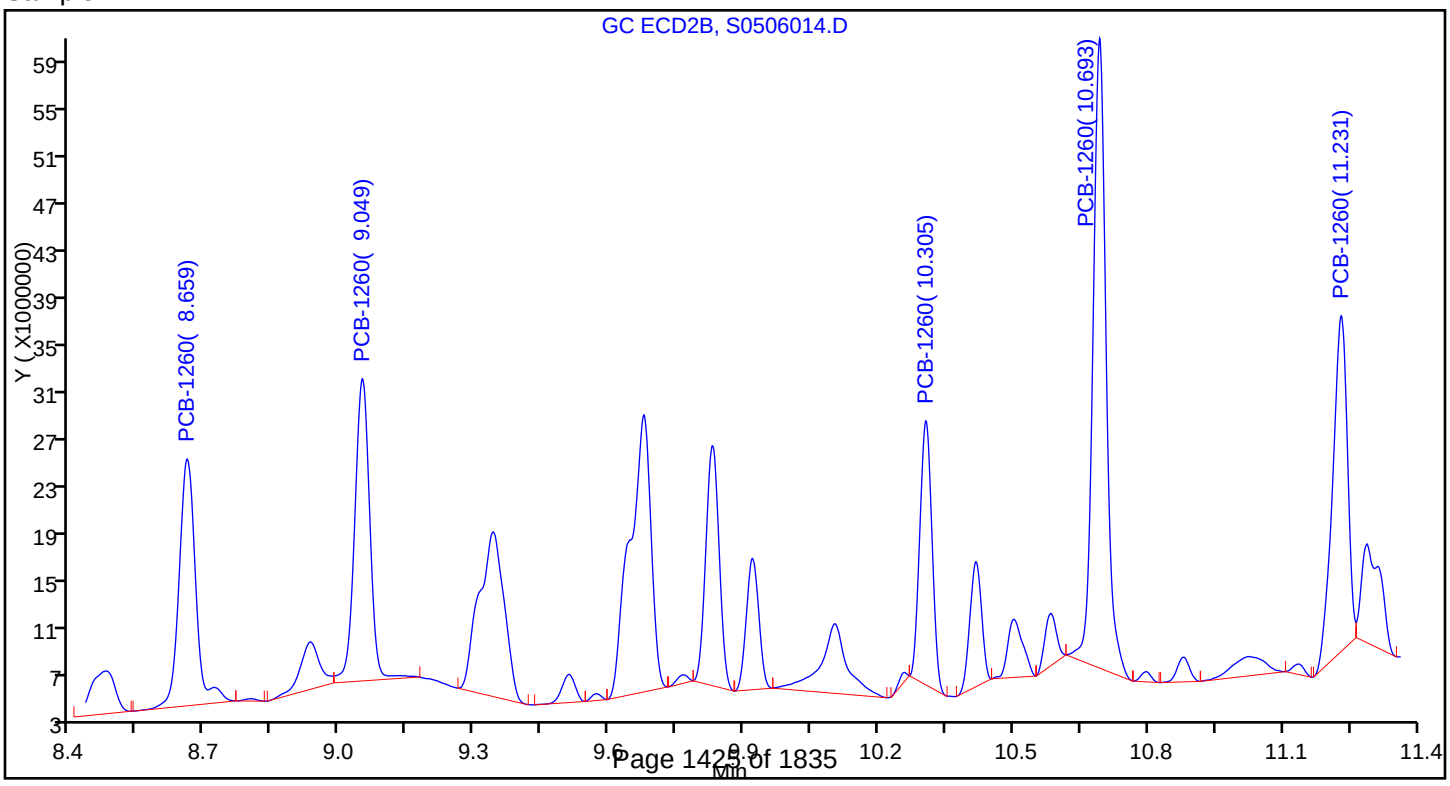


FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-140781/2-A

Matrix: Water | Lab File ID: S0506124.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/06/2015 12:40

Sample wt/vol: 1000(mL) | Date Analyzed: 05/07/2015 06:19

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.840		0.010	0.0025
11096-82-5	PCB-1260	0.844		0.010	0.0017

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	90		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	102		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506124.D
Lims ID: LCS 180-140781/2-A
Client ID:
Sample Type: LCS
Inject. Date: 07-May-2015 06:19:04 ALS Bottle#: 4 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-024
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:40 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.178	3.172	0.006	21102410H	0.0200	0.0203	
2	3.652	3.643	0.009	17440129H	0.0200	0.0194	
						RPD = 4.64	
3 PCB-1016							
1	3.487	3.483	0.004	15914468H	1.00	0.8177	
1	3.820	3.816	0.004	23150174H	1.00	0.8198	
1	4.308	4.307	0.001	35139137H	1.00	0.8527	
1	4.457	4.456	0.001	20816626H	1.00	0.8420	
1	4.952	4.953	-0.001	17460735H	1.00	0.8692	
		Average of Peak Amounts =				0.8403	
2	4.175	4.168	0.007	10702991H	1.00	0.8310	
2	4.667	4.661	0.006	14736049H	1.00	0.8378	
2	5.299	5.293	0.006	22269087H	1.00	0.8649	
2	5.497	5.491	0.006	13514506H	1.00	0.8352	
2	6.240	6.235	0.005	11795884H	1.00	0.8741	
		Average of Peak Amounts =				0.8486	
						RPD = 0.98	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.792	6.796	-0.004	28767998H	1.00	0.8490	
1	7.292	7.296	-0.004	41574016H	1.00	0.8478	
1	8.550	8.555	-0.005	27339037H	1.00	0.8475	
1	9.123	9.129	-0.006	66366948H	1.00	0.8334	
1	9.603	9.607	-0.004	36019105H	1.00	0.8434	
		Average of Peak Amounts =				0.8442	
2	8.659	8.655	0.004	20384798H	1.00	0.8559	
2	9.049	9.046	0.003	24155247H	1.00	0.8136	
2	10.306	10.301	0.005	22742339H	1.00	0.8395	
2	10.693	10.690	0.003	48737480H	1.00	0.8093	
2	11.231	11.228	0.003	28797168H	1.00	0.8169	
		Average of Peak Amounts =				0.8270	
						RPD = 2.06	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.286	11.290	-0.004	16589436H	0.0200	0.0180	
2	12.801	12.798	0.003	11216294H	0.0200	0.0187	
						RPD = 3.81	

Report Date: 07-May-2015 09:32:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506124.D

Injection Date: 07-May-2015 06:19:04 Instrument ID: CHGC10

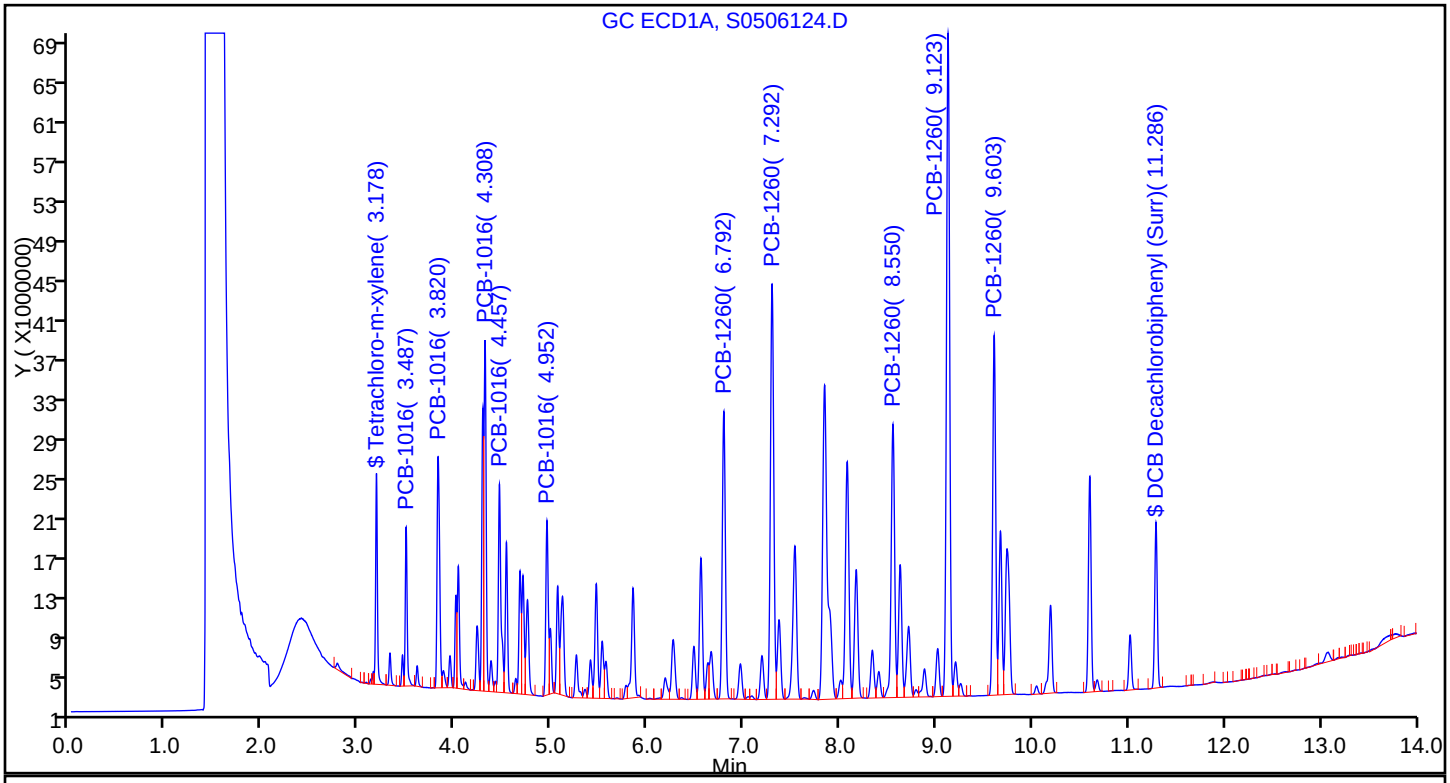
Lims ID: LCS 180-140781/2-A

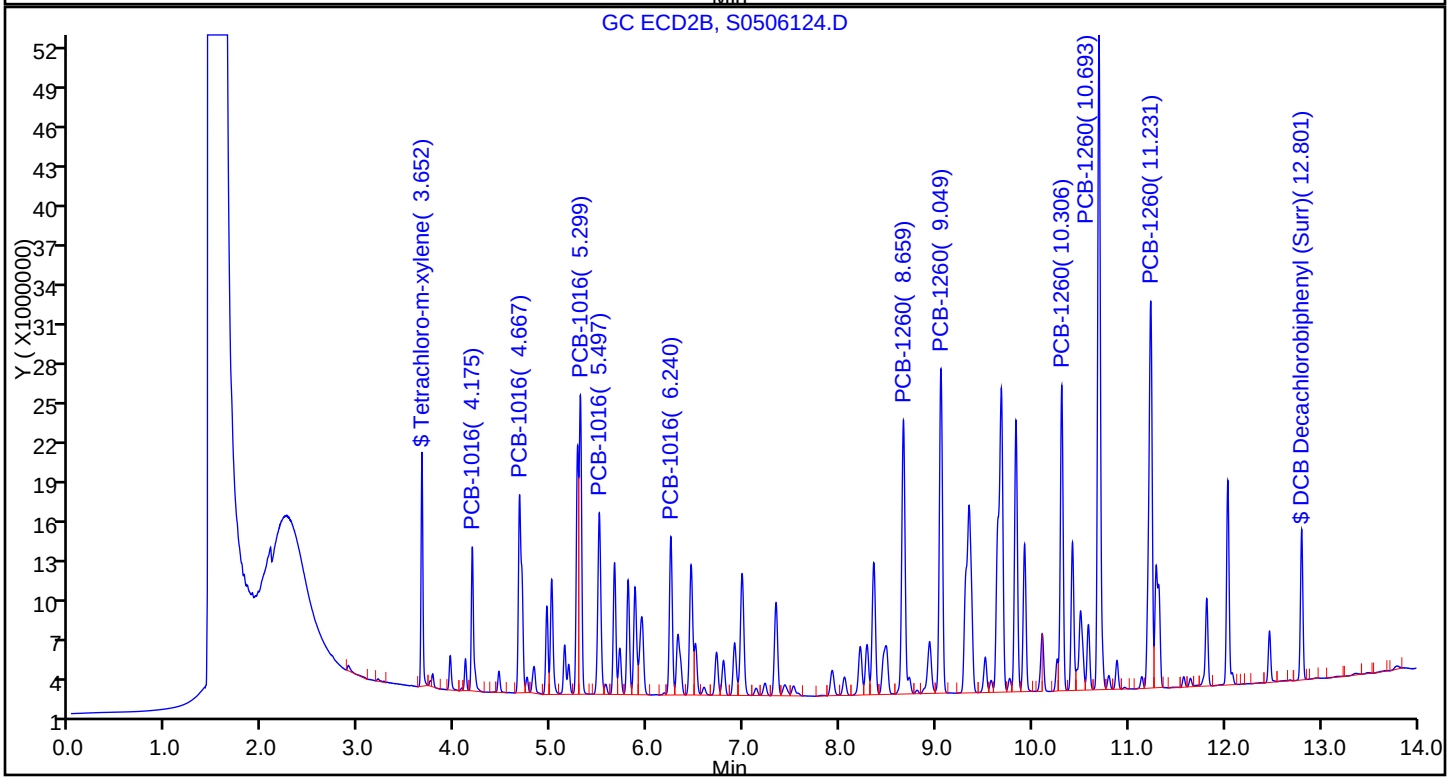
Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





Report Date: 07-May-2015 09:32:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506124.D

Injection Date: 07-May-2015 06:19:04 Instrument ID: CHGC10

Lims ID: LCS 180-140781/2-A

Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 24

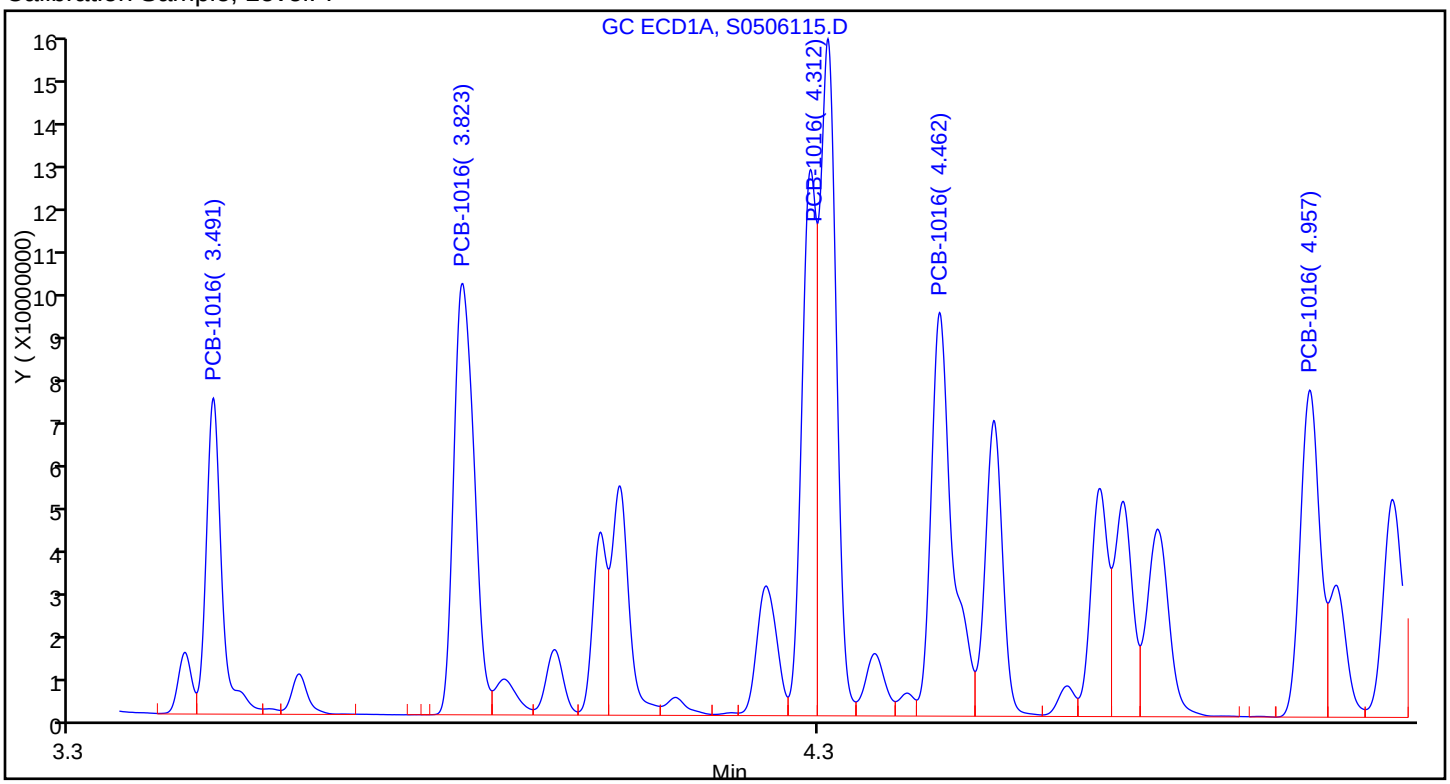
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

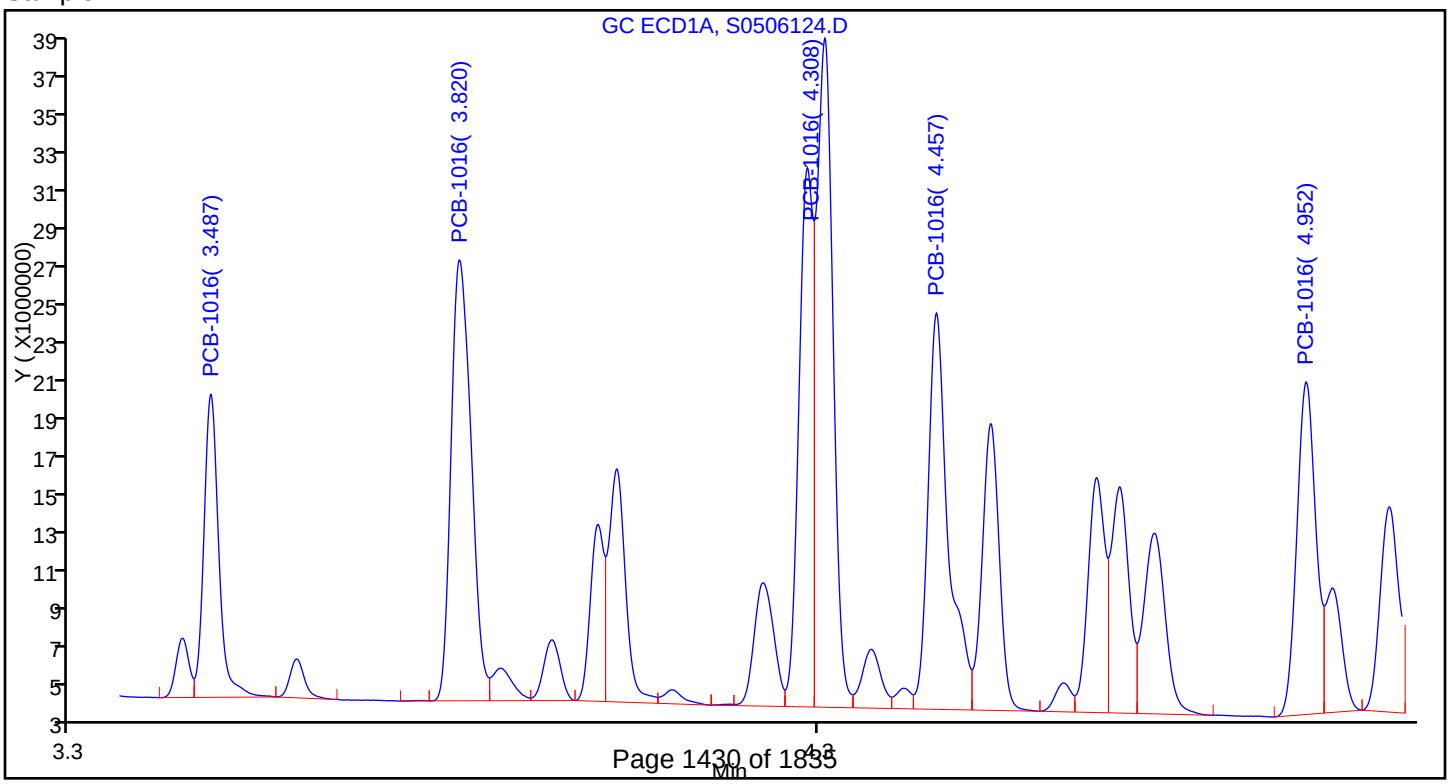
Column: Detector GC ECD1A

3 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



Sample



Report Date: 07-May-2015 09:32:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506124.D

Injection Date: 07-May-2015 06:19:04 Instrument ID: CHGC10

Lims ID: LCS 180-140781/2-A

Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 24

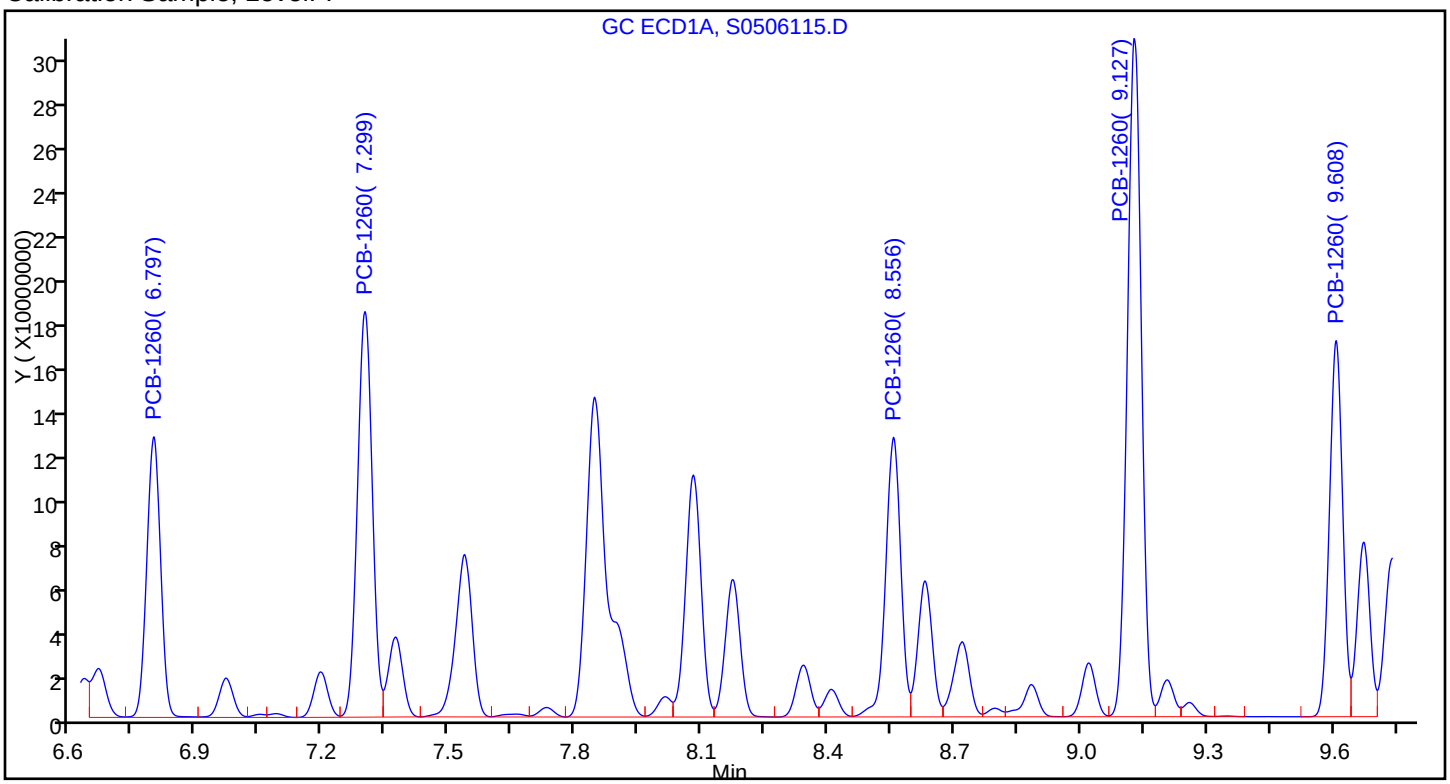
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



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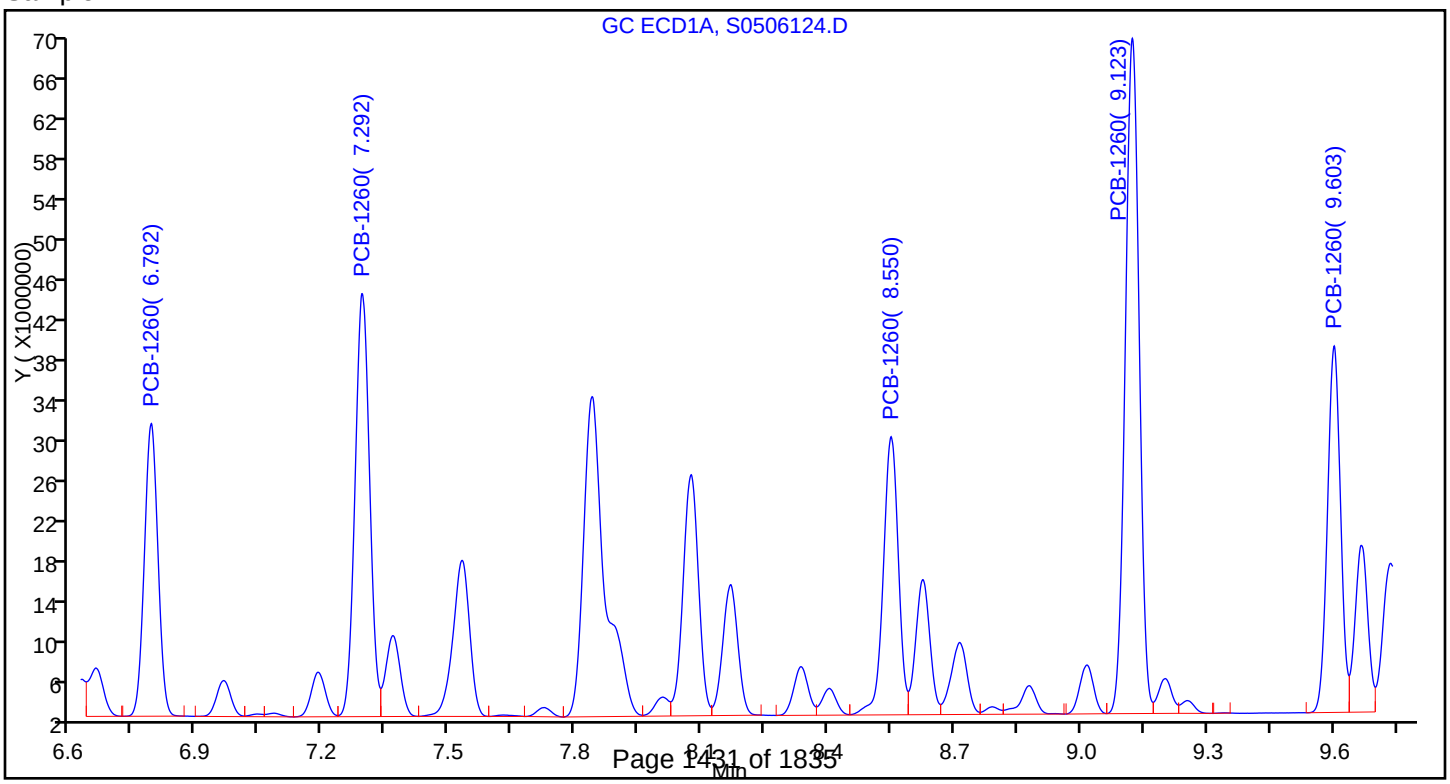


FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-140781/2-A

Matrix: Water | Lab File ID: S0506124.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/06/2015 12:40

Sample wt/vol: 1000(mL) | Date Analyzed: 05/07/2015 06:19

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140736 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	93		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	97		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506124.D
Lims ID: LCS 180-140781/2-A
Client ID:
Sample Type: LCS
Inject. Date: 07-May-2015 06:19:04 ALS Bottle#: 4 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-024
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:40 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.178	3.172	0.006	21102410H	0.0200	0.0203	
2	3.652	3.643	0.009	17440129H	0.0200	0.0194	
						RPD = 4.64	
3 PCB-1016							
1	3.487	3.483	0.004	15914468H	1.00	0.8177	
1	3.820	3.816	0.004	23150174H	1.00	0.8198	
1	4.308	4.307	0.001	35139137H	1.00	0.8527	
1	4.457	4.456	0.001	20816626H	1.00	0.8420	
1	4.952	4.953	-0.001	17460735H	1.00	0.8692	
		Average of Peak Amounts =				0.8403	
2	4.175	4.168	0.007	10702991H	1.00	0.8310	
2	4.667	4.661	0.006	14736049H	1.00	0.8378	
2	5.299	5.293	0.006	22269087H	1.00	0.8649	
2	5.497	5.491	0.006	13514506H	1.00	0.8352	
2	6.240	6.235	0.005	11795884H	1.00	0.8741	
		Average of Peak Amounts =				0.8486	
						RPD = 0.98	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.792	6.796	-0.004	28767998H	1.00	0.8490	
1	7.292	7.296	-0.004	41574016H	1.00	0.8478	
1	8.550	8.555	-0.005	27339037H	1.00	0.8475	
1	9.123	9.129	-0.006	66366948H	1.00	0.8334	
1	9.603	9.607	-0.004	36019105H	1.00	0.8434	
		Average of Peak Amounts =				0.8442	
2	8.659	8.655	0.004	20384798H	1.00	0.8559	
2	9.049	9.046	0.003	24155247H	1.00	0.8136	
2	10.306	10.301	0.005	22742339H	1.00	0.8395	
2	10.693	10.690	0.003	48737480H	1.00	0.8093	
2	11.231	11.228	0.003	28797168H	1.00	0.8169	
		Average of Peak Amounts =				0.8270	
						RPD = 2.06	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.286	11.290	-0.004	16589436H	0.0200	0.0180	
2	12.801	12.798	0.003	11216294H	0.0200	0.0187	
						RPD = 3.81	

Report Date: 07-May-2015 09:32:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506124.D

Injection Date: 07-May-2015 06:19:04 Instrument ID: CHGC10

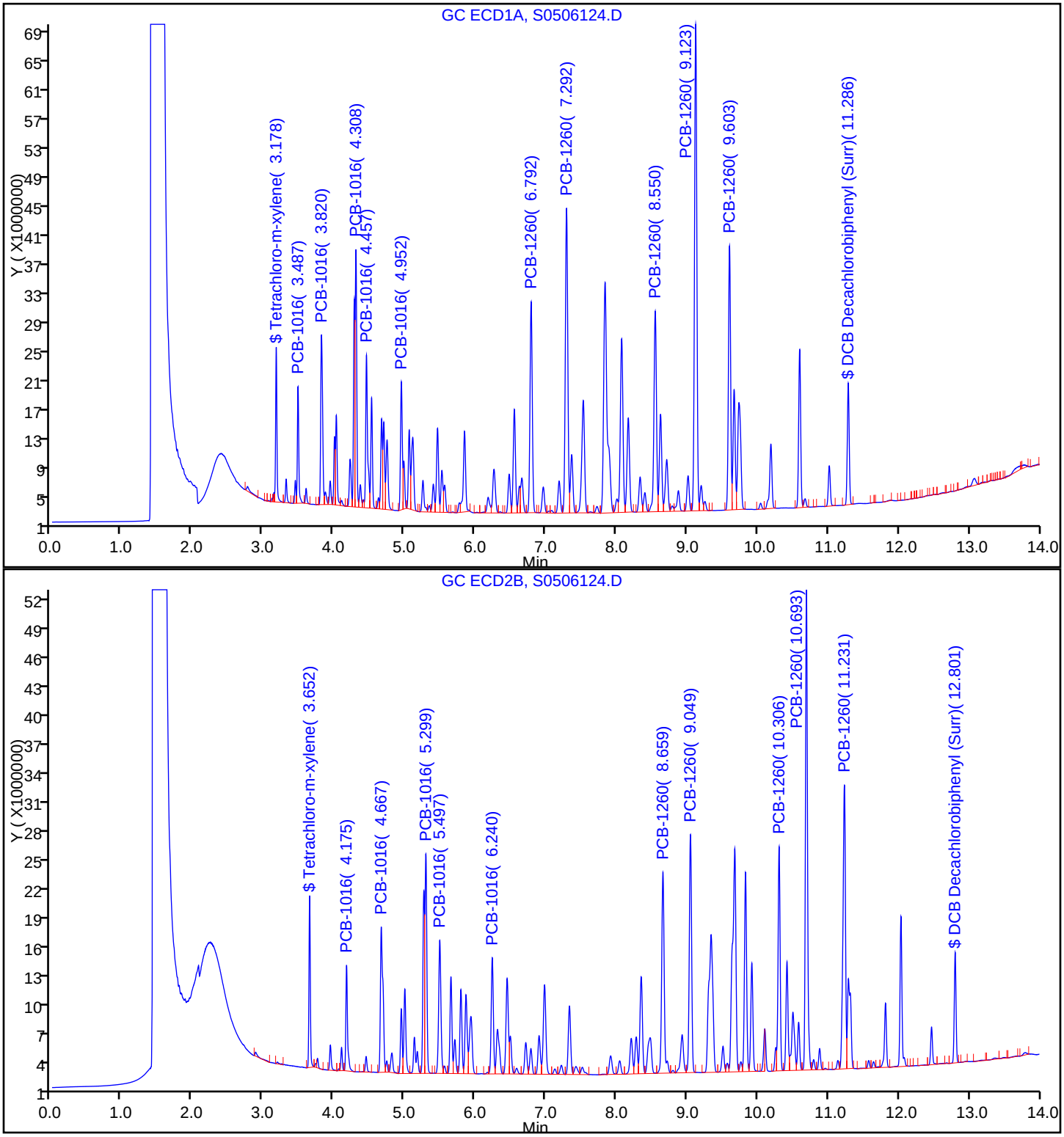
Lims ID: LCS 180-140781/2-A

Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



Report Date: 07-May-2015 09:32:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506124.D

Injection Date: 07-May-2015 06:19:04 Instrument ID: CHGC10

Lims ID: LCS 180-140781/2-A

Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 24

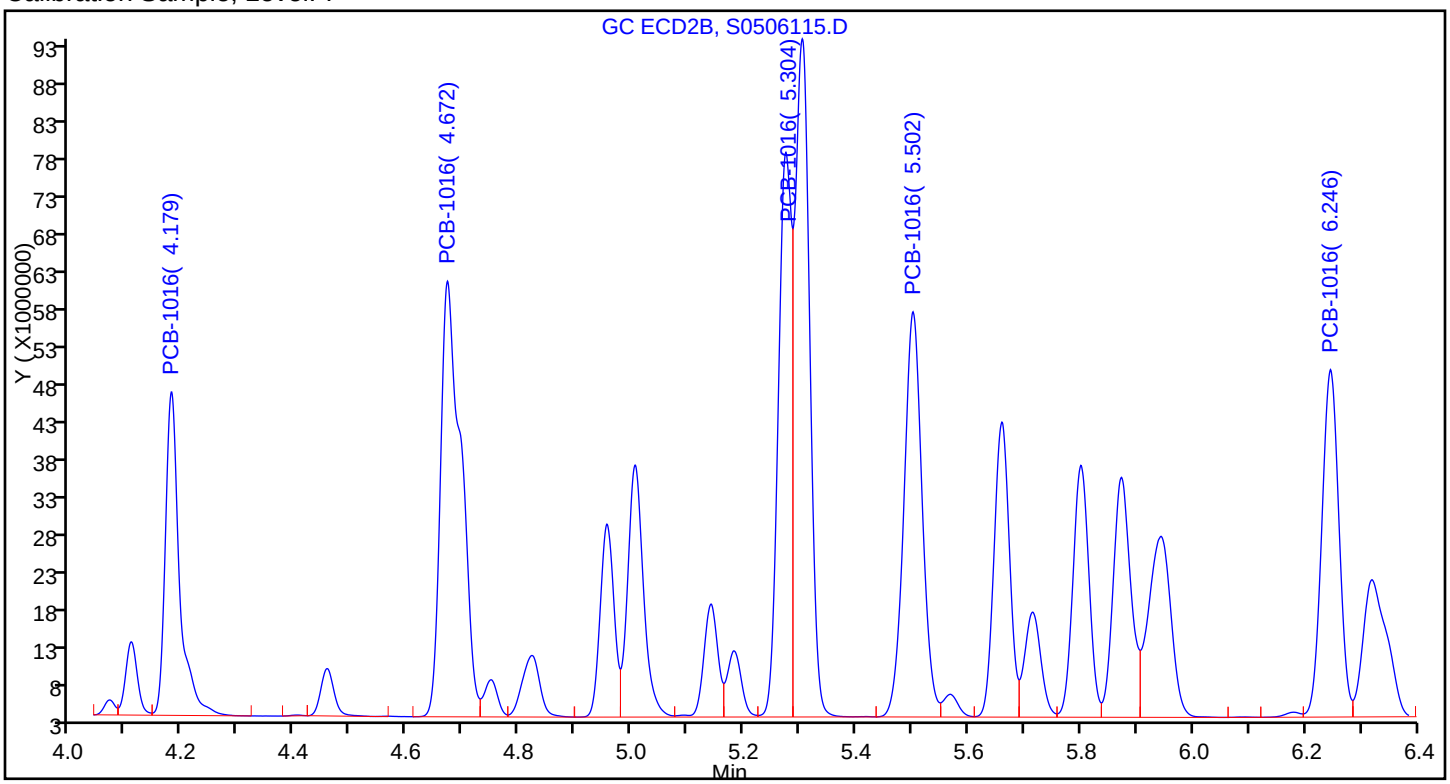
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

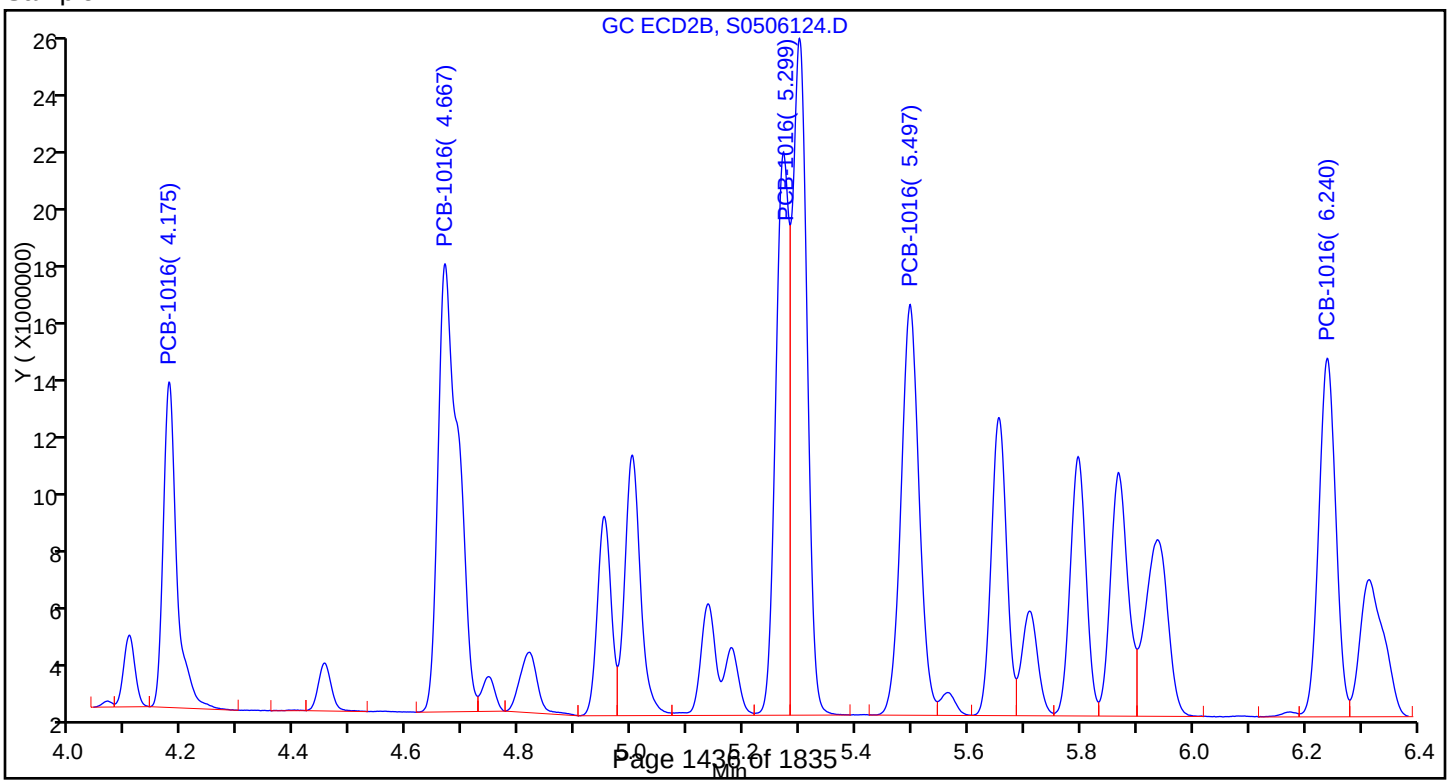
Column: Detector GC ECD2B

3 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



Sample



Report Date: 07-May-2015 09:32:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506124.D

Injection Date: 07-May-2015 06:19:04 Instrument ID: CHGC10

Lims ID: LCS 180-140781/2-A

Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 24

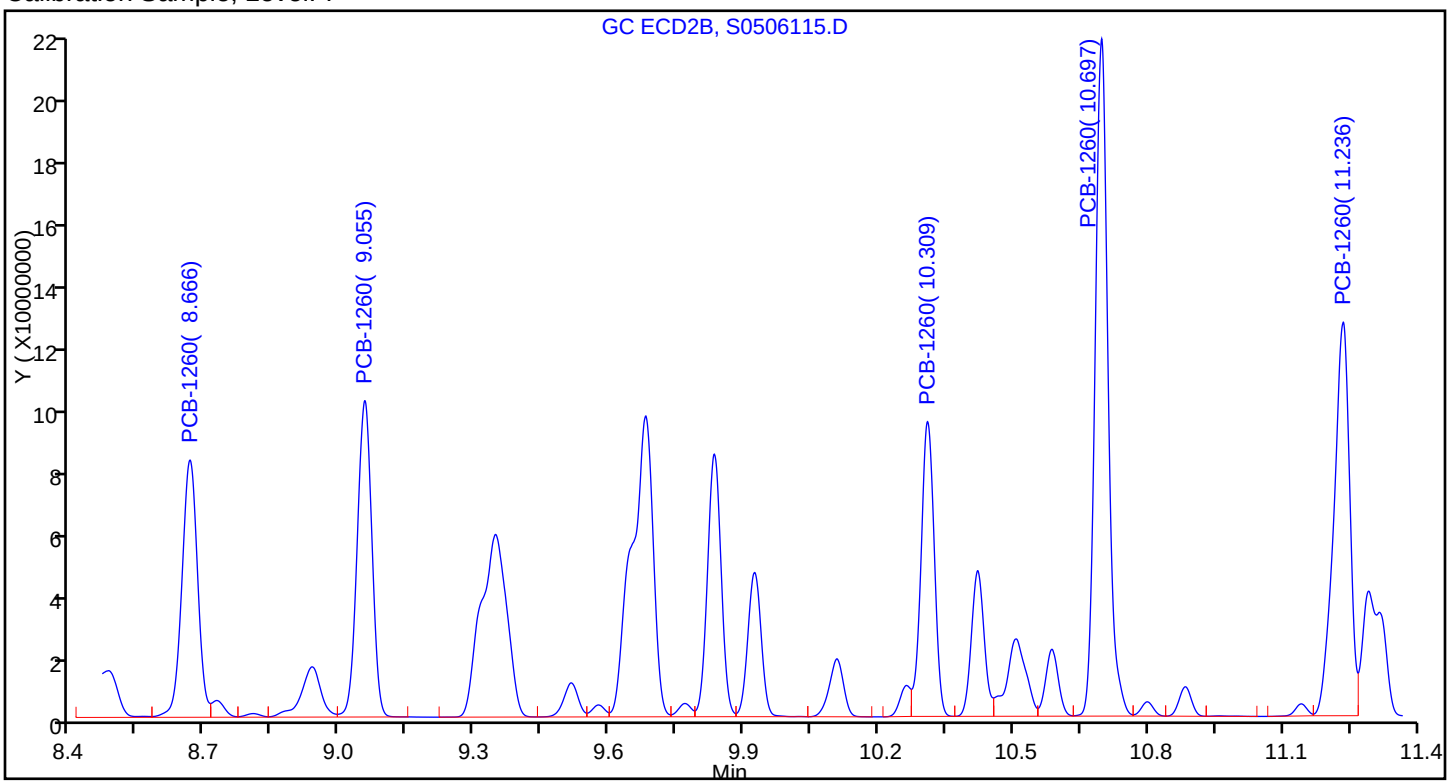
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

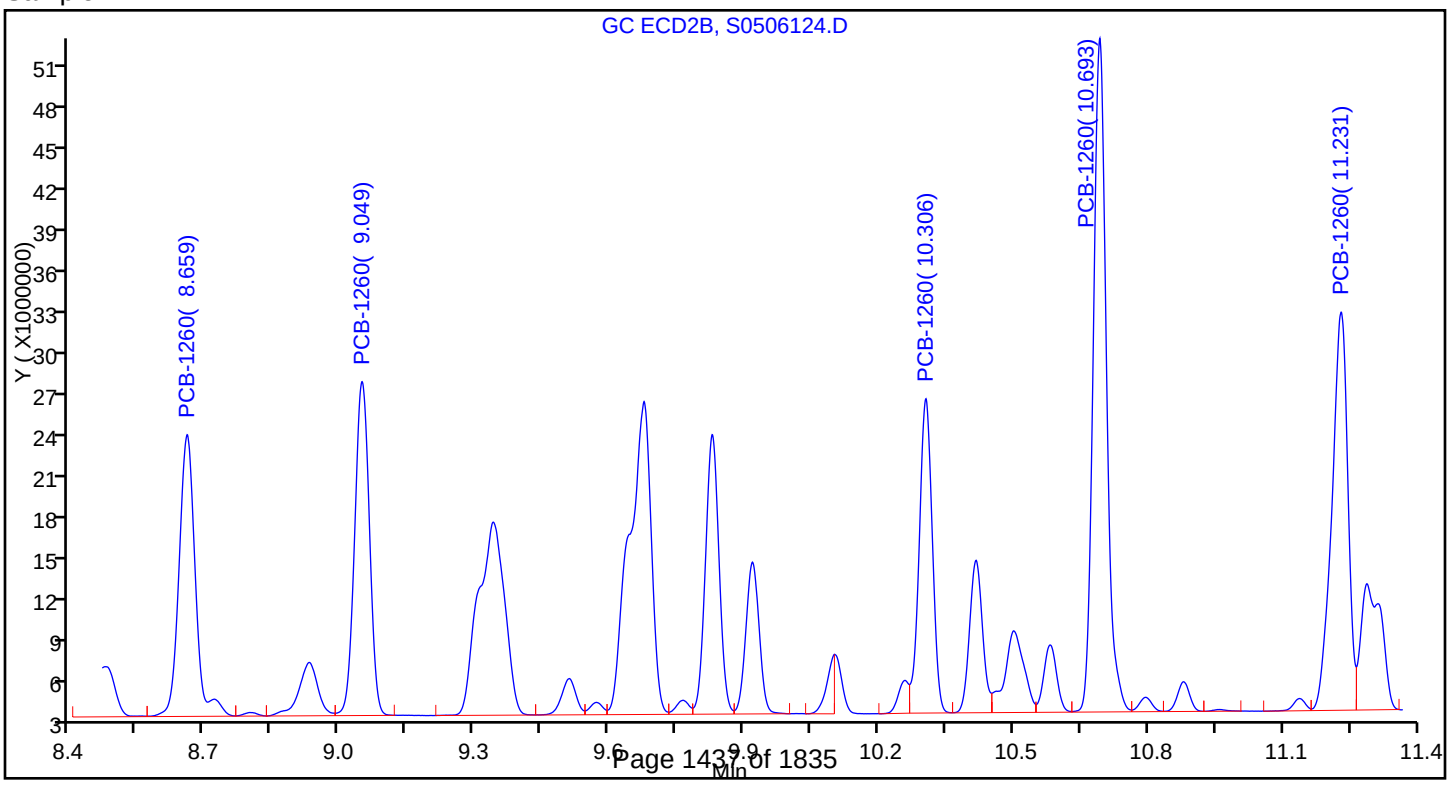
Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-140615/5-A

Matrix: Water | Lab File ID: S0506015.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1000(mL) | Date Analyzed: 05/06/2015 10:52

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	110		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	104		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506015.D
Lims ID: LCSD 180-140615/5-A
Client ID:
Sample Type: LCSD
Inject. Date: 06-May-2015 10:52:22 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-015
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.173	0.006	21296854H	0.0200	0.0207	
2	3.652	3.647	0.005	17078468H	0.0200	0.0217	
						RPD = 4.78	
3 PCB-1016							
1	3.488	3.483	0.005	16380514H	1.00	0.9281	
1	3.821	3.815	0.006	23194199H	1.00	0.8832	
1	4.309	4.303	0.006	35697887H	1.00	0.9384	
1	4.458	4.453	0.005	20999227H	1.00	0.9314	
1	4.953	4.948	0.005	17610754H	1.00	0.9238	
		Average of Peak Amounts =				0.9210	
2	4.176	4.171	0.005	10871324H	1.00	1.04	
2	4.668	4.663	0.005	14802733H	1.00	1.03	
2	5.301	5.295	0.006	22679354H	1.00	1.08	
2	5.498	5.493	0.005	13688748H	1.00	1.03	
2	6.241	6.236	0.005	11595262H	1.00	1.04	
		Average of Peak Amounts =				1.05	
						RPD = 12.65	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.791	6.788	0.003	29382142H	1.00	0.9206	
1	7.294	7.289	0.005	43288232H	1.00	0.9504	
1	8.551	8.546	0.005	28493782H	1.00	0.9726	
1	9.123	9.119	0.004	70177918H	1.00	1.01	
1	9.603	9.599	0.004	38061442H	1.00	1.03	
		Average of Peak Amounts =				0.9754	
2	8.660	8.655	0.005	20266629H	1.00	1.03	
2	9.050	9.046	0.004	25616148H	1.00	1.07	
2	10.306	10.303	0.003	23181549H	1.00	1.08	
2	10.693	10.690	0.003	53157742H	1.00	1.13	
2	11.231	11.228	0.003	30897378H	1.00	1.16	
		Average of Peak Amounts =				1.09	
						RPD = 11.41	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.285	11.282	0.003	17049887H	0.0200	0.0221	
2	12.800	12.797	0.003	12543957H	0.0200	0.0280	
						RPD = 23.54	

Report Date: 06-May-2015 11:42:25 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506015.D

Injection Date: 06-May-2015 10:52:22 Instrument ID: CHGC10

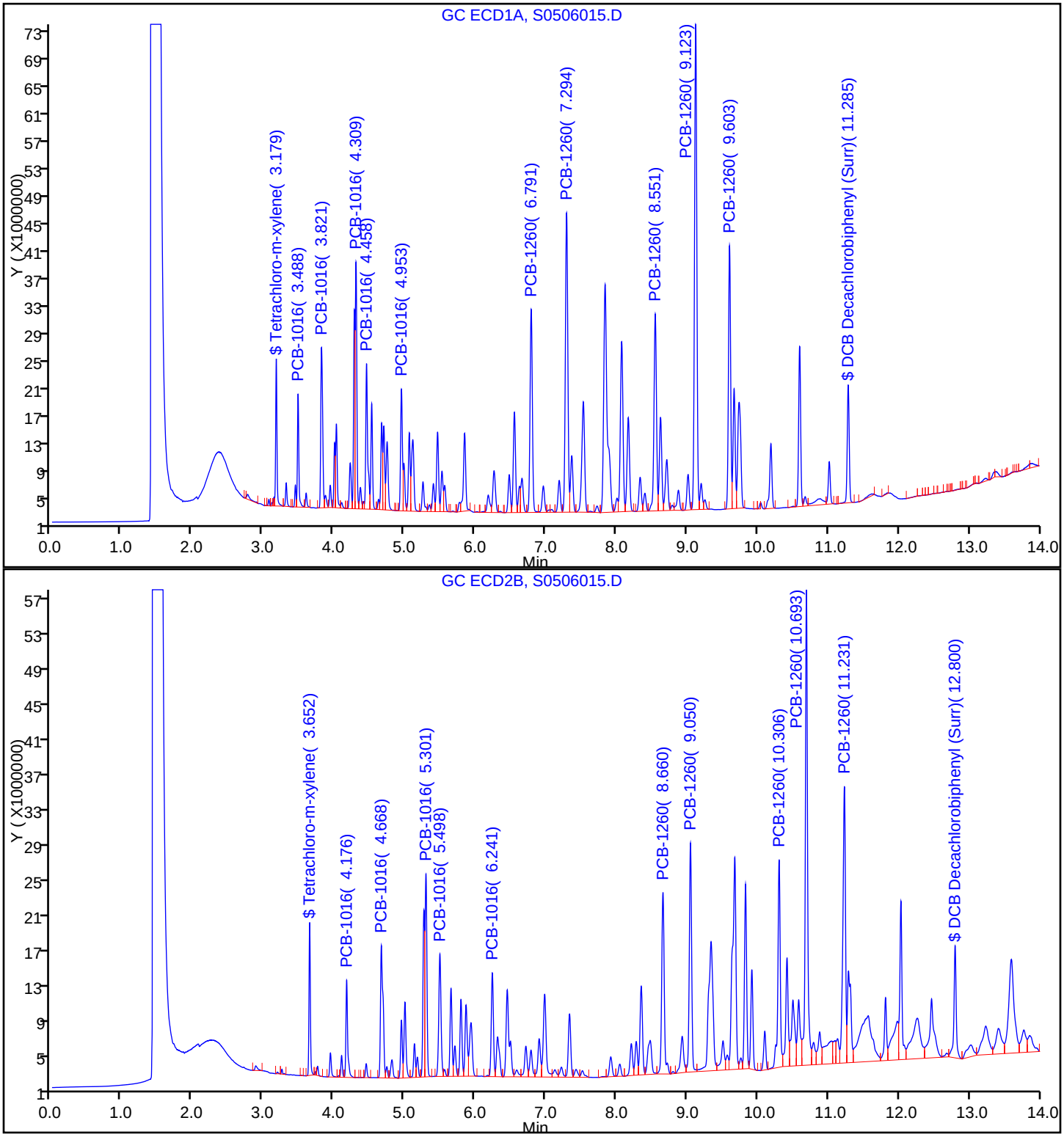
Lims ID: LCSD 180-140615/5-A

Client ID:

Operator ID: 402331 ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL



Report Date: 06-May-2015 11:42:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506015.D

Injection Date: 06-May-2015 10:52:22 Instrument ID: CHGC10

Lims ID: LCSD 180-140615/5-A

Client ID:

Operator ID: 402331 ALS Bottle#: 15 Worklist Smp#: 15

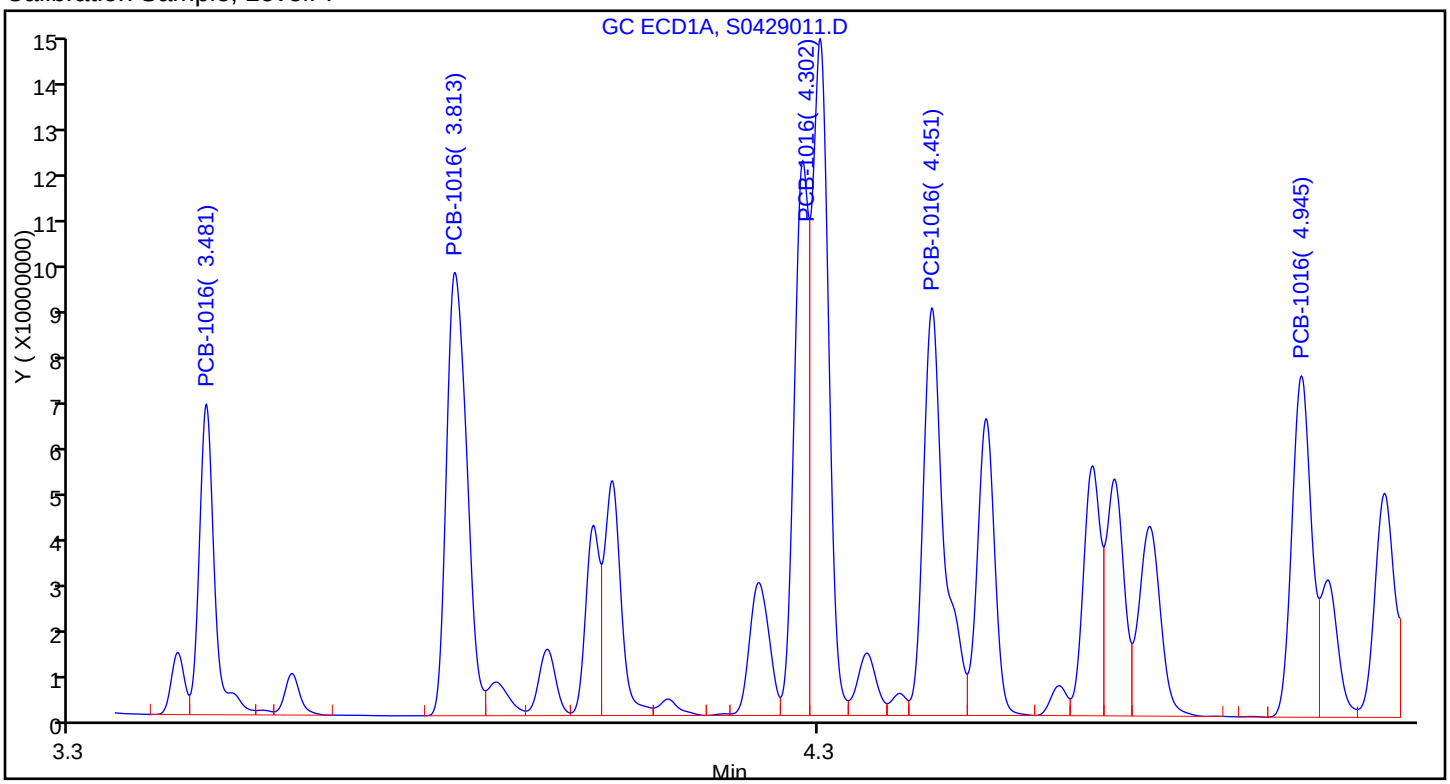
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

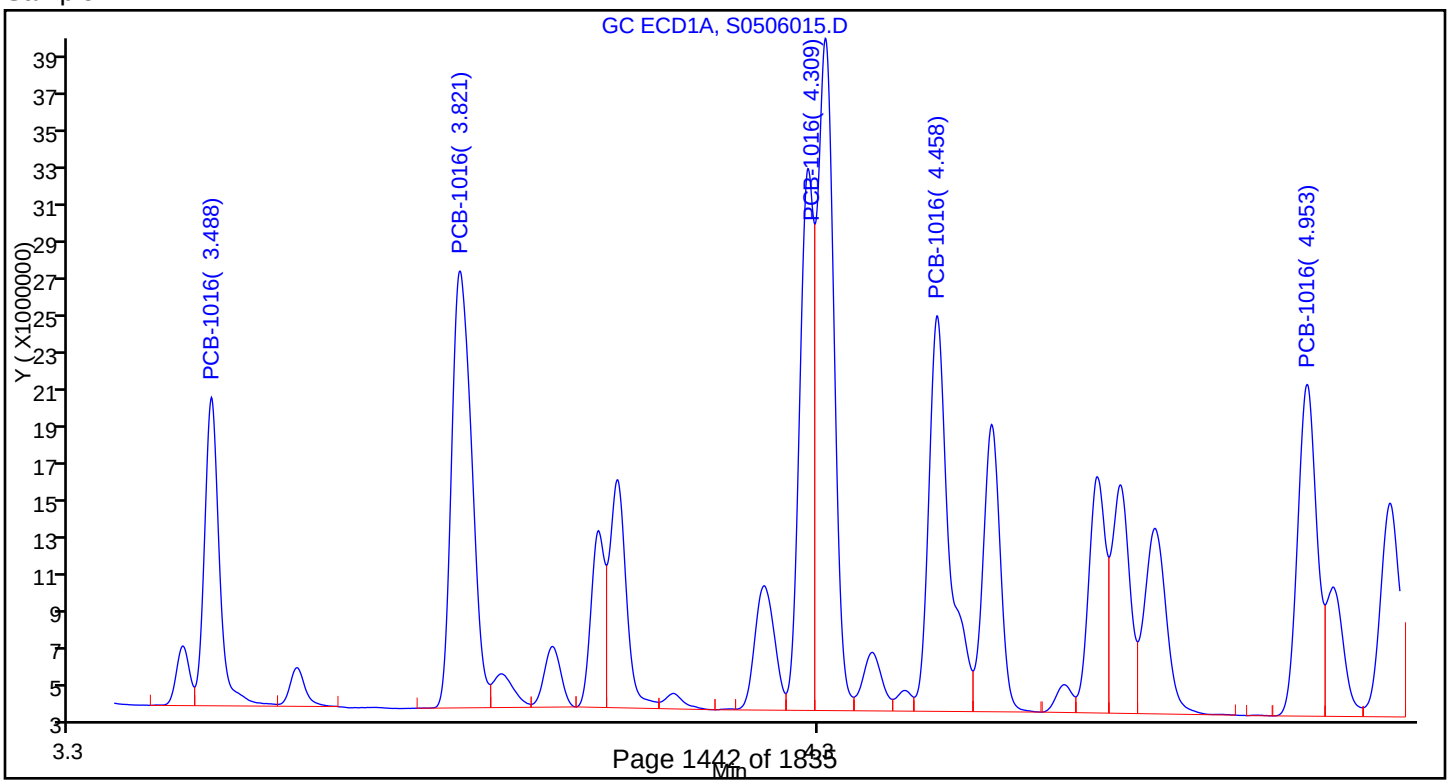
Column: Detector GC ECD1A

3 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



Sample



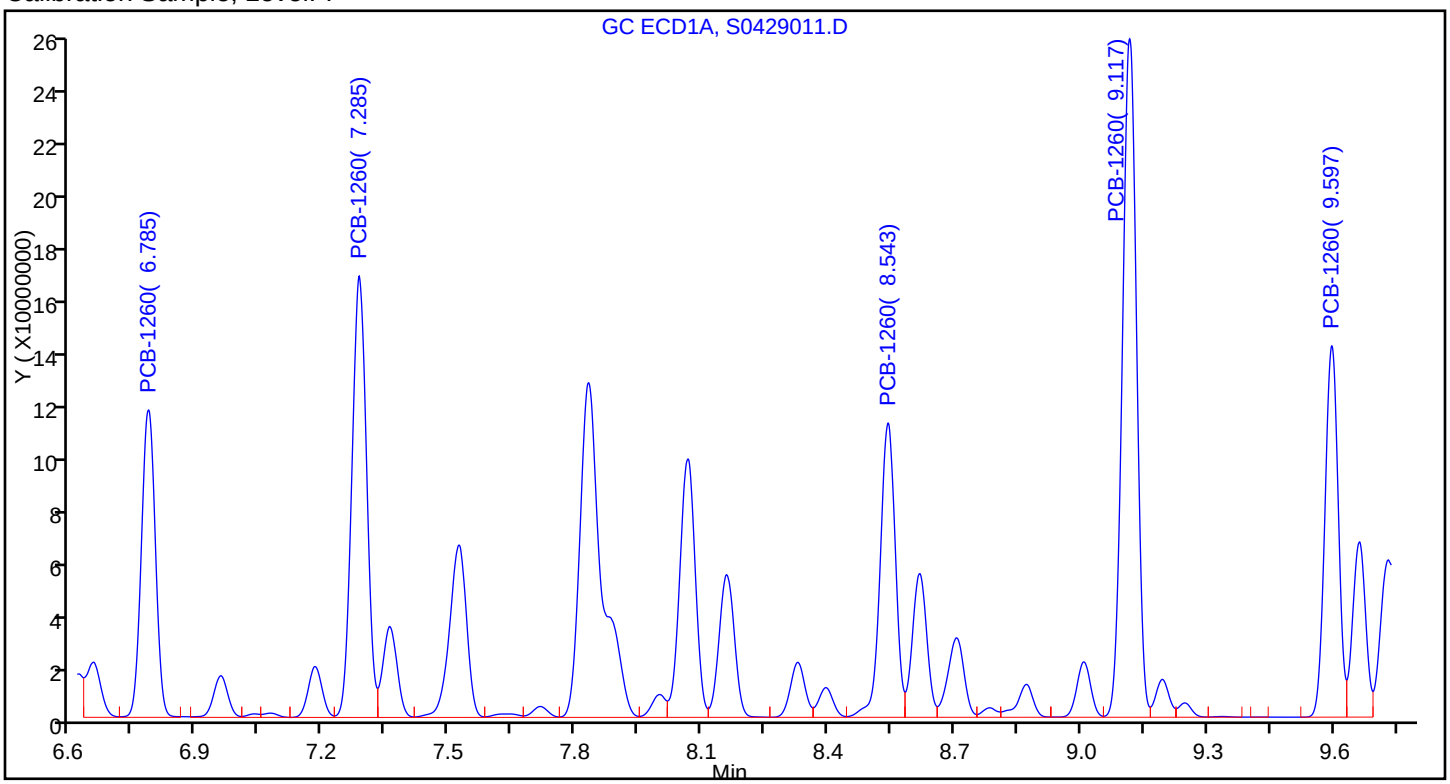
Report Date: 06-May-2015 11:42:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

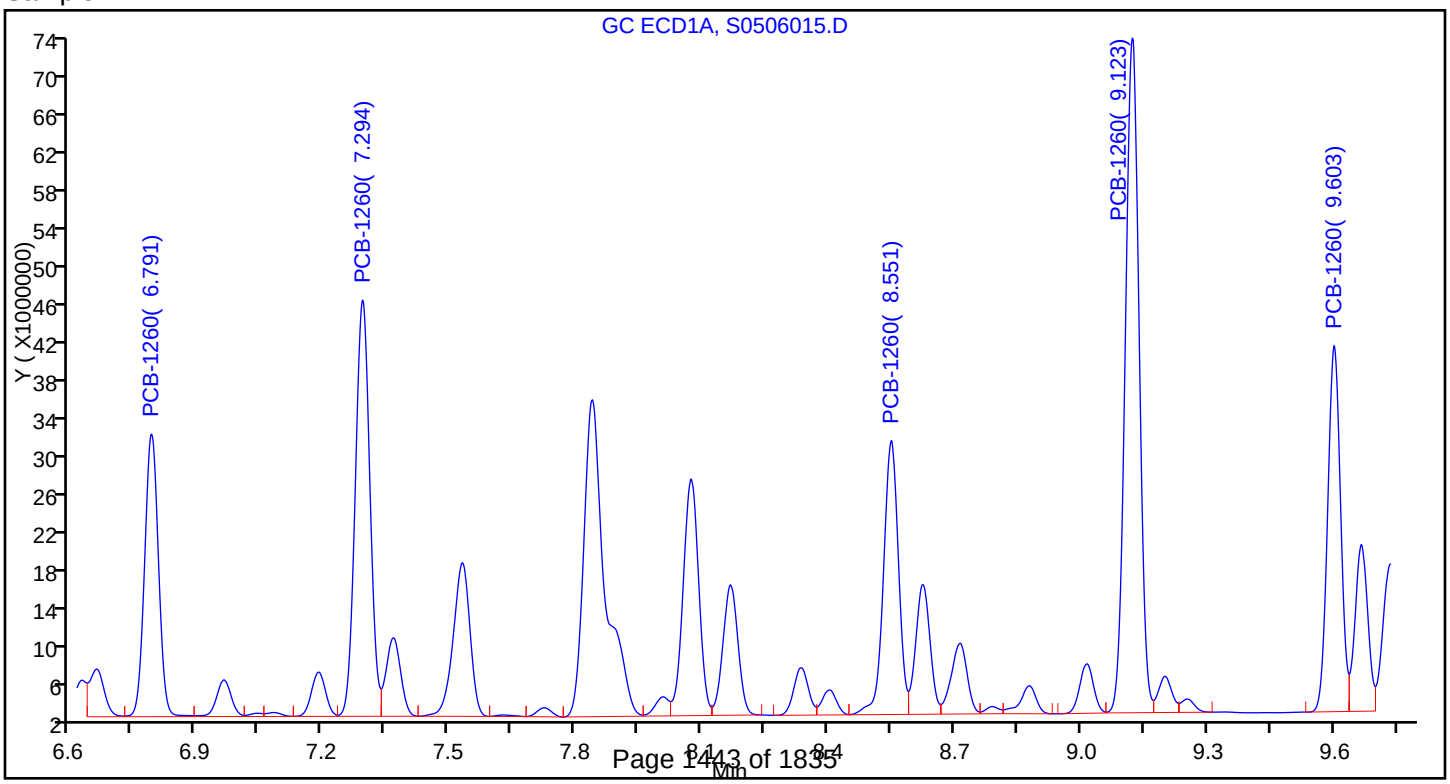
Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506015.D				
Injection Date:	06-May-2015 10:52:22	Instrument ID:	CHGC10		
Lims ID:	LCSD 180-140615/5-A				
Client ID:					
Operator ID:	402331	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		
Column:		Detector	GC ECD1A		

8 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-140615/5-A

Matrix: Water | Lab File ID: S0506015.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/05/2015 11:45

Sample wt/vol: 1000(mL) | Date Analyzed: 05/06/2015 10:52

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140663 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	1.05		0.010	0.0025
11096-82-5	PCB-1260	1.09		0.010	0.0017

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	140	*X*	43-138
877-09-8	Tetrachloro-m-xylene (Surr)	109		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506015.D
Lims ID: LCSD 180-140615/5-A
Client ID:
Sample Type: LCSD
Inject. Date: 06-May-2015 10:52:22 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006784-015
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 06-May-2015 11:42:22 Calib Date: 29-Apr-2015 09:39:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150429-6677.b\S0429011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

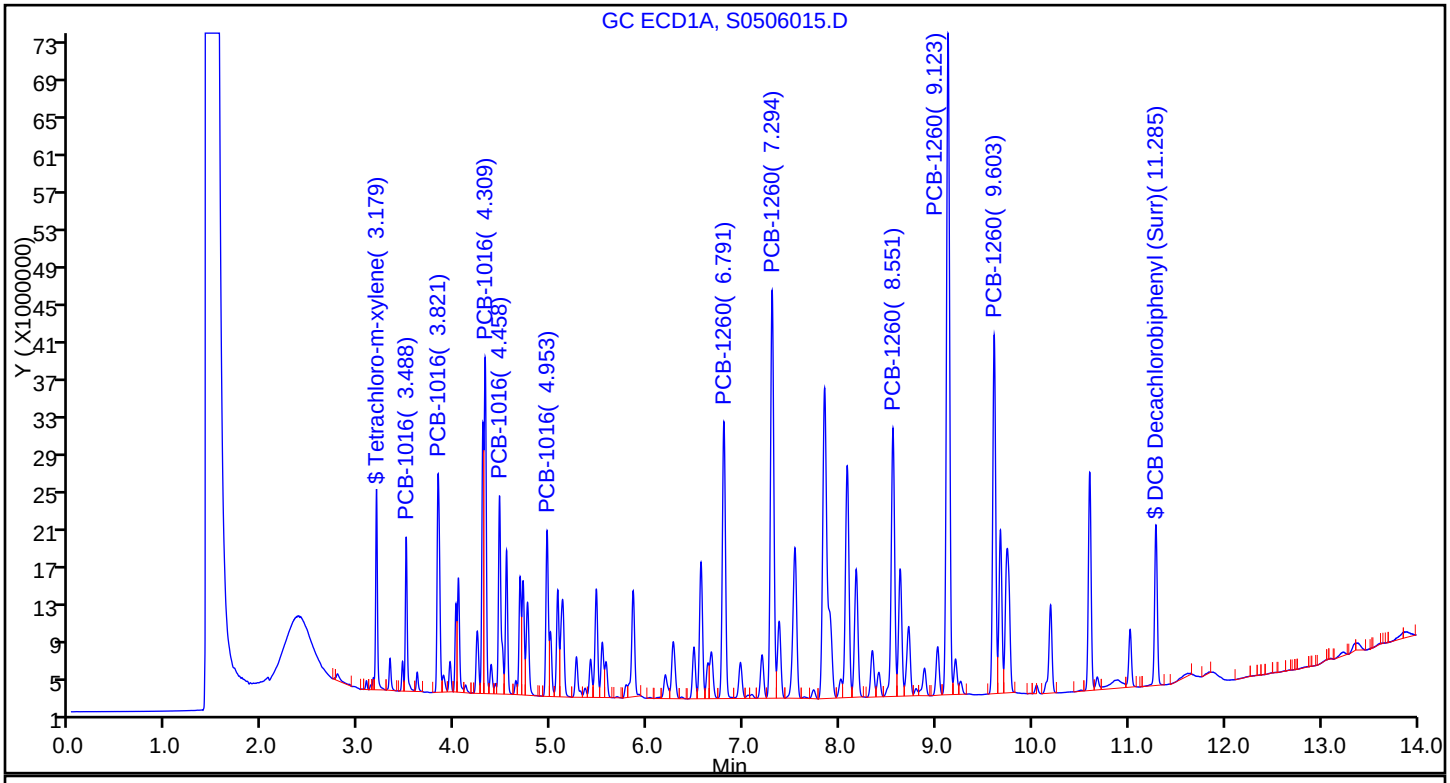
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.173	0.006	21296854H	0.0200	0.0207	
2	3.652	3.647	0.005	17078468H	0.0200	0.0217	
						RPD = 4.78	
3 PCB-1016							
1	3.488	3.483	0.005	16380514H	1.00	0.9281	
1	3.821	3.815	0.006	23194199H	1.00	0.8832	
1	4.309	4.303	0.006	35697887H	1.00	0.9384	
1	4.458	4.453	0.005	20999227H	1.00	0.9314	
1	4.953	4.948	0.005	17610754H	1.00	0.9238	
		Average of Peak Amounts =				0.9210	
2	4.176	4.171	0.005	10871324H	1.00	1.04	
2	4.668	4.663	0.005	14802733H	1.00	1.03	
2	5.301	5.295	0.006	22679354H	1.00	1.08	
2	5.498	5.493	0.005	13688748H	1.00	1.03	
2	6.241	6.236	0.005	11595262H	1.00	1.04	
		Average of Peak Amounts =				1.05	
						RPD = 12.65	

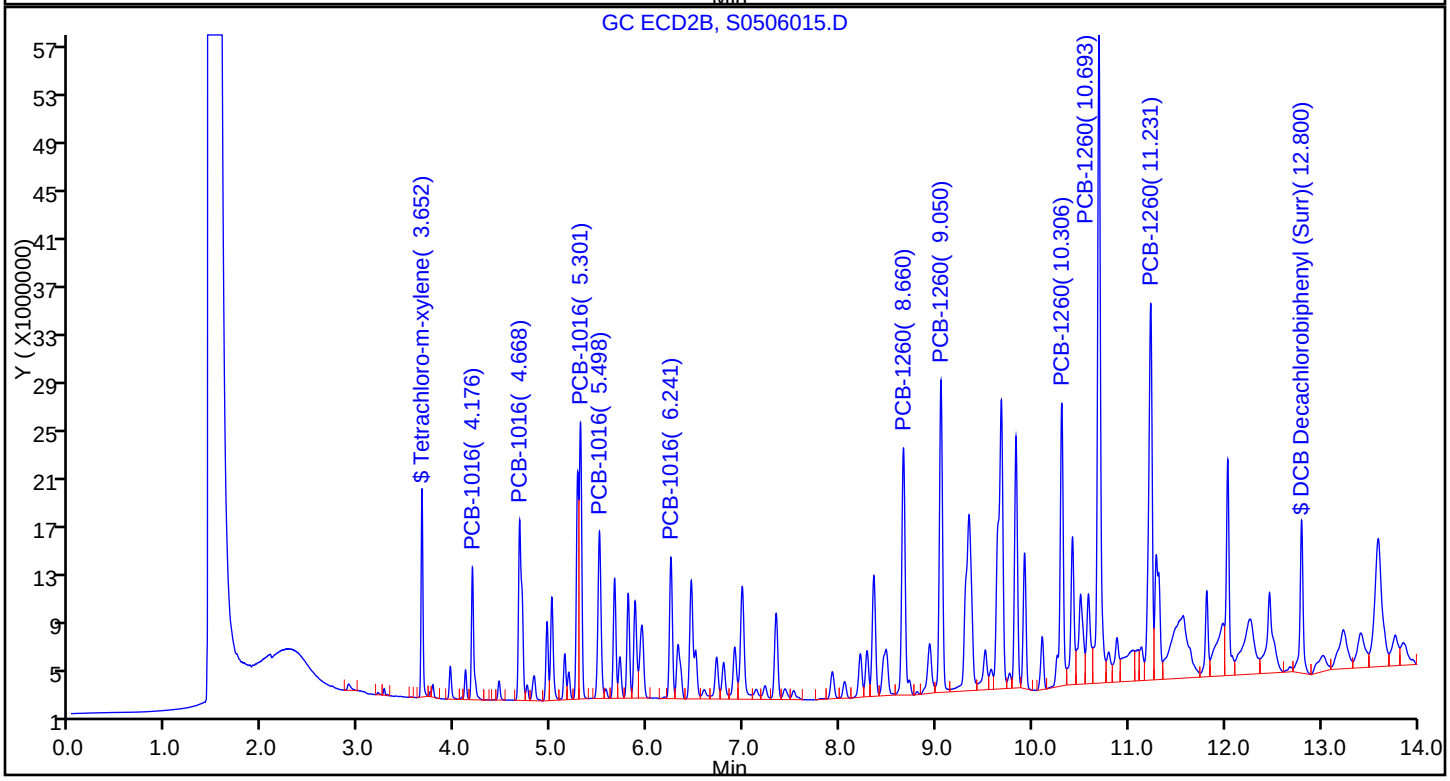
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.791	6.788	0.003	29382142H	1.00	0.9206	
1	7.294	7.289	0.005	43288232H	1.00	0.9504	
1	8.551	8.546	0.005	28493782H	1.00	0.9726	
1	9.123	9.119	0.004	70177918H	1.00	1.01	
1	9.603	9.599	0.004	38061442H	1.00	1.03	
		Average of Peak Amounts =				0.9754	
2	8.660	8.655	0.005	20266629H	1.00	1.03	
2	9.050	9.046	0.004	25616148H	1.00	1.07	
2	10.306	10.303	0.003	23181549H	1.00	1.08	
2	10.693	10.690	0.003	53157742H	1.00	1.13	
2	11.231	11.228	0.003	30897378H	1.00	1.16	
		Average of Peak Amounts =				1.09	
						RPD = 11.41	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.285	11.282	0.003	17049887H	0.0200	0.0221	
2	12.800	12.797	0.003	12543957H	0.0200	0.0280	
						RPD = 23.54	

Report Date: 06-May-2015 11:42:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506015.D				
Injection Date:	06-May-2015 10:52:22	Instrument ID:	CHGC10		
Lims ID:	LCSD 180-140615/5-A				
Client ID:					
Operator ID:	402331	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL		





Report Date: 06-May-2015 11:42:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506015.D

Injection Date: 06-May-2015 10:52:22 Instrument ID: CHGC10

Lims ID: LCSD 180-140615/5-A

Client ID:

Operator ID: 402331 ALS Bottle#: 15 Worklist Smp#: 15

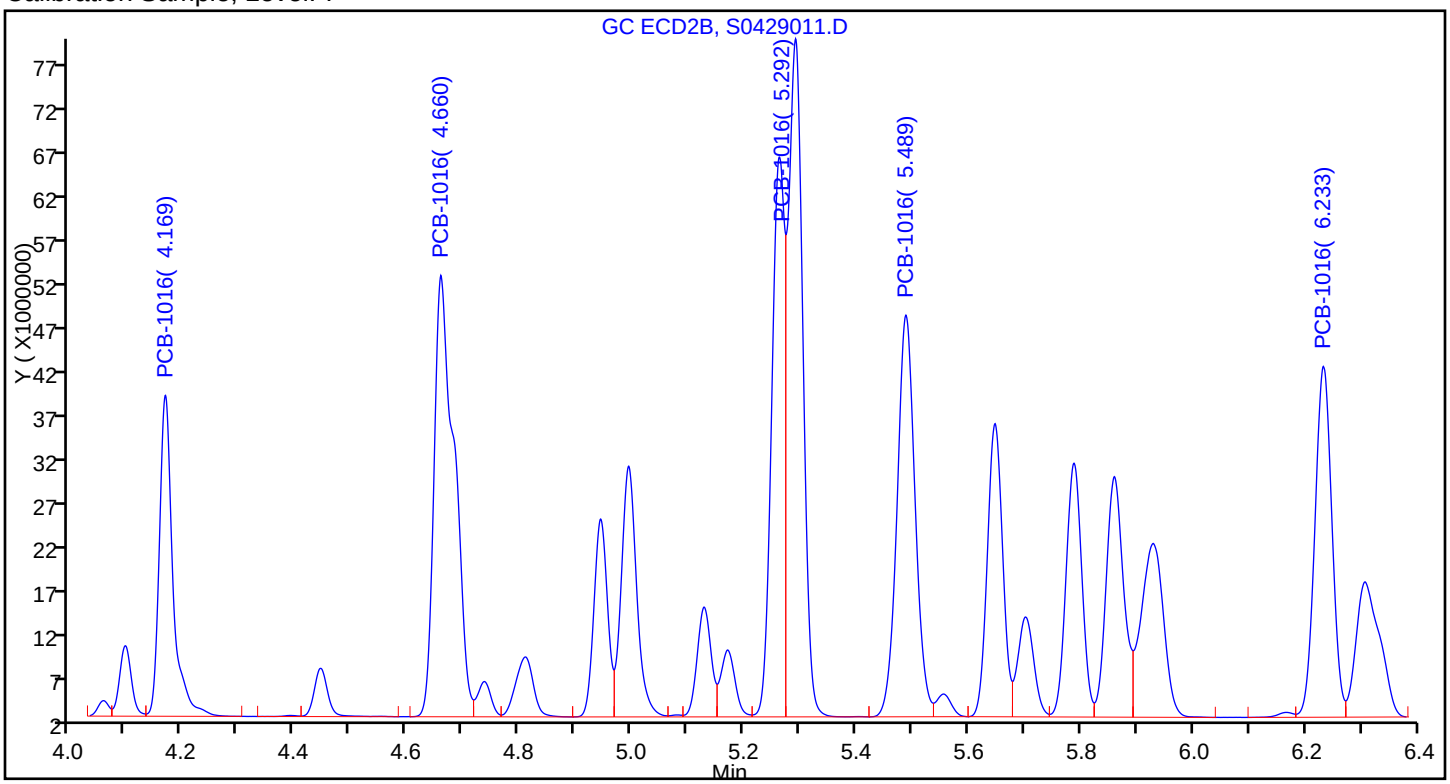
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD2B

3 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



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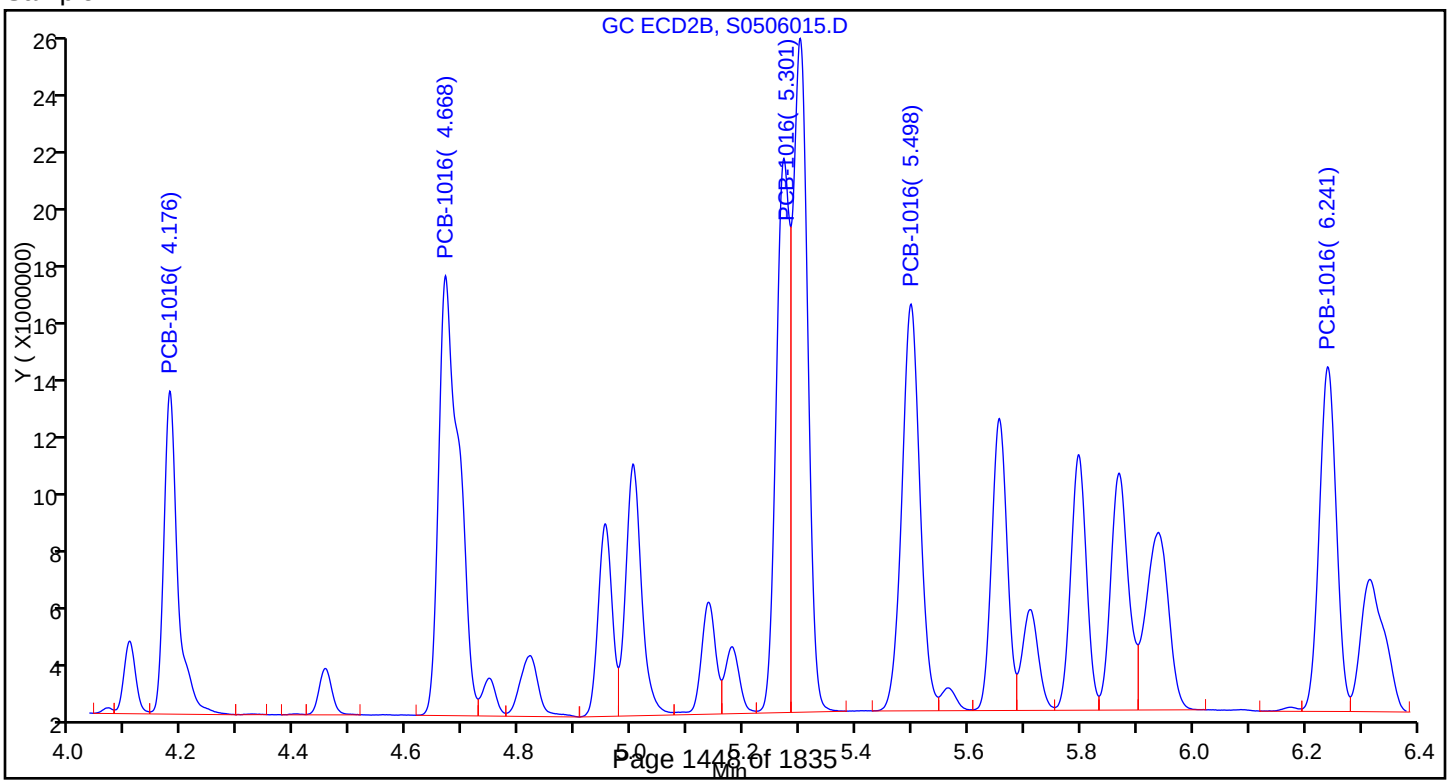


Report Date: 06-May-2015 11:42:27 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6784.b\S0506015.D

Injection Date: 06-May-2015 10:52:22 Instrument ID: CHGC10

Lims ID: LCSD 180-140615/5-A

Client ID:

Operator ID: 402331 ALS Bottle#: 15 Worklist Smp#: 15

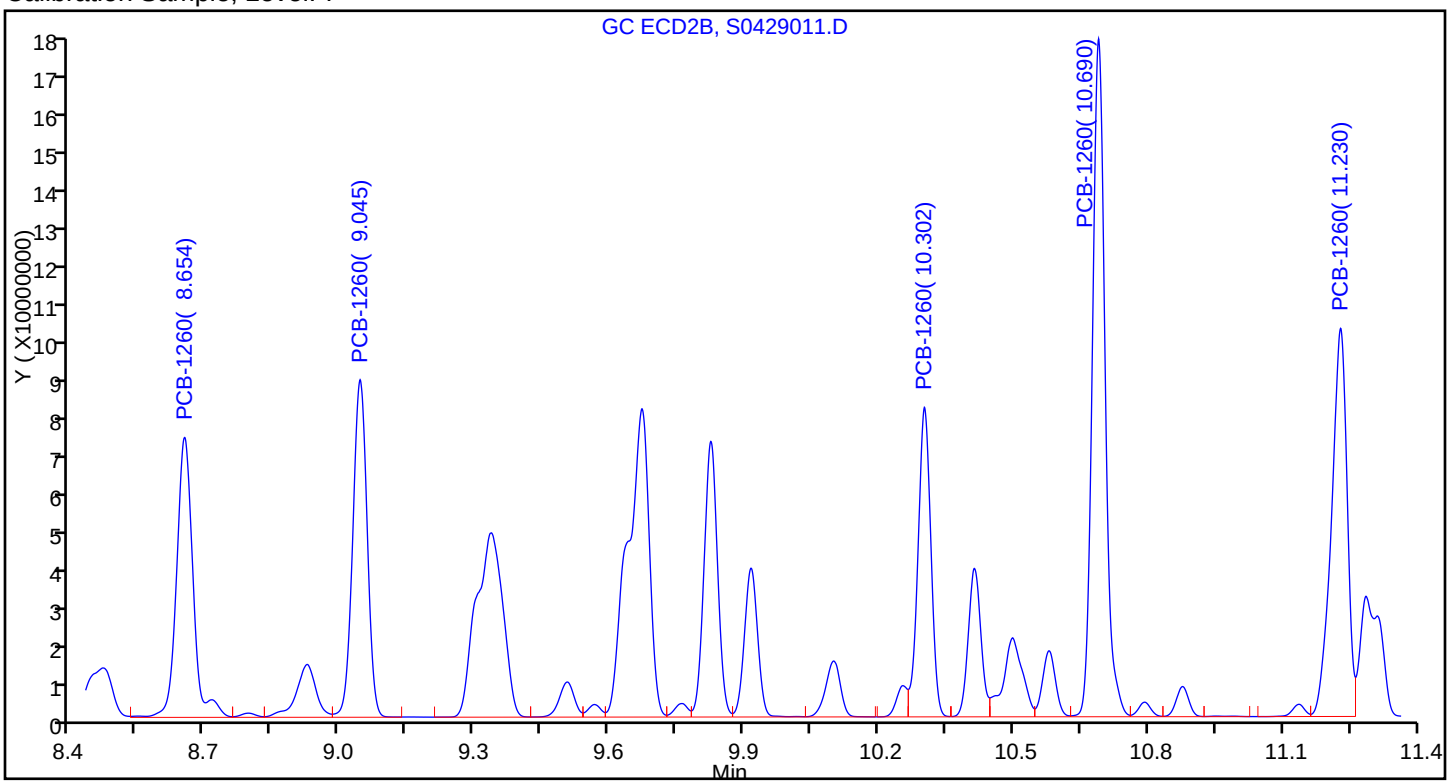
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



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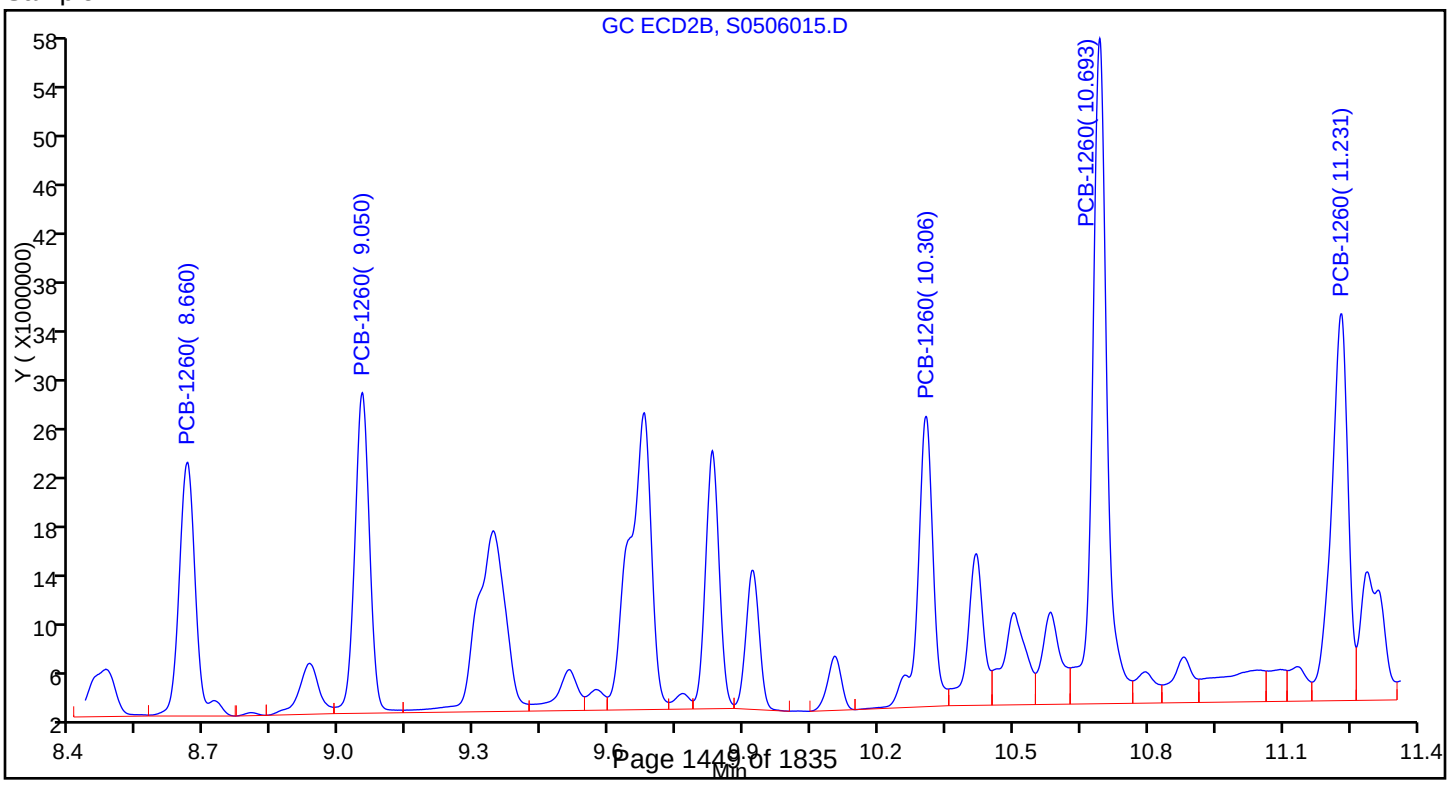


FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-140781/3-A

Matrix: Water | Lab File ID: S0506125.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/06/2015 12:40

Sample wt/vol: 1000(mL) | Date Analyzed: 05/07/2015 06:37

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.831		0.010	0.0025
11096-82-5	PCB-1260	0.833		0.010	0.0017

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	87		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	98		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506125.D
Lims ID: LCSD 180-140781/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 07-May-2015 06:37:50 ALS Bottle#: 5 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-025
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:40 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.172	0.007	20294773H	0.0200	0.0195	
2	3.651	3.643	0.008	16545258H	0.0200	0.0184	
						RPD = 6.00	
3 PCB-1016							
1	3.488	3.483	0.005	15853795H	1.00	0.8146	
1	3.820	3.816	0.004	22722690H	1.00	0.8046	
1	4.309	4.307	0.002	34686645H	1.00	0.8417	
1	4.458	4.456	0.002	20488315H	1.00	0.8288	
1	4.952	4.953	-0.001	17387965H	1.00	0.8656	
		Average of Peak Amounts =				0.8311	
2	4.176	4.168	0.008	10522280H	1.00	0.8170	
2	4.667	4.661	0.006	14605558H	1.00	0.8303	
2	5.299	5.293	0.006	21997856H	1.00	0.8544	
2	5.496	5.491	0.005	13393075H	1.00	0.8277	
2	6.241	6.235	0.006	11601733H	1.00	0.8597	
		Average of Peak Amounts =				0.8378	
						RPD = 0.81	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.792	6.796	-0.004	28205608H	1.00	0.8324	
1	7.293	7.296	-0.003	40831159H	1.00	0.8327	
1	8.550	8.555	-0.005	26952800H	1.00	0.8355	
1	9.123	9.129	-0.006	66109569H	1.00	0.8301	
1	9.603	9.607	-0.004	35680239H	1.00	0.8355	
		Average of Peak Amounts =				0.8332	
2	8.660	8.655	0.005	19866505H	1.00	0.8341	
2	9.050	9.046	0.004	24051203H	1.00	0.8101	
2	10.306	10.301	0.005	22366131H	1.00	0.8256	
2	10.693	10.690	0.003	48040395H	1.00	0.7977	
2	11.231	11.228	0.003	28448374H	1.00	0.8070	
		Average of Peak Amounts =				0.8149	
						RPD = 2.22	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.286	11.290	-0.004	16095522H	0.0200	0.0174	
2	12.800	12.798	0.002	10631548H	0.0200	0.0177	
						RPD = 1.48	

Report Date: 07-May-2015 09:32:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506125.D

Injection Date: 07-May-2015 06:37:50 Instrument ID: CHGC10

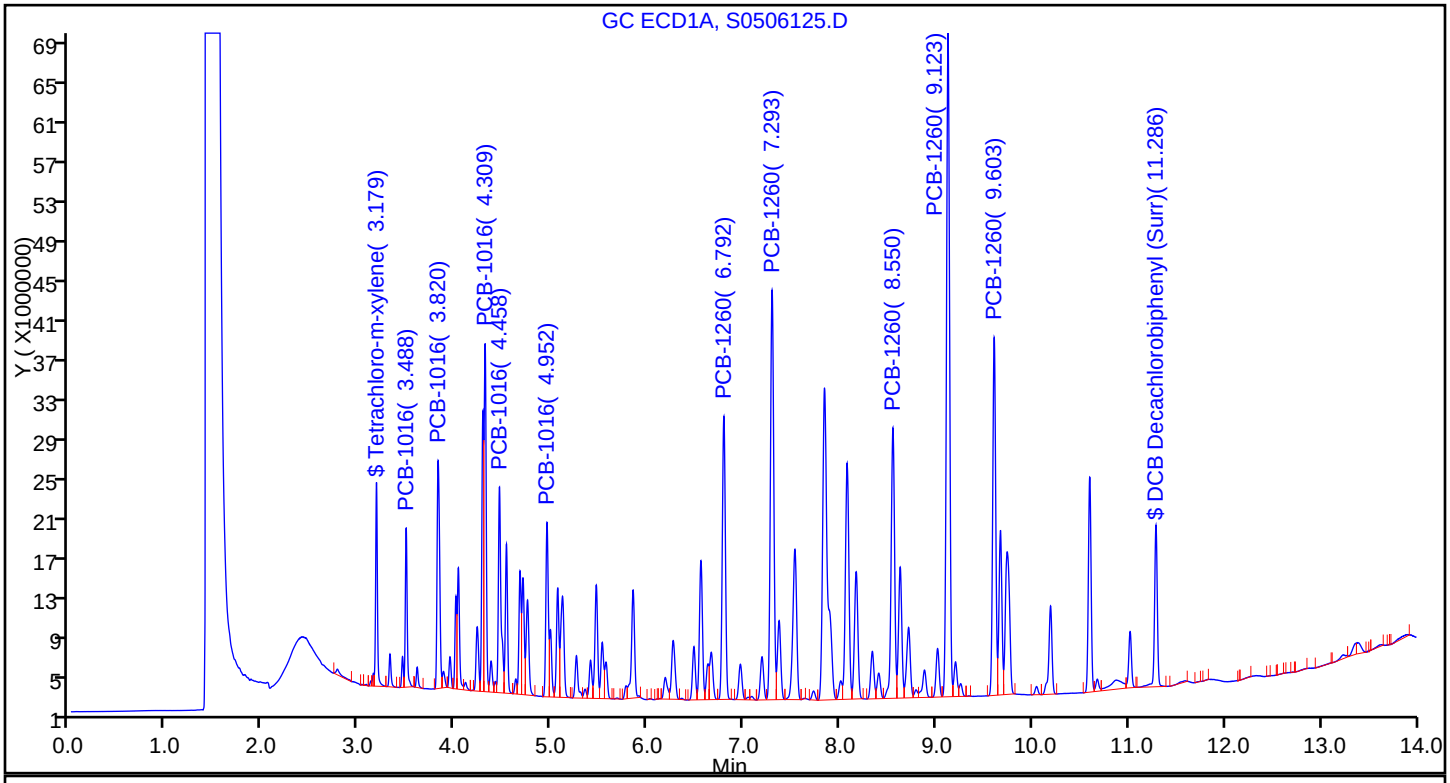
Lims ID: LCSD 180-140781/3-A

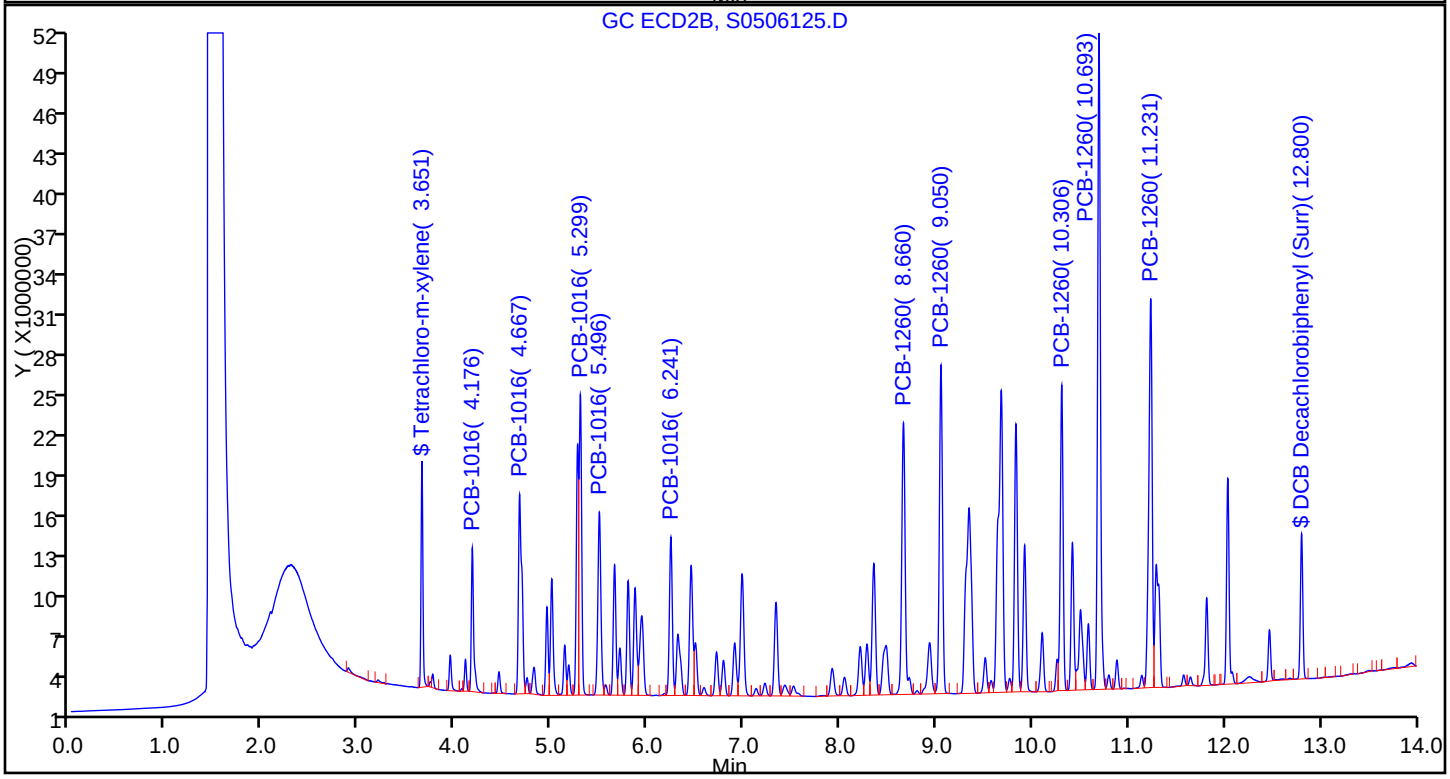
Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





Report Date: 07-May-2015 09:32:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506125.D

Injection Date: 07-May-2015 06:37:50 Instrument ID: CHGC10

Lims ID: LCSD 180-140781/3-A

Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 25

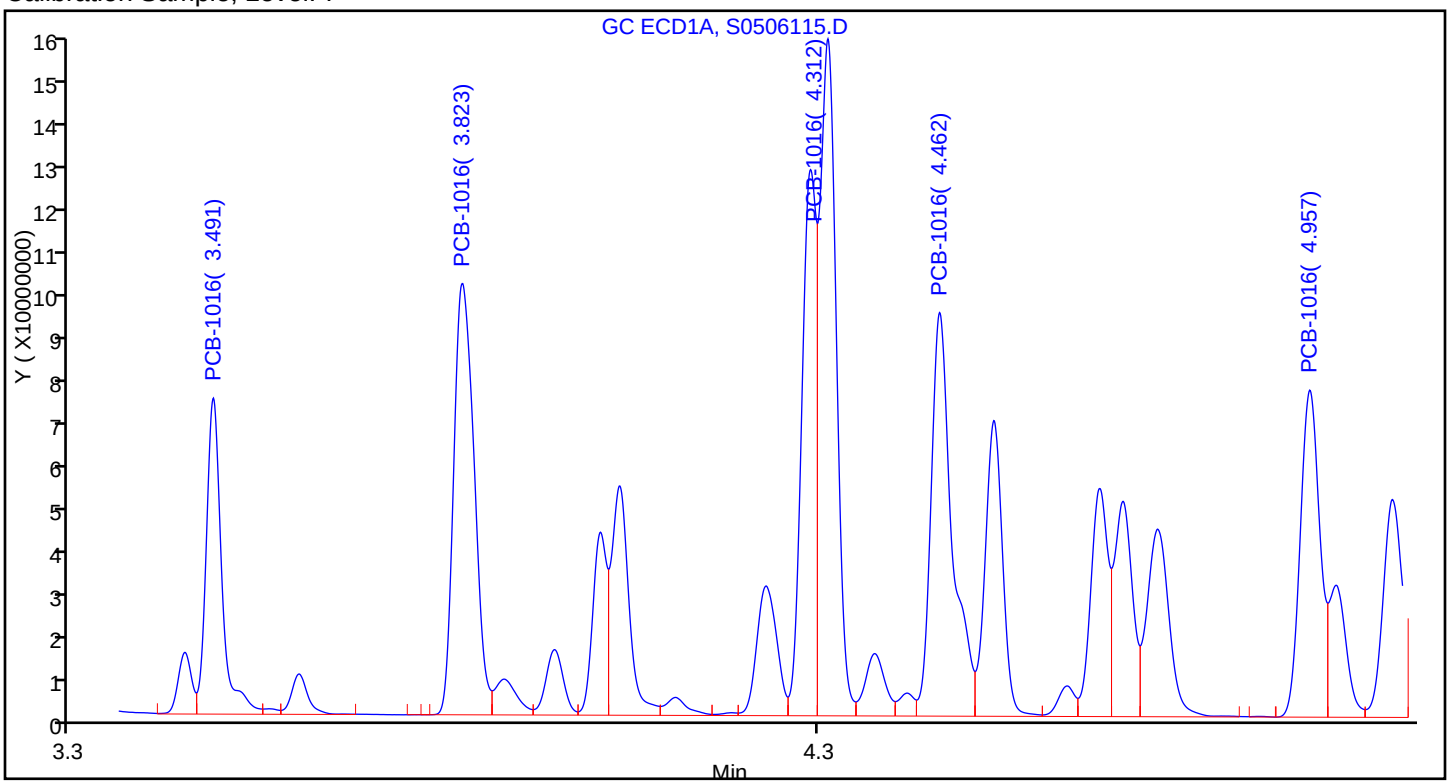
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD1A

3 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



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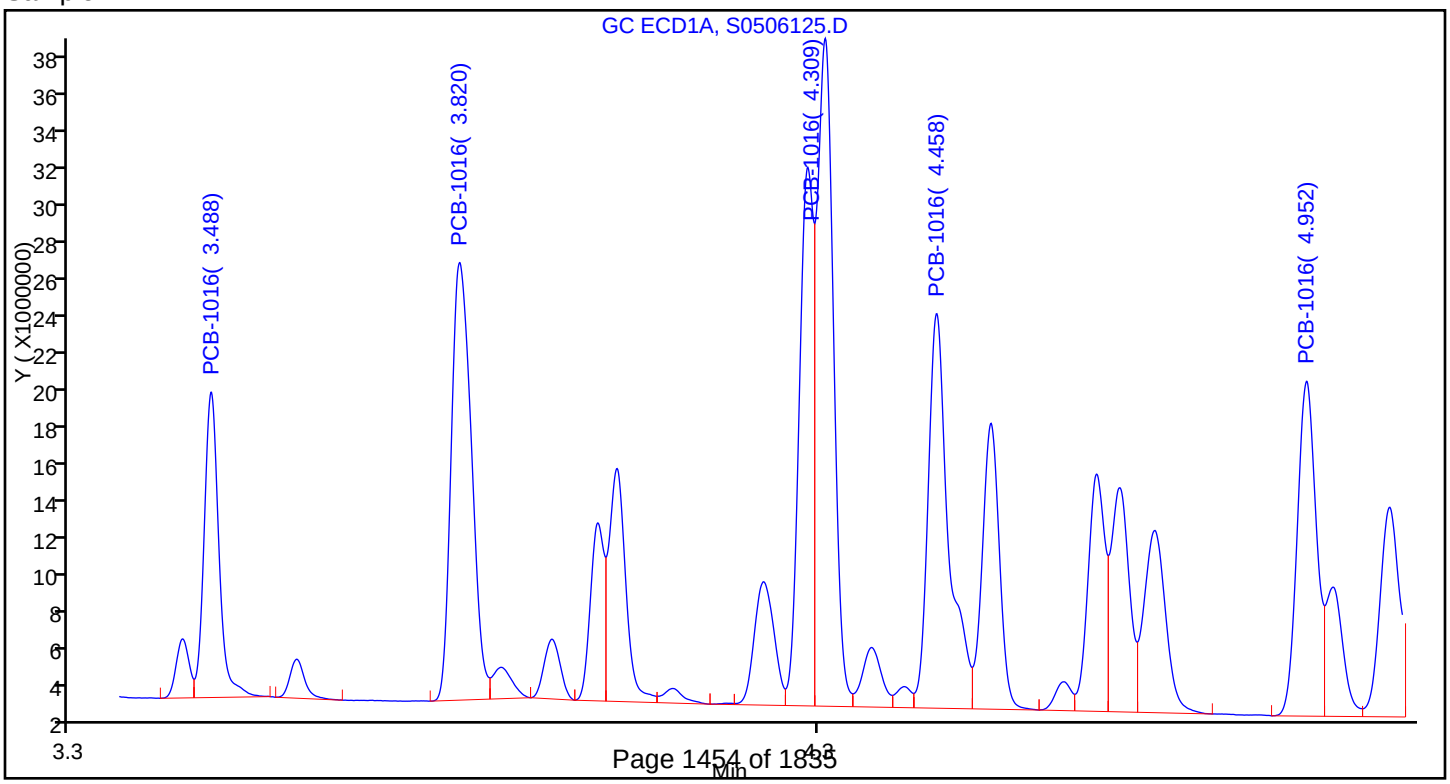


Report Date: 07-May-2015 09:32:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506125.D

Injection Date: 07-May-2015 06:37:50 Instrument ID: CHGC10

Lims ID: LCSD 180-140781/3-A

Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 25

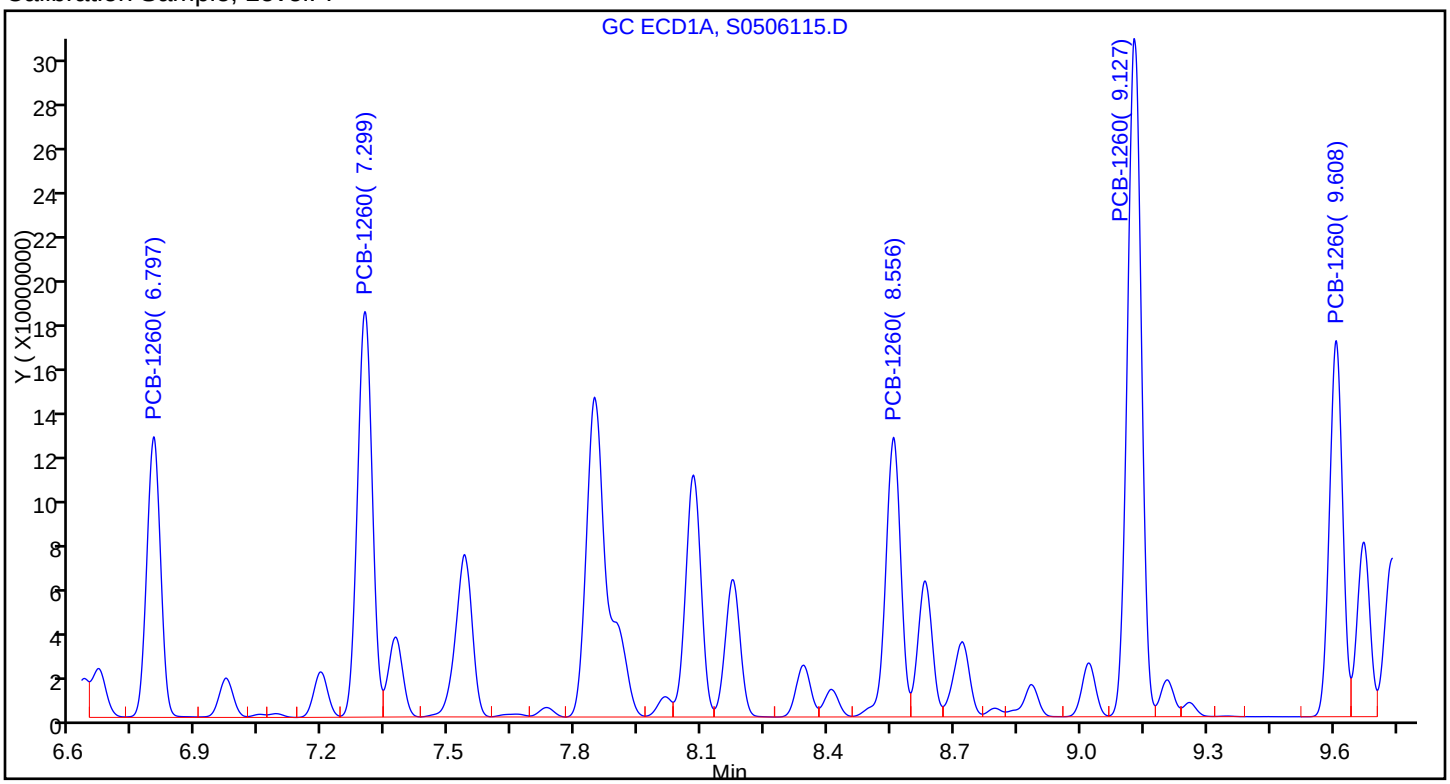
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD1A

8 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



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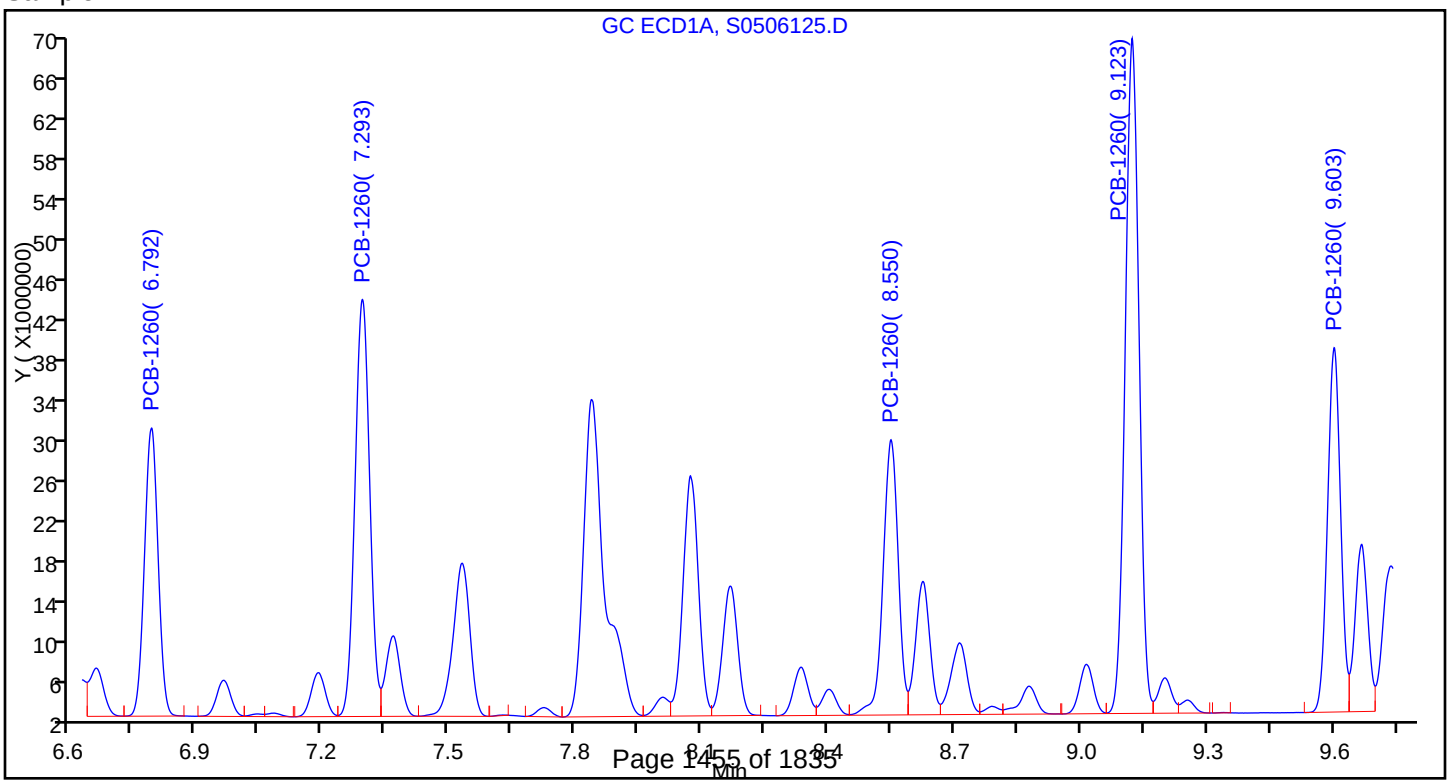


FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-140781/3-A

Matrix: Water | Lab File ID: S0506125.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/06/2015 12:40

Sample wt/vol: 1000(mL) | Date Analyzed: 05/07/2015 06:37

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 140736 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	88		43-138
877-09-8	Tetrachloro-m-xylene (Surr)	92		34-137

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506125.D
Lims ID: LCSD 180-140781/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 07-May-2015 06:37:50 ALS Bottle#: 5 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0006800-025
Operator ID: 402331 Instrument ID: CHGC10

Method: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL
Last Update: 07-May-2015 09:32:40 Calib Date: 06-May-2015 16:34:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506115.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 2 Tetrachloro-m-xylene							
1	3.179	3.172	0.007	20294773H	0.0200	0.0195	
2	3.651	3.643	0.008	16545258H	0.0200	0.0184	
						RPD = 6.00	
3 PCB-1016							
1	3.488	3.483	0.005	15853795H	1.00	0.8146	
1	3.820	3.816	0.004	22722690H	1.00	0.8046	
1	4.309	4.307	0.002	34686645H	1.00	0.8417	
1	4.458	4.456	0.002	20488315H	1.00	0.8288	
1	4.952	4.953	-0.001	17387965H	1.00	0.8656	
		Average of Peak Amounts =				0.8311	
2	4.176	4.168	0.008	10522280H	1.00	0.8170	
2	4.667	4.661	0.006	14605558H	1.00	0.8303	
2	5.299	5.293	0.006	21997856H	1.00	0.8544	
2	5.496	5.491	0.005	13393075H	1.00	0.8277	
2	6.241	6.235	0.006	11601733H	1.00	0.8597	
		Average of Peak Amounts =				0.8378	
						RPD = 0.81	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 PCB-1260							
1	6.792	6.796	-0.004	28205608H	1.00	0.8324	
1	7.293	7.296	-0.003	40831159H	1.00	0.8327	
1	8.550	8.555	-0.005	26952800H	1.00	0.8355	
1	9.123	9.129	-0.006	66109569H	1.00	0.8301	
1	9.603	9.607	-0.004	35680239H	1.00	0.8355	
		Average of Peak Amounts =				0.8332	
2	8.660	8.655	0.005	19866505H	1.00	0.8341	
2	9.050	9.046	0.004	24051203H	1.00	0.8101	
2	10.306	10.301	0.005	22366131H	1.00	0.8256	
2	10.693	10.690	0.003	48040395H	1.00	0.7977	
2	11.231	11.228	0.003	28448374H	1.00	0.8070	
		Average of Peak Amounts =				0.8149	
						RPD = 2.22	
$ 11 DCB Decachlorobiphenyl (Surr)							
1	11.286	11.290	-0.004	16095522H	0.0200	0.0174	
2	12.800	12.798	0.002	10631548H	0.0200	0.0177	
						RPD = 1.48	

Report Date: 07-May-2015 09:32:52 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506125.D

Injection Date: 07-May-2015 06:37:50 Instrument ID: CHGC10

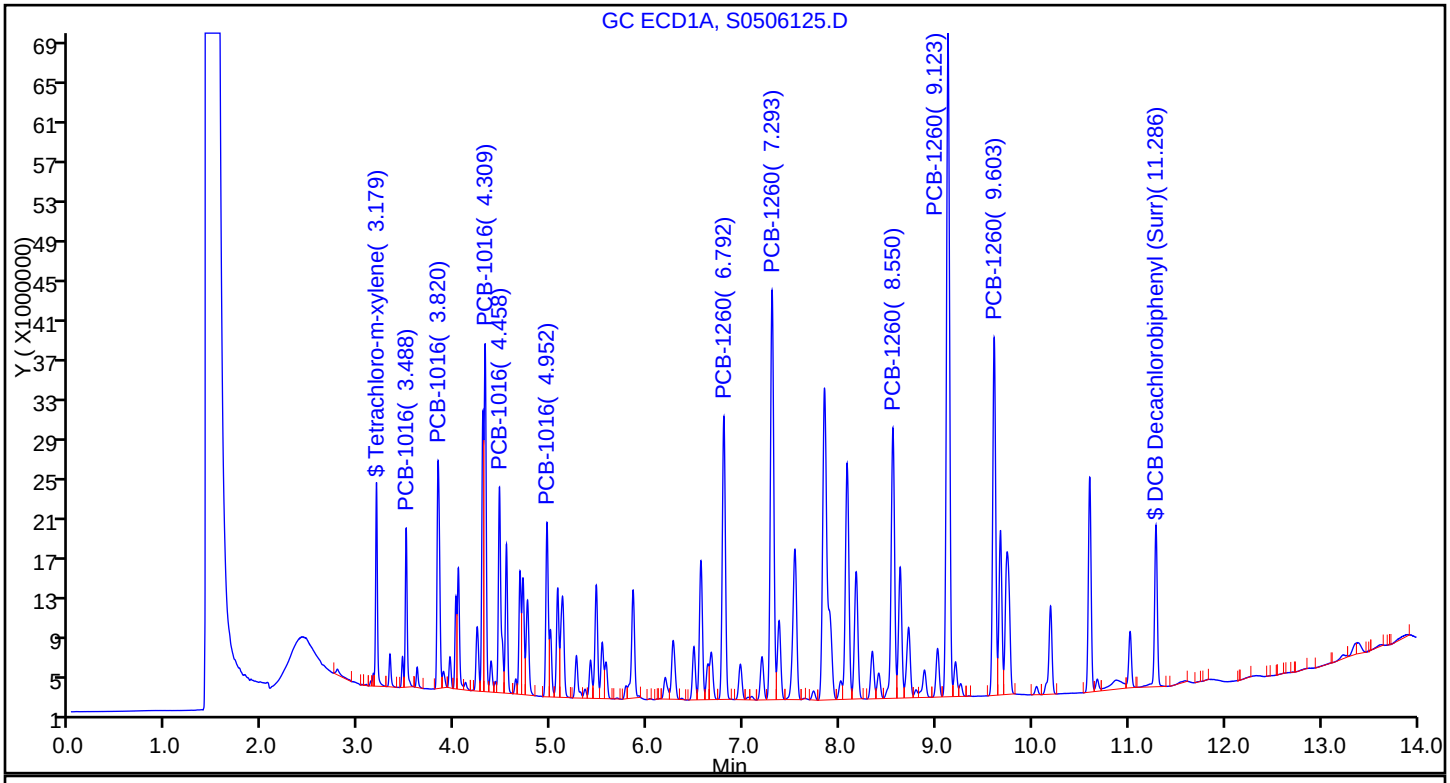
Lims ID: LCSD 180-140781/3-A

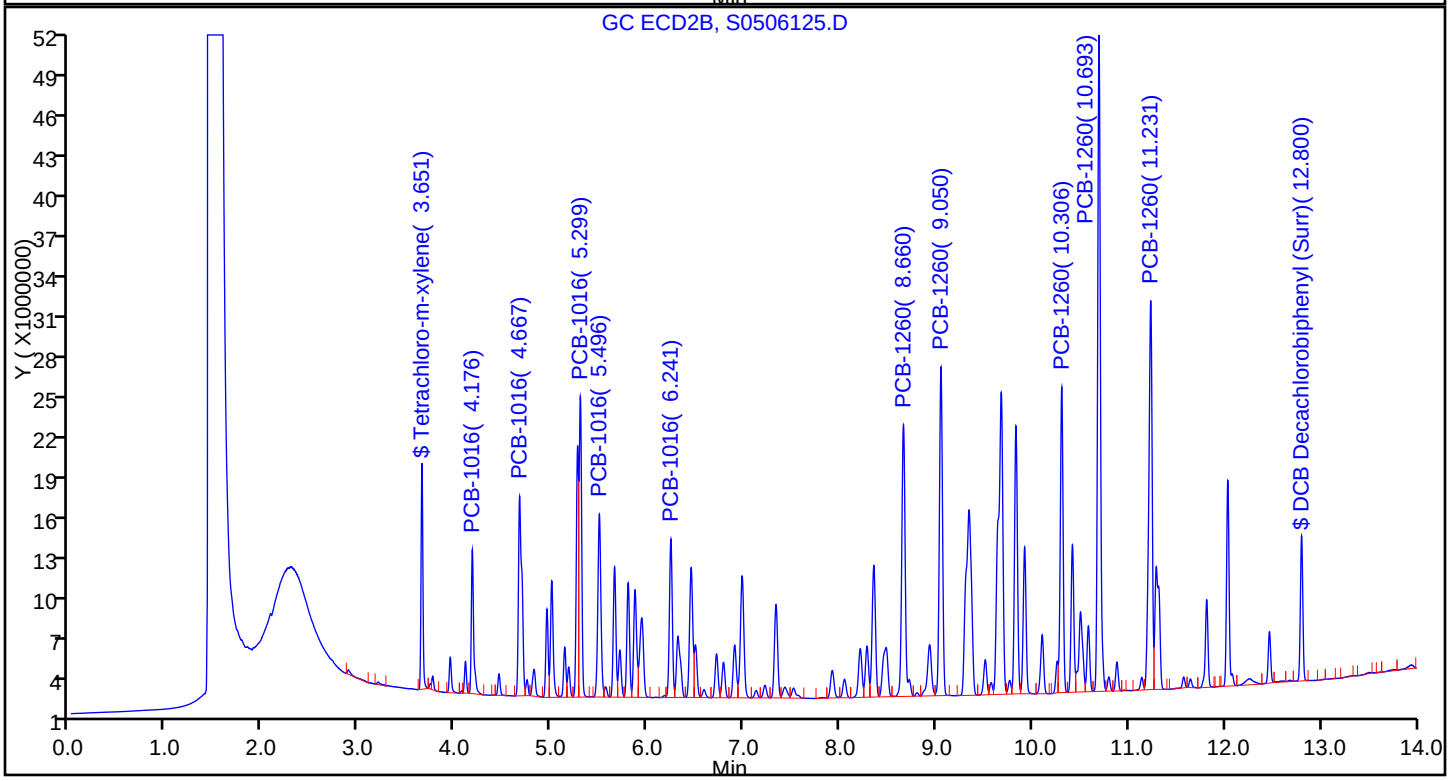
Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL





Report Date: 07-May-2015 09:32:52 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506125.D

Injection Date: 07-May-2015 06:37:50 Instrument ID: CHGC10

Lims ID: LCSD 180-140781/3-A

Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 25

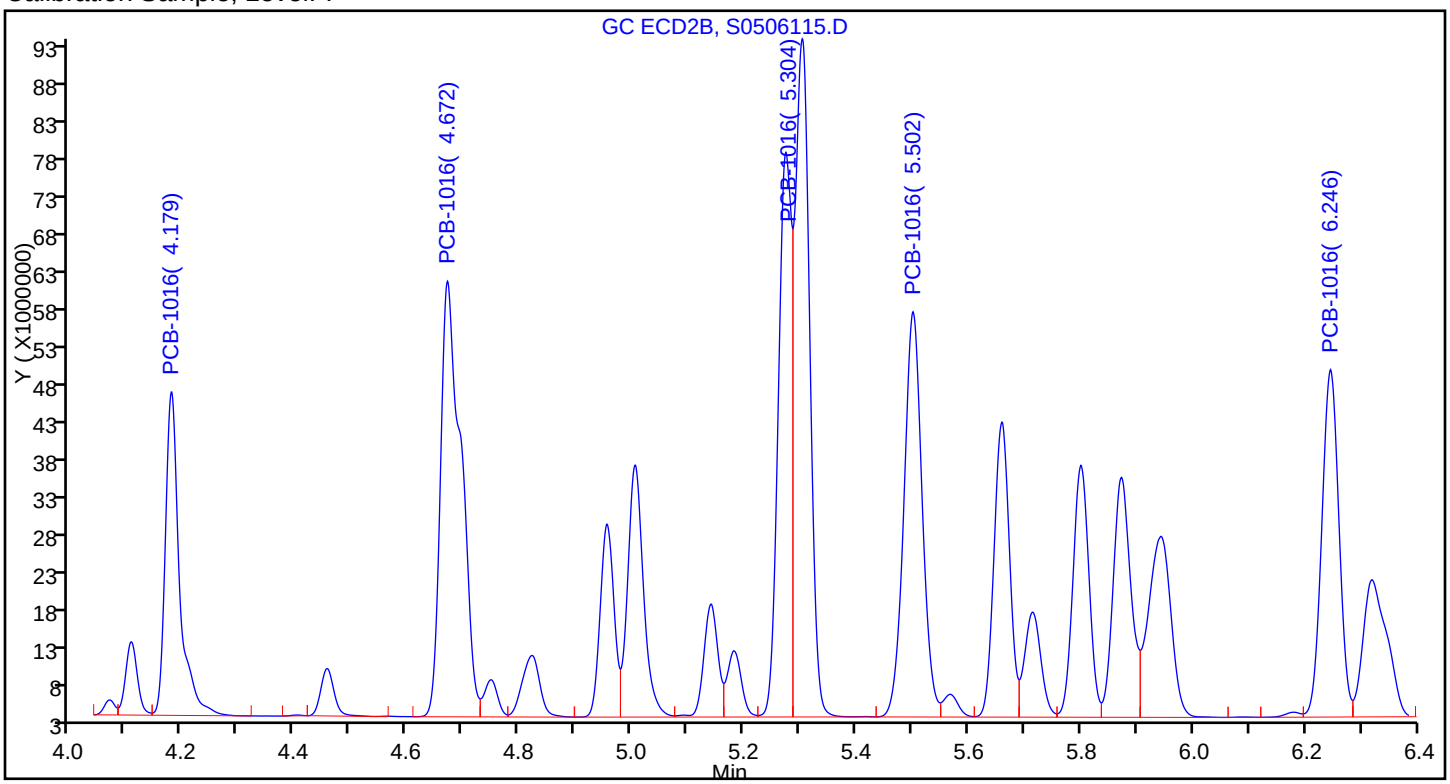
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD2B

3 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



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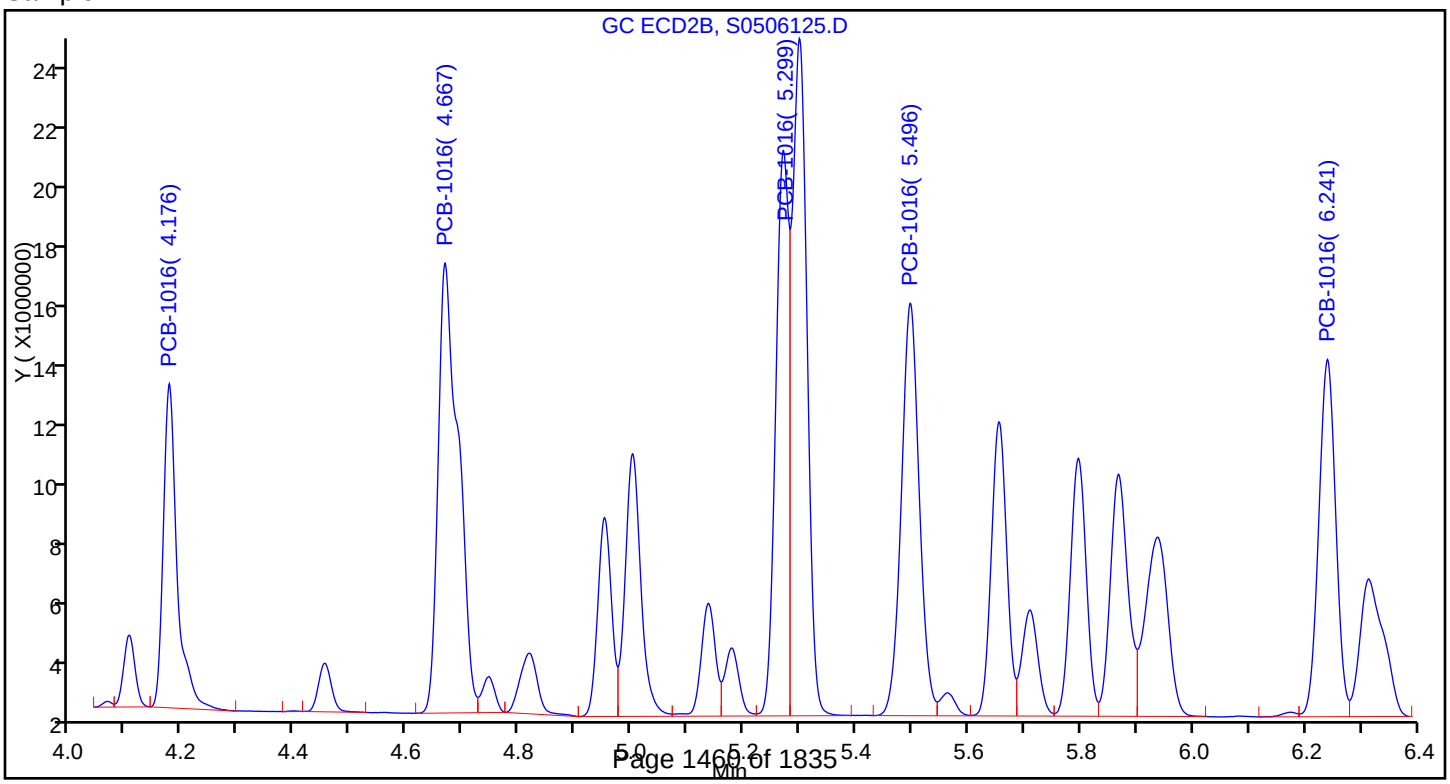


Report Date: 07-May-2015 09:32:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHGC10\20150506-6800.b\S0506125.D

Injection Date: 07-May-2015 06:37:50 Instrument ID: CHGC10

Lims ID: LCSD 180-140781/3-A

Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 25

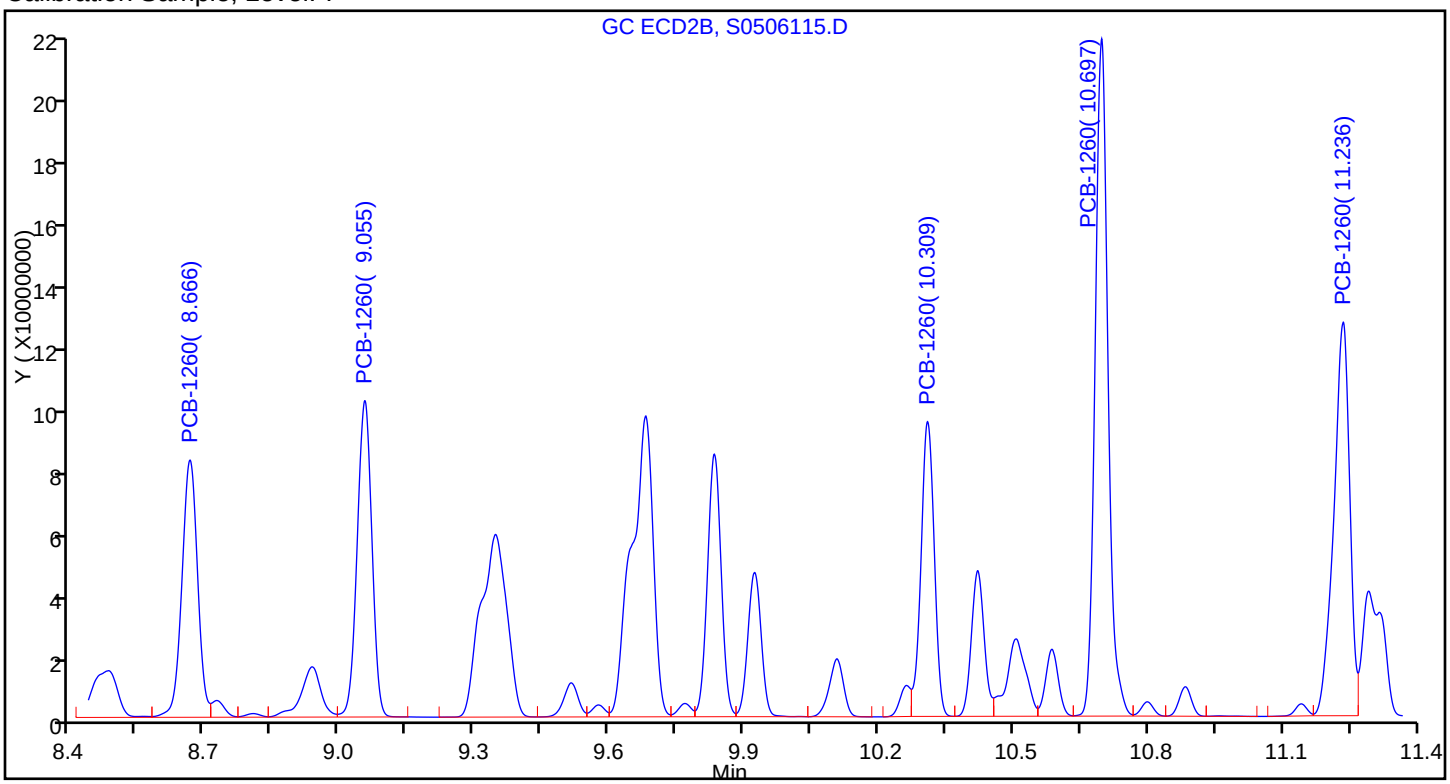
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL

Column: Detector GC ECD2B

8 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



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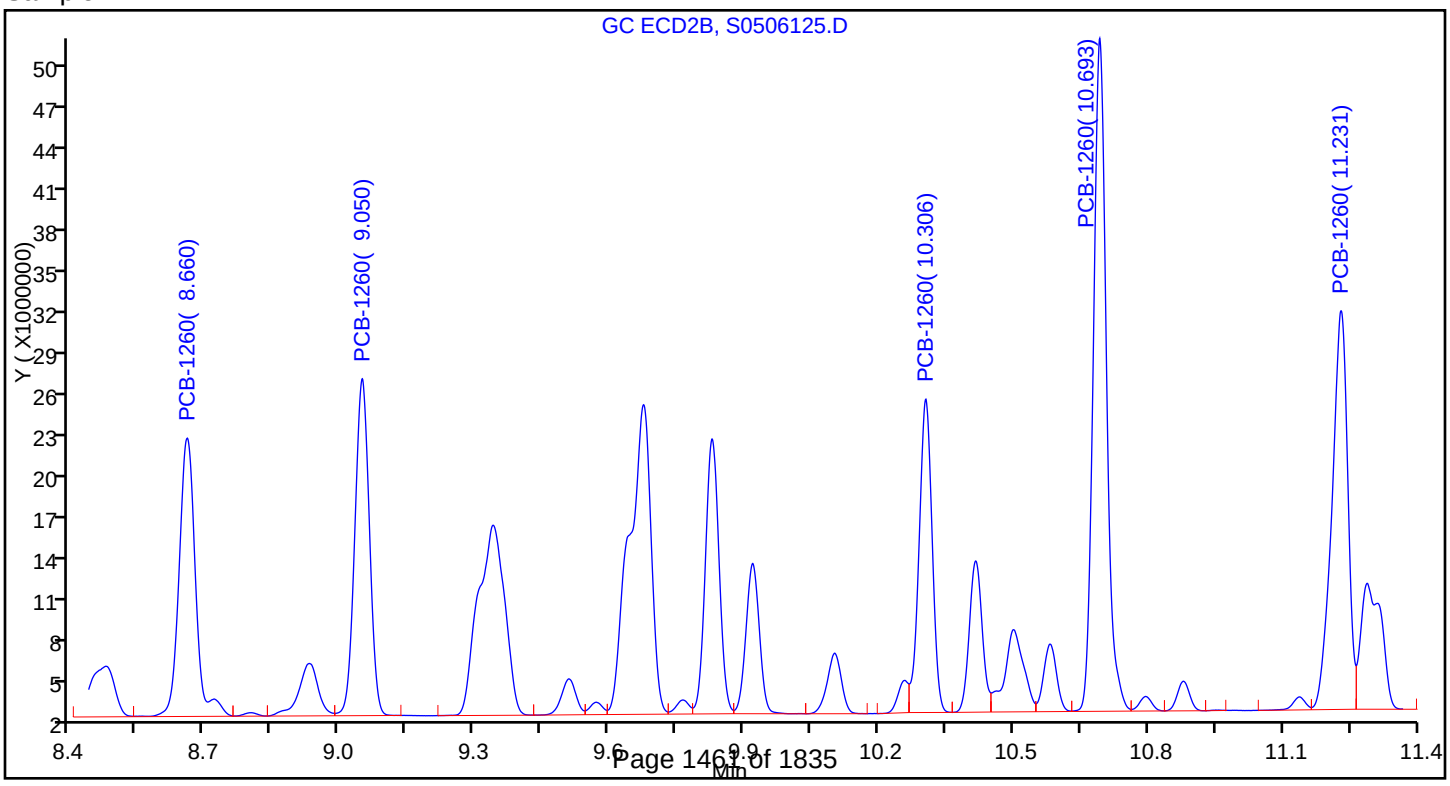

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHGC10 Start Date: 04/29/2015 06:31

Analysis Batch Number: 139955 End Date: 04/29/2015 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 180-139955/1		04/29/2015 06:31	1	S0429001.D	RTX-CLP1 0.53(mm)
IC 180-139955/1		04/29/2015 06:31	1	S0429001.D	RTX-CLP2 0.53(mm)
IC 180-139955/2		04/29/2015 06:50	1	S0429002.D	RTX-CLP1 0.53(mm)
IC 180-139955/2		04/29/2015 06:50	1	S0429002.D	RTX-CLP2 0.53(mm)
IC 180-139955/3		04/29/2015 07:08	1	S0429003.D	RTX-CLP1 0.53(mm)
IC 180-139955/3		04/29/2015 07:08	1	S0429003.D	RTX-CLP2 0.53(mm)
IC 180-139955/4		04/29/2015 07:27	1	S0429004.D	RTX-CLP1 0.53(mm)
IC 180-139955/4		04/29/2015 07:27	1	S0429004.D	RTX-CLP2 0.53(mm)
IC 180-139955/5		04/29/2015 07:46	1	S0429005.D	RTX-CLP1 0.53(mm)
IC 180-139955/5		04/29/2015 07:46	1	S0429005.D	RTX-CLP2 0.53(mm)
IC 180-139955/6		04/29/2015 08:05	1	S0429006.D	RTX-CLP1 0.53(mm)
IC 180-139955/6		04/29/2015 08:05	1	S0429006.D	RTX-CLP2 0.53(mm)
IC 180-139955/7		04/29/2015 08:23	1	S0429007.D	RTX-CLP1 0.53(mm)
IC 180-139955/7		04/29/2015 08:23	1	S0429007.D	RTX-CLP2 0.53(mm)
ICRT 180-139955/8		04/29/2015 08:42	1	S0429008.D	RTX-CLP1 0.53(mm)
ICRT 180-139955/8		04/29/2015 08:42	1	S0429008.D	RTX-CLP2 0.53(mm)
IC 180-139955/9		04/29/2015 09:01	1	S0429009.D	RTX-CLP1 0.53(mm)
IC 180-139955/9		04/29/2015 09:01	1	S0429009.D	RTX-CLP2 0.53(mm)
IC 180-139955/10		04/29/2015 09:20	1	S0429010.D	RTX-CLP1 0.53(mm)
IC 180-139955/10		04/29/2015 09:20	1	S0429010.D	RTX-CLP2 0.53(mm)
IC 180-139955/11		04/29/2015 09:39	1	S0429011.D	RTX-CLP1 0.53(mm)
IC 180-139955/11		04/29/2015 09:39	1	S0429011.D	RTX-CLP2 0.53(mm)
ICV 180-139955/12		04/29/2015 09:57	1		RTX-CLP1 0.53(mm)
ICV 180-139955/12		04/29/2015 09:57	1		RTX-CLP2 0.53(mm)
ICV 180-139955/13		04/29/2015 10:16	1		RTX-CLP1 0.53(mm)
ICV 180-139955/13		04/29/2015 10:16	1		RTX-CLP2 0.53(mm)
ICV 180-139955/14		04/29/2015 10:35	1		RTX-CLP1 0.53(mm)
ICV 180-139955/14		04/29/2015 10:35	1		RTX-CLP2 0.53(mm)
ICV 180-139955/15		04/29/2015 10:54	1		RTX-CLP1 0.53(mm)
ICV 180-139955/15		04/29/2015 10:54	1		RTX-CLP2 0.53(mm)
ICV 180-139955/16		04/29/2015 11:12	1		RTX-CLP1 0.53(mm)
ICV 180-139955/16		04/29/2015 11:12	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 11:31	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 11:31	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 11:50	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 11:50	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 12:09	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 12:09	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 12:28	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 12:28	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 12:46	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 12:46	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 13:05	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 13:05	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 13:24	1		RTX-CLP1 0.53(mm)

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GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHGC10 Start Date: 04/29/2015 06:31

Analysis Batch Number: 139955 End Date: 04/29/2015 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/29/2015 13:24	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 13:43	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 13:43	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 14:02	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 14:02	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 14:20	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 14:20	1		RTX-CLP2 0.53(mm)
CCV 180-139955/27		04/29/2015 14:39	1		RTX-CLP1 0.53(mm)
CCV 180-139955/27		04/29/2015 14:39	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 17:29	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 17:29	1		RTX-CLP2 0.53(mm)
ZZZZZ		04/29/2015 17:48	1		RTX-CLP1 0.53(mm)
ZZZZZ		04/29/2015 17:48	1		RTX-CLP2 0.53(mm)
CCV 180-139955/39		04/29/2015 18:25	1		RTX-CLP1 0.53(mm)
CCV 180-139955/39		04/29/2015 18:25	1		RTX-CLP2 0.53(mm)

8082A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHGC10 Start Date: 05/06/2015 06:29

Analysis Batch Number: 140663 End Date: 05/06/2015 11:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 180-140663/1		05/06/2015 06:29	1	S0506001.D	RTX-CLP1 0.53(mm)
CCVRT 180-140663/1		05/06/2015 06:29	1	S0506001.D	RTX-CLP2 0.53(mm)
MB 180-140615/1-A		05/06/2015 08:22	1	S0506007.D	RTX-CLP1 0.53(mm)
MB 180-140615/1-A		05/06/2015 08:22	1	S0506007.D	RTX-CLP2 0.53(mm)
ZZZZZ		05/06/2015 08:41	1		RTX-CLP1 0.53(mm)
ZZZZZ		05/06/2015 08:41	1		RTX-CLP2 0.53(mm)
180-43702-1	RB-01	05/06/2015 08:59	1	S0506009.D	RTX-CLP1 0.53(mm)
180-43702-1	RB-01	05/06/2015 08:59	1	S0506009.D	RTX-CLP2 0.53(mm)
180-43702-2	FB-01	05/06/2015 09:18	1	S0506010.D	RTX-CLP1 0.53(mm)
180-43702-2	FB-01	05/06/2015 09:18	1	S0506010.D	RTX-CLP2 0.53(mm)
ZZZZZ		05/06/2015 09:37	1		RTX-CLP1 0.53(mm)
ZZZZZ		05/06/2015 09:37	1		RTX-CLP2 0.53(mm)
180-43702-3	RB-02	05/06/2015 09:56	1	S0506012.D	RTX-CLP1 0.53(mm)
180-43702-3	RB-02	05/06/2015 09:56	1	S0506012.D	RTX-CLP2 0.53(mm)
ZZZZZ		05/06/2015 10:14	1		RTX-CLP1 0.53(mm)
ZZZZZ		05/06/2015 10:14	1		RTX-CLP2 0.53(mm)
LCS 180-140615/4-A		05/06/2015 10:33	1	S0506014.D	RTX-CLP1 0.53(mm)
LCS 180-140615/4-A		05/06/2015 10:33	1	S0506014.D	RTX-CLP2 0.53(mm)
LCSD 180-140615/5-A		05/06/2015 10:52	1	S0506015.D	RTX-CLP1 0.53(mm)
LCSD 180-140615/5-A		05/06/2015 10:52	1	S0506015.D	RTX-CLP2 0.53(mm)
CCV 180-140663/16		05/06/2015 11:11	1	S0506016.D	RTX-CLP1 0.53(mm)
CCV 180-140663/16		05/06/2015 11:11	1	S0506016.D	RTX-CLP2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHGC10 Start Date: 05/06/2015 12:11

Analysis Batch Number: 140736 End Date: 05/07/2015 08:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 180-140736/1		05/06/2015 12:11	1	S0506101.D	RTX-CLP1 0.53(mm)
IC 180-140736/1		05/06/2015 12:11	1	S0506101.D	RTX-CLP2 0.53(mm)
IC 180-140736/2		05/06/2015 12:30	1	S0506102.D	RTX-CLP1 0.53(mm)
IC 180-140736/2		05/06/2015 12:30	1	S0506102.D	RTX-CLP2 0.53(mm)
IC 180-140736/3		05/06/2015 12:48	1	S0506103.D	RTX-CLP1 0.53(mm)
IC 180-140736/3		05/06/2015 12:48	1	S0506103.D	RTX-CLP2 0.53(mm)
IC 180-140736/4		05/06/2015 13:07	1	S0506104.D	RTX-CLP1 0.53(mm)
IC 180-140736/4		05/06/2015 13:07	1	S0506104.D	RTX-CLP2 0.53(mm)
IC 180-140736/5		05/06/2015 13:26	1	S0506105.D	RTX-CLP1 0.53(mm)
IC 180-140736/5		05/06/2015 13:26	1	S0506105.D	RTX-CLP2 0.53(mm)
IC 180-140736/6		05/06/2015 13:45	1	S0506106.D	RTX-CLP1 0.53(mm)
IC 180-140736/6		05/06/2015 13:45	1	S0506106.D	RTX-CLP2 0.53(mm)
IC 180-140736/7		05/06/2015 14:03	1	S0506107.D	RTX-CLP1 0.53(mm)
IC 180-140736/7		05/06/2015 14:03	1	S0506107.D	RTX-CLP2 0.53(mm)
IC 180-140736/8		05/06/2015 14:22	1	S0506108.D	RTX-CLP1 0.53(mm)
IC 180-140736/8		05/06/2015 14:22	1	S0506108.D	RTX-CLP2 0.53(mm)
IC 180-140736/9		05/06/2015 14:41	1	S0506109.D	RTX-CLP1 0.53(mm)
IC 180-140736/9		05/06/2015 14:41	1	S0506109.D	RTX-CLP2 0.53(mm)
IC 180-140736/10		05/06/2015 15:00	1	S0506110.D	RTX-CLP1 0.53(mm)
IC 180-140736/10		05/06/2015 15:00	1	S0506110.D	RTX-CLP2 0.53(mm)
IC 180-140736/11		05/06/2015 15:19	1	S0506111.D	RTX-CLP1 0.53(mm)
IC 180-140736/11		05/06/2015 15:19	1	S0506111.D	RTX-CLP2 0.53(mm)
ICRT 180-140736/12		05/06/2015 15:37	1	S0506112.D	RTX-CLP1 0.53(mm)
ICRT 180-140736/12		05/06/2015 15:37	1	S0506112.D	RTX-CLP2 0.53(mm)
IC 180-140736/13		05/06/2015 15:56	1	S0506113.D	RTX-CLP1 0.53(mm)
IC 180-140736/13		05/06/2015 15:56	1	S0506113.D	RTX-CLP2 0.53(mm)
IC 180-140736/14		05/06/2015 16:15	1	S0506114.D	RTX-CLP1 0.53(mm)
IC 180-140736/14		05/06/2015 16:15	1	S0506114.D	RTX-CLP2 0.53(mm)
IC 180-140736/15		05/06/2015 16:34	1	S0506115.D	RTX-CLP1 0.53(mm)
IC 180-140736/15		05/06/2015 16:34	1	S0506115.D	RTX-CLP2 0.53(mm)
ICV 180-140736/16		05/06/2015 16:53	1	S0506116.D	RTX-CLP1 0.53(mm)
ICV 180-140736/16		05/06/2015 16:53	1	S0506116.D	RTX-CLP2 0.53(mm)
ICV 180-140736/17		05/06/2015 17:12	1	S0506117.D	RTX-CLP1 0.53(mm)
ICV 180-140736/17		05/06/2015 17:12	1	S0506117.D	RTX-CLP2 0.53(mm)
ICV 180-140736/18		05/06/2015 17:30	1	S0506118.D	RTX-CLP1 0.53(mm)
ICV 180-140736/18		05/06/2015 17:30	1	S0506118.D	RTX-CLP2 0.53(mm)
ICV 180-140736/19		05/06/2015 17:49	1	S0506119.D	RTX-CLP1 0.53(mm)
ICV 180-140736/19		05/06/2015 17:49	1	S0506119.D	RTX-CLP2 0.53(mm)
ICV 180-140736/20		05/06/2015 18:08	1	S0506120.D	RTX-CLP1 0.53(mm)
ICV 180-140736/20		05/06/2015 18:08	1	S0506120.D	RTX-CLP2 0.53(mm)
CCV 180-140736/21		05/07/2015 05:22	1	S0506121.D	RTX-CLP1 0.53(mm)
CCV 180-140736/21		05/07/2015 05:22	1	S0506121.D	RTX-CLP2 0.53(mm)
MB 180-140781/1-A		05/07/2015 05:41	1	S0506122.D	RTX-CLP1 0.53(mm)
MB 180-140781/1-A		05/07/2015 05:41	1	S0506122.D	RTX-CLP2 0.53(mm)
180-43702-4	FB-02	05/07/2015 06:00	1	S0506123.D	RTX-CLP1 0.53(mm)

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GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: CHGC10 Start Date: 05/06/2015 12:11

Analysis Batch Number: 140736 End Date: 05/07/2015 08:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
180-43702-4	FB-02	05/07/2015 06:00	1	S0506123.D	RTX-CLP2 0.53(mm)
LCS 180-140781/2-A		05/07/2015 06:19	1	S0506124.D	RTX-CLP1 0.53(mm)
LCS 180-140781/2-A		05/07/2015 06:19	1	S0506124.D	RTX-CLP2 0.53(mm)
LCSD 180-140781/3-A		05/07/2015 06:37	1	S0506125.D	RTX-CLP1 0.53(mm)
LCSD 180-140781/3-A		05/07/2015 06:37	1	S0506125.D	RTX-CLP2 0.53(mm)
CCV 180-140736/30		05/07/2015 08:11	1	S0506130.D	RTX-CLP1 0.53(mm)
CCV 180-140736/30		05/07/2015 08:11	1	S0506130.D	RTX-CLP2 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 140615 Batch Start Date: 05/05/15 11:45 Batch Analyst: Yushinski, Charles

Batch Method: 3510C Batch End Date: 05/05/15 18:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	GCMATRIXWORKS 00012	OP/PESTPCBRTS 00002	
MB 180-140615/1		3510C, 8082A		6	1000 mL	1.0 mL		0.1 mL	
LCS 180-140615/4		3510C, 8082A		6	1000 mL	1.0 mL	25 uL	0.1 mL	
LCSD 180-140615/5		3510C, 8082A		6	1000 mL	1.0 mL	25 uL	0.1 mL	
180-43702-C-1	RB-01	3510C, 8082A	T	5	1060 mL	1.0 mL		0.1 mL	
180-43702-C-2	FB-01	3510C, 8082A	T	5	1050 mL	1.0 mL		0.1 mL	
180-43702-C-3	RB-02	3510C, 8082A	T	5	1060 mL	1.0 mL		0.1 mL	

Batch Notes	
Person's name who did the concentration	CBY
Exchange Solvent Lot #	1531111
Exchange Solvent Name	Hexane
N-evap #	1
N-evap temperature	21 Celsius
Na2SO4 Lot Number	1558431
Oven, Bath or Block Temperature 1	79 Celsius
pH Paper Lot Number	Ph paper HC432654
Prep Solvent Lot #	1553462
Prep Solvent Name	Methylene chloride
Prep Solvent Volume Used	1802 mL
Person's name who did the prep	CBY
Sufficient volume for MS/MSD?	no
Uncorrected N-evap Temperature	21 Celsius
Uncorrected Temperature	79 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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 140781 Batch Start Date: 05/06/15 12:40 Batch Analyst: Yushinski, Charles

Batch Method: 3510C Batch End Date: 05/06/15 21:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	GCMATRIXWORKS 00012	OP/PESTPCBRTS 00002	
MB 180-140781/1		3510C, 8082A		6	1000 mL	1.0 mL		0.1 mL	
LCS 180-140781/2		3510C, 8082A		6	1000 mL	1.0 mL	25 uL	0.1 mL	
LCSD 180-140781/3		3510C, 8082A		6	1000 mL	1.0 mL	25 uL	0.1 mL	
180-43702-D-4	FB-02	3510C, 8082A	T	5	1050 mL	1.0 mL		0.1 mL	

Batch Notes	
Person's name who did the concentration	CBY
Exchange Solvent Lot #	1531111
Exchange Solvent Name	Hexane
N-evap #	1
N-evap temperature	21 Celsius
Na2SO4 Lot Number	1558431
Oven, Bath or Block Temperature 1	79 Celsius
pH Paper Lot Number	Ph paper HC432654
Prep Solvent Lot #	1553462
Prep Solvent Name	Methylene chloride
Prep Solvent Volume Used	180 mL
Person's name who did the prep	CBY
Sufficient volume for MS/MSD?	no
Uncorrected N-evap Temperature	21 Celsius
Uncorrected Temperature	79 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.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-43702-1

SDG No.:

Project: Sparrows Point Trust Offshore Investigat

Client Sample ID	Lab Sample ID
RB-01	180-43702-1
FB-01	180-43702-2
RB-02	180-43702-3
FB-02	180-43702-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: RB-01 Lab Sample ID: 180-43702-1

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2015 17:30

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.20	0.078	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: RB-01 Lab Sample ID: 180-43702-1

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2015 17:30

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	1.0	0.29	ug/L			1	6020A
7440-43-9	Cadmium	ND	1.0	0.11	ug/L			1	6020A
7440-47-3	Chromium	0.57	2.0	0.54	ug/L	J		1	6020A
7439-92-1	Lead	0.18	1.0	0.019	ug/L	J		1	6020A
7782-49-2	Selenium	ND	5.0	0.42	ug/L			1	6020A
7440-22-4	Silver	ND	1.0	0.036	ug/L			1	6020A
7440-41-7	Beryllium	ND	1.0	0.037	ug/L			1	6020A
7440-28-0	Thallium	ND	1.0	0.015	ug/L			1	6020A
7440-36-0	Antimony	ND	2.0	0.019	ug/L			1	6020A
7440-02-0	Nickel	ND	1.0	0.17	ug/L			1	6020A
7440-66-6	Zinc	5.0	5.0	0.96	ug/L			1	6020A
7440-50-8	Copper	0.72	2.0	0.24	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB-01 Lab Sample ID: 180-43702-2

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2015 17:45

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.20	0.078	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: FB-01 Lab Sample ID: 180-43702-2

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2015 17:45

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	1.0	0.29	ug/L			1	6020A
7440-43-9	Cadmium	ND	1.0	0.11	ug/L			1	6020A
7440-47-3	Chromium	0.60	2.0	0.54	ug/L	J		1	6020A
7439-92-1	Lead	0.15	1.0	0.019	ug/L	J		1	6020A
7782-49-2	Selenium	ND	5.0	0.42	ug/L			1	6020A
7440-22-4	Silver	ND	1.0	0.036	ug/L			1	6020A
7440-41-7	Beryllium	ND	1.0	0.037	ug/L			1	6020A
7440-28-0	Thallium	ND	1.0	0.015	ug/L			1	6020A
7440-36-0	Antimony	ND	2.0	0.019	ug/L			1	6020A
7440-02-0	Nickel	ND	1.0	0.17	ug/L			1	6020A
7440-66-6	Zinc	6.0	5.0	0.96	ug/L			1	6020A
7440-50-8	Copper	0.57	2.0	0.24	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: RB-02 Lab Sample ID: 180-43702-3

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 05/01/2015 15:00

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.20	0.078	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: RB-02 | Lab Sample ID: 180-43702-3

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG ID.:

Matrix: Water | Date Sampled: 05/01/2015 15:00

Reporting Basis: WET | Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.31	1.0	0.29	ug/L	J		1	6020A
7440-43-9	Cadmium	ND	1.0	0.11	ug/L			1	6020A
7440-47-3	Chromium	ND	2.0	0.54	ug/L			1	6020A
7439-92-1	Lead	0.19	1.0	0.019	ug/L	J		1	6020A
7782-49-2	Selenium	ND	5.0	0.42	ug/L			1	6020A
7440-22-4	Silver	ND	1.0	0.036	ug/L			1	6020A
7440-41-7	Beryllium	ND	1.0	0.037	ug/L			1	6020A
7440-28-0	Thallium	ND	1.0	0.015	ug/L			1	6020A
7440-36-0	Antimony	ND	2.0	0.019	ug/L			1	6020A
7440-02-0	Nickel	ND	1.0	0.17	ug/L			1	6020A
7440-66-6	Zinc	4.1	5.0	0.96	ug/L	J		1	6020A
7440-50-8	Copper	0.58	2.0	0.24	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB-02 Lab Sample ID: 180-43702-4

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 05/01/2015 15:15

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.20	0.078	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: FB-02 | Lab Sample ID: 180-43702-4

Lab Name: TestAmerica Pittsburgh | Job No.: 180-43702-1

SDG ID.:

Matrix: Water | Date Sampled: 05/01/2015 15:15

Reporting Basis: WET | Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	1.0	0.29	ug/L			1	6020A
7440-43-9	Cadmium	ND	1.0	0.11	ug/L			1	6020A
7440-47-3	Chromium	1.3	2.0	0.54	ug/L	J		1	6020A
7439-92-1	Lead	0.020	1.0	0.019	ug/L	J		1	6020A
7782-49-2	Selenium	ND	5.0	0.42	ug/L			1	6020A
7440-22-4	Silver	ND	1.0	0.036	ug/L			1	6020A
7440-41-7	Beryllium	ND	1.0	0.037	ug/L			1	6020A
7440-28-0	Thallium	ND	1.0	0.015	ug/L			1	6020A
7440-36-0	Antimony	ND	2.0	0.019	ug/L			1	6020A
7440-02-0	Nickel	ND	1.0	0.17	ug/L			1	6020A
7440-66-6	Zinc	9.0	5.0	0.96	ug/L			1	6020A
7440-50-8	Copper	0.40	2.0	0.24	ug/L	J		1	6020A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

ICV Source: MICVX_00031 Concentration Units: ug/L

CCV Source: MCCV1X_00075

Analyte	ICV 180-141080/5 05/07/2015 16:53				CCV 180-141080/10 05/07/2015 17:40				CCV 180-141080/22 05/07/2015 18:36			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	79.7		80.0	100	95.4		100	95	94.5		100	95
Arsenic	80.4		80.0	101	98.8		100	99	100		100	100
Beryllium	80.8		80.0	101	98.3		100	98	100		100	100
Cadmium	80.8		80.0	101	96.7		100	97	96.6		100	97
Chromium	82.6		80.0	103	96.9		100	97	97.6		100	98
Copper	82.6		80.0	103	97.0		100	97	101		100	101
Lead	78.6		80.0	98	104		100	104	98.4		100	98
Nickel	83.8		80.0	105	97.0		100	97	101		100	101
Selenium	83.4		80.0	104	101		100	101	102		100	102
Silver	80.0		80.0	100	95.2		100	95	96.3		100	96
Thallium	81.7		80.0	102	103		100	103	98.8		100	99
Zinc	81.1		80.0	101	97.8		100	98	97.6		100	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 Pittsburgh Job No.: 180-43702-1

SDG No.:

ICV Source: MICVX_00031 Concentration Units: ug/L

CCV Source: MCCV1X_00075

Analyte	CCV 180-141080/34 05/07/2015 19:25											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	95.3		100	95								
Arsenic	98.9		100	99								
Beryllium	98.8		100	99								
Cadmium	95.0		100	95								
Chromium	95.8		100	96								
Copper	97.5		100	98								
Lead	100		100	100								
Nickel	98.0		100	98								
Selenium	101		100	101								
Silver	94.7		100	95								
Thallium	100		100	100								
Zinc	97.0		100	97								

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

ICV Source: MICVX_00031 Concentration Units: ug/L

CCV Source: MCCV1X_00075

Analyte	ICV 180-141088/5 05/08/2015 12:19				CCV 180-141088/10 05/08/2015 12:49				CCV 180-141088/95 05/08/2015 21:16			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	80.4		80.0	101	105		100	105	107		100	107
Lead	75.4		80.0	94	102		100	102	101		100	101
Thallium	77.2		80.0	97	101		100	101	100		100	100
Antimony	79.3		80.0	99	104		100	104	105		100	105
Arsenic	80.4		80.0	100	105		100	105	104		100	104
Cadmium	81.3		80.0	102	105		100	105	104		100	104
Chromium	75.8		80.0	95	99.3		100	99	94.0		100	94
Copper	78.3		80.0	98	102		100	102	98.4		100	98
Nickel	77.0		80.0	96	101		100	101	98.6		100	99
Selenium	82.5		80.0	103	107		100	107	103		100	103
Silver	79.2		80.0	99	103		100	103	103		100	103
Zinc	82.4		80.0	103	109		100	109	99.4		100	99

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

ICV Source: MICVX_00031 Concentration Units: ug/L

CCV Source: MCCV1X_00075

Analyte	CCV 180-141088/107 05/08/2015 22:23				CCV 180-141088/119 05/08/2015 23:28							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	113		100	113	111		100	111				
Lead	103		100	103	102		100	102				
Thallium	102		100	102	101		100	101				
Antimony	104		100	104	102		100	102				
Arsenic	103		100	103	104		100	104				
Cadmium	103		100	103	103		100	103				
Chromium	94.4		100	94	94.0		100	94				
Copper	99.4		100	99	100		100	100				
Nickel	96.9		100	97	98.5		100	99				
Selenium	103		100	103	102		100	102				
Silver	103		100	103	102		100	102				
Zinc	103		100	103	103		100	103				

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

ICV Source: MHgWorkingicv_01012 Concentration Units: ug/L

CCV Source: MHgworkingCal_01042

Analyte	ICV 180-141137/7-A 05/11/2015 16:57				CCV 180-141137/10-A 05/11/2015 17:03				CCV 180-141137/10-A 05/11/2015 17:49			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.55		2.50	102	4.83		5.00	97	4.69		5.00	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 Pittsburgh Job No.: 180-43702-1

SDG No.:

ICV Source: MHgWorkingicv_01012 Concentration Units: ug/L

CCV Source: MHgworkingCal_01042

Analyte	CCV 180-141137/10-A 05/11/2015 18:12				CCV 180-141137/10-A 05/11/2015 18:35							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.62		5.00	92	4.61		5.00	92				

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

ICV Source: MHgWorkingicv_01012 Concentration Units: ug/L

CCV Source: MHgworkingCal_01042

Analyte	ICV 180-141137/7-A 05/12/2015 07:30				CCV 180-141137/10-A 05/12/2015 07:36				CCV 180-141137/10-A 05/12/2015 07:59			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.52		2.50	101	4.82		5.00	96	4.66		5.00	93

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

Method: 6020A Instrument ID: M

Lab Sample ID: CRI 180-141080/7 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00066

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	1.00	1.04		104	70-130
Cadmium	1.00	0.960	J	96	70-130
Chromium	2.00	1.99	J	100	70-130
Lead	1.00	1.10		110	70-130
Selenium	5.00	5.68		114	70-130
Silver	1.00	1.01		101	70-130
Beryllium	1.00	0.973	J	97	70-130
Thallium	1.00	1.10		110	70-130
Antimony	2.00	1.88	J	94	70-130
Nickel	1.00	1.05		105	70-130
Zinc	5.00	5.41		108	70-130
Copper	2.00	2.09		104	70-130

Lab Sample ID: CRI 180-141080/51 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00066

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	1.00	1.17		117	70-130
Cadmium	1.00	1.12		112	70-130
Chromium	2.00	2.04		102	70-130
Lead	1.00	1.17		117	70-130
Selenium	5.00	5.30		106	70-130
Silver	1.00	0.971	J	97	70-130
Beryllium	1.00	1.08		108	70-130
Thallium	1.00	1.11		111	70-130
Antimony	2.00	1.76	J	88	70-130
Nickel	1.00	1.05		105	70-130
Zinc	5.00	5.11		102	70-130
Copper	2.00	2.15		107	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Method: 6020A Instrument ID: X

Lab Sample ID: CRI 180-141088/7 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00066

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	1.00	1.04		104	70-130
Cadmium	1.00	1.07		107	70-130
Chromium	2.00	2.02		101	70-130
Lead	1.00	1.03		103	70-130
Selenium	5.00	5.55		111	70-130
Silver	1.00	0.959	J	96	70-130
Beryllium	1.00	1.11		111	70-130
Thallium	1.00	0.954	J	95	70-130
Antimony	2.00	2.02		101	70-130
Nickel	1.00	1.04		104	70-130
Zinc	5.00	6.39		128	70-130
Copper	2.00	2.11		106	70-130

Lab Sample ID: CRI 180-141088/121 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00066

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	1.00	0.793	J	79	70-130
Cadmium	1.00	1.19		119	70-130
Chromium	2.00	1.81	J	90	70-130
Lead	1.00	0.947	J	95	70-130
Selenium	5.00	4.57	J	91	70-130
Silver	1.00	0.825	J	83	70-130
Beryllium	1.00	1.03		103	70-130
Thallium	1.00	0.876	J	88	70-130
Antimony	2.00	2.06		103	70-130
Nickel	1.00	0.991	J	99	70-130
Zinc	5.00	6.48		130	70-130
Copper	2.00	2.03		101	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Method: 7470A Instrument ID: K

Lab Sample ID: CRA 180-141137/9-A Concentration Units: ug/L

CRQL Check Standard Source: MHgworkingCal_01042

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.230		115	50-150

Lab Sample ID: CRA 180-141137/9-A Concentration Units: ug/L

CRQL Check Standard Source: MHgworkingCal_01042

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.245		123	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-141080/6 05/07/2015 17:23		CCB1 180-141080/11 05/07/2015 17:47		CCB2 180-141080/23 05/07/2015 18:43		CCB3 180-141080/35 05/07/2015 19:31	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	ND		ND		ND		ND	
Arsenic	1.0	ND		ND		ND		ND	
Beryllium	1.0	0.0440	J	ND		ND		ND	
Cadmium	1.0	ND		ND		ND		ND	
Chromium	2.0	ND		ND		ND		ND	
Copper	2.0	ND		ND		ND		ND	
Lead	1.0	ND		ND		ND		ND	
Nickel	1.0	ND		ND		ND		ND	
Selenium	5.0	0.500	J	0.434	J	0.706	J	ND	
Silver	1.0	ND		ND		ND		ND	
Thallium	1.0	0.0170	J	ND		0.0180	J	ND	
Zinc	5.0	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-141088/6 05/08/2015 12:24		CCB1 180-141088/11 05/08/2015 12:58		CCB9 180-141088/96 05/08/2015 21:25		CCB10 180-141088/108 05/08/2015 22:32	
		Found	C	Found	C	Found	C	Found	C
Beryllium	1.0	ND		ND		ND		ND	
Lead	1.0	ND		ND		0.0240	J	0.0230	J
Thallium	1.0	0.122	J	0.0390	J	0.0450	J	0.0500	J
Antimony	2.0	ND		ND		ND		ND	
Arsenic	1.0	ND		ND		ND		ND	
Cadmium	1.0	ND		ND		ND		ND	
Chromium	2.0	ND		ND		ND		ND	
Copper	2.0	ND		ND		ND		ND	
Nickel	1.0	ND		ND		ND		ND	
Selenium	5.0	ND		ND		ND		ND	
Silver	1.0	ND		ND		ND		ND	
Zinc	5.0	ND		ND		1.14	J	1.15	J

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB11 180-141088/120 05/08/2015 23:37							
		Found	C	Found	C	Found	C	Found	C
Beryllium	1.0	ND							
Lead	1.0	ND							
Thallium	1.0	0.0490	J						
Antimony	2.0	ND							
Arsenic	1.0	ND							
Cadmium	1.0	ND							
Chromium	2.0	ND							
Copper	2.0	ND							
Nickel	1.0	ND							
Selenium	5.0	ND							
Silver	1.0	ND							
Zinc	5.0	1.05	J						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-141137/8-A 05/11/2015 16:59		CCB 180-141137/11-A 05/11/2015 17:05		CCB 180-141137/11-A 05/11/2015 17:51		CCB 180-141137/11-A 05/11/2015 18:14	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 180-141137/11-A 05/11/2015 18:37							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-141137/8-A 05/12/2015 07:32		CCB 180-141137/11-A 05/12/2015 07:38		CCB 180-141137/11-A 05/12/2015 08:01			
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 180-140485/1-A

Instrument Code: M Batch No.: 141080

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND			6020A
7440-43-9	Cadmium	ND			6020A
7440-47-3	Chromium	ND			6020A
7439-92-1	Lead	ND			6020A
7782-49-2	Selenium	ND			6020A
7440-22-4	Silver	ND			6020A
7440-41-7	Beryllium	ND			6020A
7440-28-0	Thallium	ND			6020A
7440-36-0	Antimony	ND			6020A
7440-02-0	Nickel	ND			6020A
7440-66-6	Zinc	ND			6020A
7440-50-8	Copper	ND			6020A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 180-141138/1-A

Instrument Code: K Batch No.: 141247

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICSA 180-141080/8 Instrument ID: M

Lab File ID: M50507A.xml ICS Source: MICSAX_00065

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.0150**	**0.02**
Arsenic		**-0.0440**	**-0.04**
Beryllium		**0.0320**	**0.03**
Cadmium		**0.367**	**0.4**
Chromium		**0.549**	**0.5**
Copper		**1.24**	**1**
Lead		**0.231**	**0.2**
Nickel		**-0.217**	**-0.2**
Selenium		**-0.349**	**-0.3**
Silver		**0.0490**	**0.05**
Thallium		**0.0190**	**0.02**
Zinc		**2.19**	**2**
Aluminum	*100000*	*110200*	*110*
Barium		*0.113*	*0.1*
Calcium	*100000*	*108000*	*108*
Cobalt		*0.0600*	*0.06*
Iron	*100000*	*104900*	*105*
Magnesium	*100000*	*108300*	*108*
Manganese		*0.518*	*0.1*
Molybdenum	*2000*	*2274*	*114*
Potassium	*100000*	*106600*	*107*
Silicon		*-109*	*-2*
Sodium	*100000*	*108400*	*108*
Strontium		*0.697*	*0.7*
Tin		*0.0420*	*0.04*
Titanium	*2000*	*2077*	*104*
Vanadium		*-0.335*	*-0.3*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICSAB 180-141080/9 Instrument ID: M

Lab File ID: M50507A.xml ICS Source: MICSABX_00070

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	**20.0**	**21.1**	**105**
Arsenic	**20.0**	**22.0**	**110**
Beryllium	**20.0**	**21.4**	**107**
Cadmium	**20.0**	**21.6**	**108**
Chromium	**20.0**	**21.8**	**109**
Copper	**20.0**	**22.0**	**110**
Lead	**20.0**	**22.7**	**114**
Nickel	**20.0**	**20.9**	**105**
Selenium	**50.0**	**54.5**	**109**
Silver	**20.0**	**20.6**	**103**
Thallium	**20.0**	**22.1**	**110**
Zinc	**25.0**	**23.1**	**92**
Aluminum	*100000*	*112100*	*112*
Barium	*20.0*	*20.9*	*105*
Calcium	*100000*	*111033*	*111*
Cobalt	*20.0*	*21.1*	*105*
Iron	*100000*	*107633*	*108*
Magnesium	*100000*	*110167*	*110*
Manganese	*22.5*	*21.1*	*94*
Molybdenum	*2000*	*2324*	*116*
Potassium	*100000*	*109500*	*110*
Silicon	*500*	*435*	*87*
Sodium	*100000*	*110967*	*111*
Strontium	*25.0*	*21.2*	*85*
Tin	*100*	*106*	*106*
Titanium	*2000*	*2133*	*107*
Vanadium	*20.0*	*21.1*	*106*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICSA 180-141088/8 Instrument ID: X

Lab File ID: X50508A.xml ICS Source: MICSAX_00065

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Beryllium		**0.0930**	
Lead		**0.360**	
Thallium		**0.0800**	
Aluminum	*100000*	*107500*	*108*
Antimony		*0.0970*	
Arsenic		*0.442*	
Barium		*0.414*	
Boron		*1.03*	
Cadmium		*2.08*	
Calcium	*100000*	*103400*	*103*
Chromium		*1.62*	
Cobalt		*0.244*	
Copper		*2.29*	
Iron	*100000*	*104900*	*105*
Magnesium	*100000*	*105200*	*105*
Manganese		*2.23*	
Molybdenum	*2000*	*2373*	*119*
Nickel		*0.432*	
Potassium	*100000*	*104000*	*104*
Selenium		*0.115*	
Silicon		*14.3*	
Silver		*-0.222*	
Sodium	*100000*	*107200*	*107*
Strontium		*1.14*	
Tin		*-0.225*	
Titanium	*2000*	*2216*	*111*
Vanadium		*0.316*	
Zinc		*5.23*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Lab Sample ID: ICSAB 180-141088/9 Instrument ID: X

Lab File ID: X50508A.xml ICS Source: MICSABX_00070

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Beryllium	**20.0**	**19.7**	**99**
Lead	**20.0**	**21.2**	**106**
Thallium	**20.0**	**20.9**	**104**
Aluminum	*100000*	*108567*	*109*
Antimony	*20.0*	*20.5*	*103*
Arsenic	*20.0*	*20.5*	*103*
Barium	*20.0*	*20.5*	*103*
Boron	*50.0*	*45.4*	*91*
Cadmium	*20.0*	*22.1*	*111*
Calcium	*100000*	*101303*	*101*
Chromium	*20.0*	*22.2*	*111*
Cobalt	*20.0*	*20.6*	*103*
Copper	*20.0*	*22.0*	*110*
Iron	*100000*	*104700*	*105*
Magnesium	*100000*	*104833*	*105*
Manganese	*22.5*	*23.1*	*103*
Molybdenum	*2000*	*2344*	*117*
Nickel	*20.0*	*20.3*	*102*
Potassium	*100000*	*102847*	*103*
Selenium	*50.0*	*50.5*	*101*
Silicon	*500*	*590*	*118*
Silver	*20.0*	*20.2*	*101*
Sodium	*100000*	*107600*	*108*
Strontium	*25.0*	*21.2*	*85*
Tin	*100*	*105*	*105*
Titanium	*2000*	*2177*	*109*
Vanadium	*20.0*	*20.3*	*102*
Zinc	*25.0*	*23.5*	*94*

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

FORM IVA-IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 180-140485/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

Sample Matrix: Water LCS Source: MTAPITTICPMS_00020

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	40.0	37.9		95	80	120		6020A
Cadmium	50.0	47.9		96	80	120		6020A
Chromium	200	193		96	80	120		6020A
Selenium	10.0	9.58		96	80	120		6020A
Silver	50.0	47.4		95	80	120		6020A
Antimony	500	492		98	80	120		6020A
Nickel	500	490		98	80	120		6020A
Zinc	500	481		96	80	120		6020A
Copper	250	244		98	80	120		6020A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 180-140485/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

Sample Matrix: Water LCS Source: MTAPITTICPMS_00020

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	20.0	21.4		107	80	120		6020A
Beryllium	50.0	45.3		91	80	120		6020A
Thallium	50.0	52.5		105	80	120		6020A

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 180-141138/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

Sample Matrix: Water LCS Source: MHgworkingCal_01042

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	2.50	2.63		105	80	120		7470A

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 Pittsburgh Job Number: 180-43702-1

SDG Number:

Matrix: Water Instrument ID: M

Method: 6020A MDL Date: 01/23/2010 18:33

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Antimony	121	2	0.0187
Arsenic	75	1	0.2908
Beryllium	9	1	0.0367
Cadmium	111	1	0.1144
Chromium	52	2	0.5433
Copper	65	2	0.2443
Lead	208	1	0.0192
Nickel	60	1	0.1749
Selenium	82	5	0.4216
Silver	107	1	0.0362
Thallium	205	1	0.0152
Zinc	66	5	0.9609

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Pittsburgh Job Number: 180-43702-1

SDG Number:

Matrix: Water Instrument ID: M

Method: 6020A XMDL Date: 01/23/2010 18:33

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony	121	2	0.0187
Arsenic	75	1	0.2908
Beryllium	9	1	0.0367
Cadmium	111	1	0.1144
Chromium	52	2	0.5433
Copper	65	2	0.2443
Lead	208	1	0.0192
Nickel	60	1	0.1749
Selenium	82	5	0.4216
Silver	107	1	0.0362
Thallium	205	1	0.0152
Zinc	66	5	0.9609

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Pittsburgh Job Number: 180-43702-1

SDG Number:

Matrix: Water Instrument ID: X

Method: 6020A MDL Date: 01/23/2010 18:33

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Beryllium	9	1	0.0367
Lead	208	1	0.0192
Thallium	205	1	0.0152

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Pittsburgh Job Number: 180-43702-1

SDG Number:

Matrix: Water Instrument ID: X

Method: 6020A XMDL Date: 01/23/2010 18:33

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Beryllium	9	1	0.0367
Lead	208	1	0.0192
Thallium	205	1	0.0152

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-43702-1

SDG Number:

Matrix: Water Instrument ID: K

Method: 7470A MDL Date: 03/13/2015 17:33

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury	253.7	0.2	0.0778

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-43702-1

SDG Number:

Matrix: Water Instrument ID: K

Method: 7470A XMDL Date: 01/23/2010 12:30

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.0384

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Pittsburgh Job No: 180-43702-1

SDG No.:

Instrument ID: M Date: 03/14/2011 22:35

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic		4500	6020A
Cadmium		13500	6020A
Chromium		13500	6020A
Lead		20000	6020A
Selenium		4500	6020A
Silver		2500	6020A
Beryllium		9000	6020A
Thallium		13500	6020A
Antimony		13500	6020A
Nickel		13500	6020A
Zinc		25000	6020A
Copper		20000	6020A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Pittsburgh Job No: 180-43702-1

SDG No.:

Instrument ID: X Date: 03/14/2011 22:35

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Lead		20000	6020A
Beryllium		9000	6020A
Thallium		13500	6020A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 180-140485/1-A	05/04/2015 11:22	140485		50	50
LCS 180-140485/2-A	05/04/2015 11:22	140485		50	50
180-43702-1	05/04/2015 11:22	140485		50	50
180-43702-2	05/04/2015 11:22	140485		50	50
180-43702-3	05/04/2015 11:22	140485		50	50
180-43702-4	05/04/2015 11:22	140485		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 180-141138/1-A	05/11/2015 08:34	141138		50	50
LCS 180-141138/2-A	05/11/2015 08:34	141138		50	50
180-43702-1	05/11/2015 08:34	141138		50	50
180-43702-2	05/11/2015 08:34	141138		50	50
180-43702-3	05/11/2015 08:34	141138		50	50
180-43702-4	05/11/2015 08:34	141138		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: M Analysis Method: 6020A

Start Date: 05/07/2015 15:52 End Date: 05/08/2015 00:28

Lab Sample Id	D/F	Type	Time	Analytes																									
				Ag	As	Be	Cd	Cr	Cu	Ni	Pb	Sb	Se	Tl	Zn															
ITUNE 180-141080/1			15:52																										
STD1 180-141080/2 IC	1		16:33	X	X	X	X	X	X	X	X	X	X	X	X														
STD2 180-141080/3 IC	1		16:46	X	X	X	X	X	X	X	X	X	X	X	X														
STD3 180-141080/4 IC	1		16:50	X	X	X	X	X	X	X	X	X	X	X	X														
ICV 180-141080/5	1		16:53	X	X	X	X	X	X	X	X	X	X	X	X														
ICB 180-141080/6	1		17:23	X	X	X	X	X	X	X	X	X	X	X	X														
CRI 180-141080/7	1		17:25	X	X	X	X	X	X	X	X	X	X	X	X														
ICSA 180-141080/8	1		17:29	X	X	X	X	X	X	X	X	X	X	X	X														
ICSAB 180-141080/9	1		17:33	X	X	X	X	X	X	X	X	X	X	X	X														
CCV 180-141080/10	1		17:40	X	X	X	X	X	X	X	X	X	X	X	X														
CCB1 180-141080/11	1		17:47	X	X	X	X	X	X	X	X	X	X	X	X														
MB 180-140485/1-A	1	R	17:51	X	X	X	X	X	X	X	X	X	X	X	X														
LCS 180-140485/2-A	1	R	17:55	X	X		X	X	X	X		X	X		X														
ZZZZZZ			18:02																										
ZZZZZZ			18:06																										
ZZZZZZ			18:09																										
ZZZZZZ			18:13																										
ZZZZZZ			18:17																										
ZZZZZZ			18:21																										
ZZZZZZ			18:25																										
ZZZZZZ			18:32																										
CCV 180-141080/22	1		18:36	X	X	X	X	X	X	X	X	X	X	X	X														
CCB2 180-141080/23	1		18:43	X	X	X	X	X	X	X	X	X	X	X	X														
ZZZZZZ			18:47																										
ZZZZZZ			18:50																										
ZZZZZZ			18:54																										
ZZZZZZ			18:58																										
180-43702-1	1	R	19:02	X	X	X	X	X	X	X	X	X	X	X	X														
180-43702-2	1	R	19:06	X	X		X	X	X	X		X	X		X														
180-43702-3	1	R	19:09	X	X	X	X	X	X	X	X	X	X	X	X														
180-43702-4	1	R	19:13	X	X	X	X	X	X	X	X	X	X	X	X														
ZZZZZZ			19:17																										
ZZZZZZ			19:21																										
CCV 180-141080/34	1		19:25	X	X	X	X	X	X	X	X	X	X	X	X														
CCB3 180-141080/35	1		19:31	X	X	X	X	X	X	X	X	X	X	X	X														
ZZZZZZ			19:35																										
ZZZZZZ			19:39																										
ZZZZZZ			19:43																										
ZZZZZZ			19:47																										
ZZZZZZ			19:50																										
ZZZZZZ			19:54																										
ZZZZZZ			19:58																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: M Analysis Method: 6020A

Start Date: 05/07/2015 15:52 End Date: 05/08/2015 00:28

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Be	Cd	Cr	Cu	Ni	Pb	Sb	Se	Tl	Zn														
ZZZZZZ			20:02																									
ZZZZZZ			20:06																									
ZZZZZZ			20:09																									
CCV 180-141080/46			20:13																									
CCB4 180-141080/47			20:20																									
ZZZZZZ			20:24																									
ZZZZZZ			20:31																									
ZZZZZZ			20:35																									
CRI 180-141080/51	1		20:42	X	X	X	X	X	X	X	X	X	X	X	X													
ZZZZZZ			20:46																									
ZZZZZZ			20:54																									
ZZZZZZ			20:57																									
ZZZZZZ			21:01																									
ZZZZZZ			21:05																									
CCV 180-141080/57			21:08																									
CCB5 180-141080/58			21:15																									
ZZZZZZ			21:19																									
ZZZZZZ			21:23																									
ZZZZZZ			21:27																									
ZZZZZZ			21:30																									
ZZZZZZ			21:34																									
ZZZZZZ			21:38																									
ZZZZZZ			21:45																									
ZZZZZZ			21:49																									
ZZZZZZ			21:56																									
CCV 180-141080/68			22:00																									
CCB6 180-141080/69			22:07																									
ZZZZZZ			22:11																									
ZZZZZZ			22:14																									
ZZZZZZ			22:21																									
ZZZZZZ			22:25																									
ZZZZZZ			22:29																									
ZZZZZZ			22:33																									
ZZZZZZ			22:37																									
ZZZZZZ			22:40																									
ZZZZZZ			22:44																									
ZZZZZZ			22:48																									
CCV 180-141080/80			22:52																									
CCB7 180-141080/81			22:59																									
ZZZZZZ			23:02																									
ZZZZZZ			23:06																									
ZZZZZZ			23:10																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: M Analysis Method: 6020A

Start Date: 05/07/2015 15:52 End Date: 05/08/2015 00:28

Lab Sample Id	D/F	Type	Time	Analytes																									
				Ag	As	Be	Cd	Cr	Cu	Ni	Pb	Sb	Se	Tl	Zn															
ZZZZZZ			23:14																										
ZZZZZZ			23:18																										
ZZZZZZ			23:22																										
ZZZZZZ			23:25																										
ZZZZZZ			23:32																										
ZZZZZZ			23:36																										
ZZZZZZ			23:40																										
CCV 180-141080/92			23:44																										
CCB8 180-141080/93			23:50																										
ZZZZZZ			23:54																										
ZZZZZZ			23:58																										
ZZZZZZ			00:02																										
ZZZZZZ			00:06																										
ZZZZZZ			00:10																										
ZZZZZZ			00:13																										
ZZZZZZ			00:17																										
CCV 180-141080/101			00:21																										
CCB9 180-141080/102			00:28																										

Prep Types:
R = Total Recoverable

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 05/08/2015 09:09 End Date: 05/09/2015 00:37

Lab Sample Id	D/F	Type	Time	Analytes																										
				Be	Pb	Tl																								
ITUNE 180-141088/1			09:09																											
STD1 180-141088/2 IC	1		12:04	X	X	X																								
STD2 180-141088/3 IC	1		12:09	X	X	X																								
STD3 180-141088/4 IC	1		12:14	X	X	X																								
ICV 180-141088/5	1		12:19	X	X	X																								
ICB 180-141088/6	1		12:24	X	X	X																								
CRI 180-141088/7	1		12:29	X	X	X																								
ICSA 180-141088/8	1		12:35	X	X	X																								
ICSAB 180-141088/9	1		12:40	X	X	X																								
CCV 180-141088/10	1		12:49	X	X	X																								
CCB1 180-141088/11	1		12:58	X	X	X																								
ZZZZZZ			13:03																											
ZZZZZZ			13:08																											
ZZZZZZ			13:13																											
ZZZZZZ			13:18																											
ZZZZZZ			13:23																											
ZZZZZZ			13:28																											
ZZZZZZ			13:33																											
ZZZZZZ			13:38																											
ZZZZZZ			13:43																											
ZZZZZZ			13:48																											
CCV 180-141088/22			13:53																											
CCB2 180-141088/23			14:02																											
ZZZZZZ			14:08																											
ZZZZZZ			14:13																											
ZZZZZZ			14:33																											
ZZZZZZ			14:38																											
ZZZZZZ			14:43																											
ZZZZZZ			14:48																											
ZZZZZZ			14:53																											
ZZZZZZ			14:59																											
ZZZZZZ			15:04																											
CCV 180-141088/33			15:09																											
CCB3 180-141088/34			15:18																											
ZZZZZZ			15:23																											
ZZZZZZ			15:28																											
ZZZZZZ			15:37																											
ZZZZZZ			15:42																											
ZZZZZZ			15:47																											
ZZZZZZ			15:52																											
ZZZZZZ			15:57																											
ZZZZZZ			16:02																											

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 05/08/2015 09:09 End Date: 05/09/2015 00:37

Lab Sample Id	D/F	Type	Time	Analytes																										
				Be	Pb	Tl																								
ZZZZZZ			16:08																											
ZZZZZZ			16:13																											
CCV 180-141088/45			16:18																											
CCB4 180-141088/46			16:27																											
ZZZZZZ			16:32																											
ZZZZZZ			16:37																											
ZZZZZZ			16:42																											
ZZZZZZ			16:47																											
ZZZZZZ			16:52																											
ZZZZZZ			16:58																											
ZZZZZZ			17:03																											
ZZZZZZ			17:08																											
ZZZZZZ			17:13																											
ZZZZZZ			17:18																											
CCV 180-141088/57			17:23																											
CCB5 180-141088/58			17:32																											
ZZZZZZ			17:37																											
ZZZZZZ			17:42																											
ZZZZZZ			17:47																											
ZZZZZZ			17:52																											
ZZZZZZ			17:57																											
ZZZZZZ			18:02																											
ZZZZZZ			18:08																											
ZZZZZZ			18:13																											
ZZZZZZ			18:18																											
CCV 180-141088/68			18:23																											
CCB6 180-141088/69			18:32																											
ZZZZZZ			18:37																											
ZZZZZZ			18:42																											
ZZZZZZ			18:51																											
ZZZZZZ			18:56																											
ZZZZZZ			19:01																											
ZZZZZZ			19:06																											
ZZZZZZ			19:11																											
ZZZZZZ			19:16																											
CCV 180-141088/78			19:27																											
CCB7 180-141088/79			19:36																											
ZZZZZZ			19:41																											
ZZZZZZ			19:46																											
ZZZZZZ			19:51																											
ZZZZZZ			19:56																											
ZZZZZZ			20:01																											

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 05/08/2015 09:09 End Date: 05/09/2015 00:37

Lab Sample Id	D/F	Type	Time	Analytes																										
				Be	Pb	Tl																								
ZZZZZZ			20:06																											
CCV 180-141088/86			20:11																											
CCB8 180-141088/87			20:20																											
ZZZZZZ			20:25																											
ZZZZZZ			20:31																											
ZZZZZZ			20:36																											
ZZZZZZ			20:41																											
ZZZZZZ			20:46																											
ZZZZZZ			20:51																											
ZZZZZZ			20:56																											
CCV 180-141088/95	1		21:16	X	X	X																								
CCB9 180-141088/96	1		21:25	X	X	X																								
LCS 180-140485/2-A	1	R	21:30	X	X	X																								
ZZZZZZ			21:35																											
ZZZZZZ			21:40																											
ZZZZZZ			21:45																											
ZZZZZZ			21:50																											
ZZZZZZ			21:55																											
ZZZZZZ			22:02																											
ZZZZZZ			22:07																											
ZZZZZZ			22:12																											
ZZZZZZ			22:17																											
CCV 180-141088/107	1		22:23	X	X	X																								
CCB10 180-141088/108	1		22:32	X	X	X																								
ZZZZZZ			22:37																											
ZZZZZZ			22:42																											
ZZZZZZ			22:47																											
ZZZZZZ			22:52																											
180-43702-2	1	R	22:57	X	X	X																								
ZZZZZZ			23:02																											
ZZZZZZ			23:08																											
ZZZZZZ			23:13																											
ZZZZZZ			23:18																											
ZZZZZZ			23:23																											
CCV 180-141088/119	1		23:28	X	X	X																								
CCB11 180-141088/120	1		23:37	X	X	X																								
CRI 180-141088/121	1		23:47	X	X	X																								
ZZZZZZ			23:52																											
ZZZZZZ			23:58																											
ZZZZZZ			00:03																											
ZZZZZZ			00:08																											
ZZZZZZ			00:13																											

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 05/08/2015 09:09 End Date: 05/09/2015 00:37

Lab Sample Id	D/F	Type	Time	Analytes																									
				Be	Pb	Tl																							
ZZZZZZ			00:18																										
ZZZZZZ			00:23																										
CCV 180-141088/129			00:28																										
CCB12 180-141088/130			00:37																										

Prep Types:
R = Total Recoverable

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: K Analysis Method: 7470A

Start Date: 05/11/2015 16:45 End Date: 05/11/2015 19:45

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
IC 180-141137/1-A			16:45	X																								
IC 180-141137/2-A			16:47	X																								
IC 180-141137/3-A			16:49	X																								
IC 180-141137/4-A			16:51	X																								
IC 180-141137/5-A			16:53	X																								
IC 180-141137/6-A			16:55	X																								
ICV 180-141137/7-A	1		16:57	X																								
ICB 180-141137/8-A	1		16:59	X																								
CRA 180-141137/9-A	1		17:01	X																								
CCV 180-141137/10-A	1		17:03	X																								
CCB 180-141137/11-A	1		17:05	X																								
ZZZZZZ			17:07																									
ZZZZZZ			17:09																									
ZZZZZZ			17:11																									
ZZZZZZ			17:13																									
ZZZZZZ			17:15																									
ZZZZZZ			17:17																									
ZZZZZZ			17:19																									
ZZZZZZ			17:21																									
ZZZZZZ			17:22																									
ZZZZZZ			17:24																									
CCV 180-141137/10-A			17:26																									
CCB 180-141137/11-A			17:28																									
ZZZZZZ			17:30																									
ZZZZZZ			17:32																									
ZZZZZZ			17:34																									
ZZZZZZ			17:36																									
ZZZZZZ			17:38																									
ZZZZZZ			17:40																									
ZZZZZZ			17:42																									
ZZZZZZ			17:44																									
ZZZZZZ			17:45																									
ZZZZZZ			17:47																									
CCV 180-141137/10-A	1		17:49	X																								
CCB 180-141137/11-A	1		17:51	X																								
MB 180-141138/1-A	1	T	17:53	X																								
LCS 180-141138/2-A	1	T	17:55	X																								
ZZZZZZ			17:57																									
ZZZZZZ			17:59																									
ZZZZZZ			18:01																									
ZZZZZZ			18:03																									
ZZZZZZ			18:05																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: K Analysis Method: 7470A

Start Date: 05/11/2015 16:45 End Date: 05/11/2015 19:45

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
ZZZZZZ			18:07																									
ZZZZZZ			18:09																									
ZZZZZZ			18:10																									
CCV 180-141137/10-A	1		18:12	X																								
CCB 180-141137/11-A	1		18:14	X																								
ZZZZZZ			18:16																									
ZZZZZZ			18:18																									
ZZZZZZ			18:20																									
ZZZZZZ			18:22																									
ZZZZZZ			18:24																									
ZZZZZZ			18:26																									
ZZZZZZ			18:28																									
ZZZZZZ			18:30																									
180-43702-1	1	T	18:32	X																								
180-43702-2	1	T	18:33	X																								
CCV 180-141137/10-A	1		18:35	X																								
CCB 180-141137/11-A	1		18:37	X																								
ZZZZZZ			18:39																									
ZZZZZZ			18:41																									
ZZZZZZ			18:43																									
ZZZZZZ			18:45																									
ZZZZZZ			18:47																									
ZZZZZZ			18:49																									
ZZZZZZ			18:51																									
ZZZZZZ			18:53																									
ZZZZZZ			18:55																									
ZZZZZZ			18:56																									
CCV 180-141137/10-A			18:58																									
CCB 180-141137/11-A			19:00																									
ZZZZZZ			19:02																									
ZZZZZZ			19:04																									
ZZZZZZ			19:06																									
ZZZZZZ			19:08																									
ZZZZZZ			19:10																									
ZZZZZZ			19:12																									
ZZZZZZ			19:14																									
ZZZZZZ			19:16																									
ZZZZZZ			19:18																									
ZZZZZZ			19:20																									
CCV 180-141137/10-A			19:22																									
CCB 180-141137/11-A			19:23																									
ZZZZZZ			19:26																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: K Analysis Method: 7470A

Start Date: 05/11/2015 16:45 End Date: 05/11/2015 19:45

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
ZZZZZZ			19:28																									
ZZZZZZ			19:29																									
ZZZZZZ			19:31																									
ZZZZZZ			19:33																									
ZZZZZZ			19:35																									
ZZZZZZ			19:37																									
ZZZZZZ			19:39																									
ZZZZZZ			19:41																									
CCV 180-141137/10-A			19:43																									
CCB 180-141137/11-A			19:45																									

Prep Types:
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: K Analysis Method: 7470A

Start Date: 05/12/2015 07:18 End Date: 05/12/2015 08:45

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
IC 180-141137/1-A			07:18	X																								
IC 180-141137/2-A			07:20	X																								
IC 180-141137/3-A			07:22	X																								
IC 180-141137/4-A			07:24	X																								
IC 180-141137/5-A			07:25	X																								
IC 180-141137/6-A			07:27	X																								
ICV 180-141137/7-A	1		07:30	X																								
ICB 180-141137/8-A	1		07:32	X																								
CRA 180-141137/9-A	1		07:34	X																								
CCV 180-141137/10-A	1		07:36	X																								
CCB 180-141137/11-A	1		07:38	X																								
180-43702-3	1	T	07:40	X																								
180-43702-4	1	T	07:42	X																								
ZZZZZZ			07:44																									
ZZZZZZ			07:45																									
ZZZZZZ			07:47																									
ZZZZZZ			07:49																									
ZZZZZZ			07:51																									
ZZZZZZ			07:53																									
ZZZZZZ			07:55																									
ZZZZZZ			07:57																									
CCV 180-141137/10-A	1		07:59	X																								
CCB 180-141137/11-A	1		08:01	X																								
ZZZZZZ			08:03																									
ZZZZZZ			08:05																									
ZZZZZZ			08:07																									
ZZZZZZ			08:08																									
ZZZZZZ			08:10																									
ZZZZZZ			08:12																									
ZZZZZZ			08:14																									
ZZZZZZ			08:16																									
ZZZZZZ			08:18																									
ZZZZZZ			08:20																									
CCV 180-141137/10-A			08:22																									
CCB 180-141137/11-A			08:24																									
ZZZZZZ			08:26																									
ZZZZZZ			08:28																									
ZZZZZZ			08:30																									
ZZZZZZ			08:32																									
ZZZZZZ			08:33																									
ZZZZZZ			08:35																									
ZZZZZZ			08:37																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: K Analysis Method: 7470A

Start Date: 05/12/2015 07:18 End Date: 05/12/2015 08:45

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
ZZZZZZ			08:39																									
ZZZZZZ			08:41																									
CCV 180-141137/10-A			08:43																									
CCB 180-141137/11-A			08:45																									

Prep Types:
T = Total/NA

FORM XIII-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 05/07/2015 End Date: 05/07/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD1 180-141080/2 I	16:33	100		100		100		100		100	
STD2 180-141080/3 I	16:46	97		106		99		94		95	
STD3 180-141080/4 I	16:50	108		107		102		103		101	
ICV 180-141080/5	16:53	111		113		107		99		97	
ICB 180-141080/6	17:23	96		107		104		104		103	
CRI 180-141080/7	17:25	97		107		105		105		105	
ICSA 180-141080/8	17:29	78		92		90		86		89	
ICSAB 180-141080/9	17:33	79		90		88		84		86	
CCV 180-141080/10	17:40	83		98		95		94		95	
CCB1 180-141080/11	17:47	96		105		105		107		107	
MB 180-140485/1-A	17:51	98		108		104		105		103	
LCS 180-140485/2-A	17:55			90		87		84		82	
CCV 180-141080/22	18:36	118		119		103		100		97	
CCB2 180-141080/23	18:43	113		115		114		113		107	
180-43702-1	19:02	103		91		89		90		89	
180-43702-2	19:06	36		87		87		88		86	
180-43702-3	19:09	99		86		88		89		89	
180-43702-4	19:13	97		86		89		89		90	
CCV 180-141080/34	19:25	110		111		95		94		90	
CCB3 180-141080/35	19:31	112		114		104		105		100	
CRI 180-141080/51	20:42	117		117		108		105		98	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 05/07/2015 End Date: 05/07/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 180-141080/2 I	16:33	100		100		100					
STD2 180-141080/3 I	16:46	97		96		111					
STD3 180-141080/4 I	16:50	100		99		104					
ICV 180-141080/5	16:53	95		93		106					
ICB 180-141080/6	17:23	101		99		93					
CRI 180-141080/7	17:25	105		104		106					
ICSA 180-141080/8	17:29	96		96		109					
ICSAB 180-141080/9	17:33	92		93		97					
CCV 180-141080/10	17:40	98		97		102					
CCB1 180-141080/11	17:47	107		107		106					
MB 180-140485/1-A	17:51	102		100		96					
LCS 180-140485/2-A	17:55	84		83							
CCV 180-141080/22	18:36	94		92		102					
CCB2 180-141080/23	18:43	99		97		91					
180-43702-1	19:02	92		91		86					
180-43702-2	19:06	87		86							
180-43702-3	19:09	93		93		90					
180-43702-4	19:13	95		95		94					
CCV 180-141080/34	19:25	88		87		92					
CCB3 180-141080/35	19:31	94		93		91					
CRI 180-141080/51	20:42	92		89		84					

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

ICP-MS Instrument ID: X Start Date: 05/08/2015 End Date: 05/08/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD1 180-141088/2 I	12:04	100		100		100		100		100	
STD2 180-141088/3 I	12:09	94		95		92		77		82	
STD3 180-141088/4 I	12:14	103		102		98		93		93	
ICV 180-141088/5	12:19	96		98		96		88		91	
ICB 180-141088/6	12:24	101		102		99		93		96	
CRI 180-141088/7	12:29	96		99		99		86		87	
ICSA 180-141088/8	12:35	70		76		80		67		74	
ICSAB 180-141088/9	12:40	66		73		79		69		76	
CCV 180-141088/10	12:49	79		82		84		73		78	
CCB1 180-141088/11	12:58	86		88		94		91		94	
CCV 180-141088/95	21:16	101		98		87		75		77	
CCB9 180-141088/96	21:25	109		104		99		90		96	
LCS 180-140485/2-A	21:30	57		57		63		56		59	
CCV 180-141088/107	22:23	80		85		80		68		72	
CCB10 180-141088/10	22:32	97		95		93		89		91	
180-43702-2	22:57	66		63		67		64		65	
CCV 180-141088/119	23:28	94		93		85		73		75	
CCB11 180-141088/12	23:37	108		102		95		92		92	
CRI 180-141088/121	23:47	101		102		107		84		78	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

ICP-MS Instrument ID: X Start Date: 05/08/2015 End Date: 05/08/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 180-141088/2 I	12:04	100		100		100					
STD2 180-141088/3 I	12:09	81		80		56					
STD3 180-141088/4 I	12:14	92		92		76					
ICV 180-141088/5	12:19	93		94		82					
ICB 180-141088/6	12:24	94		94		81					
CRI 180-141088/7	12:29	84		82		60					
ICSA 180-141088/8	12:35	83		84		67					
ICSAB 180-141088/9	12:40	86		88		76					
CCV 180-141088/10	12:49	84		85		64					
CCB1 180-141088/11	12:58	98		99		96					
CCV 180-141088/95	21:16	78		78		58					
CCB9 180-141088/96	21:25	94		94		94					
LCS 180-140485/2-A	21:30	70		71		57					
CCV 180-141088/107	22:23	76		75		55					
CCB10 180-141088/10	22:32	91		91		93					
180-43702-2	22:57	73		74		66					
CCV 180-141088/119	23:28	78		77		56					
CCB11 180-141088/12	23:37	89		90		92					
CRI 180-141088/121	23:47	85		86		77					

Dilution Corrected Concentrations

STD1 1542084 INT STD 5/7/2015 4:33:55 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:15	101.782%	-0.028	-0.003	-0.032	0.000	-0.208	-0.141	-0.027
2	16:34:34	99.074%	0.014	-0.070	0.060	0.000	0.166	0.223	-0.009
3	16:34:53	99.145%	0.014	0.073	-0.027	0.000	0.042	-0.081	0.036
x		100.000%	-0.000	-0.000	-0.000	0.000	-0.000	-0.000	-0.000
σ		1.543%	0.024	0.071	0.052	0.000	0.190	0.195	0.032
%RSD		1.543	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:15	0.048	3.607	0.000	-0.246	-2.280	-0.043	99.934%	0.061
2	16:34:34	0.073	1.160	0.000	0.144	-2.313	-1.239	100.455%	-0.019
3	16:34:53	-0.121	-4.767	0.000	0.102	4.593	1.282	99.611%	-0.042
x		-0.000	0.000	0.000	-0.000	0.000	-0.000	100.000%	0.000
σ		0.106	4.306	0.000	0.214	3.978	1.261	0.426%	0.054
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.426	0.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:15	0.007	0.020	-0.002	0.772	0.584	-0.002	0.012	0.019
2	16:34:34	-0.012	-0.008	-0.001	-0.709	-0.335	0.001	0.002	-0.009
3	16:34:53	0.006	-0.012	0.003	-0.063	-0.250	0.001	-0.014	-0.010
x		-0.000	0.000	-0.000	0.000	0.000	0.000	-0.000	0.000
σ		0.011	0.018	0.003	0.742	0.508	0.002	0.013	0.017
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:15	-0.020	0.007	0.071	-0.048	0.007	-0.165	0.000	0.000
2	16:34:34	0.031	-0.069	0.067	0.044	-0.068	0.195	0.000	0.003
3	16:34:53	-0.012	0.062	-0.138	0.004	0.061	-0.030	0.000	-0.003
x		-0.000	0.000	-0.000	-0.000	-0.000	-0.000	0.000	0.000
σ		0.028	0.066	0.120	0.046	0.065	0.182	0.000	0.003
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:15	99.345%	0.002	0.010	99.840%	-0.004	0.003	-0.022	-0.007
2	16:34:34	100.217%	0.003	-0.007	100.034%	0.002	-0.001	0.034	0.015
3	16:34:53	100.439%	-0.005	-0.003	100.126%	0.002	-0.001	-0.012	-0.007
x		100.000%	-0.000	-0.000	100.000%	0.000	-0.000	0.000	0.000
σ		0.578%	0.004	0.009	0.146%	0.004	0.002	0.030	0.013
%RSD		0.578	0.000	0.000	0.146	0.000	0.000	0.000	0.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:15	99.714%	-0.017	-0.002	0.006	0.009	0.001	98.881%	98.450%
2	16:34:34	100.444%	-0.006	0.001	-0.008	0.008	0.017	99.974%	100.505%
3	16:34:53	99.842%	0.023	0.001	0.002	-0.017	-0.018	101.145%	101.045%
x		100.000%	-0.000	0.000	0.000	-0.000	0.000	100.000%	100.000%
σ		0.390%	0.021	0.002	0.007	0.015	0.018	1.132%	1.369%
%RSD		0.390	0.000	0.000	0.000	0.000	0.000	1.132	1.369

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:34:15	-0.001	0.001	-0.002	-0.005	-0.001	100.297%
2	16:34:34	0.001	0.002	0.003	0.001	0.001	99.846%
3	16:34:53	-0.000	-0.002	-0.002	0.004	0.000	99.857%
x		-0.000	0.000	-0.000	0.000	-0.000	100.000%
σ		0.001	0.002	0.003	0.005	0.001	0.258%
%RSD		0.000	0.000	0.000	0.000	0.000	0.258

STD2 1558995 5/7/2015 4:46:40 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:40	94.838%	199.800	0.450	0.220	0.000	98690.000	98560.000	99090.000
2	16:46:59	96.854%	197.700	0.729	0.183	0.000	101100.000	100800.000	100300.000
3	16:47:18	99.739%	202.500	0.211	0.215	0.000	100200.000	100600.000	100600.000
x		97.144%	200.000	0.463	0.206	0.000	100000.000	100000.000	100000.000
σ		2.463%	2.426	0.259	0.020	0.000	1220.000	1250.000	798.000
%RSD		2.536	1.213	55.930	9.774	0.000	1.220	1.250	0.798

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:40	981.500	-48.450	0.000	97870.000	96900.000	96240.000	107.760%	0.137
2	16:46:59	1011.000	-45.710	0.000	100400.000	100500.000	101300.000	105.043%	0.098
3	16:47:18	1008.000	-46.550	0.000	101700.000	102600.000	102400.000	104.706%	0.055
x		1000.000	-46.900	0.000	100000.000	100000.000	100000.000	105.836%	0.097
σ		16.090	1.406	0.000	1956.000	2879.000	3296.000	1.675%	0.041
%RSD		1.609	2.997	0.000	1.956	2.879	3.296	1.582	42.160

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:40	191.600	192.200	966.500	48200.000	48300.000	193.100	195.200	194.700
2	16:46:59	202.500	203.100	1008.000	50290.000	50120.000	201.000	197.800	199.900
3	16:47:18	205.900	204.700	1025.000	51510.000	51580.000	205.900	207.000	205.400
x		200.000	200.000	1000.000	50000.000	50000.000	200.000	200.000	200.000
σ		7.461	6.821	30.220	1672.000	1647.000	6.464	6.193	5.360
%RSD		3.731	3.410	3.022	3.344	3.293	3.232	3.096	2.680

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:40	195.100	195.700	195.200	196.600	196.800	197.900	0.000	198.500
2	16:46:59	199.800	200.200	202.400	200.600	200.600	199.400	0.000	200.400
3	16:47:18	205.100	204.200	202.300	202.800	202.600	202.700	0.000	201.200
x		200.000	200.000	200.000	200.000	200.000	200.000	0.000	200.000
σ		5.015	4.263	4.126	3.128	2.980	2.449	0.000	1.381
%RSD		2.507	2.132	2.063	1.564	1.490	1.224	0.000	0.690

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:40	97.745%	0.106	0.121	93.062%	198.200	198.400	198.700	198.300
2	16:46:59	98.328%	0.115	0.131	94.371%	201.000	200.800	200.800	200.600
3	16:47:18	99.384%	0.071	0.119	94.377%	200.800	200.800	200.500	201.100
x		98.486%	0.098	0.124	93.937%	200.000	200.000	200.000	200.000
σ		0.831%	0.024	0.006	0.758%	1.557	1.376	1.162	1.510
%RSD		0.844	24.100	5.200	0.807	0.778	0.688	0.581	0.755

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:40	93.735%	0.144	0.168	0.191	198.600	197.000	96.704%	95.520%
2	16:46:59	94.415%	0.137	0.180	0.189	200.400	201.700	96.581%	96.029%
3	16:47:18	95.256%	0.139	0.197	0.193	201.000	201.300	97.486%	97.649%
x		94.469%	0.140	0.182	0.191	200.000	200.000	96.924%	96.399%
σ		0.762%	0.003	0.015	0.002	1.279	2.579	0.491%	1.112%
%RSD		0.807	2.288	8.015	1.057	0.640	1.290	0.506	1.154

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:40	188.300	186.200	186.800	185.000	185.500	117.068%
2	16:46:59	200.000	200.400	200.200	202.600	201.200	110.296%
3	16:47:18	211.700	213.400	213.000	212.400	213.300	104.372%
x		200.000	200.000	200.000	200.000	200.000	110.579%
σ		11.680	13.590	13.120	13.910	13.960	6.353%
%RSD		5.842	6.796	6.558	6.953	6.978	5.745

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:16	114.408%	0.166	198.700	202.800	0.000	20.430	15.950	16.850
2	16:50:36	105.658%	0.110	213.300	206.000	0.000	19.510	16.860	16.030
3	16:50:55	104.976%	-0.004	188.000	191.200	0.000	18.160	15.100	15.640
x		108.348%	0.091	200.000	200.000	0.000	19.360	15.970	16.170
σ		5.260%	0.087	12.690	7.805	0.000	1.139	0.882	0.617
%RSD		4.855	95.700	6.346	3.902	0.000	5.882	5.527	3.817
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:16	20.430	9984.000	0.000	13.230	25.590	70.610	110.338%	195.700
2	16:50:36	20.840	10160.000	0.000	12.360	9.873	66.930	106.943%	202.500
3	16:50:55	20.290	9858.000	0.000	11.770	30.940	66.940	104.567%	201.800
x		20.520	10000.000	0.000	12.450	22.130	68.160	107.283%	200.000
σ		0.286	150.700	0.000	0.733	10.950	2.123	2.900%	3.721
%RSD		1.395	1.507	0.000	5.884	49.480	3.114	2.703	1.861
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:16	0.048	0.038	0.481	34.380	37.420	0.036	0.122	0.137
2	16:50:36	0.051	0.038	0.315	26.990	28.720	0.038	0.078	0.141
3	16:50:55	0.067	0.060	0.315	22.960	23.180	0.043	0.122	0.125
x		0.055	0.045	0.370	28.110	29.770	0.039	0.108	0.134
σ		0.010	0.013	0.096	5.790	7.177	0.003	0.025	0.008
%RSD		18.370	28.860	25.890	20.600	24.100	8.541	23.420	5.930
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:16	0.116	2.258	2.445	0.313	0.339	0.234	0.000	0.068
2	16:50:36	0.196	2.446	2.364	0.247	0.328	0.063	0.000	0.077
3	16:50:55	0.152	2.408	2.653	0.228	0.439	0.132	0.000	0.066
x		0.155	2.371	2.487	0.263	0.369	0.143	0.000	0.070
σ		0.040	0.100	0.149	0.045	0.062	0.086	0.000	0.006
%RSD		25.790	4.211	5.987	17.140	16.710	60.070	0.000	8.677
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:16	100.554%	196.300	195.500	102.643%	0.082	0.095	0.140	-0.441
2	16:50:36	102.145%	200.400	201.000	103.599%	0.062	0.100	0.091	-0.291
3	16:50:55	102.572%	203.400	203.500	103.453%	0.078	0.083	0.088	-0.540
x		101.757%	200.000	200.000	103.232%	0.074	0.093	0.107	-0.424
σ		1.064%	3.573	4.070	0.515%	0.010	0.009	0.029	0.125
%RSD		1.045	1.786	2.035	0.499	13.880	9.304	27.340	29.580
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:50:16	99.837%	197.600	197.700	198.700	0.166	0.385	96.634%	96.459%
2	16:50:36	101.114%	200.500	200.500	200.200	0.116	0.333	100.655%	99.692%
3	16:50:55	102.160%	201.900	201.800	201.100	0.172	0.357	101.558%	101.442%
x		101.037%	200.000	200.000	200.000	0.151	0.358	99.616%	99.197%
σ		1.164%	2.218	2.136	1.225	0.030	0.026	2.621%	2.528%
%RSD		1.152	1.109	1.068	0.613	20.090	7.309	2.631	2.548
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:50:16	0.070	0.067	0.102	0.104	0.105	103.266%		
2	16:50:36	0.064	0.063	0.100	0.087	0.097	103.899%		
3	16:50:55	0.070	0.061	0.083	0.105	0.108	104.669%		
x		0.068	0.064	0.095	0.099	0.104	103.945%		
σ		0.003	0.003	0.010	0.010	0.006	0.703%		
%RSD		5.012	5.292	10.760	10.040	5.314	0.676		

ICV 1527873 5/7/2015 4:53:53 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:53:53	112.406%	81.060	79.840	81.710	0.000	39360.000	39180.000	39120.000
2	16:54:13	109.780%	80.750	86.390	83.590	0.000	40880.000	40810.000	41350.000
3	16:54:32	111.867%	80.460	82.980	82.710	0.000	39410.000	39390.000	39850.000
x		111.351%	100.949%	103.835%	103.340%	0.000	99.707%	99.481%	100.265%
σ		1.387%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.246	0.374	3.945	1.140	0.000	2.165	2.234	2.834
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:53:53	412.200	4153.000	0.000	39410.000	39340.000	39300.000	115.559%	76.480
2	16:54:13	431.200	4420.000	0.000	41690.000	41470.000	41820.000	111.029%	79.510
3	16:54:32	413.000	4245.000	0.000	40790.000	40670.000	41350.000	110.980%	80.210
x		104.700%	106.815%	0.000	101.576%	101.232%	102.060%	112.523%	98.418%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.630%	n/a
%RSD		2.569	3.176	0.000	2.818	2.667	3.280	2.337	2.519
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:53:53	79.970	80.490	381.500	19440.000	19210.000	78.600	81.340	81.610
2	16:54:13	82.950	84.030	405.300	20340.000	20060.000	81.680	85.090	83.740
3	16:54:32	82.840	83.220	407.100	20390.000	20350.000	82.580	85.090	84.560
x		102.400%	103.226%	99.491%	100.278%	99.379%	101.195%	104.798%	104.126%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.058	2.244	3.590	2.681	2.979	2.577	2.586	1.830
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:53:53	80.540	79.120	79.280	79.400	83.480	80.870	0.000	74.430
2	16:54:13	83.470	82.200	82.770	80.710	83.970	81.790	0.000	75.600
3	16:54:32	83.760	81.930	82.280	81.220	82.860	83.460	0.000	75.380
x		103.237%	101.355%	101.802%	100.556%	104.293%	102.548%	0.000	93.918%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.159	2.099	2.320	1.172	0.666	1.601	0.000	0.830
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:53:53	106.039%	77.150	77.840	98.118%	79.330	80.100	79.540	80.160
2	16:54:13	107.491%	78.310	80.500	98.778%	80.420	80.980	81.270	81.910
3	16:54:32	108.107%	79.860	80.660	99.309%	80.100	80.500	81.570	81.190
x		107.212%	98.052%	99.584%	98.735%	99.939%	100.660%	100.992%	101.357%
σ		1.062%	n/a	n/a	0.597%	n/a	n/a	n/a	n/a
%RSD		0.991	1.729	1.987	0.605	0.705	0.547	1.353	1.085
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:53:53	95.440%	79.180	78.370	79.180	79.690	79.870	92.631%	91.480%
2	16:54:13	96.484%	80.570	80.430	80.490	81.280	80.990	95.733%	93.969%
3	16:54:32	97.702%	81.020	80.180	80.130	81.050	80.390	95.168%	94.323%
x		96.542%	100.318%	99.572%	99.917%	100.842%	100.523%	94.511%	93.257%
σ		1.132%	n/a	n/a	n/a	n/a	n/a	1.653%	1.549%
%RSD		1.172	1.197	1.407	0.850	1.066	0.698	1.749	1.661
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:53:53	80.250	82.310	78.340	75.660	76.440	106.419%		
2	16:54:13	82.420	85.310	81.430	78.470	79.460	106.891%		
3	16:54:32	82.510	84.830	81.660	78.980	79.900	105.537%		
x		102.159%	105.190%	100.598%	97.128%	98.250%	106.282%		
σ		n/a	n/a	n/a	n/a	n/a	0.687%		
%RSD		1.570	1.916	2.301	2.297	2.393	0.647		

ICB 5/7/2015 5:23:06 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:23:26	97.420%	0.097	0.363	0.106	0.000	9.623	2.572	2.843
2	17:23:45	95.985%	-0.039	0.080	0.156	0.000	9.129	3.159	2.953
3	17:24:04	93.583%	0.075	0.161	0.164	0.000	8.814	2.517	3.192
x		95.662%	0.044	0.201	0.142	0.000	9.189	2.749	2.996
σ		1.939%	0.073	0.146	0.032	0.000	0.408	0.356	0.179
%RSD		2.027	164.600	72.520	22.210	0.000	4.440	12.940	5.964

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:23:26	0.406	-126.900	0.000	9.062	-0.730	3.338	107.336%	0.073
2	17:23:45	0.151	-125.800	0.000	10.810	11.350	3.989	105.437%	0.108
3	17:24:04	0.217	-126.300	0.000	7.954	11.000	4.183	107.378%	0.105
x		0.258	-126.400	0.000	9.276	7.207	3.837	106.717%	0.095
σ		0.132	0.508	0.000	1.441	6.875	0.443	1.109%	0.019
%RSD		51.310	0.402	0.000	15.530	95.400	11.530	1.039	20.040

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:23:26	-0.002	-0.029	0.054	8.054	7.728	0.003	0.009	-0.017
2	17:23:45	0.011	-0.006	0.050	7.637	7.343	0.005	0.028	-0.008
3	17:24:04	-0.001	0.009	0.061	6.153	5.125	0.002	0.014	-0.019
x		0.003	-0.009	0.055	7.282	6.732	0.003	0.017	-0.015
σ		0.007	0.019	0.006	0.999	1.405	0.001	0.010	0.006
%RSD		260.700	214.200	10.170	13.720	20.870	41.660	58.720	38.640

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:23:26	0.013	0.067	0.135	0.043	0.696	0.138	0.000	0.015
2	17:23:45	0.008	0.075	0.176	0.010	0.561	-0.004	0.000	0.019
3	17:24:04	-0.027	0.155	0.199	-0.003	0.243	-0.115	0.000	0.018
x		-0.002	0.099	0.170	0.017	0.500	0.006	0.000	0.017
σ		0.021	0.049	0.033	0.023	0.232	0.127	0.000	0.002
%RSD		1002.000	49.610	19.240	139.600	46.490	2037.000	0.000	10.650

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:23:26	102.471%	0.702	0.700	102.793%	-0.006	-0.002	0.029	0.022
2	17:23:45	104.339%	0.589	0.632	104.463%	-0.001	0.003	0.031	0.018
3	17:24:04	105.647%	0.607	0.586	105.604%	-0.001	0.005	-0.013	-0.015
x		104.152%	0.633	0.639	104.287%	-0.003	0.002	0.016	0.008
σ		1.596%	0.061	0.057	1.414%	0.003	0.004	0.025	0.021
%RSD		1.533	9.620	8.924	1.356	94.940	174.900	156.000	247.800

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:23:26	101.140%	-0.052	-0.032	-0.054	-0.010	0.026	97.767%	95.770%
2	17:23:45	103.311%	-0.008	-0.032	-0.046	-0.004	0.020	101.230%	99.940%
3	17:24:04	104.693%	-0.079	-0.038	-0.028	0.023	-0.003	103.893%	102.582%
x		103.048%	-0.046	-0.034	-0.043	0.003	0.014	100.963%	99.431%
σ		1.791%	0.036	0.003	0.013	0.018	0.015	3.072%	3.435%
%RSD		1.738	77.840	9.831	30.880	528.300	110.000	3.042	3.454

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:23:26	0.018	0.010	0.022	0.007	0.012	89.698%
2	17:23:45	0.017	0.018	0.010	0.012	0.007	91.688%
3	17:24:04	0.017	0.017	0.013	0.001	0.006	96.356%
x		0.017	0.015	0.015	0.006	0.008	92.580%
σ		0.001	0.004	0.007	0.005	0.003	3.417%
%RSD		4.439	29.810	44.020	84.290	40.430	3.691

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:26:17	95.141%	0.911	18.680	19.440	0.000	467.300	477.400	487.300
2	17:26:37	98.300%	1.020	20.330	18.600	0.000	470.800	474.100	487.600
3	17:26:56	98.794%	0.988	18.260	19.780	0.000	484.300	493.300	500.100
x		97.412%	97.306%	95.464%	96.373%	0.000	94.830%	96.322%	98.332%
σ		1.982%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.035	5.732	5.730	3.149	0.000	1.893	2.136	1.482
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:26:17	34.510	369.400	0.000	478.200	518.300	448.200	109.655%	4.853
2	17:26:37	34.070	366.200	0.000	488.400	512.100	459.000	105.952%	4.993
3	17:26:56	35.130	373.000	0.000	484.200	509.500	470.600	105.327%	4.828
x		115.245%	73.903%	0.000	96.722%	102.665%	91.859%	106.978%	97.828%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.339%	n/a
%RSD		1.539	0.925	0.000	1.066	0.876	2.437	2.187	1.817
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:26:17	0.913	1.962	4.758	51.190	55.370	0.484	0.959	2.147
2	17:26:37	0.976	2.012	4.891	53.120	54.920	0.497	1.025	2.103
3	17:26:56	1.032	2.007	4.999	52.810	53.370	0.537	1.156	2.134
x		97.385%	99.674%	97.653%	104.746%	109.113%	101.207%	104.668%	106.405%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		6.107	1.387	2.468	1.977	1.924	5.485	9.587	1.043
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:26:17	1.998	5.084	5.340	1.124	5.840	5.054	0.000	4.875
2	17:26:37	2.194	5.556	5.390	0.979	5.403	5.260	0.000	4.781
3	17:26:56	2.066	5.586	5.347	1.028	5.784	5.319	0.000	4.822
x		104.298%	108.173%	107.184%	104.378%	113.516%	104.224%	0.000	96.518%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		4.785	5.200	0.504	7.087	4.198	2.667	0.000	0.985
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:26:17	103.777%	5.069	5.171	104.719%	1.028	1.015	0.966	0.979
2	17:26:37	105.005%	5.293	5.087	105.469%	0.993	1.049	0.941	0.977
3	17:26:56	104.912%	5.178	5.170	105.609%	0.998	1.040	0.974	0.985
x		104.564%	103.600%	102.853%	105.266%	100.623%	103.470%	96.036%	98.060%
σ		0.684%	n/a	n/a	0.479%	n/a	n/a	n/a	n/a
%RSD		0.654	2.169	0.942	0.455	1.877	1.720	1.766	0.416
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:26:17	103.636%	4.493	1.788	1.890	9.460	9.377	102.090%	101.318%
2	17:26:37	104.598%	4.615	1.993	1.822	9.765	9.721	104.621%	103.922%
3	17:26:56	105.685%	4.450	1.873	1.945	9.523	9.650	106.697%	105.202%
x		104.640%	90.388%	94.240%	94.279%	95.828%	95.826%	104.469%	103.481%
σ		1.025%	n/a	n/a	n/a	n/a	n/a	2.307%	1.979%
%RSD		0.979	1.898	5.486	3.255	1.679	1.898	2.208	1.913
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:26:17	1.065	1.111	1.092	1.061	1.085	104.972%		
2	17:26:37	1.107	1.148	1.058	1.128	1.092	106.401%		
3	17:26:56	1.136	1.161	1.110	1.101	1.115	105.987%		
x		110.302%	113.995%	108.684%	109.666%	109.693%	105.787%		
σ		n/a	n/a	n/a	n/a	n/a	0.735%		
%RSD		3.222	2.256	2.415	3.068	1.430	0.695		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:08	78.835%	0.071	0.670	0.527	0.000	110200.000	109000.000	108300.000
2	17:30:27	80.763%	0.035	0.566	0.371	0.000	106900.000	106100.000	107700.000
3	17:30:46	75.123%	-0.010	0.897	0.734	0.000	108100.000	107700.000	108800.000
x		78.240%	0.032	0.711	0.544	0.000	108400.000	107600.000	108300.000
σ		2.867%	0.041	0.170	0.182	0.000	1701.000	1440.000	520.400
%RSD		3.664	128.000	23.870	33.460	0.000	1.569	1.338	0.481
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:08	109100.000	-109.000	0.000	104600.000	104400.000	105900.000	93.563%	2052.000
2	17:30:27	110700.000	-109.400	0.000	106600.000	107200.000	109000.000	91.803%	2073.000
3	17:30:46	110700.000	-109.900	0.000	108600.000	106800.000	108900.000	90.004%	2106.000
x		110200.000	-109.400	0.000	106600.000	106100.000	108000.000	91.790%	2077.000
σ		906.900	0.453	0.000	1981.000	1553.000	1763.000	1.780%	27.130
%RSD		0.823	0.414	0.000	1.859	1.463	1.633	1.939	1.306
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:08	-0.293	0.441	0.506	103100.000	104500.000	0.054	-0.277	1.343
2	17:30:27	-0.312	0.603	0.532	104900.000	105500.000	0.057	-0.233	1.340
3	17:30:46	-0.399	0.603	0.516	106800.000	107200.000	0.069	-0.142	1.294
x		-0.335	0.549	0.518	104900.000	105700.000	0.060	-0.217	1.326
σ		0.056	0.093	0.013	1854.000	1392.000	0.008	0.069	0.028
%RSD		16.800	17.010	2.513	1.766	1.316	13.910	31.530	2.075
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:08	1.232	2.107	1.651	0.066	-0.281	0.114	0.000	0.701
2	17:30:27	1.312	2.181	1.653	-0.111	-0.591	-0.097	0.000	0.664
3	17:30:46	1.170	2.289	1.684	-0.087	-0.174	-0.198	0.000	0.725
x		1.238	2.192	1.663	-0.044	-0.349	-0.060	0.000	0.697
σ		0.071	0.092	0.019	0.096	0.216	0.159	0.000	0.031
%RSD		5.731	4.186	1.117	218.000	62.080	264.700	0.000	4.406
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:08	89.354%	2182.000	2262.000	84.979%	0.045	0.040	0.276	0.274
2	17:30:27	90.343%	2195.000	2273.000	85.491%	0.043	0.038	0.422	0.257
3	17:30:46	90.570%	2209.000	2287.000	86.190%	0.058	0.047	0.403	0.226
x		90.089%	2195.000	2274.000	85.554%	0.049	0.042	0.367	0.252
σ		0.647%	13.550	12.270	0.608%	0.008	0.005	0.079	0.024
%RSD		0.718	0.617	0.539	0.710	16.590	11.240	21.590	9.675
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:30:08	86.996%	0.044	0.019	0.003	0.174	0.095	93.614%	94.115%
2	17:30:27	88.698%	0.055	0.005	0.017	0.161	0.138	96.520%	96.646%
3	17:30:46	90.253%	0.029	0.022	0.018	0.106	0.104	98.401%	97.769%
x		88.649%	0.042	0.015	0.013	0.147	0.113	96.179%	96.176%
σ		1.629%	0.013	0.009	0.008	0.036	0.023	2.412%	1.872%
%RSD		1.838	31.100	58.020	63.680	24.480	20.190	2.507	1.946
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:30:08	0.020	0.017	0.218	0.200	0.205	115.903%		
2	17:30:27	0.019	0.017	0.259	0.223	0.241	107.442%		
3	17:30:46	0.019	0.016	0.261	0.258	0.247	102.999%		
x		0.019	0.017	0.246	0.227	0.231	108.781%		
σ		0.000	0.001	0.024	0.029	0.023	6.555%		
%RSD		2.245	4.557	9.910	12.770	9.806	6.026		

ICSAB 1558998 5/7/2015 5:33:39 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:33:59	82.165%	20.380	53.100	53.140	0.000	109900.000	109400.000	108300.000
2	17:34:18	76.954%	21.560	51.000	52.630	0.000	110100.000	106800.000	110100.000
3	17:34:37	77.925%	22.390	55.160	52.950	0.000	112900.000	110100.000	112100.000
x		79.015%	107.216%	106.173%	105.810%	0.000	110.989%	108.798%	110.182%
σ		2.771%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		3.507	4.712	3.922	0.480	0.000	1.521	1.613	1.711

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:33:59	110300.000	425.500	0.000	106300.000	106700.000	108900.000	92.223%	2084.000
2	17:34:18	111800.000	432.700	0.000	110400.000	110600.000	111800.000	89.570%	2164.000
3	17:34:37	114200.000	446.900	0.000	111800.000	110600.000	112400.000	87.943%	2151.000
x		112.094%	87.002%	0.000	109.486%	109.299%	111.047%	89.912%	106.648%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.161%	n/a
%RSD		1.782	2.506	0.000	2.603	2.020	1.712	2.403	2.021

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:33:59	20.860	21.350	20.600	106000.000	107100.000	20.850	20.830	21.900
2	17:34:18	21.520	22.110	21.260	109100.000	110200.000	21.120	20.790	22.410
3	17:34:37	20.930	21.790	21.290	107800.000	109500.000	21.180	21.140	22.460
x		105.507%	108.743%	91.516%	107.645%	108.937%	105.245%	104.596%	111.294%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.711	1.752	1.847	1.454	1.488	0.824	0.902	1.406

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:33:59	22.240	22.650	22.330	21.940	53.940	54.480	0.000	21.320
2	17:34:18	21.950	23.650	22.140	22.070	54.780	56.270	0.000	21.230
3	17:34:37	21.770	22.890	22.810	21.930	54.830	54.340	0.000	21.130
x		109.921%	92.258%	89.712%	109.890%	109.030%	110.059%	0.000	106.120%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.086	2.271	1.542	0.350	0.918	1.961	0.000	0.443

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:33:59	86.849%	2245.000	2307.000	82.963%	20.490	20.830	21.490	21.030
2	17:34:18	87.525%	2246.000	2324.000	83.281%	20.830	20.780	21.960	21.320
3	17:34:37	88.348%	2270.000	2341.000	84.109%	20.600	20.650	21.450	21.030
x		87.574%	112.689%	116.195%	83.451%	103.186%	103.763%	108.161%	105.640%
σ		0.751%	n/a	n/a	0.592%	n/a	n/a	n/a	n/a
%RSD		0.857	0.611	0.751	0.709	0.837	0.439	1.319	0.807

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:33:59	84.961%	105.000	21.020	21.090	20.170	20.590	90.880%	91.399%
2	17:34:18	85.852%	106.800	21.260	21.340	20.930	21.070	92.505%	92.970%
3	17:34:37	85.849%	106.700	21.010	21.090	20.880	21.050	93.855%	94.001%
x		85.554%	106.183%	105.469%	105.867%	103.310%	104.510%	92.414%	92.790%
σ		0.514%	n/a	n/a	n/a	n/a	n/a	1.490%	1.310%
%RSD		0.601	0.955	0.677	0.674	2.055	1.307	1.612	1.412

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:33:59	21.220	21.830	21.610	21.850	21.660	99.984%
2	17:34:18	22.040	22.730	22.680	23.060	22.810	96.800%
3	17:34:37	22.950	23.480	23.430	23.660	23.630	94.112%
x		110.348%	113.404%	112.872%	114.281%	113.506%	96.966%
σ		n/a	n/a	n/a	n/a	n/a	2.940%
%RSD		3.937	3.627	4.057	4.020	4.369	3.032

CCV 1558997 5/7/2015 5:40:47 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:47	86.720%	96.270	89.300	89.790	0.000	47500.000	47650.000	48160.000
2	17:41:06	81.213%	99.850	97.470	96.100	0.000	49450.000	48910.000	49340.000
3	17:41:25	82.029%	98.910	93.890	96.290	0.000	49620.000	49460.000	49950.000
x		83.321%	98.343%	93.553%	94.061%	0.000	97.709%	97.350%	98.298%
σ		2.972%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		3.567	1.889	4.379	3.935	0.000	2.405	1.904	1.858

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:47	475.700	4727.000	0.000	48010.000	47180.000	47560.000	100.215%	91.390
2	17:41:06	487.200	4790.000	0.000	49290.000	48850.000	48830.000	98.126%	95.190
3	17:41:25	495.200	4907.000	0.000	50280.000	49620.000	49420.000	95.995%	96.670
x		97.206%	96.155%	0.000	98.390%	97.099%	97.208%	98.112%	94.417%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.110%	n/a
%RSD		2.012	1.900	0.000	2.310	2.572	1.954	2.151	2.889

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:47	94.950	95.620	477.500	24070.000	23720.000	94.940	97.450	97.400
2	17:41:06	97.580	97.780	486.900	24580.000	24220.000	95.660	96.040	96.590
3	17:41:25	96.830	97.340	486.700	24320.000	24340.000	95.390	97.580	98.340
x		96.456%	96.914%	96.734%	97.302%	96.358%	95.330%	97.028%	97.443%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.403	1.180	1.108	1.056	1.362	0.381	0.881	0.900

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:47	95.900	96.090	98.180	99.410	100.700	102.000	0.000	94.280
2	17:41:06	96.210	98.180	98.240	98.850	100.600	101.300	0.000	95.490
3	17:41:25	98.790	99.030	99.760	97.990	101.400	101.400	0.000	95.870
x		96.964%	97.767%	98.730%	98.750%	100.886%	101.602%	0.000	95.212%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.638	1.549	0.907	0.723	0.410	0.379	0.000	0.868

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:47	93.529%	91.520	91.750	92.632%	94.670	95.930	96.260	95.480
2	17:41:06	95.217%	94.620	95.830	93.238%	95.110	95.980	97.140	96.860
3	17:41:25	96.559%	96.220	97.020	94.779%	95.850	95.960	96.560	95.900
x		95.102%	94.120%	94.868%	93.549%	95.212%	95.956%	96.653%	96.079%
σ		1.518%	n/a	n/a	1.107%	n/a	n/a	n/a	n/a
%RSD		1.596	2.536	2.913	1.184	0.628	0.026	0.460	0.735

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:47	92.713%	93.860	95.130	95.350	95.710	94.900	94.096%	93.953%
2	17:41:06	94.518%	94.770	96.250	96.310	95.800	95.410	97.653%	96.554%
3	17:41:25	96.163%	93.880	94.880	96.660	94.740	94.380	100.799%	99.823%
x		94.464%	94.171%	95.420%	96.104%	95.418%	94.896%	97.516%	96.777%
σ		1.725%	n/a	n/a	n/a	n/a	n/a	3.354%	2.942%
%RSD		1.826	0.553	0.762	0.707	0.612	0.541	3.439	3.040

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:40:47	101.500	105.400	102.000	102.400	102.000	98.270%
2	17:41:06	103.400	107.500	104.700	104.900	104.700	102.772%
3	17:41:25	105.500	109.500	106.100	106.200	105.500	104.658%
x		103.479%	107.474%	104.278%	104.475%	104.054%	101.900%
σ		n/a	n/a	n/a	n/a	n/a	3.282%
%RSD		1.970	1.899	1.975	1.856	1.726	3.221

CCB1 5/7/2015 5:47:28 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:47	97.199%	-0.012	0.221	0.167	0.000	11.000	2.783	2.618
2	17:48:06	94.248%	0.018	0.159	0.087	0.000	10.900	2.074	2.297
3	17:48:26	95.145%	0.073	0.230	0.115	0.000	10.330	1.975	2.442
x		95.531%	0.026	0.203	0.123	0.000	10.740	2.278	2.452
σ		1.513%	0.043	0.039	0.040	0.000	0.363	0.441	0.161
%RSD		1.584	163.800	19.000	32.820	0.000	3.383	19.340	6.559

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:47	0.739	-128.300	0.000	8.619	10.300	2.320	105.221%	-0.021
2	17:48:06	0.632	-128.700	0.000	6.827	14.700	3.443	105.097%	0.044
3	17:48:26	0.443	-128.900	0.000	7.386	-0.360	3.287	103.661%	0.056
x		0.605	-128.600	0.000	7.611	8.213	3.016	104.660%	0.026
σ		0.150	0.333	0.000	0.917	7.744	0.608	0.867%	0.041
%RSD		24.820	0.259	0.000	12.050	94.290	20.170	0.829	158.400

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:47	0.018	0.010	0.044	7.267	5.532	-0.002	0.026	-0.050
2	17:48:06	0.004	-0.006	0.049	5.931	5.347	0.006	0.003	-0.017
3	17:48:26	0.020	0.008	0.050	5.728	3.583	-0.001	-0.005	-0.027
x		0.014	0.004	0.048	6.309	4.820	0.001	0.008	-0.031
σ		0.009	0.009	0.003	0.836	1.076	0.004	0.016	0.017
%RSD		64.620	212.400	6.632	13.250	22.320	447.600	208.300	54.830

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:47	-0.010	0.202	0.247	-0.018	0.443	0.028	0.000	0.012
2	17:48:06	-0.004	0.200	0.215	-0.022	0.291	-0.191	0.000	0.015
3	17:48:26	-0.013	-0.042	-0.105	0.019	0.568	0.139	0.000	0.014
x		-0.009	0.120	0.119	-0.007	0.434	-0.008	0.000	0.014
σ		0.005	0.140	0.195	0.022	0.138	0.168	0.000	0.002
%RSD		52.870	116.900	163.300	328.900	31.860	2120.000	0.000	10.820

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:47	104.051%	0.491	0.445	106.397%	-0.008	-0.008	-0.015	-0.008
2	17:48:06	105.751%	0.457	0.434	106.685%	-0.008	0.001	0.046	0.026
3	17:48:26	106.085%	0.415	0.414	107.393%	-0.013	-0.000	0.032	0.018
x		105.296%	0.455	0.431	106.825%	-0.010	-0.002	0.021	0.012
σ		1.091%	0.038	0.015	0.512%	0.003	0.005	0.032	0.018
%RSD		1.036	8.374	3.564	0.479	33.390	223.500	150.700	150.600

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:47	106.500%	-0.138	-0.038	-0.068	-0.002	-0.002	104.936%	104.674%
2	17:48:06	107.356%	-0.121	-0.034	-0.064	0.007	0.005	107.220%	107.462%
3	17:48:26	107.859%	-0.086	-0.045	-0.062	0.014	0.012	108.916%	107.830%
x		107.238%	-0.115	-0.039	-0.065	0.006	0.005	107.024%	106.655%
σ		0.687%	0.027	0.006	0.003	0.008	0.007	1.997%	1.726%
%RSD		0.641	23.040	14.780	4.768	124.100	143.700	1.866	1.618

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:47:47	0.014	0.008	0.011	0.003	0.005	103.717%
2	17:48:06	0.010	0.010	0.008	0.004	0.005	106.674%
3	17:48:26	0.010	0.012	0.021	0.003	0.009	106.047%
x		0.011	0.010	0.013	0.003	0.006	105.480%
σ		0.002	0.002	0.007	0.001	0.002	1.558%
%RSD		21.750	21.010	54.420	22.660	36.410	1.477

MB 180-140485/1-A 5/7/2015 5:51:17 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:37	97.274%	-0.026	0.219	0.135	0.000	5.000	1.286	1.359
2	17:51:56	97.993%	0.042	0.288	0.133	0.000	4.456	1.085	1.191
3	17:52:15	97.319%	-0.012	0.004	0.151	0.000	4.287	0.831	0.794
x		97.529%	0.001	0.170	0.140	0.000	4.581	1.067	1.115
σ		0.402%	0.036	0.148	0.010	0.000	0.373	0.228	0.290
%RSD		0.412	3240.000	87.010	6.946	0.000	8.142	21.360	26.000
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:37	2.371	-129.900	0.000	4.871	-4.023	-2.635	108.999%	-0.043
2	17:51:56	2.342	-129.700	0.000	2.992	-0.833	-2.291	108.416%	0.051
3	17:52:15	2.619	-130.000	0.000	4.516	-1.724	-4.085	106.536%	0.021
x		2.444	-129.800	0.000	4.127	-2.193	-3.004	107.984%	0.010
σ		0.153	0.160	0.000	0.998	1.646	0.952	1.287%	0.048
%RSD		6.238	0.123	0.000	24.190	75.050	31.700	1.192	505.800
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:37	0.006	-0.001	0.008	5.193	3.758	-0.002	-0.026	-0.050
2	17:51:56	0.001	0.007	-0.006	4.273	4.648	-0.004	-0.026	-0.038
3	17:52:15	0.003	-0.027	0.003	3.508	3.026	-0.004	0.003	-0.066
x		0.003	-0.007	0.002	4.325	3.811	-0.003	-0.017	-0.051
σ		0.003	0.018	0.007	0.843	0.813	0.001	0.017	0.014
%RSD		84.280	265.900	451.800	19.500	21.320	45.020	100.200	27.480
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:37	-0.067	-0.280	-0.230	-0.011	0.246	0.009	0.000	0.006
2	17:51:56	0.002	-0.174	-0.444	0.018	0.450	-0.033	0.000	0.007
3	17:52:15	-0.091	-0.400	-0.168	-0.013	0.225	-0.028	0.000	0.004
x		-0.052	-0.285	-0.281	-0.002	0.307	-0.017	0.000	0.005
σ		0.048	0.113	0.145	0.017	0.124	0.023	0.000	0.001
%RSD		93.390	39.740	51.650	753.000	40.420	132.800	0.000	26.310
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:37	102.229%	0.312	0.262	103.882%	-0.018	-0.009	0.055	0.028
2	17:51:56	103.735%	0.277	0.267	104.332%	-0.016	-0.009	-0.029	-0.014
3	17:52:15	104.596%	0.278	0.248	105.547%	-0.018	-0.013	0.026	0.014
x		103.520%	0.289	0.259	104.587%	-0.017	-0.010	0.017	0.009
σ		1.198%	0.020	0.010	0.861%	0.001	0.002	0.043	0.021
%RSD		1.157	6.821	3.852	0.823	6.422	23.650	248.000	230.200
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:37	101.663%	-0.120	-0.046	-0.039	0.004	-0.002	100.360%	98.518%
2	17:51:56	102.635%	-0.075	-0.050	-0.051	0.000	-0.000	101.289%	99.830%
3	17:52:15	103.427%	-0.097	-0.045	-0.048	-0.033	-0.013	103.511%	102.594%
x		102.575%	-0.098	-0.047	-0.046	-0.009	-0.005	101.720%	100.314%
σ		0.883%	0.023	0.003	0.006	0.020	0.007	1.619%	2.080%
%RSD		0.861	23.110	5.600	13.620	212.800	136.300	1.592	2.074
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:51:37	0.016	0.004	-0.016	-0.013	-0.012	95.890%		
2	17:51:56	0.008	0.004	-0.010	-0.010	-0.016	96.810%		
3	17:52:15	0.012	0.008	-0.009	-0.005	-0.013	93.934%		
x		0.012	0.005	-0.012	-0.009	-0.014	95.545%		
σ		0.004	0.003	0.003	0.004	0.002	1.469%		
%RSD		30.690	50.970	29.450	44.240	15.900	1.537		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:55:24	10.657%	34.950	700.900	711.500	0.000	23260.000	20850.000	20610.000
2	17:55:43	5.518%	39.890	740.200	737.000	0.000	24040.000	23350.000	21740.000
3	17:56:02	5.520%	39.190	717.800	762.600	0.000	23160.000	21710.000	21370.000
x		7.232%	38.010	719.600	737.000	0.000	23490.000	21970.000	21240.000
σ		2.966%	2.677	19.750	25.570	0.000	484.100	1271.000	576.900
%RSD		41.018	7.042	2.745	3.469	0.000	2.061	5.784	2.716

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:55:24	792.400	4269.000	0.000	82990.000	69750.000	55850.000	86.576%	924.700
2	17:55:43	820.900	28110.000	0.000	150400.000	83880.000	65290.000	89.799%	929.900
3	17:56:02	881.000	58770.000	0.000	159000.000	86740.000	68500.000	94.027%	919.000
x		831.400	30380.000	0.000	130800.000	80130.000	63220.000	90.134%	924.500
σ		45.240	27320.000	0.000	41610.000	9095.000	6577.000	3.737%	5.424
%RSD		5.441	89.920	0.000	31.820	11.350	10.400	4.146	0.587

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:55:24	503.000	193.400	481.800	985.400	1042.000	509.900	496.600	245.700
2	17:55:43	504.700	195.100	488.600	983.800	1049.000	495.500	490.600	246.300
3	17:56:02	489.300	189.400	477.700	964.200	1028.000	487.100	481.800	243.600
x		499.000	192.600	482.700	977.800	1040.000	497.500	489.700	245.200
σ		8.457	2.923	5.469	11.780	10.820	11.520	7.412	1.381
%RSD		1.695	1.518	1.133	1.205	1.041	2.316	1.514	0.563

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:55:24	247.300	478.100	479.300	37.480	8.795	10.130	0.000	970.600
2	17:55:43	244.000	485.000	487.400	37.460	9.942	10.370	0.000	977.800
3	17:56:02	241.600	478.200	484.900	38.860	9.997	9.745	0.000	970.500
x		244.300	480.500	483.800	37.940	9.578	10.080	0.000	973.000
σ		2.871	3.974	4.139	0.798	0.678	0.314	0.000	4.156
%RSD		1.175	0.827	0.856	2.104	7.084	3.117	0.000	0.427

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:55:24	83.419%	990.200	1035.000	81.244%	47.150	47.900	48.110	41.410
2	17:55:43	86.469%	1001.000	1042.000	84.393%	47.660	47.670	47.680	41.900
3	17:56:02	89.493%	1003.000	1047.000	85.781%	47.310	48.210	47.940	41.490
x		86.460%	997.900	1041.000	83.806%	47.370	47.930	47.910	41.600
σ		3.037%	6.793	6.433	2.325%	0.263	0.270	0.217	0.260
%RSD		3.512	0.681	0.618	2.774	0.554	0.563	0.453	0.624

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:55:24	79.265%	2011.000	493.100	491.700	1898.000	1942.000	83.400%	82.433%
2	17:55:43	82.462%	2004.000	490.000	488.100	1884.000	1933.000	83.902%	83.248%
3	17:56:02	83.473%	2007.000	492.500	491.000	1966.000	1953.000	85.499%	83.815%
x		81.733%	2007.000	491.900	490.300	1916.000	1942.000	84.267%	83.165%
σ		2.196%	3.085	1.636	1.901	43.910	10.120	1.096%	0.695%
%RSD		2.687	0.154	0.333	0.388	2.291	0.521	1.301	0.835

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:55:24	1083.000	1144.000	366.500	85.750	131.900	3.171%
2	17:55:43	1.#IO	1.#IO	1.#IO	1.#IO	1.#IO	0.000%
3	17:56:02	1.#IO	1.#IO	1.#IO	1.#IO	1.#IO	0.000%
x		1.#IO	1.#IO	1.#IO	1.#IO	1.#IO	1.057%
σ		n/a	n/a	n/a	n/a	n/a	1.831%
%RSD		1.#QO	1.#QO	1.#QO	1.#QO	1.#QO	173.205

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:40	107.321%	0.019	214.500	224.200	0.000	657500.000	80940.000	82050.000
2	18:03:00	105.434%	0.059	217.800	223.100	0.000	651000.000	79990.000	80610.000
3	18:03:19	103.469%	0.074	222.100	226.300	0.000	658300.000	81100.000	82710.000
x		105.408%	0.051	218.200	224.500	0.000	655600.000	80680.000	81790.000
σ		1.926%	0.029	3.793	1.626	0.000	4030.000	601.100	1072.000
%RSD		1.827	56.200	1.739	0.724	0.000	0.615	0.745	1.311

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:40	6.553	-50.980	0.000	27890.000	34850.000	35910.000	111.870%	0.159
2	18:03:00	6.155	-53.950	0.000	28050.000	35250.000	36200.000	107.953%	0.167
3	18:03:19	6.234	-50.770	0.000	28180.000	35370.000	36300.000	110.688%	0.192
x		6.314	-51.900	0.000	28040.000	35160.000	36140.000	110.170%	0.173
σ		0.210	1.779	0.000	146.000	272.600	200.900	2.009%	0.017
%RSD		3.333	3.427	0.000	0.521	0.775	0.556	1.824	9.956

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:40	0.085	0.100	12.660	16.260	71.130	0.078	0.358	4.359
2	18:03:00	-0.127	0.103	12.960	16.920	81.210	0.075	0.462	4.508
3	18:03:19	0.013	0.082	12.760	16.560	73.350	0.084	0.370	4.420
x		-0.010	0.095	12.790	16.580	75.230	0.079	0.397	4.429
σ		0.108	0.012	0.151	0.331	5.297	0.005	0.057	0.075
%RSD		1084.000	12.150	1.181	1.993	7.041	5.868	14.290	1.692

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:40	0.364	2.914	2.844	1.096	0.742	5.012	0.000	511.500
2	18:03:00	0.248	3.269	2.914	1.297	1.075	5.156	0.000	506.400
3	18:03:19	0.310	3.287	2.880	1.191	0.944	5.085	0.000	508.300
x		0.307	3.157	2.879	1.195	0.920	5.084	0.000	508.700
σ		0.058	0.210	0.035	0.101	0.168	0.072	0.000	2.593
%RSD		18.980	6.665	1.216	8.437	18.210	1.420	0.000	0.510

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:40	105.821%	2.814	2.611	101.119%	-0.017	-0.008	0.050	0.018
2	18:03:00	107.671%	2.579	2.592	102.377%	-0.011	-0.013	0.022	0.031
3	18:03:19	107.858%	2.411	2.638	102.826%	-0.012	-0.011	-0.001	0.002
x		107.117%	2.601	2.614	102.107%	-0.013	-0.011	0.024	0.017
σ		1.126%	0.202	0.023	0.885%	0.003	0.002	0.026	0.014
%RSD		1.051	7.770	0.886	0.867	21.860	23.610	108.800	83.720

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:40	97.136%	0.285	0.227	0.172	2.410	2.480	94.162%	93.536%
2	18:03:00	98.404%	0.256	0.225	0.228	2.389	2.484	95.999%	95.247%
3	18:03:19	98.788%	0.193	0.221	0.208	2.375	2.357	97.766%	96.938%
x		98.110%	0.245	0.225	0.203	2.391	2.440	95.976%	95.240%
σ		0.865%	0.047	0.003	0.028	0.017	0.072	1.802%	1.701%
%RSD		0.881	19.300	1.299	14.030	0.725	2.948	1.878	1.786

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:40	0.052	0.044	0.123	0.134	0.132	94.970%
2	18:03:00	0.046	0.049	0.151	0.141	0.155	92.248%
3	18:03:19	0.045	0.054	0.140	0.127	0.136	89.776%
x		0.048	0.049	0.138	0.134	0.141	92.332%
σ		0.004	0.005	0.014	0.007	0.013	2.598%
%RSD		7.790	9.912	10.370	5.300	8.896	2.814

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:06:28	118.095%	0.079	49.220	48.090	0.000	139200.000	15770.000	16220.000
2	18:06:47	113.374%	0.014	52.200	48.040	0.000	141100.000	16440.000	16550.000
3	18:07:06	116.531%	0.012	49.390	48.970	0.000	142400.000	16390.000	16500.000
x		116.000%	0.035	50.270	48.370	0.000	140900.000	16200.000	16420.000
σ		2.405%	0.038	1.674	0.525	0.000	1652.000	370.700	178.700
%RSD		2.073	110.000	3.330	1.086	0.000	1.172	2.288	1.088
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:06:28	2.609	-111.300	0.000	5618.000	7081.000	6641.000	116.352%	0.053
2	18:06:47	2.109	-110.700	0.000	5645.000	7457.000	6711.000	117.310%	0.023
3	18:07:06	1.978	-110.400	0.000	5738.000	7451.000	6810.000	113.583%	0.095
x		2.232	-110.800	0.000	5667.000	7330.000	6721.000	115.748%	0.057
σ		0.333	0.446	0.000	62.950	215.500	84.600	1.936%	0.036
%RSD		14.920	0.403	0.000	1.111	2.941	1.259	1.672	63.930
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:06:28	-0.037	0.064	2.690	19.480	20.970	0.013	0.081	0.864
2	18:06:47	0.016	0.058	2.701	18.350	21.980	0.023	0.067	0.821
3	18:07:06	0.138	0.082	2.759	18.340	19.970	0.024	0.084	0.976
x		0.039	0.068	2.717	18.720	20.970	0.020	0.077	0.887
σ		0.090	0.012	0.037	0.659	1.006	0.006	0.009	0.080
%RSD		230.200	18.070	1.351	3.519	4.795	32.140	11.350	8.992
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:06:28	0.096	0.015	0.239	0.332	0.796	1.094	0.000	95.790
2	18:06:47	0.043	0.048	0.046	0.324	0.622	1.124	0.000	96.480
3	18:07:06	0.042	0.131	0.113	0.200	0.879	0.905	0.000	96.970
x		0.060	0.065	0.133	0.285	0.766	1.041	0.000	96.410
σ		0.031	0.060	0.098	0.074	0.131	0.119	0.000	0.593
%RSD		51.220	92.700	73.750	25.890	17.150	11.420	0.000	0.615
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:06:28	113.934%	0.716	0.733	110.570%	-0.010	-0.007	0.022	0.022
2	18:06:47	115.225%	0.747	0.712	111.987%	-0.010	-0.009	0.040	0.034
3	18:07:06	116.375%	0.706	0.638	113.101%	-0.012	-0.011	0.032	0.028
x		115.178%	0.723	0.695	111.886%	-0.011	-0.009	0.031	0.028
σ		1.221%	0.021	0.050	1.269%	0.001	0.002	0.009	0.006
%RSD		1.060	2.941	7.198	1.134	9.728	23.600	28.600	21.410
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:06:28	107.108%	0.023	0.020	0.019	0.534	0.544	101.145%	99.288%
2	18:06:47	108.419%	0.020	-0.014	-0.012	0.488	0.470	104.345%	102.444%
3	18:07:06	109.165%	0.046	-0.009	-0.010	0.498	0.540	106.191%	105.562%
x		108.231%	0.030	-0.001	-0.001	0.507	0.518	103.894%	102.431%
σ		1.042%	0.014	0.018	0.018	0.024	0.042	2.553%	3.137%
%RSD		0.962	48.290	1735.000	1939.000	4.820	8.088	2.458	3.062
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:06:28	0.030	0.031	0.037	0.032	0.039	95.068%		
2	18:06:47	0.024	0.026	0.042	0.042	0.040	95.980%		
3	18:07:06	0.029	0.027	0.037	0.025	0.033	95.320%		
x		0.028	0.028	0.039	0.033	0.037	95.456%		
σ		0.003	0.003	0.003	0.008	0.004	0.471%		
%RSD		12.110	10.150	7.745	24.730	9.859	0.493		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:10:16	109.279%	4.551	314.100	325.500	0.000	654400.000	86200.000	88330.000
2	18:10:35	109.572%	4.962	324.000	310.900	0.000	667000.000	87090.000	86850.000
3	18:10:54	109.447%	4.728	323.000	320.700	0.000	664100.000	86840.000	88270.000
x		109.433%	4.747	320.400	319.000	0.000	661900.000	86710.000	87820.000
σ		0.147%	0.206	5.435	7.454	0.000	6576.000	455.000	833.200
%RSD		0.134	4.349	1.696	2.336	0.000	0.994	0.525	0.949
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:10:16	198.000	1009.000	0.000	33080.000	40300.000	41300.000	114.003%	100.400
2	18:10:35	197.000	993.700	0.000	32820.000	40210.000	41300.000	111.758%	99.190
3	18:10:54	198.900	1019.000	0.000	33210.000	40660.000	41800.000	110.041%	98.170
x		198.000	1007.000	0.000	33030.000	40390.000	41470.000	111.934%	99.240
σ		0.943	12.960	0.000	202.100	239.800	287.200	1.987%	1.102
%RSD		0.476	1.287	0.000	0.612	0.594	0.693	1.775	1.111
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:10:16	51.060	19.890	58.640	112.600	185.300	48.190	49.710	28.090
2	18:10:35	50.690	19.900	59.510	113.000	187.400	48.680	50.830	28.360
3	18:10:54	50.910	20.190	60.320	114.600	190.300	49.380	51.130	28.960
x		50.880	19.990	59.490	113.400	187.700	48.750	50.560	28.470
σ		0.187	0.172	0.841	1.054	2.485	0.599	0.750	0.442
%RSD		0.368	0.862	1.414	0.929	1.324	1.229	1.484	1.552
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:10:16	24.180	45.700	46.750	5.246	1.597	6.560	0.000	608.600
2	18:10:35	24.720	46.340	46.440	5.008	2.200	6.333	0.000	612.600
3	18:10:54	24.500	47.850	46.980	5.204	1.725	6.091	0.000	613.200
x		24.470	46.630	46.720	5.153	1.840	6.328	0.000	611.500
σ		0.273	1.107	0.274	0.127	0.318	0.234	0.000	2.518
%RSD		1.115	2.375	0.586	2.467	17.260	3.704	0.000	0.412
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:10:16	102.947%	99.110	99.620	97.542%	4.439	4.482	4.775	4.185
2	18:10:35	103.324%	100.600	101.300	97.727%	4.506	4.646	4.896	4.025
3	18:10:54	105.225%	101.900	102.300	99.125%	4.426	4.523	4.547	4.125
x		103.832%	100.500	101.100	98.131%	4.457	4.550	4.739	4.112
σ		1.221%	1.373	1.357	0.866%	0.043	0.086	0.177	0.081
%RSD		1.176	1.366	1.343	0.882	0.965	1.883	3.736	1.964
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:10:16	93.343%	185.800	47.090	46.670	186.900	187.200	88.861%	86.585%
2	18:10:35	94.205%	189.000	48.020	48.200	190.100	187.600	90.095%	88.508%
3	18:10:54	95.205%	188.200	47.570	47.910	187.900	187.000	92.101%	89.967%
x		94.251%	187.600	47.560	47.600	188.300	187.300	90.352%	88.353%
σ		0.932%	1.668	0.465	0.811	1.613	0.288	1.635%	1.696%
%RSD		0.989	0.889	0.977	1.704	0.857	0.154	1.810	1.920
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:10:16	5.035	5.220	2.094	2.210	2.148	77.378%		
2	18:10:35	5.311	5.465	2.170	2.278	2.218	76.021%		
3	18:10:54	5.349	5.666	2.269	2.348	2.328	74.260%		
x		5.232	5.450	2.178	2.279	2.231	75.886%		
σ		0.171	0.223	0.088	0.069	0.091	1.564%		
%RSD		3.274	4.098	4.039	3.012	4.069	2.060		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:04	6.271%	3.097	225.700	273.300	0.000	362900.000	43290.000	41770.000
2	18:14:23	11.801%	2.676	228.800	230.100	0.000	326400.000	42620.000	40570.000
3	18:14:47	21.439%	4.452	284.600	248.300	0.000	394100.000	49010.000	46480.000
x		13.170%	3.408	246.300	250.600	0.000	361100.000	44970.000	42940.000
σ		7.676%	0.928	33.160	21.660	0.000	33870.000	3514.000	3121.000
%RSD		58.281	27.230	13.460	8.642	0.000	9.379	7.814	7.268

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:04	83.630	1418.000	0.000	102200.000	69740.000	54490.000	109.221%	98.170
2	18:14:23	88.230	506.600	0.000	65590.000	63000.000	48430.000	107.592%	102.700
3	18:14:47	101.100	405.800	0.000	10660.000	12720.000	28270.000	99.982%	109.600
x		90.990	777.000	0.000	59480.000	48490.000	43730.000	105.598%	103.500
σ		9.054	557.800	0.000	46070.000	31160.000	13730.000	4.932%	5.764
%RSD		9.951	71.790	0.000	77.460	64.260	31.390	4.670	5.570

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:04	50.460	19.920	58.980	113.400	187.600	48.270	49.610	28.460
2	18:14:23	51.760	20.480	60.670	116.300	191.300	49.090	50.420	28.620
3	18:14:47	55.300	21.770	63.860	124.000	193.600	51.230	54.310	30.200
x		52.510	20.720	61.170	117.900	190.800	49.530	51.450	29.100
σ		2.504	0.951	2.478	5.515	3.024	1.530	2.512	0.963
%RSD		4.768	4.590	4.051	4.678	1.585	3.089	4.883	3.308

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:04	24.380	46.540	46.290	5.292	2.159	5.742	0.000	600.000
2	18:14:23	24.540	47.500	47.450	5.511	2.043	6.337	0.000	601.600
3	18:14:47	25.330	48.380	47.990	5.103	2.046	6.026	0.000	600.800
x		24.750	47.470	47.240	5.302	2.083	6.035	0.000	600.800
σ		0.509	0.916	0.867	0.204	0.066	0.297	0.000	0.786
%RSD		2.056	1.930	1.834	3.849	3.152	4.929	0.000	0.131

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:04	100.140%	99.760	100.800	93.359%	4.464	4.631	4.655	4.073
2	18:14:23	101.544%	101.100	102.700	94.294%	4.568	4.542	4.771	4.305
3	18:14:47	103.299%	102.200	102.800	96.325%	4.472	4.489	4.549	4.107
x		101.661%	101.000	102.100	94.659%	4.501	4.554	4.658	4.162
σ		1.583%	1.232	1.115	1.516%	0.058	0.072	0.111	0.125
%RSD		1.557	1.220	1.092	1.602	1.289	1.573	2.379	3.007

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:04	89.263%	188.100	47.930	48.250	192.100	188.300	84.557%	81.691%
2	18:14:23	91.159%	189.200	48.260	48.560	192.100	191.200	87.037%	85.608%
3	18:14:47	93.062%	189.600	48.340	48.510	191.900	190.100	90.380%	88.225%
x		91.161%	189.000	48.170	48.440	192.000	189.900	87.324%	85.175%
σ		1.899%	0.752	0.217	0.168	0.081	1.467	2.922%	3.288%
%RSD		2.083	0.398	0.450	0.346	0.042	0.773	3.346	3.861

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:14:04	753.700	791.400	141.100	37.580	53.340	0.414%
2	18:14:23	92.690	100.700	25.620	4.858	8.814	3.567%
3	18:14:47	31.610	32.920	13.380	14.100	11.300	11.586%
x		292.700	308.300	60.040	18.850	24.490	5.189%
σ		400.400	419.700	70.490	16.870	25.020	5.760%
%RSD		136.800	136.100	117.400	89.510	102.200	110.999

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:59	109.747%	5.505	331.300	327.900	0.000	641800.000	84770.000	84820.000
2	18:18:18	112.026%	5.230	309.600	303.800	0.000	627500.000	82530.000	83060.000
3	18:18:37	109.857%	5.503	316.700	315.500	0.000	643600.000	85080.000	86040.000
x		110.543%	5.413	319.200	315.700	0.000	637600.000	84130.000	84640.000
σ		1.286%	0.158	11.070	12.030	0.000	8779.000	1392.000	1499.000
%RSD		1.163	2.921	3.468	3.812	0.000	1.377	1.654	1.771
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:59	218.300	1102.000	0.000	32870.000	40460.000	40450.000	111.801%	108.000
2	18:18:18	214.900	1076.000	0.000	32960.000	40720.000	41030.000	109.071%	112.900
3	18:18:37	218.900	1084.000	0.000	33240.000	41150.000	41420.000	110.923%	110.900
x		217.400	1088.000	0.000	33030.000	40770.000	40970.000	110.598%	110.600
σ		2.147	13.470	0.000	194.400	350.900	489.400	1.394%	2.466
%RSD		0.988	1.239	0.000	0.589	0.861	1.195	1.260	2.230
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:59	52.380	20.640	96.530	127.700	200.800	50.970	52.970	33.610
2	18:18:18	53.770	21.300	98.540	131.300	207.400	51.690	53.360	34.470
3	18:18:37	53.950	21.450	97.950	128.400	199.900	50.730	53.150	33.870
x		53.370	21.130	97.670	129.100	202.700	51.130	53.160	33.980
σ		0.858	0.435	1.037	1.895	4.072	0.501	0.197	0.441
%RSD		1.607	2.057	1.061	1.468	2.009	0.980	0.371	1.297
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:59	30.240	80.110	79.440	4.870	2.051	5.106	0.000	582.100
2	18:18:18	29.910	80.810	82.230	5.438	1.730	5.730	0.000	584.800
3	18:18:37	29.930	80.450	81.810	5.246	1.992	5.936	0.000	583.500
x		30.030	80.460	81.160	5.185	1.924	5.591	0.000	583.500
σ		0.186	0.349	1.504	0.289	0.171	0.432	0.000	1.373
%RSD		0.619	0.434	1.853	5.566	8.897	7.727	0.000	0.235
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:59	105.676%	108.900	111.400	99.218%	4.131	4.293	4.449	4.462
2	18:18:18	106.351%	110.200	111.500	100.196%	4.154	4.132	4.928	4.374
3	18:18:37	108.341%	110.900	112.300	101.036%	4.170	4.198	4.597	4.087
x		106.789%	110.000	111.700	100.150%	4.151	4.208	4.658	4.308
σ		1.385%	1.012	0.481	0.910%	0.019	0.081	0.246	0.196
%RSD		1.297	0.920	0.431	0.908	0.468	1.929	5.273	4.553
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:59	95.108%	206.100	52.030	52.420	200.000	199.100	92.387%	90.645%
2	18:18:18	97.643%	208.700	52.350	52.450	199.400	199.300	94.113%	93.207%
3	18:18:37	98.946%	208.800	52.500	52.130	202.200	200.200	97.223%	95.794%
x		97.232%	207.900	52.290	52.330	200.500	199.600	94.574%	93.215%
σ		1.952%	1.535	0.241	0.173	1.513	0.586	2.451%	2.574%
%RSD		2.007	0.738	0.462	0.331	0.754	0.294	2.591	2.761
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:17:59	5.408	5.746	3.172	3.075	3.106	83.722%		
2	18:18:18	5.588	6.068	3.240	3.176	3.209	82.695%		
3	18:18:37	5.840	6.151	3.224	3.164	3.210	83.014%		
x		5.612	5.988	3.212	3.138	3.175	83.144%		
σ		0.217	0.214	0.036	0.055	0.060	0.526%		
%RSD		3.863	3.573	1.106	1.759	1.889	0.632		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:48	115.511%	-0.034	229.500	232.800	0.000	635900.000	80900.000	80230.000
2	18:22:07	115.004%	-0.034	214.900	227.000	0.000	633600.000	79270.000	79150.000
3	18:22:26	114.523%	0.025	221.800	229.000	0.000	623600.000	77560.000	78810.000
x		115.012%	-0.015	222.000	229.600	0.000	631000.000	79240.000	79400.000
σ		0.494%	0.034	7.303	2.965	0.000	6533.000	1670.000	741.900
%RSD		0.430	232.200	3.289	1.292	0.000	1.035	2.108	0.934

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:48	3.612	132.400	0.000	27290.000	28150.000	28510.000	115.286%	0.153
2	18:22:07	3.181	133.700	0.000	27140.000	28050.000	28410.000	117.303%	0.130
3	18:22:26	3.314	127.900	0.000	27150.000	28820.000	28750.000	116.597%	0.111
x		3.369	131.300	0.000	27200.000	28340.000	28560.000	116.395%	0.131
σ		0.221	3.056	0.000	82.620	422.400	176.800	1.023%	0.021
%RSD		6.549	2.327	0.000	0.304	1.490	0.619	0.879	15.900

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:48	0.430	0.100	7.036	23.670	69.820	0.058	0.419	4.142
2	18:22:07	0.582	0.112	7.041	22.800	64.070	0.055	0.414	4.035
3	18:22:26	0.385	0.108	7.162	21.730	66.760	0.054	0.374	4.081
x		0.465	0.106	7.080	22.730	66.880	0.056	0.402	4.086
σ		0.103	0.006	0.071	0.972	2.881	0.002	0.025	0.054
%RSD		22.150	5.730	1.006	4.274	4.307	4.007	6.225	1.316

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:48	0.252	0.118	0.239	1.316	0.870	4.580	0.000	443.700
2	18:22:07	0.288	0.133	0.094	1.267	1.049	3.881	0.000	439.500
3	18:22:26	0.247	0.037	0.102	1.139	0.943	4.051	0.000	439.000
x		0.262	0.096	0.145	1.241	0.954	4.170	0.000	440.700
σ		0.022	0.052	0.081	0.091	0.090	0.365	0.000	2.605
%RSD		8.445	53.950	56.120	7.356	9.399	8.743	0.000	0.591

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:48	109.049%	3.045	3.044	103.287%	-0.008	-0.009	0.058	0.048
2	18:22:07	111.857%	2.719	2.881	106.378%	-0.010	-0.004	0.034	0.019
3	18:22:26	112.272%	2.620	2.812	106.368%	-0.014	-0.004	0.059	0.038
x		111.059%	2.794	2.913	105.344%	-0.011	-0.005	0.050	0.035
σ		1.754%	0.223	0.119	1.782%	0.003	0.003	0.014	0.015
%RSD		1.579	7.966	4.083	1.691	29.800	54.700	27.700	41.530

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:48	99.484%	1.007	0.072	0.076	6.307	6.282	95.431%	93.764%
2	18:22:07	102.641%	0.808	0.083	0.084	6.222	5.983	98.662%	96.978%
3	18:22:26	102.873%	0.776	0.092	0.071	6.418	6.205	100.778%	98.203%
x		101.666%	0.864	0.082	0.077	6.316	6.157	98.290%	96.315%
σ		1.893%	0.125	0.010	0.006	0.099	0.156	2.693%	2.293%
%RSD		1.862	14.450	12.440	8.214	1.560	2.525	2.740	2.380

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:21:48	0.037	0.033	-0.005	0.007	0.003	84.454%
2	18:22:07	0.044	0.028	0.008	0.023	0.011	85.912%
3	18:22:26	0.021	0.033	0.001	0.017	0.003	86.356%
x		0.034	0.031	0.001	0.016	0.006	85.574%
σ		0.012	0.003	0.006	0.008	0.005	0.995%
%RSD		34.300	9.786	473.400	54.200	87.360	1.163

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:37	117.967%	0.010	198.500	196.300	0.000	600300.000	75040.000	76090.000
2	18:25:57	119.154%	0.043	195.900	200.300	0.000	602300.000	75140.000	76300.000
3	18:26:16	117.828%	0.067	201.000	205.000	0.000	603500.000	74950.000	75450.000
x		118.316%	0.040	198.400	200.500	0.000	602000.000	75040.000	75950.000
σ		0.728%	0.029	2.534	4.372	0.000	1588.000	95.610	444.300
%RSD		0.616	71.590	1.277	2.180	0.000	0.264	0.127	0.585
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:37	2.411	-4.779	0.000	23660.000	42370.000	43310.000	122.474%	0.075
2	18:25:57	2.248	-3.262	0.000	24110.000	43030.000	44050.000	119.342%	0.165
3	18:26:16	2.443	-5.397	0.000	24100.000	42610.000	43720.000	119.160%	0.165
x		2.368	-4.479	0.000	23960.000	42670.000	43690.000	120.325%	0.135
σ		0.105	1.099	0.000	260.400	330.400	370.800	1.863%	0.052
%RSD		4.412	24.530	0.000	1.087	0.774	0.849	1.548	38.220
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:37	-0.107	0.088	18.700	21.840	108.600	0.312	1.046	3.860
2	18:25:57	-0.132	0.109	19.150	22.470	105.700	0.339	1.060	4.103
3	18:26:16	-0.124	0.084	19.230	21.430	106.500	0.279	0.924	4.172
x		-0.121	0.094	19.030	21.910	106.900	0.310	1.010	4.045
σ		0.013	0.013	0.286	0.521	1.530	0.030	0.075	0.164
%RSD		10.520	13.830	1.506	2.377	1.431	9.624	7.426	4.055
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:37	0.299	0.332	0.272	1.029	1.220	4.418	0.000	538.400
2	18:25:57	0.303	0.457	0.232	1.059	1.051	3.998	0.000	542.700
3	18:26:16	0.319	0.455	0.431	1.260	1.045	4.578	0.000	542.500
x		0.307	0.414	0.312	1.116	1.106	4.331	0.000	541.200
σ		0.011	0.072	0.105	0.126	0.100	0.300	0.000	2.411
%RSD		3.427	17.310	33.800	11.250	9.000	6.921	0.000	0.445
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:37	109.068%	2.062	2.016	104.079%	-0.012	-0.008	0.021	0.023
2	18:25:57	110.370%	1.955	2.030	105.356%	-0.018	-0.000	0.104	0.072
3	18:26:16	110.967%	2.047	2.017	105.626%	-0.007	-0.007	0.073	0.054
x		110.135%	2.021	2.021	105.020%	-0.012	-0.005	0.066	0.050
σ		0.971%	0.058	0.008	0.826%	0.006	0.005	0.042	0.025
%RSD		0.882	2.869	0.392	0.787	44.430	86.840	63.410	50.650
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:25:37	98.942%	0.329	0.055	0.043	4.486	4.284	93.958%	92.667%
2	18:25:57	99.733%	0.270	0.069	0.051	4.597	4.473	95.815%	93.910%
3	18:26:16	101.702%	0.256	0.059	0.038	4.197	4.305	97.315%	96.082%
x		100.126%	0.285	0.061	0.044	4.426	4.354	95.696%	94.220%
σ		1.421%	0.039	0.007	0.006	0.207	0.103	1.682%	1.728%
%RSD		1.420	13.720	11.240	14.530	4.670	2.375	1.757	1.834
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:25:37	0.019	0.017	0.014	-0.002	0.007	86.238%		
2	18:25:57	0.023	0.014	-0.000	-0.000	0.000	83.522%		
3	18:26:16	0.019	0.023	0.014	0.004	0.015	81.658%		
x		0.021	0.018	0.009	0.001	0.007	83.806%		
σ		0.002	0.005	0.008	0.003	0.007	2.303%		
%RSD		11.820	27.520	90.600	458.200	101.200	2.748		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:32:56	13.163%	0.110	27.680	21.670	0.000	45.450	0.940	1.016
2	18:33:15	13.029%	-0.081	23.530	21.210	0.000	34.520	0.505	1.450
3	18:33:34	35.245%	-0.007	29.590	27.200	0.000	53.390	1.498	1.933
x		20.479%	0.007	26.930	23.360	0.000	44.450	0.981	1.466
σ		12.788%	0.096	3.100	3.334	0.000	9.476	0.498	0.459
%RSD		62.444	1331.000	11.510	14.270	0.000	21.320	50.750	31.290

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:32:56	2.606	-70.720	0.000	109.600	320.200	25.810	93.422%	0.349
2	18:33:15	2.677	-105.400	0.000	2048.000	1305.000	127.300	90.833%	0.385
3	18:33:34	5.985	-86.790	0.000	-23.680	-0.420	66.450	64.946%	0.280
x		3.756	-87.640	0.000	711.300	541.700	73.200	83.067%	0.338
σ		1.931	17.370	0.000	1159.000	680.500	51.100	15.747%	0.053
%RSD		51.410	19.820	0.000	163.000	125.600	69.810	18.957	15.720

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:32:56	0.326	0.981	0.121	11.930	4.375	0.001	0.281	0.446
2	18:33:15	0.054	1.024	0.111	11.630	4.794	-0.001	0.183	0.454
3	18:33:34	-2.439	1.252	0.187	26.470	9.015	-0.002	0.237	0.684
x		-0.687	1.085	0.139	16.680	6.062	-0.001	0.234	0.528
σ		1.524	0.146	0.041	8.482	2.567	0.002	0.049	0.135
%RSD		222.000	13.450	29.470	50.850	42.340	232.700	20.960	25.580

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:32:56	0.397	1.858	2.332	0.222	-0.125	0.295	0.000	0.119
2	18:33:15	0.423	2.099	2.130	-0.462	0.007	0.238	0.000	0.104
3	18:33:34	0.470	2.546	2.862	0.647	0.480	0.410	0.000	0.118
x		0.430	2.168	2.441	0.136	0.120	0.314	0.000	0.114
σ		0.037	0.349	0.378	0.559	0.318	0.087	0.000	0.008
%RSD		8.600	16.100	15.490	411.900	264.200	27.770	0.000	7.184

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:32:56	92.949%	0.237	0.239	92.084%	0.008	-0.008	0.049	0.014
2	18:33:15	94.540%	0.246	0.195	93.256%	0.006	0.006	0.052	0.019
3	18:33:34	95.241%	0.176	0.238	94.066%	0.010	0.006	0.051	0.037
x		94.243%	0.220	0.224	93.135%	0.008	0.001	0.050	0.023
σ		1.175%	0.038	0.025	0.997%	0.002	0.008	0.001	0.012
%RSD		1.246	17.440	11.340	1.070	24.260	593.900	2.790	51.400

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:32:56	88.602%	1.720	0.202	0.165	3.175	3.032	86.054%	85.059%
2	18:33:15	91.101%	1.562	0.162	0.210	3.059	3.004	89.696%	87.972%
3	18:33:34	91.831%	1.411	0.176	0.163	3.106	2.881	91.920%	90.862%
x		90.511%	1.564	0.180	0.179	3.113	2.973	89.223%	87.964%
σ		1.693%	0.155	0.020	0.026	0.059	0.080	2.961%	2.901%
%RSD		1.871	9.893	11.350	14.780	1.880	2.703	3.319	3.298

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:32:56	0.432	0.394	0.611	-0.041	0.167	3.289%
2	18:33:15	0.375	0.394	1.505	1.001	0.647	3.353%
3	18:33:34	0.046	0.036	0.071	0.084	0.087	42.390%
x		0.284	0.274	0.729	0.348	0.300	16.344%
σ		0.209	0.207	0.724	0.569	0.303	22.556%
%RSD		73.370	75.390	99.370	163.300	100.900	138.008

CCV 1558997 5/7/2015 6:36:33 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:33	121.762%	100.200	98.680	95.750	0.000	46420.000	46340.000	46410.000
2	18:36:53	117.238%	98.980	98.260	89.540	0.000	45930.000	46630.000	46560.000
3	18:37:13	115.274%	102.100	97.310	96.470	0.000	48570.000	48480.000	48660.000
x		118.091%	100.411%	98.084%	93.921%	0.000	93.955%	94.302%	94.423%
σ		3.327%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.817	1.561	0.715	4.057	0.000	2.989	2.464	2.657

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:33	453.900	4638.000	0.000	46050.000	45470.000	45380.000	123.214%	87.710
2	18:36:53	460.500	4566.000	0.000	47630.000	47430.000	48070.000	118.086%	94.200
3	18:37:13	483.100	4771.000	0.000	49010.000	49440.000	49480.000	116.063%	93.640
x		93.165%	93.168%	0.000	95.127%	94.902%	95.285%	119.121%	91.852%
σ		n/a	n/a	0.000	n/a	n/a	n/a	3.686%	n/a
%RSD		3.284	2.227	0.000	3.112	4.183	4.374	3.095	3.919

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:33	93.570	94.080	458.100	23520.000	22980.000	95.190	99.090	99.180
2	18:36:53	97.920	99.640	480.600	24580.000	24380.000	99.370	100.500	102.400
3	18:37:13	97.820	99.210	487.900	24670.000	24440.000	100.000	102.100	103.100
x		96.436%	97.640%	95.109%	97.018%	95.730%	98.197%	100.572%	101.562%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.578	3.166	3.268	2.644	3.462	2.676	1.484	2.056

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:33	99.730	94.640	95.590	97.600	101.800	102.100	0.000	93.920
2	18:36:53	101.200	97.610	99.630	102.100	103.600	101.100	0.000	95.040
3	18:37:13	103.500	100.600	100.400	100.200	101.800	101.000	0.000	95.560
x		101.482%	97.599%	98.554%	99.979%	102.423%	101.397%	0.000	94.840%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.900	3.031	2.636	2.268	1.036	0.602	0.000	0.887

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:33	102.108%	87.980	89.060	99.334%	94.980	96.030	95.340	94.920
2	18:36:53	103.430%	91.690	91.720	100.036%	97.240	97.340	98.200	97.250
3	18:37:13	104.430%	94.160	94.220	100.749%	96.730	97.460	96.390	96.550
x		103.322%	91.276%	91.667%	100.040%	96.316%	96.945%	96.643%	96.242%
σ		1.165%	n/a	n/a	0.708%	n/a	n/a	n/a	n/a
%RSD		1.127	3.409	2.818	0.707	1.230	0.815	1.494	1.240

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:33	96.356%	91.140	92.670	92.360	93.700	93.570	91.255%	89.131%
2	18:36:53	97.006%	94.530	95.250	95.140	95.600	95.590	94.944%	92.349%
3	18:37:13	98.148%	93.940	95.710	96.490	95.860	95.230	96.580%	94.988%
x		97.170%	93.202%	94.543%	94.662%	95.052%	94.793%	94.260%	92.156%
σ		0.907%	n/a	n/a	n/a	n/a	n/a	2.727%	2.934%
%RSD		0.934	1.939	1.737	2.227	1.240	1.138	2.894	3.183

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:33	97.810	101.100	96.690	97.800	97.250	98.842%
2	18:36:53	99.620	103.100	99.940	98.650	98.850	101.905%
3	18:37:13	98.910	102.500	98.920	99.930	98.980	104.460%
x		98.782%	102.263%	98.516%	98.793%	98.362%	101.736%
σ		n/a	n/a	n/a	n/a	n/a	2.813%
%RSD		0.923	1.005	1.688	1.087	0.983	2.765

CCB2 5/7/2015 6:43:14 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:34	113.798%	0.049	0.345	0.578	0.000	9.904	2.751	2.732
2	18:43:53	114.124%	-0.034	0.221	0.755	0.000	8.814	2.409	2.728
3	18:44:12	112.257%	0.015	0.918	0.602	0.000	8.936	2.621	2.103
x		113.393%	0.010	0.495	0.645	0.000	9.218	2.594	2.521
σ		0.997%	0.042	0.372	0.096	0.000	0.597	0.173	0.362
%RSD		0.879	417.900	75.140	14.830	0.000	6.479	6.656	14.350
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:34	0.646	-128.700	0.000	15.630	3.304	3.178	116.213%	0.043
2	18:43:53	0.478	-129.100	0.000	15.740	9.379	4.677	114.933%	0.054
3	18:44:12	0.555	-128.500	0.000	17.230	8.475	5.189	114.529%	0.025
x		0.560	-128.800	0.000	16.200	7.053	4.348	115.225%	0.041
σ		0.084	0.343	0.000	0.895	3.278	1.045	0.879%	0.015
%RSD		15.070	0.266	0.000	5.522	46.480	24.040	0.763	36.350
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:34	0.023	0.018	0.059	13.310	8.001	0.003	0.029	0.015
2	18:43:53	0.015	0.016	0.057	13.390	7.214	0.002	0.029	-0.036
3	18:44:12	0.042	0.029	0.049	12.270	7.735	0.006	0.000	0.023
x		0.027	0.021	0.055	12.990	7.650	0.004	0.019	0.001
σ		0.014	0.007	0.005	0.625	0.400	0.002	0.016	0.032
%RSD		51.250	34.700	9.173	4.808	5.234	54.510	85.370	3345.000
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:34	-0.006	0.160	0.364	0.011	0.682	-0.041	0.000	0.018
2	18:43:53	0.006	0.134	0.083	0.050	0.660	0.082	0.000	0.014
3	18:44:12	0.011	0.251	0.339	0.007	0.775	-0.036	0.000	0.018
x		0.004	0.182	0.262	0.023	0.706	0.001	0.000	0.017
σ		0.009	0.061	0.156	0.024	0.061	0.070	0.000	0.002
%RSD		223.600	33.610	59.350	105.700	8.686	4765.000	0.000	12.620
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:34	112.454%	0.270	0.248	111.146%	-0.007	-0.004	0.039	0.028
2	18:43:53	114.185%	0.247	0.208	113.144%	-0.004	-0.006	0.046	0.031
3	18:44:12	114.478%	0.196	0.211	114.453%	-0.005	0.002	-0.004	-0.007
x		113.706%	0.237	0.222	112.914%	-0.005	-0.002	0.027	0.017
σ		1.094%	0.038	0.022	1.666%	0.001	0.004	0.027	0.021
%RSD		0.962	15.920	10.090	1.475	25.340	168.400	101.200	123.600
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:43:34	106.047%	-0.148	-0.055	-0.063	-0.004	0.024	97.444%	95.592%
2	18:43:53	106.764%	-0.130	-0.044	-0.059	-0.022	0.019	99.752%	97.763%
3	18:44:12	106.920%	-0.116	-0.056	-0.062	0.041	-0.007	100.353%	98.137%
x		106.577%	-0.131	-0.052	-0.061	0.005	0.012	99.183%	97.164%
σ		0.466%	0.016	0.006	0.002	0.032	0.017	1.536%	1.374%
%RSD		0.437	12.080	12.090	3.251	619.000	138.900	1.548	1.414
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:43:34	0.017	0.012	0.021	-0.000	0.007	90.642%		
2	18:43:53	0.019	0.010	0.007	0.011	0.011	91.541%		
3	18:44:12	0.017	0.018	0.007	0.018	0.013	91.294%		
x		0.018	0.013	0.012	0.009	0.010	91.159%		
σ		0.001	0.004	0.008	0.009	0.003	0.464%		
%RSD		6.222	29.770	66.460	98.450	29.150	0.509		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:47:25	116.111%	0.036	28.750	29.360	0.000	56.030	2.079	2.247
2	18:47:44	87.714%	-0.020	30.300	29.710	0.000	51.030	2.331	1.843
3	18:48:03	34.880%	0.029	28.140	27.480	0.000	31.010	1.198	1.174
x		79.568%	0.015	29.060	28.850	0.000	46.020	1.869	1.755
σ		41.224%	0.030	1.114	1.198	0.000	13.240	0.595	0.542
%RSD		51.809	203.100	3.833	4.152	0.000	28.770	31.820	30.890
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:47:25	8.147	-61.200	0.000	12.940	7.585	13.430	107.394%	0.095
2	18:47:44	7.968	-64.920	0.000	5.540	8.256	11.590	92.827%	0.290
3	18:48:03	4.073	-96.020	0.000	103.400	1484.000	12.940	99.542%	0.210
x		6.729	-74.050	0.000	40.620	500.000	12.650	99.921%	0.198
σ		2.302	19.120	0.000	54.490	852.300	0.951	7.291%	0.098
%RSD		34.210	25.820	0.000	134.100	170.500	7.514	7.297	49.390
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:47:25	-0.905	0.527	0.129	11.560	10.050	0.001	0.024	0.597
2	18:47:44	-0.972	0.674	0.143	14.380	10.760	0.001	0.037	0.716
3	18:48:03	0.221	0.644	0.114	8.362	7.701	-0.002	0.007	0.578
x		-0.552	0.615	0.129	11.430	9.506	0.000	0.023	0.630
σ		0.670	0.078	0.015	3.009	1.603	0.002	0.015	0.075
%RSD		121.400	12.660	11.330	26.320	16.860	1375.000	66.630	11.900
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:47:25	0.601	0.832	0.875	-0.267	-0.014	0.134	0.000	0.041
2	18:47:44	0.685	0.939	1.141	-0.320	-0.194	0.094	0.000	0.033
3	18:48:03	0.554	0.979	0.983	0.040	-0.025	0.263	0.000	0.044
x		0.613	0.917	1.000	-0.182	-0.078	0.163	0.000	0.039
σ		0.066	0.076	0.134	0.194	0.101	0.088	0.000	0.005
%RSD		10.810	8.283	13.360	106.600	129.600	54.050	0.000	13.900
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:47:25	97.097%	0.338	0.366	97.529%	0.008	-0.001	0.087	0.059
2	18:47:44	96.486%	0.292	0.283	97.274%	-0.011	0.008	-0.015	-0.009
3	18:48:03	95.393%	0.239	0.251	96.305%	-0.001	0.010	0.096	0.074
x		96.325%	0.290	0.300	97.036%	-0.001	0.006	0.056	0.041
σ		0.863%	0.050	0.060	0.646%	0.009	0.006	0.061	0.044
%RSD		0.896	17.180	19.870	0.666	952.200	109.200	110.100	106.700
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:47:25	92.011%	1.356	0.150	0.148	0.047	0.060	89.415%	87.635%
2	18:47:44	93.310%	1.288	0.172	0.121	0.057	0.056	91.375%	90.340%
3	18:48:03	92.734%	1.172	0.130	0.126	0.054	0.034	91.604%	90.336%
x		92.685%	1.272	0.151	0.131	0.053	0.050	90.798%	89.437%
σ		0.651%	0.093	0.021	0.015	0.005	0.014	1.203%	1.560%
%RSD		0.703	7.335	13.830	11.050	9.618	28.170	1.325	1.745
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:47:25	0.024	0.019	0.033	0.031	0.033	75.372%		
2	18:47:44	0.021	0.023	0.050	0.062	0.048	73.409%		
3	18:48:03	0.091	0.076	0.212	0.230	0.137	20.650%		
x		0.045	0.039	0.098	0.108	0.073	56.477%		
σ		0.039	0.032	0.099	0.107	0.056	31.043%		
%RSD		87.760	81.300	100.300	99.660	77.320	54.965		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:51:13	109.233%	0.044	25.920	27.820	0.000	443.800	14.870	14.600
2	18:51:32	107.052%	0.071	28.860	27.100	0.000	427.200	14.000	14.350
3	18:51:52	102.284%	0.051	27.170	25.750	0.000	394.600	13.540	13.380
x		106.190%	0.055	27.320	26.890	0.000	421.900	14.140	14.110
σ		3.554%	0.014	1.475	1.048	0.000	25.020	0.675	0.639
%RSD		3.347	25.950	5.400	3.898	0.000	5.931	4.774	4.533
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:51:13	13.550	-56.840	0.000	44.600	102.300	109.400	95.142%	0.115
2	18:51:32	12.340	-59.720	0.000	42.300	99.660	97.060	93.382%	0.337
3	18:51:52	11.820	-62.710	0.000	35.240	79.790	89.240	94.191%	0.345
x		12.570	-59.750	0.000	40.710	93.930	98.580	94.238%	0.266
σ		0.885	2.934	0.000	4.880	12.320	10.180	0.881%	0.131
%RSD		7.040	4.910	0.000	11.990	13.110	10.330	0.935	49.140
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:51:13	-0.313	2.025	4.443	28.470	29.570	0.106	1.064	1.684
2	18:51:32	-0.015	2.052	4.601	28.500	31.260	0.119	1.064	1.512
3	18:51:52	-1.304	1.841	4.458	25.010	29.790	0.124	0.954	1.520
x		-0.544	1.973	4.501	27.330	30.210	0.116	1.027	1.572
σ		0.675	0.115	0.087	2.008	0.916	0.009	0.063	0.097
%RSD		124.100	5.811	1.938	7.347	3.034	8.007	6.178	6.160
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:51:13	1.539	3.896	4.115	0.389	0.086	0.440	0.000	0.191
2	18:51:32	1.557	3.952	4.063	0.220	-0.006	-0.032	0.000	0.203
3	18:51:52	1.465	3.831	3.631	-0.276	-0.163	0.336	0.000	0.186
x		1.521	3.893	3.936	0.111	-0.028	0.248	0.000	0.193
σ		0.049	0.061	0.266	0.346	0.126	0.248	0.000	0.009
%RSD		3.206	1.556	6.745	312.000	451.700	99.940	0.000	4.493
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:51:13	90.930%	0.139	0.162	92.409%	-0.000	0.006	-0.004	0.006
2	18:51:32	92.619%	0.188	0.167	91.630%	-0.006	0.009	0.031	0.023
3	18:51:52	95.616%	0.125	0.146	96.302%	-0.000	0.001	-0.023	-0.032
x		93.055%	0.151	0.158	93.447%	-0.002	0.006	0.001	-0.001
σ		2.373%	0.033	0.011	2.503%	0.003	0.004	0.027	0.028
%RSD		2.551	22.050	7.034	2.679	144.800	71.630	1969.000	2493.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:51:13	89.122%	1.525	0.084	0.044	0.346	0.335	90.204%	88.944%
2	18:51:32	91.181%	1.437	0.090	0.067	0.324	0.352	92.618%	91.505%
3	18:51:52	95.050%	1.310	0.085	0.059	0.244	0.295	96.673%	97.040%
x		91.784%	1.424	0.086	0.056	0.305	0.327	93.165%	92.496%
σ		3.009%	0.109	0.003	0.012	0.054	0.029	3.269%	4.138%
%RSD		3.279	7.623	3.561	20.980	17.670	8.996	3.509	4.473
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:51:13	0.005	0.006	0.120	0.106	0.106	77.925%		
2	18:51:32	0.011	0.007	0.095	0.102	0.098	81.683%		
3	18:51:52	0.010	0.005	0.081	0.083	0.076	94.754%		
x		0.009	0.006	0.099	0.097	0.093	84.787%		
σ		0.003	0.001	0.020	0.012	0.015	8.834%		
%RSD		35.090	16.230	19.930	12.390	16.380	10.419		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:59	103.960%	0.088	0.611	0.839	0.000	372.800	5.864	6.947
2	18:55:19	97.430%	0.016	1.173	1.159	0.000	369.400	6.154	6.946
3	18:55:38	98.824%	0.001	0.584	0.705	0.000	377.800	6.274	6.862
x		100.071%	0.035	0.789	0.901	0.000	373.300	6.097	6.918
σ		3.439%	0.047	0.332	0.233	0.000	4.222	0.211	0.049
%RSD		3.436	131.900	42.100	25.890	0.000	1.131	3.454	0.709
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:59	11.200	454.600	0.000	11.960	152.800	155.500	94.909%	0.355
2	18:55:19	11.730	443.000	0.000	11.160	153.100	162.600	92.900%	0.290
3	18:55:38	10.860	449.200	0.000	11.290	146.600	152.400	88.572%	0.281
x		11.260	448.900	0.000	11.470	150.800	156.800	92.127%	0.309
σ		0.441	5.775	0.000	0.428	3.675	5.228	3.239%	0.040
%RSD		3.911	1.286	0.000	3.731	2.436	3.334	3.515	13.040
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:59	-1.042	0.624	0.153	12.010	10.360	0.002	-0.013	0.915
2	18:55:19	-0.010	0.562	0.159	11.140	12.110	0.006	0.020	0.809
3	18:55:38	-0.224	0.588	0.145	11.440	12.880	0.003	-0.002	0.855
x		-0.426	0.591	0.152	11.530	11.780	0.004	0.002	0.860
σ		0.545	0.031	0.007	0.446	1.288	0.002	0.017	0.053
%RSD		128.000	5.287	4.829	3.867	10.930	57.750	961.000	6.180
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:59	0.768	1.801	2.019	-0.586	-0.480	-0.049	0.000	0.290
2	18:55:19	0.757	1.640	1.895	0.070	-0.136	0.395	0.000	0.293
3	18:55:38	0.919	1.705	2.033	0.086	-0.012	0.097	0.000	0.281
x		0.815	1.715	1.982	-0.144	-0.209	0.147	0.000	0.288
σ		0.091	0.081	0.076	0.383	0.242	0.226	0.000	0.006
%RSD		11.140	4.742	3.835	266.900	115.900	153.500	0.000	2.235
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:59	91.868%	0.084	0.135	91.879%	-0.018	-0.011	0.002	0.002
2	18:55:19	91.389%	0.082	0.125	91.756%	-0.014	-0.008	-0.025	-0.029
3	18:55:38	92.876%	0.128	0.120	93.108%	-0.002	-0.007	-0.004	-0.006
x		92.044%	0.098	0.127	92.248%	-0.011	-0.008	-0.009	-0.011
σ		0.759%	0.026	0.008	0.748%	0.009	0.002	0.014	0.016
%RSD		0.825	26.630	6.148	0.811	76.600	24.790	157.200	141.800
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:54:59	91.085%	2.076	0.036	0.060	0.340	0.350	92.712%	92.684%
2	18:55:19	92.340%	2.677	0.047	0.048	0.394	0.362	95.888%	95.727%
3	18:55:38	92.982%	1.812	0.039	0.052	0.347	0.378	97.053%	96.944%
x		92.135%	2.188	0.041	0.053	0.360	0.364	95.218%	95.118%
σ		0.965%	0.443	0.006	0.006	0.029	0.014	2.247%	2.194%
%RSD		1.047	20.250	13.510	11.930	8.049	3.880	2.359	2.307
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:54:59	0.000	0.004	0.048	0.056	0.050	91.633%		
2	18:55:19	0.005	0.006	0.061	0.057	0.054	91.294%		
3	18:55:38	0.010	0.004	0.045	0.061	0.057	93.333%		
x		0.005	0.005	0.051	0.058	0.054	92.087%		
σ		0.005	0.001	0.008	0.003	0.004	1.092%		
%RSD		101.100	27.440	16.400	5.263	6.545	1.186		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:46	100.282%	0.257	2.426	2.303	0.000	2822.000	966.500	989.100
2	18:59:05	100.333%	0.177	2.157	2.296	0.000	2761.000	964.700	968.600
3	18:59:24	97.461%	0.086	2.144	2.388	0.000	2689.000	957.100	975.800
x		99.359%	0.174	2.242	2.329	0.000	2757.000	962.800	977.800
σ		1.644%	0.085	0.159	0.051	0.000	66.590	4.975	10.380
%RSD		1.654	49.160	7.108	2.202	0.000	2.415	0.517	1.061
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:46	390.500	4676.000	0.000	1056.000	2831.000	2684.000	89.623%	31.660
2	18:59:05	384.700	4659.000	0.000	1098.000	3066.000	2793.000	84.216%	32.680
3	18:59:24	384.700	4642.000	0.000	1101.000	2961.000	2787.000	84.583%	32.690
x		386.700	4659.000	0.000	1085.000	2953.000	2754.000	86.141%	32.340
σ		3.353	17.020	0.000	25.270	118.000	61.120	3.021%	0.590
%RSD		0.867	0.365	0.000	2.329	3.997	2.219	3.508	1.824
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:46	0.646	1.478	14.820	873.800	872.000	0.554	0.362	39.280
2	18:59:05	-0.335	1.475	15.480	894.600	903.400	0.596	0.294	40.330
3	18:59:24	-0.624	1.465	15.290	899.000	902.600	0.546	0.378	40.240
x		-0.104	1.473	15.190	889.100	892.600	0.565	0.344	39.950
σ		0.666	0.007	0.339	13.460	17.890	0.027	0.044	0.584
%RSD		641.100	0.467	2.230	1.513	2.004	4.726	12.890	1.463
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:46	39.640	50.620	51.500	-0.262	-0.251	0.172	0.000	28.920
2	18:59:05	39.590	50.970	50.960	-0.123	-0.578	0.303	0.000	28.670
3	18:59:24	40.110	52.410	52.310	0.194	-0.293	0.335	0.000	29.370
x		39.780	51.330	51.590	-0.064	-0.374	0.270	0.000	28.990
σ		0.284	0.952	0.676	0.234	0.178	0.086	0.000	0.352
%RSD		0.714	1.855	1.311	367.700	47.600	31.880	0.000	1.214
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:46	88.995%	0.114	0.103	89.866%	-0.014	-0.005	-0.021	-0.017
2	18:59:05	90.665%	0.090	0.101	90.437%	-0.009	-0.012	-0.002	0.002
3	18:59:24	90.745%	0.116	0.115	90.494%	-0.016	0.000	-0.028	-0.013
x		90.135%	0.107	0.106	90.266%	-0.013	-0.006	-0.017	-0.009
σ		0.988%	0.015	0.007	0.347%	0.004	0.006	0.014	0.010
%RSD		1.096	13.800	6.952	0.385	29.220	112.200	80.410	108.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:58:46	89.099%	0.818	0.016	0.004	32.630	32.570	94.232%	94.783%
2	18:59:05	91.156%	0.815	0.034	0.001	33.210	32.810	95.264%	96.159%
3	18:59:24	92.222%	0.773	0.021	0.029	32.270	32.460	97.700%	98.634%
x		90.826%	0.802	0.024	0.011	32.700	32.620	95.732%	96.525%
σ		1.587%	0.025	0.009	0.015	0.477	0.179	1.781%	1.952%
%RSD		1.748	3.111	39.440	134.000	1.458	0.550	1.860	2.022
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:58:46	0.018	0.015	1.627	1.605	1.633	93.292%		
2	18:59:05	0.013	0.013	1.705	1.661	1.690	93.368%		
3	18:59:24	0.016	0.014	1.700	1.686	1.726	95.237%		
x		0.016	0.014	1.677	1.650	1.683	93.966%		
σ		0.002	0.001	0.044	0.041	0.047	1.102%		
%RSD		15.110	7.446	2.595	2.511	2.768	1.173		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:33	105.111%	0.009	17.870	18.820	0.000	72.250	5.358	5.134
2	19:02:53	104.290%	0.050	18.520	17.450	0.000	72.460	5.311	4.822
3	19:03:12	100.726%	0.040	17.500	18.480	0.000	73.570	5.596	5.625
x		103.376%	0.033	17.960	18.250	0.000	72.760	5.422	5.194
σ		2.331%	0.021	0.515	0.714	0.000	0.708	0.153	0.405
%RSD		2.255	63.540	2.868	3.913	0.000	0.973	2.820	7.793

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:33	12.610	-53.470	0.000	5.929	19.700	21.340	94.480%	0.201
2	19:02:53	12.490	-55.280	0.000	7.316	17.510	28.620	89.723%	0.353
3	19:03:12	12.790	-53.400	0.000	8.676	28.180	26.900	88.375%	0.154
x		12.630	-54.050	0.000	7.307	21.800	25.620	90.859%	0.236
σ		0.148	1.068	0.000	1.373	5.636	3.805	3.207%	0.104
%RSD		1.173	1.975	0.000	18.790	25.850	14.850	3.530	44.190

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:33	0.446	0.561	0.148	11.000	12.180	-0.001	0.032	0.725
2	19:02:53	0.321	0.548	0.183	11.650	14.090	-0.004	-0.019	0.795
3	19:03:12	-0.756	0.598	0.151	11.440	12.520	-0.001	0.034	0.676
x		0.004	0.569	0.161	11.360	12.930	-0.002	0.016	0.732
σ		0.661	0.026	0.019	0.335	1.018	0.002	0.030	0.060
%RSD		17240.000	4.555	11.850	2.950	7.869	78.880	190.900	8.201

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:33	0.734	4.937	5.028	0.096	-0.308	0.153	0.000	0.060
2	19:02:53	0.715	5.130	5.258	0.093	-0.512	0.180	0.000	0.058
3	19:03:12	0.695	4.842	5.434	0.417	-0.467	0.095	0.000	0.063
x		0.715	4.969	5.240	0.202	-0.429	0.143	0.000	0.060
σ		0.020	0.147	0.204	0.186	0.107	0.043	0.000	0.002
%RSD		2.750	2.951	3.889	92.140	24.930	30.270	0.000	4.067

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:33	88.828%	0.060	0.062	90.681%	-0.009	-0.014	0.063	0.033
2	19:02:53	89.335%	0.075	0.085	89.750%	-0.016	-0.008	0.055	0.051
3	19:03:12	89.976%	0.061	0.072	90.409%	-0.008	-0.010	0.014	0.011
x		89.380%	0.065	0.073	90.280%	-0.011	-0.011	0.044	0.032
σ		0.576%	0.009	0.011	0.479%	0.005	0.003	0.026	0.020
%RSD		0.644	13.340	15.400	0.530	41.260	29.530	59.150	62.870

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:33	88.067%	0.424	-0.011	0.016	0.102	0.083	90.513%	90.036%
2	19:02:53	88.911%	0.474	0.027	-0.003	0.060	0.095	91.922%	91.627%
3	19:03:12	89.529%	0.379	0.028	0.022	0.079	0.082	92.859%	92.642%
x		88.835%	0.425	0.015	0.012	0.081	0.087	91.765%	91.435%
σ		0.734%	0.047	0.022	0.013	0.021	0.007	1.181%	1.313%
%RSD		0.826	11.140	149.400	113.100	26.350	8.168	1.287	1.436

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:02:33	0.005	-0.001	0.168	0.177	0.170	87.854%
2	19:02:53	0.012	-0.001	0.212	0.189	0.193	85.669%
3	19:03:12	0.003	0.000	0.161	0.171	0.186	85.726%
x		0.007	-0.001	0.180	0.179	0.183	86.416%
σ		0.005	0.001	0.028	0.009	0.011	1.245%
%RSD		68.500	144.100	15.280	5.058	6.246	1.441

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:21	54.442%	-0.033	3.904	4.408	0.000	-0.920	-0.365	-0.377
2	19:06:40	26.548%	-0.033	1.270	3.971	0.000	-2.592	-0.621	-0.455
3	19:06:59	25.974%	-0.032	2.565	4.825	0.000	-1.444	-0.553	-0.345
x		35.655%	-0.033	2.580	4.402	0.000	-1.652	-0.513	-0.393
σ		16.273%	0.001	1.317	0.427	0.000	0.855	0.132	0.057
%RSD		45.640	1.839	51.060	9.702	0.000	51.770	25.780	14.420
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:21	-1.058	-117.200	0.000	203.800	395.400	15.080	87.408%	0.131
2	19:06:40	-1.364	-86.520	0.000	265.200	219.800	15.650	88.441%	0.167
3	19:06:59	-1.317	-128.800	0.000	233.100	15.080	13.960	86.456%	0.185
x		-1.246	-110.900	0.000	234.000	210.100	14.900	87.435%	0.161
σ		0.164	21.860	0.000	30.720	190.300	0.860	0.993%	0.028
%RSD		13.190	19.720	0.000	13.130	90.600	5.772	1.136	17.230
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:21	-0.583	0.560	0.140	3.618	4.798	-0.008	0.023	0.641
2	19:06:40	-0.963	0.615	0.162	3.289	4.731	-0.003	0.004	0.578
3	19:06:59	-1.004	0.614	0.168	2.568	4.565	0.003	0.018	0.544
x		-0.850	0.596	0.157	3.159	4.698	-0.002	0.015	0.588
σ		0.232	0.031	0.015	0.537	0.120	0.005	0.010	0.049
%RSD		27.280	5.219	9.320	17.000	2.556	222.700	66.120	8.328
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:21	0.592	6.200	6.116	-0.229	-0.500	0.202	0.000	0.033
2	19:06:40	0.604	6.111	6.282	0.523	-0.425	0.162	0.000	0.036
3	19:06:59	0.525	5.774	6.120	0.220	-0.467	0.239	0.000	0.034
x		0.574	6.028	6.173	0.172	-0.464	0.201	0.000	0.034
σ		0.042	0.225	0.094	0.378	0.037	0.038	0.000	0.002
%RSD		7.384	3.728	1.530	220.400	8.004	18.980	0.000	4.565
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:21	86.055%	0.081	0.081	87.626%	-0.017	-0.012	0.031	0.010
2	19:06:40	87.169%	0.099	0.079	87.624%	-0.017	-0.007	-0.009	-0.008
3	19:06:59	87.080%	0.057	0.092	89.256%	-0.018	-0.011	-0.004	0.005
x		86.768%	0.079	0.084	88.169%	-0.017	-0.010	0.006	0.002
σ		0.619%	0.021	0.007	0.942%	0.001	0.003	0.022	0.009
%RSD		0.713	26.850	8.054	1.068	4.862	24.640	366.600	427.700
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:06:21	84.934%	0.295	0.001	0.004	0.115	0.185	84.738%	84.349%
2	19:06:40	85.399%	0.337	0.002	-0.010	0.193	0.166	87.027%	86.183%
3	19:06:59	86.026%	0.247	0.018	-0.011	0.172	0.116	89.268%	88.368%
x		85.453%	0.293	0.007	-0.006	0.160	0.156	87.011%	86.300%
σ		0.548%	0.045	0.009	0.009	0.040	0.036	2.265%	2.012%
%RSD		0.641	15.440	134.500	151.400	25.260	22.820	2.603	2.331
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:06:21	0.029	0.043	0.545	0.168	0.194	12.330%		
2	19:06:40	1.#IO	1.#IO	1.#IO	1.#IO	1.#IO	0.000%		
3	19:06:59	0.092	0.108	1.535	0.188	0.477	5.224%		
x		1.#IO	1.#IO	1.#IO	1.#IO	1.#IO	5.851%		
σ		n/a	n/a	n/a	n/a	n/a	6.189%		
%RSD		1.#QO	1.#QO	1.#QO	1.#QO	1.#QO	105.771		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:08	99.030%	-0.026	19.730	20.100	0.000	45.280	2.742	2.684
2	19:10:28	98.126%	0.057	21.470	20.950	0.000	46.740	2.960	2.873
3	19:10:47	99.754%	0.029	19.440	19.440	0.000	46.980	3.477	2.600
x		98.970%	0.020	20.210	20.160	0.000	46.330	3.060	2.719
σ		0.816%	0.042	1.097	0.756	0.000	0.918	0.378	0.140
%RSD		0.824	212.200	5.428	3.751	0.000	1.981	12.340	5.146
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:08	11.650	-44.070	0.000	5.372	4.013	16.250	88.078%	0.090
2	19:10:28	12.560	-42.360	0.000	4.839	10.840	15.200	86.368%	0.198
3	19:10:47	11.660	-44.280	0.000	5.248	22.400	17.490	83.289%	0.099
x		11.960	-43.570	0.000	5.153	12.420	16.310	85.912%	0.129
σ		0.523	1.054	0.000	0.279	9.297	1.147	2.427%	0.060
%RSD		4.378	2.419	0.000	5.409	74.870	7.031	2.825	46.480
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:08	-0.438	0.555	0.075	4.139	5.486	-0.005	-0.009	0.644
2	19:10:28	-0.029	0.451	0.066	2.711	6.635	-0.005	-0.016	0.622
3	19:10:47	-0.639	0.486	0.084	4.232	5.750	0.001	-0.026	0.575
x		-0.369	0.497	0.075	3.694	5.957	-0.003	-0.017	0.614
σ		0.311	0.053	0.009	0.853	0.602	0.003	0.008	0.036
%RSD		84.270	10.670	12.040	23.090	10.100	112.900	48.610	5.796
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:08	0.572	4.152	4.415	0.233	-0.530	0.072	0.000	0.048
2	19:10:28	0.552	4.132	4.202	0.211	-0.042	-0.026	0.000	0.041
3	19:10:47	0.613	4.106	4.109	0.471	-0.333	0.114	0.000	0.048
x		0.579	4.130	4.242	0.305	-0.302	0.053	0.000	0.046
σ		0.031	0.023	0.157	0.144	0.246	0.072	0.000	0.004
%RSD		5.404	0.553	3.697	47.210	81.440	135.900	0.000	9.009
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:08	86.954%	0.039	0.066	88.267%	-0.020	-0.016	0.005	0.001
2	19:10:28	87.680%	0.040	0.068	89.636%	-0.013	-0.015	-0.012	-0.016
3	19:10:47	88.354%	0.047	0.063	89.877%	-0.015	-0.014	-0.035	-0.032
x		87.662%	0.042	0.066	89.260%	-0.016	-0.015	-0.014	-0.016
σ		0.700%	0.004	0.002	0.869%	0.004	0.001	0.020	0.016
%RSD		0.799	9.949	3.556	0.973	22.750	6.604	141.300	105.400
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:08	86.904%	0.210	-0.007	0.010	0.128	0.067	91.232%	90.359%
2	19:10:28	88.930%	0.223	-0.013	-0.014	0.084	0.079	92.530%	93.352%
3	19:10:47	89.948%	0.218	-0.013	-0.014	0.097	0.083	94.929%	95.301%
x		88.594%	0.217	-0.011	-0.006	0.103	0.076	92.897%	93.004%
σ		1.550%	0.007	0.004	0.014	0.022	0.008	1.876%	2.489%
%RSD		1.749	3.111	34.490	234.100	21.810	10.690	2.019	2.676
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:10:08	0.006	-0.000	0.194	0.174	0.186	88.810%		
2	19:10:28	0.003	0.005	0.191	0.191	0.195	90.121%		
3	19:10:47	0.002	0.001	0.193	0.195	0.178	90.714%		
x		0.004	0.002	0.192	0.187	0.186	89.881%		
σ		0.002	0.002	0.001	0.011	0.008	0.974%		
%RSD		54.340	122.800	0.745	5.963	4.544	1.084		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:57	96.342%	0.031	19.940	21.430	0.000	41.990	1.378	1.488
2	19:14:16	97.254%	-0.011	21.920	21.470	0.000	41.990	1.756	1.432
3	19:14:35	97.447%	0.087	23.020	21.980	0.000	43.100	1.118	1.526
x		97.014%	0.036	21.630	21.630	0.000	42.360	1.417	1.482
σ		0.590%	0.049	1.562	0.309	0.000	0.642	0.321	0.047
%RSD		0.608	137.300	7.221	1.429	0.000	1.516	22.640	3.191
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:57	10.270	-46.410	0.000	1.337	3.628	8.401	90.577%	0.249
2	19:14:16	10.910	-44.540	0.000	4.631	6.006	9.386	84.366%	0.083
3	19:14:35	10.440	-44.860	0.000	3.801	10.240	10.080	83.447%	0.126
x		10.540	-45.270	0.000	3.256	6.623	9.289	86.130%	0.153
σ		0.331	1.000	0.000	1.713	3.346	0.843	3.879%	0.086
%RSD		3.138	2.209	0.000	52.610	50.520	9.078	4.503	56.540
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:57	-0.251	1.250	0.053	4.843	6.124	-0.003	-0.037	0.493
2	19:14:16	-0.659	1.327	0.083	6.083	6.907	-0.001	-0.031	0.444
3	19:14:35	-0.743	1.285	0.073	7.740	7.448	-0.001	-0.018	0.507
x		-0.551	1.287	0.070	6.222	6.826	-0.001	-0.029	0.481
σ		0.263	0.039	0.015	1.453	0.666	0.001	0.009	0.033
%RSD		47.790	2.995	21.950	23.350	9.757	76.400	33.090	6.796
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:57	0.497	8.704	8.650	0.411	-0.242	0.075	0.000	0.028
2	19:14:16	0.380	9.024	9.810	-0.404	-0.400	0.006	0.000	0.025
3	19:14:35	0.323	9.334	8.999	0.372	-0.332	0.059	0.000	0.020
x		0.400	9.021	9.153	0.126	-0.324	0.047	0.000	0.024
σ		0.089	0.315	0.595	0.460	0.079	0.036	0.000	0.004
%RSD		22.160	3.493	6.503	364.400	24.420	77.230	0.000	15.510
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:57	87.247%	0.039	0.066	87.994%	-0.022	-0.016	-0.002	-0.004
2	19:14:16	89.451%	0.044	0.064	89.928%	-0.014	-0.014	0.002	0.013
3	19:14:35	89.050%	0.042	0.057	89.954%	-0.016	-0.016	-0.035	-0.033
x		88.582%	0.041	0.063	89.292%	-0.017	-0.015	-0.012	-0.008
σ		1.174%	0.003	0.005	1.124%	0.004	0.001	0.021	0.023
%RSD		1.325	6.108	7.462	1.259	23.770	7.078	178.600	287.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:13:57	89.045%	0.159	-0.002	-0.028	0.044	0.056	92.441%	92.829%
2	19:14:16	89.763%	0.137	-0.030	-0.016	0.045	0.029	95.927%	96.220%
3	19:14:35	90.988%	0.115	-0.012	-0.026	0.041	0.024	96.125%	96.750%
x		89.932%	0.137	-0.015	-0.023	0.043	0.036	94.831%	95.266%
σ		0.983%	0.022	0.014	0.006	0.002	0.017	2.072%	2.128%
%RSD		1.093	15.860	97.550	27.790	5.581	47.010	2.185	2.233
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:13:57	0.002	-0.001	0.023	0.021	0.022	93.029%		
2	19:14:16	0.001	-0.000	0.010	0.021	0.018	93.553%		
3	19:14:35	0.008	0.000	0.025	0.015	0.021	94.774%		
x		0.004	-0.000	0.019	0.019	0.020	93.786%		
σ		0.004	0.001	0.008	0.004	0.002	0.896%		
%RSD		96.860	166.700	43.270	18.920	10.440	0.955		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:45	98.366%	0.113	1.175	1.766	0.000	3605.000	1304.000	1330.000
2	19:18:04	94.969%	0.019	1.600	2.004	0.000	3616.000	1255.000	1286.000
3	19:18:23	93.989%	0.063	1.762	1.718	0.000	3501.000	1243.000	1292.000
x		95.775%	0.065	1.512	1.830	0.000	3574.000	1267.000	1303.000
σ		2.297%	0.047	0.303	0.153	0.000	63.280	32.080	23.740
%RSD		2.398	71.860	20.040	8.367	0.000	1.771	2.531	1.823
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:45	31.840	6450.000	0.000	1805.000	7920.000	7138.000	84.694%	2.478
2	19:18:04	31.270	6362.000	0.000	1798.000	7739.000	7313.000	83.019%	2.664
3	19:18:23	29.220	6146.000	0.000	1790.000	7770.000	7043.000	85.537%	2.866
x		30.780	6319.000	0.000	1798.000	7810.000	7165.000	84.417%	2.669
σ		1.375	156.400	0.000	7.467	96.700	136.900	1.282%	0.194
%RSD		4.466	2.475	0.000	0.415	1.238	1.911	1.518	7.253
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:45	-0.985	0.596	29.040	40.790	60.070	0.767	0.032	0.497
2	19:18:04	-0.176	0.574	29.290	40.610	56.930	0.795	0.083	0.452
3	19:18:23	-0.153	0.685	29.350	40.000	58.520	0.756	0.078	0.439
x		-0.438	0.618	29.220	40.470	58.510	0.773	0.064	0.463
σ		0.474	0.059	0.165	0.415	1.568	0.020	0.028	0.030
%RSD		108.200	9.483	0.565	1.025	2.680	2.605	44.220	6.504
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:45	0.448	11.180	11.170	0.334	-0.704	0.093	0.000	72.070
2	19:18:04	0.400	10.600	11.780	0.030	-0.388	0.112	0.000	73.110
3	19:18:23	0.422	10.990	11.110	0.097	-0.673	0.068	0.000	72.790
x		0.423	10.920	11.360	0.154	-0.588	0.091	0.000	72.660
σ		0.024	0.294	0.368	0.160	0.174	0.022	0.000	0.531
%RSD		5.583	2.691	3.241	104.000	29.570	24.410	0.000	0.731
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:45	86.771%	0.016	0.042	87.473%	-0.001	-0.004	0.100	0.073
2	19:18:04	86.459%	0.012	0.036	86.830%	-0.014	-0.003	0.047	0.056
3	19:18:23	86.717%	0.067	0.025	87.578%	-0.012	-0.007	0.095	0.088
x		86.649%	0.032	0.034	87.293%	-0.009	-0.004	0.081	0.072
σ		0.167%	0.031	0.009	0.405%	0.007	0.002	0.029	0.016
%RSD		0.193	97.610	25.310	0.464	77.700	46.790	36.580	22.700
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:17:45	86.942%	0.310	0.127	0.129	91.870	91.470	92.539%	93.194%
2	19:18:04	87.806%	0.296	0.092	0.136	92.150	91.810	94.270%	95.507%
3	19:18:23	87.941%	0.313	0.117	0.122	92.770	91.900	95.271%	96.531%
x		87.563%	0.306	0.112	0.129	92.260	91.730	94.026%	95.077%
σ		0.542%	0.009	0.018	0.007	0.461	0.222	1.382%	1.710%
%RSD		0.620	2.867	16.130	5.403	0.500	0.242	1.470	1.798
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:17:45	0.011	0.011	0.054	0.035	0.040	91.200%		
2	19:18:04	0.020	0.010	0.049	0.035	0.044	92.634%		
3	19:18:23	0.009	0.010	0.037	0.051	0.043	93.306%		
x		0.013	0.010	0.046	0.041	0.042	92.380%		
σ		0.006	0.001	0.009	0.009	0.002	1.076%		
%RSD		41.210	9.445	18.470	22.140	5.420	1.165		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:33	95.873%	0.018	1.952	2.299	0.000	3153.000	1225.000	1241.000
2	19:21:53	92.496%	0.110	1.950	2.069	0.000	3057.000	1206.000	1220.000
3	19:22:12	90.082%	0.040	2.100	2.099	0.000	3113.000	1236.000	1258.000
x		92.817%	0.056	2.001	2.156	0.000	3108.000	1223.000	1239.000
σ		2.908%	0.048	0.086	0.125	0.000	47.970	15.220	19.110
%RSD		3.134	85.370	4.296	5.804	0.000	1.544	1.244	1.542
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:33	31.160	4397.000	0.000	1341.000	6367.000	5976.000	85.317%	0.575
2	19:21:53	33.270	4254.000	0.000	1311.000	6528.000	6086.000	83.536%	0.724
3	19:22:12	32.720	4420.000	0.000	1359.000	6801.000	6212.000	77.571%	0.534
x		32.380	4357.000	0.000	1337.000	6565.000	6091.000	82.141%	0.611
σ		1.091	89.710	0.000	24.050	219.500	118.400	4.057%	0.100
%RSD		3.370	2.059	0.000	1.799	3.343	1.943	4.939	16.370
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:33	-0.624	0.689	22.590	36.460	52.320	0.024	0.092	0.415
2	19:21:53	-0.311	0.723	22.630	34.360	49.780	0.025	0.090	0.382
3	19:22:12	-0.772	0.732	23.510	36.440	49.650	0.018	0.085	0.445
x		-0.569	0.714	22.910	35.750	50.580	0.022	0.089	0.414
σ		0.235	0.023	0.519	1.208	1.508	0.004	0.003	0.032
%RSD		41.310	3.176	2.267	3.379	2.980	18.290	3.894	7.629
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:33	0.346	3.630	4.016	0.636	-0.541	0.381	0.000	30.770
2	19:21:53	0.319	3.897	3.679	0.239	-0.728	0.297	0.000	31.270
3	19:22:12	0.383	4.163	4.074	-0.255	-0.513	0.166	0.000	31.130
x		0.350	3.896	3.923	0.207	-0.594	0.281	0.000	31.060
σ		0.032	0.267	0.213	0.447	0.117	0.108	0.000	0.258
%RSD		9.189	6.839	5.433	215.700	19.620	38.500	0.000	0.832
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:33	83.102%	0.037	0.041	85.219%	-0.014	-0.016	0.085	0.073
2	19:21:53	83.297%	0.067	0.057	83.356%	-0.017	-0.011	0.001	0.005
3	19:22:12	83.171%	0.018	0.023	84.190%	-0.018	-0.013	0.007	0.008
x		83.190%	0.041	0.040	84.255%	-0.016	-0.013	0.031	0.029
σ		0.099%	0.024	0.017	0.933%	0.002	0.002	0.046	0.038
%RSD		0.119	60.280	42.510	1.107	14.120	18.480	149.400	133.800
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:21:33	82.801%	0.767	-0.002	-0.009	26.520	25.740	86.610%	86.215%
2	19:21:53	84.076%	0.759	-0.024	-0.011	26.630	26.100	88.423%	88.808%
3	19:22:12	83.932%	0.751	-0.017	-0.011	26.960	26.330	89.158%	88.977%
x		83.603%	0.759	-0.015	-0.010	26.700	26.060	88.064%	88.000%
σ		0.698%	0.008	0.011	0.001	0.232	0.294	1.312%	1.548%
%RSD		0.835	1.046	78.570	8.866	0.868	1.128	1.489	1.759
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:21:33	0.013	0.002	0.056	0.079	0.066	77.625%		
2	19:21:53	0.008	0.001	0.076	0.052	0.065	79.035%		
3	19:22:12	0.011	0.001	0.083	0.085	0.078	80.908%		
x		0.011	0.001	0.071	0.072	0.069	79.189%		
σ		0.003	0.001	0.014	0.018	0.007	1.647%		
%RSD		27.610	51.840	19.780	24.270	10.450	2.080		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:10	112.215%	95.910	95.780	93.910	0.000	46620.000	46900.000	46610.000
2	19:25:29	109.210%	102.300	96.250	95.830	0.000	47830.000	47940.000	48000.000
3	19:25:49	109.346%	98.060	101.800	90.720	0.000	47080.000	47520.000	48190.000
x		110.257%	98.761%	97.932%	93.485%	0.000	94.352%	94.909%	95.200%
σ		1.697%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.539	3.301	3.405	2.757	0.000	1.290	1.107	1.814

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:10	451.700	4667.000	0.000	45800.000	44510.000	45780.000	115.645%	84.820
2	19:25:29	463.200	4733.000	0.000	47970.000	47380.000	47930.000	110.092%	93.590
3	19:25:49	461.300	4662.000	0.000	48510.000	47370.000	48560.000	108.592%	90.630
x		91.749%	93.745%	0.000	94.852%	92.842%	94.849%	111.443%	89.681%
σ		n/a	n/a	0.000	n/a	n/a	n/a	3.716%	n/a
%RSD		1.340	0.845	0.000	3.027	3.567	3.075	3.334	4.979

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:10	91.390	91.880	464.300	23330.000	23160.000	92.080	95.090	94.940
2	19:25:29	96.960	98.410	495.400	25260.000	24840.000	98.640	99.500	101.200
3	19:25:49	96.750	97.120	489.900	24940.000	24770.000	97.180	99.400	98.410
x		95.035%	95.805%	96.639%	98.038%	97.014%	95.967%	97.997%	98.172%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		3.326	3.609	3.429	4.231	3.916	3.590	2.567	3.182

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:10	94.530	93.630	94.710	97.320	99.720	100.400	0.000	94.270
2	19:25:29	99.820	98.930	99.480	99.000	101.500	100.900	0.000	95.500
3	19:25:49	98.150	98.350	98.120	100.500	101.900	103.100	0.000	95.770
x		97.501%	96.972%	97.435%	98.941%	101.029%	101.468%	0.000	95.179%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.773	2.999	2.522	1.607	1.134	1.454	0.000	0.842

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:10	93.185%	87.950	87.580	93.068%	93.820	94.860	93.780	94.480
2	19:25:29	94.991%	91.780	91.150	94.149%	94.930	95.210	95.680	96.600
3	19:25:49	96.030%	91.670	91.960	95.199%	95.450	96.410	95.640	97.480
x		94.735%	90.464%	90.231%	94.138%	94.734%	95.492%	95.034%	96.187%
σ		1.440%	n/a	n/a	1.066%	n/a	n/a	n/a	n/a
%RSD		1.520	2.409	2.580	1.132	0.883	0.852	1.144	1.607

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:10	88.667%	92.090	93.990	94.460	95.500	93.700	85.253%	83.874%
2	19:25:29	90.692%	93.920	96.290	96.390	96.590	95.500	87.740%	86.965%
3	19:25:49	91.806%	93.970	95.610	96.970	96.260	95.610	90.499%	89.144%
x		90.389%	93.327%	95.295%	95.941%	96.116%	94.941%	87.831%	86.661%
σ		1.591%	n/a	n/a	n/a	n/a	n/a	2.624%	2.648%
%RSD		1.761	1.145	1.239	1.367	0.586	1.130	2.988	3.056

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:25:10	99.120	102.400	99.730	99.260	98.890	88.212%
2	19:25:29	101.000	104.000	100.600	100.400	100.700	91.712%
3	19:25:49	100.200	103.900	102.200	101.200	100.900	95.831%
x		100.110%	103.434%	100.827%	100.298%	100.155%	91.918%
σ		n/a	n/a	n/a	n/a	n/a	3.814%
%RSD		0.952	0.900	1.225	0.967	1.098	4.149

CCB3 5/7/2015 7:31:51 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:32:10	110.287%	0.065	0.553	0.197	0.000	1.402	2.546	2.255
2	19:32:29	109.509%	-0.032	0.238	0.254	0.000	1.270	2.293	2.190
3	19:32:49	115.285%	-0.011	0.096	0.233	0.000	0.547	2.217	2.201
x		111.694%	0.007	0.295	0.228	0.000	1.073	2.352	2.216
σ		3.135%	0.051	0.234	0.029	0.000	0.460	0.172	0.035
%RSD		2.806	687.300	79.210	12.540	0.000	42.890	7.312	1.557

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:32:10	0.302	-129.000	0.000	7.740	5.354	4.139	115.709%	-0.025
2	19:32:29	0.319	-128.500	0.000	7.741	1.680	4.035	113.345%	0.026
3	19:32:49	0.426	-128.600	0.000	9.064	3.896	3.272	111.386%	0.038
x		0.349	-128.700	0.000	8.182	3.643	3.815	113.480%	0.013
σ		0.067	0.272	0.000	0.764	1.850	0.473	2.165%	0.033
%RSD		19.170	0.211	0.000	9.343	50.770	12.410	1.907	255.100

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:32:10	0.000	-0.008	0.046	5.383	7.196	0.001	-0.008	-0.018
2	19:32:29	0.026	-0.016	0.057	4.911	5.898	0.003	0.020	0.001
3	19:32:49	0.004	-0.009	0.059	4.892	4.827	0.003	0.024	-0.021
x		0.010	-0.011	0.054	5.062	5.974	0.002	0.012	-0.013
σ		0.014	0.004	0.007	0.278	1.186	0.001	0.018	0.012
%RSD		136.700	38.730	12.630	5.500	19.860	37.160	148.400	95.830

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:32:10	0.011	0.115	0.279	0.022	0.371	-0.006	0.000	0.013
2	19:32:29	0.016	0.032	0.381	-0.003	0.446	0.043	0.000	0.014
3	19:32:49	-0.004	0.122	0.327	0.010	0.298	0.052	0.000	0.017
x		0.008	0.090	0.329	0.010	0.372	0.030	0.000	0.014
σ		0.010	0.050	0.051	0.013	0.074	0.031	0.000	0.002
%RSD		134.700	55.650	15.610	131.100	19.910	105.700	0.000	13.720

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:32:10	102.839%	0.221	0.242	103.963%	-0.008	-0.000	0.040	0.033
2	19:32:29	103.203%	0.242	0.210	105.056%	-0.003	-0.008	0.049	0.051
3	19:32:49	104.572%	0.185	0.175	106.545%	-0.009	-0.006	0.024	0.014
x		103.538%	0.216	0.209	105.188%	-0.007	-0.005	0.038	0.033
σ		0.914%	0.029	0.033	1.296%	0.003	0.004	0.013	0.018
%RSD		0.882	13.390	15.840	1.232	52.690	83.520	34.230	55.410

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:32:10	98.931%	-0.157	-0.060	-0.065	0.012	0.008	91.752%	90.574%
2	19:32:29	99.740%	-0.190	-0.060	-0.064	-0.008	0.009	94.359%	93.151%
3	19:32:49	100.563%	-0.186	-0.057	-0.064	0.013	0.002	95.931%	94.712%
x		99.744%	-0.177	-0.059	-0.064	0.005	0.006	94.014%	92.812%
σ		0.816%	0.018	0.002	0.000	0.012	0.004	2.111%	2.089%
%RSD		0.818	10.200	3.218	0.749	220.600	63.740	2.245	2.251

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:32:10	0.009	0.007	0.005	0.014	0.015	89.859%
2	19:32:29	0.011	0.011	0.008	0.004	0.004	91.816%
3	19:32:49	0.012	0.007	0.006	0.008	0.007	91.984%
x		0.011	0.008	0.006	0.008	0.009	91.220%
σ		0.002	0.003	0.002	0.005	0.006	1.181%
%RSD		14.410	30.520	25.820	59.040	65.140	1.295

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:01	103.116%	0.011	13.910	14.140	0.000	4152.000	1293.000	1328.000
2	19:36:21	100.540%	0.014	13.810	15.740	0.000	4370.000	1350.000	1401.000
3	19:36:40	99.105%	0.070	13.300	13.920	0.000	4263.000	1320.000	1346.000
x		100.921%	0.031	13.670	14.600	0.000	4262.000	1321.000	1358.000
σ		2.032%	0.033	0.327	0.993	0.000	109.100	28.690	38.210
%RSD		2.014	105.400	2.392	6.800	0.000	2.559	2.172	2.813

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:01	8.952	4295.000	0.000	4639.000	4554.000	4216.000	93.673%	0.482
2	19:36:21	8.214	4561.000	0.000	4668.000	4670.000	4355.000	89.343%	0.520
3	19:36:40	8.324	4498.000	0.000	4772.000	4689.000	4371.000	87.525%	0.480
x		8.497	4451.000	0.000	4693.000	4638.000	4314.000	90.180%	0.494
σ		0.398	139.000	0.000	70.130	72.810	85.760	3.158%	0.023
%RSD		4.688	3.123	0.000	1.494	1.570	1.988	3.502	4.562

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:01	-0.371	0.891	3.278	16.300	28.920	0.024	0.112	0.820
2	19:36:21	-0.466	0.880	3.281	14.420	28.210	0.018	0.093	0.823
3	19:36:40	-0.614	0.823	3.504	14.850	26.470	0.005	0.213	0.776
x		-0.483	0.865	3.354	15.190	27.870	0.016	0.140	0.806
σ		0.123	0.037	0.130	0.986	1.262	0.010	0.064	0.026
%RSD		25.400	4.258	3.863	6.492	4.527	60.890	46.070	3.219

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:01	0.754	3.589	3.868	-0.093	-0.613	0.343	0.000	41.510
2	19:36:21	0.793	3.704	4.168	0.221	-0.411	0.075	0.000	41.470
3	19:36:40	0.593	4.195	4.331	-0.132	-0.710	0.169	0.000	41.410
x		0.713	3.830	4.123	-0.001	-0.578	0.195	0.000	41.460
σ		0.106	0.322	0.235	0.193	0.153	0.136	0.000	0.052
%RSD		14.890	8.408	5.703	15890.000	26.410	69.460	0.000	0.126

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:01	87.624%	0.250	0.299	89.440%	-0.013	-0.012	0.029	0.033
2	19:36:21	88.508%	0.209	0.236	90.400%	-0.014	-0.012	0.018	0.026
3	19:36:40	88.740%	0.158	0.190	89.145%	-0.018	-0.007	0.027	0.043
x		88.291%	0.206	0.242	89.661%	-0.015	-0.010	0.025	0.034
σ		0.589%	0.046	0.054	0.656%	0.002	0.003	0.006	0.009
%RSD		0.667	22.510	22.490	0.732	15.550	25.890	24.300	26.070

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:01	86.888%	0.580	0.386	0.415	46.160	46.220	91.020%	90.684%
2	19:36:21	88.105%	0.467	0.388	0.427	46.380	46.600	92.730%	92.812%
3	19:36:40	88.299%	0.478	0.416	0.384	46.130	46.310	93.027%	92.698%
x		87.764%	0.508	0.397	0.409	46.220	46.380	92.259%	92.065%
σ		0.765%	0.062	0.017	0.022	0.139	0.201	1.083%	1.197%
%RSD		0.871	12.260	4.320	5.393	0.300	0.433	1.174	1.300

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:36:01	0.025	0.020	0.025	0.026	0.021	88.628%
2	19:36:21	0.026	0.022	0.015	0.037	0.023	88.423%
3	19:36:40	0.017	0.020	0.022	0.025	0.017	87.114%
x		0.023	0.021	0.021	0.029	0.021	88.055%
σ		0.005	0.001	0.005	0.007	0.003	0.821%
%RSD		20.210	4.655	24.030	23.270	13.810	0.933

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:51	41.686%	0.106	1.884	1.548	0.000	4334.000	3931.000	3820.000
2	19:40:10	12.628%	-0.081	3.363	1.490	0.000	4467.000	3547.000	3821.000
3	19:40:29	11.745%	0.133	0.337	1.619	0.000	2655.000	2158.000	2203.000
x		22.020%	0.053	1.862	1.552	0.000	3819.000	3212.000	3281.000
σ		17.037%	0.116	1.513	0.065	0.000	1010.000	932.600	933.800
%RSD		77.372	221.400	81.300	4.161	0.000	26.450	29.030	28.460

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:51	2.580	4875.000	0.000	1935.000	20880.000	26600.000	78.852%	0.954
2	19:40:10	1.601	4853.000	0.000	5661.000	38130.000	35360.000	82.636%	0.703
3	19:40:29	-0.064	2856.000	0.000	6703.000	48270.000	38730.000	79.829%	0.714
x		1.372	4194.000	0.000	4767.000	35760.000	33560.000	80.439%	0.790
σ		1.337	1159.000	0.000	2507.000	13850.000	6261.000	1.964%	0.142
%RSD		97.410	27.640	0.000	52.590	38.730	18.660	2.442	17.920

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:51	-1.244	0.403	12030.000	22590.000	22800.000	48.010	3.104	0.520
2	19:40:10	0.227	0.380	11680.000	21780.000	21330.000	43.790	2.787	0.476
3	19:40:29	-1.029	0.472	12050.000	22640.000	22390.000	45.650	2.692	0.421
x		-0.682	0.418	11920.000	22340.000	22170.000	45.820	2.861	0.472
σ		0.795	0.048	210.200	485.000	756.700	2.114	0.216	0.049
%RSD		116.500	11.420	1.763	2.171	3.412	4.614	7.533	10.460

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:51	0.530	14.000	12.790	0.711	-0.481	0.208	0.000	255.600
2	19:40:10	0.393	12.100	11.990	0.039	-0.736	-0.015	0.000	246.700
3	19:40:29	0.489	12.810	13.190	0.176	-0.263	-0.099	0.000	244.300
x		0.471	12.970	12.660	0.309	-0.493	0.031	0.000	248.900
σ		0.070	0.962	0.611	0.355	0.237	0.159	0.000	5.953
%RSD		14.910	7.416	4.829	115.100	47.990	505.700	0.000	2.392

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:51	85.420%	1.490	1.414	84.888%	-0.003	0.007	-0.040	-0.034
2	19:40:10	86.138%	1.364	1.442	84.059%	0.003	-0.006	0.010	0.007
3	19:40:29	88.066%	1.435	1.362	84.638%	-0.001	0.000	-0.026	-0.027
x		86.542%	1.430	1.406	84.528%	-0.000	0.000	-0.019	-0.018
σ		1.368%	0.063	0.041	0.425%	0.003	0.006	0.026	0.022
%RSD		1.581	4.428	2.920	0.503	1640.000	1336.000	134.700	123.200

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:51	82.468%	0.263	0.041	0.045	429.100	426.800	85.726%	85.070%
2	19:40:10	83.288%	0.239	0.033	0.033	427.500	425.800	87.073%	86.309%
3	19:40:29	84.057%	0.209	0.031	0.040	430.900	429.400	89.102%	88.331%
x		83.271%	0.237	0.035	0.039	429.100	427.300	87.300%	86.570%
σ		0.794%	0.027	0.005	0.006	1.687	1.856	1.699%	1.646%
%RSD		0.954	11.430	14.870	15.950	0.393	0.434	1.947	1.902

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:39:51	0.589	0.630	0.306	0.212	0.197	32.254%
2	19:40:10	1.579	1.873	0.770	0.321	0.350	11.114%
3	19:40:29	2.727	2.804	1.069	0.385	0.437	7.227%
x		1.632	1.769	0.715	0.306	0.328	16.865%
σ		1.070	1.091	0.384	0.088	0.121	13.469%
%RSD		65.590	61.650	53.780	28.620	36.970	79.862

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:43:40	92.779%	0.051	3.491	3.987	0.000	3183.000	2899.000	3010.000
2	19:44:00	92.832%	0.153	2.413	2.849	0.000	3091.000	2814.000	2911.000
3	19:44:19	87.122%	0.183	2.651	3.280	0.000	2982.000	2772.000	2941.000
x		90.911%	0.129	2.851	3.372	0.000	3085.000	2829.000	2954.000
σ		3.282%	0.069	0.566	0.575	0.000	100.300	64.870	50.660
%RSD		3.610	53.780	19.860	17.040	0.000	3.252	2.293	1.715

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:43:40	41.080	3333.000	0.000	4536.000	10550.000	9860.000	82.304%	2.295
2	19:44:00	41.110	3173.000	0.000	4486.000	10850.000	10030.000	81.374%	2.348
3	19:44:19	40.560	3227.000	0.000	4556.000	11140.000	10190.000	80.337%	1.831
x		40.920	3245.000	0.000	4526.000	10850.000	10030.000	81.338%	2.158
σ		0.307	81.080	0.000	36.030	296.800	165.700	0.984%	0.284
%RSD		0.749	2.499	0.000	0.796	2.736	1.652	1.209	13.180

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:43:40	0.070	0.606	2773.000	818.300	817.100	13.340	0.946	0.953
2	19:44:00	-0.223	0.629	2835.000	824.200	825.200	13.430	1.004	0.890
3	19:44:19	0.497	0.697	2863.000	821.600	827.100	13.730	0.953	0.734
x		0.115	0.644	2824.000	821.300	823.100	13.500	0.967	0.859
σ		0.362	0.047	45.910	2.959	5.281	0.204	0.032	0.113
%RSD		315.000	7.357	1.626	0.360	0.642	1.509	3.293	13.110

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:43:40	0.983	23.350	23.630	0.569	-0.923	0.174	0.000	94.400
2	19:44:00	0.881	23.400	23.180	-0.384	-0.937	0.450	0.000	95.510
3	19:44:19	0.848	23.360	24.450	0.072	-0.758	0.361	0.000	96.190
x		0.904	23.370	23.750	0.086	-0.872	0.329	0.000	95.370
σ		0.071	0.028	0.647	0.477	0.100	0.141	0.000	0.904
%RSD		7.801	0.119	2.723	553.900	11.420	42.810	0.000	0.949

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:43:40	92.347%	0.103	0.125	85.767%	0.016	0.027	0.135	0.170
2	19:44:00	93.113%	0.167	0.148	85.737%	0.029	0.027	0.181	0.168
3	19:44:19	92.337%	0.169	0.126	84.898%	0.023	0.032	0.168	0.167
x		92.599%	0.146	0.133	85.467%	0.023	0.029	0.162	0.168
σ		0.445%	0.038	0.013	0.493%	0.006	0.003	0.024	0.002
%RSD		0.481	25.840	9.884	0.577	27.430	10.900	14.930	0.913

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:43:40	84.221%	0.169	0.063	0.071	327.700	324.600	91.697%	91.848%
2	19:44:00	86.316%	0.156	0.105	0.077	326.400	325.300	93.178%	94.166%
3	19:44:19	87.419%	0.166	0.097	0.072	325.900	320.700	94.341%	95.999%
x		85.985%	0.164	0.088	0.073	326.700	323.500	93.072%	94.004%
σ		1.624%	0.007	0.022	0.003	0.899	2.490	1.325%	2.080%
%RSD		1.889	4.246	24.870	3.837	0.275	0.769	1.424	2.212

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:43:40	0.097	0.084	0.142	0.117	0.125	89.336%
2	19:44:00	0.071	0.083	0.121	0.132	0.125	89.885%
3	19:44:19	0.097	0.091	0.123	0.125	0.125	90.829%
x		0.088	0.086	0.129	0.124	0.125	90.017%
σ		0.015	0.004	0.012	0.007	0.000	0.755%
%RSD		17.090	5.096	9.157	5.937	0.191	0.839

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:29	92.483%	-0.037	9.746	10.230	0.000	32750.000	13700.000	14150.000
2	19:47:48	85.521%	-0.034	7.747	10.110	0.000	33620.000	14190.000	14700.000
3	19:48:07	91.728%	-0.036	10.020	10.480	0.000	33860.000	14060.000	14520.000
x		89.911%	-0.036	9.172	10.280	0.000	33410.000	13990.000	14450.000
σ		3.820%	0.002	1.242	0.192	0.000	581.800	254.100	282.300
%RSD		4.249	5.047	13.540	1.868	0.000	1.741	1.817	1.953
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:29	2.630	9154.000	0.000	6628.000	46260.000	47260.000	83.866%	0.855
2	19:47:48	3.364	10150.000	0.000	6944.000	48910.000	49270.000	82.581%	0.938
3	19:48:07	2.890	9397.000	0.000	6931.000	49230.000	48950.000	80.388%	0.878
x		2.961	9566.000	0.000	6834.000	48130.000	48490.000	82.279%	0.890
σ		0.372	518.500	0.000	178.800	1633.000	1079.000	1.759%	0.042
%RSD		12.560	5.420	0.000	2.616	3.392	2.225	2.137	4.766
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:29	-0.560	1.193	1230.000	26690.000	26170.000	6.571	0.702	0.911
2	19:47:48	0.114	1.123	1229.000	26230.000	25440.000	6.524	0.621	0.889
3	19:48:07	-0.584	1.031	1224.000	26990.000	26260.000	6.500	0.587	0.981
x		-0.343	1.115	1228.000	26640.000	25960.000	6.532	0.637	0.927
σ		0.396	0.081	3.119	378.700	451.400	0.036	0.059	0.048
%RSD		115.400	7.285	0.254	1.422	1.739	0.552	9.296	5.170
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:29	0.950	4.677	4.358	1.565	-0.106	0.675	0.000	362.100
2	19:47:48	0.808	4.455	5.210	0.614	-0.242	0.800	0.000	365.400
3	19:48:07	0.920	4.573	4.573	1.341	0.010	0.871	0.000	364.300
x		0.893	4.568	4.714	1.173	-0.113	0.782	0.000	363.900
σ		0.075	0.111	0.443	0.497	0.126	0.099	0.000	1.696
%RSD		8.415	2.439	9.397	42.360	111.700	12.690	0.000	0.466
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:29	84.772%	16.620	16.530	84.635%	-0.015	-0.007	-0.005	-0.002
2	19:47:48	84.824%	17.190	16.870	85.512%	-0.011	-0.010	0.036	0.041
3	19:48:07	86.621%	17.160	16.700	86.093%	-0.015	-0.011	0.008	0.002
x		85.406%	16.990	16.700	85.414%	-0.014	-0.009	0.013	0.013
σ		1.053%	0.319	0.172	0.734%	0.002	0.002	0.021	0.024
%RSD		1.232	1.876	1.030	0.859	17.180	21.420	163.100	176.800
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:47:29	85.409%	0.507	0.141	0.145	966.500	961.600	92.951%	93.852%
2	19:47:48	86.654%	0.568	0.136	0.169	958.800	960.500	94.406%	95.258%
3	19:48:07	87.556%	0.553	0.141	0.146	969.300	966.300	96.772%	97.934%
x		86.540%	0.543	0.139	0.153	964.900	962.800	94.710%	95.681%
σ		1.078%	0.032	0.002	0.014	5.463	3.060	1.928%	2.074%
%RSD		1.246	5.803	1.771	9.028	0.566	0.318	2.036	2.167
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:47:29	0.013	0.009	0.066	0.064	0.071	91.413%		
2	19:47:48	0.012	0.010	0.073	0.045	0.061	91.835%		
3	19:48:07	0.018	0.012	0.058	0.074	0.066	93.441%		
x		0.014	0.010	0.066	0.061	0.066	92.230%		
σ		0.003	0.001	0.007	0.015	0.005	1.070%		
%RSD		23.700	14.530	11.290	24.350	7.504	1.161		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:15	115.274%	-0.023	44.500	43.780	0.000	126100.000	14570.000	14890.000
2	19:51:34	121.196%	-0.059	40.240	42.790	0.000	125200.000	14530.000	14740.000
3	19:51:53	111.201%	0.003	45.090	45.190	0.000	132300.000	15410.000	15620.000
x		115.890%	-0.026	43.280	43.920	0.000	127900.000	14840.000	15080.000
σ		5.026%	0.031	2.644	1.207	0.000	3860.000	496.500	469.000
%RSD		4.337	120.100	6.109	2.748	0.000	3.018	3.346	3.110
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:15	0.305	-117.600	0.000	5108.000	6303.000	5870.000	119.288%	0.012
2	19:51:34	0.026	-117.500	0.000	5050.000	6400.000	5938.000	116.319%	-0.025
3	19:51:53	0.380	-116.300	0.000	5224.000	6600.000	6057.000	115.899%	-0.005
x		0.237	-117.100	0.000	5127.000	6434.000	5955.000	117.169%	-0.006
σ		0.186	0.735	0.000	88.600	151.200	94.690	1.848%	0.019
%RSD		78.600	0.627	0.000	1.728	2.350	1.590	1.577	309.600
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:15	0.008	-0.001	2.570	11.470	25.600	0.009	0.088	0.717
2	19:51:34	-0.029	0.003	2.567	9.906	24.550	0.010	0.027	0.685
3	19:51:53	0.040	0.013	2.622	7.417	21.510	0.013	0.058	0.736
x		0.007	0.005	2.587	9.599	23.890	0.011	0.058	0.713
σ		0.035	0.007	0.031	2.046	2.125	0.002	0.031	0.026
%RSD		533.100	142.100	1.194	21.310	8.897	20.410	53.440	3.624
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:15	0.018	0.280	0.511	0.198	0.340	0.842	0.000	95.410
2	19:51:34	0.031	0.411	0.552	0.214	0.402	0.691	0.000	96.770
3	19:51:53	-0.019	0.477	0.744	0.257	0.817	0.714	0.000	96.590
x		0.010	0.390	0.603	0.223	0.520	0.749	0.000	96.260
σ		0.026	0.100	0.124	0.030	0.259	0.081	0.000	0.736
%RSD		264.800	25.760	20.640	13.640	49.870	10.860	0.000	0.765
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:15	104.930%	0.435	0.431	105.215%	-0.024	-0.020	0.022	0.021
2	19:51:34	105.237%	0.448	0.430	105.278%	-0.025	-0.016	0.079	0.052
3	19:51:53	105.669%	0.424	0.393	105.375%	-0.019	-0.020	0.058	0.043
x		105.279%	0.436	0.418	105.289%	-0.022	-0.019	0.053	0.038
σ		0.371%	0.012	0.022	0.081%	0.003	0.002	0.029	0.016
%RSD		0.353	2.784	5.246	0.077	13.450	11.250	53.860	41.760
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:51:15	99.918%	-0.183	-0.021	-0.021	0.487	0.515	98.518%	97.774%
2	19:51:34	100.386%	-0.182	-0.030	-0.031	0.435	0.469	99.811%	98.589%
3	19:51:53	102.038%	-0.200	-0.030	-0.038	0.458	0.479	100.607%	100.378%
x		100.780%	-0.188	-0.027	-0.030	0.460	0.488	99.646%	98.914%
σ		1.114%	0.010	0.005	0.009	0.026	0.024	1.054%	1.332%
%RSD		1.105	5.298	17.770	28.400	5.669	4.972	1.058	1.347
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:51:15	0.001	-0.002	0.035	0.018	0.023	92.900%		
2	19:51:34	-0.000	-0.000	0.037	0.014	0.026	92.869%		
3	19:51:53	0.003	-0.002	0.018	0.011	0.024	92.840%		
x		0.001	-0.001	0.030	0.014	0.024	92.869%		
σ		0.001	0.001	0.011	0.003	0.002	0.030%		
%RSD		129.000	62.790	36.210	23.820	6.789	0.033		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:01	129.012%	0.055	9.186	8.568	0.000	25800.000	2868.000	2843.000
2	19:55:21	123.553%	-0.026	8.474	8.885	0.000	25410.000	2846.000	2925.000
3	19:55:40	78.741%	0.036	7.929	8.666	0.000	22890.000	2456.000	2395.000
x		110.435%	0.022	8.530	8.706	0.000	24700.000	2723.000	2721.000
σ		27.584%	0.043	0.630	0.163	0.000	1576.000	231.300	285.100
%RSD		24.977	197.400	7.391	1.867	0.000	6.383	8.493	10.480
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:01	1.218	-128.400	0.000	991.100	1253.000	1131.000	124.488%	0.009
2	19:55:21	1.409	-127.800	0.000	1003.000	1277.000	1151.000	124.182%	0.028
3	19:55:40	0.955	-128.900	0.000	776.700	987.200	922.100	103.078%	0.035
x		1.194	-128.400	0.000	923.700	1173.000	1068.000	117.249%	0.024
σ		0.228	0.532	0.000	127.500	161.100	126.500	12.274%	0.013
%RSD		19.070	0.415	0.000	13.800	13.740	11.850	10.468	54.660
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:01	-0.077	0.013	0.612	5.646	8.735	0.003	-0.014	0.142
2	19:55:21	0.016	-0.015	0.615	4.221	7.590	0.002	0.019	0.123
3	19:55:40	-0.010	0.053	0.658	9.996	8.697	-0.000	0.003	0.137
x		-0.024	0.017	0.628	6.621	8.341	0.001	0.003	0.134
σ		0.048	0.034	0.026	3.008	0.650	0.001	0.017	0.010
%RSD		203.000	203.900	4.095	45.430	7.799	93.080	591.400	7.599
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:01	0.002	-0.138	0.188	0.032	0.582	0.217	0.000	19.290
2	19:55:21	0.017	0.191	-0.031	0.094	0.656	0.297	0.000	19.150
3	19:55:40	0.073	0.075	0.475	0.135	0.788	0.331	0.000	18.910
x		0.031	0.043	0.211	0.087	0.675	0.282	0.000	19.120
σ		0.037	0.167	0.253	0.052	0.105	0.059	0.000	0.190
%RSD		121.800	391.100	120.300	59.150	15.510	20.840	0.000	0.995
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:01	101.825%	0.087	0.108	104.305%	-0.014	-0.011	0.088	0.068
2	19:55:21	103.388%	0.076	0.087	104.808%	-0.019	-0.007	0.009	0.004
3	19:55:40	105.452%	0.110	0.084	106.908%	-0.015	-0.014	0.050	0.042
x		103.555%	0.091	0.093	105.340%	-0.016	-0.011	0.049	0.038
σ		1.819%	0.017	0.013	1.381%	0.003	0.004	0.039	0.032
%RSD		1.757	19.130	13.960	1.311	18.050	34.480	79.580	84.660
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:01	95.180%	-0.192	-0.060	-0.052	0.128	0.165	89.858%	87.641%
2	19:55:21	97.902%	-0.171	-0.058	-0.063	0.130	0.090	92.567%	90.061%
3	19:55:40	99.075%	-0.156	-0.050	-0.053	0.086	0.084	93.663%	91.734%
x		97.386%	-0.173	-0.056	-0.056	0.115	0.113	92.029%	89.812%
σ		1.998%	0.018	0.005	0.006	0.025	0.045	1.959%	2.058%
%RSD		2.052	10.290	9.136	11.600	21.440	40.130	2.128	2.291
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:55:01	0.002	0.000	0.010	-0.005	0.002	85.008%		
2	19:55:21	0.002	-0.001	-0.003	-0.002	0.000	84.233%		
3	19:55:40	0.007	0.003	0.016	0.006	0.018	60.129%		
x		0.004	0.001	0.008	-0.000	0.007	76.457%		
σ		0.003	0.002	0.010	0.006	0.010	14.146%		
%RSD		79.200	226.500	131.600	2132.000	148.000	18.502		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:49	118.419%	1.008	63.830	62.160	0.000	131200.000	16100.000	16310.000
2	19:59:08	109.774%	1.016	67.500	65.710	0.000	134700.000	16590.000	16860.000
3	19:59:27	110.950%	0.996	67.700	63.340	0.000	130900.000	16260.000	16590.000
x		113.048%	1.007	66.340	63.740	0.000	132200.000	16320.000	16590.000
σ		4.689%	0.011	2.182	1.807	0.000	2119.000	247.200	276.100
%RSD		4.148	1.052	3.289	2.836	0.000	1.602	1.515	1.664
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:49	38.450	74.600	0.000	6174.000	7250.000	6877.000	118.113%	17.930
2	19:59:08	38.590	75.300	0.000	6338.000	7455.000	7002.000	115.086%	18.250
3	19:59:27	38.820	73.670	0.000	6413.000	7816.000	7229.000	112.515%	19.490
x		38.620	74.520	0.000	6309.000	7507.000	7036.000	115.238%	18.560
σ		0.186	0.817	0.000	122.400	286.400	178.400	2.802%	0.823
%RSD		0.481	1.097	0.000	1.940	3.815	2.535	2.431	4.436
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:49	9.297	3.847	11.730	22.240	40.410	9.459	9.767	5.646
2	19:59:08	9.473	3.727	11.770	22.140	37.380	9.583	9.837	5.629
3	19:59:27	9.632	3.924	11.850	22.490	38.200	9.479	10.330	5.867
x		9.467	3.833	11.780	22.290	38.660	9.507	9.977	5.714
σ		0.168	0.099	0.061	0.182	1.566	0.067	0.305	0.133
%RSD		1.773	2.584	0.520	0.819	4.050	0.701	3.060	2.324
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:49	4.772	9.462	10.450	1.067	0.874	1.642	0.000	120.100
2	19:59:08	4.821	9.428	9.633	0.986	0.962	1.268	0.000	119.400
3	19:59:27	4.918	9.850	9.848	1.113	0.667	1.228	0.000	120.000
x		4.837	9.580	9.979	1.055	0.834	1.379	0.000	119.800
σ		0.074	0.234	0.426	0.065	0.151	0.228	0.000	0.388
%RSD		1.529	2.445	4.265	6.119	18.140	16.560	0.000	0.323
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:49	98.915%	20.380	19.960	99.499%	0.924	0.922	1.053	0.900
2	19:59:08	101.360%	20.010	19.910	100.776%	0.911	0.925	0.994	0.955
3	19:59:27	101.743%	19.990	19.980	101.369%	0.917	0.916	0.988	0.843
x		100.672%	20.130	19.950	100.548%	0.918	0.921	1.012	0.899
σ		1.534%	0.218	0.038	0.956%	0.006	0.004	0.036	0.056
%RSD		1.524	1.084	0.188	0.950	0.703	0.487	3.555	6.251
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:58:49	93.324%	37.690	9.865	9.804	39.020	38.610	89.060%	87.456%
2	19:59:08	95.705%	38.170	9.967	9.771	38.820	39.310	92.508%	91.733%
3	19:59:27	96.652%	37.810	9.851	9.969	39.200	38.850	95.841%	94.365%
x		95.227%	37.890	9.894	9.848	39.010	38.930	92.470%	91.185%
σ		1.715%	0.251	0.063	0.106	0.190	0.355	3.391%	3.487%
%RSD		1.801	0.662	0.638	1.078	0.488	0.911	3.667	3.824
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:58:49	0.938	0.992	0.425	0.419	0.421	90.644%		
2	19:59:08	0.984	1.035	0.442	0.457	0.443	92.093%		
3	19:59:27	1.071	1.050	0.453	0.475	0.465	92.239%		
x		0.998	1.026	0.440	0.450	0.443	91.659%		
σ		0.068	0.030	0.014	0.028	0.022	0.882%		
%RSD		6.784	2.914	3.200	6.292	4.907	0.962		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:36	119.916%	0.972	66.030	64.710	0.000	132800.000	16110.000	16170.000
2	20:02:55	120.576%	0.933	62.480	66.540	0.000	135500.000	16010.000	16760.000
3	20:03:14	118.617%	0.996	57.620	62.340	0.000	133200.000	16320.000	16330.000
x		119.703%	0.967	62.040	64.530	0.000	133800.000	16150.000	16420.000
σ		0.996%	0.032	4.225	2.104	0.000	1427.000	156.100	303.800
%RSD		0.832	3.280	6.809	3.261	0.000	1.066	0.967	1.851
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:36	37.090	72.470	0.000	6013.000	7262.000	6752.000	120.659%	18.310
2	20:02:55	37.710	80.340	0.000	6110.000	7411.000	6861.000	120.720%	18.210
3	20:03:14	36.380	74.460	0.000	6158.000	7716.000	7052.000	117.597%	18.710
x		37.060	75.750	0.000	6094.000	7463.000	6888.000	119.659%	18.410
σ		0.662	4.095	0.000	73.570	231.600	152.000	1.786%	0.264
%RSD		1.785	5.405	0.000	1.207	3.103	2.206	1.492	1.433
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:36	9.259	3.807	11.290	22.900	39.780	9.514	9.868	5.677
2	20:02:55	9.391	3.654	11.290	20.670	37.050	9.240	9.787	5.640
3	20:03:14	9.584	3.859	11.770	22.920	37.460	9.702	10.120	5.843
x		9.411	3.773	11.450	22.160	38.100	9.486	9.925	5.720
σ		0.164	0.107	0.281	1.292	1.471	0.233	0.174	0.108
%RSD		1.739	2.821	2.453	5.829	3.861	2.451	1.751	1.889
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:36	5.070	9.531	9.531	0.937	0.410	1.164	0.000	116.100
2	20:02:55	4.740	9.505	9.409	1.092	0.436	1.078	0.000	116.100
3	20:03:14	5.055	9.397	9.618	1.031	0.876	1.205	0.000	116.100
x		4.955	9.478	9.519	1.020	0.574	1.149	0.000	116.100
σ		0.187	0.071	0.105	0.078	0.262	0.065	0.000	0.020
%RSD		3.770	0.747	1.103	7.675	45.600	5.655	0.000	0.017
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:36	103.403%	19.460	19.490	103.486%	0.925	0.947	1.000	0.909
2	20:02:55	105.469%	19.860	19.960	104.789%	0.933	0.922	0.876	0.893
3	20:03:14	105.736%	20.270	19.930	105.632%	0.893	0.901	1.092	0.946
x		104.869%	19.860	19.790	104.636%	0.917	0.923	0.989	0.916
σ		1.277%	0.404	0.262	1.081%	0.021	0.023	0.109	0.027
%RSD		1.218	2.036	1.323	1.034	2.267	2.514	10.970	2.955
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:02:36	97.010%	37.080	9.536	9.592	38.070	37.840	95.030%	94.331%
2	20:02:55	99.413%	37.020	9.560	9.672	38.570	38.220	97.379%	97.173%
3	20:03:14	101.698%	37.500	9.573	9.491	37.980	37.640	100.002%	99.198%
x		99.373%	37.200	9.556	9.585	38.210	37.900	97.470%	96.900%
σ		2.344%	0.259	0.019	0.091	0.319	0.296	2.487%	2.445%
%RSD		2.359	0.697	0.201	0.945	0.834	0.780	2.552	2.523
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:02:36	0.949	1.011	0.383	0.407	0.388	99.661%		
2	20:02:55	1.002	1.049	0.407	0.382	0.412	98.668%		
3	20:03:14	1.059	1.062	0.427	0.437	0.434	98.169%		
x		1.004	1.041	0.406	0.409	0.411	98.832%		
σ		0.055	0.026	0.022	0.027	0.023	0.760%		
%RSD		5.489	2.545	5.439	6.656	5.623	0.769		

180-43250-G-28-A PDS@50 5/7/2015 8:06:04 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:23	126.579%	0.941	58.840	60.640	0.000	122800.000	14960.000	15060.000
2	20:06:42	116.501%	0.849	61.510	58.690	0.000	125400.000	15270.000	15760.000
3	20:07:02	116.129%	0.992	64.260	63.060	0.000	128100.000	15510.000	15600.000
x		119.736%	0.927	61.540	60.800	0.000	125400.000	15250.000	15470.000
σ		5.929%	0.072	2.710	2.190	0.000	2679.000	272.600	366.400
%RSD		4.951	7.774	4.403	3.603	0.000	2.136	1.788	2.368
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:23	46.690	81.420	0.000	5765.000	7005.000	6455.000	121.034%	19.820
2	20:06:42	49.650	91.680	0.000	5925.000	7165.000	6570.000	122.712%	19.580
3	20:07:02	48.540	90.800	0.000	5959.000	7199.000	6621.000	120.911%	20.180
x		48.300	87.960	0.000	5883.000	7123.000	6549.000	121.552%	19.860
σ		1.493	5.687	0.000	103.700	103.500	85.370	1.006%	0.303
%RSD		3.092	6.465	0.000	1.763	1.453	1.304	0.828	1.525
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:23	9.396	3.786	11.480	24.370	38.650	9.773	10.310	5.706
2	20:06:42	9.720	3.868	11.520	23.500	36.920	9.700	10.050	5.555
3	20:07:02	9.529	3.716	11.530	23.370	37.730	9.565	10.080	5.708
x		9.548	3.790	11.510	23.750	37.770	9.679	10.150	5.656
σ		0.163	0.076	0.030	0.545	0.861	0.106	0.145	0.088
%RSD		1.705	2.016	0.264	2.297	2.281	1.090	1.426	1.553
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:23	5.092	9.910	9.812	0.933	0.625	0.839	0.000	109.200
2	20:06:42	5.162	9.501	9.988	1.000	0.626	1.064	0.000	109.300
3	20:07:02	5.012	9.968	9.867	1.043	0.613	1.216	0.000	108.900
x		5.089	9.793	9.889	0.992	0.621	1.040	0.000	109.100
σ		0.075	0.255	0.090	0.056	0.008	0.190	0.000	0.176
%RSD		1.469	2.600	0.909	5.630	1.223	18.240	0.000	0.162
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:23	106.061%	20.770	20.630	105.680%	0.983	0.973	1.008	0.836
2	20:06:42	107.587%	20.990	21.190	106.375%	1.002	1.013	1.009	0.899
3	20:07:02	109.226%	21.110	21.290	108.231%	0.893	0.972	1.152	0.890
x		107.625%	20.960	21.030	106.762%	0.959	0.986	1.056	0.875
σ		1.583%	0.176	0.356	1.319%	0.058	0.023	0.083	0.034
%RSD		1.471	0.840	1.691	1.235	6.060	2.348	7.819	3.910
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:23	100.618%	39.010	9.721	9.781	37.720	37.750	97.277%	96.039%
2	20:06:42	101.445%	40.120	9.859	10.290	38.730	38.360	99.331%	99.195%
3	20:07:02	103.036%	39.670	9.874	9.838	38.530	37.950	103.283%	100.621%
x		101.700%	39.600	9.818	9.971	38.330	38.020	99.964%	98.618%
σ		1.229%	0.554	0.084	0.280	0.535	0.311	3.053%	2.345%
%RSD		1.209	1.398	0.856	2.812	1.397	0.818	3.054	2.378
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:06:23	0.990	1.079	0.429	0.429	0.425	102.991%		
2	20:06:42	1.049	1.065	0.442	0.451	0.445	102.093%		
3	20:07:02	1.083	1.139	0.463	0.493	0.462	100.446%		
x		1.040	1.094	0.445	0.458	0.444	101.843%		
σ		0.047	0.039	0.017	0.033	0.019	1.291%		
%RSD		4.536	3.577	3.767	7.164	4.201	1.268		

180-43250-G-29-A@50 5/7/2015 8:09:52 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:11	122.153%	-0.048	46.240	44.670	0.000	122900.000	14450.000	14430.000
2	20:10:31	125.824%	0.058	45.100	44.490	0.000	124800.000	14810.000	14740.000
3	20:10:50	121.986%	-0.004	43.820	45.390	0.000	124200.000	14790.000	14870.000
x		123.321%	0.002	45.060	44.850	0.000	124000.000	14680.000	14680.000
σ		2.169%	0.053	1.209	0.481	0.000	965.800	205.000	225.500
%RSD		1.759	2565.000	2.684	1.073	0.000	0.779	1.396	1.536

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:11	1.351	-84.870	0.000	4729.000	4795.000	4410.000	129.793%	0.006
2	20:10:31	1.133	-85.120	0.000	4845.000	4784.000	4531.000	124.289%	0.037
3	20:10:50	1.123	-85.750	0.000	4825.000	5067.000	4575.000	124.696%	-0.000
x		1.202	-85.250	0.000	4800.000	4882.000	4505.000	126.259%	0.014
σ		0.128	0.455	0.000	61.810	160.500	85.590	3.067%	0.020
%RSD		10.680	0.534	0.000	1.288	3.288	1.900	2.429	137.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:11	0.053	0.014	1.362	5.053	13.640	0.007	0.021	0.674
2	20:10:31	0.083	-0.012	1.358	5.864	14.720	0.008	0.026	0.759
3	20:10:50	0.052	0.008	1.372	5.800	14.430	0.009	0.042	0.774
x		0.063	0.003	1.364	5.573	14.270	0.008	0.030	0.736
σ		0.017	0.013	0.007	0.451	0.560	0.001	0.011	0.054
%RSD		27.780	449.400	0.504	8.088	3.929	13.090	37.410	7.360

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:11	0.088	-0.156	-0.088	0.254	0.844	0.872	0.000	83.430
2	20:10:31	0.070	-0.069	0.036	0.220	0.514	0.714	0.000	83.560
3	20:10:50	0.083	-0.279	-0.082	0.281	0.365	0.849	0.000	83.680
x		0.080	-0.168	-0.045	0.252	0.574	0.812	0.000	83.560
σ		0.009	0.106	0.070	0.031	0.245	0.086	0.000	0.121
%RSD		11.460	62.900	156.700	12.290	42.730	10.540	0.000	0.145

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:11	104.022%	0.554	0.555	104.813%	-0.010	-0.015	0.043	0.024
2	20:10:31	105.767%	0.542	0.584	106.754%	-0.018	-0.012	0.095	0.063
3	20:10:50	106.145%	0.509	0.496	106.063%	-0.011	-0.014	0.048	0.032
x		105.311%	0.535	0.545	105.877%	-0.013	-0.014	0.062	0.040
σ		1.133%	0.024	0.045	0.984%	0.005	0.002	0.029	0.020
%RSD		1.075	4.440	8.280	0.929	35.360	11.380	46.540	51.010

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:11	97.631%	0.314	0.024	0.031	1.213	1.118	91.668%	90.697%
2	20:10:31	99.292%	0.218	0.047	0.036	1.209	1.176	95.340%	93.221%
3	20:10:50	99.583%	0.197	0.012	0.034	1.336	1.195	95.677%	94.610%
x		98.835%	0.243	0.027	0.034	1.253	1.163	94.229%	92.843%
σ		1.053%	0.063	0.018	0.003	0.072	0.040	2.224%	1.984%
%RSD		1.066	25.690	65.380	8.152	5.741	3.471	2.360	2.137

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:11	0.006	0.005	0.000	-0.012	-0.006	93.995%
2	20:10:31	0.008	0.002	-0.009	-0.001	-0.005	91.666%
3	20:10:50	0.008	0.004	-0.012	-0.008	-0.012	90.166%
x		0.007	0.004	-0.007	-0.007	-0.008	91.942%
σ		0.001	0.002	0.006	0.006	0.004	1.930%
%RSD		16.300	38.670	92.980	81.150	50.950	2.099

CCV 1558997 5/7/2015 8:13:48 PM QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:48	32.249%	92.210	93.290	83.970	0.000	31950.000	30250.000	29910.000
2	20:14:08	17.481%	84.010	69.120	76.160	0.000	28830.000	27360.000	26400.000
3	20:14:27	25.884%	93.430	79.320	83.660	0.000	31310.000	27970.000	27560.000
x		25.205%	89.882%	80.575%	81.264%	0.000	61.390%	57.050%	55.915%
σ		7.407%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		29.387	5.698	15.060	5.440	0.000	5.360	5.352	6.382

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:48	267.500	2891.000	0.000	18440.000	43660.000	37710.000	124.864%	90.790
2	20:14:08	248.300	2500.000	0.000	15730.000	49370.000	47360.000	118.015%	93.100
3	20:14:27	247.000	2524.000	0.000	15390.000	11850.000	20350.000	107.220%	100.400
x		50.849%	52.769%	0.000	33.040%	69.925%	70.278%	116.700%	94.758%
σ		n/a	n/a	0.000	n/a	n/a	n/a	8.895%	n/a
%RSD		4.505	8.295	0.000	10.110	57.820	38.950	7.622	5.286

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:48	93.110	93.190	465.500	23400.000	23410.000	93.840	97.140	96.380
2	20:14:08	97.770	97.880	492.000	24540.000	24810.000	98.700	101.000	99.670
3	20:14:27	105.000	105.400	525.700	26370.000	26420.000	104.200	108.700	107.600
x		98.628%	98.833%	98.882%	99.089%	99.523%	98.916%	102.274%	101.212%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		6.070	6.253	6.100	6.052	6.046	5.245	5.741	5.685

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:48	97.810	94.850	95.310	99.060	101.800	102.400	0.000	93.380
2	20:14:08	99.300	96.620	98.010	100.900	102.900	101.300	0.000	95.400
3	20:14:27	106.600	102.600	104.200	105.400	104.300	104.100	0.000	96.190
x		101.230%	98.017%	99.182%	101.774%	102.991%	102.622%	0.000	94.989%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		4.633	4.135	4.610	3.193	1.207	1.381	0.000	1.524

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:48	98.086%	88.030	87.630	98.460%	92.190	93.680	92.210	93.590
2	20:14:08	99.578%	91.290	90.730	97.805%	95.760	96.270	95.760	95.100
3	20:14:27	100.394%	93.260	93.710	99.804%	94.510	95.800	95.070	96.520
x		99.353%	90.859%	90.689%	98.690%	94.155%	95.250%	94.344%	95.068%
σ		1.171%	n/a	n/a	1.019%	n/a	n/a	n/a	n/a
%RSD		1.178	2.907	3.358	1.032	1.920	1.453	1.996	1.543

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:48	90.945%	91.860	92.210	92.600	94.530	94.160	83.122%	80.439%
2	20:14:08	91.629%	94.560	96.100	96.580	96.980	97.690	85.794%	83.977%
3	20:14:27	93.513%	94.190	97.130	97.260	96.870	95.960	88.880%	86.395%
x		92.029%	93.536%	95.148%	95.481%	96.124%	95.938%	85.932%	83.604%
σ		1.330%	n/a	n/a	n/a	n/a	n/a	2.881%	2.995%
%RSD		1.445	1.562	2.727	2.635	1.441	1.844	3.353	3.583

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:13:48	100.300	102.800	100.200	92.400	68.990	0.000
2	20:14:08	102.500	105.500	102.700	92.600	60.550	0.000
3	20:14:27	102.800	106.100	102.200	102.800	92.690	0.000
x		101.897%	104.813%	101.671%	95.928%	74.075%	0.000
σ		n/a	n/a	n/a	n/a	n/a	0.000
%RSD		1.351	1.653	1.323	6.188	22.490	0.000

CCB4 5/7/2015 8:20:29 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:49	114.061%	-0.034	0.408	0.160	0.000	6.030	2.659	2.719
2	20:21:08	111.830%	0.015	0.294	0.221	0.000	5.973	3.044	2.787
3	20:21:27	109.377%	0.042	0.433	0.401	0.000	5.809	2.648	2.878
x		111.756%	0.008	0.378	0.261	0.000	5.937	2.784	2.795
σ		2.343%	0.038	0.074	0.125	0.000	0.115	0.226	0.080
%RSD		2.096	488.100	19.500	48.020	0.000	1.936	8.106	2.857
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:49	0.578	-127.700	0.000	17.140	12.710	5.120	113.104%	0.046
2	20:21:08	0.571	-127.200	0.000	18.620	14.470	5.608	109.711%	0.039
3	20:21:27	0.518	-127.300	0.000	17.610	6.012	5.218	111.136%	0.007
x		0.556	-127.400	0.000	17.790	11.060	5.315	111.317%	0.031
σ		0.033	0.287	0.000	0.757	4.461	0.258	1.704%	0.021
%RSD		5.949	0.225	0.000	4.257	40.330	4.860	1.531	67.420
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:49	0.011	0.016	0.106	11.020	7.777	0.008	0.024	-0.018
2	20:21:08	0.020	0.018	0.086	11.200	6.908	-0.001	0.010	0.053
3	20:21:27	-0.008	-0.012	0.089	9.707	6.583	0.006	0.004	-0.012
x		0.008	0.007	0.094	10.640	7.089	0.004	0.013	0.008
σ		0.014	0.017	0.011	0.816	0.618	0.005	0.010	0.039
%RSD		186.500	235.800	11.290	7.670	8.713	114.100	80.820	515.700
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:49	-0.017	0.154	0.280	0.013	0.589	0.023	0.000	0.017
2	20:21:08	0.017	0.276	0.195	0.033	0.511	0.113	0.000	0.013
3	20:21:27	0.021	0.110	0.542	0.007	0.558	0.048	0.000	0.020
x		0.007	0.180	0.339	0.018	0.553	0.061	0.000	0.016
σ		0.021	0.086	0.181	0.014	0.039	0.046	0.000	0.003
%RSD		286.400	47.650	53.390	77.230	7.070	75.590	0.000	19.920
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:49	108.564%	0.176	0.184	110.046%	-0.009	-0.005	0.020	0.019
2	20:21:08	110.623%	0.138	0.161	111.197%	-0.006	-0.007	0.060	0.031
3	20:21:27	110.428%	0.132	0.115	112.227%	-0.005	-0.003	0.060	0.047
x		109.872%	0.148	0.154	111.157%	-0.007	-0.005	0.047	0.032
σ		1.137%	0.024	0.035	1.091%	0.002	0.002	0.023	0.014
%RSD		1.035	15.960	22.870	0.982	34.520	34.600	49.660	42.840
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:49	103.593%	-0.162	-0.061	-0.060	-0.002	0.006	93.301%	91.234%
2	20:21:08	103.906%	-0.130	-0.041	-0.052	-0.006	0.011	96.595%	94.286%
3	20:21:27	104.272%	-0.172	-0.042	-0.061	0.026	0.041	98.152%	95.623%
x		103.924%	-0.155	-0.048	-0.058	0.006	0.019	96.016%	93.714%
σ		0.340%	0.022	0.011	0.005	0.017	0.019	2.477%	2.250%
%RSD		0.327	14.400	23.680	8.403	295.800	98.660	2.580	2.400
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:20:49	0.015	0.011	0.003	-0.001	0.004	90.789%		
2	20:21:08	0.008	0.011	0.022	-0.004	0.014	91.951%		
3	20:21:27	0.014	0.011	0.006	0.022	0.010	93.882%		
x		0.012	0.011	0.010	0.006	0.010	92.207%		
σ		0.004	0.000	0.010	0.014	0.005	1.562%		
%RSD		34.000	1.447	94.730	258.500	55.090	1.694		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:24:39	128.679%	0.096	38.190	39.240	0.000	117900.000	13470.000	13750.000
2	20:24:58	125.984%	0.079	36.340	37.480	0.000	117900.000	13570.000	13610.000
3	20:25:17	132.251%	0.184	35.610	38.430	0.000	117400.000	13620.000	13510.000
x		128.971%	0.120	36.710	38.380	0.000	117700.000	13550.000	13630.000
σ		3.144%	0.056	1.329	0.878	0.000	291.700	77.810	121.100
%RSD		2.438	47.020	3.620	2.287	0.000	0.248	0.574	0.889
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:24:39	325.800	-107.000	0.000	4195.000	7438.000	6762.000	131.556%	0.066
2	20:24:58	322.300	-106.800	0.000	4190.000	7565.000	6915.000	130.213%	0.041
3	20:25:17	318.400	-107.300	0.000	4228.000	7522.000	6951.000	129.282%	0.051
x		322.200	-107.000	0.000	4204.000	7508.000	6876.000	130.350%	0.053
σ		3.692	0.259	0.000	20.960	64.570	100.300	1.143%	0.013
%RSD		1.146	0.242	0.000	0.498	0.860	1.459	0.877	24.160
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:24:39	0.027	1.059	4.498	8.205	25.010	0.087	1.965	8.646
2	20:24:58	0.017	1.079	4.517	8.450	24.920	0.110	1.970	8.362
3	20:25:17	-0.060	1.085	4.618	7.810	25.180	0.116	2.102	8.568
x		-0.005	1.074	4.544	8.155	25.040	0.104	2.012	8.525
σ		0.047	0.014	0.064	0.323	0.130	0.016	0.078	0.147
%RSD		914.000	1.281	1.411	3.962	0.519	14.880	3.877	1.720
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:24:39	8.095	4.467	4.672	0.239	0.741	0.859	0.000	98.500
2	20:24:58	7.728	4.374	4.545	0.236	0.329	0.580	0.000	97.960
3	20:25:17	8.126	4.179	4.560	0.208	0.512	0.836	0.000	98.070
x		7.983	4.340	4.592	0.228	0.527	0.758	0.000	98.180
σ		0.221	0.147	0.070	0.017	0.206	0.155	0.000	0.289
%RSD		2.770	3.386	1.519	7.498	39.190	20.450	0.000	0.294
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:24:39	106.397%	0.425	0.448	106.766%	-0.017	-0.006	0.038	0.031
2	20:24:58	108.569%	0.423	0.443	108.017%	-0.011	-0.008	-0.015	-0.012
3	20:25:17	109.946%	0.474	0.475	109.672%	-0.010	-0.006	0.138	0.101
x		108.304%	0.441	0.456	108.152%	-0.012	-0.007	0.053	0.040
σ		1.790%	0.029	0.017	1.458%	0.004	0.001	0.078	0.057
%RSD		1.652	6.518	3.836	1.348	32.650	13.320	145.900	143.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:24:39	98.511%	0.120	0.654	0.693	1.066	1.034	94.292%	92.215%
2	20:24:58	101.490%	0.100	0.653	0.630	1.031	1.012	96.129%	94.454%
3	20:25:17	100.843%	0.100	0.666	0.709	1.219	0.973	97.377%	96.740%
x		100.281%	0.107	0.658	0.677	1.105	1.006	95.933%	94.470%
σ		1.567%	0.011	0.007	0.042	0.100	0.031	1.552%	2.262%
%RSD		1.563	10.620	1.124	6.144	9.071	3.069	1.618	2.395
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:24:39	0.008	0.005	0.129	0.094	0.111	106.329%		
2	20:24:58	0.005	0.005	0.110	0.098	0.116	102.990%		
3	20:25:17	0.009	0.011	0.123	0.100	0.118	100.564%		
x		0.007	0.007	0.121	0.097	0.115	103.294%		
σ		0.002	0.003	0.010	0.003	0.004	2.894%		
%RSD		24.210	44.760	8.103	3.304	3.432	2.802		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:37	122.896%	-0.015	0.136	-0.020	0.000	2.592	0.219	0.194
2	20:31:56	116.579%	-0.035	0.153	0.066	0.000	1.728	0.099	0.188
3	20:32:20	118.497%	-0.047	0.089	0.112	0.000	0.497	-0.033	-0.006
x		119.324%	-0.032	0.126	0.052	0.000	1.606	0.095	0.126
σ		3.239%	0.016	0.033	0.067	0.000	1.053	0.126	0.114
%RSD		2.714	50.030	26.540	128.200	0.000	65.550	132.900	90.500
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:37	-0.955	-131.400	0.000	5.792	-3.450	-3.826	114.434%	-0.044
2	20:31:56	-0.777	-131.800	0.000	5.589	5.806	-3.242	112.156%	0.007
3	20:32:20	-0.911	-131.000	0.000	6.595	-3.114	-3.736	109.737%	-0.033
x		-0.881	-131.400	0.000	5.992	-0.253	-3.601	112.109%	-0.024
σ		0.092	0.372	0.000	0.532	5.250	0.315	2.349%	0.027
%RSD		10.480	0.283	0.000	8.883	2077.000	8.736	2.095	113.400
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:37	-0.034	0.017	0.024	0.217	1.266	-0.002	0.015	-0.055
2	20:31:56	-0.009	0.009	0.019	-0.364	1.168	-0.004	-0.053	-0.038
3	20:32:20	-0.013	0.005	0.006	1.062	1.396	-0.002	-0.040	-0.060
x		-0.018	0.010	0.016	0.305	1.277	-0.002	-0.026	-0.051
σ		0.013	0.006	0.009	0.717	0.114	0.001	0.036	0.012
%RSD		72.060	55.390	56.360	235.300	8.958	44.560	138.500	22.590
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:37	-0.046	-0.481	-0.463	0.035	0.292	-0.122	0.000	-0.001
2	20:31:56	-0.043	-0.409	-0.350	-0.146	0.128	0.005	0.000	-0.005
3	20:32:20	-0.034	-0.358	-0.248	0.099	0.409	0.141	0.000	-0.002
x		-0.041	-0.416	-0.354	-0.004	0.276	0.008	0.000	-0.003
σ		0.006	0.061	0.108	0.127	0.141	0.131	0.000	0.002
%RSD		15.480	14.790	30.360	3047.000	51.110	1665.000	0.000	87.410
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:37	106.530%	0.015	0.019	102.508%	-0.024	-0.021	0.094	0.066
2	20:31:56	107.552%	0.045	0.020	102.937%	-0.027	-0.020	0.006	0.009
3	20:32:20	108.699%	0.012	0.026	103.601%	-0.022	-0.020	0.040	0.030
x		107.594%	0.024	0.022	103.015%	-0.024	-0.020	0.047	0.035
σ		1.085%	0.018	0.004	0.551%	0.003	0.000	0.045	0.029
%RSD		1.008	75.310	18.860	0.534	10.290	1.482	95.200	83.140
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:31:37	94.285%	-0.168	-0.075	-0.076	0.007	-0.012	88.295%	87.072%
2	20:31:56	96.808%	-0.182	-0.070	-0.072	-0.007	0.003	93.346%	91.525%
3	20:32:20	98.911%	-0.158	-0.072	-0.064	-0.016	0.005	94.517%	93.354%
x		96.668%	-0.169	-0.072	-0.071	-0.006	-0.002	92.053%	90.650%
σ		2.316%	0.012	0.003	0.006	0.011	0.009	3.306%	3.231%
%RSD		2.396	7.091	4.018	8.889	205.400	631.000	3.592	3.564
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:31:37	0.005	-0.001	-0.022	-0.013	-0.017	96.206%		
2	20:31:56	0.002	-0.000	-0.012	-0.008	-0.013	97.092%		
3	20:32:20	0.002	-0.001	-0.018	-0.017	-0.015	95.701%		
x		0.003	-0.001	-0.018	-0.013	-0.015	96.333%		
σ		0.002	0.001	0.005	0.004	0.002	0.704%		
%RSD		64.960	80.880	27.500	34.560	14.560	0.731		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:31	114.830%	0.025	0.159	0.096	0.000	-0.200	-0.115	-0.055
2	20:35:50	110.521%	-0.044	-0.084	-0.010	0.000	-0.682	-0.216	-0.168
3	20:36:09	117.003%	0.000	-0.090	0.191	0.000	-1.207	-0.204	-0.044
x		114.118%	-0.007	-0.005	0.092	0.000	-0.696	-0.178	-0.089
σ		3.299%	0.035	0.142	0.101	0.000	0.504	0.055	0.068
%RSD		2.891	537.600	2720.000	109.400	0.000	72.330	30.960	76.730
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:31	-0.938	-130.900	0.000	4.180	-7.258	-3.397	110.619%	-0.033
2	20:35:50	-0.741	-130.900	0.000	2.070	-7.223	-3.731	109.866%	-0.054
3	20:36:09	-0.966	-131.600	0.000	2.252	0.137	-3.079	108.178%	-0.054
x		-0.882	-131.100	0.000	2.834	-4.781	-3.402	109.554%	-0.047
σ		0.122	0.375	0.000	1.169	4.259	0.326	1.250%	0.012
%RSD		13.880	0.286	0.000	41.260	89.080	9.580	1.141	25.040
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:31	0.007	0.020	0.028	0.503	1.431	-0.005	-0.046	-0.061
2	20:35:50	-0.013	-0.001	0.020	0.471	0.329	-0.005	-0.012	-0.061
3	20:36:09	-0.090	0.019	0.014	0.051	0.313	-0.003	-0.012	-0.003
x		-0.032	0.013	0.021	0.342	0.691	-0.004	-0.023	-0.042
σ		0.051	0.012	0.007	0.252	0.641	0.001	0.019	0.034
%RSD		159.800	92.710	34.320	73.810	92.710	26.210	82.980	80.870
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:31	-0.038	-0.271	-0.271	-0.097	-0.155	-0.057	0.000	-0.002
2	20:35:50	-0.050	-0.407	-0.470	-0.111	0.004	-0.049	0.000	-0.003
3	20:36:09	-0.081	-0.455	-0.334	0.008	0.107	-0.066	0.000	-0.001
x		-0.056	-0.378	-0.358	-0.067	-0.015	-0.057	0.000	-0.002
σ		0.022	0.095	0.102	0.065	0.132	0.008	0.000	0.001
%RSD		39.560	25.240	28.340	97.100	902.400	14.740	0.000	45.370
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:31	106.130%	-0.000	0.011	102.319%	-0.024	-0.017	0.045	0.030
2	20:35:50	106.555%	0.028	-0.001	102.832%	-0.026	-0.017	0.015	0.010
3	20:36:09	108.951%	0.001	0.012	103.882%	-0.024	-0.022	0.071	0.055
x		107.212%	0.010	0.007	103.011%	-0.025	-0.019	0.044	0.032
σ		1.521%	0.016	0.007	0.797%	0.001	0.002	0.028	0.022
%RSD		1.418	166.800	103.900	0.773	4.008	12.660	64.940	70.310
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:31	97.465%	-0.184	-0.081	-0.089	0.011	-0.008	94.544%	92.773%
2	20:35:50	98.363%	-0.203	-0.073	-0.083	-0.001	-0.015	95.231%	94.853%
3	20:36:09	100.388%	-0.198	-0.073	-0.085	-0.005	-0.009	96.861%	96.938%
x		98.739%	-0.195	-0.076	-0.086	0.002	-0.011	95.545%	94.855%
σ		1.497%	0.010	0.004	0.003	0.009	0.004	1.190%	2.082%
%RSD		1.517	4.939	5.683	3.177	521.200	34.230	1.245	2.195
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:35:31	-0.000	-0.003	-0.022	-0.011	-0.016	107.051%		
2	20:35:50	0.002	-0.003	-0.015	-0.015	-0.016	104.509%		
3	20:36:09	-0.001	-0.001	-0.021	-0.010	-0.016	103.804%		
x		0.000	-0.002	-0.019	-0.012	-0.016	105.122%		
σ		0.001	0.001	0.003	0.003	0.000	1.708%		
%RSD		1165.000	59.250	18.000	24.310	2.279	1.625		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:11	120.260%	0.970	22.370	22.580	0.000	501.400	506.600	511.000
2	20:43:30	116.971%	1.195	22.520	23.680	0.000	515.800	519.000	520.300
3	20:43:50	113.531%	1.076	22.730	22.930	0.000	530.500	522.100	523.400
x		116.920%	108.007%	112.705%	115.302%	0.000	103.182%	103.182%	103.649%
σ		3.365%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.878	10.400	0.804	2.445	0.000	2.825	1.588	1.242
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:11	35.660	402.900	0.000	514.000	497.000	459.700	118.882%	5.184
2	20:43:30	36.200	406.500	0.000	518.700	525.400	462.100	115.990%	4.872
3	20:43:50	36.250	414.200	0.000	517.900	498.600	465.900	117.441%	4.463
x		120.114%	81.577%	0.000	103.371%	101.395%	92.510%	117.437%	96.798%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.446%	n/a
%RSD		0.905	1.409	0.000	0.488	3.145	0.675	1.232	7.466
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:11	0.987	2.023	4.962	51.450	51.850	0.517	1.053	2.097
2	20:43:30	0.964	2.069	5.035	52.010	53.500	0.526	1.019	2.170
3	20:43:50	0.996	2.035	4.972	49.920	53.350	0.503	1.073	2.143
x		98.215%	102.109%	99.796%	102.255%	105.804%	103.003%	104.842%	106.834%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.662	1.167	0.796	2.112	1.721	2.243	2.632	1.749
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:11	2.107	5.103	4.972	1.245	5.049	5.864	0.000	4.602
2	20:43:30	2.359	5.141	5.664	1.077	5.492	5.165	0.000	4.525
3	20:43:50	1.977	5.071	5.364	1.199	5.360	5.825	0.000	4.640
x		107.394%	102.100%	106.662%	117.351%	105.998%	112.359%	0.000	91.779%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		9.039	0.685	6.508	7.408	4.290	6.993	0.000	1.267
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:11	106.791%	4.464	4.523	104.497%	0.968	1.027	1.102	1.001
2	20:43:30	108.394%	4.362	4.596	105.447%	0.972	1.002	1.120	0.987
3	20:43:50	109.254%	4.741	4.607	106.039%	0.974	1.023	1.142	1.033
x		108.146%	90.447%	91.502%	105.328%	97.139%	101.711%	112.133%	100.688%
σ		1.250%	n/a	n/a	0.778%	n/a	n/a	n/a	n/a
%RSD		1.156	4.344	0.997	0.738	0.295	1.311	1.811	2.383
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:43:11	96.580%	4.663	1.699	1.780	10.020	9.552	90.352%	88.007%
2	20:43:30	98.458%	4.395	1.787	1.855	8.959	9.657	91.464%	89.094%
3	20:43:50	99.190%	4.468	1.799	1.726	9.454	9.543	92.821%	90.832%
x		98.076%	90.171%	88.087%	89.362%	94.769%	95.838%	91.546%	89.311%
σ		1.346%	n/a	n/a	n/a	n/a	n/a	1.237%	1.425%
%RSD		1.373	3.066	3.083	3.629	5.586	0.664	1.351	1.595
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:43:11	1.071	1.144	1.115	1.144	1.128	84.175%		
2	20:43:30	1.118	1.189	1.182	1.188	1.193	84.450%		
3	20:43:50	1.142	1.199	1.197	1.168	1.188	84.579%		
x		111.035%	117.719%	116.463%	116.676%	116.965%	84.401%		
σ		n/a	n/a	n/a	n/a	n/a	0.206%		
%RSD		3.263	2.481	3.720	1.893	3.119	0.245		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:01	37.632%	44.020	880.400	808.500	0.000	32010.000	31150.000	30170.000
2	20:47:21	60.742%	46.660	938.200	902.300	0.000	40220.000	39560.000	39770.000
3	20:47:40	98.766%	45.880	909.600	925.000	0.000	42570.000	42060.000	43240.000
x		65.713%	45.520	909.400	878.600	0.000	38270.000	37590.000	37720.000
σ		30.869%	1.359	28.880	61.750	0.000	5540.000	5715.000	6772.000
%RSD		46.975	2.985	3.176	7.028	0.000	14.480	15.200	17.950

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:01	1179.000	5654.000	0.000	24030.000	22220.000	23040.000	67.775%	1018.000
2	20:47:21	1551.000	7441.000	0.000	37530.000	36550.000	37550.000	70.122%	1018.000
3	20:47:40	1732.000	8260.000	0.000	45750.000	46560.000	46760.000	91.593%	880.200
x		1487.000	7118.000	0.000	35770.000	35110.000	35780.000	76.497%	972.000
σ		282.200	1333.000	0.000	10960.000	12230.000	11960.000	13.127%	79.460
%RSD		18.970	18.730	0.000	30.650	34.840	33.420	17.160	8.175

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:01	580.400	240.500	598.000	1223.000	1280.000	602.500	584.700	285.000
2	20:47:21	548.800	226.700	575.800	1164.000	1216.000	574.800	552.900	271.500
3	20:47:40	466.000	181.900	462.900	923.900	993.300	464.200	453.900	230.300
x		531.700	216.400	545.600	1104.000	1163.000	547.100	530.500	262.300
σ		59.080	30.630	72.420	158.300	150.400	73.190	68.210	28.480
%RSD		11.110	14.160	13.270	14.350	12.930	13.380	12.860	10.860

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:01	279.200	552.900	541.700	41.020	11.390	9.699	0.000	942.800
2	20:47:21	265.800	537.400	529.900	39.520	10.660	10.000	0.000	943.700
3	20:47:40	231.900	462.300	463.400	36.030	9.496	9.271	0.000	936.400
x		259.000	517.500	511.600	38.860	10.520	9.657	0.000	941.000
σ		24.370	48.430	42.170	2.561	0.956	0.367	0.000	4.006
%RSD		9.411	9.358	8.242	6.591	9.090	3.798	0.000	0.426

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:01	88.747%	942.100	982.300	88.048%	44.750	45.620	46.650	40.330
2	20:47:21	88.980%	944.700	982.100	88.066%	44.770	45.850	46.760	39.150
3	20:47:40	89.070%	951.400	992.300	87.762%	45.120	45.690	47.410	39.780
x		88.932%	946.100	985.600	87.959%	44.880	45.720	46.940	39.750
σ		0.167%	4.822	5.855	0.171%	0.211	0.116	0.410	0.588
%RSD		0.188	0.510	0.594	0.194	0.470	0.253	0.874	1.478

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:01	83.428%	1922.000	466.100	468.000	1795.000	1835.000	86.984%	85.875%
2	20:47:21	85.056%	1924.000	468.400	472.500	1805.000	1850.000	89.217%	89.022%
3	20:47:40	86.249%	1925.000	470.400	470.300	1791.000	1843.000	91.173%	91.514%
x		84.911%	1924.000	468.300	470.300	1797.000	1843.000	89.125%	88.804%
σ		1.416%	1.580	2.146	2.283	6.931	7.241	2.096%	2.826%
%RSD		1.668	0.082	0.458	0.485	0.386	0.393	2.351	3.182

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:47:01	100.700	106.000	43.900	43.660	43.550	37.032%
2	20:47:21	60.960	63.520	25.890	26.560	26.300	67.732%
3	20:47:40	57.270	58.720	24.020	24.040	24.000	77.001%
x		72.980	76.070	31.270	31.420	31.280	60.588%
σ		24.090	26.000	10.980	10.670	10.690	20.920%
%RSD		33.010	34.190	35.110	33.970	34.160	34.528

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:20	89.101%	0.025	65.250	61.710	0.000	713200.000	80830.000	81970.000
2	20:54:39	87.422%	0.012	61.170	64.080	0.000	737400.000	82120.000	84190.000
3	20:54:59	83.394%	-0.000	61.640	62.960	0.000	722600.000	81420.000	83100.000
x		86.639%	0.012	62.690	62.920	0.000	724400.000	81460.000	83090.000
σ		2.933%	0.013	2.230	1.185	0.000	12220.000	642.400	1112.000
%RSD		3.385	104.600	3.558	1.883	0.000	1.687	0.789	1.339

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:20	5.120	8209.000	0.000	7261.000	633300.000	596600.000	87.538%	0.950
2	20:54:39	5.177	8371.000	0.000	7571.000	657500.000	620200.000	83.579%	0.805
3	20:54:59	5.120	8417.000	0.000	7292.000	641100.000	604200.000	84.494%	0.890
x		5.139	8332.000	0.000	7374.000	644000.000	607000.000	85.203%	0.881
σ		0.033	109.000	0.000	170.700	12310.000	12040.000	2.073%	0.073
%RSD		0.641	1.309	0.000	2.314	1.911	1.984	2.433	8.242

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:20	-0.270	0.889	1048.000	186.400	1234.000	1.281	-0.457	4.416
2	20:54:39	-0.480	1.004	1081.000	192.300	1256.000	1.324	-0.956	4.390
3	20:54:59	-0.169	0.895	1052.000	185.100	1189.000	1.270	-0.809	4.489
x		-0.306	0.929	1060.000	187.900	1226.000	1.292	-0.741	4.432
σ		0.159	0.064	17.930	3.812	34.110	0.029	0.256	0.051
%RSD		51.940	6.930	1.691	2.028	2.782	2.220	34.610	1.161

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:20	0.850	0.696	1.263	8.617	-0.077	1.060	0.000	3957.000
2	20:54:39	0.809	0.820	0.834	8.510	-0.246	0.996	0.000	3959.000
3	20:54:59	0.737	0.898	0.762	8.396	0.236	0.538	0.000	3948.000
x		0.799	0.805	0.953	8.508	-0.029	0.865	0.000	3954.000
σ		0.057	0.102	0.271	0.111	0.245	0.285	0.000	5.895
%RSD		7.173	12.660	28.400	1.303	840.800	32.920	0.000	0.149

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:20	82.532%	1.758	1.870	78.837%	-0.017	-0.022	0.140	0.095
2	20:54:39	82.770%	1.771	1.706	78.919%	-0.015	-0.019	0.174	0.143
3	20:54:59	83.388%	1.572	1.689	78.746%	-0.019	-0.012	0.133	0.121
x		82.897%	1.700	1.755	78.834%	-0.017	-0.018	0.149	0.120
σ		0.442%	0.111	0.100	0.087%	0.002	0.005	0.022	0.024
%RSD		0.534	6.544	5.695	0.110	12.180	27.240	14.900	20.380

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:20	78.373%	0.940	0.034	0.134	245.000	245.600	83.759%	84.240%
2	20:54:39	79.152%	0.688	0.020	0.152	245.100	243.800	85.785%	86.865%
3	20:54:59	79.661%	0.527	0.018	0.172	247.800	245.600	87.074%	87.844%
x		79.062%	0.718	0.024	0.153	246.000	245.000	85.539%	86.316%
σ		0.649%	0.208	0.009	0.019	1.585	1.074	1.671%	1.864%
%RSD		0.821	28.960	36.460	12.390	0.644	0.438	1.954	2.159

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:54:20	0.089	0.091	0.060	0.077	0.062	75.082%
2	20:54:39	0.099	0.102	0.061	0.057	0.064	76.274%
3	20:54:59	0.080	0.083	0.058	0.058	0.055	77.236%
x		0.089	0.092	0.060	0.064	0.060	76.197%
σ		0.009	0.010	0.002	0.012	0.005	1.079%
%RSD		10.680	10.400	2.795	18.000	8.016	1.416

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:08	84.422%	-0.002	64.900	66.590	0.000	751300.000	84280.000	84700.000
2	20:58:27	81.984%	0.033	63.340	66.220	0.000	759800.000	84360.000	83950.000
3	20:58:46	81.233%	-0.015	61.050	64.620	0.000	726700.000	82180.000	84190.000
x		82.547%	0.006	63.100	65.810	0.000	745900.000	83610.000	84280.000
σ		1.667%	0.025	1.939	1.048	0.000	17220.000	1236.000	382.200
%RSD		2.020	448.500	3.073	1.592	0.000	2.309	1.479	0.454
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:08	0.725	8665.000	0.000	7219.000	622900.000	585700.000	89.959%	0.924
2	20:58:27	0.636	8479.000	0.000	7214.000	629300.000	589600.000	88.443%	0.772
3	20:58:46	0.720	8484.000	0.000	7291.000	643000.000	600000.000	85.538%	0.746
x		0.694	8542.000	0.000	7241.000	631700.000	591700.000	87.980%	0.814
σ		0.050	105.900	0.000	43.350	10230.000	7404.000	2.247%	0.096
%RSD		7.158	1.240	0.000	0.599	1.619	1.251	2.554	11.790
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:08	0.111	0.934	1020.000	180.800	1258.000	1.320	-0.002	4.379
2	20:58:27	-0.347	0.932	1030.000	181.700	1245.000	1.309	0.167	4.326
3	20:58:46	-0.519	0.897	1047.000	183.200	1230.000	1.283	0.122	4.476
x		-0.252	0.921	1032.000	181.900	1244.000	1.304	0.095	4.394
σ		0.326	0.021	13.760	1.212	14.250	0.019	0.087	0.076
%RSD		129.500	2.254	1.333	0.666	1.145	1.479	91.400	1.735
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:08	0.965	1.356	0.992	8.196	-0.385	1.168	0.000	3842.000
2	20:58:27	1.000	1.268	1.534	8.676	0.001	1.023	0.000	3838.000
3	20:58:46	0.997	1.292	1.378	9.422	-0.175	0.895	0.000	3811.000
x		0.987	1.305	1.301	8.764	-0.186	1.029	0.000	3830.000
σ		0.019	0.045	0.279	0.618	0.193	0.137	0.000	17.130
%RSD		1.966	3.481	21.440	7.046	103.600	13.280	0.000	0.447
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:08	82.248%	1.318	1.353	77.614%	-0.015	-0.017	0.144	0.100
2	20:58:27	82.961%	1.247	1.265	77.921%	-0.018	-0.010	0.097	0.095
3	20:58:46	83.129%	1.218	1.244	78.214%	-0.023	-0.014	0.128	0.110
x		82.779%	1.261	1.287	77.916%	-0.019	-0.014	0.123	0.102
σ		0.467%	0.051	0.058	0.300%	0.004	0.004	0.024	0.008
%RSD		0.565	4.076	4.486	0.385	22.380	27.890	19.440	7.396
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:08	78.595%	0.250	0.007	0.180	239.300	237.200	83.596%	83.577%
2	20:58:27	79.835%	0.232	0.020	0.130	241.600	236.300	85.415%	85.510%
3	20:58:46	79.501%	0.214	0.016	0.129	241.100	239.800	87.340%	86.392%
x		79.311%	0.232	0.014	0.146	240.700	237.800	85.450%	85.159%
σ		0.641%	0.018	0.007	0.030	1.206	1.805	1.872%	1.440%
%RSD		0.809	7.790	47.760	20.240	0.501	0.759	2.191	1.691
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:58:08	0.061	0.039	0.030	0.025	0.024	72.954%		
2	20:58:27	0.058	0.043	0.043	0.043	0.044	73.760%		
3	20:58:46	0.062	0.045	0.024	0.032	0.028	73.975%		
x		0.060	0.043	0.033	0.034	0.032	73.563%		
σ		0.002	0.003	0.010	0.009	0.011	0.539%		
%RSD		3.526	6.968	30.270	27.730	32.970	0.732		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:31	91.770%	-0.007	60.930	63.180	0.000	253100.000	31550.000	32140.000
2	21:01:50	81.280%	0.051	62.340	64.230	0.000	262700.000	32690.000	32630.000
3	21:02:11	82.704%	0.000	62.610	60.750	0.000	248200.000	31310.000	31580.000
x		85.251%	0.015	61.960	62.720	0.000	254700.000	31850.000	32120.000
σ		5.690%	0.032	0.903	1.786	0.000	7378.000	737.800	523.600
%RSD		6.675	216.900	1.458	2.848	0.000	2.897	2.317	1.630

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:31	3.969	9659.000	0.000	4007.000	197600.000	185900.000	89.390%	0.904
2	21:01:50	4.141	10130.000	0.000	4068.000	188400.000	190000.000	86.312%	0.819
3	21:02:11	4.073	9541.000	0.000	4046.000	202400.000	190400.000	82.271%	0.847
x		4.061	9776.000	0.000	4040.000	196100.000	188800.000	85.991%	0.857
σ		0.086	310.400	0.000	30.770	7118.000	2504.000	3.570%	0.044
%RSD		2.130	3.175	0.000	0.761	3.630	1.327	4.152	5.090

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:31	15.280	0.904	3.513	20.850	362.600	0.122	0.182	1.648
2	21:01:50	15.510	0.890	3.479	19.960	357.100	0.136	0.304	1.658
3	21:02:11	15.570	0.914	3.574	21.270	333.400	0.139	0.122	1.618
x		15.460	0.903	3.522	20.690	351.000	0.132	0.203	1.641
σ		0.153	0.012	0.048	0.667	15.540	0.009	0.093	0.021
%RSD		0.991	1.350	1.370	3.222	4.428	6.718	45.680	1.254

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:31	0.459	0.502	0.756	1.958	5.419	5.458	0.000	1373.000
2	21:01:50	0.630	0.571	0.372	1.829	4.964	6.115	0.000	1379.000
3	21:02:11	0.462	0.662	0.910	2.206	5.291	6.410	0.000	1391.000
x		0.517	0.578	0.680	1.998	5.225	5.994	0.000	1381.000
σ		0.098	0.081	0.277	0.192	0.234	0.487	0.000	9.236
%RSD		19.000	13.930	40.770	9.595	4.489	8.133	0.000	0.669

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:31	81.951%	0.710	0.788	79.583%	-0.020	-0.010	-0.025	-0.003
2	21:01:50	81.585%	0.624	0.672	79.223%	-0.017	-0.014	0.056	0.029
3	21:02:11	80.249%	0.692	0.673	78.220%	-0.014	-0.008	0.026	0.005
x		81.262%	0.675	0.711	79.008%	-0.017	-0.011	0.019	0.010
σ		0.896%	0.046	0.067	0.706%	0.003	0.003	0.041	0.016
%RSD		1.102	6.770	9.379	0.894	17.110	29.170	216.400	156.800

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:31	78.894%	0.224	0.025	0.101	96.650	96.280	84.273%	84.601%
2	21:01:50	79.765%	0.143	0.055	0.106	97.220	96.570	85.501%	85.555%
3	21:02:11	80.084%	0.176	0.057	0.084	96.780	96.780	85.964%	86.893%
x		79.581%	0.181	0.045	0.097	96.890	96.540	85.246%	85.683%
σ		0.616%	0.041	0.018	0.012	0.298	0.254	0.874%	1.151%
%RSD		0.774	22.550	39.850	11.850	0.308	0.263	1.025	1.344

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:01:31	0.049	0.040	0.023	0.036	0.032	72.910%
2	21:01:50	0.044	0.044	0.051	0.045	0.051	72.628%
3	21:02:11	0.056	0.046	0.059	0.059	0.047	73.303%
x		0.050	0.043	0.044	0.047	0.043	72.947%
σ		0.006	0.003	0.019	0.012	0.010	0.339%
%RSD		12.290	6.071	42.740	25.660	22.370	0.465

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:22	94.460%	-0.010	12.500	13.250	0.000	53670.000	6515.000	6528.000
2	21:05:41	93.082%	-0.052	14.580	11.460	0.000	50250.000	6112.000	6274.000
3	21:06:00	91.681%	-0.037	12.780	11.600	0.000	50320.000	6033.000	6218.000
x		93.074%	-0.033	13.290	12.100	0.000	51410.000	6220.000	6340.000
σ		1.390%	0.021	1.130	0.998	0.000	1957.000	258.700	165.100
%RSD		1.493	65.210	8.502	8.244	0.000	3.805	4.159	2.604

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:22	0.990	1853.000	0.000	797.000	37630.000	36870.000	94.445%	0.128
2	21:05:41	0.823	1758.000	0.000	799.700	37590.000	37050.000	93.332%	0.118
3	21:06:00	0.880	1718.000	0.000	805.500	38220.000	38080.000	88.512%	0.166
x		0.898	1776.000	0.000	800.700	37820.000	37330.000	92.096%	0.138
σ		0.085	69.380	0.000	4.351	354.200	650.700	3.154%	0.025
%RSD		9.441	3.905	0.000	0.543	0.937	1.743	3.424	18.330

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:22	3.069	0.289	0.793	3.296	75.610	0.024	0.023	0.288
2	21:05:41	2.914	0.239	0.780	3.142	73.960	0.034	0.031	0.335
3	21:06:00	3.264	0.242	0.685	3.397	71.800	0.013	-0.002	0.336
x		3.082	0.257	0.753	3.278	73.790	0.024	0.017	0.320
σ		0.175	0.028	0.059	0.128	1.912	0.011	0.017	0.028
%RSD		5.691	11.050	7.786	3.910	2.591	45.290	100.400	8.651

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:22	0.119	0.156	0.279	-0.012	0.857	1.294	0.000	263.700
2	21:05:41	0.124	0.064	0.214	0.374	0.844	1.069	0.000	266.400
3	21:06:00	0.179	0.064	0.329	0.169	0.792	0.962	0.000	262.200
x		0.141	0.095	0.274	0.177	0.831	1.108	0.000	264.100
σ		0.033	0.053	0.058	0.194	0.035	0.170	0.000	2.110
%RSD		23.710	56.010	21.110	109.300	4.174	15.300	0.000	0.799

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:22	89.389%	0.157	0.165	89.154%	-0.008	-0.000	-0.014	-0.009
2	21:05:41	89.450%	0.149	0.162	88.206%	-0.015	-0.009	-0.025	-0.013
3	21:06:00	90.025%	0.179	0.171	88.510%	-0.017	-0.011	-0.005	-0.002
x		89.621%	0.162	0.166	88.623%	-0.013	-0.007	-0.015	-0.008
σ		0.351%	0.016	0.004	0.484%	0.005	0.006	0.010	0.005
%RSD		0.391	9.807	2.695	0.546	34.770	85.350	67.170	65.630

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:22	87.922%	-0.139	-0.065	-0.065	19.520	19.360	91.472%	91.797%
2	21:05:41	89.817%	-0.149	-0.044	-0.059	19.900	19.210	93.951%	94.385%
3	21:06:00	89.682%	-0.157	-0.051	-0.055	19.380	19.480	94.965%	95.998%
x		89.141%	-0.148	-0.053	-0.060	19.600	19.350	93.463%	94.060%
σ		1.057%	0.009	0.011	0.005	0.271	0.134	1.797%	2.119%
%RSD		1.186	6.180	20.600	8.480	1.382	0.694	1.923	2.253

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:05:22	0.022	0.015	0.016	0.010	0.007	91.728%
2	21:05:41	0.024	0.013	0.008	0.004	0.006	92.616%
3	21:06:00	0.019	0.013	-0.001	-0.002	0.005	91.665%
x		0.022	0.014	0.008	0.004	0.006	92.003%
σ		0.002	0.001	0.008	0.006	0.001	0.532%
%RSD		10.750	10.250	107.700	141.800	16.050	0.578

CCV 1558997 5/7/2015 9:08:59 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:59	114.264%	99.420	98.480	96.330	0.000	47160.000	47060.000	47780.000
2	21:09:18	115.352%	101.200	96.440	95.450	0.000	48350.000	48760.000	48840.000
3	21:09:37	111.484%	101.000	101.100	98.390	0.000	48520.000	49510.000	49390.000
x		113.700%	100.540%	98.659%	96.724%	0.000	96.021%	96.888%	97.342%
σ		1.995%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.754	0.965	2.348	1.562	0.000	1.549	2.587	1.684
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:59	461.200	4681.000	0.000	46570.000	45090.000	45180.000	119.413%	86.350
2	21:09:18	460.900	4746.000	0.000	48330.000	47500.000	48220.000	113.468%	93.960
3	21:09:37	484.700	4857.000	0.000	49460.000	49060.000	49310.000	111.001%	93.770
x		93.784%	95.222%	0.000	96.234%	94.434%	95.143%	114.627%	91.360%
σ		n/a	n/a	0.000	n/a	n/a	n/a	4.324%	n/a
%RSD		2.912	1.874	0.000	3.026	4.230	4.497	3.772	4.751
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:59	90.380	91.960	447.700	22940.000	22560.000	91.030	93.890	96.270
2	21:09:18	95.190	96.230	472.400	24090.000	23720.000	95.620	97.510	99.010
3	21:09:37	97.940	96.480	480.700	24420.000	23960.000	96.560	98.120	99.300
x		94.505%	94.891%	93.389%	95.266%	93.649%	94.407%	96.507%	98.191%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		4.047	2.678	3.671	3.258	3.183	3.135	2.366	1.702
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:59	95.700	94.340	95.220	96.360	101.100	101.700	0.000	93.730
2	21:09:18	99.010	96.280	95.780	98.690	103.800	102.200	0.000	94.810
3	21:09:37	98.950	98.200	97.990	98.830	103.100	102.700	0.000	94.770
x		97.887%	96.273%	96.331%	97.960%	102.658%	102.205%	0.000	94.436%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.936	2.006	1.522	1.419	1.366	0.461	0.000	0.651
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:59	95.144%	87.990	87.790	93.788%	94.160	95.690	95.910	95.090
2	21:09:18	97.106%	91.540	91.350	95.279%	96.880	97.390	96.260	96.370
3	21:09:37	98.863%	92.690	93.160	97.773%	95.840	96.830	96.380	96.130
x		97.037%	90.742%	90.767%	95.613%	95.627%	96.640%	96.187%	95.862%
σ		1.860%	n/a	n/a	2.014%	n/a	n/a	n/a	n/a
%RSD		1.917	2.699	3.008	2.106	1.440	0.896	0.254	0.708
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:08:59	91.261%	92.190	92.550	93.420	94.130	93.460	87.644%	86.775%
2	21:09:18	91.783%	93.560	94.460	94.710	95.650	94.920	89.983%	88.917%
3	21:09:37	94.029%	94.220	95.870	95.430	95.820	95.590	90.999%	91.510%
x		92.358%	93.323%	94.293%	94.520%	95.197%	94.657%	89.542%	89.067%
σ		1.471%	n/a	n/a	n/a	n/a	n/a	1.721%	2.371%
%RSD		1.592	1.110	1.766	1.075	0.979	1.148	1.922	2.663
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:08:59	96.620	100.600	97.050	97.070	96.480	98.999%		
2	21:09:18	98.660	102.100	98.140	97.890	97.690	101.473%		
3	21:09:37	98.380	102.000	98.430	99.130	98.170	103.054%		
x		97.887%	101.531%	97.873%	98.034%	97.446%	101.175%		
σ		n/a	n/a	n/a	n/a	n/a	2.044%		
%RSD		1.131	0.824	0.748	1.058	0.898	2.020		

CCB5 5/7/2015 9:15:40 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:59	115.978%	-0.011	0.457	0.439	0.000	11.400	4.045	3.718
2	21:16:18	113.460%	-0.010	0.409	0.503	0.000	9.249	3.536	3.258
3	21:16:41	115.133%	0.071	0.646	0.356	0.000	9.108	2.815	3.235
x		114.857%	0.016	0.504	0.433	0.000	9.921	3.466	3.403
σ		1.282%	0.047	0.126	0.074	0.000	1.287	0.618	0.272
%RSD		1.116	285.900	24.910	17.020	0.000	12.980	17.830	8.002
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:59	0.258	-129.400	0.000	9.885	9.846	9.497	117.808%	0.023
2	21:16:18	0.243	-129.200	0.000	7.954	3.179	6.131	117.287%	-0.016
3	21:16:41	0.232	-129.400	0.000	8.238	3.271	6.262	116.412%	-0.015
x		0.244	-129.300	0.000	8.692	5.432	7.297	117.169%	-0.003
σ		0.013	0.141	0.000	1.042	3.823	1.906	0.705%	0.022
%RSD		5.382	0.109	0.000	11.990	70.380	26.130	0.602	839.400
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:59	0.005	-0.002	0.076	6.942	7.412	0.007	0.005	-0.028
2	21:16:18	0.024	-0.015	0.070	4.754	8.154	0.008	0.044	-0.029
3	21:16:41	-0.001	0.015	0.067	5.272	6.271	0.009	-0.009	-0.034
x		0.010	-0.001	0.071	5.656	7.279	0.008	0.014	-0.031
σ		0.013	0.015	0.005	1.143	0.948	0.001	0.027	0.003
%RSD		137.500	1800.000	6.726	20.220	13.020	16.050	202.700	10.070
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:59	0.002	0.233	0.234	0.015	0.256	0.151	0.000	0.047
2	21:16:18	0.027	0.077	0.401	0.025	0.190	0.118	0.000	0.033
3	21:16:41	-0.003	0.243	0.324	0.044	0.119	0.189	0.000	0.041
x		0.009	0.184	0.320	0.028	0.188	0.153	0.000	0.040
σ		0.016	0.093	0.084	0.015	0.069	0.035	0.000	0.007
%RSD		183.300	50.540	26.260	51.890	36.480	23.210	0.000	18.090
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:59	102.466%	0.266	0.224	104.164%	-0.004	0.005	0.141	0.089
2	21:16:18	102.886%	0.195	0.223	104.298%	-0.004	0.005	0.039	0.030
3	21:16:41	103.693%	0.212	0.191	105.146%	-0.007	-0.002	0.079	0.067
x		103.015%	0.225	0.213	104.536%	-0.005	0.003	0.086	0.062
σ		0.623%	0.037	0.019	0.532%	0.002	0.004	0.051	0.030
%RSD		0.605	16.480	8.916	0.509	37.060	143.600	59.570	48.750
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:59	97.157%	-0.202	-0.062	-0.065	0.032	0.015	89.716%	88.600%
2	21:16:18	97.950%	-0.183	-0.062	-0.068	-0.011	0.012	91.670%	89.193%
3	21:16:41	98.882%	-0.175	-0.064	-0.054	-0.015	0.016	91.368%	90.034%
x		97.996%	-0.187	-0.063	-0.062	0.002	0.015	90.918%	89.276%
σ		0.864%	0.014	0.001	0.007	0.026	0.002	1.052%	0.721%
%RSD		0.881	7.334	1.450	11.480	1271.000	14.790	1.157	0.808
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:15:59	0.017	0.021	0.010	0.010	0.012	84.044%		
2	21:16:18	0.018	0.013	0.012	0.001	0.006	84.379%		
3	21:16:41	0.028	0.023	0.011	0.011	0.010	85.021%		
x		0.021	0.019	0.011	0.007	0.009	84.481%		
σ		0.006	0.005	0.001	0.005	0.003	0.497%		
%RSD		26.860	27.590	11.670	69.700	34.530	0.588		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:55	52.835%	-0.007	54.320	58.730	0.000	219600.000	26530.000	26830.000
2	21:20:14	20.830%	-0.081	48.370	60.840	0.000	187300.000	22240.000	22710.000
3	21:20:33	14.919%	0.088	51.450	53.750	0.000	143900.000	16670.000	16150.000
x		29.528%	0.000	51.380	57.770	0.000	183600.000	21810.000	21900.000
σ		20.400%	0.085	2.976	3.641	0.000	37980.000	4945.000	5389.000
%RSD		69.086	42170.000	5.792	6.302	0.000	20.690	22.670	24.610

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:55	1.640	8110.000	0.000	2769.000	116300.000	143400.000	81.193%	10.070
2	21:20:14	1.394	6687.000	0.000	3950.000	158400.000	167800.000	79.617%	0.733
3	21:20:33	-0.573	4257.000	0.000	13840.000	204300.000	206300.000	78.245%	0.718
x		0.820	6351.000	0.000	6852.000	159600.000	172500.000	79.685%	3.839
σ		1.213	1948.000	0.000	6078.000	44030.000	31730.000	1.475%	5.393
%RSD		147.800	30.680	0.000	88.700	27.580	18.400	1.852	140.500

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:55	16.880	0.718	2.995	35.330	428.500	0.159	0.885	2.157
2	21:20:14	14.670	0.707	2.934	32.480	397.400	0.129	0.674	1.963
3	21:20:33	17.000	0.798	3.062	30.210	385.600	0.138	0.555	2.101
x		16.180	0.741	2.997	32.680	403.800	0.142	0.704	2.074
σ		1.313	0.050	0.064	2.565	22.180	0.015	0.167	0.100
%RSD		8.113	6.766	2.133	7.849	5.492	10.770	23.740	4.812

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:55	0.977	1.389	1.322	1.190	5.580	5.782	0.000	1418.000
2	21:20:14	0.956	1.504	1.103	1.355	5.486	6.655	0.000	1412.000
3	21:20:33	0.966	1.466	0.989	2.476	5.349	6.561	0.000	1411.000
x		0.966	1.453	1.138	1.673	5.471	6.333	0.000	1414.000
σ		0.010	0.059	0.169	0.700	0.116	0.479	0.000	3.895
%RSD		1.075	4.037	14.880	41.810	2.117	7.571	0.000	0.276

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:55	81.761%	0.660	0.681	81.140%	-0.018	-0.010	0.053	0.037
2	21:20:14	81.654%	0.674	0.663	79.570%	-0.011	-0.008	0.054	0.038
3	21:20:33	80.877%	0.558	0.565	80.192%	-0.010	-0.007	0.027	0.050
x		81.431%	0.631	0.636	80.301%	-0.013	-0.008	0.045	0.042
σ		0.482%	0.063	0.062	0.791%	0.004	0.001	0.015	0.008
%RSD		0.592	10.050	9.755	0.985	33.870	15.720	34.460	18.200

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:55	78.868%	0.242	0.066	0.160	97.020	95.890	81.558%	80.510%
2	21:20:14	79.409%	0.240	0.070	0.123	97.290	95.320	83.481%	82.802%
3	21:20:33	79.225%	0.217	0.068	0.094	98.040	97.340	84.627%	83.307%
x		79.167%	0.233	0.068	0.126	97.450	96.180	83.222%	82.206%
σ		0.275%	0.014	0.002	0.033	0.527	1.042	1.551%	1.491%
%RSD		0.347	5.931	2.788	26.300	0.540	1.084	1.864	1.814

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:19:55	0.043	0.053	0.110	0.137	0.112	45.743%
2	21:20:14	0.140	0.154	0.421	0.353	0.283	17.468%
3	21:20:33	0.232	0.277	0.785	0.223	0.306	9.727%
x		0.138	0.162	0.439	0.238	0.234	24.313%
σ		0.095	0.112	0.338	0.109	0.106	18.959%
%RSD		68.460	69.250	76.940	45.730	45.310	77.977

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:23:42	96.468%	-0.067	10.870	12.080	0.000	52390.000	6379.000	6438.000
2	21:24:01	95.676%	-0.025	12.400	12.970	0.000	51970.000	6298.000	6433.000
3	21:24:20	90.486%	-0.007	11.740	13.050	0.000	53650.000	6435.000	6587.000
x		94.210%	-0.033	11.670	12.700	0.000	52670.000	6371.000	6486.000
σ		3.249%	0.031	0.766	0.539	0.000	876.400	69.250	87.800
%RSD		3.449	93.760	6.566	4.244	0.000	1.664	1.087	1.354

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:23:42	-0.294	1864.000	0.000	796.400	36000.000	36960.000	100.559%	0.083
2	21:24:01	-0.117	1812.000	0.000	809.700	36760.000	37240.000	96.678%	0.101
3	21:24:20	-0.110	1885.000	0.000	809.300	37830.000	38240.000	96.360%	-0.005
x		-0.174	1854.000	0.000	805.100	36860.000	37480.000	97.866%	0.059
σ		0.104	37.680	0.000	7.559	918.100	675.200	2.338%	0.057
%RSD		60.080	2.033	0.000	0.939	2.490	1.802	2.389	95.430

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:23:42	2.999	0.168	0.537	3.602	73.990	0.010	0.016	0.330
2	21:24:01	2.820	0.136	0.559	4.040	73.660	0.014	0.118	0.378
3	21:24:20	3.252	0.162	0.546	4.005	72.000	0.026	0.041	0.341
x		3.024	0.155	0.547	3.882	73.210	0.017	0.058	0.349
σ		0.217	0.017	0.011	0.243	1.068	0.008	0.053	0.025
%RSD		7.171	11.050	1.964	6.266	1.458	47.890	91.380	7.265

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:23:42	0.178	-0.158	0.309	0.304	1.260	1.531	0.000	275.400
2	21:24:01	0.213	-0.128	0.014	0.427	0.900	1.268	0.000	274.200
3	21:24:20	0.144	0.023	-0.011	0.514	1.127	1.355	0.000	273.400
x		0.178	-0.088	0.104	0.415	1.096	1.385	0.000	274.300
σ		0.035	0.097	0.178	0.105	0.182	0.134	0.000	1.015
%RSD		19.360	110.900	170.900	25.420	16.600	9.686	0.000	0.370

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:23:42	90.729%	0.122	0.100	91.598%	-0.026	-0.016	0.031	0.022
2	21:24:01	90.696%	0.090	0.142	90.516%	-0.017	-0.015	0.026	0.016
3	21:24:20	91.798%	0.123	0.125	92.644%	-0.017	-0.020	0.022	0.010
x		91.074%	0.112	0.122	91.586%	-0.020	-0.017	0.026	0.016
σ		0.627%	0.019	0.021	1.064%	0.005	0.003	0.004	0.006
%RSD		0.688	16.950	17.160	1.162	24.320	17.130	16.220	37.870

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:23:42	88.692%	-0.136	-0.056	-0.054	19.780	19.270	89.584%	89.021%
2	21:24:01	89.954%	-0.129	-0.051	-0.047	19.610	19.290	93.831%	92.208%
3	21:24:20	91.101%	-0.167	-0.061	-0.058	19.480	19.610	94.350%	94.148%
x		89.916%	-0.144	-0.056	-0.053	19.620	19.390	92.589%	91.793%
σ		1.205%	0.020	0.005	0.006	0.149	0.188	2.615%	2.589%
%RSD		1.340	14.150	9.394	11.020	0.761	0.968	2.824	2.820

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:23:42	0.005	0.003	-0.001	-0.006	0.000	87.536%
2	21:24:01	0.008	0.002	-0.002	-0.004	-0.004	87.408%
3	21:24:20	0.007	0.005	-0.002	0.006	0.002	89.468%
x		0.007	0.003	-0.002	-0.001	-0.001	88.137%
σ		0.001	0.002	0.001	0.006	0.003	1.154%
%RSD		21.410	47.320	30.310	464.500	371.700	1.310

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:30	82.222%	46.840	1001.000	969.600	0.000	296400.000	74740.000	76370.000
2	21:27:49	83.634%	47.720	997.900	973.400	0.000	293600.000	74430.000	75670.000
3	21:28:08	79.569%	47.740	975.500	969.600	0.000	297600.000	73480.000	74440.000
x		81.809%	47.430	991.500	970.900	0.000	295900.000	74220.000	75490.000
σ		2.064%	0.515	13.990	2.185	0.000	2071.000	652.500	976.900
%RSD		2.523	1.085	1.411	0.225	0.000	0.700	0.879	1.294

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:30	1777.000	18090.000	0.000	50400.000	247100.000	241900.000	82.734%	907.600
2	21:27:49	1742.000	17610.000	0.000	50370.000	249600.000	244000.000	77.899%	912.000
3	21:28:08	1742.000	18160.000	0.000	50740.000	248100.000	245200.000	79.427%	911.800
x		1754.000	17950.000	0.000	50500.000	248300.000	243700.000	80.020%	910.500
σ		20.520	298.100	0.000	206.800	1289.000	1659.000	2.471%	2.465
%RSD		1.170	1.661	0.000	0.409	0.519	0.681	3.088	0.271

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:30	493.100	186.700	455.200	951.500	1300.000	442.700	434.000	222.500
2	21:27:49	492.900	187.800	468.000	970.700	1354.000	462.500	455.000	227.800
3	21:28:08	491.700	183.000	455.300	943.500	1268.000	446.400	436.000	217.300
x		492.600	185.800	459.500	955.200	1307.000	450.500	441.700	222.600
σ		0.760	2.515	7.354	13.980	43.390	10.520	11.620	5.254
%RSD		0.154	1.354	1.601	1.463	3.319	2.335	2.630	2.360

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:30	215.400	437.000	439.200	37.300	14.220	15.480	0.000	2336.000
2	21:27:49	228.300	448.400	451.200	38.710	13.750	14.310	0.000	2326.000
3	21:28:08	218.700	441.600	441.300	37.760	14.040	15.710	0.000	2338.000
x		220.800	442.300	443.900	37.920	14.000	15.170	0.000	2333.000
σ		6.725	5.719	6.381	0.722	0.241	0.753	0.000	6.214
%RSD		3.046	1.293	1.437	1.902	1.721	4.965	0.000	0.266

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:30	81.513%	958.600	988.800	78.995%	44.610	45.430	46.190	39.580
2	21:27:49	83.032%	970.900	999.700	79.495%	44.510	45.490	46.910	38.450
3	21:28:08	82.832%	973.000	1005.000	79.960%	45.200	45.570	46.160	40.750
x		82.459%	967.500	997.700	79.484%	44.770	45.500	46.420	39.590
σ		0.825%	7.779	8.112	0.483%	0.372	0.070	0.422	1.155
%RSD		1.001	0.804	0.813	0.607	0.832	0.154	0.910	2.916

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:30	79.507%	1952.000	470.100	467.700	1848.000	1902.000	88.845%	89.288%
2	21:27:49	80.424%	1965.000	477.600	473.200	1856.000	1908.000	90.927%	91.637%
3	21:28:08	81.176%	1951.000	475.000	473.400	1859.000	1897.000	91.599%	92.620%
x		80.369%	1956.000	474.200	471.400	1854.000	1902.000	90.457%	91.182%
σ		0.836%	7.723	3.787	3.211	5.444	5.163	1.436%	1.712%
%RSD		1.040	0.395	0.799	0.681	0.294	0.271	1.588	1.878

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:27:30	54.120	56.180	23.200	23.410	23.350	82.198%
2	21:27:49	56.420	58.400	23.630	23.710	23.730	82.449%
3	21:28:08	55.780	58.730	23.560	24.150	23.930	83.806%
x		55.440	57.770	23.460	23.760	23.670	82.817%
σ		1.183	1.386	0.228	0.372	0.295	0.865%
%RSD		2.133	2.399	0.971	1.566	1.246	1.045

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:18	85.425%	46.280	1020.000	975.200	0.000	291100.000	73500.000	75300.000
2	21:31:37	84.043%	45.840	961.700	918.700	0.000	285400.000	72440.000	72760.000
3	21:31:56	78.709%	47.120	999.900	957.200	0.000	282000.000	73340.000	74410.000
x		82.726%	46.410	994.000	950.400	0.000	286200.000	73090.000	74160.000
σ		3.547%	0.652	29.760	28.860	0.000	4607.000	569.900	1288.000
%RSD		4.287	1.405	2.994	3.037	0.000	1.610	0.780	1.737

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:18	1768.000	18120.000	0.000	49830.000	242500.000	236200.000	82.499%	905.700
2	21:31:37	1722.000	17710.000	0.000	49340.000	246900.000	241000.000	80.539%	912.700
3	21:31:56	1711.000	17410.000	0.000	49800.000	245500.000	240200.000	80.375%	885.800
x		1734.000	17750.000	0.000	49660.000	245000.000	239200.000	81.138%	901.400
σ		29.970	355.200	0.000	273.700	2277.000	2571.000	1.182%	13.960
%RSD		1.729	2.002	0.000	0.551	0.929	1.075	1.457	1.549

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:18	492.800	185.600	462.900	967.300	1355.000	464.600	456.600	225.600
2	21:31:37	493.200	187.100	472.000	973.100	1355.000	462.100	450.100	221.400
3	21:31:56	491.200	186.500	460.800	955.200	1327.000	457.600	444.600	222.200
x		492.400	186.400	465.200	965.200	1346.000	461.500	450.400	223.100
σ		1.081	0.786	5.992	9.137	16.280	3.573	5.981	2.204
%RSD		0.220	0.422	1.288	0.947	1.210	0.774	1.328	0.988

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:18	222.500	437.700	442.300	37.570	14.130	14.850	0.000	2301.000
2	21:31:37	221.000	435.400	439.000	36.520	13.990	14.400	0.000	2305.000
3	21:31:56	220.600	434.000	438.200	36.890	13.600	13.750	0.000	2310.000
x		221.400	435.700	439.800	36.990	13.910	14.330	0.000	2305.000
σ		0.976	1.873	2.173	0.536	0.273	0.555	0.000	4.631
%RSD		0.441	0.430	0.494	1.450	1.962	3.871	0.000	0.201

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:18	82.500%	951.600	983.400	79.409%	44.550	44.890	46.690	38.250
2	21:31:37	82.523%	965.400	981.300	79.427%	44.410	44.830	45.530	38.260
3	21:31:56	82.655%	962.000	986.400	79.301%	44.520	45.050	45.670	37.660
x		82.559%	959.600	983.700	79.379%	44.490	44.920	45.960	38.060
σ		0.084%	7.197	2.596	0.068%	0.072	0.115	0.635	0.343
%RSD		0.102	0.750	0.264	0.086	0.163	0.255	1.381	0.900

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:18	80.950%	1914.000	462.800	462.000	1831.000	1871.000	89.785%	90.961%
2	21:31:37	81.671%	1905.000	463.400	461.800	1838.000	1882.000	91.122%	92.899%
3	21:31:56	82.089%	1913.000	461.000	462.000	1827.000	1876.000	92.277%	92.745%
x		81.570%	1911.000	462.400	461.900	1832.000	1876.000	91.061%	92.202%
σ		0.576%	5.066	1.279	0.129	5.584	5.359	1.247%	1.077%
%RSD		0.706	0.265	0.277	0.028	0.305	0.286	1.370	1.168

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:31:18	54.580	57.290	22.990	23.270	23.140	83.127%
2	21:31:37	55.650	58.270	23.130	23.730	23.600	83.299%
3	21:31:56	56.140	59.370	23.490	23.580	23.840	83.109%
x		55.450	58.310	23.200	23.530	23.520	83.178%
σ		0.795	1.038	0.257	0.233	0.357	0.105%
%RSD		1.434	1.780	1.106	0.990	1.516	0.126

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:06	89.118%	47.290	981.300	931.800	0.000	295600.000	74930.000	76020.000
2	21:35:25	81.839%	47.420	1004.000	962.300	0.000	293800.000	76250.000	78220.000
3	21:35:45	81.392%	48.620	985.900	963.200	0.000	296000.000	74940.000	75490.000
x		84.116%	47.780	990.400	952.400	0.000	295100.000	75370.000	76580.000
σ		4.337%	0.734	11.930	17.850	0.000	1150.000	757.800	1448.000
%RSD		5.156	1.537	1.204	1.874	0.000	0.390	1.005	1.890

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:06	1762.000	18600.000	0.000	51290.000	262300.000	247600.000	80.391%	939.400
2	21:35:25	1828.000	18490.000	0.000	50970.000	265600.000	246400.000	81.183%	931.500
3	21:35:45	1745.000	18120.000	0.000	50280.000	237500.000	241800.000	80.122%	922.800
x		1778.000	18400.000	0.000	50850.000	255100.000	245300.000	80.565%	931.200
σ		43.700	251.900	0.000	518.000	15330.000	3091.000	0.552%	8.327
%RSD		2.458	1.369	0.000	1.019	6.009	1.260	0.685	0.894

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:06	522.500	192.000	487.700	1013.000	1418.000	492.900	477.300	237.500
2	21:35:25	513.000	189.000	481.500	973.700	1341.000	464.400	444.100	225.800
3	21:35:45	514.200	187.400	480.100	985.500	1345.000	477.600	451.600	225.300
x		516.600	189.500	483.100	990.600	1368.000	478.300	457.700	229.500
σ		5.143	2.360	4.045	20.000	43.230	14.300	17.400	6.879
%RSD		0.996	1.246	0.837	2.019	3.159	2.989	3.802	2.997

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:06	234.500	453.200	456.100	38.480	14.650	15.890	0.000	2369.000
2	21:35:25	224.500	442.300	448.400	37.210	14.430	15.640	0.000	2355.000
3	21:35:45	222.100	446.600	446.100	38.270	14.620	14.740	0.000	2367.000
x		227.000	447.400	450.200	37.990	14.570	15.420	0.000	2363.000
σ		6.576	5.480	5.222	0.679	0.121	0.603	0.000	7.639
%RSD		2.896	1.225	1.160	1.788	0.827	3.908	0.000	0.323

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:06	80.363%	987.200	1043.000	77.690%	45.370	46.320	48.010	39.650
2	21:35:25	80.998%	992.300	1039.000	78.125%	44.900	45.740	47.460	40.060
3	21:35:45	80.720%	987.200	1042.000	78.139%	45.280	45.490	47.690	39.190
x		80.694%	988.900	1041.000	77.985%	45.180	45.850	47.720	39.630
σ		0.318%	2.929	2.206	0.255%	0.248	0.425	0.274	0.434
%RSD		0.395	0.296	0.212	0.327	0.548	0.926	0.574	1.096

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:06	76.938%	2008.000	485.100	484.100	1973.000	1987.000	84.235%	83.899%
2	21:35:25	78.227%	2006.000	479.600	480.800	1980.000	1978.000	85.167%	86.356%
3	21:35:45	78.195%	2020.000	483.300	483.600	1972.000	1982.000	86.968%	86.808%
x		77.787%	2012.000	482.700	482.800	1975.000	1982.000	85.457%	85.688%
σ		0.735%	7.332	2.830	1.788	4.003	4.304	1.389%	1.565%
%RSD		0.945	0.364	0.586	0.370	0.203	0.217	1.626	1.827

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:35:06	56.210	57.910	24.150	24.280	24.340	69.271%
2	21:35:25	56.850	58.640	24.260	24.540	24.650	70.965%
3	21:35:45	57.460	59.470	24.540	24.500	24.650	70.553%
x		56.840	58.670	24.320	24.440	24.550	70.263%
σ		0.625	0.780	0.202	0.139	0.182	0.884%
%RSD		1.100	1.329	0.831	0.569	0.741	1.258

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:55	81.048%	45.830	979.400	938.600	0.000	288700.000	72200.000	73230.000
2	21:39:14	79.145%	46.520	987.300	933.700	0.000	290300.000	72870.000	74430.000
3	21:39:33	73.325%	45.030	927.400	893.600	0.000	281300.000	72500.000	72660.000
x		77.839%	45.800	964.700	922.000	0.000	286700.000	72520.000	73440.000
σ		4.023%	0.745	32.550	24.700	0.000	4819.000	337.300	903.100
%RSD		5.169	1.627	3.375	2.679	0.000	1.681	0.465	1.230

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:55	1685.000	17550.000	0.000	48920.000	230500.000	237300.000	77.415%	886.900
2	21:39:14	1723.000	17630.000	0.000	49470.000	255400.000	240400.000	74.320%	894.000
3	21:39:33	1698.000	17270.000	0.000	48070.000	249700.000	237800.000	74.611%	883.900
x		1702.000	17490.000	0.000	48820.000	245200.000	238500.000	75.449%	888.300
σ		19.670	187.000	0.000	707.400	13050.000	1664.000	1.709%	5.206
%RSD		1.156	1.069	0.000	1.449	5.321	0.698	2.265	0.586

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:55	498.900	184.200	466.600	959.300	1318.000	449.500	448.500	218.300
2	21:39:14	507.000	184.000	475.500	978.800	1301.000	445.700	440.100	222.300
3	21:39:33	493.500	181.000	469.300	942.000	1285.000	442.300	428.400	212.000
x		499.800	183.100	470.500	960.000	1301.000	445.800	439.000	217.500
σ		6.814	1.810	4.560	18.390	16.560	3.576	10.090	5.163
%RSD		1.363	0.989	0.969	1.916	1.272	0.802	2.298	2.374

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:55	220.500	439.700	441.700	37.360	13.910	14.760	0.000	2315.000
2	21:39:14	217.600	446.700	443.100	38.140	13.690	15.130	0.000	2329.000
3	21:39:33	211.100	437.900	439.700	38.720	13.660	15.380	0.000	2311.000
x		216.400	441.400	441.500	38.070	13.750	15.090	0.000	2318.000
σ		4.817	4.639	1.726	0.679	0.137	0.315	0.000	9.667
%RSD		2.226	1.051	0.391	1.783	0.998	2.084	0.000	0.417

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:55	77.607%	934.900	994.900	76.482%	43.920	44.450	45.350	38.130
2	21:39:14	78.293%	945.400	995.100	75.915%	43.960	44.540	46.210	38.520
3	21:39:33	77.763%	944.500	993.000	75.245%	44.260	44.190	46.030	38.320
x		77.888%	941.600	994.400	75.881%	44.050	44.390	45.870	38.320
σ		0.359%	5.771	1.152	0.619%	0.184	0.180	0.454	0.197
%RSD		0.462	0.613	0.116	0.816	0.417	0.405	0.990	0.514

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:55	75.565%	1930.000	465.000	464.100	1867.000	1934.000	84.660%	84.602%
2	21:39:14	76.543%	1929.000	466.000	466.300	1884.000	1913.000	86.344%	86.962%
3	21:39:33	77.699%	1916.000	462.600	461.300	1879.000	1895.000	88.228%	89.305%
x		76.602%	1925.000	464.500	463.900	1877.000	1914.000	86.411%	86.956%
σ		1.068%	7.874	1.773	2.537	8.565	19.310	1.785%	2.352%
%RSD		1.395	0.409	0.382	0.547	0.456	1.009	2.066	2.705

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:55	53.030	55.000	23.170	23.180	23.010	72.176%
2	21:39:14	54.400	56.270	23.450	23.630	23.490	74.333%
3	21:39:33	54.590	56.970	23.710	23.350	23.440	77.447%
x		54.010	56.080	23.450	23.390	23.310	74.652%
σ		0.848	1.001	0.271	0.231	0.266	2.650%
%RSD		1.570	1.785	1.154	0.987	1.140	3.549

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:45:53	95.566%	0.061	2.618	2.719	0.000	45.330	3.169	3.575
2	21:46:12	92.566%	0.036	2.332	2.128	0.000	40.540	2.824	3.585
3	21:46:32	91.975%	0.022	2.667	2.104	0.000	37.480	2.926	3.018
x		93.369%	0.040	2.539	2.317	0.000	41.120	2.973	3.393
σ		1.926%	0.019	0.181	0.348	0.000	3.955	0.177	0.324
%RSD		2.062	48.640	7.131	15.030	0.000	9.620	5.950	9.554
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:45:53	3.133	-121.200	0.000	-1.818	22.890	23.920	89.115%	0.165
2	21:46:12	3.338	-120.800	0.000	1.114	18.090	26.420	84.358%	0.177
3	21:46:32	3.312	-120.900	0.000	0.702	19.030	30.570	81.644%	0.130
x		3.261	-121.000	0.000	-0.001	20.010	26.970	85.039%	0.158
σ		0.112	0.194	0.000	1.587	2.543	3.357	3.782%	0.025
%RSD		3.428	0.161	0.000	288300.000	12.710	12.450	4.447	15.750
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:45:53	-0.018	0.719	0.087	1.710	4.006	0.016	-0.017	0.061
2	21:46:12	0.244	0.681	0.087	1.381	2.966	0.014	-0.015	0.029
3	21:46:32	-0.030	0.579	0.107	2.663	2.980	0.018	0.019	0.045
x		0.066	0.659	0.094	1.918	3.317	0.016	-0.004	0.045
σ		0.155	0.072	0.012	0.666	0.596	0.002	0.020	0.016
%RSD		236.000	10.970	12.710	34.700	17.970	11.700	471.700	35.150
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:45:53	0.066	0.828	0.808	0.191	-0.899	0.008	0.000	0.170
2	21:46:12	0.009	0.767	0.930	0.364	-0.632	0.019	0.000	0.138
3	21:46:32	0.059	0.956	0.748	0.685	-0.713	0.024	0.000	0.150
x		0.045	0.851	0.829	0.413	-0.748	0.017	0.000	0.153
σ		0.031	0.096	0.093	0.250	0.137	0.008	0.000	0.016
%RSD		70.280	11.290	11.210	60.560	18.270	47.290	0.000	10.370
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:45:53	86.091%	0.923	1.015	88.661%	-0.018	-0.013	-0.005	0.005
2	21:46:12	87.110%	0.837	0.873	89.625%	-0.019	-0.018	0.020	0.012
3	21:46:32	87.158%	0.828	0.796	89.526%	-0.022	-0.016	-0.021	-0.024
x		86.786%	0.862	0.895	89.270%	-0.020	-0.016	-0.002	-0.003
σ		0.603%	0.053	0.111	0.530%	0.002	0.002	0.021	0.019
%RSD		0.694	6.104	12.400	0.594	10.020	15.270	1155.000	733.500
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:45:53	88.113%	0.965	-0.032	-0.026	0.116	0.128	93.874%	94.579%
2	21:46:12	89.600%	0.740	-0.032	-0.026	0.121	0.134	95.950%	96.307%
3	21:46:32	90.710%	0.632	-0.024	-0.038	0.091	0.134	96.820%	97.898%
x		89.474%	0.779	-0.030	-0.030	0.109	0.132	95.548%	96.261%
σ		1.303%	0.170	0.005	0.007	0.016	0.003	1.514%	1.660%
%RSD		1.457	21.810	15.240	23.950	14.400	2.452	1.584	1.725
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:45:53	0.107	0.112	0.018	0.006	0.011	95.193%		
2	21:46:12	0.130	0.111	0.010	0.012	0.015	96.329%		
3	21:46:32	0.105	0.115	0.014	0.016	0.016	96.597%		
x		0.114	0.113	0.014	0.011	0.014	96.040%		
σ		0.014	0.002	0.004	0.005	0.003	0.745%		
%RSD		12.110	1.640	29.370	42.390	21.210	0.776		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:43	98.035%	0.044	1.831	1.253	0.000	46.330	2.746	3.835
2	21:50:02	94.979%	0.034	1.072	1.477	0.000	45.300	3.248	2.989
3	21:50:22	95.903%	-0.052	1.587	1.651	0.000	43.210	2.044	2.909
x		96.306%	0.008	1.497	1.460	0.000	44.950	2.679	3.244
σ		1.567%	0.053	0.388	0.200	0.000	1.588	0.605	0.513
%RSD		1.627	638.500	25.900	13.660	0.000	3.533	22.590	15.820

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:43	14.330	-121.500	0.000	0.814	26.080	37.020	87.384%	0.092
2	21:50:02	13.850	-121.300	0.000	1.219	36.350	35.300	82.674%	0.237
3	21:50:22	13.440	-121.800	0.000	1.943	24.420	34.630	81.808%	0.212
x		13.870	-121.500	0.000	1.325	28.950	35.650	83.955%	0.180
σ		0.445	0.242	0.000	0.572	6.459	1.236	3.001%	0.078
%RSD		3.210	0.199	0.000	43.160	22.310	3.467	3.574	43.090

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:43	0.061	0.699	0.174	2.987	4.612	0.016	0.034	0.318
2	21:50:02	0.164	0.606	0.177	4.083	5.191	0.018	0.011	0.343
3	21:50:22	-0.207	0.654	0.206	4.078	3.832	0.017	0.012	0.361
x		0.006	0.653	0.186	3.716	4.545	0.017	0.019	0.341
σ		0.192	0.046	0.018	0.632	0.682	0.001	0.013	0.021
%RSD		3177.000	7.110	9.453	17.000	15.010	7.124	70.610	6.252

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:43	0.334	5.533	5.939	0.126	-0.875	0.184	0.000	0.115
2	21:50:02	0.329	5.610	5.447	-0.294	-0.346	0.246	0.000	0.112
3	21:50:22	0.299	5.434	6.194	0.080	-0.723	0.090	0.000	0.135
x		0.321	5.526	5.860	-0.030	-0.648	0.173	0.000	0.121
σ		0.019	0.088	0.380	0.230	0.273	0.078	0.000	0.013
%RSD		5.933	1.592	6.479	779.000	42.070	45.290	0.000	10.640

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:43	83.728%	0.398	0.416	87.556%	-0.022	-0.022	-0.002	-0.013
2	21:50:02	85.448%	0.407	0.362	87.398%	-0.017	-0.024	0.049	0.037
3	21:50:22	85.540%	0.404	0.419	88.469%	-0.019	-0.021	-0.016	-0.007
x		84.906%	0.403	0.399	87.807%	-0.019	-0.022	0.011	0.006
σ		1.021%	0.005	0.032	0.578%	0.003	0.001	0.034	0.027
%RSD		1.202	1.191	8.039	0.658	15.370	6.715	327.800	473.500

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:43	85.820%	0.426	0.081	0.111	0.134	0.103	90.783%	90.799%
2	21:50:02	86.469%	0.379	0.082	0.114	0.099	0.101	92.164%	93.257%
3	21:50:22	88.310%	0.366	0.115	0.124	0.132	0.103	93.358%	94.262%
x		86.866%	0.390	0.093	0.116	0.122	0.103	92.102%	92.773%
σ		1.292%	0.032	0.019	0.007	0.020	0.001	1.289%	1.782%
%RSD		1.487	8.116	20.610	5.934	16.280	1.038	1.399	1.921

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:43	0.068	0.078	0.103	0.092	0.103	87.666%
2	21:50:02	0.077	0.068	0.107	0.107	0.112	89.005%
3	21:50:22	0.077	0.079	0.129	0.102	0.109	90.040%
x		0.074	0.075	0.113	0.100	0.108	88.904%
σ		0.005	0.006	0.013	0.008	0.004	1.190%
%RSD		6.708	7.878	11.910	7.509	4.027	1.338

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:00	119.743%	-0.013	1.279	1.309	0.000	-0.706	0.750	0.644
2	21:57:19	120.913%	-0.047	1.209	1.286	0.000	-2.654	0.415	0.288
3	21:57:38	114.925%	-0.010	0.963	1.074	0.000	-2.890	0.211	0.305
x		118.527%	-0.024	1.150	1.223	0.000	-2.084	0.459	0.412
σ		3.174%	0.021	0.166	0.130	0.000	1.199	0.272	0.201
%RSD		2.678	87.390	14.400	10.630	0.000	57.520	59.360	48.680

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:00	0.641	-131.400	0.000	5.798	2.196	1.826	108.301%	-0.033
2	21:57:19	0.481	-131.400	0.000	4.830	-1.890	-2.061	107.264%	-0.022
3	21:57:38	0.679	-131.300	0.000	3.635	1.180	0.023	108.290%	0.020
x		0.601	-131.400	0.000	4.754	0.495	-0.070	107.952%	-0.012
σ		0.105	0.056	0.000	1.083	2.127	1.945	0.596%	0.028
%RSD		17.520	0.042	0.000	22.780	429.600	2765.000	0.552	240.500

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:00	-0.014	-0.010	0.003	1.746	2.063	-0.000	0.030	-0.070
2	21:57:19	0.067	-0.004	0.004	1.901	1.678	0.001	-0.050	-0.067
3	21:57:38	-0.032	-0.044	0.002	0.310	1.269	-0.003	-0.025	-0.065
x		0.007	-0.020	0.003	1.319	1.670	-0.001	-0.015	-0.067
σ		0.053	0.021	0.001	0.878	0.397	0.002	0.041	0.003
%RSD		734.100	109.500	42.900	66.530	23.780	224.200	273.800	3.723

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:00	-0.052	-0.230	-0.363	-0.006	0.258	0.065	0.000	0.030
2	21:57:19	-0.077	-0.396	-0.165	-0.010	-0.117	0.032	0.000	0.017
3	21:57:38	-0.086	-0.414	-0.093	0.059	0.206	0.062	0.000	0.012
x		-0.072	-0.347	-0.207	0.014	0.116	0.053	0.000	0.019
σ		0.018	0.101	0.140	0.039	0.203	0.018	0.000	0.010
%RSD		24.450	29.230	67.460	269.000	176.000	33.880	0.000	48.960

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:00	96.594%	0.094	0.098	98.263%	-0.023	-0.016	0.077	0.055
2	21:57:19	98.965%	0.109	0.114	99.908%	-0.024	-0.018	0.009	0.006
3	21:57:38	98.891%	0.099	0.127	99.830%	-0.025	-0.017	0.072	0.040
x		98.150%	0.101	0.113	99.334%	-0.024	-0.017	0.053	0.034
σ		1.348%	0.008	0.015	0.928%	0.001	0.001	0.038	0.025
%RSD		1.373	7.859	13.160	0.934	3.400	7.117	71.660	75.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:00	93.130%	-0.166	-0.076	-0.076	0.007	-0.010	89.842%	88.194%
2	21:57:19	96.059%	-0.152	-0.081	-0.069	-0.018	-0.005	91.015%	89.873%
3	21:57:38	96.489%	-0.167	-0.067	-0.079	0.004	0.016	93.263%	91.718%
x		95.226%	-0.162	-0.075	-0.075	-0.002	0.001	91.373%	89.928%
σ		1.828%	0.008	0.007	0.005	0.014	0.014	1.739%	1.762%
%RSD		1.919	5.230	9.275	6.687	549.200	2564.000	1.903	1.960

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:00	0.043	0.041	-0.013	-0.016	-0.014	86.134%
2	21:57:19	0.030	0.040	-0.012	-0.021	-0.016	87.538%
3	21:57:38	0.043	0.040	-0.022	-0.020	-0.016	89.233%
x		0.039	0.040	-0.015	-0.019	-0.016	87.635%
σ		0.008	0.001	0.005	0.003	0.001	1.552%
%RSD		19.920	2.413	34.780	14.820	6.786	1.771

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:36	118.330%	107.100	108.900	96.360	0.000	48740.000	48050.000	48170.000
2	22:00:55	116.914%	104.100	106.600	98.260	0.000	49330.000	49110.000	49350.000
3	22:01:14	115.503%	102.500	100.800	98.810	0.000	49270.000	49490.000	50220.000
x		116.916%	104.559%	105.441%	97.810%	0.000	98.221%	97.766%	98.493%
σ		1.414%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.209	2.213	3.965	1.316	0.000	0.665	1.522	2.091

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:36	469.900	4798.000	0.000	47150.000	45820.000	46220.000	117.460%	89.290
2	22:00:55	479.900	4933.000	0.000	47740.000	46880.000	48000.000	114.907%	92.650
3	22:01:14	489.100	4969.000	0.000	49830.000	48880.000	49540.000	111.465%	94.560
x		95.929%	98.001%	0.000	96.481%	94.387%	95.839%	114.611%	92.166%
σ		n/a	n/a	0.000	n/a	n/a	n/a	3.008%	n/a
%RSD		2.009	1.842	0.000	2.921	3.299	3.463	2.625	2.893

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:36	92.540	93.400	456.300	23590.000	23250.000	95.160	97.260	98.980
2	22:00:55	95.600	98.080	476.400	24750.000	24430.000	99.580	101.700	101.900
3	22:01:14	97.420	98.670	488.100	25300.000	24850.000	99.860	102.500	101.700
x		95.187%	96.718%	94.719%	98.184%	96.719%	98.199%	100.492%	100.862%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.590	2.982	3.389	3.559	3.432	2.687	2.818	1.623

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:36	98.390	94.770	95.420	99.220	100.900	100.600	0.000	94.040
2	22:00:55	100.900	98.370	98.350	100.200	102.900	100.700	0.000	94.810
3	22:01:14	100.800	98.150	97.840	99.820	100.800	102.800	0.000	95.050
x		100.002%	97.100%	97.205%	99.731%	101.525%	101.335%	0.000	94.633%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.401	2.078	1.608	0.473	1.156	1.210	0.000	0.559

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:36	94.825%	89.640	89.810	94.315%	95.150	96.130	95.030	95.740
2	22:00:55	96.731%	93.050	92.440	95.631%	96.480	96.150	96.170	95.300
3	22:01:14	97.693%	94.660	94.010	96.687%	96.610	97.160	97.170	97.090
x		96.416%	92.452%	92.089%	95.544%	96.080%	96.480%	96.123%	96.044%
σ		1.460%	n/a	n/a	1.188%	n/a	n/a	n/a	n/a
%RSD		1.514	2.776	2.308	1.244	0.839	0.614	1.111	0.970

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:36	89.488%	92.060	93.700	93.080	96.470	94.700	84.790%	83.274%
2	22:00:55	91.291%	94.830	95.940	95.560	97.730	96.200	86.845%	86.524%
3	22:01:14	91.563%	94.310	96.170	96.710	96.520	95.300	90.221%	89.007%
x		90.781%	93.732%	95.271%	95.115%	96.907%	95.402%	87.285%	86.268%
σ		1.128%	n/a	n/a	n/a	n/a	n/a	2.742%	2.875%
%RSD		1.242	1.573	1.430	1.947	0.735	0.792	3.142	3.332

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:00:36	102.000	106.500	103.100	102.400	102.400	90.338%
2	22:00:55	103.800	108.100	104.400	105.100	105.000	92.626%
3	22:01:14	105.100	110.600	105.900	107.000	106.500	93.277%
x		103.617%	108.388%	104.486%	104.797%	104.631%	92.080%
σ		n/a	n/a	n/a	n/a	n/a	1.543%
%RSD		1.489	1.912	1.337	2.203	1.973	1.676

CCB6 5/7/2015 10:07:17 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:36	126.403%	0.015	0.858	0.875	0.000	8.721	4.181	4.519
2	22:07:55	117.283%	0.022	0.571	0.964	0.000	7.426	3.818	4.030
3	22:08:15	116.458%	-0.012	1.307	0.912	0.000	6.634	3.505	3.651
x		120.048%	0.009	0.912	0.917	0.000	7.594	3.834	4.066
σ		5.519%	0.018	0.371	0.044	0.000	1.053	0.338	0.435
%RSD		4.597	205.200	40.650	4.848	0.000	13.870	8.823	10.700
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:36	0.230	-129.000	0.000	12.300	10.770	6.746	117.524%	0.062
2	22:07:55	0.311	-129.200	0.000	12.450	3.201	7.974	116.885%	0.024
3	22:08:15	0.335	-129.200	0.000	13.630	12.380	7.711	114.618%	0.015
x		0.292	-129.100	0.000	12.800	8.782	7.477	116.342%	0.034
σ		0.055	0.125	0.000	0.727	4.900	0.647	1.527%	0.025
%RSD		18.960	0.096	0.000	5.683	55.790	8.649	1.313	73.850
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:36	0.033	-0.029	0.063	4.557	8.339	0.005	0.025	-0.034
2	22:07:55	0.020	0.020	0.077	4.636	5.627	0.010	0.037	0.013
3	22:08:15	0.005	-0.037	0.072	4.581	7.493	0.007	0.018	-0.003
x		0.019	-0.016	0.071	4.591	7.153	0.007	0.027	-0.008
σ		0.014	0.031	0.007	0.041	1.387	0.002	0.010	0.024
%RSD		73.950	197.300	9.940	0.885	19.390	34.210	37.570	295.900
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:36	-0.012	0.303	0.306	0.024	0.344	0.030	0.000	0.050
2	22:07:55	0.027	0.093	0.481	-0.003	0.223	0.018	0.000	0.042
3	22:08:15	-0.012	0.114	0.262	-0.027	0.120	-0.035	0.000	0.038
x		0.001	0.170	0.350	-0.002	0.229	0.004	0.000	0.044
σ		0.023	0.116	0.116	0.026	0.112	0.034	0.000	0.006
%RSD		2338.000	68.320	33.090	1464.000	49.060	762.000	0.000	14.110
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:36	98.790%	0.284	0.232	101.291%	-0.001	0.006	0.078	0.064
2	22:07:55	98.984%	0.315	0.264	101.985%	-0.008	-0.000	0.019	0.021
3	22:08:15	99.568%	0.240	0.261	101.971%	-0.009	-0.002	0.015	0.019
x		99.114%	0.280	0.252	101.749%	-0.006	0.001	0.037	0.035
σ		0.405%	0.038	0.017	0.397%	0.004	0.004	0.035	0.025
%RSD		0.409	13.540	6.891	0.390	71.380	382.700	94.860	72.970
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:07:36	91.482%	-0.178	-0.039	-0.059	0.010	0.014	81.829%	79.833%
2	22:07:55	92.173%	-0.163	-0.046	-0.063	0.001	0.036	84.445%	82.299%
3	22:08:15	93.991%	-0.167	-0.058	-0.053	0.004	-0.007	85.151%	83.619%
x		92.549%	-0.170	-0.047	-0.058	0.005	0.014	83.809%	81.917%
σ		1.296%	0.008	0.010	0.005	0.005	0.021	1.750%	1.921%
%RSD		1.401	4.482	20.430	7.863	101.200	151.900	2.088	2.346
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:07:36	0.020	0.037	0.021	0.007	0.020	78.133%		
2	22:07:55	0.040	0.030	-0.001	0.015	0.007	78.331%		
3	22:08:15	0.048	0.037	0.007	0.024	0.009	78.122%		
x		0.036	0.035	0.009	0.015	0.012	78.195%		
σ		0.014	0.004	0.011	0.008	0.007	0.118%		
%RSD		40.180	11.510	130.000	55.160	57.640	0.151		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:26	108.501%	49.140	917.100	895.200	0.000	45170.000	45030.000	45230.000
2	22:11:46	108.312%	45.690	871.700	849.500	0.000	44060.000	43220.000	44750.000
3	22:12:05	109.642%	46.550	869.300	847.700	0.000	45180.000	43570.000	43640.000
x		108.818%	47.130	886.000	864.100	0.000	44800.000	43940.000	44540.000
σ		0.720%	1.795	26.910	26.880	0.000	644.900	959.200	816.400
%RSD		0.661	3.808	3.037	3.111	0.000	1.439	2.183	1.833
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:26	1829.000	9154.000	0.000	46040.000	44800.000	45940.000	107.428%	864.100
2	22:11:46	1822.000	8990.000	0.000	45780.000	45210.000	46380.000	105.081%	883.700
3	22:12:05	1778.000	8748.000	0.000	46060.000	45690.000	46720.000	102.477%	888.500
x		1809.000	8964.000	0.000	45960.000	45230.000	46350.000	104.995%	878.800
σ		27.660	204.500	0.000	155.100	441.800	392.400	2.476%	12.950
%RSD		1.529	2.281	0.000	0.338	0.977	0.847	2.359	1.474
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:26	469.600	180.600	445.300	953.200	1012.000	472.000	460.700	231.300
2	22:11:46	469.600	181.200	451.000	956.600	1025.000	466.200	455.500	228.500
3	22:12:05	469.400	182.800	456.900	975.700	1016.000	467.600	460.700	232.300
x		469.500	181.600	451.100	961.800	1018.000	468.600	458.900	230.700
σ		0.074	1.167	5.796	12.150	6.775	3.014	2.992	1.966
%RSD		0.016	0.643	1.285	1.263	0.666	0.643	0.652	0.852
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:26	233.500	460.200	459.500	36.860	9.514	10.040	0.000	937.300
2	22:11:46	229.000	458.000	460.300	36.650	9.973	9.981	0.000	935.800
3	22:12:05	230.700	462.600	465.100	37.180	9.925	9.880	0.000	938.600
x		231.100	460.300	461.600	36.900	9.804	9.966	0.000	937.300
σ		2.266	2.294	3.040	0.269	0.252	0.079	0.000	1.438
%RSD		0.981	0.498	0.659	0.730	2.571	0.788	0.000	0.153
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:26	90.789%	891.600	929.600	91.154%	43.880	44.700	46.130	38.270
2	22:11:46	92.158%	907.800	941.600	91.913%	43.930	44.410	45.570	38.870
3	22:12:05	93.222%	912.500	948.200	94.032%	44.250	44.870	45.870	39.180
x		92.056%	904.000	939.800	92.366%	44.020	44.660	45.860	38.770
σ		1.220%	10.960	9.475	1.492%	0.203	0.232	0.281	0.460
%RSD		1.325	1.212	1.008	1.615	0.460	0.519	0.613	1.187
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:26	84.941%	1925.000	459.000	459.400	1842.000	1862.000	83.499%	81.789%
2	22:11:46	87.511%	1932.000	464.400	463.200	1836.000	1853.000	86.848%	86.092%
3	22:12:05	88.138%	1944.000	468.900	464.800	1804.000	1846.000	90.547%	89.123%
x		86.863%	1934.000	464.100	462.500	1827.000	1854.000	86.965%	85.668%
σ		1.694%	9.889	4.953	2.757	20.490	7.860	3.526%	3.685%
%RSD		1.950	0.511	1.067	0.596	1.121	0.424	4.054	4.302
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:11:26	44.560	45.410	18.560	18.640	18.390	90.112%		
2	22:11:46	47.300	49.150	19.660	19.840	19.700	89.086%		
3	22:12:05	49.660	50.920	19.870	20.270	20.290	88.772%		
x		47.170	48.490	19.360	19.580	19.460	89.323%		
σ		2.553	2.813	0.702	0.842	0.973	0.701%		
%RSD		5.412	5.800	3.625	4.301	5.003	0.785		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:14	109.411%	43.090	832.100	789.200	0.000	41570.000	42350.000	41280.000
2	22:15:33	105.841%	44.080	848.400	773.600	0.000	41470.000	41130.000	41130.000
3	22:15:52	104.376%	43.930	836.300	811.400	0.000	42670.000	42050.000	42910.000
x		106.543%	43.700	838.900	791.400	0.000	41900.000	41840.000	41770.000
σ		2.590%	0.534	8.451	19.000	0.000	666.800	634.000	986.100
%RSD		2.431	1.222	1.007	2.401	0.000	1.591	1.515	2.361

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:14	1682.000	8378.000	0.000	44190.000	43770.000	44680.000	95.997%	855.300
2	22:15:33	1678.000	8337.000	0.000	44890.000	44330.000	45790.000	95.103%	861.400
3	22:15:52	1708.000	8432.000	0.000	44600.000	44740.000	45010.000	95.022%	857.000
x		1689.000	8382.000	0.000	44560.000	44280.000	45160.000	95.374%	857.900
σ		16.030	48.000	0.000	349.900	485.300	574.300	0.541%	3.194
%RSD		0.949	0.573	0.000	0.785	1.096	1.272	0.567	0.372

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:14	455.400	180.100	443.100	926.400	962.600	454.000	467.500	228.000
2	22:15:33	458.900	183.000	441.900	929.400	974.800	452.000	461.200	227.200
3	22:15:52	451.200	175.500	435.600	899.200	945.700	439.400	442.100	224.100
x		455.200	179.500	440.200	918.300	961.100	448.500	456.900	226.400
σ		3.817	3.785	4.029	16.630	14.610	7.902	13.220	2.061
%RSD		0.839	2.109	0.915	1.811	1.520	1.762	2.893	0.910

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:14	227.000	458.900	461.700	36.710	9.856	9.849	0.000	913.300
2	22:15:33	228.000	457.100	458.600	35.420	9.833	8.648	0.000	905.500
3	22:15:52	220.900	451.300	452.800	35.870	9.473	9.106	0.000	904.900
x		225.300	455.800	457.700	36.000	9.721	9.201	0.000	907.900
σ		3.852	3.952	4.496	0.650	0.214	0.606	0.000	4.697
%RSD		1.710	0.867	0.982	1.807	2.205	6.584	0.000	0.517

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:14	87.631%	839.900	856.600	93.039%	40.950	41.640	42.490	36.050
2	22:15:33	89.499%	859.800	865.700	93.634%	41.200	41.710	42.520	36.760
3	22:15:52	90.180%	867.900	872.700	94.919%	41.190	41.320	42.370	36.040
x		89.103%	855.900	865.000	93.864%	41.110	41.560	42.460	36.280
σ		1.320%	14.440	8.051	0.961%	0.138	0.207	0.078	0.412
%RSD		1.481	1.687	0.931	1.024	0.335	0.497	0.183	1.135

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:14	89.416%	1762.000	429.400	427.200	1657.000	1663.000	89.990%	90.066%
2	22:15:33	89.879%	1770.000	433.400	433.400	1637.000	1679.000	92.419%	92.389%
3	22:15:52	92.010%	1773.000	429.700	428.600	1626.000	1666.000	94.149%	93.919%
x		90.435%	1768.000	430.800	429.700	1640.000	1669.000	92.186%	92.125%
σ		1.383%	5.911	2.246	3.282	15.560	7.999	2.089%	1.940%
%RSD		1.529	0.334	0.521	0.764	0.949	0.479	2.266	2.106

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:14	42.590	44.080	17.620	17.880	17.720	100.271%
2	22:15:33	44.240	46.100	18.380	18.600	18.470	97.640%
3	22:15:52	45.510	47.680	18.980	19.170	19.030	98.181%
x		44.110	45.950	18.320	18.550	18.410	98.697%
σ		1.460	1.809	0.678	0.648	0.656	1.390%
%RSD		3.310	3.936	3.701	3.496	3.566	1.408

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:09	113.706%	0.014	16.450	16.630	0.000	83370.000	91.220	93.950
2	22:22:28	112.583%	-0.021	16.520	17.250	0.000	85370.000	92.730	93.340
3	22:22:47	113.799%	-0.009	17.160	15.920	0.000	82790.000	91.590	93.120
x		113.363%	-0.005	16.710	16.600	0.000	83840.000	91.840	93.470
σ		0.677%	0.018	0.388	0.667	0.000	1355.000	0.785	0.432
%RSD		0.597	326.500	2.323	4.017	0.000	1.616	0.855	0.462
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:09	12.470	-15.910	0.000	151.400	543.800	496.300	108.876%	0.356
2	22:22:28	12.280	-15.940	0.000	151.800	556.700	524.600	105.918%	0.345
3	22:22:47	11.980	-19.050	0.000	154.700	612.100	521.700	103.601%	0.354
x		12.240	-16.970	0.000	152.600	570.900	514.200	106.132%	0.351
σ		0.248	1.804	0.000	1.819	36.280	15.590	2.644%	0.006
%RSD		2.027	10.630	0.000	1.192	6.356	3.031	2.492	1.615
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:09	0.070	0.816	3.766	303.100	289.300	0.132	0.971	0.765
2	22:22:28	0.123	0.851	3.713	300.200	293.900	0.126	0.972	0.785
3	22:22:47	-0.137	0.873	3.846	306.800	293.700	0.113	0.936	0.826
x		0.019	0.847	3.775	303.400	292.300	0.124	0.960	0.792
σ		0.137	0.029	0.067	3.284	2.616	0.009	0.021	0.031
%RSD		726.000	3.399	1.771	1.083	0.895	7.585	2.136	3.949
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:09	0.443	3.362	3.947	5.218	43.660	45.200	0.000	2.448
2	22:22:28	0.349	3.544	3.519	4.877	42.370	45.100	0.000	2.449
3	22:22:47	0.496	3.530	3.424	4.984	43.730	46.410	0.000	2.418
x		0.429	3.479	3.630	5.026	43.260	45.570	0.000	2.438
σ		0.075	0.101	0.279	0.174	0.770	0.726	0.000	0.018
%RSD		17.410	2.902	7.677	3.470	1.780	1.594	0.000	0.725
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:09	93.039%	2.197	2.138	95.955%	-0.020	-0.017	0.005	0.014
2	22:22:28	94.203%	1.874	1.961	96.513%	-0.014	-0.020	0.052	0.040
3	22:22:47	94.508%	1.919	1.905	97.100%	-0.012	-0.015	0.024	0.038
x		93.917%	1.997	2.001	96.523%	-0.016	-0.017	0.027	0.031
σ		0.775%	0.175	0.122	0.572%	0.004	0.003	0.023	0.014
%RSD		0.825	8.752	6.075	0.593	24.410	14.630	86.940	46.130
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:09	90.591%	1.511	0.247	0.255	0.565	0.541	90.087%	89.419%
2	22:22:28	91.298%	1.470	0.272	0.286	0.538	0.517	92.749%	92.466%
3	22:22:47	91.770%	1.410	0.256	0.224	0.537	0.561	92.641%	91.751%
x		91.219%	1.463	0.259	0.255	0.547	0.540	91.826%	91.212%
σ		0.593%	0.051	0.013	0.031	0.016	0.022	1.506%	1.593%
%RSD		0.651	3.464	4.968	12.290	2.888	4.037	1.641	1.747
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:22:09	0.223	0.231	1.968	1.867	1.894	107.886%		
2	22:22:28	0.251	0.246	2.123	1.972	2.071	102.702%		
3	22:22:47	0.229	0.265	2.288	2.081	2.175	98.680%		
x		0.234	0.247	2.126	1.974	2.047	103.089%		
σ		0.015	0.017	0.160	0.107	0.142	4.616%		
%RSD		6.209	6.839	7.515	5.416	6.948	4.477		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:56	102.981%	-0.042	13.490	11.860	0.000	66560.000	139.000	141.700
2	22:26:16	97.554%	0.002	11.990	11.800	0.000	61850.000	132.900	135.300
3	22:26:35	105.062%	0.009	11.670	12.350	0.000	67030.000	140.300	144.900
x		101.866%	-0.010	12.380	12.000	0.000	65150.000	137.400	140.700
σ		3.876%	0.027	0.974	0.301	0.000	2865.000	3.940	4.888
%RSD		3.805	271.800	7.868	2.510	0.000	4.398	2.868	3.475

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:56	0.965	-59.250	0.000	137.900	733.000	657.300	99.187%	0.120
2	22:26:16	0.992	-62.600	0.000	131.700	695.500	645.900	89.662%	0.290
3	22:26:35	1.053	-56.800	0.000	140.500	715.000	694.100	101.344%	0.138
x		1.003	-59.550	0.000	136.700	714.500	665.800	96.731%	0.183
σ		0.045	2.913	0.000	4.534	18.750	25.190	6.216%	0.093
%RSD		4.488	4.891	0.000	3.317	2.624	3.783	6.426	51.160

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:56	-0.052	0.091	11.660	115.700	123.200	0.520	1.543	0.422
2	22:26:16	-0.324	0.167	12.340	124.100	129.700	0.542	1.573	0.529
3	22:26:35	-0.126	0.080	11.340	111.400	116.500	0.492	1.524	0.414
x		-0.168	0.113	11.780	117.100	123.100	0.518	1.547	0.455
σ		0.141	0.047	0.512	6.475	6.612	0.025	0.025	0.064
%RSD		84.000	41.940	4.343	5.531	5.371	4.795	1.605	14.110

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:56	0.142	0.610	0.760	0.638	25.980	26.730	0.000	3.381
2	22:26:16	0.201	0.696	0.631	0.713	26.470	27.520	0.000	3.328
3	22:26:35	0.177	0.665	0.910	0.829	24.450	27.260	0.000	3.375
x		0.173	0.657	0.767	0.726	25.630	27.170	0.000	3.362
σ		0.029	0.044	0.140	0.096	1.052	0.401	0.000	0.029
%RSD		16.990	6.629	18.190	13.260	4.105	1.475	0.000	0.860

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:56	88.392%	0.883	0.854	91.953%	-0.015	-0.015	0.019	0.007
2	22:26:16	88.980%	0.869	0.881	92.239%	-0.019	-0.016	-0.028	-0.008
3	22:26:35	90.502%	0.726	0.776	93.449%	-0.022	-0.017	0.014	-0.002
x		89.291%	0.826	0.837	92.547%	-0.019	-0.016	0.002	-0.001
σ		1.088%	0.087	0.054	0.794%	0.004	0.001	0.026	0.007
%RSD		1.219	10.540	6.501	0.858	19.830	5.464	1333.000	830.600

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:56	85.344%	0.789	-0.024	-0.046	0.551	0.495	85.077%	84.288%
2	22:26:16	87.930%	0.760	-0.018	-0.045	0.540	0.494	87.979%	86.823%
3	22:26:35	88.264%	0.735	-0.038	-0.040	0.488	0.542	88.655%	88.605%
x		87.179%	0.761	-0.027	-0.044	0.526	0.510	87.237%	86.572%
σ		1.598%	0.027	0.010	0.003	0.034	0.028	1.901%	2.169%
%RSD		1.833	3.578	37.480	7.482	6.454	5.399	2.179	2.506

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:56	0.082	0.084	0.969	1.025	0.973	90.804%
2	22:26:16	0.095	0.089	1.107	1.004	1.047	86.249%
3	22:26:35	0.079	0.086	1.097	1.034	1.066	88.122%
x		0.085	0.086	1.058	1.021	1.029	88.392%
σ		0.008	0.002	0.077	0.016	0.049	2.289%
%RSD		9.846	2.382	7.252	1.531	4.756	2.590

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:44	103.553%	-0.003	13.290	12.050	0.000	71570.000	174.700	178.700
2	22:30:03	101.465%	-0.028	12.440	11.810	0.000	71130.000	176.200	178.400
3	22:30:22	103.690%	-0.003	10.720	11.960	0.000	71230.000	174.000	180.500
x		102.902%	-0.011	12.150	11.940	0.000	71310.000	175.000	179.200
σ		1.247%	0.014	1.310	0.124	0.000	229.500	1.122	1.153
%RSD		1.212	131.400	10.790	1.037	0.000	0.322	0.641	0.644

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:44	1.557	-48.960	0.000	159.500	892.300	827.800	99.225%	0.234
2	22:30:03	1.888	-45.100	0.000	162.200	916.800	841.600	97.853%	0.157
3	22:30:22	1.741	-49.960	0.000	160.000	906.800	856.700	95.505%	0.269
x		1.728	-48.000	0.000	160.500	905.300	842.000	97.528%	0.220
σ		0.166	2.566	0.000	1.419	12.340	14.450	1.882%	0.057
%RSD		9.586	5.345	0.000	0.884	1.363	1.716	1.929	26.120

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:44	-0.049	0.071	11.990	85.650	89.690	0.477	1.553	0.489
2	22:30:03	0.081	0.087	12.380	84.100	91.480	0.505	1.584	0.503
3	22:30:22	-0.142	0.044	12.660	88.050	94.270	0.473	1.563	0.471
x		-0.037	0.067	12.340	85.930	91.810	0.485	1.566	0.488
σ		0.112	0.022	0.335	1.992	2.307	0.017	0.016	0.016
%RSD		304.400	32.670	2.710	2.318	2.513	3.583	1.013	3.213

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:44	0.053	0.354	0.643	1.182	32.030	33.530	0.000	4.135
2	22:30:03	0.106	0.348	0.255	1.140	32.130	34.070	0.000	4.119
3	22:30:22	0.177	0.252	0.499	1.444	33.530	34.560	0.000	4.155
x		0.112	0.318	0.465	1.255	32.560	34.050	0.000	4.136
σ		0.062	0.057	0.196	0.165	0.841	0.516	0.000	0.018
%RSD		55.600	17.970	42.150	13.100	2.582	1.516	0.000	0.441

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:44	90.837%	0.330	0.372	92.960%	-0.023	-0.014	0.030	0.019
2	22:30:03	90.465%	0.391	0.389	92.866%	-0.019	-0.021	-0.004	-0.001
3	22:30:22	90.788%	0.432	0.337	93.496%	-0.022	-0.022	-0.027	-0.028
x		90.697%	0.384	0.366	93.107%	-0.022	-0.019	-0.000	-0.004
σ		0.202%	0.051	0.026	0.340%	0.002	0.004	0.028	0.024
%RSD		0.223	13.390	7.171	0.365	8.623	21.570	10880.000	662.900

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:44	89.400%	0.552	-0.005	-0.014	0.539	0.799	90.753%	90.007%
2	22:30:03	90.336%	0.538	-0.001	-0.013	0.825	0.803	92.852%	93.258%
3	22:30:22	91.529%	0.489	-0.016	-0.010	0.753	0.719	93.508%	93.745%
x		90.422%	0.526	-0.007	-0.012	0.706	0.774	92.371%	92.337%
σ		1.067%	0.033	0.007	0.002	0.149	0.048	1.439%	2.032%
%RSD		1.180	6.267	102.000	16.100	21.070	6.141	1.558	2.201

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:29:44	0.054	0.043	0.032	0.011	0.028	100.273%
2	22:30:03	0.059	0.059	0.028	0.036	0.029	98.634%
3	22:30:22	0.059	0.060	0.034	0.028	0.030	95.090%
x		0.057	0.054	0.031	0.025	0.029	97.999%
σ		0.003	0.010	0.003	0.013	0.001	2.650%
%RSD		5.399	18.130	9.364	51.120	4.499	2.704

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:32	108.020%	-0.031	11.910	10.960	0.000	71110.000	164.400	170.200
2	22:33:51	105.747%	-0.004	11.560	11.010	0.000	72370.000	158.600	163.100
3	22:34:10	101.466%	-0.014	12.220	10.830	0.000	73910.000	166.600	164.100
x		105.078%	-0.016	11.900	10.930	0.000	72470.000	163.200	165.800
σ		3.328%	0.013	0.330	0.091	0.000	1402.000	4.095	3.835
%RSD		3.167	81.980	2.772	0.835	0.000	1.934	2.509	2.312

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:32	56.900	-63.360	0.000	27.670	1169.000	1100.000	101.101%	0.071
2	22:33:51	55.870	-63.620	0.000	27.970	1258.000	1116.000	98.855%	0.108
3	22:34:10	58.080	-59.080	0.000	30.850	1243.000	1157.000	93.311%	0.179
x		56.950	-62.020	0.000	28.830	1223.000	1124.000	97.756%	0.119
σ		1.104	2.550	0.000	1.752	47.990	29.240	4.010%	0.055
%RSD		1.938	4.111	0.000	6.077	3.922	2.601	4.102	45.900

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:32	-0.106	0.046	8.898	87.730	92.060	0.649	0.537	0.398
2	22:33:51	-0.214	0.057	9.007	88.750	93.210	0.680	0.642	0.412
3	22:34:10	0.090	0.040	9.026	90.850	94.320	0.693	0.574	0.422
x		-0.077	0.048	8.977	89.110	93.200	0.674	0.585	0.410
σ		0.154	0.009	0.069	1.587	1.129	0.023	0.053	0.012
%RSD		200.100	18.210	0.767	1.781	1.212	3.403	9.137	2.977

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:32	0.025	0.684	0.677	0.507	15.450	15.800	0.000	4.381
2	22:33:51	0.028	0.692	0.861	0.224	15.350	15.530	0.000	4.418
3	22:34:10	0.088	0.698	0.595	0.655	15.190	15.850	0.000	4.447
x		0.047	0.691	0.711	0.462	15.330	15.730	0.000	4.415
σ		0.035	0.007	0.136	0.219	0.134	0.172	0.000	0.033
%RSD		74.880	0.969	19.150	47.460	0.873	1.094	0.000	0.751

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:32	92.729%	0.169	0.200	95.723%	-0.018	-0.019	-0.016	-0.011
2	22:33:51	92.543%	0.197	0.179	95.462%	-0.027	-0.017	0.074	0.052
3	22:34:10	93.494%	0.174	0.209	96.375%	-0.019	-0.020	0.023	0.011
x		92.922%	0.180	0.196	95.853%	-0.021	-0.019	0.027	0.018
σ		0.504%	0.015	0.016	0.470%	0.005	0.002	0.045	0.032
%RSD		0.543	8.452	7.912	0.490	22.620	9.757	167.500	182.300

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:32	90.518%	0.139	-0.047	-0.055	0.339	0.324	91.975%	91.639%
2	22:33:51	92.434%	0.080	-0.056	-0.065	0.290	0.347	95.021%	94.992%
3	22:34:10	93.272%	0.125	-0.065	-0.061	0.372	0.395	96.076%	95.918%
x		92.074%	0.115	-0.056	-0.060	0.334	0.355	94.357%	94.183%
σ		1.412%	0.031	0.009	0.005	0.041	0.036	2.130%	2.251%
%RSD		1.533	26.890	16.120	9.065	12.310	10.250	2.257	2.390

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:32	0.033	0.025	0.021	0.018	0.015	104.274%
2	22:33:51	0.038	0.027	0.018	0.015	0.017	100.989%
3	22:34:10	0.026	0.036	0.033	0.008	0.020	100.262%
x		0.032	0.029	0.024	0.014	0.017	101.842%
σ		0.006	0.006	0.008	0.005	0.003	2.137%
%RSD		18.580	20.700	34.060	35.670	16.260	2.098

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:20	117.419%	-0.046	9.170	7.141	0.000	8642.000	1085.000	1103.000
2	22:37:39	114.025%	0.038	7.134	6.968	0.000	8721.000	1117.000	1105.000
3	22:37:58	107.875%	-0.018	7.488	7.544	0.000	8718.000	1145.000	1152.000
x		113.106%	-0.009	7.931	7.218	0.000	8694.000	1116.000	1120.000
σ		4.838%	0.043	1.088	0.295	0.000	44.620	29.970	27.570
%RSD		4.277	489.300	13.720	4.091	0.000	0.513	2.687	2.461

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:20	37.310	1253.000	0.000	582.600	7162.000	6878.000	104.539%	0.165
2	22:37:39	36.860	1237.000	0.000	596.300	7374.000	7119.000	100.843%	0.139
3	22:37:58	38.620	1260.000	0.000	600.700	7563.000	7027.000	102.852%	0.157
x		37.600	1250.000	0.000	593.200	7366.000	7008.000	102.745%	0.154
σ		0.911	11.610	0.000	9.461	200.200	121.500	1.850%	0.013
%RSD		2.424	0.929	0.000	1.595	2.718	1.734	1.801	8.695

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:20	-0.207	0.293	9.380	1543.000	1506.000	0.095	7.027	58.290
2	22:37:39	-0.216	0.320	9.719	1579.000	1532.000	0.075	7.274	58.910
3	22:37:58	-0.101	0.333	9.419	1526.000	1484.000	0.087	6.955	57.800
x		-0.175	0.315	9.506	1549.000	1508.000	0.086	7.085	58.330
σ		0.064	0.021	0.186	26.800	24.060	0.010	0.168	0.552
%RSD		36.620	6.532	1.952	1.730	1.596	11.640	2.364	0.947

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:20	57.720	88.160	88.930	0.881	-0.042	0.077	0.000	26.780
2	22:37:39	59.030	91.490	92.520	0.698	-0.353	-0.013	0.000	26.890
3	22:37:58	57.870	89.610	89.830	0.809	-0.143	0.001	0.000	26.680
x		58.210	89.750	90.430	0.796	-0.179	0.022	0.000	26.780
σ		0.717	1.673	1.866	0.092	0.159	0.048	0.000	0.102
%RSD		1.232	1.864	2.063	11.610	88.620	224.400	0.000	0.383

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:20	92.957%	0.219	0.203	96.353%	-0.001	-0.008	0.100	0.074
2	22:37:39	93.888%	0.208	0.192	97.208%	-0.011	-0.001	0.066	0.060
3	22:37:58	94.317%	0.201	0.210	97.687%	0.002	0.003	0.050	0.071
x		93.720%	0.210	0.202	97.083%	-0.004	-0.002	0.072	0.068
σ		0.695%	0.009	0.009	0.676%	0.007	0.005	0.025	0.007
%RSD		0.742	4.399	4.507	0.696	195.100	281.100	35.370	10.730

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:20	91.816%	0.286	0.099	0.068	19.790	19.730	91.672%	91.657%
2	22:37:39	92.449%	0.281	0.090	0.086	20.410	20.010	93.124%	93.587%
3	22:37:58	93.943%	0.301	0.075	0.102	20.040	19.730	95.418%	94.903%
x		92.736%	0.289	0.088	0.086	20.080	19.820	93.405%	93.382%
σ		1.092%	0.011	0.012	0.017	0.310	0.164	1.889%	1.633%
%RSD		1.178	3.689	13.970	19.890	1.546	0.827	2.022	1.748

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:37:20	0.019	0.019	42.140	40.500	41.100	105.463%
2	22:37:39	0.026	0.019	44.930	42.940	43.710	101.134%
3	22:37:58	0.018	0.022	46.250	44.430	44.870	99.333%
x		0.021	0.020	44.440	42.620	43.230	101.977%
σ		0.004	0.002	2.095	1.988	1.934	3.151%
%RSD		20.150	9.993	4.715	4.663	4.474	3.090

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:08	112.087%	-0.045	8.671	8.062	0.000	8699.000	1012.000	1014.000
2	22:41:28	110.659%	-0.032	7.864	7.826	0.000	8674.000	988.100	1022.000
3	22:41:47	102.285%	-0.015	7.685	7.821	0.000	8667.000	1021.000	1019.000
x		108.343%	-0.031	8.074	7.903	0.000	8680.000	1007.000	1018.000
σ		5.295%	0.015	0.525	0.138	0.000	16.570	17.160	4.273
%RSD		4.888	48.770	6.508	1.742	0.000	0.191	1.704	0.420

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:08	21.440	1217.000	0.000	611.800	7104.000	6710.000	105.150%	0.142
2	22:41:28	21.150	1183.000	0.000	624.100	7286.000	6899.000	99.037%	0.085
3	22:41:47	21.580	1206.000	0.000	634.500	7205.000	6828.000	99.369%	0.200
x		21.390	1202.000	0.000	623.500	7198.000	6812.000	101.185%	0.142
σ		0.217	17.400	0.000	11.330	91.190	95.130	3.438%	0.057
%RSD		1.014	1.448	0.000	1.817	1.267	1.396	3.397	40.100

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:08	-0.113	0.114	8.735	146.600	165.700	0.046	1.913	6.586
2	22:41:28	0.032	0.124	9.212	153.300	174.300	0.048	1.829	6.941
3	22:41:47	0.062	0.131	9.135	149.200	170.200	0.050	2.068	6.579
x		-0.006	0.123	9.028	149.700	170.100	0.048	1.936	6.702
σ		0.094	0.009	0.256	3.408	4.301	0.002	0.121	0.207
%RSD		1479.000	7.165	2.839	2.277	2.529	3.356	6.263	3.088

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:08	6.541	8.329	8.544	0.320	-0.292	0.204	0.000	26.590
2	22:41:28	6.694	8.200	8.899	0.176	0.180	0.348	0.000	26.590
3	22:41:47	6.469	8.392	8.114	0.267	-0.079	0.178	0.000	26.610
x		6.568	8.307	8.519	0.254	-0.064	0.243	0.000	26.590
σ		0.115	0.098	0.393	0.073	0.236	0.092	0.000	0.010
%RSD		1.752	1.177	4.618	28.800	370.300	37.670	0.000	0.037

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:08	89.477%	0.329	0.261	92.556%	-0.021	-0.017	-0.005	0.001
2	22:41:28	90.479%	0.249	0.282	93.473%	-0.019	-0.011	0.003	0.001
3	22:41:47	90.670%	0.345	0.241	93.337%	-0.020	-0.014	0.012	0.018
x		90.208%	0.308	0.261	93.122%	-0.020	-0.014	0.003	0.006
σ		0.640%	0.052	0.021	0.495%	0.001	0.003	0.008	0.010
%RSD		0.710	16.830	7.878	0.531	6.766	20.470	274.400	150.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:08	87.667%	0.093	0.059	0.068	18.700	19.460	85.983%	84.792%
2	22:41:28	88.413%	0.113	0.038	0.049	19.080	19.000	88.025%	87.179%
3	22:41:47	88.936%	0.102	0.068	0.043	18.940	18.910	88.369%	87.269%
x		88.339%	0.102	0.055	0.053	18.910	19.120	87.459%	86.413%
σ		0.638%	0.010	0.016	0.013	0.191	0.298	1.290%	1.405%
%RSD		0.722	10.050	28.640	23.680	1.012	1.560	1.475	1.626

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:08	0.022	0.014	2.829	2.647	2.759	91.475%
2	22:41:28	0.023	0.023	2.972	2.859	2.920	88.890%
3	22:41:47	0.028	0.031	2.936	2.949	2.972	87.390%
x		0.024	0.023	2.912	2.818	2.884	89.252%
σ		0.003	0.008	0.074	0.155	0.111	2.066%
%RSD		11.870	37.340	2.555	5.497	3.847	2.315

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:57	104.678%	-0.029	0.671	0.757	0.000	4.837	1.483	1.368
2	22:45:17	105.503%	-0.055	0.596	0.665	0.000	3.156	1.185	1.147
3	22:45:36	107.058%	-0.043	0.589	0.837	0.000	2.951	1.035	1.110
x		105.746%	-0.042	0.619	0.753	0.000	3.648	1.234	1.208
σ		1.208%	0.013	0.045	0.086	0.000	1.035	0.228	0.139
%RSD		1.143	30.640	7.334	11.420	0.000	28.360	18.470	11.530

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:57	0.963	-126.600	0.000	1.560	15.050	7.797	98.518%	0.028
2	22:45:17	0.553	-126.700	0.000	-0.797	4.484	5.844	100.003%	0.027
3	22:45:36	0.531	-126.600	0.000	-0.629	0.391	7.435	96.079%	-0.017
x		0.682	-126.600	0.000	0.045	6.641	7.025	98.200%	0.013
σ		0.243	0.101	0.000	1.315	7.562	1.039	1.981%	0.026
%RSD		35.690	0.080	0.000	2944.000	113.900	14.790	2.018	202.500

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:57	-0.120	0.104	0.220	24.200	28.940	0.007	0.045	1.232
2	22:45:17	-0.030	0.081	0.220	24.640	27.900	-0.001	-0.001	1.215
3	22:45:36	0.156	0.101	0.226	24.410	27.390	0.006	0.046	1.290
x		0.002	0.095	0.222	24.420	28.080	0.004	0.030	1.246
σ		0.141	0.013	0.003	0.220	0.791	0.004	0.027	0.040
%RSD		8020.000	13.120	1.503	0.902	2.816	106.500	90.940	3.174

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:57	1.383	0.724	0.866	-0.093	-0.076	0.003	0.000	0.068
2	22:45:17	1.195	0.681	0.874	-0.066	-0.111	0.162	0.000	0.063
3	22:45:36	1.208	0.772	0.837	0.138	0.188	0.292	0.000	0.066
x		1.262	0.726	0.859	-0.007	0.000	0.152	0.000	0.066
σ		0.105	0.046	0.019	0.127	0.163	0.145	0.000	0.003
%RSD		8.350	6.295	2.236	1806.000	32880.000	94.950	0.000	4.011

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:57	90.442%	0.131	0.120	94.743%	-0.029	-0.019	-0.034	-0.026
2	22:45:17	91.935%	0.093	0.095	95.190%	-0.015	-0.021	0.003	0.006
3	22:45:36	92.704%	0.119	0.087	96.087%	-0.019	-0.016	0.009	0.008
x		91.694%	0.114	0.101	95.340%	-0.021	-0.019	-0.007	-0.004
σ		1.150%	0.020	0.017	0.685%	0.007	0.003	0.023	0.019
%RSD		1.254	17.310	16.890	0.718	33.530	13.270	322.300	513.100

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:57	89.775%	0.033	-0.078	-0.080	0.028	0.068	89.816%	90.030%
2	22:45:17	91.833%	-0.010	-0.073	-0.085	0.042	0.058	93.001%	92.910%
3	22:45:36	92.862%	-0.008	-0.087	-0.077	0.032	0.052	94.791%	94.283%
x		91.490%	0.005	-0.079	-0.081	0.034	0.060	92.536%	92.408%
σ		1.572%	0.024	0.007	0.004	0.007	0.008	2.520%	2.170%
%RSD		1.718	486.300	8.907	4.692	20.200	13.610	2.723	2.349

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:44:57	0.020	0.009	0.016	0.033	0.023	103.443%
2	22:45:17	0.012	0.007	0.022	0.034	0.027	99.447%
3	22:45:36	0.024	0.013	0.031	0.039	0.028	98.656%
x		0.019	0.010	0.023	0.035	0.026	100.515%
σ		0.006	0.003	0.008	0.003	0.002	2.566%
%RSD		33.260	28.690	33.350	9.066	8.970	2.553

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:47	121.870%	-0.047	0.199	0.284	0.000	-2.701	0.420	0.394
2	22:49:06	115.712%	-0.046	0.464	0.561	0.000	-3.396	0.071	0.264
3	22:49:25	116.986%	-0.023	0.520	0.430	0.000	-3.355	0.391	0.189
x		118.189%	-0.039	0.394	0.425	0.000	-3.151	0.294	0.282
σ		3.250%	0.014	0.172	0.139	0.000	0.390	0.194	0.103
%RSD		2.750	35.290	43.570	32.660	0.000	12.370	65.910	36.640
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:47	-0.702	-131.400	0.000	-2.052	4.091	-1.995	109.598%	-0.002
2	22:49:06	-0.838	-130.900	0.000	-2.288	-0.920	-0.868	108.380%	0.020
3	22:49:25	-0.607	-131.200	0.000	-1.617	-6.070	-1.482	106.894%	-0.022
x		-0.716	-131.200	0.000	-1.986	-0.966	-1.448	108.290%	-0.001
σ		0.116	0.262	0.000	0.341	5.081	0.564	1.354%	0.021
%RSD		16.270	0.199	0.000	17.160	525.800	38.960	1.251	1706.000
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:47	-0.073	-0.005	0.043	4.216	5.891	-0.000	-0.015	0.196
2	22:49:06	-0.013	-0.021	0.035	4.544	7.289	0.000	0.026	0.222
3	22:49:25	-0.031	0.009	0.043	3.878	6.093	-0.001	-0.002	0.223
x		-0.039	-0.006	0.040	4.213	6.424	-0.000	0.003	0.213
σ		0.031	0.015	0.005	0.333	0.756	0.001	0.021	0.015
%RSD		80.430	264.600	11.270	7.912	11.760	263.100	751.300	7.232
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:47	0.208	-0.113	-0.212	-0.029	0.137	-0.190	0.000	0.025
2	22:49:06	0.131	-0.304	-0.187	0.031	0.121	0.139	0.000	0.023
3	22:49:25	0.233	-0.233	-0.095	-0.117	0.053	0.070	0.000	0.017
x		0.191	-0.217	-0.165	-0.038	0.104	0.007	0.000	0.021
σ		0.054	0.097	0.062	0.075	0.045	0.173	0.000	0.004
%RSD		28.050	44.580	37.320	194.000	43.290	2657.000	0.000	17.720
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:47	96.938%	0.053	0.036	100.972%	-0.024	-0.019	0.030	0.018
2	22:49:06	98.356%	0.048	0.063	100.845%	-0.020	-0.019	0.031	0.018
3	22:49:25	99.335%	0.049	0.050	103.054%	-0.024	-0.019	0.012	0.011
x		98.210%	0.050	0.050	101.624%	-0.023	-0.019	0.024	0.016
σ		1.205%	0.003	0.013	1.241%	0.002	0.000	0.011	0.004
%RSD		1.227	5.090	26.960	1.221	9.311	2.521	43.870	24.740
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:48:47	94.860%	-0.087	-0.076	-0.089	0.017	0.004	92.499%	91.726%
2	22:49:06	96.605%	-0.127	-0.076	-0.089	-0.011	0.040	93.688%	93.519%
3	22:49:25	97.034%	-0.098	-0.083	-0.088	0.018	0.035	95.888%	95.341%
x		96.166%	-0.104	-0.078	-0.089	0.008	0.026	94.025%	93.528%
σ		1.152%	0.020	0.004	0.001	0.017	0.019	1.719%	1.807%
%RSD		1.197	19.430	5.080	1.065	209.000	73.690	1.829	1.932
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:48:47	0.018	0.008	-0.001	-0.008	-0.005	94.815%		
2	22:49:06	0.015	0.013	0.000	-0.005	-0.004	95.651%		
3	22:49:25	0.014	0.014	-0.007	-0.002	0.003	96.185%		
x		0.015	0.011	-0.002	-0.005	-0.002	95.550%		
σ		0.002	0.003	0.004	0.003	0.004	0.691%		
%RSD		14.910	29.790	155.100	60.950	195.900	0.723		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:24	120.399%	104.300	97.770	99.260	0.000	47990.000	48000.000	47790.000
2	22:52:43	116.197%	107.200	104.200	100.200	0.000	49380.000	50590.000	50060.000
3	22:53:02	114.667%	112.100	107.400	106.100	0.000	52490.000	52150.000	52820.000
x		117.087%	107.841%	103.117%	101.884%	0.000	99.905%	100.494%	100.452%
σ		2.968%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.535	3.660	4.763	3.655	0.000	4.618	4.177	5.019

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:24	460.800	4764.000	0.000	46820.000	45010.000	46140.000	123.696%	88.120
2	22:52:43	481.400	4993.000	0.000	49550.000	47270.000	48040.000	118.135%	93.850
3	22:53:02	512.500	5233.000	0.000	50510.000	48700.000	50530.000	116.852%	94.410
x		96.987%	99.937%	0.000	97.917%	93.990%	96.472%	119.561%	92.123%
σ		n/a	n/a	0.000	n/a	n/a	n/a	3.638%	n/a
%RSD		5.365	4.693	0.000	3.914	3.965	4.561	3.043	3.778

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:24	92.460	92.750	461.000	23700.000	23430.000	94.220	96.910	97.810
2	22:52:43	95.090	96.240	480.100	24780.000	24330.000	96.850	101.600	100.700
3	22:53:02	98.920	97.960	488.500	25090.000	24970.000	99.570	101.800	102.700
x		95.488%	95.648%	95.313%	98.097%	96.978%	96.876%	100.101%	100.381%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		3.400	2.777	2.958	2.969	3.186	2.761	2.758	2.442

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:24	97.670	92.170	94.260	97.310	102.300	102.500	0.000	93.120
2	22:52:43	100.900	95.420	96.120	99.670	102.900	103.100	0.000	94.780
3	22:53:02	102.700	97.700	101.000	101.000	103.600	104.900	0.000	96.220
x		100.416%	95.097%	97.123%	99.334%	102.948%	103.513%	0.000	94.707%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.539	2.922	3.574	1.891	0.613	1.217	0.000	1.638

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:24	96.701%	87.940	89.030	96.806%	93.360	94.560	93.870	94.600
2	22:52:43	98.492%	92.280	92.490	97.550%	95.590	96.090	95.460	96.590
3	22:53:02	98.726%	94.690	94.390	98.853%	96.430	97.800	96.460	97.510
x		97.973%	91.639%	91.969%	97.736%	95.130%	96.150%	95.263%	96.230%
σ		1.108%	n/a	n/a	1.036%	n/a	n/a	n/a	n/a
%RSD		1.131	3.729	2.957	1.060	1.667	1.685	1.368	1.545

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:24	90.823%	91.650	93.100	92.820	93.540	93.590	86.049%	84.130%
2	22:52:43	92.311%	93.940	94.980	94.640	95.390	94.550	88.680%	87.713%
3	22:53:02	91.945%	95.840	96.450	97.000	97.380	97.040	88.538%	87.410%
x		91.693%	93.809%	94.841%	94.818%	95.437%	95.060%	87.756%	86.418%
σ		0.775%	n/a	n/a	n/a	n/a	n/a	1.480%	1.987%
%RSD		0.845	2.235	1.769	2.212	2.011	1.873	1.687	2.300

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:24	98.790	102.400	99.190	100.000	100.100	94.111%
2	22:52:43	101.300	104.900	102.600	103.000	102.200	94.626%
3	22:53:02	102.300	105.700	103.700	103.800	103.500	95.176%
x		100.821%	104.356%	101.822%	102.297%	101.938%	94.638%
σ		n/a	n/a	n/a	n/a	n/a	0.533%
%RSD		1.814	1.635	2.297	1.953	1.706	0.563

CCB7 5/7/2015 10:59:04 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:23	120.611%	0.031	1.435	0.466	0.000	4.133	3.196	3.804
2	22:59:42	118.628%	-0.001	0.566	0.637	0.000	3.820	3.572	3.596
3	23:00:02	114.464%	-0.046	0.652	0.423	0.000	4.163	3.271	2.901
x		117.901%	-0.005	0.884	0.509	0.000	4.039	3.347	3.434
σ		3.137%	0.038	0.479	0.113	0.000	0.190	0.199	0.473
%RSD		2.661	720.400	54.190	22.240	0.000	4.696	5.937	13.770

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:23	0.236	-129.000	0.000	14.960	9.205	4.277	115.623%	0.005
2	22:59:42	0.206	-129.000	0.000	15.280	7.581	5.142	113.575%	0.006
3	23:00:02	0.213	-129.000	0.000	13.100	7.414	6.072	114.857%	-0.025
x		0.218	-129.000	0.000	14.450	8.066	5.164	114.685%	-0.005
σ		0.016	0.007	0.000	1.178	0.989	0.897	1.035%	0.017
%RSD		7.240	0.005	0.000	8.152	12.260	17.380	0.903	359.800

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:23	0.005	-0.017	0.059	3.045	6.126	0.011	0.031	-0.023
2	22:59:42	-0.022	-0.044	0.066	3.681	5.601	0.005	0.008	-0.027
3	23:00:02	0.003	-0.013	0.056	2.027	5.572	0.011	0.016	-0.034
x		-0.005	-0.025	0.060	2.917	5.766	0.009	0.018	-0.028
σ		0.015	0.017	0.005	0.834	0.312	0.004	0.012	0.005
%RSD		329.200	68.500	8.795	28.600	5.410	41.250	63.840	19.710

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:23	0.003	-0.109	0.143	0.038	0.183	0.057	0.000	0.040
2	22:59:42	0.028	-0.124	0.198	-0.025	0.048	-0.021	0.000	0.024
3	23:00:02	-0.001	0.126	0.149	-0.008	-0.061	-0.058	0.000	0.026
x		0.010	-0.035	0.164	0.002	0.057	-0.007	0.000	0.030
σ		0.016	0.140	0.030	0.033	0.122	0.059	0.000	0.009
%RSD		155.800	397.600	18.470	1858.000	215.700	811.400	0.000	28.910

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:23	108.563%	0.172	0.177	101.294%	-0.012	-0.004	0.089	0.063
2	22:59:42	110.458%	0.165	0.188	102.841%	-0.010	-0.004	0.039	0.033
3	23:00:02	111.337%	0.176	0.146	103.578%	-0.005	-0.006	0.057	0.043
x		110.119%	0.171	0.170	102.571%	-0.009	-0.005	0.062	0.046
σ		1.418%	0.006	0.022	1.166%	0.004	0.001	0.025	0.015
%RSD		1.287	3.416	12.840	1.136	40.630	25.540	41.040	32.550

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:23	90.985%	-0.118	-0.070	-0.075	0.027	0.016	82.738%	79.606%
2	22:59:42	92.560%	-0.127	-0.063	-0.062	0.025	0.009	85.648%	83.746%
3	23:00:02	94.320%	-0.129	-0.065	-0.060	0.035	0.011	86.917%	84.758%
x		92.622%	-0.125	-0.066	-0.066	0.029	0.012	85.101%	82.703%
σ		1.668%	0.006	0.004	0.008	0.006	0.003	2.142%	2.730%
%RSD		1.801	4.546	5.505	12.790	19.660	28.220	2.517	3.301

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:59:23	0.019	0.016	0.005	-0.005	0.005	77.696%
2	22:59:42	0.024	0.025	0.033	0.018	0.020	80.301%
3	23:00:02	0.017	0.024	0.019	0.004	0.008	82.446%
x		0.020	0.022	0.019	0.005	0.011	80.148%
σ		0.003	0.005	0.014	0.012	0.008	2.379%
%RSD		17.280	22.750	73.930	214.500	76.300	2.968

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:15	117.496%	-0.012	0.456	0.564	0.000	43.970	0.858	1.076
2	23:03:34	112.349%	-0.033	0.864	0.481	0.000	44.130	0.725	1.084
3	23:03:53	117.531%	-0.058	0.704	0.469	0.000	44.040	0.904	1.059
x		115.792%	-0.034	0.674	0.505	0.000	44.050	0.829	1.073
σ		2.982%	0.023	0.206	0.051	0.000	0.076	0.093	0.012
%RSD		2.575	67.490	30.520	10.180	0.000	0.172	11.230	1.152
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:15	-0.247	-124.000	0.000	8.499	-0.880	2.832	107.860%	-0.001
2	23:03:34	-0.103	-124.700	0.000	7.189	6.850	3.113	105.605%	0.022
3	23:03:53	-0.187	-124.500	0.000	7.942	5.199	2.818	102.101%	0.058
x		-0.179	-124.400	0.000	7.877	3.723	2.921	105.189%	0.026
σ		0.072	0.344	0.000	0.657	4.071	0.166	2.902%	0.030
%RSD		40.430	0.277	0.000	8.345	109.400	5.687	2.759	112.500
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:15	-0.185	0.144	0.037	2.275	3.730	-0.000	-0.017	0.105
2	23:03:34	-0.018	0.138	0.021	1.467	3.841	0.000	0.019	0.089
3	23:03:53	-0.196	0.148	0.024	2.643	4.459	-0.001	-0.012	0.103
x		-0.133	0.143	0.027	2.128	4.010	-0.000	-0.003	0.099
σ		0.100	0.005	0.009	0.602	0.393	0.001	0.019	0.009
%RSD		74.770	3.588	32.750	28.260	9.798	160.200	567.900	9.053
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:15	0.041	-0.156	-0.104	0.034	0.193	0.040	0.000	0.040
2	23:03:34	0.085	-0.051	0.195	-0.189	-0.036	0.176	0.000	0.037
3	23:03:53	0.070	0.129	0.284	0.110	0.107	0.123	0.000	0.027
x		0.066	-0.026	0.125	-0.015	0.088	0.113	0.000	0.035
σ		0.023	0.145	0.203	0.155	0.116	0.069	0.000	0.007
%RSD		34.710	552.800	162.500	1020.000	130.900	60.840	0.000	19.130
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:15	96.023%	0.103	0.111	100.049%	-0.016	-0.014	0.027	0.022
2	23:03:34	97.291%	0.123	0.128	100.454%	-0.022	-0.012	-0.016	-0.003
3	23:03:53	97.999%	0.134	0.091	100.980%	-0.019	-0.017	-0.005	-0.008
x		97.104%	0.120	0.110	100.494%	-0.019	-0.014	0.002	0.004
σ		1.001%	0.015	0.018	0.467%	0.003	0.002	0.022	0.016
%RSD		1.031	12.810	16.680	0.465	17.530	15.160	1329.000	411.100
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:03:15	94.228%	-0.063	-0.040	-0.042	0.037	0.027	91.171%	90.260%
2	23:03:34	95.517%	-0.113	-0.037	-0.054	0.023	0.029	94.869%	94.019%
3	23:03:53	96.682%	-0.086	-0.055	-0.043	0.022	0.033	95.840%	96.257%
x		95.476%	-0.087	-0.044	-0.046	0.028	0.030	93.960%	93.512%
σ		1.228%	0.025	0.010	0.007	0.008	0.003	2.463%	3.030%
%RSD		1.286	29.020	22.270	15.150	30.030	9.626	2.622	3.240
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:03:15	0.013	0.005	-0.017	-0.015	-0.018	120.182%		
2	23:03:34	0.008	0.010	-0.019	-0.016	-0.016	113.405%		
3	23:03:53	0.008	0.007	-0.010	-0.010	-0.012	108.457%		
x		0.009	0.007	-0.015	-0.014	-0.015	114.015%		
σ		0.003	0.003	0.004	0.003	0.003	5.886%		
%RSD		30.190	37.910	28.430	23.270	18.750	5.163		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:03	101.500%	-0.015	431.500	430.500	0.000	336600.000	41050.000	41600.000
2	23:07:22	97.661%	0.069	440.700	431.600	0.000	341200.000	41920.000	42560.000
3	23:07:41	95.881%	-0.011	436.800	428.100	0.000	336800.000	41510.000	42400.000
x		98.347%	0.014	436.300	430.000	0.000	338200.000	41490.000	42190.000
σ		2.871%	0.048	4.598	1.769	0.000	2619.000	434.900	517.900
%RSD		2.920	330.200	1.054	0.411	0.000	0.774	1.048	1.228

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:03	36.310	14370.000	0.000	13500.000	175200.000	173200.000	108.507%	2.317
2	23:07:22	37.440	14570.000	0.000	13630.000	179200.000	175400.000	106.626%	2.591
3	23:07:41	36.350	14320.000	0.000	13780.000	180100.000	175900.000	103.287%	2.431
x		36.700	14420.000	0.000	13640.000	178100.000	174800.000	106.140%	2.447
σ		0.643	129.800	0.000	136.600	2634.000	1482.000	2.644%	0.138
%RSD		1.751	0.900	0.000	1.002	1.479	0.848	2.491	5.623

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:03	0.016	0.037	35.590	850.900	1121.000	0.314	2.781	141.600
2	23:07:22	0.092	-0.004	35.530	855.500	1128.000	0.310	2.897	142.100
3	23:07:41	0.291	0.045	36.690	879.500	1168.000	0.310	2.768	145.700
x		0.133	0.026	35.930	861.900	1139.000	0.311	2.815	143.200
σ		0.142	0.026	0.652	15.360	25.290	0.002	0.071	2.244
%RSD		106.700	101.900	1.814	1.782	2.220	0.764	2.522	1.567

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:03	138.300	323.400	323.500	32.410	6.210	141.400	0.000	3202.000
2	23:07:22	140.200	324.500	329.200	31.820	5.731	140.100	0.000	3196.000
3	23:07:41	143.700	332.100	338.000	32.380	6.094	139.700	0.000	3227.000
x		140.700	326.700	330.200	32.200	6.012	140.400	0.000	3208.000
σ		2.740	4.755	7.258	0.331	0.250	0.875	0.000	16.440
%RSD		1.947	1.456	2.198	1.029	4.155	0.623	0.000	0.513

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:03	92.609%	11.990	12.040	92.369%	-0.009	-0.000	0.153	0.153
2	23:07:22	93.805%	11.970	12.130	92.837%	-0.003	-0.005	0.105	0.074
3	23:07:41	93.188%	12.180	11.990	94.045%	-0.011	0.002	0.004	0.051
x		93.201%	12.050	12.050	93.084%	-0.008	-0.001	0.087	0.093
σ		0.599%	0.116	0.069	0.865%	0.004	0.004	0.076	0.053
%RSD		0.642	0.964	0.572	0.929	49.950	268.700	87.030	57.710

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:03	89.554%	-0.042	23.490	23.340	223.600	224.600	90.849%	89.882%
2	23:07:22	90.083%	-0.048	23.600	23.740	227.200	227.700	92.398%	92.672%
3	23:07:41	90.422%	-0.031	24.190	23.910	229.300	226.600	94.839%	94.129%
x		90.020%	-0.040	23.760	23.660	226.700	226.300	92.695%	92.227%
σ		0.437%	0.009	0.376	0.289	2.903	1.598	2.011%	2.158%
%RSD		0.486	21.390	1.582	1.224	1.281	0.706	2.170	2.340

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:03	0.058	0.070	0.355	0.342	0.344	100.248%
2	23:07:22	0.071	0.074	0.381	0.322	0.347	96.149%
3	23:07:41	0.064	0.082	0.391	0.354	0.373	93.380%
x		0.064	0.075	0.376	0.339	0.354	96.592%
σ		0.007	0.006	0.018	0.017	0.016	3.455%
%RSD		10.800	8.288	4.918	4.892	4.573	3.577

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:49	97.799%	0.001	420.800	409.300	0.000	326000.000	39630.000	39410.000
2	23:11:08	98.178%	-0.026	405.400	405.900	0.000	319100.000	38340.000	39070.000
3	23:11:34	99.571%	0.040	404.200	412.300	0.000	326500.000	40180.000	40370.000
x		98.516%	0.005	410.100	409.200	0.000	323900.000	39380.000	39620.000
σ		0.933%	0.034	9.228	3.206	0.000	4156.000	947.600	671.600
%RSD		0.947	666.700	2.250	0.783	0.000	1.283	2.406	1.695

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:49	3.579	13910.000	0.000	12720.000	167900.000	159700.000	106.536%	1.988
2	23:11:08	3.866	13680.000	0.000	12510.000	154500.000	162400.000	104.772%	2.182
3	23:11:34	3.679	13550.000	0.000	13120.000	173700.000	165400.000	101.628%	2.024
x		3.708	13720.000	0.000	12780.000	165400.000	162500.000	104.312%	2.065
σ		0.145	181.400	0.000	308.500	9817.000	2837.000	2.486%	0.103
%RSD		3.918	1.322	0.000	2.413	5.936	1.746	2.383	5.010

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:49	0.307	0.042	9.884	172.000	493.600	0.248	2.639	107.000
2	23:11:08	0.016	0.009	10.120	174.600	500.000	0.249	2.727	106.200
3	23:11:34	0.028	0.054	10.170	170.100	486.800	0.256	2.498	105.900
x		0.117	0.035	10.060	172.200	493.500	0.251	2.622	106.400
σ		0.165	0.023	0.155	2.236	6.628	0.004	0.116	0.587
%RSD		140.700	66.930	1.543	1.298	1.343	1.641	4.404	0.552

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:49	105.900	150.400	151.000	31.760	5.571	140.200	0.000	3010.000
2	23:11:08	105.400	152.600	153.700	30.650	5.396	136.300	0.000	2987.000
3	23:11:34	105.700	152.500	155.100	29.920	5.592	131.000	0.000	2971.000
x		105.600	151.800	153.300	30.770	5.520	135.800	0.000	2989.000
σ		0.263	1.218	2.067	0.926	0.108	4.614	0.000	19.620
%RSD		0.249	0.802	1.348	3.010	1.948	3.397	0.000	0.657

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:49	89.064%	12.560	12.260	89.083%	-0.015	-0.014	0.072	0.061
2	23:11:08	90.707%	12.190	12.060	90.000%	-0.009	-0.012	0.057	0.056
3	23:11:34	90.742%	12.080	12.160	89.927%	-0.012	-0.015	0.046	0.035
x		90.171%	12.280	12.160	89.670%	-0.012	-0.014	0.058	0.050
σ		0.959%	0.249	0.103	0.510%	0.003	0.002	0.014	0.014
%RSD		1.064	2.029	0.844	0.568	26.760	14.200	23.180	27.500

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:49	85.814%	-0.108	23.130	23.230	197.100	196.800	87.168%	86.717%
2	23:11:08	86.361%	-0.063	22.940	22.930	199.400	197.600	89.706%	89.246%
3	23:11:34	86.782%	-0.063	23.330	23.020	199.200	199.400	90.743%	90.711%
x		86.319%	-0.078	23.130	23.060	198.600	197.900	89.206%	88.891%
σ		0.486%	0.026	0.195	0.155	1.255	1.351	1.839%	2.020%
%RSD		0.563	33.570	0.844	0.670	0.632	0.683	2.062	2.273

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:49	0.081	0.072	0.014	0.006	0.007	86.994%
2	23:11:08	0.078	0.077	0.014	0.020	0.015	84.617%
3	23:11:34	0.066	0.073	0.022	0.020	0.020	81.473%
x		0.075	0.074	0.017	0.016	0.014	84.362%
σ		0.008	0.002	0.005	0.008	0.006	2.769%
%RSD		10.450	2.960	27.910	51.020	45.930	3.283

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:45	99.298%	0.041	176.800	169.500	0.000	130500.000	18470.000	18510.000
2	23:15:05	92.429%	-0.052	183.900	184.400	0.000	138500.000	20060.000	20370.000
3	23:15:24	95.262%	-0.024	188.800	182.800	0.000	136200.000	19530.000	19980.000
x		95.663%	-0.012	183.200	178.900	0.000	135100.000	19350.000	19620.000
σ		3.452%	0.048	6.030	8.133	0.000	4125.000	808.400	981.500
%RSD		3.609	400.900	3.292	4.546	0.000	3.053	4.177	5.002

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:45	12.420	9865.000	0.000	5532.000	107900.000	111100.000	101.513%	1.718
2	23:15:05	13.830	10520.000	0.000	5863.000	114600.000	116800.000	100.138%	1.627
3	23:15:24	12.960	10180.000	0.000	5961.000	117000.000	118600.000	94.549%	1.589
x		13.070	10190.000	0.000	5786.000	113200.000	115500.000	98.733%	1.645
σ		0.707	326.500	0.000	224.600	4756.000	3896.000	3.688%	0.066
%RSD		5.407	3.206	0.000	3.882	4.203	3.373	3.736	4.034

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:45	0.150	0.093	20.970	479.500	675.900	0.192	1.853	148.600
2	23:15:05	0.175	0.159	22.320	500.300	698.700	0.184	2.357	157.000
3	23:15:24	-0.151	0.178	22.740	517.200	736.100	0.215	2.466	165.100
x		0.058	0.143	22.010	499.000	703.600	0.197	2.225	156.900
σ		0.181	0.045	0.926	18.890	30.370	0.016	0.327	8.234
%RSD		311.900	31.050	4.208	3.784	4.316	8.319	14.690	5.248

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:45	147.900	199.600	203.600	10.220	2.329	44.100	0.000	1838.000
2	23:15:05	157.000	210.300	213.600	10.430	2.678	44.580	0.000	1929.000
3	23:15:24	162.800	217.100	215.500	10.240	2.605	44.440	0.000	1959.000
x		155.900	209.000	210.900	10.300	2.537	44.370	0.000	1909.000
σ		7.506	8.814	6.424	0.117	0.184	0.250	0.000	62.780
%RSD		4.815	4.217	3.046	1.135	7.253	0.563	0.000	3.289

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:45	84.325%	3.753	3.831	89.821%	-0.010	-0.015	0.044	0.036
2	23:15:05	83.924%	3.927	3.915	88.557%	-0.005	-0.008	0.021	0.011
3	23:15:24	84.325%	4.069	4.035	89.141%	-0.009	-0.002	0.025	0.040
x		84.191%	3.916	3.927	89.173%	-0.008	-0.008	0.030	0.029
σ		0.232%	0.158	0.103	0.633%	0.002	0.007	0.012	0.016
%RSD		0.275	4.040	2.613	0.709	32.000	78.720	39.940	54.320

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:45	86.393%	-0.105	5.103	5.266	135.300	134.400	86.347%	85.279%
2	23:15:05	86.059%	-0.094	5.566	5.337	144.300	142.000	87.908%	87.509%
3	23:15:24	86.114%	-0.107	5.417	5.579	144.000	142.400	90.042%	89.618%
x		86.189%	-0.102	5.362	5.394	141.200	139.600	88.099%	87.469%
σ		0.179%	0.007	0.237	0.164	5.113	4.485	1.855%	2.170%
%RSD		0.208	6.848	4.412	3.042	3.622	3.212	2.106	2.481

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:45	0.061	0.050	0.606	0.502	0.543	83.804%
2	23:15:05	0.054	0.057	0.607	0.554	0.560	86.115%
3	23:15:24	0.052	0.062	0.641	0.553	0.596	83.459%
x		0.056	0.056	0.618	0.537	0.567	84.459%
σ		0.004	0.006	0.020	0.030	0.027	1.444%
%RSD		8.083	10.650	3.260	5.524	4.761	1.710

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:34	91.024%	-0.007	216.800	209.700	0.000	152900.000	21960.000	22530.000
2	23:18:53	90.718%	-0.022	213.800	203.200	0.000	153800.000	21810.000	22010.000
3	23:19:12	93.873%	-0.024	222.400	201.400	0.000	149500.000	21830.000	22000.000
x		91.872%	-0.018	217.600	204.800	0.000	152100.000	21870.000	22180.000
σ		1.740%	0.009	4.346	4.358	0.000	2262.000	77.000	305.500
%RSD		1.894	50.410	1.997	2.128	0.000	1.487	0.352	1.378
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:34	6.317	11670.000	0.000	6697.000	128400.000	131800.000	97.307%	2.127
2	23:18:53	6.223	11370.000	0.000	6743.000	130900.000	134600.000	95.445%	2.048
3	23:19:12	6.242	11550.000	0.000	6617.000	129800.000	135900.000	93.552%	1.552
x		6.261	11530.000	0.000	6686.000	129700.000	134100.000	95.435%	1.909
σ		0.050	152.200	0.000	63.850	1282.000	2062.000	1.878%	0.312
%RSD		0.798	1.320	0.000	0.955	0.988	1.538	1.968	16.320
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:34	0.171	0.155	12.140	196.600	444.700	0.187	2.327	144.700
2	23:18:53	-0.104	0.191	12.500	206.200	455.600	0.224	2.607	145.200
3	23:19:12	-0.070	0.204	12.630	204.000	455.500	0.203	2.391	144.700
x		-0.001	0.183	12.420	202.300	452.000	0.204	2.442	144.800
σ		0.150	0.026	0.254	5.015	6.260	0.019	0.147	0.313
%RSD		14520.000	13.950	2.045	2.479	1.385	9.167	6.024	0.216
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:34	143.000	151.800	154.700	12.590	2.642	55.140	0.000	2099.000
2	23:18:53	143.000	154.800	157.200	12.750	2.387	55.440	0.000	2102.000
3	23:19:12	144.000	153.700	157.200	12.520	2.416	53.750	0.000	2087.000
x		143.400	153.400	156.400	12.620	2.482	54.780	0.000	2096.000
σ		0.569	1.542	1.414	0.118	0.139	0.899	0.000	7.687
%RSD		0.397	1.005	0.904	0.934	5.619	1.642	0.000	0.367
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:34	87.777%	4.409	4.443	88.356%	-0.014	-0.011	0.067	0.053
2	23:18:53	87.913%	4.619	4.629	88.636%	-0.015	-0.016	-0.038	-0.015
3	23:19:12	89.440%	4.537	4.411	88.439%	-0.020	-0.015	0.010	0.034
x		88.377%	4.522	4.495	88.477%	-0.017	-0.014	0.013	0.024
σ		0.923%	0.106	0.118	0.144%	0.003	0.003	0.053	0.035
%RSD		1.044	2.337	2.622	0.162	17.060	20.440	397.600	147.100
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:18:34	86.631%	-0.121	6.259	6.286	153.400	153.300	89.463%	89.494%
2	23:18:53	87.468%	-0.102	6.347	6.363	156.100	155.300	91.665%	91.599%
3	23:19:12	88.511%	-0.116	6.256	6.491	155.300	154.700	93.146%	93.533%
x		87.536%	-0.113	6.287	6.380	154.900	154.500	91.425%	91.542%
σ		0.942%	0.010	0.052	0.104	1.400	1.033	1.853%	2.020%
%RSD		1.076	8.770	0.824	1.628	0.903	0.669	2.027	2.207
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:18:34	0.047	0.044	0.129	0.109	0.123	98.642%		
2	23:18:53	0.053	0.050	0.138	0.128	0.128	94.480%		
3	23:19:12	0.058	0.052	0.098	0.117	0.114	92.022%		
x		0.053	0.049	0.122	0.118	0.122	95.048%		
σ		0.006	0.004	0.021	0.010	0.007	3.346%		
%RSD		11.050	9.096	17.500	8.216	5.843	3.520		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:21	113.597%	0.003	1.172	0.852	0.000	25.050	3.857	3.495
2	23:22:40	114.123%	-0.033	0.731	1.214	0.000	22.050	3.345	3.434
3	23:23:00	107.962%	-0.081	1.697	1.037	0.000	18.720	2.768	3.346
x		111.894%	-0.037	1.200	1.034	0.000	21.940	3.323	3.425
σ		3.415%	0.042	0.484	0.181	0.000	3.166	0.545	0.075
%RSD		3.052	112.800	40.310	17.520	0.000	14.430	16.400	2.183

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:21	0.220	-122.000	0.000	-2.285	12.910	13.770	102.315%	0.036
2	23:22:40	0.135	-122.400	0.000	-1.950	1.133	11.500	99.269%	0.004
3	23:23:00	0.302	-123.500	0.000	-3.541	10.810	7.647	102.063%	0.058
x		0.219	-122.600	0.000	-2.592	8.285	10.970	101.216%	0.033
σ		0.084	0.794	0.000	0.839	6.283	3.098	1.690%	0.027
%RSD		38.330	0.648	0.000	32.360	75.830	28.230	1.670	82.520

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:21	-0.028	0.145	0.027	2.549	1.622	-0.002	-0.001	-0.027
2	23:22:40	-0.071	0.143	0.011	2.192	2.323	-0.004	0.004	-0.018
3	23:23:00	-0.041	0.154	0.022	0.761	1.563	-0.000	0.018	0.002
x		-0.047	0.147	0.020	1.834	1.836	-0.002	0.007	-0.014
σ		0.022	0.006	0.008	0.946	0.423	0.002	0.010	0.015
%RSD		47.020	4.121	40.260	51.590	23.040	73.870	142.600	105.300

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:21	0.004	0.046	0.076	0.092	0.008	0.571	0.000	0.224
2	23:22:40	0.022	0.016	-0.021	0.061	0.067	0.744	0.000	0.198
3	23:23:00	-0.012	-0.034	0.159	0.013	-0.306	0.602	0.000	0.177
x		0.005	0.009	0.071	0.055	-0.077	0.639	0.000	0.200
σ		0.017	0.040	0.090	0.040	0.201	0.093	0.000	0.023
%RSD		336.600	439.900	126.000	72.100	261.400	14.510	0.000	11.750

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:21	95.022%	0.057	0.036	98.563%	-0.024	-0.019	0.035	0.022
2	23:22:40	97.307%	0.037	0.031	99.990%	-0.021	-0.016	-0.033	-0.021
3	23:23:00	97.235%	0.049	0.026	100.852%	-0.025	-0.017	-0.013	-0.012
x		96.521%	0.048	0.031	99.802%	-0.023	-0.017	-0.004	-0.004
σ		1.299%	0.010	0.005	1.156%	0.002	0.002	0.034	0.023
%RSD		1.346	21.430	16.400	1.158	8.978	9.880	962.100	614.100

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:21	95.043%	-0.198	-0.072	-0.082	-0.011	0.016	95.651%	94.976%
2	23:22:40	96.920%	-0.190	-0.067	-0.077	-0.005	0.038	98.139%	97.171%
3	23:23:00	97.860%	-0.191	-0.072	-0.084	0.024	0.014	99.867%	99.412%
x		96.608%	-0.193	-0.070	-0.081	0.003	0.023	97.886%	97.186%
σ		1.434%	0.005	0.003	0.004	0.019	0.013	2.119%	2.218%
%RSD		1.485	2.375	4.068	4.844	704.500	58.810	2.165	2.283

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:21	0.004	-0.001	-0.019	-0.013	-0.018	108.817%
2	23:22:40	0.006	-0.001	-0.028	-0.014	-0.019	105.517%
3	23:23:00	0.006	0.003	-0.016	-0.022	-0.016	105.741%
x		0.005	0.000	-0.021	-0.016	-0.018	106.692%
σ		0.001	0.002	0.007	0.005	0.002	1.844%
%RSD		14.830	645.800	31.110	32.310	9.488	1.729

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:26:09	114.534%	0.002	0.844	0.837	0.000	34.670	1.592	1.292
2	23:26:28	117.029%	-0.023	0.703	0.618	0.000	31.400	0.897	1.266
3	23:26:48	114.524%	0.038	0.538	0.910	0.000	31.110	0.934	1.130
x		115.362%	0.005	0.695	0.788	0.000	32.390	1.141	1.229
σ		1.444%	0.030	0.153	0.152	0.000	1.979	0.391	0.087
%RSD		1.251	559.100	21.980	19.280	0.000	6.109	34.290	7.101

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:26:09	0.991	-114.400	0.000	7.983	2.318	2.417	107.522%	-0.032
2	23:26:28	1.220	-116.300	0.000	7.679	-0.723	3.428	106.210%	0.054
3	23:26:48	0.962	-115.800	0.000	9.955	9.848	2.297	101.038%	-0.008
x		1.058	-115.500	0.000	8.539	3.814	2.714	104.923%	0.004
σ		0.142	0.977	0.000	1.236	5.442	0.621	3.428%	0.044
%RSD		13.390	0.846	0.000	14.470	142.700	22.890	3.267	1000.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:26:09	0.064	0.164	0.141	25.600	28.350	0.001	0.032	0.215
2	23:26:28	-0.170	0.095	0.133	27.880	29.430	0.002	-0.000	0.217
3	23:26:48	0.107	0.141	0.153	27.930	31.920	-0.003	0.023	0.208
x		0.000	0.133	0.142	27.140	29.900	0.000	0.018	0.213
σ		0.149	0.035	0.010	1.333	1.831	0.003	0.016	0.005
%RSD		38940.000	26.030	6.981	4.912	6.122	4849.000	91.590	2.309

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:26:09	0.235	0.563	0.619	0.113	-0.101	0.368	0.000	0.090
2	23:26:28	0.221	0.495	0.449	0.130	0.026	0.371	0.000	0.078
3	23:26:48	0.266	0.374	0.487	0.076	-0.028	0.265	0.000	0.078
x		0.241	0.477	0.518	0.107	-0.034	0.335	0.000	0.082
σ		0.023	0.096	0.089	0.027	0.063	0.060	0.000	0.007
%RSD		9.736	20.040	17.230	25.740	185.700	18.030	0.000	8.295

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:26:09	94.207%	0.058	0.054	98.402%	-0.021	-0.020	0.021	0.014
2	23:26:28	95.777%	0.036	0.042	98.536%	-0.025	-0.016	0.054	0.040
3	23:26:48	96.689%	0.050	0.052	99.425%	-0.022	-0.020	0.007	0.001
x		95.558%	0.048	0.049	98.788%	-0.023	-0.019	0.027	0.018
σ		1.255%	0.011	0.006	0.556%	0.002	0.002	0.024	0.019
%RSD		1.314	23.100	12.670	0.563	7.792	10.750	88.150	104.800

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:26:09	92.554%	-0.122	-0.049	-0.068	0.046	0.023	91.855%	91.176%
2	23:26:28	94.098%	-0.121	-0.064	-0.060	0.040	0.041	94.498%	92.964%
3	23:26:48	94.541%	-0.052	-0.064	-0.063	0.054	0.029	95.816%	95.058%
x		93.731%	-0.098	-0.059	-0.064	0.046	0.031	94.056%	93.066%
σ		1.043%	0.040	0.008	0.004	0.007	0.009	2.017%	1.943%
%RSD		1.113	40.940	14.080	6.289	15.680	29.470	2.145	2.088

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:26:09	-0.000	0.000	-0.006	-0.018	-0.009	105.588%
2	23:26:28	0.004	0.000	0.001	-0.010	-0.008	100.648%
3	23:26:48	0.003	0.003	-0.002	-0.016	-0.009	98.538%
x		0.002	0.001	-0.003	-0.015	-0.009	101.591%
σ		0.002	0.001	0.004	0.004	0.001	3.619%
%RSD		99.390	130.500	132.100	29.860	8.673	3.562

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:05	107.496%	-0.018	0.646	0.620	0.000	0.162	1.112	0.756
2	23:33:25	103.965%	-0.042	1.360	0.722	0.000	-0.905	0.512	0.681
3	23:33:44	108.129%	0.007	0.978	0.732	0.000	-0.643	0.597	0.604
x		106.530%	-0.018	0.995	0.691	0.000	-0.462	0.740	0.680
σ		2.244%	0.024	0.358	0.062	0.000	0.556	0.324	0.076
%RSD		2.106	137.800	35.940	8.970	0.000	120.500	43.790	11.150

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:05	0.439	-126.700	0.000	-0.821	-4.782	1.680	103.377%	-0.009
2	23:33:25	0.171	-127.600	0.000	2.153	-2.131	-0.341	98.126%	-0.029
3	23:33:44	0.456	-127.200	0.000	-0.099	3.810	-1.424	96.726%	0.041
x		0.355	-127.200	0.000	0.411	-1.034	-0.028	99.409%	0.001
σ		0.159	0.428	0.000	1.551	4.399	1.575	3.506%	0.037
%RSD		44.890	0.337	0.000	377.200	425.300	5614.000	3.527	3851.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:05	-0.038	0.082	0.131	4.624	7.815	-0.004	-0.007	0.042
2	23:33:25	0.007	0.109	0.142	5.143	6.955	-0.003	-0.038	0.048
3	23:33:44	-0.029	0.113	0.153	4.980	5.958	-0.004	-0.038	0.068
x		-0.020	0.101	0.142	4.916	6.909	-0.003	-0.028	0.053
σ		0.024	0.017	0.011	0.265	0.929	0.000	0.018	0.013
%RSD		117.800	16.940	7.893	5.397	13.450	12.870	65.800	25.320

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:05	0.013	-0.197	-0.054	-0.151	-0.262	0.252	0.000	0.031
2	23:33:25	0.062	-0.148	0.145	-0.031	-0.176	0.297	0.000	0.015
3	23:33:44	0.050	0.193	0.293	0.126	0.094	0.136	0.000	0.021
x		0.042	-0.051	0.128	-0.019	-0.115	0.228	0.000	0.022
σ		0.025	0.213	0.174	0.139	0.186	0.083	0.000	0.008
%RSD		61.210	420.200	135.800	743.000	162.000	36.380	0.000	36.140

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:05	91.273%	0.004	0.029	94.036%	-0.023	-0.021	0.018	0.008
2	23:33:25	91.980%	0.030	0.023	94.334%	-0.024	-0.018	0.004	0.003
3	23:33:44	93.789%	0.031	0.017	96.530%	-0.025	-0.019	0.008	0.010
x		92.348%	0.022	0.023	94.967%	-0.024	-0.019	0.010	0.007
σ		1.297%	0.015	0.006	1.362%	0.001	0.001	0.007	0.003
%RSD		1.405	69.480	25.840	1.434	3.290	7.466	69.250	45.890

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:05	90.300%	-0.118	-0.059	-0.080	-0.001	0.018	89.915%	89.204%
2	23:33:25	91.808%	-0.132	-0.075	-0.075	0.041	0.011	93.313%	93.212%
3	23:33:44	92.543%	-0.147	-0.068	-0.082	0.009	0.013	94.055%	94.222%
x		91.550%	-0.132	-0.067	-0.079	0.017	0.014	92.428%	92.213%
σ		1.144%	0.014	0.008	0.004	0.022	0.003	2.208%	2.654%
%RSD		1.249	10.940	11.900	4.671	131.000	22.890	2.388	2.878

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:33:05	0.005	-0.001	0.036	0.031	0.034	104.247%
2	23:33:25	0.005	-0.002	0.025	0.017	0.031	100.291%
3	23:33:44	0.006	0.003	0.056	0.037	0.042	99.011%
x		0.005	0.000	0.039	0.028	0.036	101.183%
σ		0.000	0.003	0.016	0.010	0.006	2.730%
%RSD		6.810	2685.000	40.480	35.490	16.110	2.698

LCS 180-140451/2-A 5/7/2015 11:36:34 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:53	107.429%	48.840	896.400	888.200	0.000	45450.000	44490.000	45220.000
2	23:37:12	108.267%	47.130	893.400	889.300	0.000	44240.000	44560.000	45450.000
3	23:37:32	103.164%	47.440	924.500	861.600	0.000	46980.000	46140.000	46320.000
x		106.287%	47.800	904.800	879.700	0.000	45560.000	45060.000	45660.000
σ		2.737%	0.913	17.150	15.680	0.000	1376.000	932.100	579.300
%RSD		2.575	1.909	1.896	1.782	0.000	3.020	2.069	1.269

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:53	1814.000	9150.000	0.000	47220.000	46520.000	46560.000	98.801%	907.200
2	23:37:12	1830.000	8962.000	0.000	46840.000	47350.000	48220.000	98.252%	908.500
3	23:37:32	1879.000	9230.000	0.000	47750.000	48400.000	48600.000	98.401%	921.800
x		1841.000	9114.000	0.000	47270.000	47420.000	47790.000	98.485%	912.500
σ		34.180	137.500	0.000	457.000	945.200	1083.000	0.284%	8.104
%RSD		1.857	1.509	0.000	0.967	1.993	2.266	0.288	0.888

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:53	463.400	186.200	460.200	952.000	1003.000	476.600	485.500	242.600
2	23:37:12	470.100	188.100	462.400	952.400	1023.000	479.100	479.400	239.400
3	23:37:32	486.500	190.500	469.000	964.800	1020.000	475.700	478.600	238.300
x		473.300	188.200	463.900	956.400	1016.000	477.100	481.200	240.100
σ		11.870	2.174	4.616	7.297	11.070	1.759	3.765	2.259
%RSD		2.507	1.155	0.995	0.763	1.090	0.369	0.782	0.941

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:53	240.000	466.500	469.600	36.610	9.598	9.302	0.000	946.100
2	23:37:12	238.000	476.500	473.200	36.960	9.325	9.436	0.000	946.100
3	23:37:32	233.800	473.200	470.000	37.150	10.050	9.853	0.000	950.700
x		237.300	472.000	470.900	36.910	9.657	9.530	0.000	947.600
σ		3.174	5.067	1.967	0.276	0.365	0.287	0.000	2.654
%RSD		1.338	1.073	0.418	0.746	3.775	3.017	0.000	0.280

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:53	92.376%	923.300	934.000	91.858%	45.390	45.800	46.710	40.100
2	23:37:12	93.918%	933.900	942.900	93.525%	45.320	45.860	46.460	39.900
3	23:37:32	94.058%	932.800	953.900	93.896%	45.610	45.840	47.280	39.350
x		93.451%	930.000	943.600	93.093%	45.440	45.830	46.820	39.780
σ		0.933%	5.822	9.977	1.085%	0.149	0.031	0.419	0.388
%RSD		0.999	0.626	1.057	1.166	0.328	0.068	0.895	0.976

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:53	89.014%	1943.000	474.300	471.100	1776.000	1830.000	92.598%	92.271%
2	23:37:12	90.801%	1943.000	472.200	474.300	1783.000	1840.000	93.946%	94.282%
3	23:37:32	92.720%	1960.000	472.400	472.300	1793.000	1822.000	95.133%	95.472%
x		90.845%	1949.000	473.000	472.600	1784.000	1831.000	93.892%	94.008%
σ		1.853%	10.220	1.136	1.633	8.403	9.094	1.268%	1.618%
%RSD		2.040	0.525	0.240	0.345	0.471	0.497	1.351	1.721

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:53	43.820	45.760	20.760	20.960	20.810	95.927%
2	23:37:12	46.810	49.330	21.720	21.780	21.640	94.758%
3	23:37:32	48.480	51.090	22.110	22.200	22.090	94.593%
x		46.370	48.730	21.530	21.650	21.510	95.093%
σ		2.362	2.713	0.696	0.634	0.653	0.727%
%RSD		5.094	5.567	3.232	2.928	3.038	0.765

LCSD 180-140451/3-A 5/7/2015 11:40:23 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:42	107.302%	46.850	942.400	903.800	0.000	47100.000	46300.000	46130.000
2	23:41:01	106.274%	48.980	896.900	894.200	0.000	46810.000	45650.000	46360.000
3	23:41:20	110.380%	45.840	892.700	890.000	0.000	45050.000	44690.000	45930.000
x		107.985%	47.230	910.700	896.000	0.000	46320.000	45550.000	46140.000
σ		2.137%	1.601	27.550	7.071	0.000	1107.000	814.300	215.600
%RSD		1.979	3.389	3.026	0.789	0.000	2.390	1.788	0.467

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:42	1845.000	9401.000	0.000	47010.000	45630.000	46840.000	104.839%	896.700
2	23:41:01	1851.000	9175.000	0.000	48710.000	47780.000	48590.000	99.294%	918.900
3	23:41:20	1864.000	9341.000	0.000	47910.000	47850.000	48650.000	103.116%	923.000
x		1853.000	9306.000	0.000	47880.000	47090.000	48030.000	102.416%	912.900
σ		9.937	116.800	0.000	850.400	1264.000	1026.000	2.838%	14.140
%RSD		0.536	1.255	0.000	1.776	2.685	2.137	2.771	1.549

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:42	473.300	186.400	461.100	961.800	1018.000	472.000	479.000	235.500
2	23:41:01	484.600	187.400	468.800	975.600	1021.000	478.200	482.700	240.700
3	23:41:20	486.600	189.500	467.800	974.300	1020.000	485.700	477.300	238.100
x		481.500	187.800	465.900	970.600	1020.000	478.600	479.700	238.100
σ		7.183	1.573	4.192	7.594	1.494	6.860	2.764	2.586
%RSD		1.492	0.838	0.900	0.782	0.146	1.433	0.576	1.086

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:42	236.700	462.800	464.000	37.260	9.577	10.230	0.000	954.400
2	23:41:01	240.200	480.800	482.200	36.940	9.994	9.974	0.000	956.500
3	23:41:20	237.300	465.500	473.500	37.140	9.417	10.580	0.000	961.300
x		238.100	469.700	473.200	37.110	9.663	10.260	0.000	957.400
σ		1.867	9.747	9.105	0.161	0.298	0.304	0.000	3.514
%RSD		0.784	2.075	1.924	0.434	3.083	2.961	0.000	0.367

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:42	93.412%	918.100	945.200	93.800%	45.580	46.310	47.110	40.050
2	23:41:01	94.207%	935.000	967.000	94.273%	46.070	46.600	48.110	40.410
3	23:41:20	94.177%	943.700	966.400	94.425%	45.530	45.770	47.540	40.400
x		93.932%	932.300	959.500	94.166%	45.730	46.230	47.590	40.290
σ		0.451%	13.010	12.410	0.326%	0.296	0.420	0.498	0.203
%RSD		0.480	1.396	1.294	0.346	0.647	0.908	1.047	0.504

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:42	89.662%	1955.000	465.000	468.600	1830.000	1867.000	91.422%	92.020%
2	23:41:01	90.303%	1974.000	475.100	472.500	1837.000	1874.000	93.953%	94.058%
3	23:41:20	92.093%	1973.000	469.300	468.700	1826.000	1859.000	94.571%	95.330%
x		90.686%	1968.000	469.800	469.900	1831.000	1867.000	93.315%	93.803%
σ		1.260%	10.440	5.100	2.208	5.597	7.223	1.669%	1.670%
%RSD		1.389	0.531	1.085	0.470	0.306	0.387	1.788	1.780

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:40:42	44.240	46.590	20.130	20.330	20.080	99.497%
2	23:41:01	47.910	49.890	21.410	21.360	21.360	96.236%
3	23:41:20	49.760	52.160	21.610	22.290	22.020	94.398%
x		47.300	49.550	21.050	21.330	21.150	96.711%
σ		2.810	2.802	0.803	0.983	0.988	2.582%
%RSD		5.940	5.654	3.814	4.611	4.671	2.670

CCV 1558997 5/7/2015 11:44:19 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:19	121.925%	101.200	94.080	95.580	0.000	48060.000	47520.000	47700.000
2	23:44:38	119.517%	99.220	95.620	98.360	0.000	48410.000	48710.000	48760.000
3	23:44:58	118.773%	99.320	95.430	96.790	0.000	47570.000	47250.000	47980.000
x		120.071%	99.926%	95.044%	96.911%	0.000	96.032%	95.653%	96.289%
σ		1.648%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.372	1.133	0.886	1.435	0.000	0.878	1.620	1.145

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:19	457.700	4885.000	0.000	47290.000	45420.000	46300.000	120.561%	90.160
2	23:44:38	459.700	4905.000	0.000	47960.000	45860.000	48000.000	116.802%	88.080
3	23:44:58	465.700	4874.000	0.000	48780.000	47320.000	48490.000	114.850%	94.320
x		92.212%	97.759%	0.000	96.019%	92.397%	95.195%	117.404%	90.852%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.903%	n/a
%RSD		0.906	0.331	0.000	1.547	2.153	2.410	2.472	3.500

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:19	92.850	92.620	469.400	23620.000	23390.000	92.600	96.510	96.710
2	23:44:38	94.050	94.880	471.900	24190.000	23930.000	93.620	95.970	97.190
3	23:44:58	95.740	96.240	484.700	24630.000	24630.000	96.420	98.670	98.970
x		94.213%	94.580%	95.065%	96.581%	95.941%	94.211%	97.053%	97.622%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.536	1.934	1.720	2.092	2.593	2.100	1.471	1.221

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:19	96.720	92.920	93.360	99.090	100.300	101.800	0.000	94.510
2	23:44:38	99.450	96.420	97.270	100.000	103.100	103.000	0.000	94.820
3	23:44:58	98.070	96.350	96.980	99.840	102.300	100.800	0.000	94.870
x		98.084%	95.229%	95.871%	99.644%	101.911%	101.854%	0.000	94.733%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.391	2.100	2.275	0.490	1.406	1.075	0.000	0.208

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:19	93.624%	95.980	95.190	95.487%	92.910	93.300	93.340	94.240
2	23:44:38	94.696%	97.190	97.250	96.087%	94.020	94.810	94.450	96.120
3	23:44:58	95.907%	97.890	97.160	96.116%	94.250	95.600	95.280	96.270
x		94.742%	97.020%	96.538%	95.897%	93.726%	94.567%	94.356%	95.545%
σ		1.142%	n/a	n/a	0.355%	n/a	n/a	n/a	n/a
%RSD		1.205	0.994	1.206	0.370	0.765	1.235	1.032	1.186

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:19	89.109%	94.960	92.640	93.990	93.390	93.750	83.633%	81.560%
2	23:44:38	89.822%	96.250	95.280	95.500	97.750	95.140	86.607%	84.957%
3	23:44:58	90.996%	96.460	95.930	95.650	97.270	95.580	87.562%	85.906%
x		89.976%	95.892%	94.619%	95.049%	96.138%	94.824%	85.934%	84.141%
σ		0.952%	n/a	n/a	n/a	n/a	n/a	2.049%	2.285%
%RSD		1.059	0.849	1.842	0.964	2.485	1.007	2.385	2.716

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:44:19	102.800	106.000	101.300	101.700	101.300	84.715%
2	23:44:38	105.700	109.100	104.400	104.000	104.200	85.931%
3	23:44:58	106.500	109.900	106.100	105.800	105.500	86.094%
x		105.008%	108.340%	103.960%	103.831%	103.655%	85.580%
σ		n/a	n/a	n/a	n/a	n/a	0.753%
%RSD		1.879	1.886	2.332	2.025	2.073	0.880

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:19	116.590%	-0.011	1.983	1.430	0.000	4.453	3.613	3.818
2	23:51:39	117.145%	-0.000	1.547	1.545	0.000	4.065	3.604	3.486
3	23:51:58	117.373%	-0.023	1.786	1.840	0.000	4.074	3.354	3.228
x		117.036%	-0.012	1.772	1.605	0.000	4.197	3.523	3.511
σ		0.403%	0.012	0.218	0.212	0.000	0.221	0.147	0.295
%RSD		0.344	99.310	12.320	13.180	0.000	5.275	4.179	8.418
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:19	0.141	-125.700	0.000	14.830	15.390	5.143	109.971%	0.029
2	23:51:39	0.220	-126.500	0.000	12.730	0.875	6.349	111.024%	0.110
3	23:51:58	0.382	-126.500	0.000	11.910	10.030	3.822	111.082%	0.059
x		0.247	-126.200	0.000	13.150	8.764	5.105	110.693%	0.066
σ		0.123	0.449	0.000	1.505	7.338	1.264	0.625%	0.041
%RSD		49.590	0.356	0.000	11.440	83.730	24.760	0.565	62.320
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:19	0.011	-0.047	0.076	5.767	8.355	0.009	0.030	-0.011
2	23:51:39	0.018	-0.015	0.078	6.211	5.897	0.007	0.078	-0.018
3	23:51:58	0.022	0.001	0.074	5.665	5.399	0.010	0.039	-0.006
x		0.017	-0.020	0.076	5.881	6.550	0.008	0.049	-0.012
σ		0.006	0.024	0.002	0.290	1.583	0.002	0.025	0.006
%RSD		33.980	121.500	2.205	4.932	24.160	21.420	51.700	54.680
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:19	-0.006	0.247	0.286	0.049	0.592	0.250	0.000	0.034
2	23:51:39	0.013	0.192	0.200	0.018	0.615	0.105	0.000	0.034
3	23:51:58	0.033	0.261	0.322	-0.007	0.381	0.205	0.000	0.026
x		0.013	0.233	0.270	0.020	0.529	0.187	0.000	0.031
σ		0.019	0.037	0.062	0.028	0.129	0.074	0.000	0.004
%RSD		148.400	15.710	23.180	142.200	24.370	39.730	0.000	14.270
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:19	100.068%	0.586	0.543	103.122%	-0.008	-0.004	0.068	0.046
2	23:51:39	101.238%	0.555	0.531	104.190%	0.002	-0.001	0.044	0.042
3	23:51:58	103.907%	0.469	0.484	106.046%	-0.011	-0.004	0.044	0.029
x		101.738%	0.537	0.520	104.453%	-0.006	-0.003	0.052	0.039
σ		1.968%	0.061	0.031	1.480%	0.007	0.002	0.014	0.009
%RSD		1.934	11.280	5.965	1.417	114.500	63.310	26.070	22.960
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:51:19	95.393%	0.122	-0.065	-0.064	0.014	0.008	88.452%	86.531%
2	23:51:39	97.326%	0.141	-0.054	-0.074	-0.015	0.024	90.346%	88.719%
3	23:51:58	97.834%	0.133	-0.062	-0.059	0.020	0.015	91.313%	90.225%
x		96.851%	0.132	-0.060	-0.066	0.006	0.015	90.037%	88.492%
σ		1.288%	0.009	0.006	0.008	0.018	0.008	1.455%	1.858%
%RSD		1.330	7.034	9.954	12.190	284.500	53.610	1.616	2.099
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:51:19	0.170	0.204	0.018	0.007	0.012	86.694%		
2	23:51:39	0.195	0.190	0.021	0.008	0.008	88.137%		
3	23:51:58	0.192	0.190	0.016	0.010	0.011	89.911%		
x		0.186	0.195	0.019	0.008	0.010	88.247%		
σ		0.014	0.008	0.002	0.002	0.002	1.612%		
%RSD		7.547	4.117	12.860	20.320	22.180	1.826		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:11	99.839%	-0.014	2574.000	2575.000	0.000	450900.000	38280.000	37950.000
2	23:55:30	99.764%	-0.027	2515.000	2531.000	0.000	456500.000	38510.000	38820.000
3	23:55:49	98.257%	-0.013	2511.000	2373.000	0.000	437000.000	37440.000	37440.000
x		99.287%	-0.018	2533.000	2493.000	0.000	448100.000	38070.000	38070.000
σ		0.892%	0.008	35.230	106.300	0.000	10020.000	564.900	695.200
%RSD		0.899	45.340	1.391	4.263	0.000	2.236	1.484	1.826

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:11	2.396	5147.000	0.000	2853.000	79530.000	83120.000	102.043%	0.238
2	23:55:30	2.318	5212.000	0.000	2881.000	80610.000	83750.000	101.252%	0.420
3	23:55:49	2.164	4967.000	0.000	2873.000	80170.000	83340.000	100.135%	0.539
x		2.293	5109.000	0.000	2869.000	80100.000	83400.000	101.143%	0.399
σ		0.118	127.200	0.000	14.000	545.000	318.300	0.959%	0.152
%RSD		5.166	2.489	0.000	0.488	0.680	0.382	0.948	37.990

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:11	0.055	0.224	68.030	158.200	331.400	0.091	0.012	2.160
2	23:55:30	0.125	0.253	68.270	158.500	321.700	0.079	0.056	2.276
3	23:55:49	-0.110	0.252	69.750	167.400	328.400	0.082	0.132	2.372
x		0.023	0.243	68.690	161.300	327.200	0.084	0.067	2.269
σ		0.121	0.017	0.933	5.204	4.948	0.006	0.061	0.106
%RSD		518.600	6.799	1.358	3.225	1.513	7.338	91.060	4.668

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:11	0.549	0.641	0.585	0.108	-0.391	0.262	0.000	2333.000
2	23:55:30	0.555	0.785	0.423	0.215	-0.169	0.054	0.000	2313.000
3	23:55:49	0.642	0.611	0.463	0.304	0.144	-0.020	0.000	2326.000
x		0.582	0.679	0.490	0.209	-0.139	0.099	0.000	2324.000
σ		0.052	0.093	0.084	0.099	0.269	0.146	0.000	10.070
%RSD		8.939	13.700	17.220	47.150	194.000	147.700	0.000	0.434

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:11	88.945%	4.248	3.996	89.923%	-0.014	-0.013	-0.000	0.008
2	23:55:30	90.462%	4.070	4.084	90.151%	-0.020	-0.021	0.049	0.029
3	23:55:49	91.356%	3.876	4.133	91.497%	-0.016	-0.012	0.028	0.025
x		90.254%	4.065	4.071	90.524%	-0.017	-0.015	0.026	0.021
σ		1.219%	0.186	0.069	0.851%	0.003	0.005	0.025	0.011
%RSD		1.350	4.581	1.697	0.940	17.770	31.730	96.140	54.340

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:11	86.014%	0.381	-0.047	-0.048	22.850	23.040	87.770%	87.282%
2	23:55:30	87.574%	0.372	-0.048	-0.042	23.350	22.910	90.081%	89.751%
3	23:55:49	88.392%	0.344	-0.028	-0.032	23.130	23.120	91.342%	91.495%
x		87.326%	0.366	-0.041	-0.041	23.110	23.020	89.731%	89.510%
σ		1.208%	0.020	0.012	0.008	0.247	0.102	1.812%	2.117%
%RSD		1.383	5.335	28.160	19.470	1.069	0.445	2.019	2.365

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:11	0.107	0.103	0.051	0.065	0.052	102.460%
2	23:55:30	0.104	0.104	0.058	0.042	0.057	96.836%
3	23:55:49	0.109	0.117	0.060	0.072	0.060	94.122%
x		0.107	0.108	0.057	0.060	0.056	97.806%
σ		0.003	0.008	0.005	0.016	0.004	4.253%
%RSD		2.707	7.381	8.455	26.970	6.649	4.348

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:59:00	115.286%	-0.057	545.400	502.400	0.000	88840.000	7291.000	7335.000
2	23:59:20	113.670%	-0.069	533.400	517.200	0.000	91020.000	7384.000	7411.000
3	23:59:39	106.510%	-0.056	536.200	528.400	0.000	91780.000	7548.000	7580.000
x		111.822%	-0.061	538.300	516.000	0.000	90550.000	7408.000	7442.000
σ		4.670%	0.007	6.302	13.070	0.000	1524.000	129.800	125.700
%RSD		4.177	11.890	1.171	2.533	0.000	1.683	1.753	1.689
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:59:00	-0.049	873.100	0.000	553.900	15990.000	15980.000	110.979%	0.069
2	23:59:20	0.060	846.800	0.000	564.200	16380.000	16200.000	109.434%	0.092
3	23:59:39	0.086	876.700	0.000	559.000	16250.000	16100.000	110.702%	0.090
x		0.032	865.500	0.000	559.000	16200.000	16090.000	110.372%	0.084
σ		0.071	16.330	0.000	5.143	197.500	112.000	0.824%	0.013
%RSD		220.000	1.887	0.000	0.920	1.219	0.696	0.746	15.010
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:59:00	0.021	0.034	13.780	34.340	74.000	0.013	0.027	0.445
2	23:59:20	0.027	0.031	14.220	34.480	72.380	0.011	-0.002	0.379
3	23:59:39	0.017	0.028	14.020	33.320	64.800	0.016	-0.065	0.424
x		0.022	0.031	14.010	34.050	70.400	0.013	-0.013	0.416
σ		0.005	0.003	0.225	0.636	4.910	0.003	0.047	0.034
%RSD		22.510	8.836	1.603	1.869	6.975	19.290	348.800	8.086
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:59:00	0.145	-0.193	-0.238	-0.078	-0.412	-0.089	0.000	448.800
2	23:59:20	0.129	-0.047	-0.020	0.014	0.355	0.091	0.000	449.100
3	23:59:39	0.113	-0.080	0.093	0.029	0.184	0.003	0.000	448.600
x		0.129	-0.107	-0.055	-0.012	0.042	0.002	0.000	448.800
σ		0.016	0.076	0.168	0.058	0.403	0.090	0.000	0.240
%RSD		12.340	71.650	305.400	492.400	952.100	5418.000	0.000	0.054
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:59:00	97.039%	0.937	0.925	98.592%	-0.025	-0.018	-0.030	-0.009
2	23:59:20	96.906%	1.016	0.904	99.209%	-0.019	-0.018	0.016	0.014
3	23:59:39	97.246%	0.938	0.927	98.249%	-0.021	-0.024	0.044	0.026
x		97.063%	0.964	0.919	98.683%	-0.022	-0.020	0.010	0.010
σ		0.171%	0.045	0.013	0.487%	0.003	0.004	0.037	0.018
%RSD		0.176	4.700	1.399	0.493	13.640	18.360	370.400	168.200
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:59:00	92.400%	0.079	-0.065	-0.072	4.575	4.833	92.375%	91.583%
2	23:59:20	94.052%	0.015	-0.070	-0.072	4.749	4.626	93.233%	92.732%
3	23:59:39	94.428%	0.079	-0.066	-0.081	4.793	4.553	94.034%	92.930%
x		93.627%	0.058	-0.067	-0.075	4.706	4.671	93.214%	92.415%
σ		1.079%	0.037	0.002	0.006	0.116	0.145	0.830%	0.727%
%RSD		1.152	63.710	3.429	7.337	2.455	3.099	0.890	0.787
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:59:00	0.104	0.111	0.011	-0.000	0.003	88.293%		
2	23:59:20	0.110	0.112	0.004	0.012	0.013	87.775%		
3	23:59:39	0.108	0.114	0.008	0.019	0.009	87.834%		
x		0.107	0.112	0.007	0.010	0.008	87.967%		
σ		0.003	0.001	0.003	0.010	0.005	0.283%		
%RSD		2.886	1.323	46.410	96.370	65.390	0.322		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:51	96.715%	0.002	2544.000	2416.000	0.000	427200.000	36800.000	36930.000
2	00:03:10	94.703%	-0.024	2620.000	2480.000	0.000	430700.000	36950.000	37010.000
3	00:03:29	92.675%	-0.023	2511.000	2457.000	0.000	438000.000	37320.000	37250.000
x		94.697%	-0.015	2558.000	2451.000	0.000	432000.000	37020.000	37060.000
σ		2.020%	0.015	55.970	32.540	0.000	5508.000	269.400	162.900
%RSD		2.133	98.620	2.188	1.328	0.000	1.275	0.728	0.439

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:51	0.386	4904.000	0.000	2710.000	75130.000	78720.000	103.442%	0.289
2	00:03:10	0.373	4909.000	0.000	2712.000	74660.000	79270.000	100.614%	0.310
3	00:03:29	0.423	4938.000	0.000	2799.000	77610.000	81520.000	100.684%	0.344
x		0.394	4917.000	0.000	2741.000	75800.000	79840.000	101.580%	0.314
σ		0.026	18.110	0.000	50.630	1583.000	1482.000	1.613%	0.027
%RSD		6.599	0.368	0.000	1.848	2.089	1.856	1.588	8.669

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:51	0.168	0.199	65.710	192.800	357.500	0.081	0.278	2.103
2	00:03:10	0.087	0.125	66.810	195.500	349.200	0.076	0.289	2.258
3	00:03:29	0.113	0.191	69.360	201.600	360.700	0.062	0.298	2.316
x		0.123	0.172	67.290	196.600	355.800	0.073	0.289	2.226
σ		0.041	0.041	1.873	4.554	5.908	0.009	0.010	0.110
%RSD		33.670	23.880	2.783	2.316	1.660	12.910	3.470	4.944

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:51	0.624	0.583	0.374	0.121	0.050	0.398	0.000	2265.000
2	00:03:10	0.627	0.546	0.469	0.162	-0.003	0.469	0.000	2266.000
3	00:03:29	0.609	0.606	0.431	0.153	0.178	0.356	0.000	2267.000
x		0.620	0.578	0.425	0.145	0.075	0.408	0.000	2266.000
σ		0.010	0.030	0.047	0.022	0.093	0.057	0.000	0.758
%RSD		1.559	5.272	11.160	15.030	124.500	13.890	0.000	0.033

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:51	87.874%	3.843	3.780	87.959%	-0.017	-0.016	0.039	0.036
2	00:03:10	89.641%	4.023	3.855	89.294%	-0.025	-0.017	0.085	0.069
3	00:03:29	90.432%	3.693	3.787	89.666%	-0.018	-0.018	-0.024	-0.016
x		89.316%	3.853	3.807	88.973%	-0.020	-0.017	0.033	0.030
σ		1.310%	0.165	0.041	0.898%	0.004	0.001	0.055	0.043
%RSD		1.466	4.286	1.088	1.009	21.490	7.920	165.300	145.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:51	83.120%	0.258	-0.027	-0.036	23.110	22.420	85.187%	83.740%
2	00:03:10	84.985%	0.273	-0.044	-0.041	22.700	22.570	87.302%	86.588%
3	00:03:29	87.502%	0.215	-0.041	-0.050	22.670	22.230	91.208%	89.761%
x		85.202%	0.249	-0.037	-0.042	22.820	22.410	87.899%	86.697%
σ		2.199%	0.030	0.009	0.007	0.244	0.172	3.054%	3.012%
%RSD		2.581	11.960	24.130	16.690	1.068	0.767	3.475	3.474

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:51	0.076	0.078	-0.011	0.000	-0.007	89.146%
2	00:03:10	0.108	0.088	0.002	-0.002	0.002	86.185%
3	00:03:29	0.087	0.092	-0.001	0.013	0.002	85.952%
x		0.091	0.086	-0.003	0.004	-0.001	87.094%
σ		0.016	0.007	0.007	0.008	0.005	1.781%
%RSD		17.960	8.245	228.600	224.700	534.300	2.045

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:06:39	106.168%	-0.004	44.970	45.620	0.000	13910.000	39880.000	40190.000
2	00:06:58	98.769%	0.001	49.110	45.490	0.000	14060.000	39800.000	40250.000
3	00:07:18	94.367%	-0.067	47.070	46.300	0.000	13860.000	39950.000	40760.000
x		99.768%	-0.023	47.050	45.800	0.000	13940.000	39870.000	40400.000
σ		5.964%	0.038	2.070	0.436	0.000	103.100	77.130	312.300
%RSD		5.978	160.600	4.399	0.952	0.000	0.740	0.193	0.773

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:06:39	2.505	9201.000	0.000	2922.000	101600.000	102800.000	97.761%	0.669
2	00:06:58	2.752	9438.000	0.000	2895.000	102600.000	102600.000	96.730%	0.488
3	00:07:18	2.577	9422.000	0.000	2859.000	102200.000	104000.000	96.498%	0.678
x		2.611	9354.000	0.000	2892.000	102200.000	103100.000	96.996%	0.611
σ		0.127	132.400	0.000	31.640	523.600	765.000	0.673%	0.107
%RSD		4.870	1.415	0.000	1.094	0.512	0.742	0.693	17.530

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:06:39	-0.130	2.708	122.300	642.400	820.900	0.475	3.164	0.535
2	00:06:58	0.126	2.965	124.400	652.900	833.100	0.507	3.465	0.582
3	00:07:18	-0.106	2.805	122.800	644.000	821.900	0.518	3.108	0.610
x		-0.037	2.826	123.200	646.400	825.300	0.500	3.246	0.576
σ		0.141	0.130	1.105	5.694	6.793	0.022	0.192	0.037
%RSD		384.200	4.585	0.897	0.881	0.823	4.497	5.916	6.513

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:06:39	0.777	1.036	1.404	0.022	0.142	0.031	0.000	416.400
2	00:06:58	0.739	1.278	1.014	0.132	0.126	0.102	0.000	416.600
3	00:07:18	0.650	1.093	0.959	0.234	0.070	0.306	0.000	416.300
x		0.722	1.136	1.126	0.129	0.113	0.146	0.000	416.500
σ		0.065	0.127	0.243	0.106	0.037	0.143	0.000	0.132
%RSD		9.003	11.160	21.560	82.020	33.230	97.500	0.000	0.032

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:06:39	92.183%	0.816	0.816	92.205%	0.024	0.041	0.000	0.009
2	00:06:58	93.897%	0.870	0.794	92.787%	0.026	0.021	0.032	0.016
3	00:07:18	93.279%	0.808	0.819	92.805%	0.022	0.025	-0.031	-0.023
x		93.120%	0.831	0.810	92.599%	0.024	0.029	0.000	0.001
σ		0.868%	0.034	0.013	0.342%	0.002	0.011	0.032	0.021
%RSD		0.932	4.033	1.661	0.369	7.727	36.570	31150.000	4090.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:06:39	91.633%	0.067	-0.057	-0.067	11.430	11.010	92.844%	92.790%
2	00:06:58	92.492%	0.045	-0.069	-0.067	10.960	11.230	96.158%	95.917%
3	00:07:18	93.540%	0.042	-0.065	-0.071	11.270	10.950	96.543%	95.159%
x		92.555%	0.052	-0.064	-0.068	11.220	11.060	95.181%	94.622%
σ		0.955%	0.013	0.006	0.002	0.241	0.145	2.034%	1.631%
%RSD		1.032	25.770	8.902	3.407	2.148	1.313	2.136	1.724

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:06:39	0.069	0.060	0.066	0.089	0.077	95.120%
2	00:06:58	0.054	0.068	0.072	0.092	0.076	94.175%
3	00:07:18	0.061	0.069	0.071	0.090	0.083	93.071%
x		0.061	0.066	0.070	0.090	0.079	94.122%
σ		0.008	0.005	0.003	0.001	0.004	1.025%
%RSD		12.890	7.054	4.681	1.627	4.998	1.090

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:27	103.865%	-0.042	43.290	42.560	0.000	13910.000	39630.000	39850.000
2	00:10:46	98.802%	-0.040	45.790	42.900	0.000	13820.000	39200.000	39230.000
3	00:11:05	100.414%	-0.027	45.980	40.260	0.000	13660.000	38910.000	39210.000
x		101.027%	-0.036	45.020	41.910	0.000	13800.000	39250.000	39430.000
σ		2.587%	0.008	1.502	1.437	0.000	128.600	361.500	364.400
%RSD		2.561	21.960	3.336	3.428	0.000	0.932	0.921	0.924
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:27	0.290	9276.000	0.000	2784.000	97510.000	98520.000	99.996%	0.551
2	00:10:46	0.347	9381.000	0.000	2788.000	98670.000	99470.000	98.256%	0.491
3	00:11:05	0.439	9296.000	0.000	2873.000	100100.000	100200.000	98.237%	0.596
x		0.359	9318.000	0.000	2815.000	98770.000	99400.000	98.830%	0.546
σ		0.075	56.070	0.000	50.290	1303.000	844.100	1.010%	0.052
%RSD		20.920	0.602	0.000	1.787	1.320	0.849	1.022	9.579
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:27	0.116	0.884	114.200	432.800	617.300	0.156	0.754	0.231
2	00:10:46	0.198	0.813	115.600	428.200	599.200	0.160	0.890	0.227
3	00:11:05	0.124	0.942	117.800	436.200	620.100	0.158	0.744	0.212
x		0.146	0.880	115.900	432.400	612.200	0.158	0.796	0.223
σ		0.045	0.065	1.839	3.986	11.330	0.002	0.082	0.010
%RSD		30.780	7.390	1.588	0.922	1.852	1.361	10.270	4.300
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:27	0.333	0.492	0.454	-0.065	0.138	0.121	0.000	400.200
2	00:10:46	0.420	0.546	0.415	-0.143	0.021	-0.080	0.000	400.500
3	00:11:05	0.428	0.708	0.725	0.134	-0.231	0.092	0.000	400.000
x		0.394	0.582	0.532	-0.025	-0.024	0.044	0.000	400.200
σ		0.052	0.113	0.169	0.143	0.189	0.109	0.000	0.263
%RSD		13.340	19.350	31.790	579.200	786.300	246.000	0.000	0.066
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:27	92.661%	0.289	0.322	92.722%	-0.020	-0.014	-0.002	0.014
2	00:10:46	93.394%	0.356	0.358	93.579%	-0.021	-0.018	-0.035	-0.023
3	00:11:05	93.568%	0.332	0.319	93.271%	-0.024	-0.022	-0.047	-0.038
x		93.208%	0.326	0.333	93.191%	-0.022	-0.018	-0.028	-0.016
σ		0.481%	0.034	0.022	0.434%	0.002	0.004	0.024	0.027
%RSD		0.516	10.320	6.526	0.466	8.685	20.440	84.120	169.100
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:10:27	90.948%	-0.055	-0.050	-0.061	10.910	10.780	93.902%	94.047%
2	00:10:46	92.668%	-0.073	-0.048	-0.055	10.750	10.870	95.773%	96.291%
3	00:11:05	93.157%	-0.068	-0.049	-0.053	10.730	10.750	96.629%	97.092%
x		92.258%	-0.065	-0.049	-0.056	10.800	10.800	95.435%	95.810%
σ		1.160%	0.009	0.001	0.004	0.097	0.063	1.395%	1.579%
%RSD		1.258	14.130	2.121	7.119	0.900	0.581	1.461	1.648
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:10:27	0.038	0.047	0.049	0.048	0.048	100.970%		
2	00:10:46	0.055	0.040	0.054	0.048	0.053	98.635%		
3	00:11:05	0.046	0.044	0.054	0.048	0.046	96.508%		
x		0.046	0.044	0.052	0.048	0.049	98.704%		
σ		0.008	0.004	0.003	0.000	0.003	2.232%		
%RSD		18.140	8.010	5.775	0.094	6.849	2.261		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:15	95.518%	0.003	236.500	234.400	0.000	132700.000	37900.000	37870.000
2	00:14:34	90.104%	-0.051	241.000	239.200	0.000	136100.000	39150.000	39560.000
3	00:14:53	92.477%	-0.037	233.200	236.900	0.000	132100.000	37150.000	38520.000
x		92.700%	-0.028	236.900	236.900	0.000	133600.000	38070.000	38650.000
σ		2.714%	0.028	3.944	2.401	0.000	2156.000	1011.000	853.900
%RSD		2.928	100.000	1.665	1.013	0.000	1.613	2.657	2.209

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:15	3.036	8075.000	0.000	4203.000	159200.000	155800.000	97.455%	0.720
2	00:14:34	3.210	8238.000	0.000	4365.000	155500.000	158900.000	96.818%	0.488
3	00:14:53	3.330	8373.000	0.000	4363.000	155200.000	158700.000	97.047%	0.675
x		3.192	8229.000	0.000	4310.000	156600.000	157800.000	97.107%	0.627
σ		0.148	149.500	0.000	93.170	2260.000	1750.000	0.323%	0.123
%RSD		4.623	1.816	0.000	2.161	1.443	1.109	0.332	19.530

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:15	0.033	0.139	5849.000	34560.000	34370.000	17.470	9.707	0.766
2	00:14:34	0.190	0.200	5874.000	34740.000	34750.000	16.870	9.252	0.756
3	00:14:53	0.054	0.112	5835.000	34540.000	34900.000	17.320	9.685	0.803
x		0.092	0.150	5853.000	34610.000	34680.000	17.220	9.548	0.775
σ		0.085	0.045	19.680	106.000	274.800	0.314	0.256	0.025
%RSD		92.250	30.140	0.336	0.306	0.793	1.822	2.684	3.255

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:15	0.625	3.869	3.885	8.013	-0.401	0.306	0.000	1405.000
2	00:14:34	0.622	4.207	3.674	7.828	-0.049	0.135	0.000	1405.000
3	00:14:53	0.694	4.352	4.133	8.429	0.231	0.382	0.000	1416.000
x		0.647	4.143	3.897	8.090	-0.073	0.274	0.000	1408.000
σ		0.041	0.248	0.230	0.308	0.317	0.127	0.000	6.253
%RSD		6.285	5.977	5.897	3.807	433.500	46.170	0.000	0.444

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:15	88.001%	0.832	0.807	88.347%	-0.013	-0.011	-0.044	-0.028
2	00:14:34	89.976%	0.807	0.804	90.222%	-0.014	-0.004	0.054	0.040
3	00:14:53	90.778%	0.825	0.821	90.643%	-0.016	-0.012	-0.005	0.001
x		89.585%	0.822	0.811	89.737%	-0.014	-0.009	0.002	0.004
σ		1.429%	0.013	0.009	1.223%	0.002	0.004	0.049	0.034
%RSD		1.595	1.595	1.087	1.362	11.870	47.360	3049.000	768.800

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:15	86.306%	0.008	-0.051	-0.047	54.290	54.730	90.710%	89.877%
2	00:14:34	87.769%	0.047	-0.055	-0.036	55.870	53.430	92.432%	92.467%
3	00:14:53	89.064%	0.012	-0.060	-0.042	54.210	55.060	93.819%	93.860%
x		87.713%	0.023	-0.055	-0.042	54.790	54.410	92.320%	92.068%
σ		1.380%	0.022	0.005	0.006	0.938	0.864	1.558%	2.021%
%RSD		1.573	95.170	8.423	13.540	1.711	1.589	1.687	2.195

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:15	0.068	0.056	0.072	0.067	0.058	96.477%
2	00:14:34	0.067	0.064	0.076	0.066	0.073	92.188%
3	00:14:53	0.070	0.071	0.079	0.059	0.064	91.721%
x		0.068	0.063	0.076	0.064	0.065	93.462%
σ		0.001	0.008	0.003	0.004	0.008	2.622%
%RSD		1.800	11.900	4.570	6.342	12.130	2.805

180-43656-A-7-A 5/8/2015 12:17:43 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:03	98.330%	-0.040	229.600	223.300	0.000	127700.000	36450.000	37200.000
2	00:18:22	94.336%	-0.052	220.000	200.400	0.000	120700.000	34120.000	34240.000
3	00:18:41	85.775%	-0.065	223.400	212.100	0.000	128100.000	36540.000	36980.000
x		92.814%	-0.053	224.300	212.000	0.000	125500.000	35700.000	36140.000
σ		6.414%	0.013	4.846	11.430	0.000	4137.000	1375.000	1651.000
%RSD		6.911	24.190	2.160	5.393	0.000	3.297	3.851	4.568

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:03	1.967	8087.000	0.000	4188.000	149300.000	155800.000	99.097%	0.511
2	00:18:22	1.274	7417.000	0.000	3965.000	142600.000	147700.000	97.199%	0.556
3	00:18:41	1.608	7863.000	0.000	4234.000	154100.000	158500.000	94.790%	0.512
x		1.616	7789.000	0.000	4129.000	148600.000	154000.000	97.029%	0.526
σ		0.347	340.900	0.000	143.900	5769.000	5591.000	2.158%	0.026
%RSD		21.450	4.377	0.000	3.487	3.882	3.630	2.224	4.911

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:03	0.015	0.136	5458.000	32640.000	33030.000	16.090	9.218	0.941
2	00:18:22	-0.003	0.131	5313.000	31890.000	31950.000	15.450	9.238	0.844
3	00:18:41	0.082	0.202	5669.000	33820.000	34080.000	16.420	9.474	1.019
x		0.031	0.156	5480.000	32790.000	33020.000	15.990	9.310	0.935
σ		0.045	0.040	179.100	975.400	1068.000	0.491	0.142	0.088
%RSD		142.100	25.490	3.269	2.975	3.234	3.069	1.528	9.393

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:03	0.778	3.863	3.624	6.576	-0.011	0.301	0.000	1410.000
2	00:18:22	0.708	3.429	3.449	5.884	-0.042	0.229	0.000	1337.000
3	00:18:41	0.751	3.582	3.522	6.017	0.353	0.285	0.000	1422.000
x		0.746	3.624	3.532	6.159	0.100	0.272	0.000	1390.000
σ		0.035	0.220	0.088	0.367	0.220	0.038	0.000	45.980
%RSD		4.736	6.070	2.486	5.963	219.600	13.990	0.000	3.308

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:03	88.953%	0.946	0.796	89.684%	-0.015	-0.012	0.071	0.056
2	00:18:22	91.394%	0.821	0.774	92.067%	-0.014	-0.016	-0.013	0.004
3	00:18:41	89.979%	0.858	0.818	90.299%	-0.020	-0.016	0.039	0.010
x		90.109%	0.875	0.796	90.683%	-0.016	-0.015	0.032	0.023
σ		1.226%	0.064	0.022	1.237%	0.003	0.002	0.042	0.028
%RSD		1.360	7.326	2.720	1.364	19.450	15.220	130.100	123.400

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:03	85.579%	0.091	-0.046	-0.038	54.310	53.160	87.900%	87.576%
2	00:18:22	91.282%	0.105	-0.038	-0.038	50.680	49.500	94.158%	93.431%
3	00:18:41	89.475%	0.063	-0.035	-0.046	53.060	53.360	92.863%	91.713%
x		88.779%	0.086	-0.040	-0.041	52.680	52.010	91.640%	90.907%
σ		2.915%	0.021	0.006	0.005	1.846	2.171	3.303%	3.009%
%RSD		3.283	24.900	13.950	11.180	3.504	4.175	3.604	3.310

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:03	0.070	0.077	0.032	0.030	0.035	83.572%
2	00:18:22	0.072	0.067	0.040	0.042	0.040	87.858%
3	00:18:41	0.076	0.071	0.031	0.051	0.043	88.306%
x		0.073	0.072	0.034	0.041	0.039	86.579%
σ		0.004	0.005	0.005	0.011	0.004	2.613%
%RSD		4.889	6.575	14.690	26.360	9.940	3.018

CCV 1558997 5/8/2015 12:21:39 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:21:39	103.476%	97.950	98.180	95.400	0.000	47270.000	47430.000	47060.000
2	00:21:58	101.788%	102.000	102.800	99.690	0.000	48800.000	47680.000	48370.000
3	00:22:17	100.286%	100.400	93.680	94.700	0.000	47640.000	48220.000	47530.000
x		101.850%	100.117%	98.225%	96.596%	0.000	95.807%	95.552%	95.307%
σ		1.595%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.566	2.053	4.650	2.797	0.000	1.666	0.852	1.388

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:21:39	461.900	4691.000	0.000	47030.000	45710.000	46020.000	110.291%	88.670
2	00:21:58	477.900	4729.000	0.000	48220.000	47480.000	49060.000	106.595%	93.480
3	00:22:17	458.600	4632.000	0.000	49700.000	48820.000	49420.000	103.596%	94.070
x		93.230%	93.677%	0.000	96.636%	94.673%	96.331%	106.827%	92.072%
σ		n/a	n/a	0.000	n/a	n/a	n/a	3.353%	n/a
%RSD		2.217	1.044	0.000	2.767	3.292	3.876	3.139	3.219

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:21:39	92.480	92.430	467.000	23790.000	23260.000	93.850	98.160	97.100
2	00:21:58	95.430	96.540	478.100	24450.000	23950.000	95.300	96.910	97.050
3	00:22:17	96.890	98.480	493.900	25310.000	24980.000	98.460	101.900	101.400
x		94.931%	95.818%	95.932%	98.072%	96.258%	95.872%	98.977%	98.519%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.364	3.222	2.823	3.112	3.607	2.459	2.602	2.537

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:21:39	97.270	94.840	95.470	95.760	98.430	96.690	0.000	94.240
2	00:21:58	96.060	95.550	95.520	98.480	101.200	99.750	0.000	94.840
3	00:22:17	101.000	99.160	98.600	99.890	101.700	102.400	0.000	95.380
x		98.120%	96.515%	96.531%	98.045%	100.428%	99.610%	0.000	94.818%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.643	2.398	1.854	2.140	1.744	2.864	0.000	0.603

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:21:39	97.256%	88.550	87.500	97.390%	93.630	93.420	94.250	93.580
2	00:21:58	99.174%	91.190	90.500	99.002%	94.230	95.160	95.440	96.040
3	00:22:17	100.047%	92.050	93.500	99.927%	94.750	95.240	94.880	96.110
x		98.826%	90.596%	90.498%	98.773%	94.205%	94.607%	94.854%	95.240%
σ		1.428%	n/a	n/a	1.284%	n/a	n/a	n/a	n/a
%RSD		1.445	2.015	3.314	1.300	0.596	1.085	0.628	1.515

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:21:39	95.442%	91.160	93.040	94.030	93.250	93.360	92.999%	92.944%
2	00:21:58	96.108%	93.320	95.990	96.010	95.810	95.550	97.095%	96.578%
3	00:22:17	98.093%	94.330	95.690	94.990	93.440	93.570	99.422%	98.822%
x		96.548%	92.939%	94.908%	95.009%	94.167%	94.160%	96.505%	96.115%
σ		1.379%	n/a	n/a	n/a	n/a	n/a	3.252%	2.966%
%RSD		1.429	1.745	1.715	1.042	1.511	1.282	3.369	3.086

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:21:39	96.350	99.940	96.260	96.330	96.290	105.850%
2	00:21:58	100.000	103.700	99.620	101.000	99.800	106.667%
3	00:22:17	100.100	104.800	101.500	102.000	101.000	108.996%
x		98.838%	102.811%	99.112%	99.753%	99.021%	107.171%
σ		n/a	n/a	n/a	n/a	n/a	1.632%
%RSD		2.177	2.472	2.662	3.011	2.459	1.523

CCB9 5/8/2015 12:28:20 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:39	104.541%	-0.068	2.004	1.978	0.000	16.590	3.973	4.216
2	00:28:58	101.563%	0.038	2.342	2.125	0.000	15.550	3.484	4.151
3	00:29:17	95.891%	-0.011	2.333	2.159	0.000	16.390	3.335	3.735
x		100.665%	-0.014	2.226	2.087	0.000	16.180	3.597	4.034
σ		4.394%	0.053	0.193	0.096	0.000	0.554	0.334	0.261
%RSD		4.365	377.700	8.664	4.597	0.000	3.425	9.283	6.475

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:39	0.356	-128.800	0.000	13.950	10.070	6.542	111.572%	0.007
2	00:28:58	0.414	-128.400	0.000	11.920	7.367	6.562	109.501%	0.008
3	00:29:17	0.219	-128.100	0.000	12.460	8.392	5.992	109.968%	-0.023
x		0.330	-128.500	0.000	12.780	8.610	6.365	110.347%	-0.002
σ		0.100	0.380	0.000	1.051	1.364	0.324	1.086%	0.018
%RSD		30.350	0.296	0.000	8.227	15.850	5.087	0.984	720.800

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:39	0.037	0.028	0.107	9.031	8.134	0.013	0.048	0.004
2	00:28:58	0.012	0.020	0.096	8.513	7.778	0.003	0.004	-0.009
3	00:29:17	0.024	-0.010	0.103	6.793	6.924	0.011	0.019	-0.021
x		0.024	0.013	0.102	8.112	7.612	0.009	0.024	-0.009
σ		0.013	0.020	0.005	1.171	0.622	0.005	0.023	0.013
%RSD		51.100	153.000	5.376	14.440	8.166	59.860	95.850	144.600

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:39	-0.026	0.108	0.330	0.007	0.760	0.138	0.000	0.043
2	00:28:58	-0.017	0.033	0.214	0.012	0.821	0.060	0.000	0.036
3	00:29:17	0.015	0.178	0.067	0.023	0.475	0.043	0.000	0.037
x		-0.009	0.106	0.204	0.014	0.686	0.080	0.000	0.039
σ		0.022	0.073	0.132	0.008	0.185	0.051	0.000	0.003
%RSD		231.300	68.360	64.580	57.300	26.970	63.410	0.000	8.667

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:39	103.704%	0.239	0.213	107.114%	-0.004	-0.003	-0.009	0.002
2	00:28:58	104.079%	0.248	0.244	107.346%	-0.002	0.001	0.028	0.022
3	00:29:17	104.808%	0.189	0.187	108.022%	-0.000	-0.006	-0.014	0.001
x		104.197%	0.226	0.215	107.494%	-0.002	-0.003	0.002	0.008
σ		0.561%	0.032	0.029	0.472%	0.002	0.004	0.023	0.012
%RSD		0.539	14.090	13.290	0.439	87.220	123.500	1357.000	143.300

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:39	100.229%	-0.168	-0.044	-0.067	-0.008	0.007	93.842%	92.028%
2	00:28:58	102.206%	-0.153	-0.060	-0.069	0.020	0.013	97.061%	95.439%
3	00:29:17	102.473%	-0.180	-0.055	-0.062	0.005	0.003	98.044%	95.981%
x		101.636%	-0.167	-0.053	-0.066	0.005	0.007	96.316%	94.482%
σ		1.226%	0.013	0.008	0.004	0.014	0.005	2.198%	2.143%
%RSD		1.206	8.007	15.080	5.532	267.100	72.210	2.282	2.268

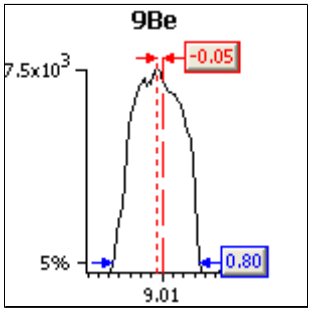
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:39	0.044	0.035	0.011	0.010	0.013	88.408%
2	00:28:58	0.053	0.044	0.006	0.014	0.011	88.420%
3	00:29:17	0.045	0.038	0.002	0.015	0.009	90.168%
x		0.047	0.039	0.006	0.013	0.011	88.998%
σ		0.005	0.004	0.005	0.003	0.002	1.013%
%RSD		10.480	11.480	71.300	23.230	18.370	1.138

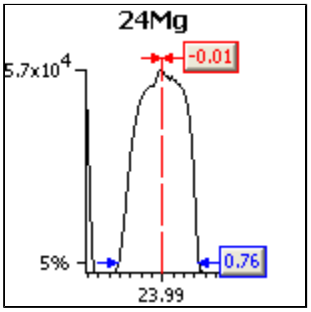
Performance Report

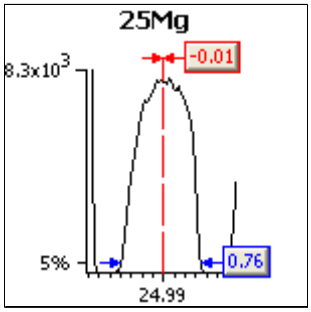
Sample details
Sample name : ITUNE
Acquired at : 5/7/2015 3:52:39 PM
Report name : EPA ILMO5.2/6020A 2.1 [3/15/2013 11:49:53 AM]

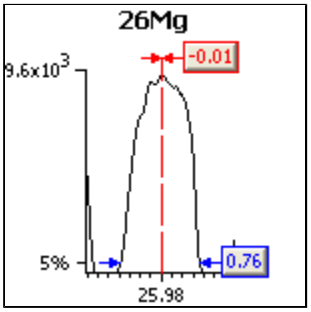
Mass Calibration verification

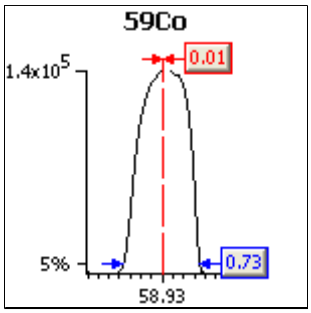
Acquisition parameters
Sweeps : 25
Dwell : 2.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 5% of the peak maximum

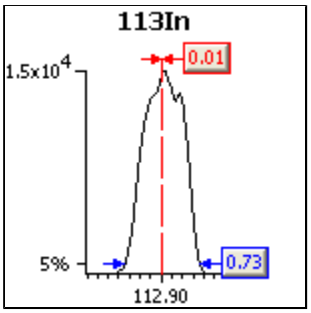


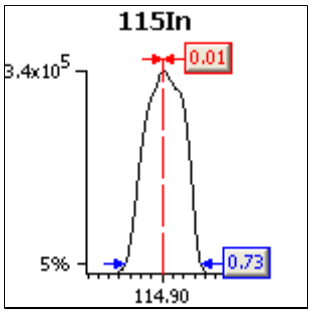


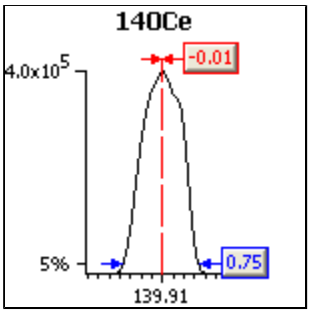


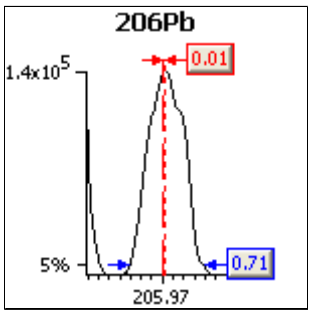


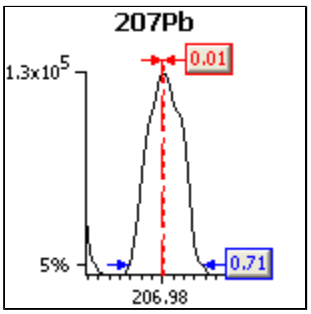


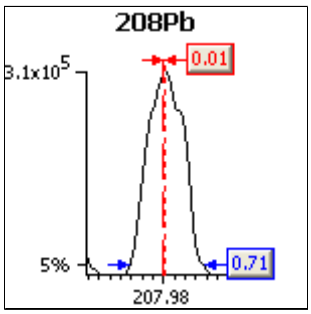












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.90	0.45	0.10	0.80	-0.05
24Mg	0.90	0.45	0.10	0.76	-0.01
25Mg	0.90	0.45	0.10	0.76	-0.01
26Mg	0.90	0.45	0.10	0.76	-0.01
59Co	0.90	0.45	0.10	0.73	0.01
113In	0.90	0.45	0.10	0.73	0.01
115In	0.90	0.45	0.10	0.73	0.01
140Ce	0.90	0.45	0.10	0.75	-0.01
206Pb	0.90	0.45	0.10	0.71	0.01
207Pb	0.90	0.45	0.10	0.71	0.01
208Pb	0.90	0.45	0.10	0.71	0.01

Sample details
Sample name : ITUNE
Acquired at : 5/7/2015 3:52:39 PM
Report name : EPA ILMO5.2/6020A 2.1 [3/15/2013 11:49:53 AM]

Tune conditions

Major	
Extraction	-118
Lens 1	2.0
Focus	27.5
D1	-38.4
Pole Bias	3.0
Hexapole Bias	-3.0
Nebuliser	0.92
Sampling Depth	200

Minor	
Lens 2	-33.7
Lens 3	-200.0
Forward power	1404
Horizontal	74
Vertical	422
D2	-160
DA	-80.0
Cool	13.0
Auxiliary	0.90

Global	
Standard resolution	n/a
High resolution	n/a
Analogue Detector	n/a
PC Detector	n/a

Add. Gases	
He/H2	0.00
He/NH3	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 150

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	137Ba++
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-
	Countrate	-	>500	>500	>500	>500	-	>5000	-
1	3:53:26 PM	0	6716	55420	7610	9067	348205	144843	4
2	3:54:52 PM	0	6712	55900	7700	9127	349980	145687	3
3	3:56:17 PM	0	6859	56293	7593	9356	350728	147262	1
4	3:57:42 PM	0	6837	56803	7736	9362	353348	147452	4
5	3:59:07 PM	0	6807	56070	7778	9344	352686	146290	3
x		0	6786	56097	7684	9251	350989	146307	3
σ		0.03	68.27	508.79	80.22	142.64	2078.61	1089.79	1.12
%RSD		37.268	1.006	0.907	1.044	1.542	0.592	0.745	36.377

Run	Time	138Ba++	101Bkg	113In	115In	138Ba	140Ce	156Ce O	206Pb
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	-	5.0%	5.0%	-	5.0%	-	5.0%
	Countrate	-	-	>200	>5000	-	>10000	-	>500
1	3:53:26 PM	22	0	15512	357544	2322	415907	4330	147362
2	3:54:52 PM	20	0	15565	361974	2371	418726	4382	149252
3	3:56:17 PM	24	0	15801	366521	2373	421876	4360	151341
4	3:57:42 PM	18	0	15452	363929	2388	418431	4337	148582
5	3:59:07 PM	22	0	15203	356871	2354	410336	4228	140837
x		21	0	15506	361368	2361	417055	4327	147475
σ		2.11	0.09	215.27	4133.14	25.45	4312.60	59.38	3981.26
%RSD		9.933	46.566	1.388	1.144	1.078	1.034	1.372	2.700

Run	Time	207Pb	208Pb	220Bkg
Dwell (mSecs)		0.0	0.0	0.0
Limits	%RSD	5.0%	5.0%	-
	Countrate	>500	>500	<2500
1	3:53:26 PM	131221	318987	0
2	3:54:52 PM	133671	324621	0
3	3:56:17 PM	135784	331040	0
4	3:57:42 PM	132847	323265	0
5	3:59:07 PM	125694	307023	0
x		131843	320987	0
σ		3810.24	8922.56	0.10
%RSD		2.890	2.780	108.327

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0500
1	3:53:26 PM	0
2	3:54:52 PM	0

3	3:56:17 PM	0
4	3:57:42 PM	0
5	3:59:07 PM	0
x		0.0104
σ		0.00
%RSD		0.6161

Result : The performance report passed.

Dilution Corrected Concentrations

STD1 1565412 5/8/2015 12:04:47 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:03:55	98.618%	0.001	-0.033	-0.033	0.000	-0.242	-0.013	-0.095
2	12:04:02	102.835%	-0.017	0.016	-0.016	0.000	-0.138	-0.095	0.090
3	12:04:10	98.546%	0.016	0.017	0.049	0.000	0.380	0.108	0.005
x		100.000%	-0.000	-0.000	0.000	0.000	-0.000	0.000	-0.000
σ		2.456%	0.016	0.028	0.044	0.000	0.333	0.102	0.092
%RSD		2.456	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:03:55	0.098	-1.497	0.000	-0.436	-2.584	0.181	101.121%	-0.008
2	12:04:02	-0.085	-1.284	0.000	-0.346	6.834	-0.255	99.377%	0.033
3	12:04:10	-0.013	2.780	0.000	0.783	-4.250	0.074	99.502%	-0.025
x		0.000	-0.000	0.000	-0.000	0.000	0.000	100.000%	0.000
σ		0.092	2.410	0.000	0.679	5.976	0.227	0.973%	0.030
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.973	0.000
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:03:55	-0.015	0.002	0.018	0.395	0.781	-0.004	0.003	-0.034
2	12:04:02	0.009	0.003	-0.008	-0.098	0.445	0.005	0.003	0.005
3	12:04:10	0.006	-0.005	-0.009	-0.297	-1.226	-0.001	-0.006	0.029
x		-0.000	-0.000	-0.000	0.000	0.000	-0.000	0.000	-0.000
σ		0.013	0.005	0.015	0.356	1.075	0.004	0.005	0.032
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:03:55	-0.042	0.083	0.016	0.025	0.001	-0.091	0.000	-0.002
2	12:04:02	0.010	-0.056	0.014	-0.007	-0.000	0.229	0.000	0.001
3	12:04:10	0.032	-0.026	-0.030	-0.018	-0.000	-0.138	0.000	0.001
x		0.000	-0.000	-0.000	0.000	-0.000	0.000	0.000	-0.000
σ		0.038	0.073	0.026	0.022	0.000	0.200	0.000	0.002
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:03:55	98.298%	0.008	0.019	99.952%	-0.022	-0.034	0.008	0.002
2	12:04:02	100.644%	-0.104	-0.026	100.315%	-0.047	0.005	-0.004	-0.003
3	12:04:10	101.058%	0.096	0.007	99.733%	0.069	0.029	-0.004	0.001
x		100.000%	0.000	0.000	100.000%	-0.000	0.000	0.000	0.000
σ		1.488%	0.100	0.024	0.294%	0.061	0.032	0.007	0.003
%RSD		1.488	0.000	0.000	0.294	0.000	0.000	0.000	0.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:03:55	98.563%	0.132	-0.009	0.013	0.011	-0.019	98.739%	98.905%
2	12:04:02	100.200%	0.095	0.016	0.048	0.010	0.000	101.057%	100.554%
3	12:04:10	101.237%	-0.227	-0.007	-0.061	-0.020	0.019	100.204%	100.541%
x		100.000%	-0.000	0.000	0.000	0.000	0.000	100.000%	100.000%
σ		1.348%	0.198	0.014	0.056	0.018	0.019	1.172%	0.948%
%RSD		1.348	0.000	0.000	0.000	0.000	0.000	1.172	0.948
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:03:55	0.007	0.005	-0.000	0.000	0.000	101.656%		
2	12:04:02	-0.001	-0.003	0.005	0.001	0.001	100.372%		
3	12:04:10	-0.007	-0.002	-0.005	-0.001	-0.001	97.972%		
x		0.000	0.000	-0.000	-0.000	-0.000	100.000%		
σ		0.007	0.004	0.005	0.001	0.001	1.870%		
%RSD		0.000	0.000	0.000	0.000	0.000	1.870		

STD2 1558995 5/8/2015 12:09:31 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:08:37	93.783%	198.300	0.409	0.066	0.000	97370.000	99170.000	99020.000
2	12:08:45	93.830%	198.300	0.211	0.152	0.000	101800.000	99630.000	100300.000
3	12:08:52	93.633%	203.400	0.317	0.148	0.000	100900.000	101200.000	100700.000
x		93.749%	200.000	0.312	0.122	0.000	100000.000	100000.000	100000.000
σ		0.103%	2.943	0.099	0.049	0.000	2329.000	1062.000	883.700
%RSD		0.110	1.471	31.660	39.750	0.000	2.329	1.062	0.884
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:08:37	991.200	7.846	0.000	98700.000	95550.000	97250.000	95.982%	0.180
2	12:08:45	999.700	14.200	0.000	99800.000	100700.000	99940.000	94.529%	0.124
3	12:08:52	1009.000	17.210	0.000	101500.000	103800.000	102800.000	93.548%	0.291
x		1000.000	13.090	0.000	100000.000	100000.000	100000.000	94.686%	0.198
σ		8.958	4.782	0.000	1410.000	4152.000	2783.000	1.225%	0.085
%RSD		0.896	36.540	0.000	1.410	4.152	2.783	1.294	43.020
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:08:37	195.500	197.100	976.100	49650.000	49830.000	197.600	199.900	198.100
2	12:08:45	200.500	201.200	1005.000	49720.000	49850.000	199.100	200.400	199.600
3	12:08:52	204.000	201.700	1019.000	50630.000	50330.000	203.200	199.700	202.200
x		200.000	200.000	1000.000	50000.000	50000.000	200.000	200.000	200.000
σ		4.268	2.495	21.880	545.500	283.200	2.887	0.363	2.074
%RSD		2.134	1.247	2.188	1.091	0.566	1.443	0.182	1.037
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:08:37	201.000	197.200	196.600	200.000	202.200	196.600	0.000	199.800
2	12:08:45	198.300	200.400	200.300	199.300	200.700	201.900	0.000	199.400
3	12:08:52	200.800	202.400	203.100	200.800	197.100	201.600	0.000	200.800
x		200.000	200.000	200.000	200.000	200.000	200.000	0.000	200.000
σ		1.515	2.591	3.264	0.758	2.652	2.984	0.000	0.709
%RSD		0.758	1.296	1.632	0.379	1.326	1.492	0.000	0.355
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:08:37	90.227%	0.045	0.114	76.651%	200.200	200.200	201.500	201.700
2	12:08:45	92.603%	0.063	0.246	76.976%	202.300	200.100	199.300	199.000
3	12:08:52	93.247%	0.177	0.081	78.109%	197.500	199.700	199.200	199.300
x		92.026%	0.095	0.147	77.245%	200.000	200.000	200.000	200.000
σ		1.591%	0.072	0.087	0.765%	2.392	0.261	1.274	1.508
%RSD		1.729	75.630	59.200	0.990	1.196	0.130	0.637	0.754
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:08:37	80.916%	0.144	0.214	0.024	198.900	200.000	80.571%	78.989%
2	12:08:45	82.089%	0.070	0.156	0.211	198.700	196.600	81.157%	81.124%
3	12:08:52	82.323%	-0.008	0.247	0.086	202.400	203.400	81.091%	79.433%
x		81.776%	0.069	0.206	0.107	200.000	200.000	80.940%	79.849%
σ		0.754%	0.076	0.046	0.095	2.093	3.426	0.321%	1.126%
%RSD		0.922	111.100	22.310	88.780	1.046	1.713	0.396	1.411
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:08:37	199.300	199.500	198.800	200.600	199.200	56.096%		
2	12:08:45	202.400	201.100	201.700	201.000	200.400	55.457%		
3	12:08:52	198.200	199.400	199.600	198.400	200.400	55.409%		
x		200.000	200.000	200.000	200.000	200.000	55.654%		
σ		2.159	0.956	1.520	1.388	0.698	0.383%		
%RSD		1.079	0.478	0.760	0.694	0.349	0.689		

STD3 1558996 5/8/2015 12:14:36 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:13:43	103.894%	0.092	198.600	197.300	0.000	32.550	17.190	16.960
2	12:13:51	102.189%	0.123	207.100	202.700	0.000	31.060	18.160	18.920
3	12:13:58	102.796%	0.098	194.300	200.000	0.000	31.600	19.440	17.710
x		102.959%	0.104	200.000	200.000	0.000	31.740	18.260	17.860
σ		0.864%	0.016	6.546	2.701	0.000	0.751	1.130	0.986
%RSD		0.839	15.640	3.273	1.350	0.000	2.367	6.188	5.523

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:13:43	8.810	9721.000	0.000	43.360	30.290	174.200	104.782%	198.100
2	12:13:51	9.102	10040.000	0.000	41.260	14.960	170.000	103.209%	198.200
3	12:13:58	9.321	10230.000	0.000	46.170	20.120	172.200	98.280%	203.700
x		9.078	10000.000	0.000	43.600	21.790	172.100	102.090%	200.000
σ		0.256	259.600	0.000	2.463	7.798	2.105	3.392%	3.186
%RSD		2.823	2.596	0.000	5.649	35.780	1.223	3.323	1.593

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:13:43	0.097	0.087	0.320	45.800	35.700	0.034	0.010	0.214
2	12:13:51	0.110	0.074	0.277	36.810	31.040	0.028	0.068	0.171
3	12:13:58	0.061	0.062	0.296	32.160	32.240	0.032	0.087	0.209
x		0.089	0.075	0.297	38.260	33.000	0.031	0.055	0.198
σ		0.025	0.013	0.022	6.935	2.418	0.003	0.040	0.023
%RSD		28.380	16.800	7.322	18.130	7.328	10.260	73.780	11.720

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:13:43	0.446	0.871	0.637	1.237	0.639	2.088	0.000	0.101
2	12:13:51	0.156	0.864	0.383	1.295	0.535	1.201	0.000	0.054
3	12:13:58	0.310	0.753	0.673	0.986	0.503	1.360	0.000	0.050
x		0.304	0.829	0.564	1.173	0.559	1.549	0.000	0.068
σ		0.145	0.066	0.158	0.164	0.071	0.473	0.000	0.028
%RSD		47.670	7.959	28.040	14.020	12.740	30.540	0.000	41.460

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:13:43	97.176%	199.300	199.700	91.410%	-0.062	-0.112	0.226	4.580
2	12:13:51	97.273%	201.800	201.100	91.480%	-0.014	-0.125	0.235	4.389
3	12:13:58	99.904%	198.900	199.200	94.487%	-0.029	-0.022	0.177	4.478
x		98.118%	200.000	200.000	92.459%	-0.035	-0.086	0.213	4.483
σ		1.548%	1.553	0.962	1.757%	0.025	0.056	0.031	0.096
%RSD		1.578	0.777	0.481	1.900	70.650	64.480	14.600	2.135

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:13:43	90.888%	200.500	202.400	202.000	0.182	0.299	90.917%	90.151%
2	12:13:51	93.402%	201.200	199.200	201.000	0.144	0.105	92.645%	92.397%
3	12:13:58	95.354%	198.200	198.500	197.000	0.142	0.165	92.883%	92.692%
x		93.215%	200.000	200.000	200.000	0.156	0.190	92.148%	91.747%
σ		2.239%	1.568	2.070	2.676	0.022	0.099	1.073%	1.390%
%RSD		2.402	0.784	1.035	1.338	14.310	52.260	1.164	1.515

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:13:43	0.162	0.178	0.043	0.029	0.042	73.070%
2	12:13:51	0.144	0.136	0.072	0.042	0.064	76.368%
3	12:13:58	0.092	0.123	0.028	0.029	0.045	78.329%
x		0.133	0.146	0.048	0.033	0.050	75.922%
σ		0.037	0.028	0.023	0.007	0.012	2.657%
%RSD		27.550	19.570	47.640	22.020	24.040	3.500

ICV 1527873 5/8/2015 12:19:42 PM QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:18:50	95.877%	81.670	85.230	80.450	0.000	37630.000	36050.000	36800.000
2	12:18:57	97.703%	77.720	79.090	77.370	0.000	37370.000	35890.000	36150.000
3	12:19:05	93.244%	81.850	80.500	83.510	0.000	39270.000	36980.000	37670.000
x		95.608%	100.514%	102.010%	100.556%	0.000	95.229%	90.765%	92.182%
σ		2.242%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.345	2.905	3.940	3.817	0.000	2.710	1.617	2.080

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:18:50	373.300	4709.000	0.000	38520.000	37500.000	36800.000	99.032%	79.010
2	12:18:57	376.700	4838.000	0.000	38450.000	38590.000	38150.000	98.478%	76.830
3	12:19:05	377.700	5014.000	0.000	40310.000	39850.000	38210.000	95.907%	80.170
x		93.979%	121.342%	0.000	97.739%	96.617%	94.293%	97.806%	98.339%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.668%	n/a
%RSD		0.625	3.157	0.000	2.702	3.045	2.113	1.705	2.150

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:18:50	72.220	74.040	390.100	18180.000	17820.000	74.720	75.810	77.480
2	12:18:57	74.490	76.490	394.000	18520.000	18080.000	75.760	76.180	75.930
3	12:19:05	73.880	76.950	403.900	18840.000	18630.000	76.550	78.960	78.090
x		91.911%	94.783%	99.007%	92.564%	90.888%	94.596%	96.231%	96.461%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.592	2.064	1.797	1.766	2.271	1.218	2.239	1.443

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:18:50	75.390	81.620	82.680	80.970	83.800	82.200	0.000	77.410
2	12:18:57	78.260	82.070	82.560	79.820	81.670	82.720	0.000	76.500
3	12:19:05	81.180	83.490	82.280	80.280	82.060	79.050	0.000	76.900
x		97.846%	102.990%	103.134%	100.441%	103.136%	101.658%	0.000	96.172%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.701	1.185	0.247	0.720	1.377	2.441	0.000	0.592

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:18:50	94.243%	80.450	81.160	87.817%	78.960	79.770	81.910	82.660
2	12:18:57	96.925%	82.950	82.520	88.862%	79.550	79.490	80.670	81.890
3	12:19:05	96.298%	81.570	81.570	88.037%	78.960	79.500	81.410	81.480
x		95.822%	102.070%	102.187%	88.239%	98.945%	99.484%	101.665%	102.514%
σ		1.403%	n/a	n/a	0.551%	n/a	n/a	n/a	n/a
%RSD		1.464	1.530	0.851	0.624	0.430	0.201	0.767	0.734

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:18:50	89.093%	80.260	79.880	77.730	77.200	78.270	91.461%	92.761%
2	12:18:57	91.205%	80.330	79.650	77.170	75.680	77.630	93.160%	92.443%
3	12:19:05	91.957%	80.600	78.470	79.200	76.220	78.010	94.182%	95.346%
x		90.752%	100.495%	99.167%	97.546%	95.459%	97.464%	92.934%	93.517%
σ		1.485%	n/a	n/a	n/a	n/a	n/a	1.375%	1.593%
%RSD		1.636	0.222	0.954	1.341	1.007	0.413	1.479	1.703

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:18:50	78.220	77.860	77.530	75.890	75.700	79.675%
2	12:18:57	76.360	76.610	76.400	75.140	75.070	82.145%
3	12:19:05	78.120	77.260	76.370	74.560	75.320	82.548%
x		96.960%	96.554%	95.955%	93.996%	94.203%	81.456%
σ		n/a	n/a	n/a	n/a	n/a	1.555%
%RSD		1.352	0.807	0.863	0.887	0.417	1.910

ICB 5/8/2015 12:24:50 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:58	100.516%	-0.014	0.501	0.416	0.000	6.629	0.357	0.141
2	12:24:05	101.611%	0.048	0.517	0.299	0.000	6.136	0.478	-0.009
3	12:24:13	99.717%	-0.016	0.416	0.293	0.000	6.248	0.308	0.526
x		100.614%	0.006	0.478	0.336	0.000	6.338	0.381	0.219
σ		0.951%	0.036	0.054	0.069	0.000	0.258	0.087	0.276
%RSD		0.945	612.900	11.340	20.650	0.000	4.073	22.880	126.000

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:58	-0.309	28.590	0.000	15.400	-4.747	4.240	105.179%	-0.013
2	12:24:05	-0.342	32.050	0.000	15.260	5.364	2.840	102.265%	0.028
3	12:24:13	-0.276	36.480	0.000	15.950	0.659	3.274	97.377%	0.155
x		-0.309	32.370	0.000	15.540	0.425	3.451	101.607%	0.057
σ		0.033	3.953	0.000	0.360	5.060	0.716	3.943%	0.088
%RSD		10.670	12.210	0.000	2.320	1190.000	20.760	3.880	154.500

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:58	-0.031	-0.002	0.009	20.120	18.210	0.006	-0.015	-0.005
2	12:24:05	0.007	-0.002	0.010	16.150	16.510	-0.001	-0.006	0.010
3	12:24:13	0.035	0.002	0.018	13.880	11.260	-0.004	0.038	-0.032
x		0.003	-0.000	0.013	16.720	15.320	0.000	0.005	-0.009
σ		0.033	0.002	0.005	3.155	3.625	0.005	0.028	0.022
%RSD		990.300	511.600	41.090	18.880	23.650	1115.000	513.700	240.200

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:58	0.037	0.109	0.098	0.102	0.213	0.415	0.000	0.005
2	12:24:05	-0.050	0.140	0.098	0.023	0.052	0.163	0.000	0.004
3	12:24:13	-0.085	0.134	0.129	0.062	0.133	0.728	0.000	0.008
x		-0.033	0.127	0.108	0.062	0.133	0.435	0.000	0.005
σ		0.063	0.016	0.018	0.039	0.081	0.283	0.000	0.002
%RSD		191.600	12.930	16.490	63.320	60.540	64.960	0.000	33.380

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:58	97.124%	0.817	0.902	94.067%	-0.166	-0.232	0.009	-0.019
2	12:24:05	99.708%	0.700	0.637	89.452%	-0.122	-0.149	-0.004	-0.002
3	12:24:13	99.743%	0.537	0.586	94.581%	-0.178	-0.219	0.009	0.003
x		98.858%	0.685	0.708	92.700%	-0.155	-0.200	0.004	-0.006
σ		1.502%	0.141	0.170	2.824%	0.029	0.044	0.007	0.011
%RSD		1.520	20.550	23.980	3.047	18.980	22.210	173.300	181.500

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:58	94.200%	-0.295	-0.065	-0.104	-0.020	0.001	94.762%	94.930%
2	12:24:05	95.720%	-0.229	-0.021	-0.134	-0.020	-0.019	93.580%	94.100%
3	12:24:13	96.683%	-0.138	-0.039	-0.178	-0.020	0.001	94.244%	93.473%
x		95.534%	-0.221	-0.042	-0.139	-0.020	-0.006	94.195%	94.167%
σ		1.252%	0.079	0.022	0.037	0.000	0.012	0.593%	0.731%
%RSD		1.311	35.730	53.010	26.780	0.000	208.800	0.629	0.776

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:23:58	0.144	0.159	0.008	-0.017	0.002	82.711%
2	12:24:05	0.101	0.125	-0.015	-0.016	0.000	81.293%
3	12:24:13	0.110	0.081	-0.000	-0.004	0.003	78.422%
x		0.118	0.122	-0.002	-0.012	0.002	80.809%
σ		0.023	0.039	0.012	0.007	0.001	2.185%
%RSD		19.260	32.210	506.100	55.280	76.300	2.704

CRI 1554040 5/8/2015 12:29:58 PM QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:29:05	93.367%	1.227	22.170	21.860	0.000	507.600	494.700	479.500
2	12:29:13	98.691%	0.996	20.680	20.710	0.000	521.900	491.500	500.100
3	12:29:21	97.272%	1.109	19.680	20.690	0.000	511.600	498.900	508.200
x		96.444%	111.064%	416.870%	421.784%	0.000	642.092%	495.033%	495.918%
σ		2.757%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.859	10.430	6.008	3.176	0.000	1.436	0.750	2.989
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:29:05	33.690	486.500	0.000	565.000	524.400	488.400	101.622%	4.671
2	12:29:13	33.280	522.600	0.000	579.000	478.900	506.000	97.965%	4.536
3	12:29:21	35.020	518.400	0.000	595.000	536.700	514.800	97.836%	5.428
x		113.324%	101.839%	0.000	579.678%	513.330%	503.080%	99.141%	97.564%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.150%	n/a
%RSD		2.669	3.875	0.000	2.593	5.932	2.672	2.168	9.854
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:29:05	0.941	2.028	5.020	56.680	52.760	0.474	1.103	2.248
2	12:29:13	0.935	2.070	5.225	57.560	54.180	0.554	1.035	2.316
3	12:29:21	0.811	1.961	5.357	56.730	57.760	0.493	0.968	2.265
x		89.536%	100.997%	104.016%	113.987%	109.797%	101.389%	103.549%	113.811%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		8.210	2.722	3.274	0.867	4.690	8.219	6.525	1.574
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:29:05	2.064	6.166	6.344	1.104	5.713	5.841	0.000	4.576
2	12:29:13	2.078	6.688	6.726	1.002	5.595	7.032	0.000	4.921
3	12:29:21	2.196	6.314	6.310	1.019	5.332	6.757	0.000	5.042
x		105.629%	127.781%	129.202%	104.176%	110.934%	130.862%	0.000	96.921%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.416	4.209	3.578	5.277	3.512	9.529	0.000	4.992
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:29:05	97.171%	4.881	4.833	84.275%	0.847	0.721	0.951	1.064
2	12:29:13	97.948%	4.761	4.778	86.780%	0.992	0.884	1.075	1.196
3	12:29:21	100.479%	5.023	4.665	85.797%	1.039	0.814	1.192	1.279
x		98.533%	97.765%	95.170%	85.618%	95.938%	80.610%	107.277%	118.008%
σ		1.730%	n/a	n/a	1.262%	n/a	n/a	n/a	n/a
%RSD		1.755	2.677	1.799	1.474	10.440	10.140	11.260	9.194
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:29:05	85.756%	4.152	1.882	1.846	10.790	9.731	82.179%	82.093%
2	12:29:13	86.922%	3.769	2.064	1.500	9.364	9.324	83.773%	81.977%
3	12:29:21	87.006%	4.368	2.103	2.015	10.330	10.590	84.404%	82.912%
x		86.562%	81.925%	100.825%	89.347%	101.606%	98.813%	83.452%	82.327%
σ		0.699%	n/a	n/a	n/a	n/a	n/a	1.147%	0.510%
%RSD		0.807	7.404	5.859	14.670	7.162	6.527	1.374	0.619
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:29:05	0.924	0.925	1.096	0.919	1.038	58.970%		
2	12:29:13	0.961	0.980	0.952	0.968	1.013	60.206%		
3	12:29:21	0.960	0.956	1.060	1.092	1.039	59.932%		
x		94.806%	95.368%	103.598%	99.303%	102.990%	59.702%		
σ		n/a	n/a	n/a	n/a	n/a	0.649%		
%RSD		2.240	2.863	7.260	8.967	1.402	1.087		

ICSA 1533081 5/8/2015 12:35:06 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:34:13	71.962%	0.043	0.509	1.036	0.000	103400.000	102700.000	101200.000
2	12:34:21	68.689%	0.138	0.602	1.036	0.000	109300.000	106700.000	105900.000
3	12:34:28	67.716%	0.098	0.613	1.006	0.000	108900.000	108400.000	108500.000
x		69.456%	0.093	0.575	1.026	0.000	107200.000	106000.000	105200.000
σ		2.225%	0.048	0.057	0.017	0.000	3323.000	2917.000	3682.000
%RSD		3.203	51.490	9.917	1.668	0.000	3.100	2.753	3.501
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:34:13	104000.000	12.250	0.000	100600.000	101200.000	100200.000	78.836%	2145.000
2	12:34:21	108200.000	17.360	0.000	106400.000	106500.000	106400.000	75.371%	2260.000
3	12:34:28	110400.000	13.290	0.000	105100.000	105900.000	103600.000	74.959%	2244.000
x		107500.000	14.300	0.000	104000.000	104500.000	103400.000	76.389%	2216.000
σ		3280.000	2.704	0.000	3045.000	2873.000	3143.000	2.129%	62.500
%RSD		3.050	18.910	0.000	2.928	2.749	3.041	2.787	2.820
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:34:13	0.277	1.533	2.192	101600.000	92740.000	0.258	0.420	1.426
2	12:34:21	0.246	1.681	2.238	105800.000	97640.000	0.217	0.443	1.328
3	12:34:28	0.425	1.643	2.252	107300.000	97560.000	0.257	0.433	1.383
x		0.316	1.619	2.227	104900.000	95980.000	0.244	0.432	1.379
σ		0.096	0.077	0.032	2951.000	2804.000	0.023	0.012	0.049
%RSD		30.340	4.738	1.420	2.813	2.921	9.609	2.729	3.542
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:34:13	2.216	5.366	2.408	0.507	0.182	1.484	0.000	1.166
2	12:34:21	2.492	5.490	2.656	0.367	0.082	1.238	0.000	1.061
3	12:34:28	2.157	4.829	2.643	0.450	0.081	1.299	0.000	1.189
x		2.288	5.228	2.569	0.442	0.115	1.340	0.000	1.139
σ		0.179	0.352	0.139	0.070	0.058	0.128	0.000	0.069
%RSD		7.829	6.723	5.424	15.960	50.520	9.577	0.000	6.032
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:34:13	78.699%	2310.000	2379.000	66.560%	-0.241	-0.236	1.994	1.546
2	12:34:21	79.614%	2299.000	2370.000	66.971%	-0.203	-0.269	2.255	1.526
3	12:34:28	80.277%	2310.000	2371.000	67.638%	-0.222	-0.243	1.980	1.476
x		79.530%	2306.000	2373.000	67.057%	-0.222	-0.249	2.076	1.516
σ		0.793%	5.920	4.740	0.544%	0.019	0.018	0.155	0.036
%RSD		0.997	0.257	0.200	0.811	8.663	7.109	7.457	2.384
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:34:13	73.449%	-0.126	0.144	0.058	0.418	0.405	81.176%	81.950%
2	12:34:21	74.063%	-0.132	0.112	0.072	0.293	0.446	83.730%	84.958%
3	12:34:28	75.582%	-0.419	0.037	0.012	0.518	0.390	85.175%	85.719%
x		74.365%	-0.225	0.097	0.047	0.410	0.414	83.360%	84.209%
σ		1.098%	0.167	0.055	0.031	0.113	0.029	2.025%	1.993%
%RSD		1.477	74.240	56.210	66.140	27.500	7.081	2.430	2.367
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	12:34:13	0.108	0.089	0.377	0.328	0.340	65.568%		
2	12:34:21	0.054	0.072	0.372	0.350	0.333	66.324%		
3	12:34:28	0.060	0.079	0.365	0.406	0.408	68.335%		
x		0.074	0.080	0.371	0.361	0.360	66.742%		
σ		0.030	0.008	0.006	0.041	0.042	1.430%		
%RSD		40.330	10.580	1.670	11.210	11.600	2.143		

ICSAB 1558998 5/8/2015 12:40:14 PM QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:39:21	68.052%	19.630	45.460	44.960	0.000	104900.000	101400.000	101800.000
2	12:39:29	66.355%	19.440	42.460	46.570	0.000	106700.000	103400.000	104100.000
3	12:39:36	62.962%	20.160	43.170	44.610	0.000	111200.000	108000.000	108600.000
x		65.790%	98.722%	87.392%	90.755%	0.000	107.605%	104.283%	104.853%
σ		2.592%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		3.939	1.906	3.590	2.303	0.000	3.040	3.244	3.270

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:39:21	104600.000	550.900	0.000	99140.000	97710.000	99510.000	75.508%	2107.000
2	12:39:29	108200.000	598.000	0.000	105100.000	104800.000	102700.000	72.599%	2178.000
3	12:39:36	112900.000	620.000	0.000	104300.000	105000.000	101700.000	71.710%	2245.000
x		108.556%	117.922%	0.000	102.838%	102.508%	101.299%	73.272%	108.843%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.987%	n/a
%RSD		3.847	5.991	0.000	3.140	4.051	1.605	2.711	3.174

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:39:21	19.700	21.980	22.330	101800.000	91850.000	20.390	19.850	20.680
2	12:39:29	20.360	21.980	23.480	106700.000	96700.000	20.800	19.880	20.840
3	12:39:36	20.960	22.750	23.400	105600.000	96870.000	20.560	21.170	20.980
x		101.701%	111.172%	115.348%	104.688%	95.141%	102.899%	101.501%	104.155%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		3.112	2.009	2.780	2.455	2.997	0.999	3.724	0.722

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:39:21	21.920	22.860	20.970	20.750	49.930	51.210	0.000	21.080
2	12:39:29	21.470	23.970	21.900	20.220	50.490	47.430	0.000	21.300
3	12:39:36	22.690	23.620	22.090	20.570	50.980	50.460	0.000	21.280
x		110.134%	93.947%	86.628%	102.572%	100.929%	99.399%	0.000	106.099%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		2.808	2.423	2.772	1.324	1.041	4.030	0.000	0.557

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:39:21	78.463%	2289.000	2342.000	68.345%	20.160	19.320	22.250	24.490
2	12:39:29	79.881%	2229.000	2330.000	69.212%	19.980	20.350	21.220	24.630
3	12:39:36	78.699%	2281.000	2359.000	68.977%	20.340	20.030	22.970	23.690
x		79.014%	113.318%	117.184%	68.845%	100.803%	99.496%	110.740%	121.339%
σ		0.760%	n/a	n/a	0.448%	n/a	n/a	n/a	n/a
%RSD		0.962	1.443	0.642	0.651	0.904	2.660	3.966	2.080

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:39:21	75.172%	106.400	21.030	20.040	19.690	19.260	85.094%	86.950%
2	12:39:29	77.047%	104.000	19.970	20.390	19.650	21.280	86.878%	88.402%
3	12:39:36	76.576%	104.900	20.620	20.510	18.770	21.000	86.578%	89.213%
x		76.265%	105.111%	102.692%	101.564%	96.852%	102.553%	86.183%	88.188%
σ		0.975%	n/a	n/a	n/a	n/a	n/a	0.955%	1.146%
%RSD		1.279	1.167	2.608	1.217	2.693	5.336	1.108	1.300

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:39:21	20.780	20.860	21.600	21.700	21.550	75.333%
2	12:39:29	20.720	20.980	21.150	21.140	21.230	75.563%
3	12:39:36	20.510	20.760	21.150	21.160	20.930	75.818%
x		103.340%	104.330%	106.484%	106.659%	106.183%	75.571%
σ		n/a	n/a	n/a	n/a	n/a	0.243%
%RSD		0.693	0.511	1.225	1.487	1.450	0.321

CCV 1558997 5/8/2015 12:49:08 PM QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:48:16	80.136%	107.200	99.230	94.880	0.000	51620.000	50350.000	50610.000
2	12:48:24	79.047%	105.000	93.810	94.530	0.000	51780.000	51690.000	51550.000
3	12:48:31	76.362%	103.300	97.120	98.320	0.000	52360.000	53030.000	52410.000
x		78.515%	105.170%	96.719%	95.912%	0.000	103.835%	103.382%	103.049%
σ		1.942%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		2.474	1.843	2.824	2.187	0.000	0.750	2.587	1.749

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:48:16	495.100	5450.000	0.000	50450.000	48470.000	49960.000	84.876%	99.920
2	12:48:24	503.700	5698.000	0.000	52130.000	51360.000	50430.000	81.016%	102.900
3	12:48:31	524.000	5781.000	0.000	50670.000	49460.000	51080.000	81.440%	104.100
x		101.516%	112.861%	0.000	102.164%	99.529%	100.979%	82.444%	102.337%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.117%	n/a
%RSD		2.925	3.046	0.000	1.786	2.947	1.117	2.568	2.127

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:48:16	94.430	97.950	528.600	24900.000	24370.000	100.200	100.700	101.700
2	12:48:24	98.930	99.740	542.200	25420.000	24940.000	102.500	100.200	103.700
3	12:48:31	100.100	100.100	550.300	25300.000	25040.000	101.500	103.000	102.500
x		97.805%	99.247%	108.076%	100.824%	99.143%	101.394%	101.294%	102.624%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		3.047	1.145	2.024	1.089	1.468	1.171	1.478	0.950

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:48:16	100.900	105.400	106.200	105.900	108.800	109.000	0.000	100.600
2	12:48:24	104.400	113.200	108.100	103.900	108.700	106.200	0.000	100.400
3	12:48:31	102.100	108.100	111.000	105.000	104.900	108.500	0.000	98.850
x		102.482%	108.917%	108.437%	104.960%	107.467%	107.908%	0.000	99.951%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.757	3.663	2.274	0.949	2.035	1.428	0.000	0.964

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:48:16	81.394%	105.100	106.500	72.637%	103.300	104.400	104.800	108.200
2	12:48:24	83.655%	106.800	106.900	72.984%	102.900	104.100	105.100	107.900
3	12:48:31	85.703%	103.500	109.000	73.021%	103.100	103.100	105.200	106.200
x		83.584%	105.149%	107.454%	72.881%	103.108%	103.873%	105.028%	107.445%
σ		2.156%	n/a	n/a	0.212%	n/a	n/a	n/a	n/a
%RSD		2.579	1.564	1.241	0.291	0.209	0.682	0.202	0.992

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:48:16	76.408%	99.230	104.200	103.000	98.920	99.830	83.713%	82.874%
2	12:48:24	77.357%	101.200	103.700	104.300	100.800	104.000	84.045%	84.867%
3	12:48:31	79.718%	98.500	103.100	101.400	98.160	102.400	85.036%	86.392%
x		77.828%	99.658%	103.696%	102.909%	99.283%	102.070%	84.264%	84.711%
σ		1.705%	n/a	n/a	n/a	n/a	n/a	0.688%	1.764%
%RSD		2.190	1.425	0.523	1.449	1.353	2.072	0.817	2.083

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:48:16	101.700	101.500	101.700	102.200	101.500	61.175%
2	12:48:24	100.300	101.500	102.000	103.400	102.000	64.073%
3	12:48:31	99.970	100.500	101.000	103.700	101.800	66.880%
x		100.676%	101.148%	101.572%	103.086%	101.733%	64.042%
σ		n/a	n/a	n/a	n/a	n/a	2.853%
%RSD		0.911	0.567	0.491	0.769	0.265	4.455

CCB1 5/8/2015 12:58:02 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:11	88.375%	-0.024	0.138	-0.080	0.000	9.065	0.375	0.413
2	12:57:18	85.914%	-0.011	0.029	-0.136	0.000	10.010	0.938	0.846
3	12:57:26	82.425%	-0.012	-0.134	-0.157	0.000	9.804	1.172	0.782
x		85.571%	-0.016	0.011	-0.124	0.000	9.626	0.828	0.680
σ		2.990%	0.007	0.137	0.040	0.000	0.496	0.410	0.234
%RSD		3.494	46.080	1282.000	32.070	0.000	5.154	49.490	34.340

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:11	-0.203	-5.897	0.000	6.122	-2.400	1.859	91.158%	0.007
2	12:57:18	-0.193	-8.125	0.000	7.432	-6.170	3.184	87.992%	0.121
3	12:57:26	-0.282	-4.409	0.000	8.953	2.655	1.775	85.321%	0.107
x		-0.226	-6.144	0.000	7.502	-1.972	2.273	88.157%	0.078
σ		0.048	1.870	0.000	1.416	4.428	0.790	2.922%	0.063
%RSD		21.350	30.440	0.000	18.880	224.600	34.760	3.314	79.830

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:11	0.022	0.003	0.018	7.066	6.945	-0.006	-0.027	-0.029
2	12:57:18	0.002	-0.000	0.020	7.491	5.112	-0.002	0.028	-0.009
3	12:57:26	-0.011	-0.004	0.024	7.040	5.597	0.002	0.031	-0.005
x		0.005	-0.000	0.021	7.199	5.884	-0.002	0.010	-0.014
σ		0.016	0.004	0.003	0.253	0.950	0.004	0.033	0.013
%RSD		363.400	782.100	13.590	3.515	16.140	210.800	313.600	89.170

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:11	-0.049	0.060	0.112	-0.014	0.033	0.341	0.000	0.005
2	12:57:18	-0.056	0.163	0.136	-0.037	-0.053	0.333	0.000	0.005
3	12:57:26	0.013	0.225	0.074	0.005	0.005	0.520	0.000	0.001
x		-0.031	0.149	0.107	-0.015	-0.005	0.398	0.000	0.004
σ		0.038	0.083	0.031	0.021	0.044	0.106	0.000	0.002
%RSD		122.500	55.670	29.180	137.300	880.400	26.500	0.000	54.970

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:11	92.698%	0.440	0.681	91.626%	-0.144	-0.257	0.009	-0.008
2	12:57:18	95.410%	0.459	0.555	91.394%	-0.189	-0.186	-0.004	0.003
3	12:57:26	93.741%	0.349	0.593	90.714%	-0.117	-0.200	-0.004	0.009
x		93.950%	0.416	0.609	91.245%	-0.150	-0.215	0.000	0.002
σ		1.368%	0.059	0.065	0.474%	0.036	0.037	0.008	0.008
%RSD		1.456	14.110	10.600	0.520	24.240	17.440	18100.000	533.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:11	94.212%	-0.655	-0.031	-0.112	-0.020	0.001	97.654%	97.692%
2	12:57:18	94.664%	-0.823	-0.021	-0.077	0.011	0.001	97.421%	99.007%
3	12:57:26	93.359%	-0.712	-0.014	-0.089	0.044	0.001	98.450%	98.956%
x		94.078%	-0.730	-0.022	-0.093	0.012	0.001	97.842%	98.552%
σ		0.663%	0.085	0.009	0.018	0.032	0.000	0.539%	0.745%
%RSD		0.704	11.690	41.180	19.190	278.500	2.081	0.551	0.756

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	12:57:11	0.018	0.039	-0.008	-0.022	-0.002	97.159%
2	12:57:18	0.026	0.040	-0.008	-0.019	0.003	97.450%
3	12:57:26	0.019	0.039	-0.010	-0.022	-0.008	94.379%
x		0.021	0.039	-0.009	-0.021	-0.002	96.330%
σ		0.005	0.000	0.001	0.002	0.006	1.695%
%RSD		22.060	1.014	16.310	7.725	225.400	1.760

180-43698-B-10-A 5/8/2015 1:03:13 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:18	64.320%	10.760	56.290	55.580	0.000	2900.000	44940.000	44860.000
2	13:02:26	67.481%	10.490	51.620	49.460	0.000	2865.000	44270.000	45820.000
3	13:02:34	64.959%	10.320	52.350	52.930	0.000	3035.000	45730.000	45860.000
x		65.587%	10.520	53.420	52.660	0.000	2933.000	44980.000	45510.000
σ		1.672%	0.224	2.513	3.066	0.000	89.840	732.000	567.000
%RSD		2.549	2.131	4.704	5.823	0.000	3.063	1.627	1.246

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:18	118300.000	3830.000	0.000	16400.000	33510.000	33770.000	71.883%	3012.000
2	13:02:26	118800.000	4008.000	0.000	16140.000	32330.000	34960.000	71.756%	3033.000
3	13:02:34	122100.000	4035.000	0.000	16830.000	34290.000	35200.000	70.793%	3099.000
x		119800.000	3957.000	0.000	16460.000	33380.000	34640.000	71.478%	3048.000
σ		2068.000	111.400	0.000	349.300	987.300	763.200	0.596%	45.650
%RSD		1.726	2.816	0.000	2.122	2.958	2.203	0.834	1.498

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:18	406.000	414.700	2227.000	252200.000	234900.000	197.900	368.500	500.300
2	13:02:26	413.400	427.300	2224.000	257600.000	239300.000	201.600	378.600	516.400
3	13:02:34	428.000	434.100	2236.000	261800.000	244400.000	203.900	367.500	509.100
x		415.800	425.400	2229.000	257200.000	239600.000	201.100	371.500	508.600
σ		11.200	9.852	6.033	4835.000	4763.000	3.011	6.128	8.052
%RSD		2.694	2.316	0.271	1.880	1.988	1.497	1.649	1.583

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:18	496.100	2049.000	2070.000	42.660	8.592	9.635	0.000	170.200
2	13:02:26	510.000	2113.000	2115.000	41.980	7.887	8.843	0.000	172.300
3	13:02:34	503.300	2138.000	2121.000	42.360	7.748	9.621	0.000	175.400
x		503.200	2100.000	2102.000	42.330	8.075	9.366	0.000	172.600
σ		6.944	45.610	27.760	0.342	0.453	0.453	0.000	2.624
%RSD		1.380	2.172	1.320	0.808	5.603	4.836	0.000	1.520

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:18	0.000	17.570	16.000	66.759%	2.013	1.790	6.035	8.314
2	13:02:26	0.000	16.120	15.080	67.079%	1.952	1.738	6.833	8.056
3	13:02:34	0.000	15.520	15.220	68.097%	1.997	1.737	6.350	8.063
x		0.000	16.400	15.430	67.312%	1.987	1.755	6.406	8.145
σ		0.000	1.052	0.494	0.699%	0.031	0.030	0.402	0.147
%RSD		0.000	6.416	3.200	1.038	1.580	1.715	6.282	1.804

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:18	69.339%	69.960	5.427	5.327	766.500	754.800	89.785%	89.253%
2	13:02:26	70.189%	69.480	5.464	5.667	765.400	760.900	91.887%	92.851%
3	13:02:34	70.864%	65.680	5.504	5.582	766.700	767.300	91.942%	93.365%
x		70.131%	68.370	5.465	5.525	766.200	761.000	91.205%	91.823%
σ		0.764%	2.344	0.039	0.177	0.695	6.278	1.230%	2.241%
%RSD		1.090	3.429	0.705	3.203	0.091	0.825	1.349	2.440

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:02:18	2.222	2.378	519.400	486.000	509.100	54.362%
2	13:02:26	2.563	2.291	531.100	496.700	515.900	53.983%
3	13:02:34	2.400	2.201	533.800	498.000	515.400	53.679%
x		2.395	2.290	528.100	493.600	513.500	54.008%
σ		0.171	0.088	7.642	6.584	3.806	0.342%
%RSD		7.126	3.856	1.447	1.334	0.741	0.633

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:07:25	69.777%	11.730	48.850	47.160	0.000	2629.000	37760.000	39780.000
2	13:07:32	67.891%	11.750	48.540	50.710	0.000	2790.000	40370.000	41100.000
3	13:07:40	67.317%	11.040	49.660	46.510	0.000	2876.000	40870.000	40600.000
x		68.329%	11.510	49.020	48.130	0.000	2765.000	39670.000	40490.000
σ		1.287%	0.406	0.575	2.259	0.000	125.400	1667.000	668.800
%RSD		1.883	3.531	1.174	4.695	0.000	4.536	4.203	1.652

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:07:25	116400.000	3781.000	0.000	14820.000	29070.000	30080.000	81.235%	2761.000
2	13:07:32	119000.000	3907.000	0.000	15330.000	30340.000	31040.000	78.399%	2918.000
3	13:07:40	116200.000	3948.000	0.000	14660.000	29150.000	30490.000	77.924%	2906.000
x		117200.000	3879.000	0.000	14940.000	29520.000	30530.000	79.186%	2861.000
σ		1542.000	87.100	0.000	352.100	711.400	483.000	1.791%	87.460
%RSD		1.316	2.246	0.000	2.357	2.410	1.582	2.261	3.056

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:07:25	392.700	416.500	2610.000	259600.000	242200.000	181.300	352.400	500.100
2	13:07:32	402.300	433.000	2676.000	269400.000	250400.000	186.400	367.300	516.600
3	13:07:40	401.000	437.800	2677.000	271300.000	250200.000	190.300	364.100	523.800
x		398.700	429.100	2654.000	266800.000	247600.000	186.000	361.300	513.500
σ		5.189	11.190	38.480	6241.000	4675.000	4.556	7.838	12.180
%RSD		1.302	2.609	1.450	2.340	1.888	2.450	2.170	2.372

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:07:25	500.100	2140.000	2153.000	42.110	6.737	11.100	0.000	174.000
2	13:07:32	528.400	2220.000	2240.000	42.870	6.710	5.787	0.000	175.900
3	13:07:40	524.800	2222.000	2229.000	42.840	6.227	8.977	0.000	176.600
x		517.800	2194.000	2207.000	42.610	6.558	8.621	0.000	175.500
σ		15.420	46.570	47.720	0.428	0.287	2.675	0.000	1.367
%RSD		2.977	2.123	2.162	1.004	4.375	31.020	0.000	0.779

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:07:25	0.000	14.620	14.220	68.304%	2.409	2.671	7.496	8.434
2	13:07:32	0.000	14.210	14.030	69.138%	2.786	2.333	7.590	8.461
3	13:07:40	0.000	14.170	14.310	68.991%	2.607	2.609	6.865	8.536
x		0.000	14.340	14.190	68.811%	2.601	2.538	7.317	8.477
σ		0.000	0.247	0.139	0.445%	0.189	0.180	0.394	0.053
%RSD		0.000	1.724	0.980	0.646	7.258	7.101	5.387	0.628

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:07:25	71.528%	65.380	5.797	5.349	842.600	835.800	95.514%	96.955%
2	13:07:32	72.996%	63.460	5.692	5.663	839.900	832.600	98.494%	100.496%
3	13:07:40	73.100%	66.220	5.871	5.658	852.700	845.400	98.235%	99.607%
x		72.541%	65.020	5.787	5.556	845.100	838.000	97.414%	99.019%
σ		0.879%	1.415	0.090	0.180	6.734	6.657	1.650%	1.842%
%RSD		1.212	2.176	1.549	3.231	0.797	0.794	1.694	1.860

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:07:25	2.518	2.447	601.200	556.800	581.400	63.059%
2	13:07:32	2.557	2.382	590.400	548.500	571.800	66.441%
3	13:07:40	2.590	2.470	606.200	565.600	588.200	65.484%
x		2.555	2.433	599.300	556.900	580.500	64.995%
σ		0.036	0.046	8.075	8.549	8.242	1.743%
%RSD		1.417	1.880	1.348	1.535	1.420	2.682

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:12:29	63.081%	12.130	32.630	33.310	0.000	2409.000	34030.000	33780.000
2	13:12:36	63.956%	11.820	32.750	31.070	0.000	2426.000	34170.000	33620.000
3	13:12:44	65.874%	11.340	30.480	30.170	0.000	2343.000	33110.000	33380.000
x		64.304%	11.760	31.950	31.520	0.000	2393.000	33770.000	33590.000
σ		1.429%	0.399	1.280	1.616	0.000	43.700	574.400	201.900
%RSD		2.222	3.387	4.007	5.128	0.000	1.826	1.701	0.601
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:12:29	140100.000	3251.000	0.000	10950.000	26120.000	26700.000	77.107%	2093.000
2	13:12:36	144400.000	3246.000	0.000	11280.000	26620.000	27160.000	75.597%	2178.000
3	13:12:44	141600.000	3240.000	0.000	11170.000	27280.000	27930.000	74.780%	2143.000
x		142100.000	3246.000	0.000	11130.000	26670.000	27260.000	75.828%	2138.000
σ		2179.000	5.314	0.000	167.500	578.900	621.200	1.181%	43.120
%RSD		1.534	0.164	0.000	1.505	2.170	2.279	1.557	2.017
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:12:29	429.800	459.800	4562.000	293800.000	266700.000	187.100	331.300	631.500
2	13:12:36	430.600	451.200	4792.000	297300.000	270900.000	186.100	332.300	640.800
3	13:12:44	444.100	465.200	4720.000	299900.000	274200.000	191.500	332.700	632.600
x		434.900	458.700	4691.000	297000.000	270600.000	188.200	332.100	635.000
σ		8.054	7.036	117.500	3064.000	3785.000	2.835	0.735	5.072
%RSD		1.852	1.534	2.504	1.032	1.399	1.506	0.221	0.799
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:12:29	621.800	2289.000	2267.000	54.530	7.990	9.515	0.000	180.300
2	13:12:36	636.000	2312.000	2293.000	56.110	7.799	10.760	0.000	180.800
3	13:12:44	628.800	2329.000	2340.000	56.150	8.393	11.950	0.000	179.900
x		628.800	2310.000	2300.000	55.600	8.061	10.740	0.000	180.300
σ		7.093	20.210	36.960	0.924	0.303	1.216	0.000	0.473
%RSD		1.128	0.875	1.607	1.662	3.763	11.320	0.000	0.262
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:12:29	0.000	13.610	13.840	69.180%	4.152	4.014	8.053	9.005
2	13:12:36	0.000	14.950	14.840	70.272%	4.063	4.256	7.350	8.641
3	13:12:44	0.000	13.570	13.810	69.599%	4.131	4.154	7.046	9.143
x		0.000	14.040	14.160	69.684%	4.115	4.141	7.483	8.930
σ		0.000	0.789	0.585	0.551%	0.047	0.122	0.517	0.260
%RSD		0.000	5.615	4.132	0.791	1.133	2.936	6.902	2.907
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:12:29	72.756%	65.080	6.299	5.963	985.900	971.600	97.645%	99.655%
2	13:12:36	73.644%	63.700	6.453	5.957	982.500	979.900	99.905%	100.543%
3	13:12:44	73.432%	66.900	6.171	5.476	994.700	980.800	99.331%	101.930%
x		73.277%	65.230	6.308	5.799	987.700	977.400	98.960%	100.709%
σ		0.463%	1.603	0.141	0.280	6.331	5.092	1.175%	1.147%
%RSD		0.632	2.458	2.240	4.825	0.641	0.521	1.187	1.139
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:12:29	2.110	2.301	701.100	652.000	677.400	72.649%		
2	13:12:36	2.296	2.315	701.000	651.400	679.900	74.156%		
3	13:12:44	2.254	2.262	700.400	651.200	678.100	75.682%		
x		2.220	2.292	700.800	651.500	678.500	74.162%		
σ		0.097	0.027	0.355	0.412	1.274	1.517%		
%RSD		4.388	1.197	0.051	0.063	0.188	2.045		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:17:33	66.976%	7.255	23.610	24.600	0.000	1332.000	31610.000	31170.000
2	13:17:40	63.456%	6.811	25.490	25.570	0.000	1322.000	32760.000	32460.000
3	13:17:48	63.914%	7.057	23.920	23.780	0.000	1389.000	33010.000	32190.000
x		64.782%	7.041	24.340	24.650	0.000	1348.000	32460.000	31940.000
σ		1.914%	0.223	1.009	0.896	0.000	36.220	744.800	680.000
%RSD		2.954	3.162	4.145	3.635	0.000	2.688	2.294	2.129
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:17:33	125300.000	3013.000	0.000	11290.000	37710.000	39180.000	74.153%	3179.000
2	13:17:40	129000.000	2973.000	0.000	11300.000	39160.000	39800.000	73.179%	3254.000
3	13:17:48	129900.000	3046.000	0.000	11630.000	40100.000	40330.000	72.342%	3176.000
x		128100.000	3011.000	0.000	11400.000	38990.000	39770.000	73.225%	3203.000
σ		2425.000	36.390	0.000	191.500	1206.000	573.200	0.906%	43.990
%RSD		1.894	1.209	0.000	1.679	3.092	1.441	1.238	1.373
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:17:33	311.900	242.000	5393.000	219000.000	201600.000	145.200	224.000	293.200
2	13:17:40	322.300	243.300	5462.000	220500.000	203300.000	145.100	230.600	286.800
3	13:17:48	321.600	250.600	5491.000	223100.000	206200.000	150.400	227.600	287.200
x		318.600	245.300	5449.000	220800.000	203700.000	146.900	227.400	289.100
σ		5.791	4.613	50.410	2081.000	2324.000	3.060	3.323	3.581
%RSD		1.818	1.881	0.925	0.942	1.141	2.083	1.461	1.239
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:17:33	292.300	984.000	996.300	32.610	5.938	8.482	0.000	180.800
2	13:17:40	294.500	991.800	992.100	33.710	5.041	6.430	0.000	184.000
3	13:17:48	293.600	1007.000	1023.000	34.180	5.320	7.466	0.000	181.700
x		293.500	994.300	1004.000	33.500	5.433	7.459	0.000	182.200
σ		1.118	11.640	17.010	0.805	0.459	1.026	0.000	1.663
%RSD		0.381	1.171	1.695	2.404	8.444	13.760	0.000	0.913
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:17:33	0.000	6.952	6.712	65.621%	1.254	1.017	2.320	3.437
2	13:17:40	0.000	7.534	7.305	66.627%	1.112	1.113	2.342	3.525
3	13:17:48	0.000	7.370	6.949	66.892%	1.185	1.084	2.453	3.958
x		0.000	7.285	6.988	66.380%	1.184	1.071	2.372	3.640
σ		0.000	0.300	0.298	0.670%	0.071	0.049	0.071	0.279
%RSD		0.000	4.117	4.270	1.010	5.986	4.610	3.004	7.668
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:17:33	69.205%	46.800	2.196	1.814	940.800	939.700	88.256%	89.661%
2	13:17:40	69.290%	47.600	1.928	2.073	940.000	941.100	88.868%	89.879%
3	13:17:48	68.261%	47.150	1.892	1.805	959.700	958.400	86.985%	90.249%
x		68.919%	47.180	2.005	1.897	946.800	946.400	88.036%	89.930%
σ		0.571%	0.401	0.166	0.152	11.170	10.430	0.960%	0.297%
%RSD		0.829	0.851	8.260	8.029	1.180	1.103	1.091	0.331
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:17:33	1.483	1.593	248.700	230.900	240.000	60.745%		
2	13:17:40	1.578	1.611	251.600	234.200	242.300	59.853%		
3	13:17:48	1.688	1.498	248.100	233.000	241.700	58.840%		
x		1.583	1.567	249.500	232.700	241.400	59.813%		
σ		0.103	0.061	1.873	1.681	1.197	0.953%		
%RSD		6.488	3.875	0.751	0.722	0.496	1.593		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:22:37	66.461%	6.462	22.460	22.080	0.000	1707.000	25490.000	25630.000
2	13:22:44	64.913%	6.202	23.230	23.310	0.000	1604.000	25900.000	25330.000
3	13:22:52	65.255%	6.350	22.080	22.990	0.000	1624.000	25510.000	24900.000
x		65.543%	6.338	22.590	22.800	0.000	1645.000	25630.000	25280.000
σ		0.814%	0.131	0.585	0.640	0.000	54.670	230.500	365.400
%RSD		1.241	2.059	2.591	2.807	0.000	3.323	0.899	1.445

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:22:37	99500.000	2448.000	0.000	10280.000	165400.000	172000.000	71.877%	3076.000
2	13:22:44	102500.000	2480.000	0.000	10800.000	164000.000	167900.000	70.759%	3077.000
3	13:22:52	101400.000	2497.000	0.000	10490.000	168200.000	169600.000	71.542%	3126.000
x		101100.000	2475.000	0.000	10520.000	165900.000	169800.000	71.393%	3093.000
σ		1520.000	24.800	0.000	261.300	2138.000	2048.000	0.574%	28.990
%RSD		1.503	1.002	0.000	2.483	1.289	1.206	0.803	0.937

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:22:37	261.000	194.300	5093.000	193800.000	179400.000	121.000	182.300	216.700
2	13:22:44	257.500	197.300	5082.000	197200.000	183400.000	123.200	179.300	215.200
3	13:22:52	255.700	194.100	5060.000	190500.000	179500.000	122.000	181.500	218.300
x		258.100	195.300	5078.000	193800.000	180800.000	122.100	181.100	216.700
σ		2.681	1.764	16.570	3380.000	2308.000	1.125	1.547	1.537
%RSD		1.039	0.903	0.326	1.744	1.277	0.921	0.854	0.710

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:22:37	217.000	745.200	754.800	34.580	4.229	3.644	0.000	309.300
2	13:22:44	219.200	770.800	754.800	34.230	5.155	8.526	0.000	305.300
3	13:22:52	220.600	744.400	746.400	34.090	5.719	8.068	0.000	302.400
x		218.900	753.500	752.000	34.300	5.034	6.746	0.000	305.700
σ		1.826	15.000	4.828	0.251	0.752	2.696	0.000	3.470
%RSD		0.834	1.990	0.642	0.732	14.940	39.960	0.000	1.135

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:22:37	0.000	5.635	5.170	59.077%	0.769	0.819	2.204	2.607
2	13:22:44	0.000	5.764	5.591	59.278%	0.926	0.772	1.903	2.966
3	13:22:52	0.000	5.350	5.529	59.813%	0.741	0.717	1.897	2.702
x		0.000	5.583	5.430	59.389%	0.812	0.770	2.001	2.758
σ		0.000	0.212	0.227	0.381%	0.099	0.051	0.175	0.186
%RSD		0.000	3.790	4.180	0.641	12.240	6.647	8.758	6.743

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:22:37	61.892%	42.810	1.593	1.507	823.300	812.100	77.246%	77.789%
2	13:22:44	62.637%	42.290	1.557	1.133	851.600	836.700	77.556%	78.957%
3	13:22:52	63.619%	44.490	1.331	1.159	837.000	823.000	79.882%	81.267%
x		62.716%	43.200	1.494	1.266	837.300	823.900	78.228%	79.338%
σ		0.866%	1.151	0.142	0.209	14.160	12.350	1.441%	1.770%
%RSD		1.381	2.664	9.493	16.510	1.691	1.499	1.842	2.231

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:22:37	1.230	1.221	185.600	173.200	178.600	46.918%
2	13:22:44	1.297	1.335	181.900	171.900	177.400	50.105%
3	13:22:52	1.426	1.365	187.600	173.600	180.300	50.884%
x		1.318	1.307	185.000	172.900	178.800	49.302%
σ		0.099	0.076	2.887	0.919	1.495	2.101%
%RSD		7.534	5.813	1.560	0.531	0.836	4.262

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:41	74.183%	5.869	22.680	24.700	0.000	2015.000	18890.000	19050.000
2	13:27:48	68.918%	6.339	27.530	26.670	0.000	2168.000	20030.000	20370.000
3	13:27:56	72.966%	6.287	23.270	23.010	0.000	2060.000	19500.000	19480.000
x		72.022%	6.165	24.490	24.800	0.000	2081.000	19480.000	19630.000
σ		2.756%	0.258	2.645	1.831	0.000	78.720	567.900	674.800
%RSD		3.827	4.180	10.800	7.385	0.000	3.783	2.916	3.438
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:41	58880.000	2903.000	0.000	5547.000	17520.000	17980.000	76.448%	1191.000
2	13:27:48	60440.000	3043.000	0.000	5521.000	17810.000	18020.000	75.833%	1225.000
3	13:27:56	59220.000	2977.000	0.000	5518.000	18240.000	18730.000	75.268%	1187.000
x		59510.000	2974.000	0.000	5529.000	17860.000	18250.000	75.850%	1201.000
σ		817.900	69.690	0.000	15.980	358.400	421.000	0.590%	20.710
%RSD		1.374	2.343	0.000	0.289	2.007	2.308	0.778	1.725
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:41	599.400	256.500	1215.000	151100.000	138000.000	102.900	290.300	402.300
2	13:27:48	593.000	257.900	1237.000	153900.000	137800.000	103.500	294.400	408.900
3	13:27:56	599.300	255.600	1227.000	153900.000	138700.000	105.900	286.000	408.800
x		597.200	256.600	1226.000	153000.000	138200.000	104.100	290.200	406.700
σ		3.693	1.175	10.940	1649.000	501.700	1.581	4.238	3.783
%RSD		0.618	0.458	0.892	1.078	0.363	1.519	1.460	0.930
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:41	411.700	1880.000	1876.000	51.140	5.940	9.014	0.000	137.100
2	13:27:48	400.900	1907.000	1910.000	51.420	4.427	9.306	0.000	137.300
3	13:27:56	409.700	1882.000	1899.000	51.680	5.271	4.509	0.000	137.300
x		407.400	1890.000	1895.000	51.410	5.213	7.610	0.000	137.300
σ		5.706	15.260	17.500	0.267	0.758	2.689	0.000	0.124
%RSD		1.401	0.808	0.924	0.520	14.540	35.340	0.000	0.090
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:41	0.000	16.150	13.280	71.996%	4.511	4.486	13.830	15.500
2	13:27:48	0.000	15.010	15.190	72.827%	4.530	4.542	13.010	15.180
3	13:27:56	0.000	14.380	15.000	74.316%	4.522	4.771	12.990	14.990
x		0.000	15.180	14.490	73.046%	4.521	4.600	13.280	15.220
σ		0.000	0.900	1.054	1.176%	0.010	0.151	0.481	0.258
%RSD		0.000	5.926	7.276	1.610	0.215	3.283	3.619	1.697
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:27:41	73.587%	80.380	7.373	6.683	861.000	856.300	90.745%	92.886%
2	13:27:48	75.983%	81.390	7.303	7.174	842.700	839.100	94.209%	95.866%
3	13:27:56	77.002%	81.870	7.516	6.998	849.600	836.900	95.518%	96.564%
x		75.524%	81.210	7.397	6.952	851.100	844.100	93.491%	95.105%
σ		1.753%	0.763	0.109	0.249	9.205	10.620	2.466%	1.954%
%RSD		2.321	0.939	1.471	3.581	1.082	1.258	2.638	2.054
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:27:41	1.627	1.598	625.700	581.700	604.300	72.342%		
2	13:27:48	1.569	1.558	631.500	586.400	608.600	74.099%		
3	13:27:56	1.532	1.586	630.600	589.000	608.300	76.025%		
x		1.576	1.581	629.300	585.700	607.100	74.155%		
σ		0.048	0.021	3.107	3.670	2.379	1.842%		
%RSD		3.027	1.319	0.494	0.627	0.392	2.485		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:32:43	95.516%	1.069	4.160	4.721	0.000	373.800	3387.000	3373.000
2	13:32:51	88.045%	1.197	4.795	4.905	0.000	402.000	3628.000	3645.000
3	13:32:58	79.054%	1.316	5.824	5.315	0.000	425.200	3906.000	3849.000
x		87.538%	1.194	4.926	4.980	0.000	400.300	3640.000	3622.000
σ		8.242%	0.124	0.840	0.304	0.000	25.700	260.000	238.600
%RSD		9.416	10.380	17.050	6.105	0.000	6.420	7.144	6.587

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:32:43	10570.000	521.800	0.000	1120.000	3525.000	3526.000	89.855%	233.400
2	13:32:51	11480.000	575.700	0.000	1159.000	3800.000	3695.000	86.307%	255.700
3	13:32:58	12040.000	578.500	0.000	1143.000	3558.000	3648.000	87.596%	244.900
x		11370.000	558.700	0.000	1141.000	3628.000	3623.000	87.920%	244.700
σ		742.700	31.940	0.000	19.580	150.400	87.150	1.796%	11.140
%RSD		6.535	5.718	0.000	1.717	4.146	2.405	2.043	4.551

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:32:43	110.000	48.070	243.500	28400.000	27360.000	19.110	56.920	81.610
2	13:32:51	114.700	50.060	261.100	29860.000	29080.000	21.280	57.990	85.590
3	13:32:58	113.900	49.270	253.900	29580.000	29510.000	20.470	59.920	85.980
x		112.900	49.130	252.800	29280.000	28650.000	20.290	58.280	84.390
σ		2.515	0.999	8.870	775.600	1140.000	1.095	1.519	2.415
%RSD		2.228	2.033	3.508	2.649	3.980	5.399	2.607	2.862

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:32:43	84.240	394.100	392.200	10.460	1.095	1.105	0.000	24.860
2	13:32:51	85.620	411.300	413.300	10.670	0.840	3.196	0.000	26.000
3	13:32:58	86.730	400.600	399.800	11.020	1.180	3.370	0.000	25.970
x		85.530	402.000	401.800	10.720	1.038	2.557	0.000	25.610
σ		1.247	8.681	10.690	0.279	0.177	1.261	0.000	0.651
%RSD		1.458	2.160	2.660	2.607	17.050	49.300	0.000	2.540

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:32:43	0.000	2.966	2.761	85.345%	0.663	0.751	2.675	2.916
2	13:32:51	0.000	2.798	2.915	85.098%	0.762	0.615	2.680	3.253
3	13:32:58	0.000	2.631	2.745	84.007%	0.700	0.679	2.555	3.144
x		0.000	2.798	2.807	84.817%	0.708	0.682	2.637	3.104
σ		0.000	0.168	0.094	0.712%	0.050	0.068	0.071	0.172
%RSD		0.000	5.992	3.341	0.839	7.039	9.929	2.696	5.549

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:32:43	85.110%	14.620	1.471	1.533	175.200	172.800	91.972%	91.921%
2	13:32:51	83.625%	15.470	1.331	1.303	178.600	174.900	92.135%	92.330%
3	13:32:58	84.564%	14.980	1.567	1.320	177.300	182.400	92.495%	93.740%
x		84.433%	15.020	1.457	1.385	177.100	176.700	92.201%	92.664%
σ		0.751%	0.429	0.119	0.128	1.706	5.048	0.268%	0.954%
%RSD		0.889	2.855	8.142	9.250	0.963	2.857	0.290	1.030

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:32:43	0.281	0.243	119.800	110.200	113.300	83.734%
2	13:32:51	0.240	0.252	118.800	110.400	113.400	84.010%
3	13:32:58	0.254	0.280	118.100	110.100	113.200	81.697%
x		0.258	0.259	118.900	110.200	113.300	83.147%
σ		0.021	0.019	0.833	0.159	0.112	1.263%
%RSD		8.102	7.455	0.701	0.144	0.099	1.519

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:37:50	64.594%	54.830	923.300	884.000	0.000	56690.000	74540.000	76400.000
2	13:37:57	67.581%	51.680	868.900	866.900	0.000	54830.000	75150.000	77930.000
3	13:38:05	65.952%	51.220	848.600	855.400	0.000	58030.000	77930.000	78370.000
x		66.042%	52.580	880.300	868.800	0.000	56520.000	75870.000	77570.000
σ		1.496%	1.961	38.610	14.410	0.000	1607.000	1807.000	1034.000
%RSD		2.265	3.730	4.387	1.658	0.000	2.843	2.382	1.333
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:37:50	134600.000	8097.000	0.000	58630.000	69330.000	70940.000	73.727%	3047.000
2	13:37:57	133500.000	8355.000	0.000	62840.000	71700.000	73000.000	71.278%	3126.000
3	13:38:05	140200.000	8356.000	0.000	59200.000	68060.000	71610.000	72.986%	3091.000
x		136100.000	8269.000	0.000	60230.000	69700.000	71850.000	72.664%	3088.000
σ		3625.000	149.200	0.000	2284.000	1845.000	1052.000	1.256%	39.570
%RSD		2.663	1.804	0.000	3.792	2.648	1.464	1.728	1.281
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:37:50	1953.000	518.200	1847.000	171500.000	159500.000	655.800	1021.000	780.600
2	13:37:57	1992.000	527.600	1882.000	173600.000	163900.000	658.800	1038.000	817.400
3	13:38:05	1998.000	525.600	1858.000	173400.000	161700.000	654.000	1046.000	806.800
x		1981.000	523.800	1862.000	172800.000	161700.000	656.200	1035.000	801.600
σ		24.280	4.922	18.100	1169.000	2241.000	2.390	12.890	18.940
%RSD		1.226	0.940	0.972	0.676	1.386	0.364	1.245	2.363
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:37:50	804.600	4403.000	4405.000	120.400	17.220	17.050	0.000	1492.000
2	13:37:57	824.200	4504.000	4445.000	120.800	17.880	20.630	0.000	1521.000
3	13:38:05	793.400	4443.000	4429.000	119.500	17.610	20.950	0.000	1515.000
x		807.400	4450.000	4426.000	120.200	17.570	19.540	0.000	1510.000
σ		15.600	50.810	20.480	0.664	0.335	2.166	0.000	15.160
%RSD		1.933	1.142	0.463	0.553	1.907	11.080	0.000	1.005
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:37:50	0.000	1192.000	1182.000	58.063%	75.510	75.590	103.000	149.300
2	13:37:57	0.000	1189.000	1179.000	59.020%	74.340	75.610	99.830	148.000
3	13:38:05	0.000	1202.000	1184.000	58.075%	75.000	75.900	102.800	149.000
x		0.000	1194.000	1181.000	58.386%	74.950	75.700	101.900	148.800
σ		0.000	6.654	2.280	0.549%	0.587	0.174	1.784	0.659
%RSD		0.000	0.557	0.193	0.940	0.784	0.229	1.751	0.443
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:37:50	60.936%	2387.000	367.300	366.600	3354.000	3327.000	77.664%	77.426%
2	13:37:57	61.494%	2393.000	375.400	370.100	3388.000	3348.000	78.311%	78.258%
3	13:38:05	62.027%	2372.000	369.900	366.500	3360.000	3344.000	78.264%	77.912%
x		61.486%	2384.000	370.800	367.700	3367.000	3339.000	78.079%	77.865%
σ		0.546%	10.950	4.140	2.057	17.760	10.880	0.361%	0.418%
%RSD		0.888	0.459	1.116	0.559	0.527	0.326	0.462	0.537
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:37:50	55.230	55.780	2096.000	1950.000	2055.000	46.918%		
2	13:37:57	57.070	56.850	2113.000	1990.000	2092.000	46.462%		
3	13:38:05	56.850	56.660	2146.000	1980.000	2104.000	46.104%		
x		56.380	56.430	2119.000	1974.000	2083.000	46.495%		
σ		1.002	0.573	25.600	20.820	25.400	0.408%		
%RSD		1.777	1.015	1.208	1.055	1.219	0.877		

180-43684-D-6-C MSD 5/8/2015 1:43:46 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:42:55	70.811%	46.610	792.800	804.700	0.000	49870.000	72510.000	71750.000
2	13:43:02	63.038%	51.180	846.300	804.600	0.000	54540.000	79410.000	78760.000
3	13:43:10	61.177%	50.950	824.800	815.300	0.000	57330.000	82070.000	81470.000
x		65.008%	49.580	821.300	808.200	0.000	53910.000	78000.000	77330.000
σ		5.110%	2.577	26.960	6.156	0.000	3768.000	4930.000	5016.000
%RSD		7.861	5.198	3.282	0.762	0.000	6.990	6.321	6.486

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:42:55	130900.000	5986.000	0.000	58420.000	86340.000	88030.000	72.858%	2854.000
2	13:43:02	148100.000	6688.000	0.000	58180.000	90340.000	89200.000	69.191%	2976.000
3	13:43:10	154100.000	7100.000	0.000	60930.000	92740.000	91280.000	66.640%	3003.000
x		144400.000	6591.000	0.000	59180.000	89810.000	89500.000	69.563%	2944.000
σ		12050.000	563.100	0.000	1525.000	3237.000	1648.000	3.125%	79.670
%RSD		8.349	8.543	0.000	2.578	3.604	1.841	4.493	2.706

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:42:55	1373.000	515.400	2115.000	231800.000	210600.000	613.900	887.600	768.700
2	13:43:02	1447.000	545.300	2156.000	244600.000	222900.000	649.200	939.300	796.300
3	13:43:10	1514.000	558.100	2215.000	254200.000	231600.000	666.400	980.900	820.100
x		1445.000	539.600	2162.000	243500.000	221700.000	643.200	935.900	795.000
σ		70.330	21.940	50.390	11250.000	10550.000	26.780	46.760	25.700
%RSD		4.869	4.067	2.331	4.620	4.759	4.164	4.996	3.232

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:42:55	788.100	3227.000	3198.000	106.900	14.830	18.760	0.000	1375.000
2	13:43:02	805.000	3355.000	3302.000	108.600	15.410	17.650	0.000	1419.000
3	13:43:10	825.600	3370.000	3357.000	109.400	16.130	14.340	0.000	1423.000
x		806.200	3317.000	3286.000	108.300	15.450	16.920	0.000	1406.000
σ		18.770	78.890	80.650	1.306	0.651	2.301	0.000	26.420
%RSD		2.328	2.378	2.455	1.206	4.209	13.600	0.000	1.879

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:42:55	0.000	1135.000	1132.000	59.523%	54.590	54.830	67.630	111.400
2	13:43:02	0.000	1169.000	1147.000	59.858%	54.970	54.710	68.870	111.400
3	13:43:10	0.000	1163.000	1152.000	60.261%	55.320	54.750	67.380	111.400
x		0.000	1156.000	1144.000	59.881%	54.960	54.760	67.960	111.400
σ		0.000	18.180	10.390	0.369%	0.365	0.060	0.796	0.047
%RSD		0.000	1.573	0.909	0.617	0.663	0.109	1.172	0.042

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:42:55	62.511%	2058.000	313.900	310.900	3541.000	3526.000	81.673%	82.114%
2	13:43:02	63.205%	2077.000	317.100	314.400	3547.000	3502.000	83.428%	84.389%
3	13:43:10	64.633%	2055.000	309.100	314.300	3557.000	3524.000	83.082%	85.667%
x		63.450%	2063.000	313.400	313.200	3549.000	3517.000	82.728%	84.057%
σ		1.082%	11.620	4.022	2.020	7.695	13.520	0.930%	1.799%
%RSD		1.705	0.563	1.284	0.645	0.217	0.385	1.124	2.140

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:42:55	52.810	53.020	894.500	831.500	860.700	55.368%
2	13:43:02	53.450	53.020	883.400	823.400	859.400	57.736%
3	13:43:10	53.780	53.610	902.100	837.300	869.000	58.566%
x		53.350	53.220	893.400	830.700	863.000	57.223%
σ		0.496	0.340	9.403	7.018	5.242	1.660%
%RSD		0.929	0.639	1.053	0.845	0.607	2.900

180-43684-D-6-A PDS 5/8/2015 1:48:54 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:48:01	68.265%	51.260	898.100	878.800	0.000	59030.000	74110.000	72440.000
2	13:48:08	66.233%	50.600	870.200	866.700	0.000	60630.000	75120.000	74350.000
3	13:48:16	63.982%	50.160	877.500	854.600	0.000	63030.000	76230.000	76590.000
x		66.160%	50.670	881.900	866.700	0.000	60900.000	75150.000	74460.000
σ		2.142%	0.556	14.450	12.120	0.000	2014.000	1061.000	2078.000
%RSD		3.238	1.097	1.638	1.399	0.000	3.307	1.412	2.791
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:48:01	54900.000	14110.000	0.000	60620.000	72090.000	70100.000	70.971%	2242.000
2	13:48:08	56340.000	14790.000	0.000	62660.000	71570.000	72770.000	68.305%	2370.000
3	13:48:16	59360.000	15480.000	0.000	61530.000	72830.000	74030.000	66.491%	2413.000
x		56870.000	14790.000	0.000	61610.000	72160.000	72300.000	68.589%	2342.000
σ		2276.000	685.900	0.000	1023.000	632.900	2006.000	2.254%	88.740
%RSD		4.003	4.636	0.000	1.661	0.877	2.774	3.286	3.790
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:48:01	1138.000	460.800	1704.000	142000.000	127800.000	670.500	816.000	641.800
2	13:48:08	1179.000	478.200	1783.000	146600.000	132000.000	685.600	833.900	664.400
3	13:48:16	1206.000	495.000	1805.000	151400.000	136900.000	693.800	842.500	671.900
x		1175.000	478.000	1764.000	146600.000	132200.000	683.300	830.800	659.400
σ		34.210	17.100	52.780	4709.000	4563.000	11.780	13.510	15.660
%RSD		2.913	3.577	2.992	3.211	3.451	1.724	1.626	2.375
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:48:01	641.700	2237.000	2242.000	92.210	16.320	12.870	0.000	1374.000
2	13:48:08	665.500	2289.000	2307.000	93.970	15.160	15.720	0.000	1387.000
3	13:48:16	672.200	2361.000	2352.000	96.340	14.590	13.450	0.000	1408.000
x		659.800	2296.000	2300.000	94.170	15.360	14.020	0.000	1390.000
σ		16.040	62.450	55.150	2.070	0.884	1.507	0.000	17.200
%RSD		2.431	2.720	2.397	2.198	5.754	10.750	0.000	1.238
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:48:01	0.000	1356.000	1346.000	63.625%	53.320	54.350	72.260	123.400
2	13:48:08	0.000	1376.000	1365.000	64.318%	54.070	54.070	71.360	123.800
3	13:48:16	0.000	1376.000	1375.000	64.130%	53.860	54.830	71.260	122.700
x		0.000	1369.000	1362.000	64.024%	53.750	54.410	71.630	123.300
σ		0.000	11.370	14.870	0.359%	0.386	0.385	0.551	0.574
%RSD		0.000	0.830	1.092	0.560	0.718	0.707	0.769	0.466
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:48:01	65.533%	2559.000	582.000	576.100	2964.000	2917.000	85.126%	86.533%
2	13:48:08	65.260%	2619.000	594.400	585.200	2995.000	2998.000	85.072%	86.744%
3	13:48:16	66.950%	2552.000	578.800	571.900	2917.000	2936.000	87.698%	88.075%
x		65.914%	2577.000	585.100	577.700	2958.000	2950.000	85.965%	87.117%
σ		0.907%	36.880	8.239	6.782	39.350	42.260	1.501%	0.836%
%RSD		1.377	1.431	1.408	1.174	1.330	1.432	1.746	0.960
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	13:48:01	57.760	57.840	644.500	605.400	627.600	66.807%		
2	13:48:08	58.320	59.540	652.200	609.100	628.100	67.855%		
3	13:48:16	58.610	58.430	644.600	603.600	626.300	68.618%		
x		58.230	58.610	647.100	606.000	627.300	67.760%		
σ		0.436	0.862	4.410	2.835	0.959	0.909%		
%RSD		0.748	1.471	0.682	0.468	0.153	1.342		

CCV 1558997 5/8/2015 1:53:59 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:53:07	85.675%	95.660	89.570	88.960	0.000	50670.000	49990.000	50130.000
2	13:53:14	79.076%	99.180	92.010	91.990	0.000	55600.000	53750.000	53100.000
3	13:53:22	84.656%	99.950	93.570	95.180	0.000	52620.000	50510.000	51510.000
x		83.136%	98.264%	91.719%	92.046%	0.000	105.924%	102.832%	103.158%
σ		3.552%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		4.273	2.329	2.202	3.376	0.000	4.685	3.962	2.879

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:53:07	470.900	5382.000	0.000	50610.000	47330.000	48340.000	80.792%	97.530
2	13:53:14	512.500	5963.000	0.000	49230.000	47860.000	48190.000	79.614%	101.000
3	13:53:22	501.200	5843.000	0.000	50250.000	49600.000	49150.000	81.047%	102.100
x		98.978%	114.592%	0.000	100.063%	96.533%	97.124%	80.484%	100.229%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.764%	n/a
%RSD		4.350	5.355	0.000	1.430	2.461	1.062	0.949	2.395

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:53:07	96.640	98.140	534.700	25390.000	24570.000	102.200	106.300	104.200
2	13:53:14	97.600	101.400	531.400	25440.000	24980.000	101.900	107.100	106.800
3	13:53:22	98.210	101.100	539.800	25280.000	24520.000	102.000	107.500	102.500
x		97.483%	100.214%	107.059%	101.484%	98.751%	102.009%	107.006%	104.508%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.815	1.801	0.794	0.316	1.027	0.146	0.559	2.087

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:53:07	105.100	106.400	106.700	104.100	106.500	96.480	0.000	97.290
2	13:53:14	106.900	106.800	107.200	108.700	108.600	107.400	0.000	99.230
3	13:53:22	103.200	104.800	107.000	103.500	104.100	102.600	0.000	96.500
x		105.079%	105.980%	106.982%	105.425%	106.388%	102.169%	0.000	97.675%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.776	1.008	0.201	2.687	2.133	5.349	0.000	1.438

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:53:07	79.734%	106.100	108.200	67.361%	103.800	107.100	104.300	107.600
2	13:53:14	80.230%	108.400	109.300	68.323%	104.400	105.000	106.200	107.700
3	13:53:22	82.790%	107.200	109.100	68.391%	104.200	103.600	102.900	105.600
x		80.918%	107.235%	108.879%	68.025%	104.137%	105.220%	104.442%	106.971%
σ		1.640%	n/a	n/a	0.576%	n/a	n/a	n/a	n/a
%RSD		2.026	1.053	0.549	0.847	0.288	1.649	1.593	1.121

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:53:07	71.562%	101.500	99.830	102.600	96.940	99.210	75.397%	74.919%
2	13:53:14	71.845%	101.600	101.600	101.900	96.140	101.000	76.283%	75.829%
3	13:53:22	73.557%	99.890	101.100	101.700	100.100	99.370	75.852%	76.538%
x		72.321%	100.998%	100.842%	102.048%	97.740%	99.863%	75.844%	75.762%
σ		1.080%	n/a	n/a	n/a	n/a	n/a	0.443%	0.811%
%RSD		1.493	0.949	0.893	0.489	2.166	0.993	0.584	1.071

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	13:53:07	107.500	106.200	107.300	108.900	106.400	54.694%
2	13:53:14	107.100	105.000	106.000	105.700	104.700	54.660%
3	13:53:22	104.100	103.600	105.000	105.600	104.700	54.183%
x		106.256%	104.928%	106.069%	106.728%	105.243%	54.512%
σ		n/a	n/a	n/a	n/a	n/a	0.286%
%RSD		1.727	1.279	1.090	1.799	0.952	0.524

CCB2 5/8/2015 2:02:56 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:03	100.003%	-0.025	1.095	0.889	0.000	-1.265	1.627	1.818
2	14:02:11	97.901%	-0.062	0.901	0.917	0.000	-1.070	1.812	1.337
3	14:02:18	95.103%	-0.022	1.049	0.797	0.000	-1.409	1.832	1.827
x		97.669%	-0.036	1.015	0.868	0.000	-1.248	1.757	1.660
σ		2.458%	0.022	0.101	0.063	0.000	0.170	0.113	0.280
%RSD		2.517	62.040	9.976	7.230	0.000	13.630	6.450	16.860
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:03	-0.169	-17.930	0.000	3.056	-5.511	3.115	92.223%	0.047
2	14:02:11	-0.139	-18.980	0.000	2.705	1.447	3.235	92.231%	0.026
3	14:02:18	0.059	-17.120	0.000	1.503	-8.546	3.045	93.212%	0.086
x		-0.083	-18.010	0.000	2.421	-4.203	3.132	92.555%	0.053
σ		0.124	0.934	0.000	0.815	5.124	0.096	0.569%	0.031
%RSD		148.800	5.183	0.000	33.650	121.900	3.064	0.614	57.910
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:03	-0.003	0.009	0.059	7.986	6.969	0.002	0.009	0.018
2	14:02:11	-0.042	0.007	0.035	7.072	3.536	0.002	0.009	-0.020
3	14:02:18	0.020	0.007	0.050	6.008	4.213	0.016	0.017	-0.011
x		-0.008	0.008	0.048	7.022	4.906	0.007	0.012	-0.004
σ		0.031	0.001	0.012	0.990	1.818	0.008	0.005	0.020
%RSD		374.100	11.150	25.720	14.100	37.060	126.800	38.390	467.800
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:03	-0.039	0.183	-0.170	-0.023	0.123	1.503	0.000	0.005
2	14:02:11	-0.007	0.098	0.213	-0.023	0.064	0.115	0.000	0.020
3	14:02:18	-0.089	0.125	0.110	-0.069	-0.024	0.659	0.000	0.008
x		-0.045	0.135	0.051	-0.038	0.054	0.759	0.000	0.011
σ		0.041	0.043	0.198	0.027	0.074	0.699	0.000	0.008
%RSD		91.430	32.070	387.000	70.670	136.000	92.120	0.000	68.560
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:03	89.224%	0.278	0.522	84.128%	-0.248	-0.316	-0.004	0.013
2	14:02:11	89.319%	0.438	0.409	86.492%	-0.234	-0.304	-0.004	0.006
3	14:02:18	91.532%	0.235	0.347	86.722%	-0.252	-0.334	-0.004	-0.000
x		90.025%	0.317	0.426	85.781%	-0.245	-0.318	-0.004	0.006
σ		1.306%	0.107	0.089	1.436%	0.009	0.015	0.000	0.007
%RSD		1.451	33.850	20.850	1.674	3.781	4.676	0.375	108.800
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:03	83.974%	-0.824	-0.030	-0.004	0.015	-0.019	86.906%	87.340%
2	14:02:11	86.600%	-0.715	0.016	-0.066	0.015	-0.019	88.089%	87.710%
3	14:02:18	87.007%	-0.898	-0.028	-0.184	0.014	0.003	88.917%	89.472%
x		85.860%	-0.812	-0.014	-0.085	0.015	-0.012	87.970%	88.174%
σ		1.646%	0.092	0.026	0.091	0.001	0.013	1.011%	1.139%
%RSD		1.917	11.320	183.900	107.500	3.745	106.900	1.149	1.292
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:02:03	0.027	0.022	0.014	-0.027	0.002	85.700%		
2	14:02:11	0.032	0.031	-0.006	-0.018	0.002	88.765%		
3	14:02:18	0.024	0.023	0.028	-0.021	0.005	89.547%		
x		0.028	0.025	0.012	-0.022	0.003	88.004%		
σ		0.004	0.005	0.017	0.005	0.002	2.034%		
%RSD		14.470	19.100	144.300	22.290	71.550	2.311		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:07:13	70.780%	6.561	19.260	19.770	0.000	975.500	29190.000	29290.000
2	14:07:20	71.338%	6.879	18.990	18.780	0.000	982.400	29290.000	30160.000
3	14:07:28	69.473%	6.823	19.410	18.640	0.000	1014.000	30140.000	31050.000
x		70.530%	6.754	19.220	19.060	0.000	990.600	29540.000	30170.000
σ		0.958%	0.170	0.213	0.615	0.000	20.430	520.200	879.800
%RSD		1.358	2.515	1.108	3.228	0.000	2.062	1.761	2.916
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:07:13	107200.000	2020.000	0.000	11140.000	40410.000	40140.000	78.365%	3775.000
2	14:07:20	108800.000	2102.000	0.000	11130.000	40240.000	40570.000	76.434%	3959.000
3	14:07:28	112900.000	2141.000	0.000	11380.000	42090.000	41910.000	75.342%	4018.000
x		109600.000	2088.000	0.000	11220.000	40910.000	40870.000	76.714%	3917.000
σ		2909.000	61.710	0.000	144.000	1025.000	922.300	1.531%	126.900
%RSD		2.654	2.956	0.000	1.283	2.504	2.257	1.995	3.238
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:07:13	300.400	246.000	5809.000	223500.000	205200.000	157.600	231.800	315.500
2	14:07:20	308.300	255.900	5990.000	228700.000	205300.000	155.800	238.400	316.900
3	14:07:28	313.800	258.500	6100.000	229700.000	209800.000	160.300	240.200	323.100
x		307.500	253.500	5966.000	227300.000	206800.000	157.900	236.800	318.500
σ		6.766	6.627	146.800	3370.000	2589.000	2.260	4.410	4.015
%RSD		2.200	2.615	2.460	1.482	1.252	1.432	1.862	1.261
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:07:13	320.800	1046.000	1042.000	36.090	6.448	7.502	0.000	184.600
2	14:07:20	320.200	1058.000	1052.000	36.700	4.646	9.238	0.000	186.600
3	14:07:28	326.500	1058.000	1063.000	37.640	4.611	4.653	0.000	187.100
x		322.500	1054.000	1052.000	36.810	5.235	7.131	0.000	186.100
σ		3.460	6.891	10.400	0.781	1.050	2.315	0.000	1.289
%RSD		1.073	0.654	0.988	2.122	20.060	32.460	0.000	0.693
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:07:13	0.000	11.120	10.340	71.268%	1.977	1.752	3.181	3.944
2	14:07:20	0.000	10.430	10.370	72.262%	1.843	1.860	3.382	4.134
3	14:07:28	0.000	10.480	10.020	72.047%	1.905	1.898	3.104	4.074
x		0.000	10.680	10.240	71.859%	1.909	1.836	3.223	4.051
σ		0.000	0.385	0.194	0.523%	0.067	0.075	0.143	0.097
%RSD		0.000	3.609	1.894	0.728	3.500	4.105	4.446	2.402
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:07:13	74.229%	47.240	1.694	1.595	906.000	894.700	94.422%	96.486%
2	14:07:20	75.989%	47.410	1.541	1.690	893.900	895.300	93.525%	96.906%
3	14:07:28	75.988%	46.130	1.465	1.646	908.100	902.800	93.852%	96.099%
x		75.402%	46.930	1.567	1.644	902.700	897.600	93.933%	96.497%
σ		1.016%	0.697	0.117	0.048	7.683	4.523	0.454%	0.404%
%RSD		1.348	1.486	7.452	2.904	0.851	0.504	0.483	0.418
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:07:13	1.608	1.559	299.200	278.200	287.600	75.898%		
2	14:07:20	1.628	1.678	303.600	279.400	292.400	75.520%		
3	14:07:28	1.464	1.569	299.400	278.400	287.400	75.269%		
x		1.567	1.602	300.800	278.700	289.100	75.562%		
σ		0.089	0.066	2.501	0.636	2.820	0.317%		
%RSD		5.694	4.104	0.832	0.228	0.975	0.419		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:12:17	67.478%	4.802	19.360	18.160	0.000	2315.000	17970.000	19040.000
2	14:12:25	59.993%	5.072	19.510	18.790	0.000	2489.000	19440.000	20960.000
3	14:12:32	56.455%	5.565	21.370	20.620	0.000	2623.000	20310.000	21770.000
x		61.309%	5.146	20.080	19.190	0.000	2476.000	19240.000	20590.000
σ		5.628%	0.387	1.123	1.278	0.000	154.600	1182.000	1403.000
%RSD		9.180	7.521	5.593	6.658	0.000	6.243	6.147	6.815
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:12:17	76770.000	2740.000	0.000	8783.000	224600.000	230600.000	68.482%	2607.000
2	14:12:25	86270.000	3302.000	0.000	8958.000	230100.000	235500.000	64.852%	2702.000
3	14:12:32	88500.000	3280.000	0.000	9083.000	231700.000	234600.000	64.403%	2772.000
x		83840.000	3107.000	0.000	8941.000	228800.000	233500.000	65.912%	2694.000
σ		6231.000	318.400	0.000	151.000	3714.000	2631.000	2.237%	83.070
%RSD		7.431	10.250	0.000	1.688	1.623	1.126	3.394	3.084
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:12:17	217.100	175.600	2612.000	148900.000	136000.000	128.400	170.000	238.000
2	14:12:25	223.700	184.600	2769.000	157200.000	143900.000	133.700	179.100	245.600
3	14:12:32	227.300	187.000	2793.000	157100.000	144800.000	133.600	176.000	248.000
x		222.700	182.400	2724.000	154400.000	141600.000	131.900	175.000	243.800
σ		5.176	6.044	98.100	4768.000	4809.000	2.999	4.658	5.220
%RSD		2.324	3.314	3.601	3.088	3.397	2.274	2.662	2.141
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:12:17	238.800	672.300	685.700	36.340	4.098	9.354	0.000	398.600
2	14:12:25	246.600	700.200	710.000	37.450	4.176	0.053	0.000	395.900
3	14:12:32	251.500	701.600	689.500	38.530	4.284	7.374	0.000	406.500
x		245.600	691.400	695.100	37.440	4.186	5.594	0.000	400.400
σ		6.445	16.500	13.040	1.097	0.094	4.900	0.000	5.523
%RSD		2.624	2.386	1.877	2.929	2.239	87.590	0.000	1.380
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:12:17	0.000	7.776	7.028	55.297%	0.793	0.725	1.787	2.913
2	14:12:25	0.000	7.135	7.425	54.560%	0.867	0.779	2.130	3.058
3	14:12:32	0.000	7.503	6.658	54.418%	0.958	0.737	2.569	3.131
x		0.000	7.471	7.037	54.759%	0.873	0.747	2.162	3.034
σ		0.000	0.322	0.384	0.472%	0.082	0.028	0.392	0.111
%RSD		0.000	4.304	5.454	0.862	9.419	3.780	18.150	3.660
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:12:17	59.271%	42.040	1.502	1.055	692.100	674.000	74.059%	73.688%
2	14:12:25	57.755%	43.510	1.171	1.255	683.900	689.800	73.873%	74.255%
3	14:12:32	58.472%	42.630	1.443	1.319	702.200	679.200	73.468%	74.142%
x		58.499%	42.730	1.372	1.210	692.800	681.000	73.800%	74.028%
σ		0.758%	0.739	0.177	0.137	9.147	8.024	0.302%	0.300%
%RSD		1.296	1.730	12.860	11.350	1.320	1.178	0.409	0.406
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:12:17	1.470	1.449	179.300	165.400	173.000	46.147%		
2	14:12:25	1.362	1.364	180.200	167.700	173.300	46.873%		
3	14:12:32	1.281	1.353	175.100	163.000	170.300	46.338%		
x		1.371	1.389	178.200	165.400	172.200	46.453%		
σ		0.095	0.052	2.702	2.332	1.681	0.376%		
%RSD		6.933	3.777	1.516	1.410	0.976	0.810		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:32:40	105.393%	-0.009	0.365	0.345	0.000	-1.329	1.606	1.482
2	14:32:48	103.708%	-0.026	0.263	0.199	0.000	-1.406	2.189	1.772
3	14:32:55	107.191%	-0.027	0.246	0.187	0.000	-1.093	2.458	1.865
x		105.431%	-0.021	0.292	0.244	0.000	-1.276	2.084	1.706
σ		1.742%	0.010	0.065	0.088	0.000	0.163	0.436	0.200
%RSD		1.652	48.440	22.180	36.000	0.000	12.770	20.890	11.700
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:32:40	1.705	-13.910	0.000	8.989	26.310	26.150	96.809%	1.271
2	14:32:48	2.221	-14.080	0.000	5.018	23.140	20.550	95.195%	1.113
3	14:32:55	2.306	-14.330	0.000	3.743	5.807	17.250	95.158%	1.477
x		2.077	-14.110	0.000	5.917	18.420	21.320	95.721%	1.287
σ		0.325	0.209	0.000	2.736	11.040	4.496	0.943%	0.183
%RSD		15.660	1.480	0.000	46.250	59.930	21.090	0.985	14.210
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:32:40	0.043	0.004	0.254	2.688	-1.250	0.007	0.032	0.027
2	14:32:48	0.024	0.021	0.221	2.567	2.650	0.018	0.015	0.020
3	14:32:55	0.011	0.001	0.129	2.538	4.992	0.016	0.006	0.039
x		0.026	0.009	0.202	2.597	2.131	0.013	0.018	0.029
σ		0.016	0.011	0.065	0.080	3.153	0.006	0.013	0.009
%RSD		61.340	120.700	32.130	3.064	148.000	43.020	73.520	33.140
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:32:40	0.019	0.967	0.687	-0.092	-0.024	0.132	0.000	0.051
2	14:32:48	-0.036	1.075	1.085	-0.076	0.003	0.008	0.000	0.043
3	14:32:55	0.019	1.094	0.767	-0.087	0.031	0.006	0.000	0.039
x		0.001	1.045	0.846	-0.085	0.003	0.048	0.000	0.044
σ		0.032	0.068	0.211	0.008	0.028	0.072	0.000	0.006
%RSD		4936.000	6.533	24.890	9.520	829.700	149.600	0.000	13.500
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:32:40	91.556%	1.950	2.374	85.096%	-0.260	-0.298	-0.004	0.069
2	14:32:48	94.137%	1.334	1.384	86.900%	-0.286	-0.345	-0.004	0.084
3	14:32:55	93.838%	1.011	1.008	84.252%	-0.250	-0.316	0.010	0.005
x		93.177%	1.432	1.589	85.416%	-0.265	-0.320	0.000	0.053
σ		1.412%	0.477	0.706	1.352%	0.018	0.024	0.008	0.042
%RSD		1.515	33.330	44.410	1.583	6.923	7.464	2578.000	79.070
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:32:40	82.899%	1.742	0.392	0.139	0.016	0.027	83.916%	84.474%
2	14:32:48	86.019%	1.458	0.205	0.204	0.051	0.026	85.779%	87.420%
3	14:32:55	87.992%	0.845	0.240	0.102	0.049	0.069	87.189%	86.872%
x		85.637%	1.349	0.279	0.148	0.039	0.041	85.628%	86.255%
σ		2.568%	0.459	0.099	0.052	0.020	0.025	1.641%	1.567%
%RSD		2.999	34.000	35.640	35.090	50.400	60.480	1.917	1.817
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:32:40	0.122	0.091	-0.004	0.001	0.011	66.271%		
2	14:32:48	0.080	0.062	0.039	0.004	0.026	68.917%		
3	14:32:55	0.041	0.043	0.001	0.002	0.015	73.083%		
x		0.081	0.065	0.012	0.002	0.017	69.423%		
σ		0.041	0.024	0.023	0.001	0.008	3.434%		
%RSD		50.190	36.710	196.200	71.460	45.800	4.947		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:46	92.924%	52.300	942.300	941.200	0.000	50500.000	47890.000	47620.000
2	14:37:54	89.487%	51.130	905.600	942.500	0.000	50060.000	48250.000	49330.000
3	14:38:01	88.976%	50.480	863.900	881.800	0.000	51470.000	49370.000	49630.000
x		90.462%	51.300	903.900	921.900	0.000	50680.000	48510.000	48860.000
σ		2.147%	0.920	39.200	34.690	0.000	718.800	770.800	1083.000
%RSD		2.374	1.793	4.337	3.763	0.000	1.418	1.589	2.216
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:46	1997.000	10920.000	0.000	51870.000	49030.000	49510.000	85.703%	1046.000
2	14:37:54	2060.000	11370.000	0.000	51080.000	50330.000	49990.000	85.930%	1048.000
3	14:38:01	2091.000	11320.000	0.000	51610.000	48930.000	48690.000	85.727%	1070.000
x		2049.000	11200.000	0.000	51520.000	49430.000	49400.000	85.787%	1055.000
σ		47.780	249.500	0.000	401.500	782.400	657.100	0.125%	13.300
%RSD		2.332	2.228	0.000	0.779	1.583	1.330	0.145	1.261
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:46	525.700	206.700	539.600	1095.000	1193.000	515.000	522.900	262.600
2	14:37:54	525.500	205.100	552.100	1080.000	1195.000	530.500	533.100	262.500
3	14:38:01	525.700	205.700	547.600	1106.000	1190.000	534.000	531.400	268.500
x		525.700	205.800	546.400	1094.000	1193.000	526.500	529.100	264.500
σ		0.100	0.824	6.334	13.210	2.847	10.110	5.451	3.461
%RSD		0.019	0.400	1.159	1.208	0.239	1.920	1.030	1.308
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:46	266.800	530.000	520.300	41.850	11.070	10.830	0.000	1000.000
2	14:37:54	267.300	528.000	525.000	42.920	11.170	10.530	0.000	1022.000
3	14:38:01	269.400	529.400	524.900	41.820	11.910	11.280	0.000	1037.000
x		267.800	529.100	523.400	42.200	11.380	10.880	0.000	1020.000
σ		1.388	1.013	2.694	0.629	0.457	0.378	0.000	18.680
%RSD		0.518	0.191	0.515	1.489	4.013	3.472	0.000	1.832
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:46	87.704%	1092.000	1113.000	77.098%	49.220	49.210	53.440	97.470
2	14:37:54	86.192%	1110.000	1122.000	77.787%	49.520	50.090	55.400	99.890
3	14:38:01	86.873%	1116.000	1132.000	78.326%	48.490	49.320	54.200	96.820
x		86.923%	1106.000	1122.000	77.737%	49.080	49.540	54.350	98.060
σ		0.757%	12.880	9.691	0.615%	0.533	0.480	0.992	1.615
%RSD		0.871	1.165	0.864	0.792	1.086	0.968	1.825	1.647
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:46	78.913%	2184.000	526.700	523.500	2043.000	2060.000	83.867%	84.392%
2	14:37:54	79.891%	2154.000	525.700	525.300	2047.000	2067.000	85.533%	85.260%
3	14:38:01	81.789%	2148.000	525.800	517.100	2005.000	2036.000	85.439%	85.603%
x		80.198%	2162.000	526.100	521.900	2032.000	2054.000	84.947%	85.085%
σ		1.462%	19.410	0.546	4.278	22.960	16.650	0.936%	0.624%
%RSD		1.823	0.898	0.104	0.820	1.130	0.810	1.102	0.734
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:37:46	51.010	50.580	20.480	20.470	20.370	71.595%		
2	14:37:54	50.360	50.100	19.950	20.320	20.050	72.971%		
3	14:38:01	51.000	51.030	21.170	21.200	20.760	73.182%		
x		50.790	50.570	20.530	20.660	20.390	72.583%		
σ		0.373	0.465	0.613	0.470	0.358	0.862%		
%RSD		0.735	0.920	2.986	2.276	1.756	1.187		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:42:51	88.965%	49.090	948.000	954.100	0.000	48920.000	47890.000	48310.000
2	14:42:59	87.911%	52.310	934.500	950.300	0.000	52020.000	50560.000	49360.000
3	14:43:06	88.204%	49.010	909.200	949.100	0.000	52370.000	50400.000	49340.000
x		88.360%	50.130	930.600	951.100	0.000	51100.000	49620.000	49000.000
σ		0.544%	1.881	19.700	2.603	0.000	1899.000	1500.000	599.300
%RSD		0.616	3.752	2.117	0.274	0.000	3.716	3.022	1.223

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:42:51	1995.000	10560.000	0.000	51830.000	48940.000	48010.000	90.576%	1017.000
2	14:42:59	2037.000	11180.000	0.000	52230.000	49420.000	50200.000	87.026%	1041.000
3	14:43:06	2067.000	11350.000	0.000	53970.000	52820.000	50830.000	85.316%	1045.000
x		2033.000	11030.000	0.000	52680.000	50390.000	49680.000	87.640%	1034.000
σ		35.710	415.700	0.000	1141.000	2118.000	1476.000	2.683%	15.240
%RSD		1.756	3.770	0.000	2.166	4.203	2.970	3.062	1.473

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:42:51	505.300	198.100	520.800	1046.000	1139.000	514.300	514.900	257.900
2	14:42:59	515.300	202.500	548.000	1109.000	1204.000	524.600	514.500	265.000
3	14:43:06	530.800	206.000	558.400	1096.000	1183.000	537.200	524.600	261.000
x		517.200	202.200	542.400	1083.000	1175.000	525.400	518.000	261.300
σ		12.860	3.976	19.420	33.270	33.510	11.450	5.699	3.583
%RSD		2.487	1.966	3.580	3.071	2.851	2.179	1.100	1.371

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:42:51	255.500	515.800	514.700	40.480	9.580	13.900	0.000	1033.000
2	14:42:59	266.600	524.400	528.400	41.970	9.608	9.829	0.000	1045.000
3	14:43:06	265.200	533.300	526.100	41.990	10.910	10.310	0.000	1026.000
x		262.500	524.500	523.100	41.480	10.030	11.350	0.000	1035.000
σ		6.082	8.726	7.308	0.870	0.761	2.228	0.000	9.330
%RSD		2.317	1.664	1.397	2.097	7.582	19.640	0.000	0.902

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:42:51	87.255%	1104.000	1133.000	77.594%	50.520	51.090	53.100	97.550
2	14:42:59	86.617%	1127.000	1134.000	76.835%	50.120	50.560	53.830	97.640
3	14:43:06	87.877%	1130.000	1142.000	76.920%	50.300	49.440	54.360	98.560
x		87.250%	1120.000	1137.000	77.116%	50.310	50.370	53.770	97.920
σ		0.630%	14.340	4.885	0.416%	0.201	0.845	0.635	0.560
%RSD		0.722	1.280	0.430	0.539	0.400	1.677	1.180	0.572

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:42:51	81.128%	2175.000	529.400	519.100	2027.000	2075.000	84.942%	85.106%
2	14:42:59	81.642%	2141.000	525.100	522.400	2059.000	2078.000	85.140%	86.374%
3	14:43:06	81.192%	2165.000	522.700	523.300	2045.000	2057.000	85.477%	85.774%
x		81.321%	2160.000	525.800	521.600	2044.000	2070.000	85.186%	85.751%
σ		0.280%	17.720	3.406	2.211	15.860	11.620	0.271%	0.634%
%RSD		0.344	0.820	0.648	0.424	0.776	0.562	0.318	0.739

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:42:51	50.650	49.990	20.740	20.770	20.200	76.088%
2	14:42:59	50.460	50.060	20.610	20.670	20.160	73.455%
3	14:43:06	51.260	51.550	20.490	20.780	20.500	70.888%
x		50.790	50.530	20.610	20.740	20.290	73.477%
σ		0.416	0.881	0.123	0.061	0.184	2.600%
%RSD		0.818	1.743	0.599	0.293	0.907	3.538

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:57	95.087%	-0.031	25.060	25.100	0.000	15200.000	8965.000	8796.000
2	14:48:05	90.204%	-0.014	26.270	25.160	0.000	15540.000	9301.000	9385.000
3	14:48:12	88.563%	0.002	24.350	25.590	0.000	16190.000	9600.000	9450.000
x		91.285%	-0.014	25.230	25.280	0.000	15640.000	9289.000	9210.000
σ		3.393%	0.017	0.974	0.269	0.000	501.700	317.400	360.200
%RSD		3.717	117.600	3.861	1.062	0.000	3.207	3.417	3.911

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:57	272.800	867.800	0.000	2067.000	34060.000	34790.000	89.422%	1.452
2	14:48:05	288.500	945.100	0.000	2055.000	34470.000	35430.000	86.485%	1.395
3	14:48:12	279.900	931.400	0.000	2079.000	34360.000	35340.000	86.840%	1.167
x		280.400	914.800	0.000	2067.000	34300.000	35190.000	87.582%	1.338
σ		7.875	41.260	0.000	11.980	215.400	344.800	1.603%	0.151
%RSD		2.809	4.511	0.000	0.580	0.628	0.980	1.830	11.280

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:57	0.668	0.364	1.428	10.450	166.000	0.116	0.885	1.151
2	14:48:05	0.633	0.379	1.459	10.690	165.700	0.113	1.081	1.310
3	14:48:12	0.617	0.354	1.441	11.480	171.700	0.095	0.899	1.366
x		0.640	0.365	1.443	10.870	167.800	0.108	0.955	1.276
σ		0.026	0.013	0.016	0.542	3.385	0.012	0.110	0.112
%RSD		4.118	3.471	1.088	4.982	2.017	10.880	11.480	8.738

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:57	1.176	1.735	2.006	0.254	0.320	2.485	0.000	221.900
2	14:48:05	1.201	1.825	1.960	0.302	0.230	2.498	0.000	223.600
3	14:48:12	1.334	1.661	2.012	0.260	0.195	2.109	0.000	221.200
x		1.237	1.740	1.993	0.272	0.248	2.364	0.000	222.200
σ		0.085	0.082	0.028	0.026	0.065	0.221	0.000	1.219
%RSD		6.875	4.730	1.424	9.471	26.030	9.330	0.000	0.549

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:57	83.414%	8.019	8.082	74.615%	-0.324	-0.383	0.061	0.166
2	14:48:05	83.207%	7.658	7.326	75.175%	-0.321	-0.373	-0.004	0.204
3	14:48:12	84.588%	6.036	5.723	74.609%	-0.311	-0.373	0.075	0.140
x		83.736%	7.238	7.044	74.800%	-0.319	-0.376	0.044	0.170
σ		0.745%	1.056	1.205	0.325%	0.007	0.006	0.042	0.032
%RSD		0.890	14.590	17.100	0.434	2.075	1.480	96.600	18.920

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:57	76.109%	6.691	2.899	2.353	18.900	20.030	77.790%	77.330%
2	14:48:05	76.807%	6.501	2.216	2.328	20.530	19.960	78.608%	78.779%
3	14:48:12	78.636%	5.086	2.126	2.104	18.680	18.670	77.411%	77.882%
x		77.184%	6.093	2.414	2.261	19.370	19.550	77.936%	77.997%
σ		1.305%	0.877	0.423	0.137	1.010	0.768	0.612%	0.732%
%RSD		1.690	14.390	17.520	6.065	5.213	3.925	0.785	0.938

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:57	0.171	0.161	0.024	0.012	0.035	55.853%
2	14:48:05	0.112	0.164	0.067	0.028	0.046	56.186%
3	14:48:12	0.099	0.109	0.064	0.008	0.026	55.468%
x		0.127	0.144	0.052	0.016	0.035	55.836%
σ		0.039	0.031	0.024	0.010	0.010	0.359%
%RSD		30.480	21.420	46.640	65.940	29.010	0.643

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:53:05	96.623%	-0.026	5.831	5.839	0.000	4372.000	4328.000	4400.000
2	14:53:13	89.528%	-0.032	6.665	6.030	0.000	4545.000	4460.000	4458.000
3	14:53:20	85.567%	0.012	6.445	6.469	0.000	4668.000	4761.000	4719.000
x		90.572%	-0.015	6.313	6.113	0.000	4529.000	4516.000	4526.000
σ		5.602%	0.024	0.432	0.323	0.000	148.500	222.000	169.900
%RSD		6.185	154.400	6.844	5.285	0.000	3.278	4.916	3.754
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:53:05	488.600	1994.000	0.000	1430.000	23930.000	23990.000	88.379%	0.643
2	14:53:13	492.000	2012.000	0.000	1465.000	24580.000	25830.000	85.088%	0.922
3	14:53:20	528.400	2144.000	0.000	1452.000	24760.000	25990.000	84.594%	0.678
x		503.000	2050.000	0.000	1449.000	24420.000	25270.000	86.020%	0.748
σ		22.090	81.840	0.000	17.980	441.500	1108.000	2.058%	0.152
%RSD		4.393	3.992	0.000	1.241	1.808	4.384	2.392	20.340
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:53:05	0.940	0.049	15.600	-0.170	113.200	0.198	1.221	2.400
2	14:53:13	0.900	0.067	16.360	-0.661	112.800	0.236	1.078	2.252
3	14:53:20	0.906	0.047	16.750	-0.380	104.300	0.215	1.074	2.214
x		0.915	0.054	16.240	-0.404	110.100	0.216	1.124	2.289
σ		0.021	0.011	0.583	0.246	5.021	0.019	0.084	0.098
%RSD		2.347	20.340	3.590	60.990	4.561	8.752	7.461	4.297
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:53:05	2.223	0.568	1.139	10.010	0.480	3.177	0.000	63.850
2	14:53:13	2.771	0.630	0.269	9.915	0.601	1.703	0.000	64.000
3	14:53:20	2.397	0.912	0.772	10.210	0.254	2.284	0.000	63.400
x		2.464	0.703	0.727	10.040	0.445	2.388	0.000	63.750
σ		0.280	0.183	0.437	0.149	0.176	0.742	0.000	0.313
%RSD		11.370	26.050	60.100	1.486	39.600	31.090	0.000	0.491
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:53:05	82.713%	2.682	2.415	76.191%	-0.308	-0.387	0.012	0.090
2	14:53:13	84.423%	2.368	2.287	76.127%	-0.344	-0.374	-0.005	0.015
3	14:53:20	86.336%	2.627	2.226	77.498%	-0.306	-0.381	0.011	0.008
x		84.491%	2.559	2.310	76.605%	-0.320	-0.380	0.006	0.038
σ		1.812%	0.168	0.096	0.774%	0.021	0.006	0.009	0.045
%RSD		2.145	6.565	4.169	1.010	6.612	1.699	151.700	119.700
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:53:05	77.110%	1.208	1.423	1.389	29.910	29.290	78.762%	79.219%
2	14:53:13	78.612%	1.005	1.180	1.113	28.450	28.320	81.277%	80.579%
3	14:53:20	80.450%	1.072	0.966	0.874	28.820	31.170	82.372%	82.422%
x		78.724%	1.095	1.190	1.125	29.060	29.590	80.804%	80.740%
σ		1.673%	0.103	0.229	0.258	0.758	1.447	1.851%	1.608%
%RSD		2.125	9.412	19.260	22.910	2.609	4.889	2.290	1.991
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:53:05	0.010	0.008	0.073	0.027	0.064	61.553%		
2	14:53:13	0.011	0.007	0.081	0.033	0.066	64.584%		
3	14:53:20	0.010	0.004	0.069	0.052	0.080	67.018%		
x		0.010	0.006	0.075	0.038	0.070	64.385%		
σ		0.001	0.002	0.006	0.013	0.009	2.738%		
%RSD		8.144	32.850	8.238	35.270	12.260	4.252		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:58:13	87.387%	-0.062	12.090	11.880	0.000	4472.000	4113.000	4099.000
2	14:58:20	88.634%	-0.027	11.640	11.880	0.000	4577.000	4048.000	4053.000
3	14:58:28	86.734%	-0.020	11.690	11.000	0.000	4520.000	4080.000	4112.000
x		87.585%	-0.036	11.810	11.580	0.000	4523.000	4080.000	4088.000
σ		0.965%	0.023	0.246	0.508	0.000	52.660	32.630	31.240
%RSD		1.102	62.960	2.082	4.384	0.000	1.164	0.800	0.764
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:58:13	1212.000	2124.000	0.000	1401.000	22280.000	22960.000	86.441%	0.816
2	14:58:20	1233.000	2268.000	0.000	1419.000	22670.000	22420.000	86.302%	0.617
3	14:58:28	1243.000	2211.000	0.000	1448.000	23060.000	23830.000	84.943%	1.105
x		1229.000	2201.000	0.000	1423.000	22670.000	23070.000	85.895%	0.846
σ		16.040	72.590	0.000	23.640	392.700	713.100	0.827%	0.245
%RSD		1.305	3.298	0.000	1.662	1.732	3.091	0.963	29.000
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:58:13	2.517	0.053	8.639	-1.975	99.100	0.094	0.508	1.836
2	14:58:20	2.642	0.061	8.447	-1.621	92.980	0.111	0.643	1.963
3	14:58:28	2.677	0.066	8.596	-1.628	100.500	0.099	0.523	2.064
x		2.612	0.060	8.561	-1.741	97.530	0.101	0.558	1.954
σ		0.084	0.007	0.101	0.203	3.996	0.009	0.074	0.114
%RSD		3.234	11.680	1.177	11.630	4.097	9.101	13.290	5.855
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:58:13	1.948	1.172	1.259	19.520	0.700	2.695	0.000	54.660
2	14:58:20	2.125	1.052	0.674	20.390	0.703	2.573	0.000	55.230
3	14:58:28	1.997	0.861	0.783	20.090	0.279	1.258	0.000	56.640
x		2.023	1.028	0.905	20.000	0.560	2.175	0.000	55.510
σ		0.091	0.157	0.311	0.441	0.244	0.797	0.000	1.022
%RSD		4.517	15.230	34.370	2.205	43.570	36.620	0.000	1.842
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:58:13	87.915%	3.418	3.664	82.083%	-0.342	-0.385	0.025	0.007
2	14:58:20	87.433%	3.406	3.561	82.714%	-0.327	-0.392	0.010	0.031
3	14:58:28	88.387%	3.333	3.375	83.729%	-0.334	-0.389	-0.004	-0.006
x		87.912%	3.386	3.533	82.842%	-0.334	-0.389	0.010	0.010
σ		0.477%	0.046	0.146	0.830%	0.007	0.003	0.015	0.019
%RSD		0.543	1.355	4.145	1.002	2.206	0.801	144.000	179.300
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:58:13	84.330%	-0.293	1.102	0.618	15.350	15.160	87.719%	87.957%
2	14:58:20	84.733%	-0.045	0.819	0.780	14.410	15.140	88.402%	88.447%
3	14:58:28	86.002%	-0.310	0.862	0.704	14.080	15.140	88.864%	88.482%
x		85.022%	-0.216	0.927	0.701	14.610	15.150	88.328%	88.295%
σ		0.872%	0.148	0.153	0.081	0.660	0.015	0.576%	0.293%
%RSD		1.026	68.670	16.480	11.590	4.518	0.102	0.652	0.332
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	14:58:13	-0.020	-0.013	0.013	-0.005	0.024	80.099%		
2	14:58:20	-0.025	-0.009	0.002	0.020	0.018	81.190%		
3	14:58:28	-0.023	-0.011	-0.002	0.011	0.019	83.888%		
x		-0.023	-0.011	0.004	0.009	0.020	81.726%		
σ		0.003	0.002	0.008	0.013	0.003	1.951%		
%RSD		11.730	18.910	172.000	146.000	16.730	2.387		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:03:16	89.207%	-0.020	8.178	7.458	0.000	4436.000	4165.000	4107.000
2	15:03:23	85.191%	-0.066	8.288	8.181	0.000	4695.000	4286.000	4416.000
3	15:03:31	80.173%	-0.062	8.766	8.497	0.000	4914.000	4632.000	4554.000
x		84.857%	-0.049	8.410	8.045	0.000	4682.000	4361.000	4359.000
σ		4.526%	0.025	0.313	0.533	0.000	239.100	242.400	228.600
%RSD		5.334	51.460	3.717	6.620	0.000	5.108	5.558	5.245
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:03:16	883.000	2169.000	0.000	1451.000	23390.000	23200.000	85.576%	0.669
2	15:03:23	942.700	2250.000	0.000	1471.000	23440.000	23570.000	83.899%	1.075
3	15:03:31	982.000	2365.000	0.000	1504.000	23250.000	24370.000	83.729%	0.434
x		935.900	2261.000	0.000	1475.000	23360.000	23710.000	84.401%	0.726
σ		49.810	98.530	0.000	27.070	98.450	600.800	1.020%	0.325
%RSD		5.323	4.357	0.000	1.835	0.421	2.534	1.209	44.710
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:03:16	1.512	0.040	17.140	0.019	107.800	0.205	1.539	2.053
2	15:03:23	1.441	0.045	17.390	0.219	91.420	0.178	1.047	1.990
3	15:03:31	1.563	0.050	17.450	-0.115	87.000	0.164	1.260	2.022
x		1.505	0.045	17.320	0.041	95.400	0.182	1.282	2.022
σ		0.061	0.005	0.166	0.168	10.950	0.021	0.247	0.032
%RSD		4.072	10.580	0.957	409.500	11.480	11.720	19.250	1.571
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:03:16	1.877	0.566	0.532	14.690	0.438	0.703	0.000	62.520
2	15:03:23	2.069	0.425	0.367	14.110	0.375	2.348	0.000	63.690
3	15:03:31	2.201	0.316	0.204	14.580	0.585	2.263	0.000	61.410
x		2.049	0.436	0.368	14.460	0.466	1.771	0.000	62.540
σ		0.163	0.125	0.164	0.307	0.108	0.926	0.000	1.136
%RSD		7.966	28.780	44.550	2.122	23.130	52.280	0.000	1.817
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:03:16	86.064%	2.439	2.212	80.723%	-0.336	-0.388	0.011	-0.011
2	15:03:23	87.135%	2.145	2.445	80.260%	-0.351	-0.369	-0.004	0.007
3	15:03:31	87.886%	2.788	2.297	80.611%	-0.339	-0.388	-0.005	-0.012
x		87.029%	2.457	2.318	80.531%	-0.342	-0.382	0.001	-0.005
σ		0.916%	0.322	0.118	0.241%	0.008	0.011	0.009	0.011
%RSD		1.052	13.120	5.078	0.300	2.352	2.836	1420.000	206.100
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:03:16	82.011%	-0.601	0.867	0.689	23.650	23.640	87.304%	87.279%
2	15:03:23	82.463%	-0.760	1.046	0.556	22.600	23.630	86.009%	86.965%
3	15:03:31	82.838%	-0.585	0.828	0.805	23.160	23.010	86.012%	85.580%
x		82.437%	-0.649	0.914	0.683	23.140	23.430	86.442%	86.608%
σ		0.414%	0.097	0.116	0.125	0.523	0.364	0.747%	0.904%
%RSD		0.502	14.940	12.680	18.260	2.262	1.553	0.864	1.044
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:03:16	-0.000	-0.012	-0.018	-0.023	-0.014	76.219%		
2	15:03:23	-0.028	-0.020	-0.006	-0.026	-0.006	73.873%		
3	15:03:31	-0.022	-0.011	0.002	-0.022	0.001	72.079%		
x		-0.017	-0.014	-0.007	-0.024	-0.006	74.057%		
σ		0.014	0.005	0.010	0.002	0.008	2.076%		
%RSD		87.080	32.860	131.100	9.622	118.600	2.804		

CCV 1558997 5/8/2015 3:09:17 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:25	91.098%	103.200	96.470	95.090	0.000	50170.000	48950.000	48690.000
2	15:08:32	89.714%	106.400	102.100	100.200	0.000	51850.000	51340.000	50600.000
3	15:08:40	89.811%	107.600	96.160	97.360	0.000	51530.000	50340.000	50600.000
x		90.208%	105.700%	98.252%	97.561%	0.000	102.368%	100.417%	99.922%
σ		0.772%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.856	2.146	3.419	2.648	0.000	1.745	2.394	2.205

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:25	468.200	5466.000	0.000	50900.000	48890.000	49200.000	92.402%	97.220
2	15:08:32	490.500	5958.000	0.000	51940.000	50520.000	49740.000	92.279%	100.800
3	15:08:40	495.100	5824.000	0.000	50170.000	48550.000	49890.000	92.779%	101.600
x		96.924%	114.983%	0.000	102.005%	98.642%	99.217%	92.487%	99.882%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.261%	n/a
%RSD		2.968	4.423	0.000	1.737	2.138	0.731	0.282	2.342

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:25	94.290	94.940	515.800	24390.000	23970.000	96.390	98.120	101.300
2	15:08:32	97.190	99.160	539.100	24510.000	23890.000	98.080	100.400	102.000
3	15:08:40	93.740	97.160	520.900	24320.000	24170.000	100.900	99.970	101.300
x		95.073%	97.087%	105.057%	97.634%	96.040%	98.453%	99.493%	101.532%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.948	2.178	2.337	0.400	0.589	2.313	1.213	0.395

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:25	100.900	105.300	103.300	105.400	104.300	106.400	0.000	98.410
2	15:08:32	103.100	105.000	103.200	104.100	104.000	106.100	0.000	99.800
3	15:08:40	101.500	105.600	103.000	102.800	109.400	106.600	0.000	95.210
x		101.849%	105.291%	103.188%	104.108%	105.897%	106.373%	0.000	97.804%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.097	0.283	0.154	1.236	2.896	0.252	0.000	2.407

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:25	85.894%	105.400	105.400	72.456%	103.300	102.700	105.700	104.500
2	15:08:32	88.488%	102.400	105.200	73.618%	102.100	101.900	101.800	105.500
3	15:08:40	89.688%	103.000	105.500	73.903%	102.400	102.200	101.900	105.300
x		88.023%	103.589%	105.391%	73.326%	102.598%	102.297%	103.114%	105.117%
σ		1.939%	n/a	n/a	0.767%	n/a	n/a	n/a	n/a
%RSD		2.203	1.517	0.170	1.046	0.631	0.405	2.182	0.537

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:25	76.615%	100.100	103.500	102.000	95.330	103.000	75.766%	75.904%
2	15:08:32	78.891%	100.500	103.100	104.700	102.300	102.100	77.743%	76.635%
3	15:08:40	79.243%	100.700	101.100	101.700	105.400	100.300	79.218%	78.111%
x		78.250%	100.414%	102.566%	102.816%	100.987%	101.822%	77.575%	76.884%
σ		1.426%	n/a	n/a	n/a	n/a	n/a	1.732%	1.124%
%RSD		1.823	0.301	1.220	1.588	5.090	1.324	2.233	1.462

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:08:25	100.800	100.200	101.500	100.500	100.100	53.475%
2	15:08:32	98.690	98.800	97.650	101.000	98.890	55.686%
3	15:08:40	102.000	98.960	100.100	101.100	100.100	56.394%
x		100.484%	99.333%	99.740%	100.861%	99.702%	55.185%
σ		n/a	n/a	n/a	n/a	n/a	1.522%
%RSD		1.663	0.798	1.954	0.328	0.708	2.759

CCB3 5/8/2015 3:18:11 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:18	93.882%	-0.041	0.570	0.353	0.000	0.799	2.641	2.570
2	15:17:26	95.346%	-0.018	0.387	0.362	0.000	1.556	1.916	2.641
3	15:17:33	100.808%	-0.038	0.282	0.271	0.000	0.767	2.363	3.270
x		96.679%	-0.032	0.413	0.329	0.000	1.041	2.307	2.827
σ		3.650%	0.013	0.146	0.050	0.000	0.447	0.366	0.385
%RSD		3.775	39.670	35.300	15.250	0.000	42.910	15.860	13.620
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:18	0.498	-16.170	0.000	5.000	-4.162	4.313	98.563%	0.015
2	15:17:26	0.635	-16.510	0.000	7.558	-0.636	3.661	92.912%	-0.017
3	15:17:33	0.547	-17.180	0.000	6.147	-3.983	5.322	96.699%	0.098
x		0.560	-16.620	0.000	6.235	-2.927	4.432	96.058%	0.032
σ		0.069	0.517	0.000	1.281	1.986	0.837	2.880%	0.059
%RSD		12.370	3.111	0.000	20.540	67.860	18.880	2.998	185.200
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:18	0.014	0.022	0.046	7.833	8.655	0.017	-0.021	-0.042
2	15:17:26	0.002	0.007	0.069	7.673	8.191	0.021	-0.011	0.016
3	15:17:33	0.042	0.016	0.047	6.109	6.234	0.008	0.004	-0.018
x		0.019	0.015	0.054	7.205	7.693	0.015	-0.009	-0.015
σ		0.021	0.008	0.013	0.952	1.285	0.007	0.013	0.029
%RSD		107.200	51.210	24.360	13.220	16.700	42.940	138.500	200.000
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:18	-0.077	0.075	0.120	-0.045	0.029	0.795	0.000	0.011
2	15:17:26	-0.005	0.228	0.143	-0.066	0.002	0.596	0.000	0.014
3	15:17:33	-0.017	0.182	0.174	-0.047	-0.053	-0.397	0.000	0.011
x		-0.033	0.162	0.146	-0.053	-0.007	0.331	0.000	0.012
σ		0.038	0.078	0.027	0.012	0.042	0.639	0.000	0.002
%RSD		115.900	48.350	18.570	21.970	583.000	192.800	0.000	15.920
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:18	95.734%	0.317	0.403	93.466%	-0.323	-0.336	-0.004	0.009
2	15:17:26	97.640%	0.366	0.241	94.156%	-0.297	-0.333	-0.004	0.013
3	15:17:33	99.724%	0.198	0.321	95.009%	-0.288	-0.333	-0.004	0.035
x		97.699%	0.294	0.322	94.211%	-0.303	-0.334	-0.004	0.019
σ		1.996%	0.086	0.081	0.773%	0.018	0.002	0.000	0.014
%RSD		2.043	29.390	25.270	0.820	6.014	0.603	0.429	71.760
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:18	93.167%	-0.599	0.097	-0.037	0.078	-0.019	94.122%	93.335%
2	15:17:26	96.772%	-0.434	0.033	-0.051	0.011	0.021	95.284%	95.277%
3	15:17:33	96.907%	-0.651	0.027	-0.101	0.043	-0.019	95.478%	96.690%
x		95.615%	-0.561	0.052	-0.063	0.044	-0.006	94.961%	95.101%
σ		2.121%	0.114	0.039	0.034	0.033	0.023	0.734%	1.685%
%RSD		2.218	20.250	73.820	53.330	75.250	402.300	0.772	1.771
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:17:18	0.065	0.042	0.005	-0.006	0.011	93.469%		
2	15:17:26	0.053	0.020	0.005	-0.009	0.003	93.643%		
3	15:17:33	0.041	0.035	-0.002	-0.003	0.007	94.568%		
x		0.053	0.032	0.003	-0.006	0.007	93.894%		
σ		0.012	0.011	0.004	0.003	0.004	0.591%		
%RSD		22.360	33.920	135.800	48.640	63.320	0.629		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:22:29	91.640%	-0.056	25.900	25.830	0.000	4381.000	4359.000	4303.000
2	15:22:37	89.086%	-0.015	27.220	26.970	0.000	4595.000	4595.000	4668.000
3	15:22:44	89.913%	-0.042	25.390	25.330	0.000	4535.000	4573.000	4617.000
x		90.213%	-0.038	26.170	26.040	0.000	4503.000	4509.000	4529.000
σ		1.303%	0.021	0.945	0.843	0.000	110.000	130.700	197.800
%RSD		1.445	54.690	3.613	3.239	0.000	2.443	2.899	4.367

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:22:29	50.990	1588.000	0.000	1435.000	23520.000	24110.000	89.096%	0.334
2	15:22:37	51.740	1678.000	0.000	1488.000	24230.000	23980.000	87.978%	0.515
3	15:22:44	52.070	1685.000	0.000	1472.000	24590.000	24440.000	86.339%	0.327
x		51.600	1650.000	0.000	1465.000	24120.000	24180.000	87.804%	0.392
σ		0.553	54.060	0.000	27.330	541.700	235.500	1.387%	0.107
%RSD		1.073	3.275	0.000	1.865	2.246	0.974	1.580	27.200

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:22:29	0.669	0.128	4.955	1.670	107.000	0.102	0.576	4.127
2	15:22:37	0.669	0.126	5.023	1.972	107.900	0.104	0.522	4.123
3	15:22:44	0.672	0.125	5.417	2.099	93.650	0.080	0.605	4.359
x		0.670	0.126	5.132	1.914	102.900	0.095	0.568	4.203
σ		0.002	0.001	0.250	0.220	7.983	0.013	0.042	0.135
%RSD		0.284	0.918	4.862	11.500	7.762	13.840	7.453	3.214

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:22:29	3.868	6.569	6.351	0.270	0.099	1.934	0.000	50.680
2	15:22:37	4.212	6.684	7.039	0.292	0.219	2.351	0.000	51.410
3	15:22:44	4.595	6.162	7.200	0.253	0.220	2.207	0.000	50.970
x		4.225	6.472	6.864	0.272	0.179	2.164	0.000	51.020
σ		0.364	0.274	0.451	0.020	0.070	0.212	0.000	0.365
%RSD		8.608	4.237	6.567	7.241	38.790	9.803	0.000	0.716

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:22:29	86.175%	0.612	0.631	78.493%	-0.326	-0.394	0.027	0.002
2	15:22:37	87.121%	0.276	0.624	79.068%	-0.320	-0.378	-0.004	-0.011
3	15:22:44	87.243%	0.661	0.735	78.570%	-0.348	-0.384	-0.005	0.008
x		86.847%	0.517	0.663	78.710%	-0.331	-0.386	0.006	-0.001
σ		0.584%	0.210	0.062	0.312%	0.015	0.008	0.018	0.010
%RSD		0.673	40.610	9.403	0.396	4.425	2.033	305.300	1440.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:22:29	80.179%	-1.079	0.035	-0.076	31.760	29.970	83.379%	82.361%
2	15:22:37	81.706%	-1.097	0.045	-0.005	32.630	31.400	83.323%	83.600%
3	15:22:44	81.460%	-1.079	0.072	-0.095	30.670	32.180	83.809%	83.453%
x		81.115%	-1.085	0.051	-0.059	31.680	31.180	83.504%	83.138%
σ		0.820%	0.010	0.019	0.048	0.983	1.117	0.266%	0.677%
%RSD		1.011	0.955	37.570	81.540	3.101	3.583	0.318	0.814

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:22:29	0.001	0.008	0.217	0.181	0.214	65.909%
2	15:22:37	0.023	-0.002	0.236	0.263	0.244	66.241%
3	15:22:44	-0.002	0.002	0.300	0.233	0.261	65.054%
x		0.007	0.003	0.251	0.226	0.240	65.735%
σ		0.013	0.005	0.043	0.041	0.024	0.612%
%RSD		185.100	180.700	17.300	18.340	10.070	0.932

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:37	101.003%	-0.053	5.696	5.486	0.000	853.200	850.200	862.200
2	15:27:45	99.722%	-0.024	5.491	5.555	0.000	855.900	863.000	875.600
3	15:27:52	97.932%	-0.016	5.289	5.403	0.000	879.100	890.500	886.000
x		99.552%	-0.031	5.492	5.482	0.000	862.800	867.900	874.600
σ		1.543%	0.020	0.203	0.076	0.000	14.260	20.580	11.940
%RSD		1.550	62.700	3.703	1.386	0.000	1.653	2.372	1.365

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:37	11.050	284.800	0.000	283.100	4693.000	4558.000	94.591%	0.001
2	15:27:45	11.530	298.900	0.000	287.500	4809.000	4578.000	91.589%	0.048
3	15:27:52	10.730	309.300	0.000	294.000	4974.000	4694.000	90.780%	0.092
x		11.100	297.700	0.000	288.200	4825.000	4610.000	92.320%	0.047
σ		0.399	12.290	0.000	5.466	141.000	73.490	2.008%	0.045
%RSD		3.592	4.127	0.000	1.897	2.922	1.594	2.175	96.470

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:37	0.120	0.021	1.023	0.630	20.230	0.016	0.044	0.851
2	15:27:45	0.132	0.017	1.019	0.598	24.270	0.045	0.165	0.924
3	15:27:52	0.201	0.031	1.093	0.245	19.300	0.022	0.092	0.934
x		0.151	0.023	1.045	0.491	21.270	0.028	0.100	0.903
σ		0.044	0.007	0.042	0.214	2.641	0.015	0.061	0.046
%RSD		29.190	30.570	3.988	43.560	12.420	53.870	60.770	5.040

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:37	0.865	1.801	1.491	0.016	-0.024	1.087	0.000	10.520
2	15:27:45	0.826	1.529	1.799	0.018	-0.023	1.161	0.000	10.670
3	15:27:52	0.786	1.616	1.415	-0.011	0.064	0.801	0.000	10.350
x		0.826	1.649	1.569	0.008	0.006	1.016	0.000	10.510
σ		0.039	0.139	0.203	0.016	0.051	0.190	0.000	0.158
%RSD		4.765	8.408	12.970	212.800	872.900	18.700	0.000	1.505

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:37	89.201%	0.103	0.246	82.172%	-0.300	-0.340	0.010	-0.006
2	15:27:45	89.111%	0.186	0.166	83.097%	-0.313	-0.359	-0.004	-0.006
3	15:27:52	89.801%	0.184	0.210	83.064%	-0.295	-0.329	-0.004	-0.006
x		89.371%	0.158	0.207	82.778%	-0.303	-0.342	0.000	-0.006
σ		0.375%	0.048	0.040	0.525%	0.009	0.015	0.009	0.000
%RSD		0.420	30.270	19.460	0.634	2.960	4.368	1881.000	4.534

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:37	83.870%	-0.547	0.009	-0.124	6.581	6.450	84.001%	85.864%
2	15:27:45	85.056%	-0.730	0.006	-0.039	5.179	6.112	87.070%	86.593%
3	15:27:52	86.499%	-0.783	-0.058	-0.128	6.760	6.332	86.910%	87.462%
x		85.142%	-0.687	-0.014	-0.097	6.173	6.298	85.994%	86.640%
σ		1.317%	0.124	0.038	0.050	0.866	0.172	1.727%	0.800%
%RSD		1.546	18.040	261.900	51.850	14.030	2.725	2.009	0.923

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:27:37	0.007	-0.009	0.065	0.025	0.050	73.350%
2	15:27:45	-0.008	-0.006	0.103	0.039	0.061	75.437%
3	15:27:52	-0.014	-0.001	0.057	0.014	0.046	77.900%
x		-0.005	-0.005	0.075	0.026	0.052	75.562%
σ		0.011	0.004	0.025	0.012	0.008	2.278%
%RSD		200.600	71.700	32.990	47.020	14.520	3.015

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:36:31	93.165%	-0.047	0.030	-0.013	0.000	-1.526	0.200	0.450
2	15:36:39	96.407%	-0.068	-0.003	-0.149	0.000	-1.404	0.552	0.206
3	15:36:47	93.415%	-0.032	-0.067	-0.178	0.000	-1.500	0.817	0.697
x		94.329%	-0.049	-0.014	-0.114	0.000	-1.477	0.523	0.451
σ		1.804%	0.018	0.049	0.088	0.000	0.064	0.310	0.245
%RSD		1.912	37.080	365.800	77.390	0.000	4.337	59.180	54.380
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:36:31	0.127	-18.650	0.000	5.266	-2.870	6.424	86.548%	-0.052
2	15:36:39	0.404	-18.310	0.000	2.751	3.693	3.459	90.845%	-0.078
3	15:36:47	0.479	-18.680	0.000	2.916	-4.448	5.460	91.523%	-0.015
x		0.337	-18.550	0.000	3.645	-1.208	5.115	89.638%	-0.048
σ		0.185	0.206	0.000	1.407	4.318	1.512	2.698%	0.032
%RSD		55.050	1.109	0.000	38.600	357.300	29.570	3.010	65.200
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:36:31	-0.017	0.001	0.009	-1.788	-1.365	-0.004	0.002	-0.005
2	15:36:39	-0.017	-0.001	-0.009	-1.841	-0.913	-0.004	0.009	-0.003
3	15:36:47	-0.026	-0.005	0.006	-2.025	-3.126	-0.004	-0.018	0.013
x		-0.020	-0.001	0.002	-1.884	-1.801	-0.004	-0.002	0.002
σ		0.005	0.003	0.009	0.125	1.169	0.000	0.014	0.010
%RSD		26.570	215.600	446.200	6.605	64.890	1.307	568.500	561.300
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:36:31	-0.028	0.107	0.249	-0.096	-0.053	0.786	0.000	0.005
2	15:36:39	-0.001	0.475	0.437	-0.070	-0.053	0.989	0.000	0.012
3	15:36:47	-0.041	0.327	0.275	-0.086	-0.053	0.729	0.000	0.001
x		-0.023	0.303	0.320	-0.084	-0.053	0.835	0.000	0.006
σ		0.020	0.185	0.102	0.013	0.000	0.137	0.000	0.005
%RSD		86.350	61.180	31.770	15.830	0.000	16.380	0.000	86.850
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:36:31	90.683%	-0.094	-0.060	89.553%	-0.299	-0.379	-0.004	-0.012
2	15:36:39	94.201%	-0.046	-0.037	89.818%	-0.332	-0.373	-0.004	-0.001
3	15:36:47	92.760%	-0.105	-0.007	90.119%	-0.313	-0.348	-0.004	-0.007
x		92.548%	-0.082	-0.035	89.830%	-0.315	-0.367	-0.004	-0.007
σ		1.768%	0.031	0.027	0.283%	0.017	0.016	0.000	0.006
%RSD		1.911	38.080	77.050	0.315	5.323	4.405	0.570	82.420
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:36:31	88.537%	-1.003	-0.067	-0.155	0.013	-0.019	92.346%	92.069%
2	15:36:39	89.852%	-1.199	-0.050	-0.217	-0.020	0.002	92.441%	92.546%
3	15:36:47	91.029%	-1.012	-0.074	-0.188	-0.020	0.002	91.870%	92.214%
x		89.806%	-1.071	-0.063	-0.187	-0.009	-0.005	92.219%	92.276%
σ		1.247%	0.111	0.013	0.031	0.020	0.012	0.306%	0.245%
%RSD		1.388	10.350	19.780	16.490	213.400	240.600	0.331	0.265
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:36:31	-0.014	-0.021	-0.001	-0.024	-0.003	90.944%		
2	15:36:39	-0.016	-0.011	-0.009	-0.014	-0.006	88.879%		
3	15:36:47	-0.006	-0.015	-0.006	-0.014	-0.006	87.274%		
x		-0.012	-0.016	-0.005	-0.018	-0.005	89.032%		
σ		0.005	0.005	0.004	0.006	0.002	1.840%		
%RSD		43.050	31.730	84.170	33.530	32.020	2.066		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:38	101.609%	-0.030	0.130	-0.025	0.000	-2.771	0.512	0.403
2	15:41:45	100.768%	-0.021	-0.052	-0.009	0.000	-2.507	0.635	0.439
3	15:41:53	95.947%	-0.027	0.102	-0.020	0.000	-2.136	0.505	0.235
x		99.441%	-0.026	0.060	-0.018	0.000	-2.471	0.551	0.359
σ		3.055%	0.005	0.098	0.008	0.000	0.319	0.073	0.109
%RSD		3.072	18.030	163.800	44.140	0.000	12.920	13.290	30.310
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:38	0.359	-20.380	0.000	2.459	-1.804	4.429	94.360%	-0.100
2	15:41:45	0.212	-19.170	0.000	2.202	3.039	5.767	94.450%	-0.141
3	15:41:53	0.221	-18.270	0.000	3.094	-2.559	4.112	92.485%	-0.141
x		0.264	-19.270	0.000	2.585	-0.442	4.769	93.765%	-0.128
σ		0.082	1.062	0.000	0.459	3.037	0.878	1.110%	0.024
%RSD		31.200	5.509	0.000	17.760	687.800	18.410	1.183	18.460
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:38	-0.019	0.003	0.005	-1.866	-1.156	0.005	0.169	0.097
2	15:41:45	-0.021	-0.005	0.006	-1.940	-2.346	0.002	0.116	0.086
3	15:41:53	0.002	-0.001	0.001	-1.749	-2.528	0.009	0.261	0.078
x		-0.013	-0.001	0.004	-1.852	-2.010	0.005	0.182	0.087
σ		0.013	0.004	0.002	0.096	0.745	0.004	0.073	0.009
%RSD		100.700	438.400	58.470	5.202	37.070	69.070	40.230	10.770
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:38	0.024	0.548	0.778	-0.097	-0.024	-0.658	0.000	0.012
2	15:41:45	0.137	0.566	0.360	-0.102	0.035	0.586	0.000	0.023
3	15:41:53	0.096	0.380	0.428	-0.091	-0.053	0.039	0.000	0.041
x		0.086	0.498	0.522	-0.097	-0.014	-0.011	0.000	0.025
σ		0.057	0.103	0.224	0.005	0.045	0.623	0.000	0.014
%RSD		66.980	20.660	42.900	5.657	327.900	5602.000	0.000	55.730
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:38	88.940%	-0.047	-0.009	83.276%	-0.330	-0.364	-0.004	-0.012
2	15:41:45	88.468%	-0.142	0.089	82.991%	-0.321	-0.370	-0.005	-0.018
3	15:41:53	90.929%	-0.006	0.003	82.688%	-0.303	-0.358	-0.004	-0.012
x		89.446%	-0.065	0.028	82.985%	-0.318	-0.364	-0.004	-0.014
σ		1.306%	0.070	0.053	0.294%	0.014	0.006	0.000	0.004
%RSD		1.460	106.900	193.900	0.355	4.297	1.666	0.579	25.860
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:41:38	83.178%	-1.049	-0.048	-0.164	-0.020	-0.019	83.756%	82.020%
2	15:41:45	83.148%	-1.082	-0.080	-0.155	0.016	0.050	83.713%	83.722%
3	15:41:53	83.699%	-1.158	-0.100	-0.172	-0.020	0.027	84.565%	84.015%
x		83.342%	-1.096	-0.076	-0.164	-0.008	0.019	84.011%	83.252%
σ		0.310%	0.056	0.026	0.009	0.021	0.035	0.480%	1.077%
%RSD		0.372	5.085	34.360	5.197	256.700	183.300	0.571	1.294
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:41:38	-0.021	-0.017	0.012	-0.017	0.003	67.050%		
2	15:41:45	-0.018	-0.019	-0.009	-0.021	-0.008	67.356%		
3	15:41:53	-0.027	-0.024	-0.004	-0.012	0.004	65.977%		
x		-0.022	-0.020	-0.000	-0.017	-0.000	66.794%		
σ		0.005	0.003	0.011	0.005	0.007	0.724%		
%RSD		21.050	16.560	3086.000	27.020	2185.000	1.084		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:46:44	81.642%	45.080	843.000	830.500	0.000	45260.000	44650.000	45050.000
2	15:46:51	76.888%	46.840	841.800	854.200	0.000	46880.000	45470.000	46300.000
3	15:46:59	79.417%	43.750	760.600	779.100	0.000	46490.000	45070.000	45470.000
x		79.316%	45.220	815.100	821.200	0.000	46210.000	45060.000	45610.000
σ		2.379%	1.550	47.210	38.380	0.000	848.600	408.800	637.200
%RSD		2.999	3.428	5.792	4.674	0.000	1.836	0.907	1.397

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:46:44	1746.000	10070.000	0.000	48770.000	48000.000	46870.000	74.249%	919.100
2	15:46:51	1848.000	10390.000	0.000	49110.000	47350.000	47510.000	73.205%	975.800
3	15:46:59	1817.000	10200.000	0.000	48730.000	47400.000	47270.000	71.532%	977.800
x		1804.000	10220.000	0.000	48870.000	47580.000	47220.000	72.995%	957.600
σ		52.290	163.500	0.000	207.400	359.900	326.100	1.371%	33.310
%RSD		2.899	1.600	0.000	0.424	0.756	0.691	1.878	3.479

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:46:44	475.700	190.200	509.300	978.200	1092.000	473.400	482.100	238.200
2	15:46:51	472.800	191.600	513.100	999.700	1097.000	472.100	474.400	243.700
3	15:46:59	489.400	191.800	518.700	1007.000	1072.000	489.400	482.700	240.600
x		479.300	191.200	513.700	994.800	1087.000	478.300	479.700	240.800
σ		8.891	0.888	4.745	14.790	12.930	9.667	4.640	2.767
%RSD		1.855	0.464	0.924	1.487	1.189	2.021	0.967	1.149

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:46:44	246.700	513.800	502.700	39.690	10.730	9.447	0.000	943.400
2	15:46:51	247.100	514.600	517.100	40.790	10.400	10.160	0.000	956.300
3	15:46:59	240.700	529.500	522.500	41.310	9.904	12.860	0.000	955.500
x		244.900	519.300	514.100	40.590	10.350	10.820	0.000	951.700
σ		3.572	8.841	10.240	0.826	0.417	1.802	0.000	7.232
%RSD		1.459	1.703	1.993	2.034	4.029	16.640	0.000	0.760

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:46:44	74.596%	1013.000	1036.000	66.637%	48.110	49.640	52.690	91.970
2	15:46:51	74.723%	1033.000	1044.000	66.662%	48.680	49.080	50.840	92.440
3	15:46:59	74.622%	1026.000	1041.000	66.850%	49.550	49.360	52.150	91.440
x		74.647%	1024.000	1040.000	66.716%	48.780	49.360	51.890	91.950
σ		0.067%	10.230	3.675	0.116%	0.725	0.278	0.952	0.504
%RSD		0.090	0.999	0.353	0.174	1.485	0.562	1.834	0.548

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:46:44	68.623%	2038.000	512.300	508.800	1860.000	1895.000	78.437%	79.473%
2	15:46:51	70.589%	2008.000	500.400	489.800	1862.000	1875.000	78.288%	79.482%
3	15:46:59	71.204%	2018.000	504.900	502.600	1860.000	1881.000	79.397%	80.666%
x		70.139%	2021.000	505.800	500.400	1861.000	1883.000	78.707%	79.873%
σ		1.348%	15.130	6.003	9.687	0.989	10.050	0.602%	0.686%
%RSD		1.922	0.748	1.187	1.936	0.053	0.534	0.764	0.859

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:46:44	46.050	45.850	18.910	18.860	18.780	66.063%
2	15:46:51	46.120	45.260	19.720	18.820	18.920	67.818%
3	15:46:59	47.700	46.860	19.100	18.630	18.950	67.856%
x		46.620	45.990	19.240	18.770	18.880	67.245%
σ		0.933	0.806	0.422	0.124	0.090	1.024%
%RSD		2.001	1.752	2.193	0.661	0.479	1.523

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:51:50	73.788%	47.640	854.800	849.800	0.000	50380.000	48250.000	47750.000
2	15:51:57	76.691%	43.330	771.600	839.800	0.000	49210.000	47960.000	48430.000
3	15:52:05	72.964%	47.230	841.300	858.400	0.000	50480.000	48770.000	48850.000
x		74.481%	46.070	822.600	849.300	0.000	50020.000	48330.000	48340.000
σ		1.958%	2.377	44.640	9.270	0.000	705.600	410.900	555.600
%RSD		2.629	5.160	5.427	1.091	0.000	1.411	0.850	1.149
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:51:50	1869.000	10340.000	0.000	51070.000	47510.000	47890.000	71.410%	972.400
2	15:51:57	1884.000	10370.000	0.000	49190.000	47700.000	48850.000	70.296%	993.900
3	15:52:05	1966.000	10540.000	0.000	50870.000	48030.000	47900.000	70.215%	1011.000
x		1906.000	10420.000	0.000	50380.000	47750.000	48210.000	70.640%	992.600
σ		52.450	110.100	0.000	1029.000	265.700	549.700	0.668%	19.550
%RSD		2.752	1.057	0.000	2.042	0.556	1.140	0.945	1.969
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:51:50	497.500	193.200	529.900	1042.000	1157.000	497.900	499.800	247.200
2	15:51:57	507.000	195.100	542.300	1064.000	1125.000	508.900	493.100	254.700
3	15:52:05	505.800	196.100	525.900	1066.000	1155.000	503.200	492.000	252.200
x		503.400	194.800	532.700	1057.000	1146.000	503.300	495.000	251.300
σ		5.204	1.451	8.551	13.430	17.620	5.505	4.225	3.817
%RSD		1.034	0.745	1.605	1.270	1.538	1.094	0.854	1.518
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:51:50	248.200	523.300	507.700	40.350	10.750	14.300	0.000	962.500
2	15:51:57	250.800	524.300	509.800	40.930	9.696	14.430	0.000	968.600
3	15:52:05	256.100	529.100	522.300	40.830	10.360	12.550	0.000	974.600
x		251.700	525.600	513.300	40.710	10.270	13.760	0.000	968.500
σ		4.019	3.114	7.912	0.309	0.532	1.049	0.000	6.069
%RSD		1.597	0.592	1.542	0.759	5.185	7.619	0.000	0.627
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:51:50	75.444%	1031.000	1040.000	68.698%	49.890	50.090	50.400	92.550
2	15:51:57	76.140%	1043.000	1061.000	69.368%	50.980	51.080	52.270	95.900
3	15:52:05	76.229%	1069.000	1076.000	70.599%	50.370	49.430	50.800	94.320
x		75.938%	1048.000	1059.000	69.555%	50.410	50.200	51.160	94.250
σ		0.430%	19.660	18.170	0.964%	0.546	0.832	0.982	1.675
%RSD		0.566	1.876	1.716	1.386	1.083	1.658	1.920	1.777
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:51:50	72.642%	2047.000	506.100	499.400	1864.000	1914.000	80.183%	80.852%
2	15:51:57	72.247%	2073.000	514.400	506.300	1885.000	1929.000	80.502%	81.002%
3	15:52:05	73.843%	2047.000	500.400	499.100	1882.000	1894.000	81.428%	81.280%
x		72.911%	2056.000	507.000	501.600	1877.000	1913.000	80.704%	81.045%
σ		0.832%	15.270	7.043	4.040	11.630	17.270	0.647%	0.217%
%RSD		1.140	0.743	1.389	0.805	0.620	0.903	0.801	0.268
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:51:50	48.640	48.640	19.960	19.150	19.610	72.768%		
2	15:51:57	48.720	48.700	19.990	19.530	19.560	73.947%		
3	15:52:05	47.730	47.950	20.010	19.640	19.630	75.014%		
x		48.360	48.430	19.990	19.440	19.600	73.909%		
σ		0.551	0.413	0.024	0.258	0.035	1.123%		
%RSD		1.139	0.854	0.118	1.328	0.177	1.520		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:56:56	80.566%	-0.055	12.180	13.340	0.000	65800.000	13.260	10.480
2	15:57:04	76.735%	0.005	12.740	13.120	0.000	64860.000	12.240	10.830
3	15:57:11	79.758%	-0.046	12.250	11.560	0.000	64100.000	12.930	11.150
x		79.020%	-0.032	12.390	12.670	0.000	64920.000	12.810	10.820
σ		2.020%	0.032	0.305	0.966	0.000	852.100	0.524	0.334
%RSD		2.556	100.400	2.465	7.624	0.000	1.313	4.088	3.082
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:56:56	3.343	49.320	0.000	159.200	789.800	772.700	71.576%	1.204
2	15:57:04	3.593	50.490	0.000	158.000	837.700	782.500	71.428%	1.584
3	15:57:11	3.717	52.280	0.000	157.600	810.600	786.800	69.885%	1.677
x		3.551	50.700	0.000	158.300	812.700	780.700	70.963%	1.488
σ		0.190	1.495	0.000	0.784	24.020	7.225	0.937%	0.251
%RSD		5.358	2.948	0.000	0.496	2.955	0.925	1.320	16.850
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:56:56	0.005	0.120	1.491	29.810	30.810	0.877	2.322	0.194
2	15:57:04	0.007	0.170	1.479	30.100	29.330	0.841	1.847	0.286
3	15:57:11	-0.007	0.160	1.547	28.140	32.840	0.734	2.358	0.157
x		0.002	0.150	1.506	29.350	30.990	0.817	2.176	0.212
σ		0.008	0.026	0.036	1.056	1.761	0.075	0.285	0.067
%RSD		470.800	17.570	2.387	3.598	5.683	9.125	13.100	31.390
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:56:56	0.227	1.980	1.920	0.082	28.190	34.910	0.000	3.589
2	15:57:04	0.248	2.003	2.010	0.082	25.090	35.830	0.000	3.888
3	15:57:11	0.265	1.594	2.088	0.079	29.710	32.680	0.000	3.573
x		0.247	1.859	2.006	0.081	27.660	34.470	0.000	3.683
σ		0.019	0.230	0.084	0.002	2.358	1.621	0.000	0.177
%RSD		7.629	12.380	4.198	2.762	8.522	4.702	0.000	4.811
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:56:56	75.562%	9.303	9.470	69.028%	-0.332	-0.374	0.031	0.253
2	15:57:04	75.602%	7.723	7.738	69.095%	-0.332	-0.388	-0.004	0.122
3	15:57:11	74.747%	6.546	7.100	68.763%	-0.303	-0.399	0.013	0.289
x		75.304%	7.857	8.103	68.962%	-0.322	-0.387	0.013	0.221
σ		0.483%	1.384	1.227	0.175%	0.016	0.013	0.018	0.088
%RSD		0.641	17.610	15.140	0.254	5.115	3.291	134.100	39.830
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:56:56	70.820%	12.030	0.328	0.317	0.397	0.243	76.454%	78.263%
2	15:57:04	70.856%	9.536	0.312	0.089	0.312	0.241	77.227%	78.368%
3	15:57:11	70.908%	8.362	0.349	0.108	0.353	0.215	77.511%	79.527%
x		70.861%	9.977	0.330	0.171	0.354	0.233	77.064%	78.720%
σ		0.044%	1.875	0.019	0.127	0.043	0.016	0.547%	0.701%
%RSD		0.062	18.800	5.618	73.910	12.020	6.751	0.710	0.891
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	15:56:56	0.214	0.194	0.070	0.023	0.057	66.444%		
2	15:57:04	0.130	0.129	0.033	0.054	0.048	66.051%		
3	15:57:11	0.154	0.144	0.076	0.068	0.065	65.148%		
x		0.166	0.156	0.060	0.048	0.057	65.881%		
σ		0.043	0.034	0.023	0.023	0.009	0.665%		
%RSD		25.980	21.650	38.770	48.240	15.080	1.009		

180-43653-D-4-B 5/8/2015 4:02:56 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:02:04	80.398%	-0.025	11.200	11.630	0.000	72780.000	194.400	180.200
2	16:02:12	80.700%	-0.031	11.170	11.160	0.000	75490.000	188.000	184.000
3	16:02:19	79.351%	-0.043	10.620	10.920	0.000	76170.000	185.500	193.800
x		80.150%	-0.033	11.000	11.240	0.000	74810.000	189.300	186.000
σ		0.708%	0.009	0.327	0.358	0.000	1793.000	4.555	7.018
%RSD		0.883	27.470	2.974	3.189	0.000	2.396	2.406	3.774

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:02:04	1.557	62.830	0.000	101.500	1501.000	1477.000	73.323%	0.410
2	16:02:12	1.832	70.360	0.000	99.660	1552.000	1458.000	71.596%	0.423
3	16:02:19	1.892	75.680	0.000	101.300	1497.000	1486.000	71.854%	0.261
x		1.760	69.620	0.000	100.800	1517.000	1474.000	72.258%	0.365
σ		0.179	6.458	0.000	1.001	30.710	14.190	0.931%	0.090
%RSD		10.150	9.275	0.000	0.993	2.025	0.963	1.289	24.780

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:02:04	-0.191	0.148	5.096	23.440	23.830	0.435	0.353	0.068
2	16:02:12	-0.048	0.093	5.229	24.680	24.140	0.434	0.372	0.008
3	16:02:19	0.246	0.103	5.272	24.030	26.240	0.438	0.573	0.036
x		0.002	0.115	5.199	24.050	24.740	0.436	0.433	0.037
σ		0.223	0.029	0.092	0.621	1.310	0.002	0.122	0.030
%RSD		10590.000	25.550	1.762	2.581	5.295	0.473	28.280	79.660

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:02:04	0.075	0.593	0.641	0.042	17.850	24.060	0.000	4.774
2	16:02:12	0.028	0.861	0.367	0.114	18.240	24.380	0.000	4.512
3	16:02:19	0.279	0.957	0.893	0.160	18.530	27.400	0.000	4.763
x		0.127	0.804	0.634	0.105	18.210	25.280	0.000	4.683
σ		0.133	0.189	0.263	0.060	0.341	1.843	0.000	0.148
%RSD		104.800	23.450	41.530	56.800	1.871	7.291	0.000	3.165

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:02:04	74.254%	1.777	1.621	66.053%	-0.319	-0.395	-0.004	0.129
2	16:02:12	73.717%	1.478	1.679	66.635%	-0.338	-0.388	0.013	0.050
3	16:02:19	74.754%	1.761	1.558	66.696%	-0.327	-0.399	-0.004	0.050
x		74.241%	1.672	1.620	66.461%	-0.328	-0.394	0.002	0.076
σ		0.519%	0.168	0.060	0.355%	0.010	0.006	0.010	0.045
%RSD		0.699	10.040	3.733	0.534	2.899	1.435	670.900	59.670

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:02:04	67.517%	2.573	0.091	-0.111	0.154	0.090	73.530%	73.838%
2	16:02:12	69.871%	2.378	0.144	-0.097	0.107	0.141	74.639%	75.190%
3	16:02:19	69.818%	2.278	0.099	0.029	0.108	0.195	73.874%	74.961%
x		69.069%	2.410	0.112	-0.060	0.123	0.142	74.015%	74.663%
σ		1.344%	0.150	0.029	0.077	0.027	0.053	0.568%	0.724%
%RSD		1.946	6.226	25.820	129.200	21.910	36.980	0.767	0.969

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	16:02:04	0.020	0.032	0.003	-0.014	-0.002	57.773%
2	16:02:12	0.016	0.019	-0.011	-0.009	0.001	58.010%
3	16:02:19	0.009	0.025	-0.001	-0.019	-0.003	57.816%
x		0.015	0.025	-0.003	-0.014	-0.001	57.866%
σ		0.005	0.007	0.007	0.005	0.002	0.126%
%RSD		37.250	26.350	251.200	35.190	138.800	0.218

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:07:12	80.011%	-0.041	15.400	17.020	0.000	96370.000	58.870	55.560
2	16:07:19	79.309%	-0.032	16.740	16.790	0.000	96530.000	55.760	57.450
3	16:07:27	77.243%	-0.071	16.390	16.330	0.000	101400.000	59.110	58.320
x		78.854%	-0.048	16.180	16.710	0.000	98110.000	57.910	57.110
σ		1.439%	0.021	0.695	0.351	0.000	2872.000	1.868	1.408
%RSD		1.825	43.050	4.298	2.097	0.000	2.927	3.225	2.466
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:07:12	12.180	120.200	0.000	188.200	614.000	567.800	71.758%	0.100
2	16:07:19	12.100	126.100	0.000	195.900	601.800	572.900	72.134%	0.206
3	16:07:27	12.400	123.500	0.000	182.800	606.400	550.200	71.010%	0.265
x		12.230	123.300	0.000	189.000	607.400	563.600	71.634%	0.191
σ		0.155	2.949	0.000	6.583	6.145	11.880	0.572%	0.084
%RSD		1.267	2.392	0.000	3.484	1.012	2.108	0.799	43.920
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:07:12	-0.046	0.371	1.209	264.400	260.700	0.168	0.612	0.441
2	16:07:19	-0.238	0.375	1.227	262.400	249.900	0.121	0.455	0.560
3	16:07:27	0.185	0.378	1.286	268.700	229.400	0.133	0.568	0.567
x		-0.033	0.375	1.241	265.200	246.700	0.141	0.545	0.523
σ		0.212	0.004	0.040	3.233	15.900	0.024	0.081	0.071
%RSD		638.500	1.038	3.236	1.219	6.446	17.160	14.840	13.590
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:07:12	0.435	2.093	1.354	4.858	47.590	64.410	0.000	2.440
2	16:07:19	0.654	2.069	1.641	4.443	53.300	65.500	0.000	2.492
3	16:07:27	0.628	2.281	2.581	4.771	52.970	67.720	0.000	2.310
x		0.573	2.148	1.859	4.691	51.280	65.870	0.000	2.414
σ		0.120	0.116	0.642	0.219	3.208	1.686	0.000	0.094
%RSD		20.890	5.408	34.540	4.669	6.254	2.560	0.000	3.879
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:07:12	73.351%	1.073	1.188	65.881%	-0.341	-0.395	-0.004	-0.001
2	16:07:19	76.024%	1.271	1.153	66.772%	-0.331	-0.399	-0.004	0.051
3	16:07:27	74.424%	1.094	1.089	66.846%	-0.349	-0.384	-0.004	0.035
x		74.600%	1.146	1.143	66.500%	-0.340	-0.392	-0.004	0.028
σ		1.345%	0.109	0.050	0.537%	0.009	0.008	0.000	0.027
%RSD		1.803	9.477	4.380	0.808	2.710	1.937	1.355	94.480
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:07:12	67.662%	1.404	0.349	0.255	0.328	0.336	73.630%	73.867%
2	16:07:19	69.083%	1.186	0.470	0.176	0.621	0.356	74.959%	75.210%
3	16:07:27	70.283%	1.023	0.407	0.159	0.567	0.507	76.326%	76.445%
x		69.009%	1.204	0.409	0.197	0.505	0.400	74.972%	75.174%
σ		1.312%	0.191	0.060	0.051	0.156	0.094	1.348%	1.290%
%RSD		1.901	15.850	14.770	25.920	30.820	23.440	1.798	1.715
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:07:12	0.031	0.030	0.453	0.342	0.408	56.837%		
2	16:07:19	0.015	0.015	0.522	0.425	0.483	59.195%		
3	16:07:27	0.014	0.040	0.487	0.562	0.487	61.225%		
x		0.020	0.029	0.487	0.443	0.459	59.085%		
σ		0.010	0.013	0.035	0.111	0.045	2.196%		
%RSD		49.420	43.840	7.150	25.000	9.766	3.717		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:18	84.188%	-0.042	10.540	11.020	0.000	70200.000	153.700	157.900
2	16:12:26	76.518%	-0.054	11.210	11.430	0.000	77090.000	175.200	161.900
3	16:12:34	79.676%	-0.035	11.480	10.610	0.000	74300.000	161.600	162.000
x		80.127%	-0.044	11.080	11.020	0.000	73860.000	163.500	160.600
σ		3.855%	0.010	0.487	0.414	0.000	3466.000	10.860	2.335
%RSD		4.811	21.850	4.392	3.755	0.000	4.692	6.639	1.454
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:18	2.175	66.480	0.000	159.300	793.300	773.300	73.540%	-0.010
2	16:12:26	2.217	74.570	0.000	165.600	798.200	808.800	71.294%	-0.033
3	16:12:34	1.812	74.370	0.000	164.400	853.900	795.900	71.150%	0.075
x		2.068	71.810	0.000	163.100	815.200	792.700	71.995%	0.011
σ		0.223	4.612	0.000	3.348	33.690	17.950	1.340%	0.057
%RSD		10.770	6.423	0.000	2.052	4.133	2.264	1.862	541.700
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:18	-0.217	0.197	12.750	21.710	21.500	0.443	1.576	0.191
2	16:12:26	-0.217	0.147	12.970	21.990	22.330	0.510	2.026	0.202
3	16:12:34	0.319	0.175	13.230	21.710	27.410	0.589	1.529	0.235
x		-0.039	0.173	12.980	21.800	23.750	0.514	1.711	0.209
σ		0.310	0.025	0.239	0.164	3.195	0.073	0.274	0.023
%RSD		803.000	14.270	1.839	0.751	13.450	14.190	16.040	10.880
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:18	0.110	1.273	1.149	0.152	37.190	47.140	0.000	3.583
2	16:12:26	0.404	1.378	1.527	0.120	35.660	45.880	0.000	3.560
3	16:12:34	0.174	1.169	1.166	0.126	36.470	47.010	0.000	3.551
x		0.229	1.274	1.281	0.133	36.440	46.680	0.000	3.565
σ		0.154	0.104	0.213	0.017	0.767	0.690	0.000	0.017
%RSD		67.280	8.193	16.660	12.800	2.105	1.479	0.000	0.469
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:18	77.118%	0.235	0.354	71.215%	-0.329	-0.371	-0.004	-0.003
2	16:12:26	77.498%	0.181	0.302	72.523%	-0.340	-0.379	-0.005	0.017
3	16:12:34	77.814%	0.023	0.249	72.624%	-0.330	-0.362	-0.004	0.003
x		77.477%	0.146	0.302	72.121%	-0.333	-0.371	-0.004	0.006
σ		0.348%	0.110	0.052	0.786%	0.006	0.009	0.000	0.010
%RSD		0.450	75.290	17.300	1.090	1.798	2.301	1.362	174.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:12:18	73.346%	-0.215	-0.044	-0.142	0.660	0.758	80.665%	81.337%
2	16:12:26	74.630%	-0.500	-0.052	-0.099	0.492	0.499	81.782%	83.051%
3	16:12:34	75.189%	-0.384	-0.004	-0.128	0.682	0.519	82.765%	83.807%
x		74.389%	-0.366	-0.033	-0.123	0.611	0.592	81.738%	82.732%
σ		0.945%	0.143	0.026	0.022	0.104	0.144	1.051%	1.265%
%RSD		1.270	39.130	77.610	17.620	17.030	24.350	1.285	1.529
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:12:18	0.003	-0.000	-0.010	-0.015	0.001	74.655%		
2	16:12:26	-0.014	-0.003	-0.018	-0.019	-0.003	76.102%		
3	16:12:34	0.011	-0.013	0.007	-0.004	0.004	76.763%		
x		0.000	-0.005	-0.007	-0.012	0.000	75.840%		
σ		0.013	0.007	0.013	0.008	0.004	1.078%		
%RSD		18180.000	129.000	189.100	62.730	833.000	1.422		

CCV 1558997 5/8/2015 4:18:18 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:24	86.153%	90.570	86.220	86.890	0.000	50850.000	50720.000	51180.000
2	16:17:32	80.337%	100.200	89.710	96.200	0.000	51190.000	50840.000	51400.000
3	16:17:39	80.792%	100.300	89.850	89.920	0.000	53940.000	51420.000	52590.000
x		82.427%	97.002%	88.595%	91.002%	0.000	103.987%	101.983%	103.450%
σ		3.235%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		3.924	5.746	2.325	5.214	0.000	3.258	0.732	1.466
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:24	484.800	5452.000	0.000	50310.000	48040.000	47220.000	81.865%	95.710
2	16:17:32	508.000	5862.000	0.000	51200.000	49000.000	47960.000	80.282%	103.400
3	16:17:39	516.600	5992.000	0.000	53470.000	50200.000	48410.000	79.876%	105.400
x		100.630%	115.368%	0.000	103.326%	98.161%	95.719%	80.675%	101.485%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.051%	n/a
%RSD		3.268	4.887	0.000	3.155	2.211	1.259	1.303	5.031
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:24	97.000	100.900	513.400	25000.000	24620.000	101.600	103.900	106.100
2	16:17:32	101.200	103.400	523.500	25430.000	25000.000	103.300	103.700	104.900
3	16:17:39	101.800	103.900	537.300	25630.000	24960.000	103.800	108.700	106.500
x		99.982%	102.718%	104.945%	101.421%	99.436%	102.904%	105.461%	105.822%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.606	1.576	2.292	1.260	0.835	1.129	2.682	0.755
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:24	105.300	104.600	107.200	104.100	100.800	105.300	0.000	95.780
2	16:17:32	102.300	106.600	108.100	103.500	104.200	101.700	0.000	96.030
3	16:17:39	106.300	106.300	110.000	104.500	108.500	106.100	0.000	95.680
x		104.629%	105.838%	108.432%	104.044%	104.498%	104.340%	0.000	95.828%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.949	0.984	1.336	0.482	3.684	2.253	0.000	0.185
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:24	85.281%	99.630	103.900	75.267%	105.600	104.200	104.800	108.500
2	16:17:32	87.623%	104.500	103.900	76.456%	105.000	103.900	103.300	109.300
3	16:17:39	88.091%	105.900	105.700	76.024%	102.600	103.800	103.800	105.600
x		86.998%	103.335%	104.504%	75.916%	104.384%	103.946%	103.954%	107.766%
σ		1.505%	n/a	n/a	0.602%	n/a	n/a	n/a	n/a
%RSD		1.730	3.171	0.990	0.793	1.537	0.202	0.716	1.812
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:17:24	78.049%	103.000	103.300	104.400	100.500	98.100	83.892%	83.386%
2	16:17:32	79.072%	100.600	103.100	102.200	98.050	102.700	84.585%	84.606%
3	16:17:39	79.744%	101.200	101.700	102.400	101.000	101.300	85.290%	85.246%
x		78.955%	101.606%	102.676%	103.020%	99.835%	100.701%	84.589%	84.413%
σ		0.853%	n/a	n/a	n/a	n/a	n/a	0.699%	0.945%
%RSD		1.081	1.212	0.842	1.186	1.566	2.340	0.827	1.119
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:17:24	101.200	101.800	101.300	103.500	102.700	71.606%		
2	16:17:32	99.860	99.640	100.900	101.600	101.100	71.372%		
3	16:17:39	103.100	101.800	100.600	100.700	100.800	69.067%		
x		101.412%	101.053%	100.928%	101.926%	101.521%	70.682%		
σ		n/a	n/a	n/a	n/a	n/a	1.403%		
%RSD		1.616	1.215	0.387	1.439	1.007	1.985		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:26:22	101.717%	-0.041	0.476	0.404	0.000	2.439	2.060	2.235
2	16:26:30	108.293%	-0.074	0.375	0.533	0.000	1.931	1.657	1.943
3	16:26:37	102.559%	-0.044	0.394	0.349	0.000	2.625	1.728	1.830
x		104.190%	-0.053	0.415	0.429	0.000	2.332	1.815	2.003
σ		3.578%	0.018	0.054	0.095	0.000	0.359	0.215	0.209
%RSD		3.434	34.290	13.000	22.050	0.000	15.400	11.840	10.430
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:26:22	0.783	-17.820	0.000	7.078	4.518	8.024	91.777%	0.027
2	16:26:30	0.892	-16.420	0.000	6.534	1.280	7.365	93.276%	0.065
3	16:26:37	0.976	-16.370	0.000	6.862	1.529	8.693	91.728%	0.048
x		0.884	-16.870	0.000	6.825	2.443	8.028	92.260%	0.046
σ		0.097	0.825	0.000	0.274	1.802	0.664	0.880%	0.019
%RSD		10.960	4.893	0.000	4.012	73.770	8.275	0.954	41.580
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:26:22	0.024	0.001	0.048	6.137	5.422	0.007	-0.009	0.113
2	16:26:30	-0.022	0.006	0.059	5.021	2.863	0.005	0.009	0.025
3	16:26:37	0.022	0.001	0.059	4.649	4.074	0.005	-0.010	0.043
x		0.008	0.002	0.055	5.269	4.120	0.006	-0.003	0.060
σ		0.026	0.003	0.006	0.774	1.280	0.001	0.010	0.047
%RSD		326.000	127.800	11.430	14.700	31.070	19.550	315.300	77.460
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:26:22	0.010	0.767	0.410	-0.045	-0.023	1.092	0.000	0.024
2	16:26:30	-0.032	0.432	0.661	-0.040	0.093	0.673	0.000	0.012
3	16:26:37	0.023	0.575	1.008	-0.042	0.004	0.328	0.000	0.001
x		0.000	0.591	0.693	-0.042	0.025	0.698	0.000	0.012
σ		0.029	0.168	0.300	0.002	0.061	0.382	0.000	0.011
%RSD		10040.000	28.470	43.320	5.254	246.500	54.780	0.000	89.560
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:26:22	88.229%	0.355	0.376	84.222%	-0.284	-0.344	-0.004	0.025
2	16:26:30	89.591%	0.284	0.437	85.687%	-0.263	-0.360	-0.005	0.017
3	16:26:37	93.159%	0.077	0.199	87.601%	-0.287	-0.364	-0.005	0.011
x		90.326%	0.239	0.338	85.837%	-0.278	-0.356	-0.005	0.018
σ		2.546%	0.144	0.124	1.695%	0.013	0.011	0.000	0.007
%RSD		2.819	60.480	36.650	1.974	4.734	2.988	0.662	39.180
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:26:22	84.775%	-0.409	0.013	-0.126	0.015	0.093	86.753%	87.232%
2	16:26:30	87.915%	-0.652	0.032	-0.123	-0.020	0.003	89.553%	89.690%
3	16:26:37	88.549%	-0.629	0.006	-0.178	0.014	0.024	90.313%	91.075%
x		87.080%	-0.564	0.017	-0.142	0.003	0.040	88.873%	89.332%
σ		2.021%	0.134	0.013	0.031	0.020	0.047	1.875%	1.947%
%RSD		2.321	23.790	77.910	21.600	710.900	118.700	2.109	2.179
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:26:22	0.013	0.027	0.012	-0.006	0.007	82.728%		
2	16:26:30	0.034	0.045	0.020	0.038	0.027	85.433%		
3	16:26:37	0.021	0.020	0.010	-0.004	0.017	86.772%		
x		0.023	0.031	0.014	0.009	0.017	84.977%		
σ		0.011	0.013	0.006	0.025	0.010	2.060%		
%RSD		46.920	41.520	38.960	264.100	57.880	2.424		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:32	81.477%	-0.055	11.560	11.180	0.000	81520.000	161.600	154.500
2	16:31:39	80.423%	-0.046	11.130	11.100	0.000	80470.000	162.800	158.300
3	16:31:47	75.414%	-0.022	12.270	12.260	0.000	82730.000	167.200	163.500
x		79.105%	-0.041	11.650	11.510	0.000	81570.000	163.900	158.800
σ		3.239%	0.018	0.572	0.651	0.000	1127.000	2.970	4.509
%RSD		4.095	42.590	4.911	5.655	0.000	1.382	1.812	2.839
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:32	2.769	69.510	0.000	187.000	787.100	720.300	75.604%	0.317
2	16:31:39	3.057	77.340	0.000	191.100	763.000	742.600	76.417%	0.060
3	16:31:47	3.036	85.970	0.000	198.000	693.100	771.400	73.719%	0.381
x		2.954	77.600	0.000	192.000	747.700	744.800	75.246%	0.253
σ		0.160	8.230	0.000	5.596	48.820	25.620	1.384%	0.170
%RSD		5.429	10.600	0.000	2.914	6.529	3.441	1.839	67.150
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:32	-0.149	0.128	0.542	23.430	28.030	0.513	1.482	0.325
2	16:31:39	-0.186	0.175	0.574	22.530	27.010	0.499	1.433	0.307
3	16:31:47	-0.156	0.147	0.605	22.800	21.670	0.501	1.399	0.365
x		-0.164	0.150	0.574	22.920	25.570	0.504	1.438	0.332
σ		0.020	0.023	0.031	0.464	3.417	0.007	0.042	0.030
%RSD		11.940	15.480	5.484	2.023	13.360	1.427	2.907	9.025
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:32	0.271	1.474	1.671	0.096	29.690	41.370	0.000	3.651
2	16:31:39	0.490	1.518	1.137	0.110	30.500	41.360	0.000	3.359
3	16:31:47	0.462	1.182	1.465	0.072	31.350	42.140	0.000	3.675
x		0.408	1.391	1.424	0.093	30.510	41.630	0.000	3.562
σ		0.119	0.182	0.269	0.019	0.832	0.448	0.000	0.176
%RSD		29.210	13.100	18.900	20.830	2.728	1.076	0.000	4.935
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:32	76.972%	0.142	0.134	74.681%	-0.334	-0.386	0.028	0.010
2	16:31:39	79.543%	0.064	0.094	74.963%	-0.334	-0.393	-0.004	-0.004
3	16:31:47	80.381%	0.040	0.101	74.569%	-0.347	-0.380	-0.005	0.009
x		78.966%	0.082	0.110	74.738%	-0.338	-0.386	0.006	0.005
σ		1.776%	0.053	0.021	0.203%	0.008	0.007	0.019	0.008
%RSD		2.250	64.800	19.460	0.271	2.241	1.728	294.400	159.200
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:32	75.896%	-0.837	-0.033	-0.164	0.173	0.247	83.492%	83.647%
2	16:31:39	77.940%	-0.711	-0.008	-0.115	0.246	0.172	83.918%	85.572%
3	16:31:47	77.957%	-0.814	-0.056	-0.175	0.323	0.244	83.216%	84.437%
x		77.264%	-0.787	-0.033	-0.151	0.247	0.221	83.542%	84.552%
σ		1.185%	0.067	0.024	0.032	0.075	0.043	0.354%	0.968%
%RSD		1.534	8.547	73.120	21.170	30.350	19.390	0.424	1.144
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:31:32	0.004	0.010	0.069	0.079	0.078	79.838%		
2	16:31:39	0.009	0.002	0.064	0.053	0.080	80.692%		
3	16:31:47	0.022	-0.008	0.051	0.085	0.082	80.702%		
x		0.012	0.001	0.061	0.072	0.080	80.411%		
σ		0.009	0.009	0.009	0.017	0.002	0.496%		
%RSD		80.260	717.900	15.460	23.960	2.428	0.617		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:36:41	75.911%	-0.039	11.430	10.550	0.000	88880.000	190.100	188.100
2	16:36:49	78.078%	-0.055	10.120	9.685	0.000	83000.000	187.400	186.700
3	16:36:56	77.593%	-0.063	10.150	9.861	0.000	84840.000	192.800	188.300
x		77.194%	-0.053	10.560	10.030	0.000	85570.000	190.100	187.700
σ		1.137%	0.012	0.749	0.459	0.000	3006.000	2.683	0.855
%RSD		1.473	23.220	7.090	4.579	0.000	3.512	1.411	0.456
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:36:41	2.131	68.840	0.000	32.420	1227.000	1203.000	73.508%	-0.010
2	16:36:49	2.379	64.630	0.000	31.230	1304.000	1230.000	74.287%	-0.038
3	16:36:56	2.525	68.790	0.000	31.160	1306.000	1278.000	74.775%	0.013
x		2.345	67.420	0.000	31.600	1279.000	1237.000	74.190%	-0.012
σ		0.199	2.415	0.000	0.709	45.250	38.020	0.639%	0.025
%RSD		8.496	3.583	0.000	2.244	3.538	3.073	0.862	220.400
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:36:41	-0.252	0.125	8.383	24.660	30.530	0.725	0.359	0.070
2	16:36:49	-0.137	0.119	8.547	25.330	31.070	0.744	0.420	0.040
3	16:36:56	0.211	0.115	8.762	26.300	26.490	0.647	0.253	0.043
x		-0.059	0.120	8.564	25.430	29.360	0.705	0.344	0.051
σ		0.241	0.005	0.190	0.826	2.502	0.052	0.084	0.017
%RSD		405.800	4.464	2.216	3.248	8.520	7.315	24.460	32.710
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:36:41	0.131	1.487	0.955	0.093	15.400	20.760	0.000	4.554
2	16:36:49	0.089	1.179	1.023	0.056	17.130	21.430	0.000	4.801
3	16:36:56	0.204	0.930	0.828	0.042	16.020	21.600	0.000	4.522
x		0.141	1.199	0.935	0.064	16.180	21.260	0.000	4.626
σ		0.058	0.279	0.099	0.026	0.879	0.446	0.000	0.152
%RSD		41.260	23.270	10.570	41.320	5.433	2.098	0.000	3.296
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:36:41	76.255%	-0.072	0.046	71.446%	-0.332	-0.382	-0.004	0.004
2	16:36:49	77.684%	-0.036	0.007	71.230%	-0.336	-0.382	0.012	-0.003
3	16:36:56	77.798%	0.038	0.061	70.516%	-0.339	-0.410	-0.005	-0.017
x		77.246%	-0.023	0.038	71.064%	-0.336	-0.391	0.001	-0.005
σ		0.860%	0.056	0.028	0.486%	0.003	0.016	0.010	0.011
%RSD		1.113	240.700	73.280	0.684	0.997	4.131	835.100	202.300
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:36:41	73.094%	-0.871	-0.014	-0.178	0.100	0.206	80.965%	82.471%
2	16:36:49	74.260%	-0.719	0.012	-0.098	0.258	0.130	80.626%	82.569%
3	16:36:56	73.226%	-0.780	-0.072	-0.187	0.060	0.157	80.110%	80.897%
x		73.527%	-0.790	-0.025	-0.155	0.139	0.165	80.567%	81.979%
σ		0.639%	0.076	0.043	0.049	0.105	0.039	0.430%	0.938%
%RSD		0.869	9.652	174.700	31.690	75.270	23.470	0.534	1.144
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:36:41	0.008	0.003	0.022	-0.009	0.019	70.467%		
2	16:36:49	-0.022	-0.011	0.006	0.007	0.008	70.134%		
3	16:36:56	0.009	0.006	0.024	0.009	0.016	67.837%		
x		-0.001	-0.001	0.017	0.002	0.014	69.479%		
σ		0.017	0.009	0.010	0.010	0.005	1.432%		
%RSD		1302.000	1556.000	54.820	455.500	36.890	2.061		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:41:49	64.324%	-0.075	50.090	52.250	0.000	956500.000	131600.000	132300.000
2	16:41:57	63.304%	-0.040	50.430	52.710	0.000	969600.000	135300.000	135600.000
3	16:42:04	59.793%	-0.042	52.840	49.960	0.000	999500.000	139100.000	143100.000
x		62.474%	-0.052	51.120	51.640	0.000	975200.000	135400.000	137000.000
σ		2.377%	0.019	1.500	1.474	0.000	22050.000	3758.000	5560.000
%RSD		3.805	37.130	2.935	2.854	0.000	2.261	2.776	4.058
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:41:49	2.812	4793.000	0.000	5078.000	389100.000	382900.000	63.654%	0.978
2	16:41:57	2.506	4791.000	0.000	5274.000	400100.000	394000.000	61.698%	1.138
3	16:42:04	2.790	5220.000	0.000	5132.000	407900.000	394600.000	61.768%	0.981
x		2.703	4934.000	0.000	5161.000	399000.000	390500.000	62.373%	1.032
σ		0.171	247.000	0.000	101.200	9459.000	6569.000	1.110%	0.092
%RSD		6.310	5.007	0.000	1.961	2.370	1.682	1.779	8.883
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:41:49	0.240	0.490	0.805	-4.552	1552.000	0.468	1.339	0.511
2	16:41:57	-0.424	0.570	0.863	-4.602	1520.000	0.423	1.889	0.565
3	16:42:04	-0.059	0.524	0.784	-5.236	1540.000	0.494	1.340	0.553
x		-0.081	0.528	0.817	-4.796	1538.000	0.462	1.522	0.543
σ		0.332	0.040	0.041	0.382	16.290	0.036	0.317	0.028
%RSD		408.900	7.625	4.983	7.954	1.060	7.774	20.840	5.236
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:41:49	0.861	7.522	7.121	1.106	0.998	4.472	0.000	3460.000
2	16:41:57	0.980	7.906	7.964	0.931	1.343	3.595	0.000	3401.000
3	16:42:04	0.932	7.722	7.322	1.037	1.259	6.411	0.000	3411.000
x		0.924	7.717	7.469	1.025	1.200	4.826	0.000	3424.000
σ		0.060	0.192	0.440	0.088	0.180	1.441	0.000	31.490
%RSD		6.510	2.492	5.891	8.624	15.000	29.860	0.000	0.920
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:41:49	65.736%	0.789	0.894	51.131%	-0.148	-0.303	-0.004	0.020
2	16:41:57	67.680%	0.740	0.846	53.212%	-0.203	-0.328	0.017	0.029
3	16:42:04	67.901%	0.674	0.838	53.752%	-0.237	-0.259	0.059	0.010
x		67.106%	0.734	0.860	52.699%	-0.196	-0.297	0.024	0.020
σ		1.191%	0.057	0.030	1.384%	0.045	0.035	0.032	0.009
%RSD		1.775	7.824	3.485	2.626	22.960	11.740	134.600	48.170
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:41:49	59.052%	-0.825	-0.046	-0.033	174.700	177.900	66.416%	68.237%
2	16:41:57	58.992%	-0.702	-0.029	-0.057	182.300	181.600	69.388%	69.715%
3	16:42:04	61.362%	-0.944	0.001	-0.108	180.100	180.300	70.671%	71.483%
x		59.802%	-0.823	-0.025	-0.066	179.000	179.900	68.825%	69.812%
σ		1.351%	0.121	0.024	0.038	3.883	1.876	2.183%	1.625%
%RSD		2.259	14.710	97.170	57.910	2.169	1.042	3.172	2.328
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:41:49	0.018	0.016	0.326	0.262	0.254	45.713%		
2	16:41:57	-0.013	0.013	0.284	0.238	0.278	47.653%		
3	16:42:04	-0.010	0.008	0.239	0.181	0.241	49.558%		
x		-0.002	0.012	0.283	0.227	0.258	47.641%		
σ		0.017	0.004	0.044	0.041	0.019	1.923%		
%RSD		1104.000	34.030	15.420	18.290	7.205	4.036		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:57	71.154%	-0.004	22.760	22.460	0.000	214700.000	10860.000	11100.000
2	16:47:05	71.991%	-0.023	22.600	22.580	0.000	216800.000	10660.000	10600.000
3	16:47:12	69.929%	-0.029	21.230	22.320	0.000	221000.000	10950.000	11090.000
x		71.025%	-0.018	22.200	22.450	0.000	217500.000	10830.000	10930.000
σ		1.037%	0.013	0.841	0.129	0.000	3204.000	145.900	283.600
%RSD		1.460	72.190	3.787	0.573	0.000	1.473	1.348	2.594
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:57	92.650	2182.000	0.000	12080.000	58680.000	58950.000	74.443%	0.867
2	16:47:05	88.830	2132.000	0.000	12060.000	59970.000	59330.000	74.219%	0.689
3	16:47:12	93.880	2269.000	0.000	12180.000	61910.000	61380.000	70.021%	0.794
x		91.790	2194.000	0.000	12100.000	60190.000	59890.000	72.895%	0.783
σ		2.634	69.130	0.000	63.240	1624.000	1310.000	2.491%	0.090
%RSD		2.870	3.150	0.000	0.523	2.699	2.188	3.417	11.450
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:57	0.214	0.394	221.600	326.400	552.800	0.977	1.477	13.020
2	16:47:05	-0.126	0.416	223.400	329.600	547.600	1.058	1.691	12.810
3	16:47:12	-0.097	0.375	236.100	347.900	529.400	1.038	1.817	13.190
x		-0.003	0.395	227.100	334.700	543.300	1.025	1.662	13.010
σ		0.188	0.021	7.895	11.590	12.310	0.042	0.172	0.190
%RSD		5986.000	5.222	3.477	3.463	2.265	4.110	10.330	1.458
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:57	13.370	28.890	27.280	1.252	1.142	3.543	0.000	283.500
2	16:47:05	12.700	27.930	28.060	1.314	0.720	2.739	0.000	286.300
3	16:47:12	13.340	30.470	30.130	1.145	1.123	2.151	0.000	281.000
x		13.140	29.090	28.490	1.237	0.995	2.811	0.000	283.600
σ		0.383	1.284	1.471	0.086	0.238	0.699	0.000	2.663
%RSD		2.914	4.413	5.164	6.931	23.940	24.850	0.000	0.939
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:57	75.147%	29.010	29.870	66.904%	-0.225	-0.277	0.085	0.050
2	16:47:05	75.249%	30.470	30.170	67.159%	-0.205	-0.289	0.048	0.092
3	16:47:12	75.385%	29.860	30.360	66.932%	-0.263	-0.278	0.084	0.091
x		75.260%	29.780	30.130	66.998%	-0.231	-0.281	0.072	0.078
σ		0.119%	0.735	0.248	0.140%	0.029	0.007	0.021	0.024
%RSD		0.159	2.468	0.823	0.208	12.640	2.397	28.600	31.320
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:46:57	70.273%	-0.927	0.193	0.174	63.500	62.580	80.136%	80.398%
2	16:47:05	71.449%	-1.173	0.218	0.280	62.030	63.110	80.522%	81.187%
3	16:47:12	71.798%	-1.054	0.253	0.185	63.240	64.850	80.654%	81.794%
x		71.174%	-1.051	0.221	0.213	62.920	63.510	80.438%	81.126%
σ		0.799%	0.123	0.030	0.058	0.781	1.190	0.269%	0.700%
%RSD		1.123	11.680	13.570	27.270	1.241	1.874	0.334	0.863
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:46:57	0.012	0.009	0.290	0.213	0.273	69.273%		
2	16:47:05	-0.007	0.015	0.355	0.341	0.338	70.422%		
3	16:47:12	-0.004	0.012	0.381	0.315	0.325	71.506%		
x		0.000	0.012	0.342	0.290	0.312	70.400%		
σ		0.010	0.003	0.047	0.068	0.034	1.117%		
%RSD		3156.000	22.900	13.720	23.340	10.980	1.586		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:52:05	62.904%	0.032	195.100	199.500	0.000	129400.000	21700.000	22650.000
2	16:52:13	64.609%	-0.022	221.600	203.200	0.000	130500.000	21780.000	22110.000
3	16:52:20	60.482%	0.056	218.100	217.400	0.000	138900.000	22870.000	23240.000
x		62.665%	0.022	211.600	206.700	0.000	132900.000	22120.000	22660.000
σ		2.074%	0.040	14.430	9.484	0.000	5216.000	654.300	564.300
%RSD		3.309	177.900	6.821	4.589	0.000	3.923	2.959	2.490
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:52:05	693.600	6312.000	0.000	13210.000	102800.000	103800.000	64.203%	22.260
2	16:52:13	681.600	6154.000	0.000	13010.000	102400.000	102200.000	66.124%	28.690
3	16:52:20	710.700	6265.000	0.000	12600.000	100500.000	100900.000	65.617%	31.380
x		695.300	6244.000	0.000	12940.000	101900.000	102300.000	65.315%	27.440
σ		14.580	81.570	0.000	308.600	1222.000	1447.000	0.995%	4.684
%RSD		2.097	1.306	0.000	2.384	1.199	1.414	1.524	17.070
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:52:05	1.767	3.651	515.100	1338.000	1601.000	1.082	6.194	53.840
2	16:52:13	1.929	3.682	516.900	1319.000	1662.000	1.247	6.485	51.430
3	16:52:20	1.737	3.575	506.200	1354.000	1556.000	1.268	6.711	54.810
x		1.811	3.636	512.700	1337.000	1606.000	1.199	6.463	53.360
σ		0.103	0.055	5.749	17.300	53.290	0.102	0.259	1.739
%RSD		5.705	1.511	1.121	1.294	3.318	8.498	4.010	3.259
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:52:05	55.620	414.300	414.400	1.443	0.515	6.989	0.000	519.200
2	16:52:13	55.150	419.100	419.700	1.332	0.924	7.487	0.000	522.800
3	16:52:20	53.900	416.700	415.700	1.149	0.736	6.957	0.000	525.800
x		54.890	416.700	416.600	1.308	0.725	7.144	0.000	522.600
σ		0.886	2.380	2.756	0.148	0.205	0.297	0.000	3.288
%RSD		1.614	0.571	0.662	11.320	28.230	4.159	0.000	0.629
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:52:05	71.648%	1.969	2.020	65.498%	0.124	0.067	0.213	0.214
2	16:52:13	71.610%	1.859	2.295	63.960%	0.098	0.035	0.199	0.309
3	16:52:20	71.773%	1.831	1.940	63.851%	0.103	0.098	0.181	0.379
x		71.677%	1.887	2.085	64.436%	0.108	0.067	0.197	0.301
σ		0.085%	0.073	0.187	0.921%	0.014	0.032	0.016	0.083
%RSD		0.119	3.868	8.947	1.430	13.190	47.070	8.050	27.650
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:52:05	69.675%	1.716	0.410	0.180	96.800	98.120	77.235%	78.549%
2	16:52:13	68.331%	1.160	0.388	0.236	97.890	98.870	77.867%	78.660%
3	16:52:20	68.007%	1.557	0.344	0.336	96.570	98.480	77.332%	78.696%
x		68.671%	1.478	0.381	0.251	97.080	98.490	77.478%	78.635%
σ		0.885%	0.287	0.034	0.079	0.705	0.372	0.340%	0.076%
%RSD		1.288	19.400	8.801	31.470	0.726	0.378	0.439	0.097
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:52:05	-0.025	-0.016	3.645	3.223	3.404	73.131%		
2	16:52:13	-0.013	-0.007	3.447	3.301	3.279	71.264%		
3	16:52:20	-0.000	-0.006	3.698	3.053	3.364	69.951%		
x		-0.013	-0.010	3.597	3.192	3.349	71.449%		
σ		0.012	0.006	0.132	0.127	0.064	1.598%		
%RSD		95.780	57.860	3.675	3.967	1.909	2.237		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:57:11	68.923%	-0.034	171.900	166.100	0.000	108700.000	18480.000	19860.000
2	16:57:19	64.561%	-0.038	171.200	169.200	0.000	115300.000	20720.000	20210.000
3	16:57:26	64.571%	-0.041	166.700	168.900	0.000	115200.000	19140.000	20450.000
x		66.019%	-0.038	170.000	168.100	0.000	113100.000	19450.000	20170.000
σ		2.515%	0.004	2.837	1.724	0.000	3778.000	1149.000	294.200
%RSD		3.810	9.833	1.669	1.026	0.000	3.342	5.907	1.458
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:57:11	12.280	5296.000	0.000	12790.000	84560.000	85380.000	66.822%	4.411
2	16:57:19	13.510	5295.000	0.000	13210.000	85940.000	87080.000	66.167%	4.223
3	16:57:26	13.150	5455.000	0.000	13800.000	87680.000	91470.000	63.567%	5.250
x		12.980	5349.000	0.000	13270.000	86060.000	87980.000	65.519%	4.628
σ		0.635	92.180	0.000	506.400	1567.000	3143.000	1.722%	0.547
%RSD		4.893	1.723	0.000	3.817	1.820	3.572	2.628	11.810
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:57:11	0.692	1.775	299.400	65.520	424.400	0.759	4.480	3.988
2	16:57:19	0.493	1.829	315.600	64.850	399.100	0.700	3.898	4.165
3	16:57:26	0.399	1.931	325.700	64.890	411.100	0.795	4.659	3.725
x		0.528	1.845	313.600	65.090	411.500	0.752	4.346	3.959
σ		0.150	0.079	13.280	0.379	12.690	0.048	0.398	0.221
%RSD		28.360	4.303	4.236	0.582	3.084	6.375	9.164	5.590
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:57:11	4.583	86.850	87.290	0.615	0.299	6.766	0.000	469.000
2	16:57:19	4.198	88.470	85.950	0.695	0.219	5.107	0.000	469.600
3	16:57:26	4.415	87.710	87.720	0.709	0.226	7.881	0.000	472.400
x		4.399	87.680	86.980	0.673	0.248	6.585	0.000	470.400
σ		0.193	0.810	0.924	0.051	0.044	1.396	0.000	1.838
%RSD		4.381	0.924	1.062	7.543	17.840	21.200	0.000	0.391
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:57:11	67.515%	2.104	1.928	58.326%	-0.302	-0.367	0.036	0.001
2	16:57:19	68.318%	2.094	1.996	58.868%	-0.331	-0.359	0.056	0.043
3	16:57:26	66.974%	1.610	2.103	58.047%	-0.335	-0.397	0.036	0.018
x		67.602%	1.936	2.009	58.414%	-0.323	-0.375	0.043	0.021
σ		0.676%	0.283	0.088	0.418%	0.018	0.020	0.012	0.021
%RSD		1.000	14.600	4.393	0.715	5.648	5.303	26.890	101.800
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:57:11	61.443%	-0.955	0.173	0.120	56.530	57.190	69.646%	70.073%
2	16:57:19	61.970%	-0.896	0.333	0.128	56.160	57.080	69.798%	70.727%
3	16:57:26	62.102%	-0.790	0.212	0.180	56.260	54.470	70.256%	70.013%
x		61.838%	-0.880	0.239	0.143	56.320	56.250	69.900%	70.271%
σ		0.349%	0.084	0.083	0.033	0.195	1.538	0.318%	0.396%
%RSD		0.564	9.515	34.740	22.980	0.345	2.735	0.454	0.563
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	16:57:11	-0.023	-0.015	0.269	0.153	0.236	54.070%		
2	16:57:19	-0.015	-0.018	0.297	0.214	0.239	53.603%		
3	16:57:26	-0.019	-0.015	0.219	0.295	0.284	52.658%		
x		-0.019	-0.016	0.262	0.221	0.253	53.444%		
σ		0.004	0.002	0.039	0.071	0.027	0.719%		
%RSD		20.490	11.630	15.010	32.280	10.620	1.346		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:17	28.025%	0.001	582.100	602.100	0.000	2042000.000	98720.000	96810.000
2	17:02:25	29.077%	0.027	562.700	558.100	0.000	1994000.000	95960.000	94390.000
3	17:02:32	31.514%	0.070	481.700	498.700	0.000	1946000.000	93570.000	91780.000
x		29.538%	0.033	542.100	553.000	0.000	1994000.000	96080.000	94320.000
σ		1.790%	0.035	53.270	51.900	0.000	48080.000	2577.000	2513.000
%RSD		6.059	106.200	9.826	9.386	0.000	2.411	2.682	2.664
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:17	259.800	9353.000	0.000	21430.000	484700.000	474000.000	60.866%	0.997
2	17:02:25	259.200	9280.000	0.000	20750.000	478700.000	474500.000	60.526%	1.226
3	17:02:32	249.400	9056.000	0.000	21350.000	520400.000	477700.000	58.705%	0.941
x		256.200	9230.000	0.000	21170.000	494600.000	475400.000	60.032%	1.055
σ		5.834	154.900	0.000	369.900	22530.000	2001.000	1.162%	0.151
%RSD		2.278	1.678	0.000	1.747	4.554	0.421	1.935	14.330
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:17	0.409	0.478	1422.000	153.900	2003.000	0.635	3.757	1.685
2	17:02:25	0.242	0.432	1435.000	152.300	2013.000	0.577	3.593	1.716
3	17:02:32	0.244	0.476	1482.000	181.900	1940.000	0.569	3.617	1.899
x		0.298	0.462	1446.000	162.700	1985.000	0.594	3.656	1.767
σ		0.096	0.026	31.570	16.650	39.330	0.036	0.088	0.116
%RSD		32.180	5.613	2.183	10.230	1.981	6.036	2.414	6.573
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:17	2.289	12.670	14.950	124.700	1.879	450.300	0.000	22640.000
2	17:02:25	2.067	12.050	12.020	124.600	2.155	475.800	0.000	22540.000
3	17:02:32	2.674	12.700	12.280	123.300	2.485	463.800	0.000	22350.000
x		2.343	12.470	13.080	124.200	2.173	463.300	0.000	22510.000
σ		0.307	0.369	1.623	0.749	0.303	12.760	0.000	148.300
%RSD		13.110	2.956	12.410	0.603	13.960	2.754	0.000	0.659
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:17	59.715%	14.510	14.570	44.263%	-0.344	-0.383	0.046	0.027
2	17:02:25	60.984%	14.200	15.430	45.577%	-0.334	-0.389	-0.004	-0.004
3	17:02:32	62.147%	14.360	15.360	46.800%	-0.315	-0.385	-0.004	0.044
x		60.948%	14.360	15.120	45.546%	-0.331	-0.386	0.012	0.022
σ		1.216%	0.157	0.476	1.269%	0.015	0.003	0.029	0.024
%RSD		1.996	1.094	3.148	2.786	4.533	0.807	235.100	110.400
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:02:17	51.384%	-1.174	0.151	0.344	406.500	417.000	62.656%	63.441%
2	17:02:25	52.856%	-1.086	0.302	0.229	418.400	418.500	63.089%	64.057%
3	17:02:32	53.872%	-1.096	0.361	0.354	417.600	413.800	64.596%	66.418%
x		52.704%	-1.119	0.271	0.309	414.200	416.400	63.447%	64.639%
σ		1.251%	0.048	0.109	0.069	6.618	2.400	1.019%	1.572%
%RSD		2.374	4.322	40.070	22.440	1.598	0.577	1.605	2.431
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:02:17	0.100	0.136	0.412	0.263	0.334	43.621%		
2	17:02:25	0.116	0.093	0.349	0.342	0.387	44.451%		
3	17:02:32	0.081	0.118	0.355	0.323	0.372	45.920%		
x		0.099	0.116	0.372	0.309	0.364	44.664%		
σ		0.018	0.021	0.035	0.041	0.027	1.164%		
%RSD		18.110	18.490	9.386	13.320	7.473	2.606		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:23	56.243%	0.001	185.500	202.400	0.000	267800.000	47620.000	48860.000
2	17:07:31	60.590%	0.028	176.200	181.300	0.000	256100.000	44750.000	46240.000
3	17:07:38	55.874%	-0.041	183.800	187.400	0.000	273100.000	47850.000	48840.000
x		57.569%	-0.004	181.900	190.300	0.000	265700.000	46740.000	47980.000
σ		2.623%	0.034	4.945	10.870	0.000	8719.000	1725.000	1507.000
%RSD		4.556	866.400	2.719	5.712	0.000	3.282	3.691	3.142
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:23	12.840	19680.000	0.000	9951.000	246400.000	250900.000	63.451%	8.992
2	17:07:31	12.770	18630.000	0.000	9876.000	248200.000	254400.000	64.178%	9.039
3	17:07:38	13.450	19660.000	0.000	9934.000	249900.000	256600.000	61.432%	9.637
x		13.020	19320.000	0.000	9921.000	248200.000	254000.000	63.020%	9.222
σ		0.373	603.100	0.000	39.440	1773.000	2865.000	1.423%	0.360
%RSD		2.868	3.121	0.000	0.398	0.715	1.128	2.257	3.900
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:23	0.518	1.299	1440.000	612.400	1495.000	1.072	13.000	27.190
2	17:07:31	0.598	1.342	1435.000	618.900	1481.000	1.267	13.050	25.740
3	17:07:38	-0.032	1.428	1494.000	642.700	1456.000	1.121	12.690	26.800
x		0.361	1.356	1456.000	624.700	1478.000	1.153	12.910	26.580
σ		0.343	0.066	32.750	15.930	19.550	0.101	0.194	0.749
%RSD		94.960	4.830	2.249	2.550	1.323	8.770	1.498	2.819
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:23	27.570	78.670	75.140	2.465	0.553	5.750	0.000	750.800
2	17:07:31	26.820	77.380	73.450	2.222	0.430	6.827	0.000	754.900
3	17:07:38	27.810	77.270	78.580	2.055	0.471	8.056	0.000	746.800
x		27.400	77.770	75.730	2.247	0.485	6.878	0.000	750.800
σ		0.516	0.779	2.615	0.206	0.063	1.154	0.000	4.036
%RSD		1.882	1.001	3.454	9.161	12.980	16.780	0.000	0.537
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:23	65.785%	4.544	4.665	56.715%	-0.347	-0.397	0.117	0.107
2	17:07:31	65.971%	4.321	4.501	57.763%	-0.327	-0.389	0.156	0.107
3	17:07:38	66.800%	4.463	4.918	57.460%	-0.335	-0.372	0.176	0.131
x		66.185%	4.443	4.695	57.313%	-0.336	-0.386	0.150	0.115
σ		0.540%	0.113	0.210	0.539%	0.010	0.013	0.030	0.014
%RSD		0.816	2.548	4.474	0.941	3.076	3.307	20.020	11.990
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:07:23	63.261%	-1.250	0.439	0.391	147.300	139.800	72.583%	74.176%
2	17:07:31	63.627%	-1.200	0.459	0.344	140.800	148.200	74.139%	75.145%
3	17:07:38	63.743%	-1.242	0.426	0.334	142.400	144.100	72.777%	74.301%
x		63.544%	-1.231	0.441	0.356	143.500	144.000	73.167%	74.541%
σ		0.251%	0.027	0.017	0.030	3.359	4.176	0.848%	0.527%
%RSD		0.396	2.184	3.745	8.493	2.341	2.899	1.159	0.707
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:07:23	0.042	0.031	0.396	0.367	0.405	63.625%		
2	17:07:31	0.031	0.041	0.365	0.386	0.389	64.261%		
3	17:07:38	0.046	0.039	0.525	0.394	0.434	65.808%		
x		0.040	0.037	0.429	0.383	0.409	64.564%		
σ		0.008	0.005	0.085	0.014	0.023	1.123%		
%RSD		19.120	13.950	19.790	3.602	5.554	1.739		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:12:26	65.189%	0.011	69.000	75.720	0.000	78430.000	8526.000	8363.000
2	17:12:34	58.148%	-0.022	74.680	78.080	0.000	82260.000	8900.000	8920.000
3	17:12:41	61.163%	-0.023	73.410	74.800	0.000	78210.000	8645.000	8615.000
x		61.500%	-0.011	72.360	76.200	0.000	79630.000	8690.000	8633.000
σ		3.533%	0.019	2.980	1.689	0.000	2276.000	190.700	279.000
%RSD		5.744	167.700	4.118	2.217	0.000	2.858	2.194	3.232
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:12:26	1.433	4315.000	0.000	2021.000	31480.000	32290.000	64.956%	0.511
2	17:12:34	1.657	4642.000	0.000	2048.000	31880.000	32230.000	62.623%	0.381
3	17:12:41	1.713	4494.000	0.000	2095.000	32510.000	32890.000	64.333%	0.487
x		1.601	4484.000	0.000	2054.000	31960.000	32470.000	63.971%	0.460
σ		0.148	163.600	0.000	37.660	521.600	363.400	1.208%	0.069
%RSD		9.267	3.649	0.000	1.833	1.632	1.119	1.889	14.990
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:12:26	-0.048	0.192	1.753	11.670	163.300	0.066	0.798	0.406
2	17:12:34	-0.147	0.138	1.649	11.620	135.100	0.058	0.864	0.396
3	17:12:41	0.111	0.203	1.735	10.550	124.400	0.051	0.727	0.583
x		-0.028	0.178	1.712	11.280	141.000	0.058	0.796	0.462
σ		0.130	0.034	0.055	0.632	20.090	0.008	0.069	0.105
%RSD		466.900	19.350	3.226	5.608	14.250	12.950	8.630	22.830
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:12:26	0.418	3.462	2.012	0.701	0.025	6.297	0.000	1421.000
2	17:12:34	0.527	3.882	1.780	0.746	-0.013	6.776	0.000	1434.000
3	17:12:41	0.564	4.050	2.403	0.860	-0.053	7.367	0.000	1428.000
x		0.503	3.798	2.065	0.769	-0.014	6.813	0.000	1428.000
σ		0.076	0.303	0.315	0.082	0.039	0.536	0.000	6.725
%RSD		15.060	7.969	15.260	10.650	283.400	7.871	0.000	0.471
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:12:26	69.170%	2.001	1.947	63.559%	-0.322	-0.398	0.014	-0.016
2	17:12:34	67.701%	2.234	2.164	63.636%	-0.348	-0.375	0.014	0.007
3	17:12:41	69.514%	2.121	2.116	63.373%	-0.337	-0.367	-0.004	0.007
x		68.795%	2.118	2.076	63.523%	-0.336	-0.380	0.008	-0.001
σ		0.963%	0.117	0.114	0.135%	0.013	0.016	0.011	0.013
%RSD		1.400	5.506	5.494	0.213	3.995	4.270	133.600	1585.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:12:26	67.079%	-1.262	0.295	0.324	233.400	243.200	76.866%	77.683%
2	17:12:34	66.877%	-1.441	0.447	0.286	237.300	239.400	76.520%	77.375%
3	17:12:41	66.901%	-1.261	0.336	0.058	237.100	244.700	76.477%	77.263%
x		66.952%	-1.322	0.359	0.223	235.900	242.400	76.621%	77.440%
σ		0.111%	0.104	0.078	0.144	2.172	2.748	0.213%	0.217%
%RSD		0.165	7.838	21.780	64.680	0.921	1.134	0.279	0.281
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:12:26	-0.024	-0.018	0.027	0.004	0.022	69.307%		
2	17:12:34	-0.024	-0.015	0.044	0.039	0.029	67.787%		
3	17:12:41	-0.030	-0.024	0.033	0.018	0.020	67.097%		
x		-0.026	-0.019	0.035	0.020	0.024	68.064%		
σ		0.004	0.004	0.009	0.018	0.005	1.131%		
%RSD		13.390	23.850	25.670	87.820	20.480	1.661		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:17:29	78.772%	-0.023	16.330	16.150	0.000	14680.000	1599.000	1597.000
2	17:17:37	77.262%	-0.035	14.860	15.280	0.000	14690.000	1532.000	1580.000
3	17:17:44	73.927%	0.004	17.420	16.470	0.000	14970.000	1652.000	1641.000
x		76.654%	-0.018	16.210	15.970	0.000	14780.000	1594.000	1606.000
σ		2.479%	0.020	1.285	0.619	0.000	162.300	60.290	31.440
%RSD		3.234	109.300	7.931	3.876	0.000	1.098	3.781	1.958
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:17:29	0.611	778.100	0.000	402.300	6372.000	6246.000	72.757%	0.044
2	17:17:37	0.366	792.100	0.000	419.900	6399.000	6257.000	70.612%	-0.059
3	17:17:44	0.560	815.200	0.000	417.500	6531.000	6252.000	71.568%	-0.034
x		0.513	795.100	0.000	413.200	6434.000	6252.000	71.646%	-0.016
σ		0.129	18.680	0.000	9.563	84.850	5.405	1.074%	0.054
%RSD		25.200	2.350	0.000	2.314	1.319	0.086	1.499	329.000
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:17:29	-0.064	0.039	0.288	0.613	26.990	0.013	0.279	0.056
2	17:17:37	0.070	0.042	0.281	0.396	19.240	0.011	0.387	0.107
3	17:17:44	0.025	0.038	0.260	0.235	24.340	0.018	0.416	0.081
x		0.010	0.040	0.276	0.415	23.520	0.014	0.361	0.081
σ		0.068	0.002	0.015	0.190	3.939	0.004	0.073	0.025
%RSD		658.900	5.217	5.340	45.850	16.740	25.270	20.110	31.030
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:17:29	0.160	0.734	0.892	0.045	-0.053	2.313	0.000	274.300
2	17:17:37	0.111	0.973	0.884	0.114	0.055	2.989	0.000	271.200
3	17:17:44	0.037	1.069	1.112	0.127	0.019	1.691	0.000	271.500
x		0.103	0.925	0.963	0.095	0.007	2.331	0.000	272.300
σ		0.062	0.172	0.129	0.044	0.055	0.650	0.000	1.705
%RSD		60.050	18.610	13.440	46.240	765.900	27.860	0.000	0.626
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:17:29	72.357%	0.545	0.355	65.396%	-0.338	-0.387	-0.004	-0.016
2	17:17:37	74.068%	0.217	0.413	67.256%	-0.305	-0.399	-0.005	-0.024
3	17:17:44	74.285%	0.242	0.380	67.309%	-0.324	-0.395	-0.005	-0.017
x		73.570%	0.335	0.382	66.654%	-0.322	-0.394	-0.004	-0.019
σ		1.056%	0.183	0.029	1.089%	0.016	0.006	0.000	0.004
%RSD		1.435	54.530	7.594	1.634	5.007	1.522	0.723	22.580
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:17:29	67.967%	-1.197	-0.051	-0.122	50.300	51.110	74.446%	74.127%
2	17:17:37	69.418%	-1.274	-0.045	-0.115	47.510	49.870	75.401%	76.093%
3	17:17:44	70.806%	-1.234	-0.017	-0.166	48.410	49.930	77.257%	78.568%
x		69.397%	-1.235	-0.038	-0.134	48.740	50.300	75.701%	76.262%
σ		1.419%	0.038	0.018	0.027	1.423	0.699	1.430%	2.225%
%RSD		2.045	3.108	47.430	20.340	2.920	1.389	1.888	2.918
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:17:29	-0.027	-0.019	-0.002	-0.015	0.000	60.056%		
2	17:17:37	-0.024	-0.021	0.005	0.002	0.011	63.638%		
3	17:17:44	-0.027	-0.022	0.000	-0.007	0.008	64.930%		
x		-0.026	-0.021	0.001	-0.007	0.006	62.875%		
σ		0.002	0.002	0.004	0.009	0.006	2.525%		
%RSD		7.140	7.808	320.300	131.100	89.740	4.016		

CCV 1558997 5/8/2015 5:23:25 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:33	78.298%	94.500	86.010	91.770	0.000	48020.000	47980.000	47820.000
2	17:22:41	72.657%	99.370	86.260	92.970	0.000	53670.000	52330.000	52960.000
3	17:22:48	71.344%	98.820	94.640	96.110	0.000	56790.000	55430.000	54670.000
x		74.100%	97.562%	88.967%	93.618%	0.000	105.653%	103.831%	103.631%
σ		3.694%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		4.986	2.730	5.522	2.395	0.000	8.416	7.210	6.874

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:33	456.800	5307.000	0.000	49890.000	47340.000	47820.000	77.496%	93.000
2	17:22:41	510.600	5880.000	0.000	49150.000	47270.000	48240.000	74.042%	99.760
3	17:22:48	540.800	6228.000	0.000	54410.000	51430.000	51570.000	70.554%	101.500
x		100.548%	116.096%	0.000	102.299%	97.357%	98.415%	74.031%	98.071%
σ		n/a	n/a	0.000	n/a	n/a	n/a	3.471%	n/a
%RSD		8.464	8.012	0.000	5.570	4.889	4.171	4.688	4.562

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:33	90.320	94.340	497.300	24240.000	23160.000	96.580	97.080	96.430
2	17:22:41	98.420	99.820	526.100	25300.000	24570.000	104.400	102.500	101.400
3	17:22:48	103.600	106.300	557.500	26670.000	25380.000	107.900	110.900	105.500
x		97.455%	100.169%	105.395%	101.604%	97.488%	102.958%	103.498%	101.126%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		6.882	6.001	5.709	4.803	4.608	5.629	6.732	4.511

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:33	98.160	102.500	104.100	102.100	98.680	103.300	0.000	96.970
2	17:22:41	102.500	108.400	107.900	102.700	107.100	107.700	0.000	96.000
3	17:22:48	107.800	111.400	111.000	106.400	102.300	102.400	0.000	94.370
x		102.797%	107.444%	107.673%	103.716%	102.693%	104.475%	0.000	95.780%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		4.690	4.210	3.226	2.229	4.090	2.684	0.000	1.370

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:33	78.677%	103.400	104.200	69.089%	104.100	104.400	108.400	108.800
2	17:22:41	80.994%	105.500	107.200	70.083%	105.000	103.400	105.100	108.800
3	17:22:48	82.356%	102.300	107.200	71.683%	102.800	104.100	104.000	107.900
x		80.676%	103.758%	106.224%	70.285%	103.973%	103.938%	105.823%	108.498%
σ		1.860%	n/a	n/a	1.308%	n/a	n/a	n/a	n/a
%RSD		2.306	1.567	1.611	1.862	1.063	0.477	2.172	0.495

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:33	72.724%	98.750	103.400	105.100	101.200	103.200	79.310%	81.035%
2	17:22:41	74.360%	98.190	105.000	101.600	99.980	104.700	79.404%	82.584%
3	17:22:48	76.789%	96.770	103.300	104.300	98.670	101.200	82.021%	82.520%
x		74.624%	97.905%	103.886%	103.662%	99.942%	102.998%	80.245%	82.046%
σ		2.045%	n/a	n/a	n/a	n/a	n/a	1.539%	0.876%
%RSD		2.741	1.047	0.926	1.757	1.256	1.690	1.918	1.068

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:22:33	100.900	99.650	100.200	99.080	99.250	71.316%
2	17:22:41	99.850	101.300	102.700	101.300	101.200	72.632%
3	17:22:48	99.750	99.300	101.000	99.670	99.720	74.444%
x		100.157%	100.070%	101.332%	100.023%	100.064%	72.797%
σ		n/a	n/a	n/a	n/a	n/a	1.570%
%RSD		0.618	1.047	1.254	1.164	1.030	2.157

CCB5 5/8/2015 5:32:16 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:31:23	92.113%	-0.030	0.303	0.222	0.000	11.890	2.261	1.636
2	17:31:31	81.751%	-0.048	0.432	0.476	0.000	13.060	2.711	2.986
3	17:31:39	83.603%	-0.057	0.229	0.264	0.000	13.210	2.692	2.552
x		85.822%	-0.045	0.321	0.320	0.000	12.720	2.555	2.391
σ		5.526%	0.014	0.103	0.136	0.000	0.723	0.255	0.689
%RSD		6.439	30.130	32.080	42.440	0.000	5.682	9.963	28.830

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:31:23	0.924	-17.240	0.000	5.594	2.973	8.971	89.249%	0.031
2	17:31:31	0.993	-15.880	0.000	8.293	-3.872	8.926	86.021%	-0.007
3	17:31:39	0.998	-16.220	0.000	7.735	3.789	8.487	85.027%	-0.096
x		0.972	-16.450	0.000	7.207	0.964	8.795	86.766%	-0.024
σ		0.041	0.709	0.000	1.425	4.207	0.267	2.207%	0.065
%RSD		4.256	4.311	0.000	19.770	436.600	3.040	2.544	273.700

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:31:23	0.013	0.004	0.063	10.590	10.700	0.006	-0.008	0.048
2	17:31:31	0.001	0.011	0.064	10.410	9.854	0.012	0.041	0.040
3	17:31:39	0.014	0.003	0.065	9.587	7.846	0.006	0.013	0.033
x		0.009	0.006	0.064	10.200	9.468	0.008	0.015	0.040
σ		0.007	0.005	0.001	0.535	1.468	0.003	0.024	0.007
%RSD		78.400	78.200	1.832	5.252	15.500	43.560	161.700	18.670

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:31:23	0.044	0.667	0.772	-0.028	0.006	-0.151	0.000	0.023
2	17:31:31	0.056	0.597	0.693	-0.085	0.006	0.929	0.000	0.005
3	17:31:39	-0.027	1.059	0.575	-0.056	0.006	0.186	0.000	0.016
x		0.024	0.774	0.680	-0.056	0.006	0.321	0.000	0.015
σ		0.045	0.249	0.099	0.028	0.000	0.553	0.000	0.009
%RSD		184.400	32.150	14.630	50.360	5.589	172.000	0.000	61.870

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:31:23	90.452%	0.357	0.339	84.462%	-0.296	-0.347	0.025	0.000
2	17:31:31	90.562%	0.178	0.247	85.363%	-0.311	-0.333	0.010	-0.006
3	17:31:39	90.612%	0.065	0.191	84.810%	-0.281	-0.368	-0.005	-0.018
x		90.542%	0.200	0.259	84.878%	-0.296	-0.349	0.010	-0.008
σ		0.081%	0.148	0.075	0.455%	0.015	0.018	0.015	0.009
%RSD		0.090	73.790	28.820	0.536	4.954	5.117	145.600	117.300

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:31:23	84.962%	-0.982	-0.088	-0.158	0.052	0.049	84.026%	83.450%
2	17:31:31	85.234%	-0.865	-0.050	-0.230	-0.020	-0.019	84.216%	84.265%
3	17:31:39	85.194%	-0.968	0.019	-0.190	0.016	0.049	84.372%	83.722%
x		85.130%	-0.938	-0.040	-0.192	0.016	0.026	84.205%	83.812%
σ		0.147%	0.064	0.054	0.036	0.036	0.039	0.174%	0.415%
%RSD		0.173	6.800	136.800	18.810	230.900	149.400	0.206	0.495

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:31:23	0.067	0.043	0.016	0.006	0.014	80.834%
2	17:31:31	0.038	0.057	0.020	-0.005	0.006	80.591%
3	17:31:39	0.058	0.039	-0.007	0.014	0.005	78.294%
x		0.054	0.046	0.010	0.005	0.008	79.906%
σ		0.015	0.009	0.015	0.010	0.005	1.402%
%RSD		27.310	19.980	154.100	197.400	66.460	1.754

MB 180-140837/1-A 5/8/2015 5:37:24 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:36:31	87.772%	-0.045	0.401	0.323	0.000	8.044	0.891	0.589
2	17:36:39	85.833%	-0.051	0.329	0.382	0.000	7.522	0.666	0.295
3	17:36:46	93.007%	-0.070	0.239	0.089	0.000	7.032	0.655	0.543
x		88.871%	-0.056	0.323	0.265	0.000	7.533	0.737	0.476
σ		3.711%	0.013	0.081	0.155	0.000	0.506	0.133	0.158
%RSD		4.176	23.570	25.210	58.460	0.000	6.720	18.080	33.290
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:36:31	0.643	-19.960	0.000	4.635	1.412	6.390	86.287%	-0.052
2	17:36:39	0.593	-19.730	0.000	4.230	1.045	5.896	88.467%	-0.011
3	17:36:46	0.516	-18.580	0.000	4.194	-0.275	6.732	83.420%	-0.095
x		0.584	-19.430	0.000	4.353	0.728	6.339	86.058%	-0.053
σ		0.064	0.740	0.000	0.245	0.887	0.420	2.531%	0.042
%RSD		10.940	3.807	0.000	5.632	122.000	6.627	2.941	80.280
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:36:31	-0.007	0.001	0.005	0.845	0.841	-0.004	-0.006	-0.001
2	17:36:39	-0.009	-0.002	0.023	0.338	-0.519	-0.002	0.003	-0.007
3	17:36:46	0.009	0.008	0.033	0.085	-0.564	0.000	0.015	-0.020
x		-0.003	0.002	0.020	0.422	-0.081	-0.002	0.004	-0.010
σ		0.010	0.005	0.014	0.387	0.798	0.002	0.010	0.009
%RSD		370.400	194.600	69.500	91.560	989.700	120.400	253.800	99.070
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:36:31	-0.042	0.709	0.722	-0.089	-0.053	0.596	0.000	0.002
2	17:36:39	-0.009	0.804	1.111	-0.036	-0.022	1.390	0.000	0.009
3	17:36:46	-0.040	0.851	0.608	-0.071	-0.022	0.865	0.000	0.002
x		-0.030	0.788	0.814	-0.065	-0.032	0.950	0.000	0.004
σ		0.018	0.072	0.264	0.027	0.018	0.404	0.000	0.004
%RSD		60.400	9.191	32.480	41.660	55.280	42.520	0.000	105.100
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:36:31	85.330%	0.005	0.116	78.070%	-0.306	-0.381	0.011	-0.004
2	17:36:39	85.115%	-0.029	0.046	78.920%	-0.310	-0.372	-0.005	-0.024
3	17:36:46	85.757%	-0.042	-0.011	80.634%	-0.263	-0.354	-0.005	-0.018
x		85.401%	-0.022	0.050	79.208%	-0.293	-0.369	0.001	-0.015
σ		0.327%	0.024	0.063	1.306%	0.026	0.014	0.009	0.010
%RSD		0.383	112.700	126.200	1.649	9.009	3.700	1342.000	64.600
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:36:31	79.165%	-1.259	-0.091	-0.244	0.017	-0.019	83.760%	83.421%
2	17:36:39	81.659%	-1.171	-0.073	-0.187	0.016	0.004	84.527%	84.369%
3	17:36:46	82.924%	-1.251	-0.067	-0.188	0.052	0.027	85.100%	85.436%
x		81.249%	-1.227	-0.077	-0.206	0.029	0.004	84.462%	84.409%
σ		1.912%	0.049	0.012	0.033	0.021	0.023	0.672%	1.008%
%RSD		2.354	3.960	16.000	15.840	71.740	590.000	0.796	1.195
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:36:31	-0.019	-0.005	-0.013	-0.014	-0.007	71.411%		
2	17:36:39	-0.002	-0.007	-0.006	-0.030	-0.008	74.167%		
3	17:36:46	-0.000	-0.003	0.007	-0.023	-0.002	76.883%		
x		-0.007	-0.005	-0.004	-0.022	-0.006	74.154%		
σ		0.010	0.002	0.011	0.008	0.003	2.736%		
%RSD		141.900	37.780	253.800	36.980	59.830	3.690		

LCS 180-140837/2-A 5/8/2015 5:42:30 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:37	71.303%	48.940	907.200	909.200	0.000	51530.000	48830.000	48780.000
2	17:41:44	69.351%	52.180	970.200	960.500	0.000	53370.000	49260.000	49440.000
3	17:41:52	70.498%	49.540	900.900	867.800	0.000	52060.000	48830.000	49050.000
x		70.384%	50.220	926.100	912.500	0.000	52320.000	48980.000	49090.000
σ		0.981%	1.724	38.320	46.470	0.000	948.900	246.200	332.900
%RSD		1.394	3.434	4.138	5.092	0.000	1.814	0.503	0.678
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:37	1986.000	10750.000	0.000	52220.000	49680.000	49610.000	71.791%	981.000
2	17:41:44	1995.000	10770.000	0.000	52390.000	49960.000	51030.000	70.924%	1036.000
3	17:41:52	1985.000	10870.000	0.000	52840.000	51330.000	50170.000	69.565%	1046.000
x		1989.000	10800.000	0.000	52480.000	50320.000	50270.000	70.760%	1021.000
σ		5.479	61.500	0.000	318.500	884.500	714.600	1.122%	35.210
%RSD		0.276	0.570	0.000	0.607	1.758	1.421	1.585	3.447
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:37	497.600	191.100	530.800	1001.000	1091.000	490.300	496.500	247.600
2	17:41:44	499.500	195.400	550.200	1028.000	1142.000	489.700	484.200	246.200
3	17:41:52	506.200	199.500	549.900	1040.000	1110.000	495.100	486.500	250.900
x		501.100	195.300	543.600	1023.000	1114.000	491.700	489.100	248.300
σ		4.520	4.238	11.090	19.960	25.420	2.978	6.538	2.414
%RSD		0.902	2.169	2.040	1.951	2.281	0.606	1.337	0.972
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:37	247.900	520.700	511.400	41.580	11.950	12.050	0.000	1001.000
2	17:41:44	247.900	523.600	522.500	41.810	11.080	10.890	0.000	993.100
3	17:41:52	252.000	535.200	525.300	41.030	10.900	11.580	0.000	981.200
x		249.200	526.500	519.700	41.470	11.310	11.510	0.000	991.900
σ		2.390	7.696	7.355	0.400	0.563	0.582	0.000	10.140
%RSD		0.959	1.462	1.415	0.965	4.974	5.056	0.000	1.023
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:37	73.211%	1087.000	1089.000	66.341%	51.760	51.370	53.720	100.100
2	17:41:44	74.245%	1082.000	1107.000	66.050%	52.130	51.210	55.930	98.890
3	17:41:52	74.348%	1088.000	1104.000	65.221%	52.050	51.850	55.830	96.420
x		73.935%	1086.000	1100.000	65.871%	51.980	51.480	55.160	98.460
σ		0.629%	2.902	9.725	0.581%	0.191	0.335	1.252	1.861
%RSD		0.851	0.267	0.884	0.882	0.368	0.651	2.269	1.890
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:37	69.470%	2157.000	536.300	525.500	1956.000	2019.000	79.351%	79.340%
2	17:41:44	69.883%	2127.000	528.000	532.100	1991.000	2003.000	78.416%	79.672%
3	17:41:52	71.146%	2128.000	529.500	524.300	1984.000	2002.000	78.977%	79.940%
x		70.166%	2137.000	531.300	527.300	1977.000	2008.000	78.915%	79.651%
σ		0.873%	17.240	4.406	4.196	18.380	9.847	0.471%	0.300%
%RSD		1.244	0.806	0.829	0.796	0.930	0.490	0.597	0.377
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:41:37	48.500	48.750	19.510	20.020	19.570	74.161%		
2	17:41:44	48.120	49.290	20.200	20.410	20.230	75.269%		
3	17:41:52	49.170	49.470	20.580	20.470	20.410	74.300%		
x		48.600	49.170	20.100	20.300	20.070	74.577%		
σ		0.535	0.374	0.539	0.242	0.440	0.604%		
%RSD		1.100	0.760	2.683	1.193	2.193	0.810		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:43	59.245%	52.240	965.100	887.400	0.000	55490.000	52510.000	53030.000
2	17:46:51	62.981%	47.080	817.300	863.400	0.000	54390.000	52670.000	50770.000
3	17:46:58	60.412%	49.240	895.400	916.300	0.000	55620.000	53340.000	53830.000
x		60.879%	49.520	892.600	889.000	0.000	55160.000	52840.000	52550.000
σ		1.912%	2.589	73.950	26.500	0.000	678.200	436.000	1584.000
%RSD		3.140	5.228	8.285	2.981	0.000	1.229	0.825	3.015
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:43	2102.000	11780.000	0.000	48260.000	45850.000	46530.000	70.288%	936.100
2	17:46:51	2000.000	11170.000	0.000	47260.000	45870.000	46140.000	71.481%	928.000
3	17:46:58	2097.000	11480.000	0.000	49930.000	47250.000	47920.000	70.051%	965.700
x		2066.000	11480.000	0.000	48480.000	46330.000	46860.000	70.607%	943.300
σ		57.630	305.900	0.000	1350.000	800.300	933.000	0.767%	19.830
%RSD		2.789	2.665	0.000	2.784	1.728	1.991	1.086	2.102
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:43	497.800	196.100	508.200	1159.000	1200.000	491.700	485.500	247.600
2	17:46:51	478.800	191.800	512.300	1128.000	1185.000	487.100	471.700	251.700
3	17:46:58	487.300	196.200	527.900	1162.000	1194.000	509.300	501.300	249.800
x		488.000	194.700	516.100	1149.000	1193.000	496.000	486.200	249.700
σ		9.508	2.494	10.390	18.930	7.637	11.690	14.770	2.057
%RSD		1.949	1.281	2.012	1.647	0.640	2.358	3.038	0.824
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:43	251.700	519.200	525.300	41.640	11.130	12.130	0.000	1030.000
2	17:46:51	250.100	523.800	505.700	39.820	9.698	13.800	0.000	1037.000
3	17:46:58	253.200	526.000	520.300	43.340	11.960	10.070	0.000	1041.000
x		251.700	523.000	517.100	41.600	10.930	12.000	0.000	1036.000
σ		1.535	3.510	10.190	1.761	1.147	1.870	0.000	5.265
%RSD		0.610	0.671	1.970	4.234	10.490	15.580	0.000	0.508
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:43	68.888%	1113.000	1138.000	62.120%	52.040	52.810	54.420	99.490
2	17:46:51	68.431%	1117.000	1124.000	62.132%	52.820	53.280	56.020	100.500
3	17:46:58	67.871%	1143.000	1172.000	61.210%	52.730	52.480	57.360	98.190
x		68.396%	1124.000	1145.000	61.820%	52.530	52.860	55.930	99.380
σ		0.509%	16.260	24.750	0.529%	0.426	0.404	1.472	1.138
%RSD		0.745	1.446	2.162	0.855	0.811	0.764	2.631	1.145
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:46:43	66.130%	2196.000	540.300	533.900	2009.000	2020.000	76.700%	77.055%
2	17:46:51	65.687%	2216.000	544.100	545.300	2016.000	2044.000	75.860%	77.319%
3	17:46:58	66.110%	2167.000	534.600	532.100	2033.000	2027.000	75.679%	77.697%
x		65.976%	2193.000	539.700	537.100	2019.000	2031.000	76.080%	77.357%
σ		0.250%	24.690	4.782	7.142	12.350	12.620	0.545%	0.323%
%RSD		0.380	1.126	0.886	1.330	0.611	0.622	0.716	0.417
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:46:43	50.060	50.390	21.170	20.130	20.420	70.132%		
2	17:46:51	51.520	51.190	20.970	21.270	20.720	68.020%		
3	17:46:58	51.330	51.510	21.140	21.480	21.050	66.810%		
x		50.970	51.030	21.090	20.960	20.730	68.321%		
σ		0.790	0.577	0.108	0.726	0.314	1.681%		
%RSD		1.550	1.130	0.513	3.463	1.513	2.461		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:51	71.841%	-0.032	19.610	20.850	0.000	94680.000	111.300	114.700
2	17:51:59	71.290%	-0.040	18.790	17.580	0.000	95430.000	111.600	109.300
3	17:52:06	69.483%	-0.038	19.120	18.610	0.000	97860.000	117.800	111.800
x		70.871%	-0.036	19.170	19.010	0.000	95990.000	113.600	111.900
σ		1.233%	0.004	0.414	1.672	0.000	1662.000	3.706	2.701
%RSD		1.740	11.920	2.157	8.794	0.000	1.731	3.264	2.414
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:51	13.800	138.900	0.000	211.200	680.200	700.300	63.979%	2.146
2	17:51:59	14.280	137.200	0.000	211.300	694.600	680.500	64.108%	1.691
3	17:52:06	14.090	139.400	0.000	208.700	749.900	707.400	63.065%	1.874
x		14.060	138.500	0.000	210.400	708.200	696.100	63.717%	1.903
σ		0.241	1.166	0.000	1.446	36.790	13.920	0.569%	0.229
%RSD		1.712	0.842	0.000	0.687	5.195	2.000	0.892	12.030
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:51	0.195	0.816	2.176	184.500	175.800	0.125	20.890	1.336
2	17:51:59	0.003	0.796	2.080	184.900	154.400	0.069	19.720	1.321
3	17:52:06	-0.088	0.741	2.003	184.900	173.600	0.114	20.110	1.230
x		0.036	0.784	2.086	184.800	167.900	0.103	20.240	1.296
σ		0.145	0.039	0.087	0.219	11.770	0.029	0.597	0.057
%RSD		398.200	4.921	4.151	0.119	7.011	28.660	2.951	4.419
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:51	1.257	4.187	4.314	4.196	45.200	63.150	0.000	2.818
2	17:51:59	1.253	4.973	4.048	4.150	50.160	59.710	0.000	3.120
3	17:52:06	1.611	4.679	5.399	3.944	44.040	62.670	0.000	3.039
x		1.374	4.613	4.587	4.097	46.470	61.840	0.000	2.992
σ		0.206	0.397	0.716	0.135	3.252	1.863	0.000	0.156
%RSD		14.990	8.610	15.600	3.282	6.999	3.012	0.000	5.221
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:51	66.889%	7.541	7.749	58.747%	-0.327	-0.397	0.016	0.268
2	17:51:59	68.454%	6.272	6.209	60.743%	-0.344	-0.385	-0.004	0.345
3	17:52:06	68.812%	5.632	5.241	59.880%	-0.332	-0.389	-0.004	0.256
x		68.052%	6.482	6.400	59.790%	-0.334	-0.391	0.002	0.290
σ		1.023%	0.972	1.265	1.001%	0.009	0.006	0.012	0.048
%RSD		1.503	15.000	19.770	1.675	2.617	1.557	514.800	16.620
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:51:51	61.946%	14.640	0.282	0.247	0.827	0.865	69.193%	70.481%
2	17:51:59	62.947%	11.820	0.343	0.175	0.351	0.794	70.070%	70.801%
3	17:52:06	64.686%	9.671	0.273	0.143	0.478	0.776	71.266%	70.709%
x		63.193%	12.040	0.299	0.188	0.552	0.811	70.177%	70.663%
σ		1.387%	2.493	0.038	0.053	0.246	0.047	1.041%	0.165%
%RSD		2.195	20.700	12.680	28.090	44.660	5.778	1.483	0.233
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	17:51:51	0.180	0.183	1.785	1.653	1.672	55.020%		
2	17:51:59	0.194	0.152	1.682	1.629	1.619	55.110%		
3	17:52:06	0.159	0.120	1.826	1.619	1.748	55.459%		
x		0.178	0.152	1.764	1.634	1.680	55.196%		
σ		0.017	0.031	0.074	0.017	0.065	0.232%		
%RSD		9.813	20.630	4.189	1.068	3.866	0.420		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:56:57	70.363%	-0.048	12.260	12.090	0.000	76550.000	182.400	186.000
2	17:57:05	67.500%	-0.013	12.720	12.840	0.000	79790.000	199.500	191.700
3	17:57:12	69.053%	-0.062	12.660	12.540	0.000	78390.000	188.000	191.400
x		68.972%	-0.041	12.540	12.490	0.000	78240.000	190.000	189.700
σ		1.433%	0.025	0.252	0.377	0.000	1624.000	8.726	3.207
%RSD		2.078	61.550	2.011	3.014	0.000	2.076	4.593	1.691

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:56:57	1.790	67.640	0.000	168.800	972.300	909.200	64.187%	0.309
2	17:57:05	2.434	67.170	0.000	172.400	958.200	928.000	63.802%	0.191
3	17:57:12	2.404	63.260	0.000	163.800	902.300	909.700	65.795%	0.151
x		2.209	66.020	0.000	168.300	944.300	915.600	64.595%	0.217
σ		0.364	2.404	0.000	4.309	37.060	10.730	1.057%	0.082
%RSD		16.460	3.641	0.000	2.560	3.925	1.172	1.636	37.740

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:56:57	-0.150	0.129	39.900	563.800	515.300	1.088	3.172	0.228
2	17:57:05	-0.201	0.177	41.020	554.200	507.300	1.203	3.312	0.173
3	17:57:12	-0.312	0.110	41.280	551.700	503.700	1.148	3.082	0.175
x		-0.221	0.139	40.730	556.600	508.800	1.146	3.189	0.192
σ		0.083	0.034	0.735	6.383	5.923	0.058	0.116	0.031
%RSD		37.600	24.720	1.804	1.147	1.164	5.020	3.634	16.160

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:56:57	0.265	3.447	3.517	0.109	29.750	39.280	0.000	4.294
2	17:57:05	0.306	3.032	3.699	0.181	32.260	40.630	0.000	3.960
3	17:57:12	0.219	3.386	2.674	0.100	31.300	37.700	0.000	4.225
x		0.263	3.288	3.297	0.130	31.110	39.200	0.000	4.160
σ		0.044	0.224	0.547	0.044	1.271	1.470	0.000	0.176
%RSD		16.630	6.812	16.580	34.010	4.088	3.749	0.000	4.240

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:56:57	69.851%	0.910	1.111	65.351%	-0.334	-0.391	-0.005	0.006
2	17:57:05	71.455%	0.832	0.761	65.013%	-0.337	-0.406	-0.004	0.052
3	17:57:12	73.271%	0.760	0.851	65.802%	-0.345	-0.383	-0.004	0.066
x		71.525%	0.834	0.908	65.389%	-0.339	-0.393	-0.004	0.041
σ		1.711%	0.075	0.182	0.396%	0.006	0.011	0.000	0.031
%RSD		2.393	8.982	20.030	0.606	1.714	2.922	1.229	74.890

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:56:57	67.655%	2.172	-0.051	-0.171	0.799	0.602	75.444%	76.098%
2	17:57:05	67.968%	1.926	-0.090	-0.182	0.834	0.516	76.542%	77.086%
3	17:57:12	69.066%	1.823	-0.030	-0.221	0.360	0.643	76.678%	78.294%
x		68.230%	1.974	-0.057	-0.191	0.665	0.587	76.221%	77.159%
σ		0.741%	0.179	0.031	0.027	0.264	0.065	0.677%	1.100%
%RSD		1.086	9.082	53.810	13.850	39.730	11.080	0.888	1.426

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	17:56:57	-0.000	0.008	-0.001	-0.013	0.017	70.254%
2	17:57:05	-0.013	0.001	0.014	0.011	0.024	71.246%
3	17:57:12	-0.004	0.006	0.021	0.003	0.020	71.578%
x		-0.006	0.005	0.011	0.000	0.020	71.026%
σ		0.006	0.003	0.012	0.012	0.003	0.689%
%RSD		110.200	67.020	102.700	87650.000	17.130	0.970

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:02	68.429%	-0.040	12.700	11.810	0.000	79030.000	214.900	218.200
2	18:02:09	72.555%	-0.059	10.890	11.390	0.000	79470.000	211.800	212.900
3	18:02:17	69.503%	-0.066	11.160	10.320	0.000	82350.000	216.200	223.300
x		70.162%	-0.055	11.580	11.170	0.000	80280.000	214.300	218.100
σ		2.141%	0.014	0.975	0.770	0.000	1806.000	2.294	5.193
%RSD		3.051	24.680	8.418	6.890	0.000	2.249	1.070	2.381

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:02	3.840	70.420	0.000	175.200	1012.000	970.100	67.281%	0.345
2	18:02:09	2.999	68.110	0.000	173.400	960.100	1013.000	67.440%	0.630
3	18:02:17	3.348	72.800	0.000	186.500	1106.000	1055.000	64.363%	0.397
x		3.395	70.440	0.000	178.400	1026.000	1013.000	66.362%	0.457
σ		0.423	2.342	0.000	7.102	74.220	42.230	1.732%	0.151
%RSD		12.440	3.325	0.000	3.981	7.234	4.170	2.610	33.110

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:02	-0.443	0.216	35.640	554.900	500.400	0.996	3.051	0.155
2	18:02:09	-0.233	0.217	36.710	536.500	507.700	0.977	2.694	0.178
3	18:02:17	0.034	0.208	38.100	565.400	513.300	1.014	2.882	0.132
x		-0.214	0.214	36.810	552.300	507.100	0.996	2.876	0.155
σ		0.239	0.005	1.236	14.610	6.454	0.019	0.178	0.023
%RSD		111.800	2.207	3.357	2.646	1.273	1.869	6.202	14.890

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:02	0.167	4.840	5.134	0.119	34.880	38.180	0.000	5.235
2	18:02:09	0.218	4.823	4.153	0.131	33.820	39.830	0.000	5.150
3	18:02:17	0.115	5.475	5.500	0.123	33.310	43.090	0.000	4.796
x		0.166	5.046	4.929	0.125	34.000	40.370	0.000	5.060
σ		0.051	0.372	0.697	0.006	0.798	2.499	0.000	0.233
%RSD		30.920	7.369	14.130	4.949	2.347	6.191	0.000	4.608

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:02	70.435%	0.400	0.388	67.654%	-0.349	-0.395	-0.004	0.035
2	18:02:09	71.433%	0.311	0.314	69.231%	-0.346	-0.377	0.048	0.012
3	18:02:17	73.396%	0.421	0.399	68.549%	-0.335	-0.399	-0.004	0.027
x		71.755%	0.377	0.367	68.478%	-0.343	-0.390	0.013	0.025
σ		1.507%	0.058	0.046	0.791%	0.007	0.012	0.030	0.012
%RSD		2.100	15.470	12.570	1.155	2.141	2.953	232.300	47.210

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:02	69.413%	0.309	-0.091	-0.183	0.990	0.745	77.101%	77.898%
2	18:02:09	71.111%	0.227	-0.085	-0.185	0.684	0.760	77.492%	78.549%
3	18:02:17	71.223%	0.300	-0.063	-0.157	0.642	0.630	77.404%	78.940%
x		70.582%	0.279	-0.080	-0.175	0.772	0.712	77.332%	78.463%
σ		1.014%	0.045	0.015	0.016	0.190	0.071	0.205%	0.527%
%RSD		1.437	16.120	18.820	8.989	24.590	10.010	0.265	0.671

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:02:02	0.003	-0.002	0.015	0.004	0.028	76.848%
2	18:02:09	-0.014	0.000	0.022	0.034	0.025	77.061%
3	18:02:17	-0.008	-0.006	0.022	-0.004	0.020	77.351%
x		-0.007	-0.003	0.019	0.011	0.025	77.087%
σ		0.008	0.003	0.004	0.020	0.004	0.253%
%RSD		129.500	132.600	20.780	176.300	16.420	0.328

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:10	77.695%	-0.055	10.630	10.680	0.000	79720.000	187.100	187.000
2	18:07:17	74.200%	-0.049	12.220	11.280	0.000	80670.000	201.200	198.400
3	18:07:25	72.214%	-0.059	10.830	11.250	0.000	85960.000	204.300	203.800
x		74.703%	-0.054	11.230	11.070	0.000	82120.000	197.500	196.400
σ		2.775%	0.005	0.869	0.341	0.000	3360.000	9.196	8.542
%RSD		3.715	9.213	7.743	3.082	0.000	4.092	4.656	4.350

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:10	77.000	71.150	0.000	53.170	1423.000	1380.000	69.129%	0.527
2	18:07:17	76.540	66.240	0.000	52.430	1388.000	1353.000	68.695%	0.279
3	18:07:25	79.800	79.020	0.000	52.410	1364.000	1361.000	67.369%	0.316
x		77.780	72.140	0.000	52.670	1392.000	1365.000	68.398%	0.374
σ		1.764	6.444	0.000	0.434	29.740	13.770	0.917%	0.134
%RSD		2.268	8.934	0.000	0.824	2.136	1.009	1.341	35.770

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:10	0.277	0.122	19.070	164.700	168.800	0.713	0.723	0.120
2	18:07:17	0.021	0.148	19.730	170.500	169.200	0.653	0.548	0.056
3	18:07:25	-0.139	0.109	20.140	173.500	163.700	0.873	0.541	0.098
x		0.053	0.126	19.650	169.600	167.200	0.746	0.604	0.091
σ		0.210	0.020	0.544	4.508	3.087	0.114	0.103	0.033
%RSD		395.800	15.880	2.771	2.659	1.846	15.210	17.080	36.000

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:10	0.067	2.257	1.983	0.125	13.140	17.260	0.000	5.484
2	18:07:17	0.132	1.737	1.994	0.193	12.400	19.210	0.000	5.209
3	18:07:25	0.134	2.529	1.878	0.148	13.200	15.600	0.000	5.415
x		0.111	2.174	1.952	0.155	12.920	17.360	0.000	5.369
σ		0.038	0.403	0.064	0.034	0.444	1.807	0.000	0.144
%RSD		34.310	18.530	3.284	22.150	3.435	10.410	0.000	2.672

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:10	70.140%	0.215	0.297	63.014%	-0.333	-0.398	-0.004	0.007
2	18:07:17	69.877%	0.310	0.346	63.412%	-0.348	-0.394	0.033	0.047
3	18:07:25	70.609%	0.309	0.397	63.082%	-0.333	-0.382	-0.005	0.039
x		70.209%	0.278	0.347	63.170%	-0.338	-0.391	0.008	0.031
σ		0.371%	0.055	0.050	0.213%	0.009	0.008	0.022	0.021
%RSD		0.528	19.620	14.360	0.337	2.646	2.086	268.500	67.070

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:10	65.744%	0.011	-0.048	-0.148	0.604	0.791	72.529%	73.784%
2	18:07:17	65.865%	0.201	-0.081	-0.219	0.246	0.592	73.100%	74.040%
3	18:07:25	66.074%	0.206	-0.065	-0.108	0.689	0.592	73.017%	73.473%
x		65.894%	0.139	-0.064	-0.158	0.513	0.658	72.882%	73.766%
σ		0.167%	0.111	0.016	0.056	0.235	0.115	0.309%	0.284%
%RSD		0.253	79.800	25.130	35.530	45.840	17.430	0.424	0.385

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:07:10	0.000	0.006	0.029	0.023	0.035	60.599%
2	18:07:17	-0.023	-0.000	0.017	0.029	0.035	59.451%
3	18:07:25	-0.013	0.004	0.035	0.019	0.035	60.052%
x		-0.012	0.003	0.027	0.024	0.035	60.034%
σ		0.012	0.003	0.009	0.005	0.000	0.574%
%RSD		99.120	109.400	34.470	21.560	0.882	0.956

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:12:17	69.886%	-0.069	137.300	129.400	0.000	65760.000	22710.000	22820.000
2	18:12:25	66.328%	-0.060	137.000	131.700	0.000	66730.000	22450.000	23840.000
3	18:12:33	71.153%	-0.061	129.200	123.500	0.000	63960.000	20740.000	21950.000
x		69.122%	-0.063	134.500	128.200	0.000	65480.000	21970.000	22870.000
σ		2.502%	0.005	4.598	4.232	0.000	1405.000	1068.000	947.200
%RSD		3.619	8.004	3.420	3.301	0.000	2.145	4.860	4.142
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:12:17	101.800	5119.000	0.000	3368.000	274400.000	276900.000	62.275%	10.520
2	18:12:25	105.000	5277.000	0.000	3397.000	288700.000	285100.000	59.877%	11.400
3	18:12:33	97.990	5282.000	0.000	3477.000	286300.000	282400.000	61.126%	12.050
x		101.600	5226.000	0.000	3414.000	283100.000	281500.000	61.093%	11.330
σ		3.489	92.930	0.000	56.630	7638.000	4198.000	1.199%	0.765
%RSD		3.435	1.778	0.000	1.659	2.698	1.491	1.963	6.752
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:12:17	2.260	0.480	17.430	123.600	1263.000	0.630	5.551	2.203
2	18:12:25	1.791	0.468	17.970	125.800	1200.000	0.676	5.145	2.016
3	18:12:33	1.873	0.497	18.370	124.400	1168.000	0.575	4.817	2.370
x		1.975	0.482	17.920	124.600	1210.000	0.627	5.171	2.196
σ		0.250	0.014	0.472	1.124	48.230	0.051	0.367	0.177
%RSD		12.680	3.005	2.631	0.902	3.985	8.070	7.107	8.072
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:12:17	2.502	6.105	6.017	2.936	0.902	7.404	0.000	351.400
2	18:12:25	2.449	6.044	6.223	3.023	1.511	5.917	0.000	342.600
3	18:12:33	2.582	5.968	6.598	2.947	1.166	7.153	0.000	348.200
x		2.511	6.039	6.280	2.969	1.193	6.825	0.000	347.400
σ		0.067	0.069	0.295	0.047	0.306	0.796	0.000	4.428
%RSD		2.660	1.139	4.691	1.589	25.640	11.660	0.000	1.275
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:12:17	63.922%	3.671	3.433	55.193%	-0.329	-0.379	0.017	0.054
2	18:12:25	65.505%	3.135	3.452	55.822%	-0.317	-0.388	0.038	0.019
3	18:12:33	66.214%	3.156	3.311	55.988%	-0.343	-0.388	0.099	0.027
x		65.214%	3.321	3.399	55.667%	-0.330	-0.385	0.051	0.033
σ		1.173%	0.303	0.076	0.420%	0.013	0.005	0.043	0.018
%RSD		1.799	9.130	2.243	0.754	3.960	1.364	83.720	54.730
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:12:17	59.887%	-0.355	-0.021	-0.059	14.970	16.520	67.440%	67.807%
2	18:12:25	59.922%	-0.157	-0.004	-0.081	16.950	14.890	68.846%	70.564%
3	18:12:33	61.186%	-0.472	0.019	-0.053	16.170	15.700	70.870%	72.215%
x		60.332%	-0.328	-0.002	-0.064	16.030	15.700	69.052%	70.195%
σ		0.740%	0.160	0.020	0.015	0.998	0.818	1.724%	2.227%
%RSD		1.227	48.610	891.800	23.380	6.222	5.212	2.497	3.172
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:12:17	-0.023	-0.018	0.222	0.264	0.252	53.448%		
2	18:12:25	-0.012	-0.015	0.254	0.250	0.246	54.974%		
3	18:12:33	-0.019	-0.016	0.233	0.254	0.237	56.255%		
x		-0.018	-0.016	0.236	0.256	0.245	54.892%		
σ		0.006	0.002	0.017	0.007	0.007	1.405%		
%RSD		31.620	9.473	7.050	2.753	3.039	2.560		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:22	71.800%	-0.055	27.300	28.600	0.000	20060.000	7572.000	7610.000
2	18:17:30	67.650%	-0.048	30.580	28.360	0.000	20800.000	7485.000	7569.000
3	18:17:37	64.834%	-0.038	28.350	30.280	0.000	21950.000	7936.000	7869.000
x		68.095%	-0.047	28.740	29.080	0.000	20940.000	7664.000	7683.000
σ		3.505%	0.009	1.673	1.045	0.000	949.000	239.400	162.800
%RSD		5.147	18.030	5.821	3.593	0.000	4.532	3.124	2.119
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:22	175.600	2279.000	0.000	1677.000	27260.000	27230.000	65.201%	1.365
2	18:17:30	192.700	2500.000	0.000	1699.000	26210.000	26530.000	64.631%	1.348
3	18:17:37	196.200	2449.000	0.000	1750.000	27330.000	27950.000	62.957%	1.204
x		188.100	2409.000	0.000	1709.000	26930.000	27240.000	64.263%	1.306
σ		11.030	115.700	0.000	37.670	628.600	707.800	1.166%	0.088
%RSD		5.865	4.802	0.000	2.204	2.334	2.599	1.815	6.757
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:22	0.154	0.331	160.800	475.600	584.000	0.776	3.747	2.247
2	18:17:30	0.312	0.357	163.600	474.600	546.800	0.911	3.388	2.161
3	18:17:37	0.571	0.384	171.000	480.400	516.400	0.860	3.656	2.002
x		0.346	0.357	165.100	476.900	549.100	0.849	3.597	2.137
σ		0.211	0.027	5.272	3.108	33.880	0.068	0.187	0.124
%RSD		60.950	7.488	3.193	0.652	6.170	8.020	5.197	5.819
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:22	2.358	7.153	6.583	0.458	0.104	2.379	0.000	147.700
2	18:17:30	2.244	6.699	5.827	0.439	0.142	1.679	0.000	147.700
3	18:17:37	2.427	6.560	7.368	0.395	0.181	2.222	0.000	147.300
x		2.343	6.804	6.593	0.430	0.143	2.093	0.000	147.600
σ		0.093	0.310	0.770	0.032	0.038	0.367	0.000	0.229
%RSD		3.962	4.560	11.690	7.544	26.920	17.530	0.000	0.155
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:22	67.755%	0.927	1.051	63.851%	-0.333	-0.386	0.033	0.101
2	18:17:30	68.737%	0.864	0.843	65.537%	-0.341	-0.398	-0.004	0.052
3	18:17:37	69.340%	0.736	0.754	65.835%	-0.341	-0.395	0.069	0.006
x		68.611%	0.842	0.883	65.074%	-0.339	-0.393	0.033	0.053
σ		0.800%	0.097	0.152	1.070%	0.005	0.006	0.037	0.047
%RSD		1.166	11.570	17.250	1.644	1.390	1.558	112.700	88.940
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:17:22	66.296%	-0.702	-0.057	-0.149	41.090	41.620	75.068%	75.008%
2	18:17:30	67.774%	-0.682	-0.059	-0.151	42.390	38.830	74.874%	77.113%
3	18:17:37	68.071%	-0.815	-0.021	-0.045	38.760	38.910	76.170%	76.661%
x		67.380%	-0.733	-0.046	-0.115	40.750	39.780	75.371%	76.260%
σ		0.951%	0.072	0.022	0.061	1.837	1.587	0.699%	1.108%
%RSD		1.411	9.762	47.570	53.070	4.509	3.989	0.927	1.453
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:17:22	-0.010	-0.015	0.747	0.600	0.634	73.165%		
2	18:17:30	-0.022	-0.009	0.760	0.476	0.628	74.344%		
3	18:17:37	-0.013	-0.015	0.652	0.646	0.649	75.140%		
x		-0.015	-0.013	0.720	0.574	0.637	74.217%		
σ		0.006	0.003	0.059	0.088	0.011	0.994%		
%RSD		39.880	25.700	8.136	15.310	1.692	1.339		

CCV 1558997 5/8/2015 6:23:16 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:25	76.061%	100.200	87.390	86.470	0.000	52560.000	51160.000	50730.000
2	18:22:32	74.325%	99.850	94.180	92.570	0.000	51830.000	50110.000	51030.000
3	18:22:40	74.433%	98.400	88.150	84.250	0.000	53780.000	51730.000	52980.000
x		74.940%	99.476%	89.908%	87.763%	0.000	105.449%	102.007%	103.157%
σ		0.973%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.298	0.951	4.138	4.906	0.000	1.864	1.610	2.368

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:25	503.000	5856.000	0.000	53140.000	48340.000	49010.000	73.262%	103.800
2	18:22:32	495.900	5735.000	0.000	50380.000	49230.000	49010.000	74.243%	96.140
3	18:22:40	526.700	6055.000	0.000	51570.000	49320.000	49510.000	73.971%	104.700
x		101.708%	117.645%	0.000	103.392%	97.929%	98.354%	73.825%	101.544%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.506%	n/a
%RSD		3.170	2.749	0.000	2.678	1.102	0.586	0.685	4.626

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:25	101.200	101.700	520.600	25280.000	24160.000	102.200	104.500	103.200
2	18:22:32	101.300	103.500	523.700	26120.000	25450.000	105.200	105.200	106.400
3	18:22:40	101.400	104.000	534.000	26270.000	25230.000	103.400	106.100	107.300
x		101.344%	103.077%	105.219%	103.567%	99.777%	103.597%	105.288%	105.649%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.099	1.178	1.335	2.073	2.767	1.448	0.752	2.024

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:25	105.200	105.600	111.300	107.600	104.700	110.500	0.000	99.700
2	18:22:32	103.600	110.800	108.200	105.400	111.300	103.900	0.000	100.100
3	18:22:40	104.700	107.900	107.800	106.600	106.300	105.900	0.000	99.190
x		104.490%	108.100%	109.087%	106.529%	107.427%	106.780%	0.000	99.672%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.807	2.383	1.729	1.062	3.171	3.198	0.000	0.474

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:25	76.887%	105.100	102.800	69.915%	102.600	103.200	103.900	106.300
2	18:22:32	77.071%	104.400	105.900	69.971%	104.600	103.600	104.700	109.200
3	18:22:40	78.666%	107.000	108.200	70.590%	104.900	103.800	104.100	108.600
x		77.541%	105.486%	105.659%	70.159%	104.058%	103.550%	104.210%	108.024%
σ		0.978%	n/a	n/a	0.374%	n/a	n/a	n/a	n/a
%RSD		1.261	1.295	2.591	0.534	1.196	0.296	0.411	1.419

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:25	73.562%	100.300	103.000	102.200	98.100	101.900	78.951%	80.157%
2	18:22:32	73.275%	100.900	104.700	100.400	98.850	99.040	79.596%	79.874%
3	18:22:40	73.897%	103.500	104.600	102.900	102.000	98.620	80.841%	81.185%
x		73.578%	101.600%	104.128%	101.849%	99.660%	99.864%	79.796%	80.406%
σ		0.312%	n/a	n/a	n/a	n/a	n/a	0.961%	0.690%
%RSD		0.424	1.688	0.900	1.250	2.091	1.807	1.204	0.858

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:22:25	100.500	100.300	101.100	101.800	101.500	70.538%
2	18:22:32	101.400	100.800	102.400	103.200	101.900	70.025%
3	18:22:40	102.700	100.900	101.800	103.800	101.700	69.171%
x		101.539%	100.648%	101.759%	102.942%	101.713%	69.911%
σ		n/a	n/a	n/a	n/a	n/a	0.691%
%RSD		1.070	0.286	0.631	0.990	0.209	0.988

CCB6 5/8/2015 6:32:13 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:31:21	99.131%	-0.061	0.530	0.461	0.000	4.875	2.991	2.203
2	18:31:29	92.751%	-0.052	0.511	0.527	0.000	6.008	3.084	3.084
3	18:31:36	93.861%	-0.066	0.682	0.404	0.000	5.190	2.718	2.900
x		95.247%	-0.060	0.574	0.464	0.000	5.358	2.931	2.729
σ		3.409%	0.007	0.094	0.061	0.000	0.585	0.190	0.465
%RSD		3.579	12.310	16.310	13.220	0.000	10.920	6.489	17.040
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:31:21	1.012	-19.360	0.000	6.766	3.933	9.663	89.594%	-0.012
2	18:31:29	0.778	-17.800	0.000	6.091	-3.090	9.970	88.377%	0.033
3	18:31:36	1.039	-16.780	0.000	7.828	-0.687	10.580	86.110%	-0.074
x		0.943	-17.980	0.000	6.895	0.052	10.070	88.027%	-0.018
σ		0.143	1.298	0.000	0.876	3.569	0.468	1.768%	0.054
%RSD		15.200	7.219	0.000	12.700	6859.000	4.646	2.009	302.100
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:31:21	-0.011	-0.000	0.065	7.804	8.438	-0.002	0.050	0.020
2	18:31:29	0.012	0.015	0.042	8.099	6.442	0.016	0.003	0.013
3	18:31:36	0.005	0.016	0.058	6.384	8.119	0.006	0.042	0.039
x		0.002	0.010	0.055	7.429	7.666	0.007	0.032	0.024
σ		0.012	0.009	0.012	0.917	1.072	0.009	0.025	0.013
%RSD		534.000	89.990	21.590	12.340	13.990	131.100	79.310	55.750
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:31:21	0.041	0.606	1.008	-0.048	-0.022	0.655	0.000	0.005
2	18:31:29	0.076	0.663	0.937	-0.089	0.101	0.881	0.000	0.013
3	18:31:36	0.078	0.850	1.021	-0.077	0.009	0.880	0.000	0.013
x		0.065	0.707	0.989	-0.071	0.029	0.805	0.000	0.011
σ		0.021	0.127	0.045	0.021	0.064	0.130	0.000	0.004
%RSD		32.020	18.020	4.558	30.070	219.600	16.150	0.000	41.240
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:31:21	84.642%	0.191	0.191	80.615%	-0.298	-0.362	-0.004	0.008
2	18:31:29	85.051%	0.180	0.394	80.216%	-0.308	-0.369	-0.004	0.020
3	18:31:36	85.977%	0.270	0.328	82.865%	-0.321	-0.370	-0.005	0.001
x		85.224%	0.214	0.304	81.232%	-0.309	-0.367	-0.004	0.010
σ		0.684%	0.049	0.103	1.428%	0.011	0.004	0.000	0.010
%RSD		0.802	22.890	33.930	1.758	3.697	1.144	1.405	101.300
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:31:21	80.054%	-0.700	-0.065	-0.152	-0.020	0.028	83.918%	83.801%
2	18:31:29	82.282%	-0.651	-0.028	-0.163	0.016	0.027	84.738%	84.218%
3	18:31:36	83.402%	-0.729	-0.055	-0.205	0.016	0.026	85.637%	85.511%
x		81.913%	-0.693	-0.049	-0.173	0.004	0.027	84.765%	84.510%
σ		1.704%	0.039	0.019	0.028	0.021	0.001	0.860%	0.891%
%RSD		2.080	5.673	38.860	16.130	548.800	2.653	1.014	1.055
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:31:21	0.050	0.032	0.028	-0.010	0.015	84.406%		
2	18:31:29	0.029	0.016	-0.006	-0.014	0.008	86.698%		
3	18:31:36	0.020	0.042	-0.016	0.015	0.008	88.558%		
x		0.033	0.030	0.002	-0.003	0.011	86.554%		
σ		0.015	0.013	0.023	0.016	0.004	2.080%		
%RSD		46.820	42.850	1049.000	583.700	37.660	2.403		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:27	74.866%	-0.047	23.630	25.260	0.000	17760.000	6409.000	6435.000
2	18:36:35	70.978%	-0.040	23.820	26.100	0.000	19640.000	6756.000	6746.000
3	18:36:43	71.582%	-0.049	25.210	24.460	0.000	18670.000	6784.000	6789.000
x		72.476%	-0.045	24.220	25.270	0.000	18690.000	6650.000	6657.000
σ		2.092%	0.005	0.860	0.820	0.000	938.200	209.100	193.300
%RSD		2.887	11.120	3.552	3.244	0.000	5.020	3.145	2.904

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:27	24.170	1926.000	0.000	1557.000	24700.000	25280.000	69.446%	0.413
2	18:36:35	25.030	2086.000	0.000	1589.000	26070.000	26550.000	66.264%	0.353
3	18:36:43	24.550	2067.000	0.000	1584.000	24940.000	25590.000	67.304%	0.316
x		24.580	2026.000	0.000	1577.000	25240.000	25810.000	67.671%	0.361
σ		0.430	87.400	0.000	16.980	732.400	662.200	1.622%	0.049
%RSD		1.749	4.313	0.000	1.077	2.902	2.566	2.397	13.550

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:27	0.033	0.144	6.998	129.500	224.300	0.074	1.505	2.902
2	18:36:35	0.061	0.192	6.825	134.000	233.300	0.101	1.387	3.128
3	18:36:43	-0.139	0.154	6.874	135.400	217.000	0.108	1.512	3.235
x		-0.015	0.163	6.899	133.000	224.900	0.094	1.468	3.088
σ		0.108	0.025	0.089	3.047	8.162	0.018	0.070	0.170
%RSD		721.100	15.570	1.293	2.292	3.629	18.910	4.768	5.499

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:27	3.040	4.037	4.855	0.085	0.207	1.294	0.000	131.000
2	18:36:35	3.703	3.972	4.124	0.208	0.058	0.912	0.000	131.100
3	18:36:43	3.888	4.411	4.561	0.239	0.320	0.572	0.000	131.800
x		3.544	4.140	4.513	0.178	0.195	0.926	0.000	131.300
σ		0.446	0.237	0.368	0.082	0.131	0.361	0.000	0.405
%RSD		12.590	5.721	8.144	46.090	67.330	38.990	0.000	0.308

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:27	71.707%	0.879	0.778	67.429%	-0.342	-0.366	0.013	0.042
2	18:36:35	73.186%	0.524	0.704	68.865%	-0.339	-0.385	0.047	0.054
3	18:36:43	72.006%	0.852	0.745	69.189%	-0.346	-0.377	-0.005	-0.017
x		72.300%	0.752	0.742	68.495%	-0.342	-0.376	0.019	0.026
σ		0.782%	0.198	0.037	0.937%	0.004	0.010	0.026	0.038
%RSD		1.082	26.330	5.007	1.368	1.029	2.564	141.000	143.500

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:27	70.364%	-0.075	-0.069	-0.184	35.340	36.310	75.166%	76.885%
2	18:36:35	72.769%	-1.105	-0.057	-0.103	37.240	34.640	76.964%	77.466%
3	18:36:43	71.717%	-0.958	-0.086	-0.167	33.210	33.940	77.336%	78.300%
x		71.617%	-0.713	-0.071	-0.151	35.260	34.960	76.489%	77.550%
σ		1.206%	0.557	0.014	0.042	2.014	1.220	1.161%	0.711%
%RSD		1.684	78.150	20.290	28.040	5.712	3.490	1.517	0.917

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	18:36:27	-0.009	0.007	0.146	0.122	0.127	78.471%
2	18:36:35	-0.003	0.010	0.166	0.096	0.123	78.788%
3	18:36:43	0.024	0.011	0.113	0.121	0.125	78.981%
x		0.004	0.009	0.141	0.113	0.125	78.747%
σ		0.017	0.002	0.027	0.015	0.002	0.258%
%RSD		451.300	23.930	19.090	13.310	1.622	0.327

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:34	77.168%	-0.041	4.928	5.218	0.000	3756.000	1331.000	1381.000
2	18:41:41	77.228%	-0.063	5.111	5.358	0.000	3775.000	1373.000	1367.000
3	18:41:49	78.628%	-0.039	4.502	4.142	0.000	3747.000	1335.000	1355.000
x		77.674%	-0.048	4.847	4.906	0.000	3760.000	1346.000	1368.000
σ		0.826%	0.013	0.312	0.665	0.000	14.190	23.060	13.030
%RSD		1.064	27.870	6.442	13.560	0.000	0.378	1.712	0.952
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:34	5.588	375.100	0.000	296.000	4824.000	4769.000	74.752%	0.116
2	18:41:41	5.655	402.100	0.000	306.500	4774.000	4902.000	73.622%	0.068
3	18:41:49	5.690	403.500	0.000	295.600	4788.000	4838.000	73.374%	0.042
x		5.644	393.600	0.000	299.300	4795.000	4836.000	73.916%	0.076
σ		0.052	16.040	0.000	6.200	25.440	66.230	0.735%	0.038
%RSD		0.913	4.077	0.000	2.071	0.530	1.369	0.994	49.650
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:34	-0.060	0.012	1.328	25.360	40.920	0.026	0.278	0.764
2	18:41:41	-0.058	0.048	1.415	27.570	40.840	0.006	0.302	0.751
3	18:41:49	0.024	0.025	1.313	25.990	45.430	0.010	0.348	0.701
x		-0.031	0.028	1.352	26.310	42.390	0.014	0.309	0.739
σ		0.048	0.019	0.055	1.138	2.627	0.011	0.036	0.033
%RSD		152.200	65.690	4.087	4.324	6.196	75.820	11.490	4.516
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:34	0.619	2.168	1.855	-0.044	0.017	1.392	0.000	26.260
2	18:41:41	0.573	1.686	1.728	-0.064	-0.018	0.431	0.000	26.720
3	18:41:49	0.575	1.341	1.424	-0.071	0.052	1.137	0.000	25.790
x		0.589	1.731	1.669	-0.059	0.017	0.987	0.000	26.250
σ		0.026	0.415	0.222	0.014	0.035	0.498	0.000	0.465
%RSD		4.395	23.990	13.280	23.740	206.900	50.500	0.000	1.771
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:34	76.088%	0.112	0.111	72.564%	-0.336	-0.365	0.029	0.011
2	18:41:41	76.722%	0.110	0.259	72.576%	-0.320	-0.396	-0.005	-0.010
3	18:41:49	76.670%	0.171	0.154	72.715%	-0.340	-0.379	-0.005	0.011
x		76.494%	0.131	0.175	72.618%	-0.332	-0.380	0.007	0.004
σ		0.352%	0.035	0.076	0.084%	0.011	0.016	0.019	0.012
%RSD		0.460	26.540	43.570	0.116	3.249	4.117	291.600	317.800
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:41:34	74.064%	-1.233	-0.109	-0.188	7.310	6.702	78.469%	79.974%
2	18:41:41	74.898%	-1.102	-0.109	-0.162	6.669	6.972	78.324%	80.552%
3	18:41:49	73.594%	-1.094	-0.065	-0.179	7.836	7.711	79.052%	80.687%
x		74.185%	-1.143	-0.095	-0.176	7.272	7.128	78.615%	80.404%
σ		0.660%	0.078	0.025	0.013	0.584	0.522	0.386%	0.379%
%RSD		0.890	6.822	26.680	7.557	8.036	7.326	0.490	0.471
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:41:34	-0.016	-0.015	0.038	0.024	0.036	75.134%		
2	18:41:41	-0.010	-0.015	0.036	0.006	0.027	72.852%		
3	18:41:49	-0.013	-0.007	0.021	0.002	0.016	72.318%		
x		-0.013	-0.012	0.031	0.011	0.026	73.435%		
σ		0.003	0.004	0.009	0.012	0.010	1.496%		
%RSD		23.230	34.290	29.320	110.000	37.880	2.037		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:30	90.406%	-0.050	0.104	0.195	0.000	-0.477	0.263	0.261
2	18:50:37	86.933%	-0.079	0.331	0.179	0.000	-0.094	0.765	0.800
3	18:50:45	88.714%	-0.066	0.251	0.134	0.000	-0.278	0.384	0.948
x		88.685%	-0.065	0.229	0.170	0.000	-0.283	0.471	0.670
σ		1.737%	0.015	0.115	0.032	0.000	0.192	0.262	0.362
%RSD		1.958	22.560	50.290	18.760	0.000	67.740	55.640	53.980
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:30	0.694	-20.850	0.000	0.186	-0.318	7.491	83.692%	-0.003
2	18:50:37	0.829	-19.240	0.000	2.591	-5.345	5.063	79.047%	-0.068
3	18:50:45	0.761	-19.520	0.000	4.573	-6.445	6.829	78.373%	-0.117
x		0.761	-19.870	0.000	2.450	-4.036	6.461	80.371%	-0.063
σ		0.068	0.857	0.000	2.197	3.267	1.255	2.896%	0.057
%RSD		8.888	4.314	0.000	89.660	80.940	19.430	3.604	90.810
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:30	0.027	0.003	0.019	-1.989	-0.722	0.000	-0.013	-0.038
2	18:50:37	-0.011	-0.001	0.028	-1.743	-1.735	-0.004	0.050	0.016
3	18:50:45	-0.040	-0.007	0.024	-1.991	-0.352	0.003	-0.002	-0.019
x		-0.008	-0.001	0.024	-1.908	-0.937	-0.000	0.012	-0.014
σ		0.034	0.005	0.005	0.143	0.716	0.003	0.034	0.028
%RSD		422.000	367.700	20.500	7.488	76.450	3799.000	289.100	199.400
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:30	-0.001	0.696	0.928	-0.094	0.012	0.811	0.000	0.026
2	18:50:37	0.001	0.865	0.971	-0.081	0.012	-0.255	0.000	0.010
3	18:50:45	-0.081	0.820	0.588	-0.106	0.011	1.022	0.000	0.006
x		-0.027	0.793	0.829	-0.094	0.012	0.526	0.000	0.014
σ		0.047	0.087	0.209	0.013	0.001	0.684	0.000	0.011
%RSD		173.000	11.000	25.260	13.600	6.118	130.100	0.000	79.010
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:30	80.424%	-0.091	-0.045	76.833%	-0.347	-0.384	-0.005	-0.011
2	18:50:37	82.633%	-0.093	-0.033	77.758%	-0.322	-0.365	-0.004	-0.018
3	18:50:45	84.633%	-0.151	-0.036	79.974%	-0.326	-0.357	-0.005	-0.018
x		82.563%	-0.112	-0.038	78.188%	-0.332	-0.368	-0.004	-0.015
σ		2.106%	0.034	0.006	1.614%	0.013	0.014	0.000	0.004
%RSD		2.550	30.580	16.140	2.064	4.039	3.784	0.342	25.220
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:50:30	78.784%	-1.197	-0.104	-0.201	0.017	-0.019	83.148%	82.241%
2	18:50:37	80.535%	-1.139	-0.138	-0.203	0.017	0.004	82.814%	83.308%
3	18:50:45	81.760%	-1.254	-0.119	-0.245	-0.020	-0.019	84.472%	85.048%
x		80.360%	-1.197	-0.120	-0.216	0.005	-0.011	83.478%	83.533%
σ		1.496%	0.057	0.017	0.025	0.022	0.014	0.877%	1.417%
%RSD		1.861	4.792	14.150	11.470	466.900	120.900	1.051	1.696
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:50:30	-0.025	-0.016	-0.000	-0.023	-0.007	78.738%		
2	18:50:37	-0.020	-0.018	-0.008	-0.020	-0.005	81.793%		
3	18:50:45	-0.015	-0.019	-0.005	-0.006	0.002	81.880%		
x		-0.020	-0.018	-0.004	-0.016	-0.003	80.804%		
σ		0.005	0.002	0.004	0.009	0.005	1.789%		
%RSD		25.340	10.510	88.640	57.470	141.900	2.214		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:55:34	60.915%	41.690	797.300	804.800	0.000	55620.000	52500.000	52960.000
2	18:55:41	54.355%	47.470	907.000	896.900	0.000	57590.000	56750.000	55320.000
3	18:55:49	53.507%	46.060	903.100	850.000	0.000	60930.000	59550.000	56940.000
x		56.259%	45.070	869.100	850.500	0.000	58050.000	56270.000	55080.000
σ		4.055%	3.016	62.260	46.040	0.000	2684.000	3549.000	2003.000
%RSD		7.207	6.691	7.163	5.413	0.000	4.623	6.307	3.637
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:55:34	2020.000	11640.000	0.000	50560.000	46560.000	49180.000	55.333%	992.200
2	18:55:41	2110.000	11980.000	0.000	51580.000	47840.000	48700.000	57.394%	984.900
3	18:55:49	2206.000	13060.000	0.000	49970.000	48400.000	49290.000	54.710%	1030.000
x		2112.000	12230.000	0.000	50700.000	47600.000	49060.000	55.812%	1002.000
σ		93.140	743.300	0.000	814.200	945.700	309.500	1.405%	24.380
%RSD		4.410	6.080	0.000	1.606	1.987	0.631	2.517	2.432
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:55:34	549.200	214.400	550.100	1151.000	1219.000	544.600	514.900	263.700
2	18:55:41	528.700	207.400	543.100	1164.000	1243.000	536.200	526.900	264.000
3	18:55:49	557.300	219.200	569.800	1206.000	1272.000	544.500	522.700	262.500
x		545.000	213.700	554.400	1173.000	1245.000	541.800	521.500	263.400
σ		14.750	5.966	13.860	28.810	26.900	4.829	6.098	0.823
%RSD		2.706	2.792	2.500	2.455	2.162	0.891	1.169	0.312
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:55:34	260.200	531.600	519.800	43.150	9.564	12.770	0.000	1005.000
2	18:55:41	263.100	531.500	505.900	42.060	11.140	8.106	0.000	1014.000
3	18:55:49	270.100	533.700	523.200	44.000	9.426	11.920	0.000	1004.000
x		264.500	532.300	516.300	43.070	10.040	10.930	0.000	1008.000
σ		5.092	1.208	9.190	0.974	0.954	2.486	0.000	5.656
%RSD		1.925	0.227	1.780	2.262	9.501	22.740	0.000	0.561
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:55:34	62.892%	1098.000	1112.000	55.427%	52.160	53.960	55.740	99.080
2	18:55:41	63.210%	1114.000	1144.000	56.054%	50.810	52.690	53.940	97.810
3	18:55:49	64.449%	1112.000	1121.000	56.575%	50.510	51.060	52.880	95.500
x		63.517%	1108.000	1126.000	56.019%	51.160	52.570	54.190	97.460
σ		0.823%	8.990	16.240	0.575%	0.879	1.454	1.445	1.816
%RSD		1.295	0.811	1.443	1.026	1.717	2.767	2.667	1.863
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	18:55:34	57.999%	2163.000	530.200	525.900	1973.000	1977.000	69.107%	70.869%
2	18:55:41	58.716%	2159.000	536.500	522.500	1935.000	1923.000	71.405%	73.178%
3	18:55:49	59.910%	2149.000	523.000	524.800	1943.000	1956.000	71.186%	73.021%
x		58.875%	2157.000	529.900	524.400	1951.000	1952.000	70.566%	72.356%
σ		0.965%	7.468	6.738	1.731	20.170	27.110	1.268%	1.290%
%RSD		1.640	0.346	1.272	0.330	1.034	1.389	1.797	1.783
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	18:55:34	51.720	51.580	20.740	21.150	20.730	58.136%		
2	18:55:41	50.130	51.590	20.980	20.980	20.770	58.674%		
3	18:55:49	51.280	51.660	20.350	20.990	20.650	60.263%		
x		51.040	51.610	20.690	21.040	20.720	59.025%		
σ		0.823	0.047	0.314	0.095	0.058	1.106%		
%RSD		1.612	0.091	1.516	0.450	0.280	1.873		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:00:37	65.243%	-0.039	16.000	15.650	0.000	41.670	1.664	1.852
2	19:00:45	61.820%	-0.073	15.800	15.580	0.000	41.760	2.064	1.631
3	19:00:53	63.550%	-0.040	14.080	13.040	0.000	41.610	1.696	1.492
x		63.538%	-0.051	15.290	14.760	0.000	41.680	1.808	1.658
σ		1.712%	0.019	1.057	1.485	0.000	0.072	0.222	0.182
%RSD		2.694	37.790	6.914	10.070	0.000	0.173	12.300	10.940
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:00:37	8.527	64.930	0.000	9.816	28.090	26.960	61.781%	1.697
2	19:00:45	9.440	73.260	0.000	12.370	16.930	27.970	60.338%	1.614
3	19:00:53	9.424	71.550	0.000	10.930	19.820	30.090	57.841%	2.056
x		9.130	69.910	0.000	11.040	21.610	28.340	59.987%	1.789
σ		0.523	4.402	0.000	1.282	5.793	1.597	1.993%	0.235
%RSD		5.723	6.296	0.000	11.620	26.800	5.636	3.323	13.120
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:00:37	-1.084	0.899	0.214	6.301	5.155	0.040	0.053	0.360
2	19:00:45	-0.478	0.950	0.217	6.026	5.076	0.030	0.135	0.315
3	19:00:53	-1.027	0.880	0.234	5.788	5.327	0.039	0.126	0.322
x		-0.863	0.910	0.222	6.038	5.186	0.036	0.105	0.332
σ		0.335	0.036	0.011	0.257	0.128	0.005	0.045	0.024
%RSD		38.760	3.982	5.091	4.252	2.472	15.280	42.830	7.351
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:00:37	0.381	3.138	3.583	-0.032	-0.053	0.755	0.000	0.084
2	19:00:45	0.357	4.010	4.240	0.026	-0.053	0.463	0.000	0.085
3	19:00:53	0.612	4.330	3.317	0.057	-0.053	0.927	0.000	0.073
x		0.450	3.826	3.713	0.017	-0.053	0.715	0.000	0.081
σ		0.141	0.617	0.475	0.045	0.000	0.235	0.000	0.006
%RSD		31.300	16.120	12.800	265.300	0.000	32.820	0.000	7.845
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:00:37	68.148%	2.890	3.270	63.561%	-0.345	-0.371	-0.004	0.155
2	19:00:45	67.033%	2.717	2.309	65.309%	-0.334	-0.375	-0.004	0.100
3	19:00:53	68.866%	1.932	2.170	66.734%	-0.327	-0.383	0.014	0.060
x		68.016%	2.513	2.583	65.201%	-0.335	-0.376	0.002	0.105
σ		0.924%	0.511	0.599	1.590%	0.009	0.006	0.011	0.048
%RSD		1.359	20.320	23.190	2.438	2.690	1.705	647.000	45.510
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:00:37	66.256%	6.794	0.078	0.011	0.198	0.090	75.455%	76.510%
2	19:00:45	66.270%	4.413	0.054	-0.120	0.066	0.089	76.650%	78.408%
3	19:00:53	67.526%	3.550	-0.067	-0.093	0.108	0.114	77.404%	78.709%
x		66.684%	4.919	0.022	-0.067	0.124	0.098	76.503%	77.876%
σ		0.729%	1.680	0.078	0.069	0.067	0.014	0.982%	1.192%
%RSD		1.094	34.150	356.900	102.800	54.290	14.590	1.284	1.531
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:00:37	0.018	0.025	0.127	0.130	0.150	69.290%		
2	19:00:45	0.004	0.010	0.132	0.107	0.137	72.476%		
3	19:00:53	-0.007	0.017	0.140	0.139	0.136	72.314%		
x		0.005	0.018	0.133	0.125	0.141	71.360%		
σ		0.013	0.008	0.007	0.017	0.008	1.794%		
%RSD		246.800	43.040	4.916	13.370	5.621	2.514		

180-43733-D-1-A SD@5 5/8/2015 7:06:34 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:41	77.994%	-0.047	3.692	3.283	0.000	5.661	0.443	0.935
2	19:05:49	80.199%	-0.046	3.093	2.829	0.000	5.572	0.646	0.648
3	19:05:56	78.351%	-0.077	3.127	2.810	0.000	5.747	0.720	0.969
x		78.848%	-0.057	3.304	2.974	0.000	5.660	0.603	0.851
σ		1.183%	0.018	0.336	0.268	0.000	0.087	0.143	0.176
%RSD		1.501	31.300	10.170	9.004	0.000	1.544	23.730	20.710
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:41	3.307	-5.181	0.000	1.622	-1.479	8.599	76.502%	0.161
2	19:05:49	3.028	-2.322	0.000	1.301	5.042	7.915	74.317%	0.118
3	19:05:56	3.428	-1.330	0.000	2.299	-4.655	10.650	72.857%	-0.009
x		3.254	-2.944	0.000	1.741	-0.364	9.054	74.559%	0.090
σ		0.205	2.000	0.000	0.510	4.944	1.422	1.834%	0.088
%RSD		6.294	67.920	0.000	29.290	1357.000	15.700	2.460	98.340
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:41	-0.204	0.230	0.052	-0.787	1.515	0.010	0.087	0.019
2	19:05:49	0.063	0.230	0.073	-1.053	-1.563	0.003	0.045	0.084
3	19:05:56	0.083	0.245	0.057	-0.779	-0.763	0.008	0.014	0.088
x		-0.019	0.235	0.061	-0.873	-0.271	0.007	0.049	0.063
σ		0.160	0.008	0.011	0.156	1.597	0.003	0.037	0.039
%RSD		824.500	3.584	18.230	17.820	590.600	47.940	75.130	61.320
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:41	0.066	1.440	1.035	-0.105	-0.053	1.047	0.000	0.006
2	19:05:49	-0.001	1.344	1.458	-0.099	-0.053	-0.134	0.000	0.018
3	19:05:56	0.002	1.573	1.113	-0.065	-0.053	0.353	0.000	0.027
x		0.022	1.452	1.202	-0.089	-0.053	0.422	0.000	0.017
σ		0.038	0.115	0.225	0.022	0.000	0.594	0.000	0.010
%RSD		168.500	7.928	18.720	24.180	0.000	140.600	0.000	60.350
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:41	77.347%	0.340	0.280	76.369%	-0.334	-0.383	-0.004	0.016
2	19:05:49	79.480%	0.400	0.288	77.019%	-0.331	-0.384	-0.004	-0.017
3	19:05:56	78.593%	0.235	0.213	78.660%	-0.338	-0.371	-0.005	-0.011
x		78.473%	0.325	0.260	77.349%	-0.334	-0.379	-0.004	-0.004
σ		1.071%	0.083	0.041	1.180%	0.003	0.007	0.000	0.018
%RSD		1.365	25.620	15.710	1.526	1.016	1.893	0.402	449.100
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:05:41	76.603%	-0.301	-0.089	-0.191	-0.020	0.029	83.080%	84.807%
2	19:05:49	77.473%	-0.566	-0.083	-0.235	0.095	0.077	82.839%	83.450%
3	19:05:56	78.082%	-0.454	-0.104	-0.184	0.056	0.053	83.082%	83.912%
x		77.386%	-0.440	-0.092	-0.203	0.043	0.053	83.000%	84.056%
σ		0.743%	0.133	0.011	0.028	0.059	0.024	0.140%	0.690%
%RSD		0.960	30.270	11.620	13.670	135.200	45.210	0.168	0.821
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:05:41	-0.018	-0.015	0.015	0.015	0.024	83.819%		
2	19:05:49	-0.030	-0.021	0.007	0.003	0.020	87.161%		
3	19:05:56	-0.020	-0.025	-0.002	0.020	0.019	85.886%		
x		-0.023	-0.020	0.007	0.013	0.021	85.622%		
σ		0.007	0.005	0.009	0.009	0.003	1.686%		
%RSD		29.130	23.230	131.500	70.660	12.200	1.970		

180-43733-D-1-B MS 5/8/2015 7:11:39 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:46	53.480%	42.250	840.100	839.500	0.000	56660.000	54550.000	55300.000
2	19:10:54	56.035%	42.940	824.400	818.900	0.000	57940.000	56060.000	56330.000
3	19:11:02	55.149%	44.300	863.000	811.800	0.000	59940.000	55270.000	56310.000
x		54.888%	43.160	842.500	823.400	0.000	58180.000	55290.000	55980.000
σ		1.297%	1.040	19.450	14.390	0.000	1655.000	756.800	589.200
%RSD		2.363	2.409	2.309	1.747	0.000	2.845	1.369	1.052
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:46	2128.000	11870.000	0.000	49060.000	44900.000	46590.000	57.911%	957.800
2	19:10:54	2159.000	12220.000	0.000	51450.000	47810.000	48730.000	56.076%	1004.000
3	19:11:02	2159.000	12460.000	0.000	50230.000	47950.000	49320.000	56.352%	1009.000
x		2148.000	12180.000	0.000	50250.000	46890.000	48210.000	56.780%	990.200
σ		17.930	296.600	0.000	1198.000	1718.000	1434.000	0.989%	28.110
%RSD		0.835	2.434	0.000	2.384	3.665	2.975	1.742	2.839
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:46	520.100	205.100	536.700	1095.000	1151.000	514.300	517.100	251.600
2	19:10:54	560.900	214.800	548.800	1131.000	1183.000	540.800	533.800	260.400
3	19:11:02	543.000	211.600	560.000	1142.000	1167.000	527.400	513.700	258.300
x		541.300	210.500	548.500	1123.000	1167.000	527.500	521.500	256.800
σ		20.450	4.982	11.660	24.200	15.890	13.240	10.710	4.618
%RSD		3.777	2.366	2.126	2.156	1.362	2.509	2.054	1.799
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:46	251.000	510.200	526.600	42.090	9.811	10.430	0.000	991.800
2	19:10:54	257.800	534.600	525.500	43.350	11.160	9.769	0.000	1007.000
3	19:11:02	259.600	538.300	515.400	43.060	10.250	9.454	0.000	989.700
x		256.100	527.700	522.500	42.830	10.410	9.883	0.000	996.100
σ		4.549	15.260	6.156	0.659	0.689	0.496	0.000	9.265
%RSD		1.776	2.892	1.178	1.539	6.620	5.017	0.000	0.930
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:46	64.953%	1087.000	1089.000	58.365%	52.070	52.140	54.320	95.510
2	19:10:54	64.967%	1091.000	1106.000	57.943%	52.040	52.570	53.080	97.600
3	19:11:02	66.171%	1067.000	1092.000	59.111%	50.510	51.030	50.440	94.070
x		65.363%	1082.000	1096.000	58.473%	51.540	51.920	52.610	95.730
σ		0.700%	12.730	9.491	0.591%	0.893	0.794	1.983	1.775
%RSD		1.070	1.177	0.866	1.011	1.733	1.529	3.769	1.854
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:10:46	61.544%	2112.000	514.500	509.000	1911.000	1899.000	73.696%	74.568%
2	19:10:54	61.370%	2123.000	522.200	509.500	1914.000	1927.000	73.017%	75.590%
3	19:11:02	62.884%	2080.000	513.200	507.500	1898.000	1932.000	74.138%	75.852%
x		61.933%	2105.000	516.600	508.700	1908.000	1919.000	73.617%	75.337%
σ		0.828%	22.160	4.820	1.022	8.290	18.020	0.564%	0.678%
%RSD		1.337	1.053	0.933	0.201	0.435	0.939	0.766	0.900
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:10:46	50.690	50.210	20.660	20.530	20.370	64.132%		
2	19:10:54	50.530	50.780	20.920	20.970	20.650	63.437%		
3	19:11:02	49.180	50.470	20.340	20.650	20.520	63.286%		
x		50.130	50.480	20.640	20.710	20.510	63.619%		
σ		0.830	0.288	0.287	0.230	0.141	0.451%		
%RSD		1.655	0.570	1.388	1.110	0.689	0.710		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:15:54	59.431%	44.790	904.900	874.900	0.000	56320.000	53520.000	55220.000
2	19:16:01	54.491%	50.040	965.300	894.400	0.000	59500.000	55890.000	55860.000
3	19:16:09	56.031%	43.240	833.700	818.700	0.000	58870.000	57380.000	57000.000
x		56.651%	46.020	901.300	862.700	0.000	58230.000	55590.000	56030.000
σ		2.528%	3.565	65.870	39.290	0.000	1684.000	1947.000	899.900
%RSD		4.462	7.746	7.308	4.554	0.000	2.893	3.501	1.606
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:15:54	2167.000	11880.000	0.000	50800.000	48450.000	50310.000	57.223%	1025.000
2	19:16:01	2210.000	12430.000	0.000	51790.000	50070.000	51030.000	56.630%	1036.000
3	19:16:09	2202.000	12870.000	0.000	51340.000	50510.000	51680.000	55.819%	1030.000
x		2193.000	12390.000	0.000	51310.000	49680.000	51010.000	56.557%	1031.000
σ		22.530	496.800	0.000	497.200	1084.000	683.900	0.705%	5.425
%RSD		1.027	4.008	0.000	0.969	2.182	1.341	1.246	0.526
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:15:54	546.100	216.800	572.700	1121.000	1267.000	542.900	522.800	273.000
2	19:16:01	558.400	219.300	583.500	1142.000	1194.000	544.200	537.400	264.400
3	19:16:09	562.200	220.700	579.700	1168.000	1228.000	558.000	536.400	270.600
x		555.600	219.000	578.700	1144.000	1230.000	548.400	532.200	269.300
σ		8.396	1.954	5.459	23.810	36.330	8.339	8.193	4.460
%RSD		1.511	0.892	0.943	2.082	2.954	1.521	1.540	1.656
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:15:54	271.400	534.000	518.500	42.680	11.170	10.630	0.000	1012.000
2	19:16:01	270.000	524.300	528.300	42.310	11.300	12.540	0.000	1007.000
3	19:16:09	270.300	543.700	538.000	44.330	11.170	9.998	0.000	1030.000
x		270.600	534.000	528.300	43.100	11.210	11.060	0.000	1016.000
σ		0.778	9.719	9.747	1.077	0.075	1.324	0.000	12.160
%RSD		0.287	1.820	1.845	2.499	0.665	11.970	0.000	1.196
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:15:54	65.440%	1109.000	1119.000	56.605%	52.200	53.360	55.080	100.300
2	19:16:01	65.978%	1108.000	1121.000	57.548%	52.080	53.280	54.220	97.660
3	19:16:09	64.995%	1109.000	1127.000	57.949%	51.960	53.960	53.110	99.360
x		65.471%	1109.000	1122.000	57.367%	52.080	53.530	54.130	99.100
σ		0.492%	0.954	4.260	0.690%	0.121	0.370	0.984	1.331
%RSD		0.752	0.086	0.380	1.202	0.232	0.692	1.818	1.343
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:15:54	59.284%	2168.000	526.900	530.900	1989.000	1984.000	71.956%	72.791%
2	19:16:01	60.800%	2156.000	529.600	532.800	1953.000	1963.000	73.256%	73.724%
3	19:16:09	61.021%	2155.000	521.400	518.000	1963.000	1981.000	74.792%	74.679%
x		60.368%	2160.000	525.900	527.200	1968.000	1976.000	73.335%	73.731%
σ		0.946%	7.287	4.184	8.015	18.570	11.310	1.420%	0.944%
%RSD		1.567	0.337	0.796	1.520	0.943	0.572	1.936	1.280
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:15:54	52.970	51.810	20.760	21.410	21.170	58.412%		
2	19:16:01	52.450	52.980	21.200	20.780	20.870	59.751%		
3	19:16:09	52.570	51.870	21.150	20.690	20.950	60.866%		
x		52.670	52.220	21.040	20.960	21.000	59.676%		
σ		0.273	0.660	0.241	0.393	0.153	1.228%		
%RSD		0.518	1.265	1.144	1.876	0.726	2.059		

CCV 1558997 5/8/2015 7:27:03 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:26:10	88.818%	98.530	92.500	92.910	0.000	52150.000	49260.000	49000.000
2	19:26:17	82.855%	105.500	102.800	103.600	0.000	52440.000	50200.000	50800.000
3	19:26:25	90.639%	97.780	88.750	93.310	0.000	50310.000	49570.000	50290.000
x		87.437%	100.619%	94.669%	96.608%	0.000	103.265%	99.359%	100.058%
σ		4.072%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		4.657	4.259	7.667	6.272	0.000	2.242	0.963	1.856

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:26:10	477.700	5563.000	0.000	51240.000	48770.000	49090.000	85.294%	99.140
2	19:26:17	495.900	5705.000	0.000	51580.000	48810.000	47870.000	85.550%	102.000
3	19:26:25	487.700	5676.000	0.000	51850.000	50470.000	49770.000	83.758%	102.800
x		97.412%	112.963%	0.000	103.113%	98.699%	97.820%	84.868%	101.310%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.970%	n/a
%RSD		1.871	1.326	0.000	0.599	1.970	1.973	1.142	1.892

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:26:10	96.430	97.360	513.100	24060.000	23870.000	99.650	101.400	101.200
2	19:26:17	95.880	99.550	531.200	24710.000	24290.000	98.320	98.110	103.300
3	19:26:25	98.760	101.300	542.100	24330.000	24480.000	101.300	101.200	101.100
x		97.023%	99.401%	105.760%	97.467%	96.860%	99.756%	100.239%	101.846%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.577	1.982	2.773	1.334	1.284	1.498	1.842	1.198

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:26:10	104.400	105.800	107.700	104.800	110.000	105.700	0.000	100.400
2	19:26:17	103.400	104.400	105.200	102.900	107.300	103.600	0.000	97.710
3	19:26:25	105.400	106.800	103.500	105.800	104.700	105.600	0.000	98.970
x		104.400%	105.664%	105.486%	104.510%	107.329%	104.988%	0.000	99.023%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.979	1.123	2.007	1.397	2.478	1.141	0.000	1.356

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:26:10	80.780%	107.600	109.400	72.828%	103.700	103.000	106.300	109.000
2	19:26:17	82.687%	108.000	110.200	73.305%	104.600	106.100	106.600	105.900
3	19:26:25	84.732%	109.700	108.900	73.439%	103.100	104.100	104.800	106.700
x		82.733%	108.440%	109.504%	73.191%	103.791%	104.396%	105.907%	107.198%
σ		1.977%	n/a	n/a	0.321%	n/a	n/a	n/a	n/a
%RSD		2.389	0.997	0.598	0.439	0.748	1.493	0.914	1.523

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:26:10	75.408%	105.000	106.400	104.800	103.500	100.600	79.831%	81.629%
2	19:26:17	76.663%	104.600	106.900	106.500	102.600	99.940	81.102%	82.875%
3	19:26:25	77.784%	105.000	103.100	105.100	102.000	100.900	82.810%	82.837%
x		76.619%	104.877%	105.469%	105.473%	102.666%	100.474%	81.248%	82.447%
σ		1.188%	n/a	n/a	n/a	n/a	n/a	1.495%	0.709%
%RSD		1.551	0.196	1.923	0.860	0.751	0.478	1.840	0.860

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:26:10	104.800	103.000	104.900	104.300	104.300	63.537%
2	19:26:17	104.600	104.000	103.800	105.300	104.200	64.449%
3	19:26:25	101.300	102.400	102.700	103.800	102.400	65.666%
x		103.597%	103.105%	103.808%	104.451%	103.622%	64.551%
σ		n/a	n/a	n/a	n/a	n/a	1.068%
%RSD		1.880	0.783	1.017	0.729	0.987	1.655

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:35:10	99.829%	-0.057	1.364	1.244	0.000	2.361	3.379	3.126
2	19:35:17	97.940%	-0.049	1.450	1.072	0.000	2.529	3.451	2.708
3	19:35:25	95.938%	-0.050	1.157	1.027	0.000	2.651	3.127	3.193
x		97.903%	-0.052	1.324	1.114	0.000	2.514	3.319	3.009
σ		1.946%	0.004	0.151	0.115	0.000	0.146	0.170	0.263
%RSD		1.987	8.357	11.390	10.290	0.000	5.803	5.134	8.736
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:35:10	1.004	-15.090	0.000	7.922	-0.255	10.490	90.231%	-0.056
2	19:35:17	0.932	-16.250	0.000	4.808	8.879	11.750	94.382%	0.104
3	19:35:25	0.910	-15.930	0.000	5.718	7.485	11.130	91.911%	0.110
x		0.949	-15.750	0.000	6.149	5.370	11.120	92.175%	0.053
σ		0.049	0.600	0.000	1.601	4.921	0.629	2.088%	0.094
%RSD		5.192	3.811	0.000	26.040	91.630	5.651	2.265	178.800
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:35:10	0.010	0.010	0.082	9.304	11.900	0.009	0.020	0.068
2	19:35:17	0.035	0.014	0.100	7.826	7.728	0.011	0.043	0.038
3	19:35:25	0.021	0.015	0.068	6.690	8.521	0.005	0.018	0.040
x		0.022	0.013	0.083	7.940	9.384	0.009	0.027	0.049
σ		0.013	0.002	0.016	1.311	2.217	0.003	0.014	0.017
%RSD		56.730	18.980	19.530	16.510	23.630	32.510	53.240	34.000
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:35:10	0.003	0.860	0.948	-0.085	-0.023	0.455	0.000	0.023
2	19:35:17	0.015	0.792	0.675	-0.058	0.063	0.532	0.000	0.037
3	19:35:25	0.008	0.933	0.609	-0.030	0.149	0.589	0.000	0.037
x		0.009	0.862	0.744	-0.057	0.063	0.525	0.000	0.032
σ		0.006	0.071	0.180	0.027	0.086	0.067	0.000	0.008
%RSD		65.870	8.190	24.170	47.780	136.700	12.740	0.000	24.150
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:35:10	88.558%	0.516	0.611	89.046%	-0.324	-0.373	-0.005	0.005
2	19:35:17	90.229%	0.535	0.575	90.225%	-0.333	-0.362	0.023	-0.001
3	19:35:25	91.551%	0.641	0.513	89.753%	-0.302	-0.379	-0.005	0.032
x		90.112%	0.564	0.566	89.675%	-0.320	-0.371	0.005	0.012
σ		1.500%	0.068	0.050	0.593%	0.015	0.009	0.016	0.018
%RSD		1.665	11.990	8.781	0.662	4.825	2.321	346.200	146.700
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:35:10	87.955%	0.129	0.038	-0.170	0.014	0.046	89.873%	90.120%
2	19:35:17	90.050%	-0.141	0.064	-0.088	-0.020	0.045	88.892%	89.053%
3	19:35:25	91.689%	-0.374	0.019	-0.047	0.013	0.044	90.151%	91.927%
x		89.898%	-0.129	0.040	-0.102	0.002	0.045	89.639%	90.367%
σ		1.872%	0.251	0.022	0.063	0.020	0.001	0.661%	1.453%
%RSD		2.082	195.100	55.650	61.600	887.700	1.636	0.738	1.608
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:35:10	0.051	0.057	0.012	0.008	0.023	91.363%		
2	19:35:17	0.034	0.044	-0.013	0.010	0.006	92.383%		
3	19:35:25	0.038	0.046	0.020	0.007	0.022	92.948%		
x		0.041	0.049	0.006	0.008	0.017	92.231%		
σ		0.009	0.007	0.017	0.002	0.010	0.803%		
%RSD		21.320	14.220	275.700	22.320	56.830	0.871		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:21	100.531%	-0.076	0.565	0.536	0.000	-2.278	0.446	0.353
2	19:40:28	102.221%	-0.052	0.705	0.392	0.000	-2.321	0.298	0.441
3	19:40:36	102.075%	-0.050	0.471	0.417	0.000	-2.312	0.613	0.491
x		101.609%	-0.059	0.581	0.448	0.000	-2.304	0.452	0.429
σ		0.936%	0.015	0.118	0.077	0.000	0.023	0.158	0.070
%RSD		0.922	24.960	20.260	17.270	0.000	0.989	34.860	16.340

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:21	0.611	-18.970	0.000	1.180	-3.514	6.239	92.144%	0.047
2	19:40:28	0.354	-18.560	0.000	3.824	3.381	4.650	87.085%	0.014
3	19:40:36	0.538	-17.400	0.000	2.949	-3.278	6.655	90.012%	-0.013
x		0.501	-18.310	0.000	2.651	-1.137	5.848	89.747%	0.016
σ		0.133	0.818	0.000	1.347	3.915	1.058	2.540%	0.030
%RSD		26.430	4.468	0.000	50.800	344.300	18.100	2.830	189.400

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:21	0.023	-0.001	0.047	0.957	-0.051	0.006	0.037	-0.027
2	19:40:28	-0.007	0.001	0.029	1.206	0.557	0.006	-0.016	-0.036
3	19:40:36	-0.019	-0.005	0.026	0.969	-0.217	-0.002	0.047	-0.023
x		-0.001	-0.001	0.034	1.044	0.096	0.003	0.023	-0.028
σ		0.022	0.003	0.011	0.141	0.408	0.004	0.034	0.007
%RSD		1917.000	218.900	32.780	13.490	423.300	137.000	148.700	23.240

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:21	-0.013	0.739	0.853	-0.073	0.037	0.935	0.000	0.002
2	19:40:28	-0.027	1.100	1.028	-0.084	0.008	-0.049	0.000	0.002
3	19:40:36	-0.038	0.908	0.823	-0.056	-0.023	1.002	0.000	0.016
x		-0.026	0.916	0.901	-0.071	0.007	0.629	0.000	0.006
σ		0.012	0.181	0.111	0.014	0.030	0.588	0.000	0.008
%RSD		47.800	19.720	12.320	19.550	421.100	93.530	0.000	130.300

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:21	86.714%	0.210	0.404	84.660%	-0.339	-0.380	-0.004	0.007
2	19:40:28	87.326%	0.211	0.304	83.217%	-0.336	-0.365	-0.005	0.006
3	19:40:36	89.394%	0.277	0.322	84.479%	-0.322	-0.362	0.010	0.019
x		87.812%	0.233	0.343	84.119%	-0.333	-0.369	0.000	0.011
σ		1.404%	0.038	0.053	0.786%	0.009	0.010	0.008	0.007
%RSD		1.599	16.430	15.450	0.935	2.828	2.626	2261.000	68.270

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:21	84.026%	-0.503	0.008	-0.157	0.015	0.003	86.827%	87.438%
2	19:40:28	85.408%	-0.671	0.018	-0.048	-0.020	0.003	87.657%	86.920%
3	19:40:36	84.066%	-0.577	-0.069	-0.069	0.087	0.048	87.468%	86.849%
x		84.500%	-0.584	-0.014	-0.091	0.027	0.018	87.317%	87.069%
σ		0.787%	0.084	0.047	0.058	0.055	0.026	0.435%	0.322%
%RSD		0.931	14.410	330.300	63.330	200.500	142.100	0.498	0.370

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:40:21	-0.022	0.028	0.021	-0.008	0.002	78.641%
2	19:40:28	-0.001	0.002	0.007	-0.019	0.004	78.082%
3	19:40:36	0.008	0.004	-0.014	-0.000	0.004	76.892%
x		-0.005	0.011	0.004	-0.009	0.003	77.871%
σ		0.016	0.015	0.018	0.010	0.001	0.893%
%RSD		298.600	130.600	397.000	105.000	36.100	1.147

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:28	63.494%	43.320	812.700	823.800	0.000	54520.000	52380.000	51680.000
2	19:45:35	58.073%	45.000	918.300	881.900	0.000	57040.000	53810.000	53250.000
3	19:45:43	58.830%	44.580	817.500	835.200	0.000	59500.000	55550.000	55930.000
x		60.132%	44.300	849.500	847.000	0.000	57020.000	53910.000	53620.000
σ		2.936%	0.877	59.630	30.770	0.000	2489.000	1585.000	2150.000
%RSD		4.882	1.980	7.019	3.633	0.000	4.365	2.940	4.010

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:28	2066.000	8842.000	0.000	48510.000	45920.000	46320.000	61.605%	993.000
2	19:45:35	2166.000	9508.000	0.000	51010.000	49610.000	49260.000	60.097%	980.900
3	19:45:43	2245.000	9996.000	0.000	52190.000	49490.000	50840.000	58.793%	1018.000
x		2159.000	9448.000	0.000	50570.000	48340.000	48810.000	60.165%	997.300
σ		89.490	579.500	0.000	1879.000	2096.000	2294.000	1.407%	18.890
%RSD		4.145	6.134	0.000	3.715	4.336	4.700	2.339	1.894

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:28	533.700	205.100	553.000	1146.000	1230.000	529.800	508.300	256.000
2	19:45:35	541.400	213.300	563.000	1177.000	1205.000	542.900	526.400	264.400
3	19:45:43	541.600	216.800	589.600	1188.000	1261.000	555.300	526.100	260.300
x		538.900	211.700	568.500	1170.000	1232.000	542.700	520.200	260.200
σ		4.508	6.024	18.910	21.990	28.380	12.720	10.390	4.216
%RSD		0.837	2.845	3.325	1.880	2.304	2.344	1.996	1.620

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:28	257.300	450.000	450.100	38.710	8.271	7.194	0.000	1038.000
2	19:45:35	258.900	463.700	462.800	38.030	8.996	8.857	0.000	1002.000
3	19:45:43	260.300	477.000	467.900	39.020	8.228	12.030	0.000	1030.000
x		258.800	463.600	460.200	38.580	8.498	9.360	0.000	1023.000
σ		1.528	13.490	9.169	0.507	0.431	2.457	0.000	18.840
%RSD		0.590	2.910	1.992	1.313	5.077	26.250	0.000	1.841

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:28	65.181%	1101.000	1115.000	57.866%	51.630	52.440	51.290	95.180
2	19:45:35	67.122%	1092.000	1113.000	58.617%	51.880	51.880	52.820	94.430
3	19:45:43	66.776%	1123.000	1124.000	59.036%	52.590	52.060	52.080	96.410
x		66.360%	1106.000	1117.000	58.506%	52.040	52.130	52.060	95.340
σ		1.036%	16.120	5.967	0.592%	0.496	0.284	0.766	0.998
%RSD		1.560	1.458	0.534	1.013	0.953	0.545	1.472	1.047

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:28	61.201%	2130.000	483.900	484.000	1992.000	1997.000	71.858%	73.178%
2	19:45:35	61.856%	2136.000	484.900	479.400	1994.000	1988.000	73.760%	75.250%
3	19:45:43	61.978%	2176.000	486.600	483.300	2008.000	2004.000	75.822%	77.612%
x		61.679%	2148.000	485.100	482.300	1998.000	1996.000	73.813%	75.347%
σ		0.418%	24.970	1.382	2.494	9.056	7.940	1.983%	2.219%
%RSD		0.677	1.163	0.285	0.517	0.453	0.398	2.686	2.944

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:45:28	54.610	53.780	21.810	22.860	22.400	58.463%
2	19:45:35	53.660	53.010	21.840	21.880	21.660	61.160%
3	19:45:43	54.310	54.100	22.430	22.770	22.270	61.555%
x		54.190	53.630	22.020	22.500	22.110	60.393%
σ		0.483	0.559	0.349	0.542	0.394	1.683%
%RSD		0.891	1.042	1.583	2.410	1.780	2.786

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:35	51.505%	1.230	341.600	323.900	0.000	975.700	64010.000	63020.000
2	19:50:42	49.838%	1.163	324.900	333.100	0.000	1022.000	65320.000	65640.000
3	19:50:50	49.545%	1.210	311.400	299.300	0.000	1007.000	66200.000	64940.000
x		50.296%	1.201	326.000	318.700	0.000	1001.000	65180.000	64530.000
σ		1.057%	0.034	15.150	17.490	0.000	23.410	1103.000	1360.000
%RSD		2.101	2.856	4.648	5.487	0.000	2.338	1.692	2.107
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:35	17970.000	5673.000	0.000	549.200	638600.000	622600.000	56.707%	843.200
2	19:50:42	18700.000	6066.000	0.000	579.000	652500.000	630400.000	54.842%	889.600
3	19:50:50	19520.000	6085.000	0.000	584.500	671200.000	670100.000	52.625%	834.400
x		18730.000	5941.000	0.000	570.900	654100.000	641000.000	54.725%	855.700
σ		774.600	232.600	0.000	19.010	16350.000	25480.000	2.043%	29.620
%RSD		4.136	3.915	0.000	3.330	2.500	3.974	3.734	3.462
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:35	27.400	86.310	885.000	15070.000	16180.000	11.100	65.290	54.810
2	19:50:42	28.580	86.880	936.300	15200.000	16430.000	11.300	67.920	53.710
3	19:50:50	32.220	89.910	949.400	15390.000	16820.000	11.290	67.700	57.070
x		29.400	87.700	923.600	15220.000	16480.000	11.230	66.970	55.190
σ		2.512	1.934	34.060	157.000	323.300	0.113	1.458	1.714
%RSD		8.545	2.205	3.688	1.032	1.962	1.004	2.177	3.105
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:35	54.360	314.800	321.400	26.980	4.772	4.339	0.000	594.500
2	19:50:42	56.760	325.300	330.100	27.230	6.576	4.655	0.000	605.800
3	19:50:50	57.110	330.500	330.800	27.220	5.144	4.791	0.000	611.400
x		56.080	323.500	327.400	27.140	5.497	4.595	0.000	603.900
σ		1.497	8.012	5.211	0.142	0.952	0.232	0.000	8.573
%RSD		2.670	2.476	1.592	0.524	17.330	5.039	0.000	1.420
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:35	0.000	6.942	6.645	53.106%	-0.193	-0.287	1.542	2.279
2	19:50:42	0.000	6.539	6.210	53.466%	-0.203	-0.270	1.100	2.437
3	19:50:50	0.000	5.576	5.742	52.801%	-0.234	-0.283	1.511	2.264
x		0.000	6.352	6.199	53.124%	-0.210	-0.280	1.384	2.327
σ		0.000	0.702	0.452	0.333%	0.021	0.009	0.246	0.096
%RSD		0.000	11.040	7.284	0.627	10.060	3.249	17.800	4.110
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:50:35	58.628%	47.360	1.349	1.415	197.700	193.500	70.361%	72.645%
2	19:50:42	58.872%	46.910	1.104	1.232	196.400	196.700	69.828%	71.554%
3	19:50:50	59.343%	44.690	1.226	1.286	196.300	198.400	70.515%	71.158%
x		58.947%	46.320	1.226	1.311	196.800	196.200	70.235%	71.786%
σ		0.363%	1.429	0.123	0.094	0.811	2.466	0.361%	0.770%
%RSD		0.616	3.084	9.989	7.176	0.412	1.257	0.514	1.073
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:50:35	1.125	1.106	16.260	15.560	15.630	60.827%		
2	19:50:42	1.120	1.206	16.080	15.200	15.480	61.463%		
3	19:50:50	1.113	1.120	16.670	15.220	15.500	59.040%		
x		1.120	1.144	16.340	15.330	15.530	60.443%		
σ		0.006	0.054	0.305	0.203	0.081	1.256%		
%RSD		0.540	4.742	1.865	1.327	0.524	2.078		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:41	68.205%	0.345	97.550	94.140	0.000	269.200	17840.000	17950.000
2	19:55:48	66.922%	0.319	99.270	95.600	0.000	268.700	18470.000	17820.000
3	19:55:56	64.147%	0.314	98.240	97.410	0.000	276.000	18130.000	18230.000
x		66.425%	0.326	98.360	95.720	0.000	271.300	18150.000	18000.000
σ		2.074%	0.017	0.866	1.635	0.000	4.074	316.000	207.800
%RSD		3.123	5.110	0.880	1.708	0.000	1.502	1.741	1.154
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:41	5138.000	1545.000	0.000	163.900	178300.000	176300.000	68.254%	253.000
2	19:55:48	5024.000	1538.000	0.000	160.900	177500.000	178500.000	67.029%	252.100
3	19:55:56	5397.000	1563.000	0.000	185.300	184400.000	182300.000	66.466%	265.700
x		5187.000	1549.000	0.000	170.000	180100.000	179000.000	67.249%	256.900
σ		191.000	12.860	0.000	13.270	3800.000	3030.000	0.914%	7.582
%RSD		3.682	0.831	0.000	7.804	2.110	1.692	1.360	2.951
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:41	7.877	23.490	249.400	3892.000	4349.000	2.765	19.660	15.820
2	19:55:48	7.998	23.550	263.000	3966.000	4383.000	2.884	17.350	15.870
3	19:55:56	6.923	23.470	264.300	3975.000	4419.000	2.868	18.440	15.740
x		7.599	23.500	258.900	3944.000	4384.000	2.839	18.480	15.810
σ		0.589	0.038	8.273	45.390	35.010	0.065	1.156	0.067
%RSD		7.749	0.162	3.196	1.151	0.799	2.286	6.257	0.423
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:41	15.610	93.110	95.890	5.417	1.916	1.223	0.000	141.800
2	19:55:48	14.960	95.570	94.050	5.097	1.219	2.205	0.000	142.500
3	19:55:56	15.610	93.820	96.800	4.948	1.501	1.667	0.000	139.500
x		15.400	94.170	95.580	5.154	1.545	1.698	0.000	141.200
σ		0.374	1.268	1.402	0.240	0.350	0.492	0.000	1.583
%RSD		2.432	1.347	1.467	4.655	22.670	28.960	0.000	1.121
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:41	71.869%	1.377	1.281	62.409%	-0.317	-0.354	0.611	0.707
2	19:55:48	71.629%	1.197	1.584	62.986%	-0.310	-0.339	0.297	0.665
3	19:55:56	72.932%	1.429	1.319	63.816%	-0.280	-0.340	0.464	0.726
x		72.143%	1.334	1.395	63.071%	-0.302	-0.345	0.457	0.699
σ		0.693%	0.121	0.165	0.707%	0.020	0.008	0.157	0.031
%RSD		0.961	9.093	11.820	1.121	6.520	2.416	34.350	4.417
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:55:41	65.042%	12.170	0.285	0.179	53.070	57.420	74.980%	76.199%
2	19:55:48	66.804%	11.320	0.275	0.169	56.060	55.180	75.094%	77.263%
3	19:55:56	66.872%	11.240	0.202	0.127	56.630	54.670	76.740%	77.417%
x		66.239%	11.570	0.254	0.158	55.250	55.760	75.605%	76.960%
σ		1.037%	0.518	0.045	0.027	1.912	1.463	0.985%	0.663%
%RSD		1.566	4.478	17.740	17.300	3.460	2.623	1.303	0.861
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	19:55:41	0.290	0.283	4.338	4.407	4.082	62.162%		
2	19:55:48	0.287	0.281	4.587	4.008	4.137	64.194%		
3	19:55:56	0.270	0.301	4.454	3.889	4.176	63.663%		
x		0.282	0.289	4.460	4.101	4.131	63.340%		
σ		0.011	0.011	0.124	0.271	0.047	1.054%		
%RSD		3.885	3.948	2.785	6.615	1.143	1.664		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:45	50.188%	42.440	1111.000	1048.000	0.000	49140.000	113100.000	108200.000
2	20:00:53	41.296%	45.140	1136.000	1169.000	0.000	54670.000	122900.000	124900.000
3	20:01:00	42.473%	41.260	1121.000	1019.000	0.000	56340.000	123900.000	124700.000
x		44.652%	42.950	1123.000	1079.000	0.000	53380.000	119900.000	119300.000
σ		4.830%	1.985	12.940	79.590	0.000	3770.000	5975.000	9602.000
%RSD		10.816	4.622	1.153	7.376	0.000	7.062	4.981	8.052

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:45	23300.000	6543.000	0.000	48680.000	758600.000	743200.000	53.512%	1820.000
2	20:00:53	26320.000	7540.000	0.000	50010.000	778100.000	777700.000	50.508%	1913.000
3	20:01:00	26690.000	7425.000	0.000	47950.000	804400.000	782700.000	48.952%	1891.000
x		25430.000	7170.000	0.000	48880.000	780400.000	767900.000	50.991%	1875.000
σ		1861.000	545.700	0.000	1046.000	22980.000	21500.000	2.318%	48.440
%RSD		7.317	7.611	0.000	2.139	2.944	2.800	4.547	2.584

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:45	518.200	283.900	1401.000	15640.000	17600.000	486.300	529.200	286.300
2	20:00:53	551.600	294.100	1446.000	16580.000	18430.000	518.800	550.900	296.800
3	20:01:00	570.800	310.400	1472.000	16590.000	18850.000	528.900	558.100	298.500
x		546.900	296.100	1439.000	16270.000	18290.000	511.300	546.000	293.900
σ		26.630	13.380	36.090	541.800	639.000	22.260	15.040	6.637
%RSD		4.870	4.517	2.507	3.330	3.493	4.353	2.754	2.259

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:45	288.500	739.200	744.400	68.900	14.590	14.110	0.000	1759.000
2	20:00:53	301.600	771.900	757.800	70.800	14.090	14.440	0.000	1792.000
3	20:01:00	305.000	779.100	774.100	71.080	16.030	17.360	0.000	1840.000
x		298.400	763.400	758.700	70.260	14.900	15.300	0.000	1797.000
σ		8.680	21.260	14.910	1.185	1.006	1.788	0.000	40.450
%RSD		2.909	2.784	1.965	1.687	6.748	11.680	0.000	2.251

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:45	0.000	1129.000	1109.000	49.404%	45.290	44.340	46.820	88.440
2	20:00:53	0.000	1143.000	1149.000	48.853%	45.360	45.200	47.720	86.880
3	20:01:00	0.000	1165.000	1160.000	49.889%	45.240	45.120	46.870	89.320
x		0.000	1146.000	1140.000	49.382%	45.300	44.890	47.130	88.210
σ		0.000	18.030	26.730	0.518%	0.059	0.477	0.506	1.234
%RSD		0.000	1.573	2.345	1.050	0.131	1.063	1.074	1.398

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:45	54.520%	1980.000	431.400	443.400	2060.000	2038.000	65.288%	67.648%
2	20:00:53	55.430%	1955.000	436.900	426.100	2039.000	2038.000	67.388%	68.468%
3	20:01:00	55.439%	1994.000	435.600	431.600	2019.000	2049.000	67.517%	68.679%
x		55.130%	1977.000	434.600	433.700	2039.000	2042.000	66.731%	68.265%
σ		0.528%	19.720	2.859	8.868	20.350	6.265	1.251%	0.544%
%RSD		0.958	0.998	0.658	2.045	0.998	0.307	1.875	0.797

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:00:45	52.000	51.320	38.960	37.820	38.010	55.352%
2	20:00:53	52.280	52.690	40.620	37.190	38.760	56.146%
3	20:01:00	51.850	52.450	38.970	38.810	38.810	56.688%
x		52.050	52.150	39.520	37.940	38.520	56.062%
σ		0.221	0.730	0.958	0.818	0.448	0.672%
%RSD		0.424	1.400	2.423	2.156	1.164	1.198

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:51	44.607%	42.180	1101.000	1055.000	0.000	54750.000	118600.000	120300.000
2	20:05:58	40.958%	44.180	1120.000	1120.000	0.000	58490.000	123600.000	126100.000
3	20:06:06	41.727%	40.470	1065.000	1070.000	0.000	59370.000	125900.000	128500.000
x		42.430%	42.280	1095.000	1082.000	0.000	57530.000	122700.000	125000.000
σ		1.924%	1.859	27.940	33.790	0.000	2452.000	3710.000	4187.000
%RSD		4.534	4.397	2.551	3.123	0.000	4.262	3.024	3.351

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:51	24730.000	7472.000	0.000	49830.000	727000.000	725700.000	48.887%	1903.000
2	20:05:58	26620.000	7923.000	0.000	51080.000	743600.000	727600.000	48.035%	1915.000
3	20:06:06	27280.000	8191.000	0.000	52450.000	756700.000	744500.000	46.675%	1923.000
x		26210.000	7862.000	0.000	51120.000	742400.000	732600.000	47.866%	1914.000
σ		1322.000	363.300	0.000	1307.000	14880.000	10330.000	1.116%	10.270
%RSD		5.045	4.621	0.000	2.557	2.005	1.410	2.331	0.537

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:51	561.700	303.900	1410.000	15920.000	17930.000	540.800	560.000	292.500
2	20:05:58	600.700	309.500	1493.000	16380.000	18210.000	551.700	590.700	302.000
3	20:06:06	598.700	313.100	1469.000	16530.000	17660.000	554.700	593.300	307.500
x		587.000	308.800	1457.000	16280.000	17930.000	549.100	581.400	300.700
σ		22.010	4.646	42.650	317.900	272.300	7.322	18.510	7.582
%RSD		3.749	1.504	2.927	1.953	1.518	1.334	3.185	2.522

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:51	298.200	778.300	764.600	72.260	15.000	12.080	0.000	1817.000
2	20:05:58	302.200	782.100	765.800	72.800	14.270	10.920	0.000	1819.000
3	20:06:06	311.400	789.900	763.500	71.000	14.060	15.740	0.000	1847.000
x		303.900	783.400	764.600	72.020	14.450	12.920	0.000	1828.000
σ		6.766	5.928	1.151	0.921	0.495	2.513	0.000	16.660
%RSD		2.226	0.757	0.150	1.279	3.429	19.450	0.000	0.912

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:51	0.000	1201.000	1187.000	48.759%	48.350	48.250	51.990	94.710
2	20:05:58	0.000	1169.000	1187.000	49.625%	48.050	47.310	50.340	93.330
3	20:06:06	0.000	1181.000	1178.000	49.688%	47.090	47.710	49.600	91.340
x		0.000	1184.000	1184.000	49.358%	47.830	47.760	50.650	93.130
σ		0.000	16.070	5.053	0.519%	0.658	0.471	1.224	1.692
%RSD		0.000	1.358	0.427	1.052	1.375	0.987	2.417	1.817

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:51	53.882%	2111.000	466.100	465.900	2123.000	2136.000	64.454%	66.310%
2	20:05:58	55.072%	2079.000	454.600	450.200	2094.000	2112.000	66.579%	66.802%
3	20:06:06	54.908%	2087.000	455.100	451.700	2137.000	2132.000	65.632%	66.259%
x		54.621%	2092.000	458.600	455.900	2118.000	2127.000	65.555%	66.457%
σ		0.645%	16.310	6.496	8.704	21.600	12.580	1.065%	0.300%
%RSD		1.180	0.779	1.417	1.909	1.020	0.592	1.624	0.451

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:05:51	53.860	53.670	37.830	37.160	37.250	58.907%
2	20:05:58	55.080	54.260	39.440	36.830	37.460	58.997%
3	20:06:06	55.030	53.780	38.270	35.850	36.800	58.867%
x		54.660	53.900	38.510	36.610	37.170	58.923%
σ		0.693	0.317	0.836	0.682	0.336	0.067%
%RSD		1.268	0.588	2.170	1.863	0.903	0.113

CCV 1558997 5/8/2015 8:11:49 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:56	85.029%	97.590	95.010	94.270	0.000	48050.000	49350.000	48310.000
2	20:11:04	83.587%	100.600	93.760	93.390	0.000	51400.000	49740.000	49480.000
3	20:11:11	82.771%	102.200	101.500	97.850	0.000	51810.000	50950.000	50800.000
x		83.796%	100.130%	96.769%	95.171%	0.000	100.835%	100.024%	99.063%
σ		1.144%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.365	2.341	4.309	2.478	0.000	4.092	1.667	2.519
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:56	474.000	5552.000	0.000	49900.000	46780.000	46840.000	82.257%	101.100
2	20:11:04	509.300	5732.000	0.000	51150.000	49920.000	49050.000	80.344%	102.100
3	20:11:11	502.700	5925.000	0.000	51530.000	51080.000	50080.000	79.436%	104.900
x		99.067%	114.720%	0.000	101.720%	98.521%	97.314%	80.679%	102.676%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.440%	n/a
%RSD		3.795	3.249	0.000	1.679	4.526	3.404	1.785	1.895
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:56	97.320	99.050	514.100	23600.000	23330.000	97.770	97.620	100.500
2	20:11:04	99.780	99.650	535.500	24220.000	23870.000	103.000	102.400	104.600
3	20:11:11	96.950	99.870	550.100	24800.000	24980.000	103.200	103.600	102.900
x		98.018%	99.523%	106.646%	96.833%	96.240%	101.314%	101.192%	102.653%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.568	0.423	3.391	2.494	3.477	3.029	3.109	2.041
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:56	102.300	107.800	104.300	105.000	105.100	103.900	0.000	99.680
2	20:11:04	102.900	108.900	107.600	105.400	107.000	109.400	0.000	97.540
3	20:11:11	105.900	111.600	108.600	106.700	105.500	110.600	0.000	98.080
x		103.717%	109.428%	106.836%	105.700%	105.842%	107.961%	0.000	98.431%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.868	1.773	2.083	0.870	0.970	3.320	0.000	1.128
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:56	78.272%	106.600	108.200	68.474%	104.500	102.700	104.000	107.400
2	20:11:04	79.411%	111.700	108.600	68.629%	105.500	105.000	103.000	107.700
3	20:11:11	79.808%	106.000	110.100	68.726%	102.900	104.200	104.800	103.500
x		79.164%	108.118%	109.001%	68.610%	104.290%	103.947%	103.931%	106.227%
σ		0.797%	n/a	n/a	0.127%	n/a	n/a	n/a	n/a
%RSD		1.007	2.893	0.914	0.185	1.219	1.151	0.891	2.200
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:56	71.767%	104.700	104.400	105.000	100.400	103.200	77.270%	77.259%
2	20:11:04	71.755%	106.200	106.300	106.300	102.900	105.400	77.701%	78.674%
3	20:11:11	73.452%	102.500	104.300	102.900	104.700	104.900	78.194%	78.720%
x		72.325%	104.461%	104.996%	104.738%	102.692%	104.513%	77.722%	78.218%
σ		0.976%	n/a	n/a	n/a	n/a	n/a	0.462%	0.830%
%RSD		1.350	1.811	1.089	1.609	2.109	1.115	0.595	1.062
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:10:56	106.100	103.500	105.700	105.300	104.800	58.068%		
2	20:11:04	104.200	103.900	103.700	105.200	104.200	58.685%		
3	20:11:11	106.000	105.900	106.500	107.600	106.200	57.706%		
x		105.442%	104.438%	105.290%	106.019%	105.061%	58.153%		
σ		n/a	n/a	n/a	n/a	n/a	0.495%		
%RSD		0.992	1.187	1.363	1.253	0.952	0.851		

CCB8 5/8/2015 8:20:51 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:19:57	91.503%	-0.070	1.716	1.495	0.000	3.016	4.740	3.519
2	20:20:04	97.089%	-0.084	1.570	1.328	0.000	3.201	3.865	4.163
3	20:20:12	87.936%	-0.058	1.815	1.494	0.000	3.951	5.472	5.640
x		92.176%	-0.070	1.700	1.439	0.000	3.389	4.692	4.441
σ		4.613%	0.013	0.123	0.096	0.000	0.495	0.805	1.088
%RSD		5.005	18.440	7.229	6.684	0.000	14.600	17.150	24.490
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:19:57	0.970	-20.030	0.000	7.938	14.360	17.270	88.975%	0.227
2	20:20:04	0.776	-17.320	0.000	7.216	10.570	14.910	87.761%	0.210
3	20:20:12	1.074	-17.170	0.000	9.454	3.043	12.120	83.318%	0.344
x		0.940	-18.170	0.000	8.203	9.322	14.770	86.685%	0.260
σ		0.152	1.610	0.000	1.142	5.760	2.580	2.979%	0.073
%RSD		16.120	8.857	0.000	13.920	61.780	17.470	3.436	28.120
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:19:57	0.027	0.022	0.068	10.550	9.437	0.024	0.080	0.063
2	20:20:04	0.022	0.010	0.089	9.703	10.610	0.022	0.081	-0.010
3	20:20:12	0.042	0.028	0.099	9.335	10.460	0.017	0.025	0.064
x		0.030	0.020	0.085	9.863	10.170	0.021	0.062	0.039
σ		0.010	0.009	0.016	0.624	0.636	0.004	0.032	0.042
%RSD		34.550	47.150	18.280	6.327	6.254	17.660	51.100	108.000
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:19:57	-0.025	0.816	0.952	-0.058	0.010	0.791	0.000	0.033
2	20:20:04	-0.050	0.729	0.903	-0.077	0.103	0.731	0.000	0.037
3	20:20:12	0.004	1.333	0.947	-0.089	0.010	1.018	0.000	0.044
x		-0.024	0.959	0.934	-0.074	0.041	0.847	0.000	0.038
σ		0.027	0.326	0.027	0.015	0.054	0.152	0.000	0.005
%RSD		115.000	34.010	2.880	20.460	131.900	17.900	0.000	14.250
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:19:57	82.711%	0.468	0.488	82.853%	-0.321	-0.373	-0.004	0.019
2	20:20:04	83.452%	0.309	0.496	83.362%	-0.310	-0.368	-0.005	0.006
3	20:20:12	84.959%	0.431	0.344	84.425%	-0.313	-0.371	-0.005	0.000
x		83.707%	0.403	0.442	83.547%	-0.315	-0.371	-0.005	0.008
σ		1.146%	0.083	0.086	0.802%	0.006	0.003	0.000	0.010
%RSD		1.369	20.610	19.390	0.960	1.837	0.733	1.338	116.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:19:57	83.645%	-0.278	0.080	-0.002	0.016	0.027	83.728%	85.396%
2	20:20:04	85.896%	-0.422	0.056	0.008	0.087	0.071	84.340%	84.700%
3	20:20:12	85.551%	-0.457	-0.007	0.009	-0.020	0.071	84.698%	84.762%
x		85.030%	-0.386	0.043	0.005	0.028	0.057	84.256%	84.953%
σ		1.212%	0.095	0.045	0.006	0.055	0.026	0.491%	0.385%
%RSD		1.426	24.630	104.000	116.500	198.300	45.410	0.582	0.454
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:19:57	0.068	0.058	0.009	-0.001	0.011	89.302%		
2	20:20:04	0.026	0.041	0.004	-0.007	0.005	87.313%		
3	20:20:12	0.036	0.042	0.007	-0.000	0.015	86.114%		
x		0.043	0.047	0.007	-0.003	0.010	87.576%		
σ		0.022	0.010	0.003	0.004	0.005	1.610%		
%RSD		50.370	20.490	41.890	132.500	47.110	1.839		

MB 180-140512/1-A 5/8/2015 8:25:59 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:06	92.215%	-0.056	1.042	1.021	0.000	-2.483	0.427	1.110
2	20:25:14	98.348%	-0.084	1.293	0.994	0.000	-2.339	0.703	0.505
3	20:25:22	92.590%	-0.063	1.251	0.981	0.000	-1.771	0.652	0.503
x		94.384%	-0.068	1.195	0.999	0.000	-2.197	0.594	0.706
σ		3.438%	0.015	0.135	0.020	0.000	0.377	0.147	0.350
%RSD		3.642	21.520	11.250	2.044	0.000	17.140	24.690	49.550

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:06	0.478	-19.320	0.000	2.337	0.510	6.506	85.297%	0.130
2	20:25:14	0.672	-18.040	0.000	3.594	-9.155	4.387	85.093%	0.085
3	20:25:22	0.755	-17.850	0.000	1.956	-0.400	6.831	84.219%	0.225
x		0.635	-18.400	0.000	2.629	-3.015	5.908	84.870%	0.146
σ		0.142	0.796	0.000	0.857	5.336	1.327	0.573%	0.071
%RSD		22.360	4.324	0.000	32.610	177.000	22.470	0.675	48.670

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:06	-0.041	-0.001	0.024	1.605	2.302	0.002	-0.014	-0.035
2	20:25:14	0.000	0.000	0.036	1.381	1.400	0.002	0.035	-0.048
3	20:25:22	-0.016	-0.001	0.032	1.108	1.647	-0.004	0.016	-0.015
x		-0.019	-0.001	0.030	1.365	1.783	0.000	0.012	-0.033
σ		0.021	0.001	0.006	0.249	0.466	0.003	0.025	0.017
%RSD		109.900	104.400	20.070	18.250	26.130	855.300	201.100	51.880

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:06	-0.038	0.836	0.629	-0.081	0.012	0.351	0.000	0.010
2	20:25:14	0.031	0.772	0.855	-0.100	-0.053	0.714	0.000	0.002
3	20:25:22	-0.021	0.772	0.776	-0.088	-0.053	0.869	0.000	0.010
x		-0.009	0.794	0.754	-0.090	-0.031	0.645	0.000	0.007
σ		0.036	0.037	0.115	0.010	0.037	0.266	0.000	0.005
%RSD		385.600	4.653	15.200	10.790	119.800	41.220	0.000	64.600

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:06	80.313%	0.308	0.170	75.622%	-0.331	-0.377	-0.004	0.002
2	20:25:14	81.854%	0.126	0.171	77.244%	-0.325	-0.381	-0.004	0.002
3	20:25:22	82.760%	0.122	0.139	78.300%	-0.322	-0.381	-0.005	-0.018
x		81.642%	0.185	0.160	77.055%	-0.326	-0.380	-0.004	-0.004
σ		1.238%	0.106	0.018	1.349%	0.004	0.002	0.000	0.011
%RSD		1.516	57.360	11.410	1.751	1.340	0.600	0.220	257.500

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:06	78.371%	-0.576	-0.022	-0.140	0.056	0.029	81.149%	81.997%
2	20:25:14	79.352%	-0.700	0.010	-0.168	-0.020	-0.019	82.225%	81.694%
3	20:25:22	79.868%	-0.714	-0.025	-0.177	-0.020	0.005	83.061%	82.212%
x		79.197%	-0.663	-0.012	-0.162	0.005	0.005	82.145%	81.968%
σ		0.760%	0.076	0.019	0.019	0.044	0.024	0.958%	0.260%
%RSD		0.960	11.450	157.100	11.680	862.800	497.200	1.167	0.317

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:06	-0.001	0.001	0.009	0.010	0.010	72.008%
2	20:25:14	0.007	0.010	-0.002	-0.002	0.006	72.346%
3	20:25:22	0.004	0.010	-0.010	-0.014	0.001	72.770%
x		0.003	0.007	-0.001	-0.002	0.005	72.375%
σ		0.004	0.005	0.010	0.012	0.004	0.382%
%RSD		131.200	76.000	1186.000	638.900	78.180	0.527

LCS 180-140512/2-A 5/8/2015 8:31:07 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:14	53.790%	42.130	835.700	814.400	0.000	56890.000	54680.000	54320.000
2	20:30:22	55.370%	41.560	825.100	811.700	0.000	56290.000	53310.000	54320.000
3	20:30:30	52.783%	40.640	786.200	801.400	0.000	59550.000	57320.000	57590.000
x		53.981%	41.440	815.700	809.100	0.000	57580.000	55100.000	55410.000
σ		1.304%	0.751	26.060	6.879	0.000	1732.000	2036.000	1886.000
%RSD		2.415	1.812	3.194	0.850	0.000	3.007	3.695	3.404
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:14	2179.000	9033.000	0.000	51100.000	50130.000	51070.000	53.635%	1015.000
2	20:30:22	2145.000	9064.000	0.000	54050.000	50870.000	50970.000	52.512%	1059.000
3	20:30:30	2307.000	9653.000	0.000	53050.000	50160.000	51300.000	51.116%	1043.000
x		2211.000	9250.000	0.000	52730.000	50390.000	51110.000	52.421%	1039.000
σ		85.270	349.000	0.000	1499.000	419.700	173.400	1.262%	22.400
%RSD		3.857	3.773	0.000	2.843	0.833	0.339	2.407	2.156
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:14	537.200	213.500	572.200	1157.000	1249.000	545.100	531.000	261.700
2	20:30:22	567.800	224.000	590.400	1214.000	1284.000	546.800	532.300	267.000
3	20:30:30	573.200	225.300	585.800	1217.000	1295.000	573.400	539.000	276.800
x		559.400	220.900	582.800	1196.000	1276.000	555.100	534.100	268.500
σ		19.440	6.481	9.495	33.520	23.810	15.880	4.250	7.657
%RSD		3.476	2.934	1.629	2.803	1.866	2.861	0.796	2.852
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:14	264.100	476.200	457.700	39.200	7.489	10.230	0.000	1019.000
2	20:30:22	269.200	477.000	465.400	39.430	8.654	10.160	0.000	1043.000
3	20:30:30	267.200	490.800	474.600	37.980	8.854	11.140	0.000	1037.000
x		266.800	481.300	465.900	38.870	8.332	10.510	0.000	1033.000
σ		2.596	8.186	8.482	0.777	0.737	0.547	0.000	12.350
%RSD		0.973	1.701	1.821	1.998	8.845	5.209	0.000	1.195
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:14	61.084%	1117.000	1125.000	56.344%	50.920	51.100	52.050	95.800
2	20:30:22	60.231%	1141.000	1141.000	57.165%	51.860	52.840	51.740	95.830
3	20:30:30	61.995%	1106.000	1136.000	57.947%	52.020	50.970	49.560	95.090
x		61.103%	1121.000	1134.000	57.152%	51.600	51.640	51.120	95.580
σ		0.882%	18.150	8.035	0.802%	0.592	1.043	1.356	0.420
%RSD		1.444	1.618	0.709	1.403	1.147	2.020	2.652	0.440
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:14	58.224%	2155.000	488.400	486.200	1937.000	1957.000	70.586%	71.585%
2	20:30:22	60.663%	2136.000	488.000	481.400	1918.000	1903.000	72.104%	72.795%
3	20:30:30	60.576%	2167.000	489.600	482.500	1907.000	1954.000	72.288%	74.055%
x		59.821%	2153.000	488.600	483.400	1920.000	1938.000	71.660%	72.811%
σ		1.383%	15.830	0.843	2.501	15.040	30.060	0.934%	1.235%
%RSD		2.313	0.736	0.173	0.517	0.783	1.551	1.303	1.696
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:30:14	51.250	51.750	21.280	20.640	20.650	64.814%		
2	20:30:22	51.470	52.520	21.120	20.890	20.790	65.145%		
3	20:30:30	51.270	50.720	20.790	21.080	20.640	67.978%		
x		51.330	51.660	21.070	20.870	20.690	65.979%		
σ		0.121	0.904	0.251	0.218	0.080	1.739%		
%RSD		0.236	1.749	1.191	1.046	0.388	2.636		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:22	51.636%	40.320	828.700	770.500	0.000	57620.000	55440.000	55100.000
2	20:35:30	48.542%	41.360	812.300	821.900	0.000	61580.000	58040.000	59090.000
3	20:35:37	50.804%	41.450	826.600	772.600	0.000	59400.000	56540.000	57760.000
x		50.327%	41.040	822.500	788.300	0.000	59540.000	56680.000	57320.000
σ		1.601%	0.631	8.893	29.060	0.000	1983.000	1309.000	2034.000
%RSD		3.182	1.537	1.081	3.686	0.000	3.331	2.310	3.549
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:22	2102.000	9755.000	0.000	46340.000	46000.000	46390.000	57.375%	942.100
2	20:35:30	2316.000	10850.000	0.000	51150.000	50270.000	49290.000	53.851%	979.500
3	20:35:37	2221.000	10280.000	0.000	52120.000	48910.000	49080.000	54.235%	1004.000
x		2213.000	10300.000	0.000	49870.000	48390.000	48260.000	55.153%	975.200
σ		107.300	550.000	0.000	3095.000	2185.000	1617.000	1.933%	31.160
%RSD		4.850	5.342	0.000	6.205	4.516	3.352	3.505	3.195
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:22	510.900	204.300	534.300	1092.000	1136.000	509.900	498.200	249.600
2	20:35:30	556.000	215.200	557.500	1152.000	1231.000	543.100	523.200	251.800
3	20:35:37	547.800	214.200	557.100	1165.000	1249.000	547.600	528.000	260.600
x		538.200	211.200	549.600	1137.000	1206.000	533.500	516.500	254.000
σ		24.030	6.046	13.270	38.900	60.580	20.620	16.030	5.800
%RSD		4.464	2.863	2.415	3.423	5.025	3.864	3.103	2.284
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:22	251.100	435.600	438.600	37.400	9.420	8.327	0.000	1018.000
2	20:35:30	256.700	458.100	444.500	37.610	8.794	6.453	0.000	1018.000
3	20:35:37	268.400	476.500	463.000	38.450	8.727	8.670	0.000	1027.000
x		258.700	456.700	448.700	37.820	8.980	7.817	0.000	1021.000
σ		8.822	20.500	12.720	0.555	0.382	1.193	0.000	5.552
%RSD		3.410	4.488	2.834	1.469	4.257	15.270	0.000	0.544
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:22	62.184%	1125.000	1145.000	56.915%	51.600	52.190	48.940	95.080
2	20:35:30	63.464%	1125.000	1139.000	56.805%	53.020	52.080	50.990	97.580
3	20:35:37	62.655%	1102.000	1147.000	56.516%	51.270	52.010	48.140	95.250
x		62.767%	1118.000	1144.000	56.745%	51.960	52.090	49.360	95.970
σ		0.647%	13.120	4.284	0.206%	0.930	0.091	1.472	1.399
%RSD		1.031	1.174	0.375	0.363	1.790	0.176	2.982	1.458
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:22	60.132%	2142.000	490.400	484.800	1929.000	1957.000	71.171%	72.638%
2	20:35:30	59.287%	2202.000	490.500	485.800	1968.000	1964.000	72.059%	74.982%
3	20:35:37	60.045%	2160.000	489.500	482.700	1938.000	1952.000	72.221%	73.267%
x		59.821%	2168.000	490.100	484.400	1945.000	1958.000	71.817%	73.629%
σ		0.465%	31.050	0.513	1.572	20.560	6.058	0.565%	1.213%
%RSD		0.777	1.432	0.105	0.325	1.057	0.310	0.787	1.648
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:35:22	52.330	53.300	21.750	21.760	21.370	65.915%		
2	20:35:30	51.710	52.680	21.070	21.010	21.160	65.388%		
3	20:35:37	53.070	52.030	21.410	21.440	21.530	63.906%		
x		52.370	52.670	21.410	21.400	21.350	65.070%		
σ		0.682	0.632	0.339	0.376	0.186	1.042%		
%RSD		1.303	1.199	1.583	1.758	0.873	1.601		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:30	65.217%	2.225	16.170	17.040	0.000	1232.000	10180.000	10420.000
2	20:40:38	62.365%	2.211	15.740	15.560	0.000	1323.000	10740.000	10950.000
3	20:40:45	66.599%	2.024	15.490	14.770	0.000	1334.000	10750.000	10750.000
x		64.727%	2.153	15.800	15.790	0.000	1296.000	10560.000	10710.000
σ		2.159%	0.112	0.344	1.156	0.000	55.660	326.100	268.300
%RSD		3.336	5.202	2.179	7.324	0.000	4.293	3.089	2.505

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:30	32190.000	3539.000	0.000	3845.000	148500.000	150500.000	61.026%	1019.000
2	20:40:38	33640.000	3610.000	0.000	3950.000	146500.000	156600.000	59.479%	1063.000
3	20:40:45	33650.000	3473.000	0.000	3949.000	149800.000	153600.000	58.227%	1092.000
x		33160.000	3541.000	0.000	3915.000	148300.000	153500.000	59.577%	1058.000
σ		838.200	68.200	0.000	60.110	1705.000	3042.000	1.402%	36.420
%RSD		2.528	1.926	0.000	1.535	1.150	1.981	2.354	3.442

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:30	100.300	74.140	2964.000	81120.000	77850.000	59.690	81.390	135.600
2	20:40:38	105.500	74.990	3017.000	81540.000	76360.000	58.540	84.420	142.000
3	20:40:45	112.000	80.360	3192.000	84950.000	81420.000	60.960	84.690	147.900
x		105.900	76.500	3057.000	82540.000	78540.000	59.730	83.500	141.800
σ		5.852	3.372	119.200	2099.000	2601.000	1.215	1.834	6.172
%RSD		5.524	4.408	3.897	2.543	3.311	2.035	2.196	4.352

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:30	144.300	413.900	417.500	21.210	3.104	3.733	0.000	190.300
2	20:40:38	142.500	428.100	428.800	21.440	2.567	4.502	0.000	195.600
3	20:40:45	148.500	433.400	432.400	21.380	3.114	4.314	0.000	195.300
x		145.100	425.200	426.200	21.340	2.928	4.183	0.000	193.700
σ		3.075	10.090	7.778	0.121	0.313	0.401	0.000	2.950
%RSD		2.120	2.373	1.825	0.567	10.700	9.586	0.000	1.522

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:30	0.000	6.558	6.937	56.590%	0.781	0.695	0.864	2.231
2	20:40:38	0.000	6.170	6.198	57.502%	0.698	0.613	1.398	2.103
3	20:40:45	0.000	5.199	6.139	56.780%	0.587	0.860	1.133	2.043
x		0.000	5.976	6.425	56.957%	0.689	0.723	1.132	2.126
σ		0.000	0.700	0.445	0.481%	0.097	0.126	0.267	0.096
%RSD		0.000	11.710	6.922	0.844	14.090	17.400	23.580	4.528

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:30	59.130%	47.440	1.491	1.349	410.700	395.900	72.980%	73.419%
2	20:40:38	61.074%	45.050	1.236	1.356	398.100	394.200	74.029%	75.308%
3	20:40:45	61.188%	44.650	1.430	1.138	393.000	406.100	74.222%	75.405%
x		60.464%	45.710	1.386	1.281	400.600	398.700	73.743%	74.711%
σ		1.157%	1.510	0.133	0.124	9.127	6.428	0.668%	1.120%
%RSD		1.913	3.303	9.601	9.683	2.278	1.612	0.906	1.499

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:40:30	0.573	0.603	120.400	110.100	113.600	55.953%
2	20:40:38	0.553	0.556	119.400	112.100	115.200	56.339%
3	20:40:45	0.552	0.661	120.900	112.200	115.400	56.787%
x		0.559	0.606	120.300	111.500	114.700	56.360%
σ		0.012	0.053	0.769	1.211	1.020	0.417%
%RSD		2.084	8.716	0.640	1.087	0.889	0.740

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	58.775%	2.504	10.320	10.710	0.000	2605.000	9327.000	9270.000
2	20:45:47	50.635%	2.752	14.100	11.700	0.000	2948.000	10180.000	10430.000
3	20:45:55	48.614%	2.637	13.770	12.180	0.000	2964.000	10540.000	10910.000
x		52.675%	2.631	12.730	11.530	0.000	2839.000	10020.000	10200.000
σ		5.379%	0.124	2.093	0.748	0.000	203.100	623.300	843.800
%RSD		10.212	4.718	16.440	6.486	0.000	7.155	6.222	8.270
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	22420.000	3256.000	0.000	3433.000	388000.000	375500.000	57.282%	1104.000
2	20:45:47	27820.000	3542.000	0.000	3571.000	404100.000	394500.000	53.553%	1182.000
3	20:45:55	25970.000	3708.000	0.000	3469.000	395200.000	396000.000	54.172%	1142.000
x		25400.000	3502.000	0.000	3491.000	395800.000	388700.000	55.002%	1143.000
σ		2746.000	228.800	0.000	71.640	8086.000	11460.000	1.998%	39.350
%RSD		10.810	6.535	0.000	2.052	2.043	2.949	3.633	3.444
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	95.260	110.500	3133.000	142500.000	129200.000	65.270	87.480	220.200
2	20:45:47	110.700	118.700	3200.000	149200.000	138900.000	69.260	91.140	231.500
3	20:45:55	106.100	118.800	3164.000	146300.000	132800.000	66.170	91.380	235.700
x		104.000	116.000	3166.000	146000.000	133600.000	66.900	90.000	229.100
σ		7.934	4.782	33.490	3387.000	4945.000	2.094	2.189	8.015
%RSD		7.628	4.123	1.058	2.320	3.700	3.130	2.432	3.498
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	222.000	573.900	577.100	35.400	1.882	4.370	0.000	684.400
2	20:45:47	238.500	612.300	613.500	36.440	1.989	2.711	0.000	704.800
3	20:45:55	237.100	593.900	593.300	35.550	1.909	2.004	0.000	690.900
x		232.500	593.400	594.600	35.800	1.926	3.028	0.000	693.400
σ		9.153	19.220	18.220	0.563	0.056	1.215	0.000	10.450
%RSD		3.936	3.239	3.064	1.572	2.884	40.110	0.000	1.507
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	0.000	4.551	4.854	54.781%	10.530	10.480	0.963	19.820
2	20:45:47	0.000	5.205	4.788	54.706%	9.922	10.600	0.971	20.110
3	20:45:55	0.000	5.090	5.370	55.778%	10.680	10.420	1.306	20.380
x		0.000	4.949	5.004	55.088%	10.380	10.500	1.080	20.100
σ		0.000	0.349	0.319	0.599%	0.401	0.091	0.195	0.284
%RSD		0.000	7.050	6.370	1.087	3.865	0.870	18.090	1.414
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:45:39	58.777%	905.300	2.062	1.405	383.400	379.000	72.296%	74.254%
2	20:45:47	60.077%	923.900	1.899	1.934	374.600	373.200	74.324%	75.711%
3	20:45:55	59.804%	921.400	1.978	1.539	375.500	386.800	74.047%	75.378%
x		59.552%	916.900	1.980	1.626	377.800	379.600	73.556%	75.114%
σ		0.686%	10.090	0.081	0.275	4.845	6.823	1.100%	0.764%
%RSD		1.151	1.100	4.098	16.940	1.282	1.797	1.495	1.017
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:45:39	0.471	0.456	528.700	498.900	514.200	61.742%		
2	20:45:47	0.454	0.474	550.700	507.800	524.500	61.660%		
3	20:45:55	0.504	0.449	537.800	499.900	517.500	63.101%		
x		0.476	0.460	539.100	502.200	518.800	62.168%		
σ		0.025	0.013	11.040	4.906	5.245	0.809%		
%RSD		5.307	2.818	2.048	0.977	1.011	1.302		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:47	60.378%	6.395	19.870	21.010	0.000	1513.000	27990.000	28220.000
2	20:50:55	52.061%	7.766	23.980	22.160	0.000	1661.000	30800.000	30160.000
3	20:51:03	49.003%	8.263	24.240	23.320	0.000	1791.000	32600.000	32110.000
x		53.814%	7.475	22.700	22.160	0.000	1655.000	30460.000	30170.000
σ		5.887%	0.968	2.454	1.155	0.000	139.300	2323.000	1947.000
%RSD		10.939	12.940	10.810	5.211	0.000	8.415	7.627	6.454
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:47	107500.000	2968.000	0.000	10170.000	87850.000	87640.000	63.670%	2472.000
2	20:50:55	118400.000	3407.000	0.000	10520.000	92420.000	91570.000	60.466%	2506.000
3	20:51:03	118300.000	3407.000	0.000	10630.000	91480.000	92220.000	61.810%	2525.000
x		114800.000	3261.000	0.000	10440.000	90580.000	90470.000	61.982%	2501.000
σ		6249.000	253.500	0.000	242.300	2417.000	2473.000	1.609%	26.760
%RSD		5.445	7.773	0.000	2.321	2.669	2.734	2.595	1.070
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:47	289.600	230.000	4863.000	210000.000	190700.000	149.100	221.100	287.400
2	20:50:55	299.100	239.700	5167.000	217300.000	191900.000	153.000	229.700	303.100
3	20:51:03	287.500	234.700	5083.000	217600.000	194800.000	151.200	230.400	288.700
x		292.100	234.800	5038.000	214900.000	192500.000	151.100	227.100	293.000
σ		6.170	4.875	156.500	4272.000	2094.000	1.937	5.182	8.703
%RSD		2.113	2.076	3.107	1.987	1.088	1.282	2.282	2.970
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:47	292.300	1015.000	1005.000	38.210	5.446	3.162	0.000	239.300
2	20:50:55	296.900	1042.000	1040.000	38.810	5.420	4.836	0.000	241.400
3	20:51:03	298.300	1035.000	1027.000	37.440	5.435	12.550	0.000	240.900
x		295.800	1031.000	1024.000	38.150	5.434	6.851	0.000	240.500
σ		3.122	13.720	18.070	0.691	0.013	5.010	0.000	1.096
%RSD		1.056	1.331	1.765	1.812	0.239	73.130	0.000	0.456
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:47	0.000	8.532	8.506	58.090%	1.370	1.471	3.383	4.216
2	20:50:55	0.000	8.273	7.892	59.121%	1.555	1.430	3.214	3.881
3	20:51:03	0.000	8.643	8.474	59.520%	1.373	1.351	2.413	3.716
x		0.000	8.483	8.291	58.910%	1.432	1.417	3.003	3.938
σ		0.000	0.190	0.346	0.738%	0.106	0.061	0.518	0.255
%RSD		0.000	2.236	4.172	1.252	7.407	4.287	17.250	6.474
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:50:47	62.314%	50.450	2.079	1.971	1046.000	1050.000	82.038%	83.587%
2	20:50:55	63.126%	48.870	2.398	2.295	1039.000	1037.000	82.520%	82.816%
3	20:51:03	62.952%	48.050	2.134	2.316	1047.000	1051.000	81.605%	83.258%
x		62.797%	49.120	2.204	2.194	1044.000	1046.000	82.055%	83.220%
σ		0.427%	1.220	0.170	0.193	4.616	7.632	0.458%	0.387%
%RSD		0.681	2.483	7.726	8.800	0.442	0.730	0.558	0.465
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:50:47	1.475	1.577	344.200	318.500	329.000	65.256%		
2	20:50:55	1.502	1.429	327.600	302.900	313.600	68.425%		
3	20:51:03	1.630	1.530	342.900	320.000	329.800	65.157%		
x		1.536	1.512	338.200	313.800	324.100	66.279%		
σ		0.083	0.076	9.211	9.498	9.170	1.859%		
%RSD		5.377	5.023	2.723	3.027	2.829	2.805		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:55	78.739%	1.568	5.903	5.338	0.000	291.800	5754.000	5700.000
2	20:56:03	75.706%	1.658	5.551	5.390	0.000	294.100	5639.000	5720.000
3	20:56:11	75.927%	1.557	5.310	5.231	0.000	311.600	5806.000	5886.000
x		76.791%	1.594	5.588	5.319	0.000	299.200	5733.000	5769.000
σ		1.691%	0.056	0.298	0.081	0.000	10.860	85.710	102.300
%RSD		2.202	3.490	5.332	1.528	0.000	3.631	1.495	1.774
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:55	21560.000	584.000	0.000	2217.000	18660.000	19610.000	75.768%	533.900
2	20:56:03	23130.000	607.400	0.000	2242.000	19260.000	19730.000	77.829%	534.000
3	20:56:11	23690.000	644.400	0.000	2272.000	20290.000	19860.000	75.789%	551.900
x		22790.000	611.900	0.000	2244.000	19400.000	19730.000	76.462%	539.900
σ		1100.000	30.480	0.000	27.330	826.000	126.400	1.184%	10.380
%RSD		4.825	4.981	0.000	1.218	4.257	0.640	1.549	1.923
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:55	55.770	46.090	1031.000	40770.000	38890.000	27.870	43.220	58.040
2	20:56:03	55.560	45.070	1009.000	39850.000	38440.000	27.630	43.330	56.030
3	20:56:11	57.290	45.040	1073.000	40480.000	39280.000	27.850	42.730	57.470
x		56.210	45.400	1038.000	40370.000	38870.000	27.780	43.090	57.180
σ		0.948	0.600	32.810	468.400	421.400	0.135	0.319	1.037
%RSD		1.687	1.322	3.162	1.160	1.084	0.487	0.740	1.814
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:55	56.330	204.000	203.500	6.507	0.968	-0.295	0.000	34.030
2	20:56:03	55.910	205.600	197.900	6.450	0.892	0.679	0.000	33.630
3	20:56:11	57.330	205.100	205.100	6.027	1.102	3.202	0.000	34.830
x		56.520	204.900	202.200	6.328	0.987	1.196	0.000	34.160
σ		0.728	0.856	3.792	0.262	0.106	1.804	0.000	0.609
%RSD		1.289	0.418	1.876	4.144	10.730	150.900	0.000	1.784
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:55	96.541%	1.360	1.250	70.815%	-0.004	-0.059	0.657	1.014
2	20:56:03	97.943%	1.317	1.379	70.766%	0.084	0.030	0.684	0.733
3	20:56:11	97.981%	1.084	1.399	71.231%	0.032	0.024	0.567	0.851
x		97.488%	1.253	1.343	70.937%	0.037	-0.002	0.636	0.866
σ		0.820%	0.149	0.081	0.256%	0.044	0.050	0.061	0.141
%RSD		0.842	11.850	6.004	0.360	118.800	3167.000	9.601	16.320
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:55:55	70.918%	9.435	0.353	0.385	217.600	219.900	81.353%	82.682%
2	20:56:03	72.230%	8.798	0.309	0.274	207.800	216.900	81.652%	82.326%
3	20:56:11	71.244%	9.204	0.321	0.214	214.700	221.800	81.985%	81.109%
x		71.464%	9.146	0.328	0.291	213.400	219.500	81.663%	82.039%
σ		0.683%	0.322	0.023	0.087	5.063	2.435	0.317%	0.825%
%RSD		0.956	3.524	7.037	29.810	2.373	1.109	0.388	1.005
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	20:55:55	0.264	0.248	66.190	63.120	64.010	63.702%		
2	20:56:03	0.297	0.285	67.720	62.600	64.490	63.661%		
3	20:56:11	0.324	0.299	67.920	63.750	65.610	61.485%		
x		0.295	0.277	67.280	63.160	64.700	62.949%		
σ		0.030	0.026	0.946	0.574	0.819	1.268%		
%RSD		10.230	9.481	1.405	0.908	1.266	2.015		

CCV 1558997 5/8/2015 9:16:03 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:11	100.857%	109.100	99.050	96.130	0.000	47560.000	45930.000	45440.000
2	21:15:18	101.765%	105.000	91.960	95.340	0.000	47140.000	46960.000	46690.000
3	21:15:25	99.444%	107.700	99.540	99.160	0.000	49470.000	49060.000	47180.000
x		100.689%	107.265%	96.850%	96.873%	0.000	96.112%	94.635%	92.871%
σ		1.169%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		1.161	1.955	4.378	2.081	0.000	2.581	3.378	1.937
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:11	454.300	5333.000	0.000	50040.000	47780.000	46810.000	100.736%	96.080
2	21:15:18	462.500	5482.000	0.000	51990.000	48480.000	48870.000	98.864%	101.800
3	21:15:25	473.600	5760.000	0.000	55160.000	52240.000	50300.000	95.733%	107.300
x		92.693%	110.498%	0.000	104.797%	99.002%	97.317%	98.444%	101.741%
σ		n/a	n/a	0.000	n/a	n/a	n/a	2.528%	n/a
%RSD		2.092	3.925	0.000	4.933	4.846	3.614	2.568	5.523
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:11	90.210	91.900	489.500	22510.000	22210.000	94.940	98.520	98.670
2	21:15:18	92.070	94.550	499.300	22700.000	22770.000	94.460	97.380	98.510
3	21:15:25	96.370	95.630	524.900	23450.000	22900.000	96.020	99.810	99.640
x		92.886%	94.026%	100.910%	91.546%	90.508%	95.141%	98.572%	98.941%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		3.402	2.039	3.620	2.180	1.639	0.840	1.233	0.622
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:11	97.560	97.220	100.100	103.700	104.600	110.600	0.000	102.000
2	21:15:18	97.680	99.610	101.700	103.900	101.400	96.020	0.000	97.770
3	21:15:25	100.000	101.400	103.800	104.300	101.500	107.000	0.000	98.230
x		98.422%	99.399%	101.876%	103.968%	102.509%	104.546%	0.000	99.338%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.413	2.097	1.807	0.287	1.746	7.266	0.000	2.342
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:11	85.453%	104.500	106.600	73.713%	103.600	104.200	106.700	110.000
2	21:15:18	87.617%	104.700	106.200	75.522%	102.900	103.000	100.600	102.900
3	21:15:25	88.111%	105.200	106.500	75.720%	102.900	101.300	103.700	106.100
x		87.060%	104.795%	106.424%	74.985%	103.096%	102.805%	103.637%	106.349%
σ		1.414%	n/a	n/a	1.106%	n/a	n/a	n/a	n/a
%RSD		1.624	0.318	0.161	1.475	0.389	1.439	2.945	3.363
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:15:11	75.623%	100.400	103.900	104.000	102.200	106.300	77.455%	77.967%
2	21:15:18	77.053%	100.100	104.500	105.200	102.500	106.000	76.983%	78.046%
3	21:15:25	77.006%	99.080	105.500	103.300	102.900	102.600	79.762%	78.229%
x		76.561%	99.849%	104.636%	104.140%	102.560%	104.961%	78.066%	78.081%
σ		0.812%	n/a	n/a	n/a	n/a	n/a	1.487%	0.135%
%RSD		1.061	0.678	0.760	0.918	0.353	1.957	1.905	0.172
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:15:11	100.400	100.300	101.100	99.480	100.100	58.226%		
2	21:15:18	102.800	99.680	100.600	99.850	100.300	57.878%		
3	21:15:25	100.200	100.900	101.700	101.000	101.200	57.272%		
x		101.130%	100.271%	101.152%	100.117%	100.522%	57.792%		
σ		n/a	n/a	n/a	n/a	n/a	0.483%		
%RSD		1.459	0.592	0.527	0.797	0.546	0.836		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:10	110.220%	-0.043	0.701	0.711	0.000	4.328	5.755	4.545
2	21:24:17	110.145%	-0.045	0.571	0.742	0.000	4.037	4.099	5.067
3	21:24:25	106.266%	-0.034	0.952	0.636	0.000	5.161	5.609	5.881
x		108.877%	-0.041	0.742	0.696	0.000	4.508	5.155	5.164
σ		2.261%	0.006	0.194	0.054	0.000	0.583	0.917	0.673
%RSD		2.077	14.170	26.090	7.821	0.000	12.940	17.790	13.040

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:10	1.077	-19.300	0.000	8.936	9.199	15.740	109.232%	-0.000
2	21:24:17	1.037	-19.020	0.000	10.390	17.100	16.880	105.004%	-0.068
3	21:24:25	1.109	-16.590	0.000	12.640	16.540	18.110	97.782%	0.036
x		1.075	-18.300	0.000	10.660	14.280	16.910	104.006%	-0.011
σ		0.036	1.488	0.000	1.866	4.408	1.185	5.790%	0.053
%RSD		3.358	8.127	0.000	17.510	30.870	7.009	5.567	491.500

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:10	0.046	0.016	0.101	10.470	7.876	0.011	0.056	0.092
2	21:24:17	0.041	0.010	0.082	9.968	10.110	0.011	0.017	0.002
3	21:24:25	0.006	0.006	0.102	9.387	8.900	0.010	0.104	0.066
x		0.031	0.011	0.095	9.942	8.962	0.010	0.059	0.053
σ		0.022	0.005	0.011	0.543	1.118	0.001	0.043	0.046
%RSD		70.460	47.830	11.550	5.460	12.480	5.288	73.770	87.180

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:10	-0.009	1.125	0.994	-0.017	0.054	1.108	0.000	0.031
2	21:24:17	0.014	1.090	0.951	-0.089	0.053	0.728	0.000	0.011
3	21:24:25	-0.004	1.213	1.111	-0.028	-0.000	0.614	0.000	0.084
x		0.001	1.143	1.019	-0.045	0.035	0.817	0.000	0.042
σ		0.012	0.064	0.083	0.039	0.031	0.259	0.000	0.038
%RSD		2329.000	5.559	8.133	87.240	87.170	31.710	0.000	89.410

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:10	96.018%	0.322	0.213	94.639%	-0.313	-0.373	-0.004	-0.003
2	21:24:17	98.343%	0.288	0.350	86.128%	-0.316	-0.379	-0.005	0.014
3	21:24:25	101.338%	0.353	0.248	87.999%	-0.344	-0.385	-0.005	-0.013
x		98.566%	0.321	0.270	89.588%	-0.324	-0.379	-0.005	-0.001
σ		2.667%	0.032	0.071	4.473%	0.017	0.006	0.000	0.014
%RSD		2.706	10.040	26.310	4.993	5.212	1.651	0.690	1879.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:10	95.757%	-0.809	-0.066	-0.177	0.044	-0.019	94.473%	93.456%
2	21:24:17	96.684%	-0.892	-0.067	-0.149	0.044	0.001	92.654%	93.598%
3	21:24:25	96.548%	-0.920	-0.033	-0.107	0.108	0.021	93.634%	94.296%
x		96.330%	-0.874	-0.055	-0.144	0.065	0.001	93.587%	93.783%
σ		0.501%	0.058	0.019	0.035	0.037	0.020	0.910%	0.449%
%RSD		0.520	6.609	34.660	24.490	56.690	1744.000	0.973	0.479

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:24:10	0.069	0.053	0.019	0.009	0.023	94.006%
2	21:24:17	0.048	0.037	0.034	-0.003	0.025	94.884%
3	21:24:25	0.037	0.044	0.025	-0.019	0.024	94.282%
x		0.052	0.045	0.026	-0.004	0.024	94.391%
σ		0.016	0.008	0.007	0.014	0.001	0.449%
%RSD		31.510	18.170	27.550	339.600	3.691	0.476

LCS 180-140485/2-A 5/8/2015 9:30:10 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:18	57.458%	45.480	912.800	813.300	0.000	54670.000	52050.000	52980.000
2	21:29:25	55.392%	47.310	897.600	859.300	0.000	57070.000	56420.000	55230.000
3	21:29:33	56.549%	43.020	791.700	774.800	0.000	56250.000	54400.000	53990.000
x		56.467%	45.270	867.400	815.800	0.000	56000.000	54290.000	54070.000
σ		1.035%	2.152	65.980	42.270	0.000	1219.000	2186.000	1125.000
%RSD		1.834	4.754	7.607	5.182	0.000	2.177	4.027	2.081

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:18	2043.000	11810.000	0.000	52370.000	48570.000	49050.000	58.458%	1028.000
2	21:29:25	2193.000	12530.000	0.000	52690.000	50770.000	50680.000	57.746%	1018.000
3	21:29:33	2152.000	12600.000	0.000	52390.000	51270.000	50510.000	56.062%	1056.000
x		2129.000	12310.000	0.000	52480.000	50200.000	50080.000	57.422%	1034.000
σ		77.360	432.600	0.000	178.600	1436.000	900.000	1.230%	19.720
%RSD		3.633	3.513	0.000	0.340	2.861	1.797	2.142	1.907

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:18	520.900	203.600	571.300	1104.000	1172.000	524.600	508.600	264.800
2	21:29:25	535.200	212.400	567.200	1133.000	1185.000	542.200	506.800	259.400
3	21:29:33	554.600	219.500	581.400	1157.000	1214.000	552.400	539.800	266.700
x		536.900	211.900	573.300	1131.000	1190.000	539.700	518.400	263.600
σ		16.920	7.968	7.309	26.830	21.680	14.020	18.540	3.794
%RSD		3.152	3.761	1.275	2.372	1.821	2.598	3.576	1.439

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:18	262.000	530.400	527.100	43.760	9.961	14.500	0.000	1054.000
2	21:29:25	256.500	522.000	521.900	42.390	9.992	10.700	0.000	1022.000
3	21:29:33	266.500	532.200	531.000	41.720	10.330	13.820	0.000	1032.000
x		261.700	528.200	526.700	42.630	10.090	13.010	0.000	1036.000
σ		5.049	5.423	4.574	1.040	0.203	2.029	0.000	16.390
%RSD		1.930	1.027	0.868	2.439	2.013	15.600	0.000	1.583

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:18	62.309%	1130.000	1137.000	56.403%	52.620	52.750	54.420	101.400
2	21:29:25	62.683%	1111.000	1157.000	56.133%	52.520	53.920	55.940	98.850
3	21:29:33	63.802%	1139.000	1130.000	56.296%	52.070	52.880	54.400	97.030
x		62.931%	1126.000	1141.000	56.277%	52.400	53.180	54.920	99.080
σ		0.777%	13.840	13.940	0.136%	0.293	0.642	0.888	2.170
%RSD		1.235	1.228	1.222	0.241	0.558	1.206	1.617	2.190

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:18	57.619%	2199.000	539.600	531.300	2028.000	2032.000	70.252%	70.974%
2	21:29:25	59.336%	2164.000	522.100	521.900	1979.000	2003.000	70.029%	71.319%
3	21:29:33	59.564%	2148.000	533.600	525.800	2015.000	1981.000	69.989%	71.507%
x		58.840%	2170.000	531.800	526.400	2007.000	2005.000	70.090%	71.267%
σ		1.063%	26.030	8.895	4.742	25.510	25.380	0.142%	0.270%
%RSD		1.807	1.199	1.673	0.901	1.271	1.265	0.202	0.379

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:29:18	52.550	53.170	21.570	21.420	21.550	57.952%
2	21:29:25	51.770	51.640	21.210	21.370	21.020	57.523%
3	21:29:33	52.430	52.670	21.700	21.600	21.580	56.390%
x		52.250	52.500	21.490	21.470	21.380	57.288%
σ		0.419	0.780	0.255	0.122	0.315	0.807%
%RSD		0.802	1.485	1.184	0.569	1.475	1.409

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:26	71.409%	-0.040	205.300	209.700	0.000	698600.000	78660.000	79120.000
2	21:34:33	69.441%	-0.032	200.100	206.900	0.000	727300.000	82220.000	83160.000
3	21:34:41	71.020%	-0.021	198.800	227.000	0.000	706200.000	80090.000	79940.000
x		70.623%	-0.031	201.400	214.600	0.000	710700.000	80320.000	80740.000
σ		1.042%	0.009	3.397	10.870	0.000	14870.000	1795.000	2136.000
%RSD		1.475	30.020	1.687	5.066	0.000	2.092	2.234	2.645
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:26	7.946	67.390	0.000	28000.000	34310.000	35790.000	74.983%	0.963
2	21:34:33	8.042	69.410	0.000	28470.000	34490.000	35660.000	72.496%	1.027
3	21:34:41	7.995	70.500	0.000	29530.000	35530.000	36480.000	72.606%	1.317
x		7.994	69.100	0.000	28670.000	34780.000	35980.000	73.362%	1.102
σ		0.048	1.576	0.000	781.200	661.700	438.000	1.405%	0.189
%RSD		0.601	2.280	0.000	2.725	1.903	1.218	1.915	17.120
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:26	0.246	0.103	13.610	-0.459	138.500	0.102	0.342	0.118
2	21:34:33	-0.227	0.174	13.980	-0.658	123.100	0.102	0.267	0.163
3	21:34:41	0.108	0.194	14.380	-1.094	123.600	0.087	0.436	0.176
x		0.042	0.157	13.990	-0.737	128.400	0.097	0.349	0.152
σ		0.243	0.048	0.390	0.325	8.774	0.009	0.085	0.031
%RSD		577.700	30.350	2.784	44.110	6.832	8.821	24.280	20.180
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:26	0.320	5.570	5.063	0.253	-0.053	46.180	0.000	515.500
2	21:34:33	0.302	4.867	4.747	0.257	0.056	46.170	0.000	511.900
3	21:34:41	0.350	5.156	4.490	0.226	-0.053	46.530	0.000	510.600
x		0.324	5.198	4.767	0.245	-0.016	46.290	0.000	512.700
σ		0.024	0.353	0.287	0.017	0.063	0.209	0.000	2.545
%RSD		7.508	6.791	6.028	6.882	382.000	0.451	0.000	0.496
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:26	70.614%	5.718	5.948	58.707%	-0.344	-0.397	0.015	0.065
2	21:34:33	72.717%	4.950	5.018	60.014%	-0.336	-0.394	-0.005	0.055
3	21:34:41	73.434%	4.561	4.523	60.944%	-0.344	-0.386	0.015	0.062
x		72.255%	5.076	5.163	59.889%	-0.341	-0.392	0.008	0.061
σ		1.466%	0.589	0.724	1.124%	0.005	0.006	0.011	0.005
%RSD		2.029	11.600	14.020	1.876	1.347	1.495	133.000	8.468
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:26	63.733%	4.477	0.278	0.378	1.991	2.871	71.257%	69.959%
2	21:34:33	65.372%	3.056	0.260	0.231	1.815	2.644	72.341%	74.317%
3	21:34:41	66.337%	2.640	0.238	0.102	2.831	2.809	74.401%	74.566%
x		65.147%	3.391	0.259	0.237	2.213	2.775	72.666%	72.947%
σ		1.317%	0.963	0.020	0.138	0.543	0.117	1.597%	2.591%
%RSD		2.021	28.410	7.876	58.440	24.530	4.224	2.198	3.552
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:34:26	0.032	0.046	0.114	0.154	0.152	48.942%		
2	21:34:33	0.024	0.009	0.167	0.197	0.160	52.482%		
3	21:34:41	0.003	0.031	0.130	0.125	0.123	54.527%		
x		0.020	0.029	0.137	0.159	0.145	51.984%		
σ		0.015	0.019	0.027	0.036	0.019	2.826%		
%RSD		74.580	64.440	19.810	22.790	13.340	5.436		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:33	88.935%	-0.056	43.090	45.040	0.000	135700.000	15180.000	14900.000
2	21:39:41	92.001%	-0.063	44.120	43.760	0.000	136600.000	15450.000	15210.000
3	21:39:48	84.354%	-0.058	48.210	47.370	0.000	146300.000	16480.000	16010.000
x		88.430%	-0.059	45.140	45.390	0.000	139500.000	15700.000	15370.000
σ		3.848%	0.004	2.706	1.831	0.000	5892.000	685.700	575.400
%RSD		4.352	6.098	5.995	4.033	0.000	4.222	4.367	3.743
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:33	2.632	-8.305	0.000	5508.000	6730.000	6516.000	90.934%	0.092
2	21:39:41	2.748	-3.951	0.000	5856.000	6905.000	6875.000	86.294%	0.171
3	21:39:48	3.202	-1.455	0.000	5746.000	6818.000	6750.000	86.700%	0.103
x		2.861	-4.571	0.000	5703.000	6817.000	6714.000	87.976%	0.122
σ		0.301	3.467	0.000	177.700	87.500	182.400	2.570%	0.043
%RSD		10.530	75.850	0.000	3.115	1.284	2.718	2.921	35.240
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:33	-0.004	0.028	2.659	-0.673	26.380	0.017	0.105	0.020
2	21:39:41	-0.001	0.031	2.890	-0.595	24.670	0.024	0.109	0.046
3	21:39:48	0.075	0.057	2.884	-0.698	20.990	0.024	0.118	0.074
x		0.023	0.039	2.811	-0.655	24.020	0.022	0.111	0.047
σ		0.044	0.016	0.132	0.054	2.752	0.004	0.007	0.027
%RSD		191.300	40.260	4.691	8.173	11.460	17.080	5.982	58.670
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:33	0.007	1.290	1.022	-0.065	-0.022	8.593	0.000	100.000
2	21:39:41	0.017	0.966	1.086	-0.019	0.069	8.139	0.000	98.550
3	21:39:48	0.119	0.895	0.936	-0.036	-0.022	10.390	0.000	98.800
x		0.047	1.050	1.014	-0.040	0.008	9.039	0.000	99.120
σ		0.062	0.211	0.075	0.024	0.052	1.188	0.000	0.775
%RSD		131.100	20.090	7.417	58.830	645.000	13.140	0.000	0.782
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:33	83.849%	0.902	0.945	77.243%	-0.341	-0.381	-0.005	0.014
2	21:39:41	87.118%	0.800	0.977	77.420%	-0.322	-0.400	0.026	0.007
3	21:39:48	86.738%	0.928	0.994	78.603%	-0.329	-0.366	-0.005	-0.012
x		85.902%	0.877	0.972	77.755%	-0.331	-0.382	0.006	0.003
σ		1.788%	0.067	0.025	0.739%	0.009	0.017	0.018	0.013
%RSD		2.081	7.686	2.585	0.951	2.852	4.512	311.200	399.800
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:39:33	80.957%	-0.413	0.013	-0.104	0.677	0.556	86.486%	85.400%
2	21:39:41	82.476%	-0.117	-0.035	-0.123	0.233	0.571	87.308%	87.522%
3	21:39:48	83.098%	-0.540	-0.048	-0.115	0.741	0.345	86.197%	87.288%
x		82.177%	-0.357	-0.024	-0.114	0.550	0.491	86.663%	86.737%
σ		1.101%	0.217	0.032	0.010	0.277	0.127	0.576%	1.163%
%RSD		1.340	60.830	136.800	8.438	50.290	25.780	0.665	1.341
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:39:33	-0.022	-0.001	0.047	0.007	0.032	77.045%		
2	21:39:41	-0.009	-0.012	0.042	0.029	0.052	78.006%		
3	21:39:48	-0.020	-0.011	0.027	0.010	0.038	79.769%		
x		-0.017	-0.008	0.039	0.015	0.041	78.273%		
σ		0.007	0.006	0.010	0.012	0.011	1.382%		
%RSD		41.740	76.830	26.750	77.560	25.830	1.765		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:41	70.997%	4.161	247.400	263.300	0.000	683300.000	80310.000	81400.000
2	21:44:49	65.842%	4.216	269.800	272.900	0.000	744900.000	86780.000	87530.000
3	21:44:57	66.739%	4.805	279.300	285.400	0.000	731400.000	84750.000	86990.000
x		67.859%	4.394	265.500	273.900	0.000	719800.000	83950.000	85310.000
σ		2.754%	0.357	16.340	11.100	0.000	32380.000	3309.000	3393.000
%RSD		4.059	8.121	6.154	4.053	0.000	4.498	3.942	3.978
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:41	191.500	1148.000	0.000	31820.000	37950.000	38430.000	73.646%	95.900
2	21:44:49	208.000	1242.000	0.000	33610.000	39320.000	39840.000	70.332%	102.100
3	21:44:57	205.900	1280.000	0.000	34760.000	40920.000	40570.000	70.760%	107.300
x		201.800	1223.000	0.000	33400.000	39400.000	39610.000	71.580%	101.800
σ		8.959	67.920	0.000	1482.000	1487.000	1090.000	1.802%	5.699
%RSD		4.440	5.552	0.000	4.437	3.775	2.752	2.518	5.601
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:41	47.910	18.980	62.210	90.380	232.200	45.840	44.260	22.770
2	21:44:49	50.100	19.350	65.420	97.120	236.600	47.100	45.210	23.700
3	21:44:57	49.100	19.050	66.270	94.820	223.900	48.110	45.950	24.310
x		49.040	19.130	64.630	94.110	230.900	47.010	45.140	23.590
σ		1.096	0.200	2.140	3.422	6.449	1.138	0.849	0.774
%RSD		2.235	1.045	3.311	3.636	2.793	2.420	1.881	3.282
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:41	23.430	48.380	47.390	3.888	0.682	47.040	0.000	621.700
2	21:44:49	23.400	49.380	48.060	4.277	0.829	49.110	0.000	622.600
3	21:44:57	25.000	48.290	47.680	3.962	0.984	55.190	0.000	617.900
x		23.940	48.680	47.710	4.042	0.832	50.450	0.000	620.700
σ		0.914	0.602	0.339	0.207	0.151	4.238	0.000	2.503
%RSD		3.818	1.236	0.710	5.119	18.180	8.401	0.000	0.403
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:41	71.115%	114.000	116.900	59.932%	4.379	4.460	4.530	9.620
2	21:44:49	72.213%	113.500	119.100	60.413%	4.593	4.459	5.534	9.205
3	21:44:57	71.269%	114.600	119.000	60.060%	4.440	4.702	5.639	9.454
x		71.532%	114.000	118.300	60.135%	4.471	4.541	5.234	9.426
σ		0.595%	0.529	1.219	0.249%	0.110	0.140	0.613	0.209
%RSD		0.831	0.464	1.030	0.414	2.461	3.079	11.700	2.220
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:44:41	65.730%	204.600	53.530	49.760	202.700	201.400	73.290%	74.915%
2	21:44:49	66.211%	204.100	52.730	49.480	199.700	207.500	74.463%	76.673%
3	21:44:57	66.262%	206.300	51.490	51.560	202.100	199.900	74.463%	75.539%
x		66.068%	205.000	52.590	50.270	201.500	202.900	74.072%	75.709%
σ		0.293%	1.162	1.029	1.129	1.608	4.008	0.677%	0.891%
%RSD		0.444	0.567	1.957	2.247	0.798	1.975	0.914	1.177
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:44:41	5.000	4.930	1.942	2.237	2.055	59.625%		
2	21:44:49	4.989	5.196	2.170	2.176	2.209	57.629%		
3	21:44:57	4.989	4.965	2.413	2.193	2.210	56.256%		
x		4.993	5.031	2.175	2.202	2.158	57.837%		
σ		0.006	0.145	0.235	0.032	0.089	1.694%		
%RSD		0.130	2.877	10.820	1.438	4.134	2.929		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:47	71.990%	4.663	255.500	279.100	0.000	637700.000	75870.000	78050.000
2	21:49:55	63.819%	4.848	291.100	304.600	0.000	740300.000	85900.000	86440.000
3	21:50:02	65.451%	4.810	284.900	289.200	0.000	716000.000	85360.000	84770.000
x		67.087%	4.774	277.200	291.000	0.000	698000.000	82380.000	83090.000
σ		4.324%	0.098	19.010	12.820	0.000	53590.000	5639.000	4438.000
%RSD		6.445	2.043	6.860	4.407	0.000	7.677	6.845	5.341

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:47	177.600	1106.000	0.000	31130.000	37450.000	38510.000	76.805%	99.230
2	21:49:55	198.200	1227.000	0.000	31900.000	38130.000	40280.000	73.889%	100.900
3	21:50:02	197.800	1236.000	0.000	32960.000	38650.000	40320.000	73.382%	98.300
x		191.200	1190.000	0.000	32000.000	38080.000	39700.000	74.692%	99.480
σ		11.780	72.700	0.000	920.600	602.700	1033.000	1.848%	1.324
%RSD		6.162	6.111	0.000	2.877	1.583	2.601	2.474	1.331

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:47	46.310	18.440	59.380	90.160	238.600	45.790	43.970	22.910
2	21:49:55	46.980	18.520	61.310	92.200	230.300	45.600	45.560	22.340
3	21:50:02	48.660	18.830	62.340	93.080	229.300	46.740	46.610	23.040
x		47.310	18.600	61.010	91.810	232.800	46.050	45.380	22.760
σ		1.213	0.207	1.502	1.499	5.082	0.614	1.332	0.373
%RSD		2.564	1.114	2.462	1.633	2.183	1.333	2.935	1.638

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:47	22.790	44.560	44.960	4.175	1.176	45.680	0.000	623.100
2	21:49:55	22.970	43.310	42.130	3.980	1.101	45.850	0.000	618.000
3	21:50:02	23.710	43.330	41.990	3.685	1.387	50.050	0.000	620.100
x		23.160	43.730	43.030	3.947	1.221	47.190	0.000	620.400
σ		0.490	0.717	1.677	0.247	0.148	2.472	0.000	2.574
%RSD		2.115	1.638	3.896	6.245	12.130	5.239	0.000	0.415

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:47	68.972%	114.600	116.600	56.217%	4.620	4.327	5.252	9.254
2	21:49:55	69.780%	116.000	115.800	57.397%	4.260	4.302	5.099	9.209
3	21:50:02	70.727%	117.800	120.200	57.653%	4.484	4.421	5.626	9.017
x		69.826%	116.200	117.500	57.089%	4.455	4.350	5.326	9.160
σ		0.878%	1.596	2.366	0.766%	0.182	0.063	0.271	0.126
%RSD		1.258	1.374	2.013	1.342	4.078	1.437	5.092	1.370

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:47	61.483%	207.600	52.460	51.150	208.400	203.100	68.688%	69.779%
2	21:49:55	63.230%	205.900	50.620	50.740	198.500	202.800	70.577%	71.218%
3	21:50:02	62.337%	211.700	52.820	52.060	207.400	204.900	72.053%	71.606%
x		62.350%	208.400	51.970	51.310	204.800	203.600	70.440%	70.868%
σ		0.874%	3.006	1.179	0.676	5.457	1.130	1.687%	0.963%
%RSD		1.401	1.442	2.268	1.317	2.665	0.555	2.395	1.359

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:49:47	4.908	5.095	2.173	2.028	2.121	47.743%
2	21:49:55	5.116	5.111	2.279	1.815	2.103	49.228%
3	21:50:02	5.203	5.090	1.986	2.185	2.173	51.058%
x		5.076	5.099	2.146	2.009	2.132	49.343%
σ		0.152	0.011	0.148	0.186	0.036	1.660%
%RSD		2.987	0.214	6.915	9.252	1.697	3.365

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:55	64.708%	4.883	278.600	282.300	0.000	670400.000	79870.000	82240.000
2	21:55:03	66.856%	4.362	260.800	265.200	0.000	681300.000	81210.000	80370.000
3	21:55:11	61.795%	5.122	268.800	278.900	0.000	733700.000	86040.000	87130.000
x		64.453%	4.789	269.400	275.500	0.000	695200.000	82370.000	83250.000
σ		2.540%	0.389	8.915	9.056	0.000	33860.000	3248.000	3493.000
%RSD		3.941	8.115	3.309	3.287	0.000	4.871	3.943	4.197
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:55	210.700	1302.000	0.000	31400.000	37900.000	37620.000	73.594%	107.400
2	21:55:03	211.100	1290.000	0.000	32370.000	38390.000	38150.000	69.995%	104.700
3	21:55:11	225.800	1373.000	0.000	33130.000	39090.000	39370.000	69.778%	114.400
x		215.900	1322.000	0.000	32300.000	38460.000	38380.000	71.122%	108.800
σ		8.612	44.860	0.000	868.600	599.200	896.300	2.143%	4.984
%RSD		3.989	3.394	0.000	2.689	1.558	2.335	3.013	4.580
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:55	49.000	19.120	98.280	102.200	239.800	46.980	47.420	27.260
2	21:55:03	51.090	20.090	104.400	104.800	238.400	49.090	49.830	27.050
3	21:55:11	51.710	20.280	108.100	106.400	248.300	48.090	48.930	28.100
x		50.600	19.830	103.600	104.500	242.100	48.060	48.730	27.470
σ		1.418	0.619	4.979	2.141	5.375	1.052	1.214	0.557
%RSD		2.803	3.120	4.805	2.050	2.220	2.189	2.492	2.029
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:55	27.860	74.590	73.540	3.651	1.224	41.830	0.000	596.800
2	21:55:03	27.740	78.650	78.120	4.093	1.359	48.000	0.000	606.700
3	21:55:11	28.730	79.050	75.790	3.581	0.899	44.190	0.000	591.000
x		28.110	77.430	75.820	3.775	1.161	44.670	0.000	598.200
σ		0.538	2.465	2.292	0.278	0.236	3.112	0.000	7.974
%RSD		1.915	3.184	3.023	7.359	20.360	6.966	0.000	1.333
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:55	71.768%	123.100	126.200	60.675%	4.252	4.080	5.416	10.060
2	21:55:03	71.231%	128.800	128.800	60.419%	4.226	4.033	5.585	9.837
3	21:55:11	72.715%	124.500	129.200	61.831%	4.374	4.366	5.088	9.686
x		71.905%	125.400	128.100	60.975%	4.284	4.160	5.363	9.860
σ		0.751%	2.947	1.652	0.752%	0.079	0.180	0.253	0.186
%RSD		1.045	2.349	1.290	1.233	1.843	4.334	4.720	1.890
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:54:55	66.824%	225.400	57.530	55.920	212.000	214.400	75.391%	76.418%
2	21:55:03	67.743%	232.500	58.630	55.680	219.600	214.800	76.099%	77.959%
3	21:55:11	68.148%	231.300	57.370	56.020	221.000	213.500	76.285%	77.082%
x		67.572%	229.700	57.840	55.870	217.500	214.200	75.925%	77.153%
σ		0.678%	3.820	0.687	0.173	4.872	0.688	0.471%	0.773%
%RSD		1.004	1.663	1.187	0.310	2.240	0.321	0.621	1.002
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	21:54:55	4.748	4.388	2.627	2.517	2.444	74.111%		
2	21:55:03	4.518	4.521	2.434	2.360	2.442	77.081%		
3	21:55:11	4.455	4.639	2.710	2.463	2.500	77.214%		
x		4.573	4.516	2.590	2.446	2.462	76.136%		
σ		0.154	0.126	0.142	0.080	0.033	1.755%		
%RSD		3.376	2.781	5.463	3.258	1.338	2.304		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:01:44	74.757%	-0.064	41.910	45.060	0.000	146500.000	16480.000	17120.000
2	22:01:51	76.580%	-0.062	44.150	43.910	0.000	149200.000	16910.000	16990.000
3	22:01:59	73.575%	-0.054	46.010	46.740	0.000	155100.000	16900.000	17910.000
x		74.970%	-0.060	44.020	45.240	0.000	150300.000	16760.000	17340.000
σ		1.514%	0.005	2.052	1.422	0.000	4415.000	245.900	499.600
%RSD		2.019	8.697	4.660	3.143	0.000	2.938	1.467	2.881
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:01:44	2.617	0.012	0.000	5543.000	6893.000	6622.000	78.289%	0.154
2	22:01:51	2.639	-1.555	0.000	5748.000	6830.000	6789.000	78.754%	0.299
3	22:01:59	2.595	-0.882	0.000	5776.000	6704.000	6746.000	79.132%	0.005
x		2.617	-0.809	0.000	5689.000	6809.000	6719.000	78.725%	0.153
σ		0.022	0.786	0.000	127.000	96.030	86.730	0.422%	0.147
%RSD		0.847	97.210	0.000	2.233	1.410	1.291	0.537	96.440
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:01:44	0.080	0.055	2.991	-0.294	22.760	0.031	0.126	0.024
2	22:01:51	-0.009	0.035	3.120	-0.378	28.590	0.018	0.146	0.098
3	22:01:59	0.029	0.027	3.029	-0.356	27.060	0.020	0.030	0.062
x		0.033	0.039	3.047	-0.343	26.130	0.023	0.101	0.061
σ		0.045	0.014	0.066	0.043	3.022	0.007	0.062	0.037
%RSD		134.000	35.770	2.176	12.690	11.560	30.870	61.370	60.150
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:01:44	0.109	1.776	1.752	-0.060	-0.019	9.416	0.000	104.800
2	22:01:51	0.078	1.852	2.085	-0.028	0.013	8.753	0.000	102.800
3	22:01:59	-0.034	1.883	1.768	-0.061	-0.020	11.630	0.000	102.000
x		0.051	1.837	1.868	-0.050	-0.009	9.933	0.000	103.200
σ		0.075	0.055	0.188	0.018	0.019	1.507	0.000	1.413
%RSD		147.500	3.008	10.060	37.130	221.900	15.170	0.000	1.369
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:01:44	78.923%	1.010	1.420	69.098%	-0.342	-0.381	0.013	0.032
2	22:01:51	80.105%	1.222	1.126	70.122%	-0.346	-0.385	0.012	0.032
3	22:01:59	80.313%	1.080	1.171	69.503%	-0.349	-0.403	-0.005	0.068
x		79.780%	1.104	1.239	69.574%	-0.346	-0.390	0.007	0.044
σ		0.750%	0.108	0.158	0.516%	0.004	0.011	0.010	0.021
%RSD		0.940	9.802	12.770	0.741	1.014	2.914	144.100	47.290
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:01:44	73.858%	2.248	-0.008	-0.034	0.658	0.456	80.406%	80.742%
2	22:01:51	74.408%	2.080	0.012	-0.026	0.579	1.034	79.357%	80.611%
3	22:01:59	73.308%	1.819	0.072	-0.032	0.381	0.535	79.903%	80.280%
x		73.858%	2.049	0.025	-0.031	0.539	0.675	79.889%	80.544%
σ		0.550%	0.216	0.042	0.004	0.143	0.313	0.524%	0.238%
%RSD		0.744	10.550	164.400	13.870	26.410	46.420	0.656	0.296
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:01:44	0.017	0.011	0.025	0.031	0.038	66.308%		
2	22:01:51	0.002	0.008	0.060	0.029	0.053	64.371%		
3	22:01:59	-0.001	-0.002	0.054	0.050	0.055	62.118%		
x		0.006	0.006	0.047	0.037	0.049	64.266%		
σ		0.009	0.007	0.019	0.011	0.009	2.097%		
%RSD		157.400	115.800	40.980	30.930	18.920	3.263		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:50	91.007%	-0.076	10.350	10.330	0.000	26860.000	3007.000	3065.000
2	22:06:58	89.314%	-0.047	10.740	10.430	0.000	27230.000	3010.000	3015.000
3	22:07:05	86.421%	-0.069	10.880	10.970	0.000	29200.000	3171.000	3166.000
x		88.914%	-0.064	10.660	10.580	0.000	27770.000	3063.000	3082.000
σ		2.319%	0.015	0.272	0.346	0.000	1256.000	93.890	76.850
%RSD		2.608	24.160	2.554	3.274	0.000	4.522	3.066	2.493
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:50	2.875	-18.870	0.000	1140.000	1358.000	1340.000	88.922%	0.054
2	22:06:58	2.721	-17.730	0.000	1190.000	1444.000	1339.000	89.387%	0.010
3	22:07:05	2.711	-16.010	0.000	1168.000	1369.000	1348.000	89.184%	0.096
x		2.769	-17.540	0.000	1166.000	1390.000	1342.000	89.165%	0.053
σ		0.092	1.442	0.000	25.050	46.510	4.877	0.233%	0.043
%RSD		3.334	8.219	0.000	2.148	3.345	0.363	0.262	81.600
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:50	0.038	0.024	0.702	-0.216	4.884	0.006	0.101	0.045
2	22:06:58	0.047	0.022	0.669	-0.247	3.056	0.008	0.060	0.034
3	22:07:05	0.019	0.033	0.687	-0.315	5.413	0.002	0.061	-0.031
x		0.034	0.026	0.686	-0.259	4.451	0.005	0.074	0.016
σ		0.014	0.006	0.017	0.051	1.237	0.003	0.023	0.041
%RSD		41.460	23.080	2.430	19.620	27.790	54.770	31.730	252.300
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:50	0.012	1.418	0.907	-0.088	0.012	2.218	0.000	20.280
2	22:06:58	0.009	1.346	1.652	-0.089	-0.022	3.162	0.000	20.350
3	22:07:05	0.095	0.871	1.181	-0.101	-0.021	0.581	0.000	20.190
x		0.039	1.212	1.247	-0.092	-0.010	1.987	0.000	20.270
σ		0.049	0.297	0.377	0.007	0.019	1.306	0.000	0.079
%RSD		127.300	24.560	30.220	7.796	182.500	65.710	0.000	0.391
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:50	79.926%	0.309	0.293	71.789%	-0.350	-0.385	-0.004	0.011
2	22:06:58	83.126%	0.179	0.320	72.587%	-0.336	-0.403	-0.005	0.010
3	22:07:05	82.402%	0.366	0.196	73.172%	-0.343	-0.400	-0.005	-0.010
x		81.818%	0.285	0.270	72.516%	-0.343	-0.396	-0.005	0.004
σ		1.678%	0.096	0.065	0.694%	0.007	0.009	0.000	0.012
%RSD		2.051	33.750	24.170	0.958	1.932	2.373	0.478	330.300
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:50	72.851%	0.233	-0.064	-0.159	0.144	0.187	76.855%	77.171%
2	22:06:58	75.406%	0.277	-0.102	-0.136	0.218	0.131	78.838%	79.407%
3	22:07:05	75.935%	0.086	-0.075	-0.199	0.176	0.179	79.975%	80.671%
x		74.730%	0.198	-0.080	-0.164	0.179	0.165	78.556%	79.083%
σ		1.649%	0.100	0.020	0.032	0.037	0.030	1.579%	1.773%
%RSD		2.206	50.470	24.420	19.430	20.850	18.310	2.010	2.241
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:06:50	-0.013	-0.009	0.017	0.010	0.035	59.086%		
2	22:06:58	-0.020	-0.010	0.015	0.018	0.025	61.518%		
3	22:07:05	-0.021	-0.010	0.044	-0.002	0.026	64.064%		
x		-0.018	-0.010	0.025	0.008	0.029	61.556%		
σ		0.004	0.001	0.016	0.010	0.006	2.489%		
%RSD		24.210	7.204	63.630	120.900	19.300	4.044		

180-43250-G-28-B MS@50 5/8/2015 10:12:48 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:56	82.762%	1.016	63.920	63.960	0.000	149700.000	17010.000	17020.000
2	22:12:04	79.569%	1.124	67.860	69.440	0.000	148900.000	17400.000	17330.000
3	22:12:12	77.852%	1.005	67.110	66.690	0.000	151000.000	18550.000	18440.000
x		80.061%	1.048	66.300	66.700	0.000	149900.000	17650.000	17590.000
σ		2.492%	0.066	2.091	2.739	0.000	1076.000	801.500	744.400
%RSD		3.112	6.262	3.155	4.107	0.000	0.718	4.540	4.231
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:56	40.100	212.900	0.000	6957.000	8060.000	8069.000	83.844%	20.640
2	22:12:04	43.970	225.500	0.000	6901.000	8588.000	8175.000	83.533%	21.320
3	22:12:12	45.730	235.500	0.000	7029.000	8270.000	8325.000	80.701%	20.590
x		43.260	224.600	0.000	6962.000	8306.000	8189.000	82.693%	20.850
σ		2.884	11.360	0.000	64.020	265.800	128.500	1.732%	0.406
%RSD		6.665	5.055	0.000	0.920	3.201	1.569	2.095	1.946
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:56	9.725	3.890	13.030	18.910	54.490	9.815	9.648	5.302
2	22:12:04	9.661	3.861	13.680	19.450	47.220	10.160	9.416	5.231
3	22:12:12	10.450	4.044	13.710	20.400	51.640	10.020	10.470	5.269
x		9.946	3.932	13.470	19.590	51.120	9.998	9.845	5.267
σ		0.440	0.098	0.385	0.756	3.663	0.172	0.555	0.036
%RSD		4.426	2.503	2.861	3.860	7.165	1.724	5.640	0.677
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:56	5.270	11.660	9.476	0.827	0.312	10.250	0.000	126.200
2	22:12:04	5.033	11.500	11.180	0.657	0.272	9.965	0.000	127.500
3	22:12:12	5.279	11.070	11.580	0.719	0.208	10.840	0.000	128.200
x		5.194	11.410	10.740	0.734	0.264	10.350	0.000	127.300
σ		0.140	0.306	1.116	0.086	0.053	0.446	0.000	1.042
%RSD		2.691	2.679	10.390	11.740	19.950	4.306	0.000	0.819
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:56	78.043%	23.470	22.850	70.570%	0.815	0.635	1.075	2.015
2	22:12:04	80.473%	22.770	23.030	71.343%	0.729	0.586	1.337	1.873
3	22:12:12	80.990%	22.340	22.790	73.249%	0.626	0.553	1.153	2.005
x		79.835%	22.860	22.890	71.721%	0.723	0.591	1.188	1.964
σ		1.574%	0.573	0.123	1.379%	0.095	0.041	0.134	0.079
%RSD		1.971	2.504	0.537	1.922	13.070	6.969	11.310	4.022
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:56	76.273%	39.780	10.830	10.480	43.700	44.920	81.187%	82.125%
2	22:12:04	77.647%	38.880	10.350	10.750	42.210	42.730	81.776%	82.658%
3	22:12:12	76.982%	39.750	10.660	10.480	44.390	42.270	81.763%	83.615%
x		76.967%	39.470	10.610	10.570	43.430	43.310	81.576%	82.799%
σ		0.687%	0.510	0.245	0.156	1.116	1.416	0.337%	0.755%
%RSD		0.893	1.292	2.304	1.480	2.569	3.269	0.413	0.911
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:11:56	0.917	0.934	0.397	0.554	0.447	74.712%		
2	22:12:04	0.909	0.966	0.358	0.506	0.412	75.945%		
3	22:12:12	1.005	0.977	0.425	0.355	0.419	76.364%		
x		0.944	0.959	0.393	0.472	0.426	75.674%		
σ		0.053	0.023	0.034	0.104	0.019	0.859%		
%RSD		5.627	2.353	8.520	22.070	4.398	1.135		

180-43250-G-28-C MSD@50 5/8/2015 10:17:56 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:03	76.946%	0.923	67.530	64.460	0.000	145000.000	17630.000	17690.000
2	22:17:10	75.770%	0.973	63.760	64.260	0.000	149100.000	17710.000	18040.000
3	22:17:18	76.591%	0.959	60.450	64.030	0.000	153700.000	17990.000	18560.000
x		76.436%	0.952	63.910	64.250	0.000	149300.000	17780.000	18100.000
σ		0.603%	0.026	3.544	0.215	0.000	4390.000	191.300	440.900
%RSD		0.789	2.716	5.545	0.335	0.000	2.941	1.076	2.436
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:03	41.140	224.000	0.000	6418.000	7313.000	7447.000	86.965%	19.990
2	22:17:10	41.100	237.300	0.000	6685.000	7612.000	7609.000	83.188%	21.410
3	22:17:18	44.840	242.500	0.000	7036.000	8316.000	7943.000	79.005%	21.920
x		42.360	234.600	0.000	6713.000	7747.000	7666.000	83.053%	21.100
σ		2.148	9.548	0.000	309.700	514.700	253.100	3.981%	1.001
%RSD		5.071	4.070	0.000	4.613	6.644	3.302	4.794	4.742
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:03	9.166	3.821	12.050	17.580	43.740	9.457	10.050	4.713
2	22:17:10	9.771	3.896	13.050	18.020	46.080	9.466	10.720	5.247
3	22:17:18	9.681	4.038	13.790	18.960	45.230	10.200	10.900	5.336
x		9.539	3.918	12.970	18.190	45.020	9.708	10.560	5.099
σ		0.327	0.110	0.873	0.702	1.185	0.426	0.453	0.337
%RSD		3.423	2.802	6.735	3.861	2.632	4.390	4.288	6.605
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:03	5.181	15.670	16.480	0.710	0.142	9.281	0.000	123.300
2	22:17:10	4.628	15.580	15.420	0.887	0.077	11.100	0.000	122.200
3	22:17:18	5.375	15.960	17.060	0.743	0.112	10.030	0.000	124.400
x		5.061	15.740	16.320	0.780	0.110	10.140	0.000	123.300
σ		0.388	0.202	0.835	0.094	0.032	0.912	0.000	1.091
%RSD		7.657	1.281	5.114	12.100	29.110	8.993	0.000	0.885
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:03	79.560%	22.940	22.440	69.676%	0.869	0.573	1.148	1.883
2	22:17:10	80.214%	22.990	23.970	69.204%	0.606	0.622	0.997	2.013
3	22:17:18	80.251%	23.340	23.420	69.264%	0.652	0.600	1.094	1.911
x		80.008%	23.090	23.270	69.382%	0.709	0.598	1.080	1.935
σ		0.389%	0.220	0.775	0.257%	0.141	0.024	0.077	0.068
%RSD		0.486	0.955	3.331	0.370	19.850	4.065	7.105	3.537
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:17:03	74.417%	39.730	10.600	11.080	43.580	41.600	80.596%	80.642%
2	22:17:10	74.551%	39.320	10.700	10.730	40.600	41.850	80.950%	82.332%
3	22:17:18	75.034%	39.690	10.370	10.070	41.920	42.680	80.605%	80.662%
x		74.667%	39.580	10.560	10.630	42.030	42.040	80.717%	81.212%
σ		0.325%	0.229	0.170	0.512	1.493	0.568	0.202%	0.970%
%RSD		0.435	0.578	1.613	4.814	3.552	1.352	0.250	1.194
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:17:03	0.959	0.892	0.360	0.329	0.389	70.321%		
2	22:17:10	0.932	0.990	0.388	0.375	0.390	67.249%		
3	22:17:18	1.048	0.967	0.495	0.350	0.428	65.558%		
x		0.980	0.950	0.414	0.352	0.402	67.709%		
σ		0.061	0.051	0.071	0.023	0.022	2.414%		
%RSD		6.185	5.371	17.230	6.520	5.456	3.566		

CCV 1558997 5/8/2015 10:23:01 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:11	79.563%	113.900	98.170	102.700	0.000	49390.000	50710.000	50250.000
2	22:22:18	79.954%	113.600	98.550	95.220	0.000	49390.000	50820.000	50840.000
3	22:22:26	80.273%	110.100	102.500	101.200	0.000	51170.000	48680.000	48570.000
x		79.930%	112.536%	99.748%	99.711%	0.000	99.974%	100.136%	99.777%
σ		0.355%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		0.445	1.869	2.418	3.975	0.000	2.056	2.410	2.357
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:11	484.600	5759.000	0.000	49680.000	47010.000	48020.000	87.268%	94.300
2	22:22:18	499.100	6117.000	0.000	51340.000	50430.000	50210.000	84.740%	99.190
3	22:22:26	506.900	6051.000	0.000	53650.000	52360.000	51680.000	83.577%	102.500
x		99.372%	119.511%	0.000	103.112%	99.870%	99.935%	85.195%	98.663%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.887%	n/a
%RSD		2.271	3.189	0.000	3.868	5.423	3.680	2.215	4.175
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:11	90.670	92.290	502.000	22950.000	22960.000	93.160	95.620	98.090
2	22:22:18	93.880	92.970	522.700	23190.000	23110.000	97.080	97.550	97.470
3	22:22:26	97.740	97.890	534.200	23100.000	22950.000	94.570	97.600	99.420
x		94.097%	94.385%	103.924%	92.313%	92.027%	94.935%	96.923%	98.326%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		3.765	3.236	3.143	0.524	0.394	2.091	1.164	1.017
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:11	99.380	103.600	100.000	104.900	107.600	106.400	0.000	99.640
2	22:22:18	98.390	103.400	101.900	102.700	101.800	98.940	0.000	97.310
3	22:22:26	100.500	102.700	99.910	102.800	99.520	100.600	0.000	97.650
x		99.407%	103.215%	100.606%	103.487%	102.960%	101.959%	0.000	98.204%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		1.036	0.480	1.129	1.217	4.030	3.837	0.000	1.280
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:11	77.109%	104.900	107.300	66.484%	101.800	100.600	103.300	106.300
2	22:22:18	79.666%	107.000	104.200	68.034%	102.900	102.700	103.200	106.100
3	22:22:26	82.258%	106.000	106.700	68.028%	105.700	104.100	102.700	105.300
x		79.678%	105.987%	106.047%	67.515%	103.493%	102.462%	103.062%	105.920%
σ		2.574%	n/a	n/a	0.893%	n/a	n/a	n/a	n/a
%RSD		3.231	1.000	1.533	1.322	1.956	1.758	0.322	0.486
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:22:11	70.661%	102.800	103.200	102.800	104.900	106.100	74.613%	73.663%
2	22:22:18	71.075%	102.500	105.600	106.000	103.600	104.500	76.454%	75.657%
3	22:22:26	72.640%	102.500	104.300	104.600	106.500	106.200	77.421%	76.926%
x		71.459%	102.595%	104.372%	104.506%	104.996%	105.627%	76.163%	75.415%
σ		1.044%	n/a	n/a	n/a	n/a	n/a	1.426%	1.645%
%RSD		1.461	0.149	1.151	1.533	1.341	0.887	1.873	2.182
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:22:11	102.800	102.500	102.500	103.900	102.900	52.886%		
2	22:22:18	102.500	101.300	101.000	102.400	102.000	55.322%		
3	22:22:26	101.900	100.900	102.900	103.300	103.000	57.129%		
x		102.390%	101.569%	102.160%	103.181%	102.653%	55.112%		
σ		n/a	n/a	n/a	n/a	n/a	2.129%		
%RSD		0.452	0.838	0.969	0.719	0.524	3.864		

CCB10 5/8/2015 10:32:06 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:14	100.736%	-0.064	0.698	0.573	0.000	12.970	5.991	5.489
2	22:31:21	94.626%	-0.065	0.838	0.686	0.000	14.330	6.497	6.610
3	22:31:29	94.784%	-0.056	0.844	0.582	0.000	13.360	7.332	6.410
x		96.715%	-0.061	0.793	0.614	0.000	13.560	6.607	6.170
σ		3.483%	0.005	0.083	0.063	0.000	0.700	0.677	0.598
%RSD		3.601	8.098	10.440	10.200	0.000	5.164	10.250	9.696

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:14	1.172	-19.850	0.000	10.520	4.483	17.070	97.068%	0.017
2	22:31:21	1.284	-16.300	0.000	12.040	6.960	16.100	94.273%	0.043
3	22:31:29	1.173	-17.760	0.000	10.150	19.360	17.880	94.959%	0.264
x		1.210	-17.970	0.000	10.910	10.270	17.020	95.433%	0.108
σ		0.065	1.788	0.000	1.002	7.974	0.891	1.456%	0.136
%RSD		5.334	9.951	0.000	9.187	77.650	5.233	1.526	125.700

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:14	-0.006	0.012	0.086	9.141	6.421	0.007	0.092	0.045
2	22:31:21	0.039	0.033	0.100	9.093	8.459	0.032	0.096	0.086
3	22:31:29	0.062	0.009	0.096	8.270	5.819	0.019	0.121	0.047
x		0.031	0.018	0.094	8.834	6.900	0.020	0.103	0.059
σ		0.035	0.013	0.008	0.490	1.383	0.013	0.016	0.023
%RSD		110.100	73.050	7.986	5.542	20.050	65.600	15.150	39.250

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:14	-0.005	0.990	1.220	-0.038	0.003	0.414	0.000	0.019
2	22:31:21	0.021	1.278	1.481	-0.014	0.004	1.217	0.000	0.033
3	22:31:29	-0.035	1.168	1.544	-0.065	0.004	1.129	0.000	0.026
x		-0.006	1.145	1.415	-0.039	0.004	0.920	0.000	0.026
σ		0.028	0.146	0.172	0.025	0.000	0.440	0.000	0.007
%RSD		434.900	12.710	12.150	64.740	10.400	47.850	0.000	27.600

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:14	92.831%	0.237	0.160	88.570%	-0.310	-0.370	0.009	0.022
2	22:31:21	91.993%	0.269	0.332	89.030%	-0.316	-0.376	0.023	-0.007
3	22:31:29	92.776%	0.137	0.270	88.744%	-0.313	-0.376	0.009	0.016
x		92.533%	0.214	0.254	88.782%	-0.313	-0.374	0.014	0.010
σ		0.469%	0.069	0.087	0.232%	0.003	0.003	0.008	0.015
%RSD		0.506	32.250	34.180	0.261	0.924	0.902	57.310	150.000

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:14	90.418%	-0.477	-0.032	-0.225	0.013	0.023	90.851%	90.741%
2	22:31:21	90.974%	-0.580	-0.038	-0.127	0.149	0.045	89.787%	90.266%
3	22:31:29	91.082%	-0.330	-0.068	-0.165	0.047	0.087	90.772%	90.560%
x		90.824%	-0.462	-0.046	-0.172	0.070	0.052	90.470%	90.522%
σ		0.356%	0.126	0.019	0.049	0.071	0.032	0.593%	0.240%
%RSD		0.392	27.200	41.600	28.410	101.300	62.450	0.655	0.265

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:31:14	0.055	0.053	0.050	-0.006	0.026	92.837%
2	22:31:21	0.020	0.052	0.026	0.016	0.025	92.909%
3	22:31:29	0.041	0.044	0.020	0.001	0.019	92.008%
x		0.039	0.050	0.032	0.004	0.023	92.585%
σ		0.017	0.005	0.016	0.011	0.004	0.501%
%RSD		44.910	10.320	48.970	295.800	16.090	0.541

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:23	85.412%	1.051	63.190	61.730	0.000	126800.000	16260.000	16160.000
2	22:36:31	84.291%	1.021	64.700	65.780	0.000	128700.000	16130.000	16060.000
3	22:36:38	83.644%	1.112	62.550	62.710	0.000	136700.000	16830.000	16540.000
x		84.449%	1.061	63.480	63.410	0.000	130700.000	16410.000	16250.000
σ		0.894%	0.046	1.106	2.110	0.000	5271.000	373.900	255.300
%RSD		1.059	4.368	1.743	3.327	0.000	4.031	2.279	1.571
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:23	50.260	237.200	0.000	6293.000	7420.000	7410.000	87.968%	21.000
2	22:36:31	51.340	234.800	0.000	6601.000	7366.000	7512.000	85.760%	22.270
3	22:36:38	51.730	238.800	0.000	6643.000	7785.000	7676.000	84.647%	21.260
x		51.110	236.900	0.000	6512.000	7524.000	7533.000	86.125%	21.510
σ		0.762	1.980	0.000	191.100	227.700	134.500	1.691%	0.667
%RSD		1.491	0.836	0.000	2.934	3.027	1.786	1.963	3.100
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:23	9.901	3.849	12.270	22.000	49.130	9.181	9.349	5.168
2	22:36:31	9.855	3.941	12.760	22.570	47.180	10.110	10.050	5.196
3	22:36:38	9.918	3.976	12.920	23.560	49.780	9.639	9.913	4.840
x		9.891	3.922	12.650	22.710	48.700	9.643	9.771	5.068
σ		0.032	0.065	0.342	0.790	1.352	0.465	0.373	0.198
%RSD		0.328	1.666	2.702	3.477	2.777	4.818	3.814	3.904
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:23	5.538	10.880	9.818	0.862	0.367	10.630	0.000	116.600
2	22:36:31	5.390	11.020	10.690	0.889	0.242	7.742	0.000	118.300
3	22:36:38	4.910	11.430	10.970	0.752	0.109	9.704	0.000	113.000
x		5.279	11.110	10.490	0.834	0.239	9.360	0.000	116.000
σ		0.329	0.283	0.600	0.072	0.129	1.476	0.000	2.726
%RSD		6.223	2.543	5.720	8.645	54.000	15.770	0.000	2.351
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:23	79.763%	24.100	24.350	68.548%	0.823	0.836	1.348	1.749
2	22:36:31	79.005%	23.630	24.540	67.871%	0.849	0.882	1.302	1.922
3	22:36:38	80.693%	22.900	22.730	68.150%	0.886	0.798	1.041	1.703
x		79.820%	23.540	23.870	68.190%	0.852	0.839	1.230	1.791
σ		0.845%	0.603	0.992	0.340%	0.032	0.042	0.166	0.115
%RSD		1.059	2.562	4.153	0.499	3.709	5.027	13.460	6.429
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:36:23	71.101%	42.410	11.200	11.440	43.590	43.680	76.302%	77.218%
2	22:36:31	72.385%	41.550	10.890	10.680	43.400	44.020	75.971%	76.639%
3	22:36:38	72.189%	41.750	10.580	10.770	41.300	41.460	77.216%	77.142%
x		71.892%	41.900	10.890	10.960	42.760	43.050	76.496%	76.999%
σ		0.692%	0.449	0.312	0.416	1.268	1.389	0.645%	0.315%
%RSD		0.963	1.071	2.862	3.790	2.965	3.226	0.843	0.409
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:36:23	0.989	1.021	0.421	0.471	0.449	58.969%		
2	22:36:31	0.997	1.010	0.470	0.464	0.452	59.219%		
3	22:36:38	1.098	0.952	0.457	0.409	0.417	56.706%		
x		1.028	0.995	0.450	0.448	0.439	58.298%		
σ		0.061	0.037	0.026	0.034	0.020	1.384%		
%RSD		5.910	3.757	5.682	7.591	4.482	2.374		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:32	86.094%	-0.039	43.910	49.570	0.000	128500.000	14750.000	15400.000
2	22:41:39	85.094%	-0.056	43.350	44.310	0.000	127900.000	14680.000	14940.000
3	22:41:47	83.237%	-0.036	44.410	47.290	0.000	135500.000	15510.000	15690.000
x		84.808%	-0.044	43.890	47.060	0.000	130700.000	14980.000	15340.000
σ		1.450%	0.011	0.528	2.638	0.000	4239.000	459.200	379.200
%RSD		1.709	24.240	1.204	5.605	0.000	3.244	3.065	2.472
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:32	2.550	32.710	0.000	5363.000	5311.000	5194.000	86.430%	-0.008
2	22:41:39	2.541	31.780	0.000	5304.000	5333.000	5236.000	84.933%	0.153
3	22:41:47	2.639	33.630	0.000	5678.000	5443.000	5622.000	81.585%	-0.023
x		2.577	32.710	0.000	5448.000	5362.000	5351.000	84.316%	0.041
σ		0.054	0.926	0.000	200.900	70.960	236.000	2.481%	0.098
%RSD		2.110	2.830	0.000	3.687	1.323	4.410	2.942	239.300
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:32	0.041	0.029	1.428	0.700	20.870	0.010	0.025	0.151
2	22:41:39	0.070	0.019	1.445	1.343	19.590	0.010	0.015	0.111
3	22:41:47	0.062	0.043	1.666	1.016	19.570	0.007	0.199	0.090
x		0.058	0.030	1.513	1.020	20.010	0.009	0.080	0.118
σ		0.015	0.012	0.133	0.321	0.743	0.002	0.103	0.031
%RSD		25.430	39.240	8.784	31.510	3.715	23.050	129.900	26.400
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:32	0.066	0.877	0.695	0.011	-0.021	7.215	0.000	88.020
2	22:41:39	0.084	0.753	0.958	0.067	-0.053	9.988	0.000	88.760
3	22:41:47	0.277	0.920	0.809	-0.025	-0.021	8.449	0.000	87.860
x		0.142	0.850	0.821	0.018	-0.031	8.551	0.000	88.210
σ		0.117	0.086	0.132	0.046	0.018	1.389	0.000	0.478
%RSD		82.200	10.160	16.080	265.100	58.630	16.250	0.000	0.542
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:32	81.346%	0.833	0.584	70.826%	-0.333	-0.382	-0.004	0.059
2	22:41:39	82.085%	0.747	0.761	72.396%	-0.340	-0.400	-0.005	0.010
3	22:41:47	82.883%	0.688	0.617	73.748%	-0.334	-0.393	0.012	0.049
x		82.105%	0.756	0.654	72.323%	-0.335	-0.392	0.001	0.039
σ		0.769%	0.073	0.094	1.462%	0.004	0.009	0.009	0.026
%RSD		0.936	9.662	14.350	2.022	1.177	2.284	1043.000	66.340
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:41:32	74.691%	0.812	0.111	-0.036	1.324	1.369	80.886%	81.790%
2	22:41:39	76.557%	0.499	0.091	-0.112	1.025	1.583	82.328%	83.481%
3	22:41:47	77.933%	0.351	0.108	-0.080	1.434	1.109	82.637%	83.888%
x		76.394%	0.554	0.103	-0.076	1.261	1.354	81.950%	83.053%
σ		1.627%	0.236	0.011	0.038	0.212	0.237	0.935%	1.112%
%RSD		2.130	42.480	10.340	49.770	16.790	17.520	1.141	1.339
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:41:32	-0.009	0.013	0.015	0.008	0.018	69.211%		
2	22:41:39	-0.001	0.005	0.010	0.015	0.009	70.894%		
3	22:41:47	-0.016	-0.009	-0.014	-0.002	0.006	73.024%		
x		-0.009	0.003	0.004	0.007	0.011	71.043%		
σ		0.008	0.011	0.015	0.009	0.006	1.911%		
%RSD		85.470	372.100	413.300	126.400	55.790	2.690		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:40	77.861%	0.058	38.940	37.790	0.000	123400.000	13760.000	14020.000
2	22:46:48	81.997%	0.107	35.230	37.740	0.000	121600.000	13700.000	13870.000
3	22:46:55	82.080%	0.033	35.520	35.750	0.000	119800.000	13990.000	14610.000
x		80.646%	0.066	36.560	37.090	0.000	121600.000	13820.000	14170.000
σ		2.412%	0.037	2.063	1.165	0.000	1804.000	150.700	392.900
%RSD		2.991	56.670	5.643	3.141	0.000	1.484	1.090	2.773
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:40	402.700	4.927	0.000	4527.000	7732.000	7740.000	86.070%	0.396
2	22:46:48	392.100	7.125	0.000	4724.000	8190.000	7905.000	84.679%	0.177
3	22:46:55	409.700	7.442	0.000	4615.000	8209.000	7994.000	83.074%	0.044
x		401.500	6.498	0.000	4622.000	8044.000	7880.000	84.608%	0.206
σ		8.862	1.370	0.000	98.290	270.400	129.200	1.499%	0.177
%RSD		2.207	21.080	0.000	2.126	3.361	1.639	1.772	86.310
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:40	-0.086	1.541	5.347	3.993	38.980	0.114	2.401	9.785
2	22:46:48	0.013	1.573	5.415	3.679	32.370	0.115	2.192	10.550
3	22:46:55	0.059	1.605	5.788	4.238	31.590	0.151	2.203	9.907
x		-0.005	1.573	5.517	3.970	34.310	0.126	2.266	10.080
σ		0.074	0.032	0.237	0.281	4.059	0.021	0.118	0.410
%RSD		1582.000	2.033	4.303	7.067	11.830	16.770	5.197	4.067
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:40	10.910	6.057	5.002	-0.082	-0.053	5.174	0.000	103.300
2	22:46:48	10.440	5.800	5.318	-0.027	-0.021	7.327	0.000	102.100
3	22:46:55	10.680	5.834	5.882	0.010	0.042	7.949	0.000	104.700
x		10.680	5.897	5.401	-0.033	-0.011	6.817	0.000	103.400
σ		0.236	0.140	0.446	0.047	0.048	1.456	0.000	1.337
%RSD		2.207	2.367	8.259	140.400	450.200	21.360	0.000	1.293
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:40	82.949%	0.415	0.380	75.216%	-0.315	-0.393	0.043	0.041
2	22:46:48	83.943%	0.272	0.389	75.821%	-0.334	-0.387	0.011	0.001
3	22:46:55	83.653%	0.283	0.437	76.245%	-0.350	-0.394	0.011	-0.018
x		83.515%	0.323	0.402	75.761%	-0.333	-0.391	0.022	0.008
σ		0.511%	0.080	0.030	0.517%	0.018	0.004	0.018	0.030
%RSD		0.612	24.580	7.568	0.683	5.335	0.937	84.870	365.000
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:46:40	80.162%	-0.406	0.982	0.742	1.525	1.520	82.535%	83.635%
2	22:46:48	81.357%	-0.475	0.912	0.900	1.237	1.561	84.467%	84.356%
3	22:46:55	80.512%	-0.447	1.060	0.809	1.094	1.613	84.772%	86.176%
x		80.677%	-0.443	0.985	0.817	1.285	1.564	83.925%	84.722%
σ		0.615%	0.034	0.074	0.079	0.219	0.047	1.213%	1.310%
%RSD		0.762	7.779	7.527	9.699	17.060	2.986	1.445	1.546
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:46:40	-0.009	-0.017	0.169	0.134	0.147	79.994%		
2	22:46:48	-0.012	-0.009	0.096	0.111	0.136	80.347%		
3	22:46:55	-0.017	-0.016	0.142	0.123	0.137	79.765%		
x		-0.013	-0.014	0.136	0.123	0.140	80.036%		
σ		0.004	0.004	0.037	0.011	0.006	0.293%		
%RSD		31.450	28.700	27.350	9.201	4.529	0.366		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:46	62.420%	-0.066	26.070	26.210	0.000	104.000	5.760	4.749
2	22:51:54	66.233%	-0.030	25.400	24.130	0.000	102.600	4.760	6.020
3	22:52:02	59.679%	-0.071	27.990	27.460	0.000	105.900	5.202	5.026
x		62.777%	-0.056	26.490	25.940	0.000	104.200	5.240	5.265
σ		3.291%	0.022	1.341	1.684	0.000	1.664	0.501	0.668
%RSD		5.243	39.610	5.064	6.492	0.000	1.597	9.561	12.690
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:46	13.330	79.620	0.000	17.280	34.440	26.150	61.245%	0.330
2	22:51:54	14.790	89.100	0.000	20.040	13.610	27.460	57.580%	0.093
3	22:52:02	15.380	105.400	0.000	19.890	17.230	27.720	56.758%	0.266
x		14.500	91.370	0.000	19.070	21.760	27.110	58.528%	0.230
σ		1.058	13.040	0.000	1.555	11.130	0.841	2.389%	0.123
%RSD		7.296	14.270	0.000	8.156	51.160	3.103	4.081	53.480
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:46	-1.656	0.718	0.161	7.197	6.956	0.005	0.219	0.153
2	22:51:54	-0.180	0.745	0.192	6.194	7.084	0.014	0.422	0.189
3	22:52:02	-0.886	0.811	0.184	5.299	5.889	0.000	0.353	0.119
x		-0.907	0.758	0.179	6.230	6.643	0.007	0.331	0.154
σ		0.738	0.048	0.016	0.950	0.656	0.007	0.103	0.035
%RSD		81.360	6.321	8.896	15.240	9.875	109.500	31.150	22.900
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:46	0.202	5.120	4.508	-0.017	-0.053	2.165	0.000	0.201
2	22:51:54	0.136	5.241	5.521	0.082	-0.053	2.161	0.000	0.149
3	22:52:02	0.245	5.502	5.162	0.014	0.072	0.957	0.000	0.150
x		0.194	5.288	5.063	0.026	-0.011	1.761	0.000	0.167
σ		0.055	0.195	0.514	0.051	0.072	0.696	0.000	0.029
%RSD		28.300	3.691	10.140	193.400	644.400	39.550	0.000	17.660
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:46	62.245%	0.028	0.076	60.714%	-0.336	-0.393	-0.005	0.077
2	22:51:54	64.379%	0.039	0.209	60.174%	-0.344	-0.397	-0.004	0.026
3	22:52:02	66.018%	-0.009	0.062	60.850%	-0.336	-0.372	-0.005	0.060
x		64.214%	0.019	0.116	60.580%	-0.338	-0.388	-0.005	0.054
σ		1.892%	0.025	0.081	0.358%	0.005	0.013	0.000	0.026
%RSD		2.946	128.100	70.090	0.590	1.382	3.444	0.719	48.200
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:51:46	60.973%	1.678	0.089	-0.029	2.851	3.126	67.979%	70.188%
2	22:51:54	62.146%	1.412	0.068	-0.098	2.665	3.433	68.709%	70.324%
3	22:52:02	61.226%	1.180	0.010	-0.063	3.247	3.299	69.274%	71.216%
x		61.448%	1.423	0.056	-0.063	2.921	3.286	68.654%	70.576%
σ		0.618%	0.249	0.041	0.034	0.297	0.154	0.649%	0.558%
%RSD		1.005	17.510	73.010	54.120	10.180	4.683	0.946	0.791
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	22:51:46	0.005	0.017	0.031	0.020	0.041	59.175%		
2	22:51:54	-0.013	-0.004	0.045	0.040	0.041	58.753%		
3	22:52:02	-0.009	-0.007	0.022	0.025	0.034	58.417%		
x		-0.006	0.002	0.033	0.028	0.038	58.782%		
σ		0.009	0.013	0.012	0.010	0.004	0.380%		
%RSD		162.000	749.700	35.820	36.520	11.090	0.646		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:53	64.854%	-0.068	24.600	24.810	0.000	75.670	3.897	3.262
2	22:57:00	66.678%	-0.041	21.310	21.930	0.000	75.730	3.953	3.065
3	22:57:08	65.250%	-0.072	22.760	21.600	0.000	76.480	2.831	2.874
x		65.594%	-0.060	22.890	22.780	0.000	75.960	3.560	3.067
σ		0.959%	0.017	1.649	1.766	0.000	0.454	0.632	0.194
%RSD		1.463	28.270	7.203	7.754	0.000	0.597	17.760	6.327

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:53	14.980	114.300	0.000	13.550	0.588	22.970	65.250%	0.567
2	22:57:00	14.630	113.900	0.000	10.810	16.020	21.760	65.309%	0.419
3	22:57:08	14.870	122.400	0.000	15.300	11.200	22.570	59.479%	0.409
x		14.830	116.900	0.000	13.220	9.269	22.430	63.346%	0.465
σ		0.181	4.799	0.000	2.262	7.894	0.616	3.349%	0.088
%RSD		1.218	4.106	0.000	17.110	85.180	2.744	5.287	19.020

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:53	-1.358	0.767	0.222	3.996	4.579	0.005	0.076	0.346
2	22:57:00	-1.078	0.705	0.192	3.753	5.079	-0.003	0.138	0.273
3	22:57:08	-1.108	0.766	0.297	4.266	4.815	0.011	0.109	0.292
x		-1.181	0.746	0.237	4.005	4.824	0.004	0.108	0.303
σ		0.154	0.035	0.054	0.256	0.250	0.007	0.031	0.038
%RSD		12.990	4.719	22.670	6.401	5.178	168.100	28.740	12.610

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:53	0.284	6.982	7.333	0.032	-0.012	1.815	0.000	0.062
2	22:57:00	0.302	8.347	7.243	-0.040	-0.053	1.024	0.000	0.099
3	22:57:08	0.297	7.399	7.493	0.024	-0.053	1.384	0.000	0.092
x		0.294	7.576	7.357	0.005	-0.039	1.407	0.000	0.084
σ		0.009	0.700	0.127	0.039	0.023	0.396	0.000	0.020
%RSD		3.159	9.233	1.719	772.300	59.110	28.140	0.000	23.410

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:53	65.581%	-0.010	0.016	62.107%	-0.348	-0.390	-0.005	0.017
2	22:57:00	67.037%	0.053	-0.033	65.350%	-0.345	-0.410	-0.005	0.038
3	22:57:08	68.946%	-0.031	-0.024	63.847%	-0.345	-0.394	0.014	0.007
x		67.188%	0.004	-0.013	63.768%	-0.346	-0.398	0.002	0.021
σ		1.688%	0.044	0.026	1.623%	0.002	0.011	0.011	0.016
%RSD		2.512	999.100	193.200	2.546	0.554	2.668	620.000	76.680

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:53	63.041%	-0.133	-0.061	-0.111	0.210	0.414	70.894%	72.089%
2	22:57:00	66.038%	-0.534	-0.032	-0.128	0.158	0.288	72.380%	73.319%
3	22:57:08	66.105%	-0.263	-0.113	-0.139	0.068	0.367	74.132%	75.297%
x		65.061%	-0.310	-0.069	-0.126	0.145	0.356	72.469%	73.568%
σ		1.750%	0.205	0.041	0.014	0.072	0.064	1.621%	1.619%
%RSD		2.690	66.050	59.270	10.970	49.680	17.900	2.236	2.200

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:53	-0.010	-0.019	0.164	0.128	0.166	62.752%
2	22:57:00	-0.008	-0.015	0.213	0.067	0.148	66.322%
3	22:57:08	-0.018	-0.014	0.109	0.106	0.147	68.331%
x		-0.012	-0.016	0.162	0.100	0.154	65.802%
σ		0.005	0.003	0.052	0.031	0.011	2.826%
%RSD		42.200	18.930	32.200	30.880	6.939	4.294

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:59	68.263%	0.001	1.365	1.588	0.000	7332.000	6727.000	6400.000
2	23:02:07	62.849%	-0.046	1.859	1.772	0.000	7698.000	7230.000	7114.000
3	23:02:14	61.571%	0.004	1.500	1.770	0.000	7730.000	7190.000	7186.000
x		64.228%	-0.013	1.574	1.710	0.000	7586.000	7049.000	6900.000
σ		3.552%	0.028	0.255	0.106	0.000	221.200	279.800	434.500
%RSD		5.531	211.100	16.210	6.170	0.000	2.916	3.970	6.297
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:59	8.067	10360.000	0.000	4467.000	33270.000	34760.000	65.313%	0.861
2	23:02:07	9.367	10850.000	0.000	4594.000	34800.000	36120.000	63.204%	1.565
3	23:02:14	9.386	11860.000	0.000	4767.000	36420.000	37380.000	61.540%	1.392
x		8.940	11020.000	0.000	4609.000	34830.000	36090.000	63.352%	1.272
σ		0.756	768.400	0.000	150.700	1576.000	1309.000	1.891%	0.367
%RSD		8.456	6.972	0.000	3.269	4.524	3.628	2.985	28.820
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:59	0.452	0.660	12430.000	22540.000	21930.000	49.500	3.074	0.129
2	23:02:07	0.378	0.732	12930.000	23110.000	21820.000	49.310	3.081	0.186
3	23:02:14	-0.768	0.695	13000.000	23290.000	22560.000	50.100	3.110	0.118
x		0.020	0.696	12780.000	22980.000	22100.000	49.640	3.089	0.144
σ		0.684	0.036	311.100	393.500	403.000	0.410	0.019	0.036
%RSD		3358.000	5.131	2.434	1.712	1.823	0.825	0.605	25.240
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:59	0.106	13.440	13.730	0.934	-0.053	1.861	0.000	264.800
2	23:02:07	0.297	13.900	12.540	1.303	0.061	2.753	0.000	266.900
3	23:02:14	0.210	13.990	12.810	1.273	0.060	1.491	0.000	258.900
x		0.204	13.780	13.020	1.170	0.023	2.035	0.000	263.500
σ		0.096	0.296	0.625	0.205	0.065	0.649	0.000	4.149
%RSD		46.860	2.147	4.797	17.500	286.600	31.880	0.000	1.575
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:59	70.578%	1.517	1.324	64.519%	-0.352	-0.394	-0.005	0.007
2	23:02:07	71.544%	1.446	1.416	66.062%	-0.341	-0.391	0.032	-0.009
3	23:02:14	73.787%	1.387	1.567	66.604%	-0.356	-0.373	0.013	-0.009
x		71.970%	1.450	1.436	65.728%	-0.350	-0.386	0.014	-0.004
σ		1.646%	0.065	0.123	1.082%	0.008	0.012	0.018	0.009
%RSD		2.287	4.484	8.547	1.646	2.200	3.033	134.000	234.400
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:59	67.537%	-0.848	-0.059	-0.230	461.800	474.500	75.854%	77.332%
2	23:02:07	68.274%	-0.896	-0.036	-0.162	468.900	483.100	76.768%	77.527%
3	23:02:14	69.892%	-0.644	-0.024	-0.155	473.700	473.100	77.033%	78.515%
x		68.568%	-0.796	-0.040	-0.183	468.200	476.900	76.552%	77.791%
σ		1.205%	0.134	0.018	0.041	5.998	5.415	0.619%	0.634%
%RSD		1.757	16.840	44.960	22.710	1.281	1.136	0.808	0.816
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:01:59	0.225	0.231	0.111	0.097	0.102	75.678%		
2	23:02:07	0.204	0.208	0.096	0.081	0.098	75.895%		
3	23:02:14	0.233	0.248	0.092	0.070	0.084	78.418%		
x		0.221	0.229	0.100	0.083	0.095	76.664%		
σ		0.015	0.020	0.010	0.013	0.009	1.523%		
%RSD		6.618	8.770	9.973	16.260	9.873	1.987		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:08	62.140%	0.121	3.804	3.334	0.000	3956.000	3645.000	3582.000
2	23:07:15	59.462%	0.077	3.154	3.195	0.000	4179.000	3861.000	3865.000
3	23:07:23	57.485%	0.125	3.407	3.248	0.000	4361.000	4010.000	4069.000
x		59.695%	0.108	3.455	3.259	0.000	4165.000	3839.000	3839.000
σ		2.336%	0.026	0.328	0.071	0.000	202.700	183.400	244.400
%RSD		3.914	24.510	9.490	2.166	0.000	4.866	4.777	6.368
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:08	49.570	4884.000	0.000	4884.000	10630.000	10790.000	64.724%	2.387
2	23:07:15	55.070	5068.000	0.000	5117.000	11030.000	10960.000	62.158%	2.894
3	23:07:23	55.600	5334.000	0.000	5205.000	11480.000	11630.000	59.109%	3.376
x		53.410	5095.000	0.000	5069.000	11050.000	11120.000	61.997%	2.886
σ		3.340	226.300	0.000	165.900	423.300	444.800	2.811%	0.495
%RSD		6.253	4.442	0.000	3.273	3.832	3.998	4.534	17.140
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:08	0.550	1.175	3056.000	899.100	853.600	14.900	1.359	0.817
2	23:07:15	0.968	1.209	3195.000	942.800	859.500	15.030	1.136	0.738
3	23:07:23	0.288	1.276	3419.000	980.800	935.500	15.980	1.553	0.920
x		0.602	1.220	3223.000	940.900	882.900	15.310	1.349	0.825
σ		0.343	0.051	183.200	40.890	45.670	0.589	0.209	0.091
%RSD		56.970	4.215	5.685	4.346	5.173	3.846	15.450	11.060
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:08	0.749	28.000	27.020	0.949	0.023	2.833	0.000	103.300
2	23:07:15	0.739	27.940	24.990	0.652	-0.053	2.738	0.000	103.800
3	23:07:23	1.161	28.780	27.070	0.545	0.140	0.977	0.000	105.400
x		0.883	28.240	26.360	0.715	0.037	2.183	0.000	104.200
σ		0.241	0.469	1.187	0.210	0.097	1.045	0.000	1.111
%RSD		27.280	1.662	4.503	29.280	264.700	47.880	0.000	1.066
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:08	71.657%	0.091	0.053	61.999%	-0.332	-0.333	0.271	0.197
2	23:07:15	73.304%	-0.086	0.039	60.230%	-0.308	-0.316	0.134	0.228
3	23:07:23	72.194%	-0.005	0.003	61.687%	-0.280	-0.328	0.214	0.208
x		72.385%	-0.000	0.032	61.305%	-0.307	-0.325	0.206	0.211
σ		0.840%	0.089	0.026	0.944%	0.026	0.009	0.069	0.016
%RSD		1.160	159500.000	82.050	1.540	8.506	2.716	33.440	7.457
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:07:08	63.097%	-0.687	-0.053	-0.038	362.500	361.800	72.208%	74.445%
2	23:07:15	63.736%	-0.718	0.070	-0.114	360.200	352.500	73.299%	74.283%
3	23:07:23	62.267%	-0.685	0.067	-0.078	363.800	359.900	71.456%	74.660%
x		63.033%	-0.697	0.028	-0.077	362.200	358.100	72.321%	74.463%
σ		0.737%	0.018	0.070	0.038	1.790	4.915	0.927%	0.190%
%RSD		1.169	2.634	250.200	49.210	0.494	1.373	1.282	0.255
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:07:08	0.064	0.061	0.148	0.130	0.129	63.771%		
2	23:07:15	0.069	0.052	0.123	0.099	0.131	63.135%		
3	23:07:23	0.027	0.057	0.079	0.122	0.133	61.095%		
x		0.053	0.057	0.117	0.117	0.131	62.667%		
σ		0.023	0.004	0.035	0.016	0.002	1.398%		
%RSD		42.540	7.661	30.190	13.620	1.631	2.231		

180-43643-J-8-A 5/8/2015 11:13:08 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:14	66.232%	-0.082	9.477	10.350	0.000	41930.000	17990.000	17790.000
2	23:12:22	61.558%	-0.062	9.016	10.750	0.000	43700.000	18060.000	18250.000
3	23:12:30	58.284%	-0.044	9.756	9.872	0.000	46080.000	19300.000	19630.000
x		62.025%	-0.063	9.417	10.320	0.000	43900.000	18450.000	18560.000
σ		3.995%	0.019	0.373	0.439	0.000	2084.000	740.200	957.800
%RSD		6.441	30.700	3.965	4.257	0.000	4.746	4.012	5.161
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:14	4.897	12250.000	0.000	7673.000	48820.000	51110.000	63.921%	2.389
2	23:12:22	4.968	13170.000	0.000	7796.000	50790.000	51820.000	62.342%	1.990
3	23:12:30	5.379	14460.000	0.000	7538.000	50420.000	53680.000	60.483%	1.960
x		5.082	13290.000	0.000	7669.000	50010.000	52200.000	62.249%	2.113
σ		0.260	1113.000	0.000	129.000	1048.000	1327.000	1.720%	0.240
%RSD		5.121	8.373	0.000	1.683	2.096	2.542	2.764	11.340
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:14	-1.322	1.628	1354.000	27710.000	26430.000	6.849	1.200	0.563
2	23:12:22	-0.872	1.735	1386.000	27440.000	26670.000	7.278	1.131	0.516
3	23:12:30	-0.953	1.692	1399.000	28960.000	27920.000	7.395	0.924	0.528
x		-1.049	1.685	1380.000	28030.000	27010.000	7.174	1.085	0.535
σ		0.240	0.054	23.620	811.500	798.300	0.287	0.144	0.024
%RSD		22.900	3.217	1.712	2.895	2.956	4.001	13.240	4.563
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:14	0.716	5.693	6.742	2.853	0.070	8.620	0.000	392.500
2	23:12:22	0.705	5.906	2.370	2.771	0.189	7.484	0.000	384.100
3	23:12:30	0.793	6.409	4.269	2.809	0.187	8.563	0.000	382.400
x		0.738	6.003	4.460	2.811	0.148	8.222	0.000	386.400
σ		0.048	0.367	2.192	0.041	0.068	0.640	0.000	5.437
%RSD		6.526	6.121	49.140	1.456	45.880	7.782	0.000	1.407
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:14	64.745%	19.000	18.730	57.689%	-0.335	-0.388	0.078	0.018
2	23:12:22	66.684%	18.230	18.660	59.387%	-0.323	-0.406	-0.005	-0.007
3	23:12:30	68.052%	19.280	19.640	60.283%	-0.348	-0.381	0.015	0.009
x		66.494%	18.840	19.010	59.120%	-0.335	-0.392	0.030	0.007
σ		1.661%	0.544	0.546	1.318%	0.012	0.013	0.043	0.013
%RSD		2.499	2.887	2.871	2.229	3.714	3.216	145.800	197.100
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:12:14	60.877%	-0.433	0.097	-0.074	1062.000	1064.000	70.663%	71.599%
2	23:12:22	61.696%	-0.428	0.068	-0.012	1061.000	1067.000	72.093%	73.382%
3	23:12:30	63.367%	-0.313	0.088	-0.040	1057.000	1060.000	74.094%	74.019%
x		61.980%	-0.392	0.084	-0.042	1060.000	1063.000	72.284%	73.000%
σ		1.269%	0.068	0.015	0.031	2.576	3.561	1.723%	1.254%
%RSD		2.047	17.440	17.480	73.210	0.243	0.335	2.384	1.718
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:12:14	-0.012	-0.011	0.062	0.083	0.067	57.004%		
2	23:12:22	-0.020	-0.015	0.053	0.111	0.085	59.900%		
3	23:12:30	-0.007	-0.011	0.029	0.055	0.050	61.587%		
x		-0.013	-0.012	0.048	0.083	0.067	59.497%		
σ		0.007	0.002	0.017	0.028	0.018	2.318%		
%RSD		51.000	17.300	35.900	33.520	25.980	3.896		

PB 180-139742/1-C 5/8/2015 11:18:13 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:17:22	103.727%	-0.074	0.131	0.140	0.000	8.654	4.102	4.330
2	23:17:30	99.102%	-0.069	0.158	0.058	0.000	11.310	4.040	4.159
3	23:17:37	97.731%	-0.082	0.083	-0.049	0.000	10.260	4.503	5.798
x		100.186%	-0.075	0.124	0.050	0.000	10.070	4.215	4.762
σ		3.142%	0.006	0.038	0.095	0.000	1.339	0.252	0.901
%RSD		3.136	8.443	30.680	189.800	0.000	13.290	5.967	18.920

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:17:22	0.798	-18.250	0.000	4.181	-1.966	11.710	95.686%	-0.061
2	23:17:30	0.666	-15.970	0.000	6.043	1.417	11.710	92.421%	-0.037
3	23:17:37	0.642	-16.340	0.000	5.393	3.554	12.330	91.592%	-0.099
x		0.702	-16.860	0.000	5.206	1.001	11.920	93.233%	-0.066
σ		0.084	1.225	0.000	0.945	2.783	0.359	2.164%	0.031
%RSD		11.990	7.266	0.000	18.160	277.900	3.008	2.322	47.730

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:17:22	0.024	0.011	0.363	20.400	13.660	-0.002	0.080	0.020
2	23:17:30	0.032	0.017	0.364	17.830	16.740	-0.002	0.019	-0.020
3	23:17:37	-0.015	0.018	0.324	14.350	14.120	0.004	0.101	-0.004
x		0.014	0.015	0.351	17.520	14.840	-0.000	0.066	-0.001
σ		0.026	0.004	0.023	3.034	1.663	0.003	0.043	0.020
%RSD		183.500	26.070	6.632	17.310	11.210	3883.000	64.180	1703.000

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:17:22	-0.016	0.819	0.615	-0.102	-0.053	-0.023	0.000	0.090
2	23:17:30	-0.014	0.392	0.701	-0.102	0.007	0.949	0.000	0.094
3	23:17:37	-0.064	0.729	0.559	-0.091	-0.053	0.873	0.000	0.078
x		-0.031	0.646	0.625	-0.098	-0.033	0.600	0.000	0.087
σ		0.028	0.225	0.072	0.007	0.034	0.541	0.000	0.009
%RSD		89.360	34.820	11.490	6.618	104.400	90.170	0.000	9.844

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:17:22	87.279%	-0.058	-0.011	85.803%	-0.345	-0.386	-0.005	-0.024
2	23:17:30	87.411%	-0.080	0.012	87.194%	-0.354	-0.401	-0.005	-0.006
3	23:17:37	89.198%	-0.071	-0.076	86.542%	-0.331	-0.398	-0.005	-0.024
x		87.963%	-0.069	-0.025	86.513%	-0.344	-0.395	-0.005	-0.018
σ		1.072%	0.011	0.046	0.696%	0.011	0.008	0.000	0.010
%RSD		1.219	15.900	183.600	0.805	3.341	2.027	0.098	57.060

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:17:22	84.300%	-1.425	-0.139	-0.254	0.304	0.185	85.564%	86.100%
2	23:17:30	86.389%	-1.430	-0.139	-0.270	0.299	0.360	86.291%	85.958%
3	23:17:37	87.420%	-1.425	-0.126	-0.239	0.295	0.267	87.515%	86.114%
x		86.036%	-1.427	-0.135	-0.254	0.299	0.271	86.457%	86.058%
σ		1.590%	0.003	0.007	0.016	0.005	0.088	0.986%	0.086%
%RSD		1.848	0.206	5.206	6.119	1.616	32.360	1.141	0.100

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:17:22	-0.028	-0.025	0.006	-0.009	-0.002	81.675%
2	23:17:30	-0.030	-0.027	-0.002	-0.010	0.004	83.113%
3	23:17:37	-0.025	-0.023	0.014	-0.020	0.006	84.653%
x		-0.028	-0.025	0.006	-0.013	0.003	83.147%
σ		0.003	0.002	0.008	0.006	0.004	1.489%
%RSD		8.990	6.116	131.400	48.950	162.500	1.791

MB 180-140167/1-A 5/8/2015 11:23:22 PM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:28	93.226%	-0.089	0.047	0.073	0.000	-1.879	0.451	0.648
2	23:22:36	94.489%	-0.074	0.101	0.048	0.000	-1.894	0.938	0.770
3	23:22:44	97.715%	-0.066	-0.032	-0.254	0.000	-0.728	1.281	1.667
x		95.143%	-0.076	0.038	-0.044	0.000	-1.500	0.890	1.029
σ		2.315%	0.012	0.067	0.182	0.000	0.669	0.418	0.556
%RSD		2.433	15.210	174.500	410.200	0.000	44.580	46.900	54.100

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:28	0.275	-20.630	0.000	2.732	3.085	5.628	88.647%	-0.054
2	23:22:36	0.241	-19.890	0.000	4.195	2.629	6.228	85.459%	-0.096
3	23:22:44	0.246	-18.860	0.000	4.867	2.244	7.257	87.555%	-0.053
x		0.254	-19.790	0.000	3.931	2.652	6.371	87.220%	-0.068
σ		0.018	0.886	0.000	1.092	0.421	0.824	1.620%	0.024
%RSD		7.077	4.476	0.000	27.780	15.870	12.930	1.858	36.000

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:28	0.138	0.038	0.086	1.339	3.931	-0.004	0.032	-0.015
2	23:22:36	-0.100	0.026	0.105	1.555	1.109	-0.004	0.073	0.045
3	23:22:44	-0.067	0.021	0.086	1.996	1.002	0.000	0.080	-0.027
x		-0.010	0.028	0.092	1.630	2.014	-0.002	0.061	0.001
σ		0.129	0.009	0.011	0.335	1.661	0.002	0.026	0.039
%RSD		1302.000	30.110	11.860	20.580	82.480	94.170	42.220	3009.000

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:28	-0.051	0.865	0.921	-0.125	0.009	1.247	0.000	0.009
2	23:22:36	-0.024	0.609	0.756	-0.101	-0.053	0.655	0.000	0.013
3	23:22:44	0.052	0.776	0.667	-0.083	-0.053	0.294	0.000	0.032
x		-0.008	0.750	0.781	-0.103	-0.032	0.732	0.000	0.018
σ		0.053	0.130	0.129	0.021	0.036	0.481	0.000	0.012
%RSD		684.900	17.320	16.460	20.430	111.900	65.750	0.000	66.750

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:28	83.757%	-0.162	-0.097	80.288%	-0.345	-0.400	-0.005	-0.018
2	23:22:36	84.626%	-0.162	-0.124	80.421%	-0.354	-0.397	-0.005	-0.011
3	23:22:44	84.909%	-0.140	-0.077	80.249%	-0.339	-0.394	-0.005	-0.011
x		84.431%	-0.155	-0.100	80.319%	-0.346	-0.397	-0.005	-0.013
σ		0.601%	0.013	0.024	0.090%	0.008	0.003	0.000	0.004
%RSD		0.711	8.194	23.750	0.113	2.220	0.783	1.084	27.400

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:28	81.452%	-1.360	-0.119	-0.253	0.017	0.004	83.980%	85.300%
2	23:22:36	80.151%	-1.372	-0.118	-0.253	-0.020	-0.019	83.012%	83.499%
3	23:22:44	82.063%	-1.411	-0.132	-0.228	0.017	0.004	83.067%	83.122%
x		81.222%	-1.381	-0.123	-0.245	0.004	-0.004	83.353%	83.974%
σ		0.976%	0.027	0.008	0.014	0.021	0.013	0.544%	1.164%
%RSD		1.202	1.928	6.295	5.798	505.700	374.900	0.653	1.387

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:22:28	-0.030	-0.022	-0.004	-0.005	0.001	78.967%
2	23:22:36	-0.030	-0.028	-0.018	-0.015	-0.002	78.126%
3	23:22:44	-0.030	-0.026	0.005	-0.022	-0.003	74.233%
x		-0.030	-0.025	-0.006	-0.014	-0.001	77.109%
σ		0.000	0.003	0.011	0.009	0.002	2.526%
%RSD		0.000	11.260	200.400	63.410	155.700	3.275

CCV 1558997 5/8/2015 11:28:27 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:35	98.065%	108.600	95.310	95.280	0.000	46690.000	45160.000	45320.000
2	23:27:42	95.948%	108.400	95.860	97.420	0.000	47830.000	47010.000	46800.000
3	23:27:50	88.357%	115.200	108.200	104.900	0.000	52420.000	50460.000	50040.000
x		94.124%	110.737%	99.787%	99.208%	0.000	97.960%	95.090%	94.772%
σ		5.105%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		5.423	3.479	7.299	5.103	0.000	6.194	5.655	5.097
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:35	454.600	5297.000	0.000	52190.000	49000.000	48190.000	96.350%	97.090
2	23:27:42	463.000	5597.000	0.000	52330.000	49420.000	50830.000	93.552%	101.400
3	23:27:50	522.800	6066.000	0.000	53800.000	52780.000	51330.000	90.269%	103.500
x		96.025%	113.068%	0.000	105.543%	100.800%	100.233%	93.390%	100.693%
σ		n/a	n/a	0.000	n/a	n/a	n/a	3.044%	n/a
%RSD		7.746	6.861	0.000	1.697	4.117	3.367	3.259	3.265
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:35	87.420	91.240	486.900	22480.000	22030.000	93.810	96.600	98.110
2	23:27:42	94.100	94.140	508.900	22930.000	22850.000	94.730	98.190	97.790
3	23:27:50	95.950	96.680	532.400	23530.000	23000.000	95.640	100.800	99.170
x		92.490%	94.020%	101.872%	91.908%	90.502%	94.727%	98.543%	98.355%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		4.851	2.899	4.466	2.297	2.306	0.969	2.172	0.733
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:35	101.300	102.600	97.680	102.900	99.450	106.800	0.000	96.050
2	23:27:42	100.600	101.800	104.200	105.600	101.700	113.200	0.000	96.760
3	23:27:50	99.430	103.100	102.100	103.800	104.900	106.300	0.000	96.300
x		100.447%	102.478%	101.310%	104.072%	102.023%	108.769%	0.000	96.369%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		0.940	0.658	3.270	1.312	2.684	3.509	0.000	0.377
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:35	83.166%	105.300	106.200	71.775%	102.800	103.600	102.400	104.300
2	23:27:42	85.535%	103.500	104.200	72.875%	102.400	104.300	103.200	104.800
3	23:27:50	86.898%	106.300	105.100	73.848%	101.500	103.200	104.600	105.100
x		85.200%	105.020%	105.149%	72.833%	102.251%	103.683%	103.420%	104.706%
σ		1.888%	n/a	n/a	1.038%	n/a	n/a	n/a	n/a
%RSD		2.216	1.329	0.918	1.425	0.635	0.526	1.077	0.384
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:27:35	73.833%	96.760	101.600	101.700	103.000	103.500	75.012%	75.134%
2	23:27:42	74.863%	100.700	102.900	105.200	103.000	106.900	78.062%	78.035%
3	23:27:50	77.226%	100.500	102.400	101.400	103.100	101.900	79.511%	78.340%
x		75.307%	99.313%	102.271%	102.764%	103.029%	104.102%	77.529%	77.170%
σ		1.740%	n/a	n/a	n/a	n/a	n/a	2.297%	1.769%
%RSD		2.310	2.232	0.643	2.078	0.082	2.417	2.963	2.293
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:27:35	101.800	100.000	101.400	102.100	102.000	54.431%		
2	23:27:42	103.200	102.500	103.400	103.100	102.600	55.418%		
3	23:27:50	99.810	100.600	101.200	103.200	101.300	58.727%		
x		101.613%	101.037%	101.981%	102.825%	101.986%	56.192%		
σ		n/a	n/a	n/a	n/a	n/a	2.251%		
%RSD		1.700	1.251	1.180	0.607	0.651	4.005		

CCB11 5/8/2015 11:37:34 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:41	108.413%	-0.048	0.381	0.148	0.000	5.829	7.270	6.658
2	23:36:49	105.450%	-0.044	0.053	0.028	0.000	6.342	6.064	6.297
3	23:36:56	108.635%	-0.022	0.060	0.052	0.000	6.930	6.770	7.232
x		107.499%	-0.038	0.164	0.076	0.000	6.367	6.701	6.729
σ		1.778%	0.014	0.187	0.063	0.000	0.551	0.606	0.472
%RSD		1.654	36.070	113.900	83.230	0.000	8.654	9.046	7.009
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:41	1.127	-17.750	0.000	10.820	19.940	18.080	104.308%	0.006
2	23:36:49	0.984	-18.690	0.000	11.480	9.578	16.920	103.457%	-0.011
3	23:36:56	1.103	-18.100	0.000	13.230	15.110	17.520	99.486%	0.072
x		1.071	-18.180	0.000	11.840	14.870	17.510	102.417%	0.022
σ		0.077	0.477	0.000	1.247	5.184	0.579	2.574%	0.044
%RSD		7.156	2.625	0.000	10.530	34.850	3.307	2.513	194.800
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:41	0.007	0.009	0.143	9.976	8.193	0.014	0.052	-0.013
2	23:36:49	0.021	0.017	0.118	8.919	10.380	0.021	0.101	0.078
3	23:36:56	0.030	0.016	0.118	8.958	8.547	0.013	0.113	0.036
x		0.019	0.014	0.126	9.285	9.041	0.016	0.089	0.034
σ		0.011	0.005	0.015	0.600	1.176	0.004	0.033	0.045
%RSD		58.530	32.180	11.610	6.456	13.000	26.140	36.680	134.400
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:41	0.048	1.001	1.008	-0.003	0.002	1.118	0.000	0.043
2	23:36:49	-0.012	0.917	0.963	-0.067	-0.026	1.046	0.000	0.021
3	23:36:56	0.036	1.236	1.241	-0.019	0.002	0.225	0.000	0.048
x		0.024	1.052	1.071	-0.030	-0.007	0.796	0.000	0.037
σ		0.032	0.166	0.149	0.033	0.016	0.496	0.000	0.014
%RSD		132.600	15.740	13.960	110.900	215.600	62.330	0.000	37.690
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:41	93.964%	0.217	0.227	92.386%	-0.330	-0.379	0.022	-0.001
2	23:36:49	95.741%	0.028	0.095	92.390%	-0.291	-0.366	-0.005	0.053
3	23:36:56	96.210%	0.144	0.214	91.924%	-0.312	-0.393	0.009	-0.007
x		95.305%	0.130	0.179	92.233%	-0.311	-0.380	0.009	0.015
σ		1.185%	0.095	0.073	0.268%	0.020	0.014	0.014	0.033
%RSD		1.243	73.440	40.650	0.290	6.398	3.582	151.800	224.700
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:41	90.977%	-1.010	-0.044	-0.157	0.013	0.045	89.139%	89.501%
2	23:36:49	93.228%	-1.068	-0.064	-0.174	0.013	0.129	89.364%	89.053%
3	23:36:56	92.228%	-1.106	-0.081	-0.203	0.181	0.066	89.588%	89.864%
x		92.144%	-1.061	-0.063	-0.178	0.069	0.080	89.364%	89.473%
σ		1.128%	0.048	0.018	0.023	0.097	0.044	0.225%	0.406%
%RSD		1.224	4.562	28.880	12.990	140.100	54.590	0.251	0.454
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:36:41	0.032	0.036	0.024	-0.012	0.018	91.880%		
2	23:36:49	0.053	0.052	0.005	-0.009	0.016	91.866%		
3	23:36:56	0.028	0.060	0.008	0.020	0.016	91.497%		
x		0.038	0.049	0.012	-0.000	0.017	91.748%		
σ		0.014	0.012	0.010	0.018	0.001	0.218%		
%RSD		35.940	24.400	78.050	40530.000	4.770	0.237		

CRI 1554040 5/8/2015 11:47:50 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:47:00	98.321%	1.076	20.080	20.240	0.000	464.900	466.000	464.300
2	23:47:07	100.537%	1.041	20.100	20.820	0.000	463.500	457.600	458.400
3	23:47:15	105.254%	0.983	20.750	18.890	0.000	469.600	455.500	467.400
x		101.371%	103.357%	406.149%	399.690%	0.000	582.485%	459.730%	463.350%
σ		3.540%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		3.493	4.554	1.878	4.941	0.000	0.678	1.210	0.986
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:47:00	29.870	503.800	0.000	510.200	455.100	464.500	103.337%	4.684
2	23:47:07	30.050	498.400	0.000	556.600	443.900	488.000	102.447%	4.726
3	23:47:15	30.360	501.400	0.000	543.400	454.700	498.100	99.897%	4.985
x		100.325%	100.240%	0.000	536.731%	451.235%	483.546%	101.894%	95.970%
σ		n/a	n/a	0.000	n/a	n/a	n/a	1.786%	n/a
%RSD		0.826	0.546	0.000	4.449	1.402	3.565	1.752	3.399
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:47:00	0.873	1.836	4.738	44.200	39.570	0.457	0.977	2.017
2	23:47:07	0.734	1.766	4.912	46.690	44.160	0.478	1.016	2.010
3	23:47:15	0.817	1.817	4.947	46.440	46.270	0.429	0.979	1.886
x		80.801%	90.314%	97.308%	91.550%	86.662%	90.964%	99.063%	98.541%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		8.624	2.026	2.293	2.998	7.910	5.401	2.214	3.740
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:47:00	2.171	7.058	6.509	0.739	4.700	5.528	0.000	4.247
2	23:47:07	2.035	6.167	6.941	0.827	4.518	4.116	0.000	4.049
3	23:47:15	1.869	6.225	7.480	0.812	4.482	4.895	0.000	4.078
x		101.258%	129.667%	139.537%	79.266%	91.338%	96.918%	0.000	82.494%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		7.475	7.686	6.974	5.900	2.559	14.590	0.000	2.594
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:47:00	105.990%	4.081	4.036	83.436%	0.866	0.749	1.380	1.245
2	23:47:07	105.740%	4.734	4.613	84.372%	0.754	0.831	1.254	1.195
3	23:47:15	107.829%	4.291	4.348	84.558%	0.856	0.851	0.934	1.285
x		106.520%	87.368%	86.645%	84.122%	82.508%	81.051%	118.939%	124.168%
σ		1.141%	n/a	n/a	0.602%	n/a	n/a	n/a	n/a
%RSD		1.071	7.636	6.666	0.715	7.507	6.654	19.330	3.610
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:47:00	76.152%	3.545	2.248	1.887	10.560	11.180	84.099%	84.882%
2	23:47:07	78.499%	3.605	2.036	2.200	11.470	10.600	84.160%	85.554%
3	23:47:15	78.177%	3.376	1.894	1.856	11.030	11.240	86.469%	86.974%
x		77.609%	70.172%	102.971%	99.047%	110.202%	110.073%	84.909%	85.803%
σ		1.273%	n/a	n/a	n/a	n/a	n/a	1.351%	1.068%
%RSD		1.640	3.384	8.644	9.619	4.142	3.206	1.591	1.245
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:47:00	0.955	0.905	0.895	1.019	0.925	74.497%		
2	23:47:07	1.003	0.843	0.822	1.012	0.938	76.723%		
3	23:47:15	0.881	0.881	0.959	1.055	0.978	79.312%		
x		94.645%	87.623%	89.201%	102.860%	94.686%	76.844%		
σ		n/a	n/a	n/a	n/a	n/a	2.410%		
%RSD		6.482	3.575	7.699	2.278	2.903	3.136		

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:06	57.128%	44.360	885.200	859.400	0.000	52850.000	51480.000	52520.000
2	23:52:14	56.099%	47.550	850.800	862.600	0.000	56430.000	53800.000	53850.000
3	23:52:21	57.192%	43.610	748.000	773.300	0.000	53720.000	51810.000	51900.000
x		56.807%	45.170	828.000	831.800	0.000	54330.000	52360.000	52750.000
σ		0.614%	2.095	71.360	50.650	0.000	1870.000	1254.000	995.300
%RSD		1.080	4.638	8.618	6.089	0.000	3.442	2.395	1.887
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:06	1984.000	11130.000	0.000	49390.000	46690.000	47190.000	61.789%	965.400
2	23:52:14	2047.000	11950.000	0.000	50960.000	48200.000	48820.000	59.120%	1008.000
3	23:52:21	2041.000	11420.000	0.000	52030.000	49380.000	48620.000	59.681%	967.600
x		2024.000	11500.000	0.000	50800.000	48090.000	48210.000	60.197%	980.300
σ		34.750	413.600	0.000	1327.000	1346.000	885.800	1.407%	23.840
%RSD		1.717	3.597	0.000	2.613	2.798	1.837	2.338	2.432
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:06	487.900	196.300	525.900	1055.000	1128.000	508.700	491.200	250.300
2	23:52:14	519.900	206.900	551.900	1091.000	1135.000	522.900	511.600	258.000
3	23:52:21	500.600	202.900	548.100	1093.000	1187.000	512.900	513.100	249.100
x		502.800	202.000	542.000	1080.000	1150.000	514.800	505.300	252.400
σ		16.110	5.362	14.000	21.200	32.170	7.292	12.240	4.825
%RSD		3.204	2.654	2.584	1.964	2.798	1.416	2.422	1.911
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:06	251.600	496.300	485.600	40.750	10.130	10.960	0.000	980.600
2	23:52:14	257.300	516.100	499.200	40.380	8.936	10.470	0.000	964.200
3	23:52:21	257.600	502.000	502.400	42.310	10.040	8.446	0.000	960.000
x		255.500	504.800	495.700	41.150	9.701	9.957	0.000	968.300
σ		3.386	10.240	8.904	1.025	0.664	1.331	0.000	10.860
%RSD		1.325	2.028	1.796	2.490	6.846	13.370	0.000	1.121
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:06	65.741%	1100.000	1112.000	60.718%	52.170	51.600	52.140	96.160
2	23:52:14	67.746%	1080.000	1093.000	62.076%	52.170	51.530	52.140	95.620
3	23:52:21	67.715%	1092.000	1109.000	61.204%	51.810	50.570	53.410	96.950
x		67.067%	1091.000	1105.000	61.333%	52.050	51.230	52.560	96.250
σ		1.149%	9.998	10.670	0.688%	0.204	0.574	0.731	0.666
%RSD		1.713	0.917	0.966	1.122	0.391	1.121	1.391	0.692
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:52:06	63.867%	2123.000	516.600	515.600	1953.000	1944.000	72.820%	74.133%
2	23:52:14	64.269%	2138.000	511.400	514.200	1943.000	1983.000	73.724%	74.617%
3	23:52:21	66.117%	2070.000	508.400	502.400	1923.000	1939.000	74.404%	76.237%
x		64.751%	2111.000	512.100	510.700	1939.000	1955.000	73.650%	74.996%
σ		1.200%	35.400	4.124	7.253	15.350	24.130	0.795%	1.102%
%RSD		1.853	1.677	0.805	1.420	0.791	1.234	1.079	1.470
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	23:52:06	50.640	49.760	20.680	20.400	20.380	69.983%		
2	23:52:14	49.330	50.530	20.480	20.130	19.950	71.232%		
3	23:52:21	49.570	49.790	20.400	20.320	19.970	71.642%		
x		49.850	50.030	20.520	20.280	20.100	70.952%		
σ		0.698	0.439	0.142	0.140	0.243	0.864%		
%RSD		1.401	0.878	0.692	0.690	1.206	1.218		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:57:16	43.410%	-0.042	56.480	54.380	0.000	896800.000	90990.000	92280.000
2	23:57:23	40.386%	-0.041	59.190	55.810	0.000	975700.000	99720.000	99110.000
3	23:57:31	41.767%	-0.013	58.930	55.700	0.000	968300.000	98010.000	97100.000
x		41.854%	-0.032	58.200	55.300	0.000	946900.000	96240.000	96170.000
σ		1.514%	0.016	1.495	0.795	0.000	43560.000	4623.000	3511.000
%RSD		3.618	51.060	2.569	1.437	0.000	4.601	4.803	3.651

Run	Time	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:57:16	7.056	10800.000	0.000	7831.000	610100.000	571700.000	51.508%	2.849
2	23:57:23	8.221	11990.000	0.000	8115.000	636200.000	611900.000	48.388%	3.002
3	23:57:31	7.998	11710.000	0.000	8215.000	659200.000	627400.000	48.884%	3.718
x		7.758	11500.000	0.000	8054.000	635100.000	603700.000	49.593%	3.190
σ		0.619	619.200	0.000	199.500	24540.000	28760.000	1.677%	0.464
%RSD		7.972	5.385	0.000	2.477	3.864	4.765	3.381	14.550

Run	Time	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni	63Cu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:57:16	0.600	1.266	1135.000	186.100	2315.000	1.500	2.771	0.196
2	23:57:23	-0.428	1.135	1203.000	198.200	2338.000	1.626	2.817	0.159
3	23:57:31	0.794	1.165	1203.000	200.200	2283.000	1.611	2.290	0.157
x		0.322	1.189	1180.000	194.800	2312.000	1.579	2.626	0.171
σ		0.657	0.068	39.020	7.644	27.480	0.069	0.292	0.022
%RSD		204.000	5.746	3.306	3.923	1.189	4.351	11.120	12.950

Run	Time	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr	88Sr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:57:16	0.866	1.280	0.570	21.680	0.145	6.901	0.000	3895.000
2	23:57:23	0.811	1.686	1.136	23.280	0.247	4.215	0.000	3861.000
3	23:57:31	0.762	1.585	0.769	22.710	0.295	5.932	0.000	3908.000
x		0.813	1.517	0.825	22.550	0.229	5.683	0.000	3888.000
σ		0.052	0.211	0.287	0.810	0.077	1.360	0.000	24.180
%RSD		6.444	13.920	34.800	3.592	33.440	23.940	0.000	0.622

Run	Time	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd	114Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:57:16	53.849%	5.639	5.051	43.014%	-0.349	-0.382	0.234	0.427
2	23:57:23	54.469%	4.483	4.536	43.006%	-0.316	-0.365	0.208	0.202
3	23:57:31	54.501%	3.517	3.405	43.693%	-0.338	-0.388	0.152	0.314
x		54.273%	4.546	4.331	43.238%	-0.334	-0.378	0.198	0.314
σ		0.368%	1.062	0.842	0.394%	0.017	0.012	0.042	0.113
%RSD		0.677	23.370	19.440	0.911	5.070	3.104	21.210	35.820

Run	Time	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb	165Ho
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:57:16	48.472%	4.737	0.157	0.109	274.800	272.500	59.551%	60.358%
2	23:57:23	48.390%	4.094	0.137	0.030	271.400	262.200	58.224%	60.060%
3	23:57:31	49.281%	2.515	0.100	0.064	269.100	269.700	59.203%	60.019%
x		48.715%	3.782	0.131	0.068	271.800	268.100	58.993%	60.146%
σ		0.492%	1.143	0.029	0.040	2.871	5.338	0.688%	0.185%
%RSD		1.011	30.240	22.150	58.950	1.056	1.991	1.167	0.307

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:57:16	0.130	0.068	0.092	0.062	0.070	41.892%
2	23:57:23	0.053	0.064	0.087	0.077	0.088	41.292%
3	23:57:31	0.081	0.060	0.053	0.117	0.099	41.974%
x		0.088	0.064	0.077	0.086	0.086	41.720%
σ		0.039	0.004	0.021	0.028	0.014	0.372%
%RSD		43.980	6.365	27.550	33.020	16.560	0.892

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:24	51.067%	-0.050	51.230	49.190	0.000	804500.000	82130.000	83390.000
2	00:02:31	48.341%	-0.032	57.230	53.370	0.000	855300.000	88810.000	88590.000
3	00:02:39	50.126%	-0.061	51.640	50.030	0.000	864500.000	88770.000	88020.000
x		49.845%	-0.048	53.370	50.860	0.000	841500.000	86570.000	86670.000
σ		1.385%	0.015	3.355	2.211	0.000	32300.000	3845.000	2852.000
%RSD		2.778	30.420	6.286	4.348	0.000	3.838	4.441	3.291
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:24	2.121	9916.000	0.000	7736.000	623200.000	580300.000	53.790%	1.434
2	00:02:31	2.267	10710.000	0.000	7777.000	603200.000	600900.000	52.382%	0.961
3	00:02:39	2.417	10520.000	0.000	7988.000	662700.000	618600.000	50.256%	2.195
x		2.269	10390.000	0.000	7834.000	629700.000	599900.000	52.143%	1.530
σ		0.148	416.700	0.000	135.300	30280.000	19150.000	1.779%	0.623
%RSD		6.524	4.013	0.000	1.727	4.808	3.191	3.411	40.700
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:24	0.552	1.032	1119.000	169.500	2298.000	1.515	2.491	0.401
2	00:02:31	0.627	1.120	1137.000	174.500	2256.000	1.659	2.754	0.553
3	00:02:39	-1.304	1.152	1189.000	181.900	2212.000	1.436	3.162	0.451
x		-0.042	1.102	1148.000	175.300	2255.000	1.537	2.802	0.468
σ		1.094	0.062	36.010	6.248	42.870	0.113	0.338	0.078
%RSD		2630.000	5.636	3.136	3.564	1.901	7.364	12.070	16.580
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:24	1.210	1.950	1.644	22.350	-0.003	7.122	0.000	3848.000
2	00:02:31	1.139	1.858	1.522	22.530	0.190	5.988	0.000	3784.000
3	00:02:39	1.329	1.765	0.709	21.530	0.293	7.351	0.000	3843.000
x		1.226	1.858	1.292	22.130	0.160	6.820	0.000	3825.000
σ		0.096	0.093	0.508	0.533	0.150	0.730	0.000	35.230
%RSD		7.857	4.988	39.330	2.409	93.950	10.700	0.000	0.921
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:24	52.910%	1.569	1.964	42.161%	-0.332	-0.410	0.077	0.063
2	00:02:31	54.842%	1.543	1.384	43.770%	-0.333	-0.382	0.100	0.124
3	00:02:39	54.417%	1.583	1.723	43.933%	-0.328	-0.399	0.021	0.111
x		54.056%	1.565	1.690	43.288%	-0.331	-0.397	0.066	0.099
σ		1.015%	0.021	0.291	0.980%	0.003	0.014	0.040	0.032
%RSD		1.878	1.326	17.220	2.263	0.829	3.470	61.330	32.090
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:02:24	47.645%	-0.228	-0.068	-0.104	267.500	265.100	58.098%	58.751%
2	00:02:31	49.213%	-0.273	0.025	-0.043	265.400	269.200	59.765%	61.139%
3	00:02:39	50.154%	-0.338	-0.019	-0.060	268.500	268.900	60.540%	61.165%
x		49.004%	-0.280	-0.021	-0.069	267.100	267.700	59.468%	60.352%
σ		1.267%	0.055	0.047	0.032	1.613	2.308	1.248%	1.386%
%RSD		2.586	19.730	225.900	46.220	0.604	0.862	2.098	2.297
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:02:24	0.015	0.012	0.022	0.030	0.025	40.541%		
2	00:02:31	0.023	0.016	0.040	0.014	0.040	42.024%		
3	00:02:39	0.002	-0.005	0.012	-0.015	0.027	44.272%		
x		0.013	0.008	0.025	0.010	0.031	42.279%		
σ		0.011	0.011	0.014	0.022	0.008	1.878%		
%RSD		79.940	143.100	57.220	230.700	27.650	4.442		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:07:33	52.539%	-0.027	57.850	59.750	0.000	321000.000	37180.000	38110.000
2	00:07:41	55.073%	-0.055	54.250	52.920	0.000	315400.000	36110.000	36270.000
3	00:07:48	49.934%	-0.052	59.450	60.780	0.000	343800.000	40190.000	40020.000
x		52.515%	-0.045	57.180	57.810	0.000	326800.000	37830.000	38140.000
σ		2.570%	0.015	2.662	4.273	0.000	15040.000	2117.000	1874.000
%RSD		4.893	34.180	4.656	7.391	0.000	4.603	5.597	4.915
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:07:33	9.466	13050.000	0.000	4492.000	189600.000	188400.000	57.500%	1.533
2	00:07:41	9.189	13030.000	0.000	4591.000	196600.000	192700.000	55.963%	1.648
3	00:07:48	10.240	14060.000	0.000	4607.000	198100.000	198600.000	54.818%	1.404
x		9.631	13380.000	0.000	4563.000	194800.000	193200.000	56.094%	1.528
σ		0.543	587.700	0.000	62.380	4523.000	5108.000	1.346%	0.122
%RSD		5.638	4.393	0.000	1.367	2.322	2.643	2.399	7.975
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:07:33	16.610	1.042	4.241	16.430	718.500	0.217	1.196	0.389
2	00:07:41	14.900	1.077	4.400	16.440	679.600	0.228	1.235	0.403
3	00:07:48	18.000	1.082	4.351	16.510	702.200	0.202	1.402	0.308
x		16.500	1.067	4.331	16.460	700.100	0.216	1.278	0.366
σ		1.555	0.022	0.082	0.040	19.580	0.013	0.110	0.051
%RSD		9.421	2.042	1.891	0.244	2.796	5.968	8.575	14.010
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:07:33	0.444	2.162	2.270	6.359	4.841	9.605	0.000	1446.000
2	00:07:41	0.709	1.980	3.366	6.011	7.368	10.170	0.000	1427.000
3	00:07:48	0.544	2.121	2.526	6.125	4.471	8.944	0.000	1460.000
x		0.566	2.088	2.721	6.165	5.560	9.575	0.000	1444.000
σ		0.134	0.095	0.573	0.178	1.577	0.615	0.000	16.560
%RSD		23.640	4.568	21.070	2.878	28.360	6.428	0.000	1.146
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:07:33	60.543%	0.687	0.588	52.952%	-0.360	-0.392	0.061	0.012
2	00:07:41	62.469%	0.491	0.568	54.226%	-0.333	-0.392	0.017	0.020
3	00:07:48	61.923%	0.523	0.693	54.588%	-0.329	-0.392	0.017	0.037
x		61.645%	0.567	0.616	53.922%	-0.341	-0.392	0.032	0.023
σ		0.992%	0.105	0.067	0.859%	0.017	0.000	0.025	0.013
%RSD		1.610	18.500	10.880	1.593	4.907	0.055	80.470	57.840
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:07:33	58.443%	-1.046	0.018	-0.088	108.300	106.400	66.110%	67.257%
2	00:07:41	59.344%	-0.988	0.006	-0.113	106.200	109.100	68.223%	69.793%
3	00:07:48	59.096%	-0.917	0.007	-0.046	106.600	110.100	68.713%	68.952%
x		58.961%	-0.984	0.010	-0.082	107.100	108.500	67.682%	68.667%
σ		0.466%	0.064	0.007	0.034	1.135	1.905	1.383%	1.292%
%RSD		0.790	6.525	65.050	41.540	1.061	1.755	2.044	1.881
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:07:33	-0.009	0.008	0.017	-0.000	0.030	59.745%		
2	00:07:41	-0.017	0.004	0.047	0.037	0.046	61.186%		
3	00:07:48	-0.006	-0.012	0.057	0.052	0.059	60.691%		
x		-0.011	0.000	0.040	0.030	0.045	60.541%		
σ		0.005	0.011	0.021	0.027	0.014	0.732%		
%RSD		49.710	6061.000	52.270	90.230	31.840	1.210		

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Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	68.613%	-0.090	12.280	12.290	0.000	57290.000	6976.000	7121.000
2	00:12:48	70.765%	-0.054	12.450	13.270	0.000	58710.000	7144.000	7006.000
3	00:12:56	73.179%	-0.104	11.850	11.460	0.000	58900.000	7279.000	7123.000
x		70.852%	-0.083	12.190	12.340	0.000	58300.000	7133.000	7083.000
σ		2.284%	0.025	0.312	0.904	0.000	878.900	152.000	66.700
%RSD		3.224	30.690	2.560	7.326	0.000	1.508	2.130	0.942
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	2.951	2491.000	0.000	941.200	39400.000	38050.000	70.386%	0.214
2	00:12:48	2.879	2530.000	0.000	946.900	39660.000	39100.000	72.375%	0.151
3	00:12:56	3.959	2563.000	0.000	938.100	39030.000	39300.000	71.325%	0.507
x		3.263	2528.000	0.000	942.100	39360.000	38820.000	71.362%	0.291
σ		0.604	35.960	0.000	4.434	317.900	671.200	0.995%	0.190
%RSD		18.510	1.423	0.000	0.471	0.808	1.729	1.394	65.190
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	2.973	0.213	0.906	0.203	149.700	0.042	0.335	0.057
2	00:12:48	2.812	0.203	0.823	0.098	151.800	0.046	0.303	0.077
3	00:12:56	2.931	0.204	0.835	0.158	144.600	0.059	0.217	0.007
x		2.905	0.207	0.855	0.153	148.700	0.049	0.285	0.047
σ		0.084	0.005	0.045	0.053	3.681	0.009	0.061	0.036
%RSD		2.874	2.496	5.222	34.440	2.475	17.860	21.330	76.730
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	0.168	1.217	0.873	0.534	1.137	1.711	0.000	276.300
2	00:12:48	0.100	1.228	0.918	0.635	1.260	0.701	0.000	275.400
3	00:12:56	0.127	1.156	0.827	0.717	1.377	1.930	0.000	284.800
x		0.132	1.200	0.873	0.629	1.258	1.448	0.000	278.800
σ		0.034	0.039	0.046	0.091	0.120	0.656	0.000	5.197
%RSD		26.080	3.238	5.259	14.510	9.548	45.300	0.000	1.864
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	71.057%	0.061	0.058	63.901%	-0.352	-0.398	-0.005	0.007
2	00:12:48	72.173%	0.007	0.227	62.756%	-0.306	-0.402	-0.005	-0.024
3	00:12:56	69.615%	0.080	0.105	62.568%	-0.333	-0.394	0.073	-0.008
x		70.948%	0.050	0.130	63.075%	-0.330	-0.398	0.021	-0.008
σ		1.282%	0.038	0.087	0.722%	0.023	0.004	0.045	0.016
%RSD		1.808	76.590	67.030	1.144	7.088	1.017	210.300	192.300
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:12:40	65.535%	-1.100	-0.072	-0.229	20.990	22.130	73.500%	73.908%
2	00:12:48	65.753%	-1.162	-0.072	-0.209	21.100	20.540	73.743%	73.034%
3	00:12:56	64.344%	-1.048	-0.095	-0.176	22.780	22.870	71.494%	73.314%
x		65.210%	-1.103	-0.080	-0.205	21.620	21.850	72.912%	73.419%
σ		0.759%	0.058	0.013	0.027	1.005	1.193	1.235%	0.447%
%RSD		1.163	5.217	16.680	12.970	4.647	5.462	1.693	0.608
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:12:40	-0.024	-0.017	0.024	-0.001	0.024	61.868%		
2	00:12:48	-0.024	-0.019	0.016	-0.010	0.013	61.006%		
3	00:12:56	-0.020	-0.017	0.031	0.020	0.034	58.735%		
x		-0.022	-0.018	0.024	0.003	0.024	60.536%		
σ		0.002	0.001	0.008	0.016	0.011	1.618%		
%RSD		9.802	7.536	32.950	547.200	45.320	2.673		

180-43436-F-2-B MS 5/9/2015 12:18:42 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:48	59.545%	43.790	799.300	849.700	0.000	322300.000	77810.000	79980.000
2	00:17:56	51.546%	48.820	989.200	942.000	0.000	383200.000	87360.000	87200.000
3	00:18:04	54.505%	46.540	867.300	892.600	0.000	351200.000	87290.000	85750.000
x		55.199%	46.380	885.300	894.800	0.000	352200.000	84150.000	84310.000
σ		4.045%	2.519	96.210	46.200	0.000	30460.000	5490.000	3819.000
%RSD		7.327	5.432	10.870	5.163	0.000	8.647	6.524	4.530
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:48	1838.000	22280.000	0.000	53170.000	229000.000	237900.000	57.783%	961.800
2	00:17:56	2029.000	24680.000	0.000	56320.000	248900.000	250100.000	54.887%	992.100
3	00:18:04	1989.000	23640.000	0.000	56430.000	244900.000	244700.000	55.775%	979.400
x		1952.000	23530.000	0.000	55310.000	240900.000	244300.000	56.148%	977.800
σ		100.800	1200.000	0.000	1850.000	10550.000	6119.000	1.484%	15.240
%RSD		5.166	5.099	0.000	3.345	4.378	2.505	2.643	1.559
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:48	505.500	191.100	517.800	989.000	1771.000	464.300	444.400	224.400
2	00:17:56	532.900	198.100	542.700	1060.000	1829.000	492.100	469.500	226.400
3	00:18:04	526.100	196.200	549.700	1032.000	1806.000	497.200	473.700	236.200
x		521.500	195.200	536.800	1027.000	1802.000	484.600	462.600	229.000
σ		14.270	3.635	16.750	35.930	29.650	17.700	15.850	6.289
%RSD		2.736	1.863	3.120	3.498	1.645	3.653	3.428	2.746
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:48	228.300	424.900	427.500	45.370	14.670	15.010	0.000	2444.000
2	00:17:56	231.800	439.500	440.200	46.490	15.680	14.040	0.000	2486.000
3	00:18:04	232.500	439.400	438.300	46.560	14.870	20.510	0.000	2534.000
x		230.900	434.600	435.400	46.140	15.070	16.520	0.000	2488.000
σ		2.287	8.359	6.844	0.668	0.535	3.492	0.000	45.200
%RSD		0.991	1.923	1.572	1.447	3.552	21.140	0.000	1.817
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:48	57.792%	1108.000	1133.000	47.031%	49.640	48.680	50.270	96.120
2	00:17:56	57.871%	1116.000	1149.000	48.332%	49.380	49.320	51.330	94.850
3	00:18:04	57.223%	1127.000	1165.000	48.461%	50.160	50.400	48.590	94.940
x		57.629%	1117.000	1149.000	47.942%	49.730	49.470	50.060	95.300
σ		0.354%	9.568	15.970	0.791%	0.399	0.871	1.383	0.706
%RSD		0.613	0.857	1.389	1.650	0.802	1.760	2.763	0.741
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:17:48	50.171%	2129.000	526.600	516.400	2111.000	2088.000	61.029%	61.932%
2	00:17:56	51.572%	2120.000	516.500	510.000	2093.000	2126.000	61.743%	63.471%
3	00:18:04	52.301%	2123.000	520.000	519.100	2106.000	2109.000	63.610%	63.953%
x		51.348%	2124.000	521.000	515.200	2103.000	2108.000	62.128%	63.119%
σ		1.082%	4.526	5.121	4.690	9.321	18.940	1.333%	1.055%
%RSD		2.108	0.213	0.983	0.910	0.443	0.899	2.145	1.672
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:17:48	53.870	53.800	21.770	21.850	21.880	44.524%		
2	00:17:56	52.900	52.780	21.860	21.590	21.580	46.932%		
3	00:18:04	53.850	53.390	21.430	22.790	21.920	48.366%		
x		53.540	53.320	21.690	22.080	21.800	46.608%		
σ		0.555	0.512	0.228	0.628	0.184	1.942%		
%RSD		1.036	0.961	1.053	2.843	0.844	4.166		

180-43436-F-2-C MSD 5/9/2015 12:23:50 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:56	54.681%	44.850	916.000	833.700	0.000	338600.000	81730.000	82660.000
2	00:23:04	51.780%	45.540	882.100	914.800	0.000	361000.000	86240.000	85420.000
3	00:23:12	47.234%	49.870	994.700	973.700	0.000	368100.000	89800.000	87700.000
x		51.232%	46.750	931.000	907.400	0.000	355900.000	85920.000	85260.000
σ		3.754%	2.724	57.730	70.320	0.000	15380.000	4043.000	2521.000
%RSD		7.328	5.825	6.202	7.749	0.000	4.320	4.705	2.957
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:56	1941.000	22910.000	0.000	55100.000	234500.000	241200.000	54.344%	972.000
2	00:23:04	1988.000	23880.000	0.000	56690.000	243100.000	242000.000	53.676%	1007.000
3	00:23:12	2074.000	24570.000	0.000	53970.000	239100.000	240700.000	55.472%	983.300
x		2001.000	23790.000	0.000	55260.000	238900.000	241300.000	54.497%	987.400
σ		67.540	833.700	0.000	1368.000	4334.000	693.900	0.908%	17.880
%RSD		3.376	3.505	0.000	2.476	1.814	0.288	1.667	1.811
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:56	510.400	196.100	533.000	1047.000	1799.000	481.200	474.100	231.800
2	00:23:04	523.600	194.900	545.000	1049.000	1745.000	502.500	482.600	235.800
3	00:23:12	512.300	195.500	542.800	1024.000	1770.000	487.600	457.200	229.800
x		515.400	195.500	540.300	1040.000	1771.000	490.400	471.300	232.500
σ		7.156	0.594	6.377	13.820	27.020	10.920	12.930	3.050
%RSD		1.388	0.304	1.180	1.329	1.526	2.226	2.744	1.312
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:56	234.400	432.900	441.100	46.840	14.460	16.440	0.000	2454.000
2	00:23:04	238.200	446.100	431.100	45.720	15.920	15.000	0.000	2483.000
3	00:23:12	233.400	429.700	418.500	44.880	13.990	14.120	0.000	2484.000
x		235.300	436.200	430.200	45.810	14.790	15.190	0.000	2474.000
σ		2.490	8.676	11.290	0.984	1.004	1.170	0.000	17.090
%RSD		1.058	1.989	2.624	2.147	6.791	7.707	0.000	0.691
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:56	57.176%	1126.000	1148.000	49.943%	48.270	48.370	49.740	91.580
2	00:23:04	57.860%	1124.000	1148.000	50.373%	49.090	49.720	50.400	93.600
3	00:23:12	58.353%	1111.000	1140.000	51.221%	47.490	49.630	49.190	93.150
x		57.796%	1120.000	1145.000	50.512%	48.280	49.240	49.770	92.780
σ		0.591%	8.082	4.564	0.650%	0.800	0.758	0.608	1.064
%RSD		1.023	0.721	0.398	1.288	1.657	1.539	1.222	1.147
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:22:56	54.843%	2069.000	492.800	500.200	2042.000	2106.000	63.852%	64.979%
2	00:23:04	55.187%	2076.000	499.000	494.500	2045.000	2083.000	65.283%	66.295%
3	00:23:12	55.347%	2097.000	505.200	498.500	2099.000	2080.000	64.684%	66.272%
x		55.126%	2081.000	499.000	497.700	2062.000	2090.000	64.606%	65.849%
σ		0.258%	14.860	6.213	2.917	32.030	14.300	0.719%	0.754%
%RSD		0.467	0.714	1.245	0.586	1.553	0.684	1.112	1.144
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:22:56	52.820	52.950	22.090	20.640	21.270	55.807%		
2	00:23:04	52.820	52.380	21.100	21.290	21.130	56.508%		
3	00:23:12	52.450	52.420	21.270	21.400	21.330	57.314%		
x		52.700	52.580	21.490	21.110	21.240	56.543%		
σ		0.213	0.318	0.529	0.408	0.107	0.754%		
%RSD		0.404	0.604	2.463	1.931	0.503	1.333		

CCV 1558997 5/9/2015 12:28:52 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:02	90.713%	94.130	83.740	88.030	0.000	47310.000	44620.000	44950.000
2	00:28:09	86.142%	103.400	94.280	97.040	0.000	48550.000	46360.000	45850.000
3	00:28:17	83.760%	108.100	96.510	96.950	0.000	50190.000	48300.000	49070.000
x		86.872%	101.856%	91.509%	94.006%	0.000	97.367%	92.855%	93.242%
σ		3.533%	n/a	n/a	n/a	0.000	n/a	n/a	n/a
%RSD		4.067	6.961	7.451	5.506	0.000	2.968	3.961	4.648
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:02	441.300	5229.000	0.000	48560.000	47260.000	45990.000	87.780%	95.580
2	00:28:09	465.400	5519.000	0.000	52030.000	48910.000	46930.000	87.191%	98.950
3	00:28:17	492.100	5659.000	0.000	52310.000	49460.000	48210.000	86.201%	98.400
x		93.253%	109.376%	0.000	101.931%	97.088%	94.091%	87.057%	97.643%
σ		n/a	n/a	0.000	n/a	n/a	n/a	0.798%	n/a
%RSD		5.455	4.009	0.000	4.092	2.355	2.372	0.917	1.852
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:02	89.240	92.750	475.700	22290.000	22480.000	92.540	94.240	96.540
2	00:28:09	90.770	93.540	497.400	22480.000	22430.000	94.360	94.480	97.140
3	00:28:17	92.430	92.570	498.100	22600.000	22730.000	91.970	92.930	96.700
x		90.812%	92.954%	98.078%	89.827%	90.190%	92.957%	93.883%	96.795%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.753	0.553	2.592	0.699	0.715	1.343	0.888	0.319
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:02	97.820	101.300	98.140	100.400	101.600	97.070	0.000	97.990
2	00:28:09	102.900	102.400	99.570	103.500	100.800	105.600	0.000	97.570
3	00:28:17	96.920	99.390	102.800	103.500	103.000	111.900	0.000	97.790
x		99.220%	101.017%	100.176%	102.441%	101.799%	104.853%	0.000	97.782%
σ		n/a	n/a	n/a	n/a	n/a	n/a	0.000	n/a
%RSD		3.260	1.503	2.397	1.757	1.056	7.093	0.000	0.217
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:02	79.046%	106.300	106.200	69.831%	104.200	103.100	104.600	108.700
2	00:28:09	79.001%	110.200	109.500	70.412%	101.500	103.600	103.900	105.300
3	00:28:17	80.029%	110.300	107.600	69.492%	101.900	103.900	102.500	107.100
x		79.359%	108.930%	107.768%	69.912%	102.511%	103.515%	103.659%	107.033%
σ		0.581%	n/a	n/a	0.465%	n/a	n/a	n/a	n/a
%RSD		0.733	2.095	1.525	0.665	1.438	0.420	1.018	1.561
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:28:02	72.490%	106.000	104.300	103.000	102.100	102.100	77.889%	78.701%
2	00:28:09	73.830%	103.400	101.500	102.500	104.100	105.600	78.217%	78.488%
3	00:28:17	71.831%	105.400	106.600	105.400	102.400	107.100	77.415%	78.680%
x		72.717%	104.960%	104.135%	103.653%	102.877%	104.920%	77.840%	78.623%
σ		1.019%	n/a	n/a	n/a	n/a	n/a	0.403%	0.118%
%RSD		1.401	1.313	2.421	1.513	1.028	2.411	0.518	0.149
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:28:02	102.400	103.900	103.200	104.400	102.800	64.112%		
2	00:28:09	102.300	101.700	104.900	101.800	102.700	63.308%		
3	00:28:17	104.300	103.300	103.800	104.600	104.000	60.286%		
x		102.995%	102.943%	103.969%	103.596%	103.169%	62.569%		
σ		n/a	n/a	n/a	n/a	n/a	2.017%		
%RSD		1.081	1.084	0.794	1.482	0.666	3.224		

CCB12 5/9/2015 12:37:54 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

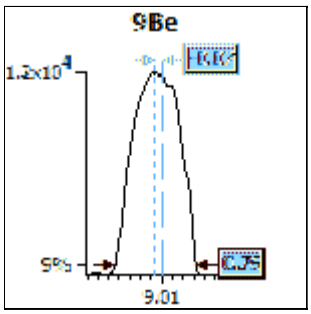
Run	Time	6Li	9Be	10B	11B	13C	23Na	25Mg	26Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:04	109.436%	-0.058	1.286	0.979	0.000	9.258	8.685	6.397
2	00:37:11	99.737%	-0.065	1.133	1.191	0.000	9.897	8.028	8.844
3	00:37:19	101.930%	-0.037	1.167	0.942	0.000	9.909	8.051	7.613
x		103.701%	-0.054	1.195	1.037	0.000	9.688	8.255	7.618
σ		5.087%	0.015	0.080	0.134	0.000	0.373	0.373	1.224
%RSD		4.905	27.580	6.712	12.940	0.000	3.846	4.516	16.060
Run	**Time**	**27Al**	**28Si**	**37Cl**	**39K**	**43Ca**	**44Ca**	**45Sc**	**47Ti**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:04	1.240	-18.100	0.000	15.440	3.644	20.000	91.110%	0.260
2	00:37:11	1.227	-18.980	0.000	13.430	16.540	20.150	94.728%	0.245
3	00:37:19	1.262	-17.320	0.000	13.110	7.998	19.690	93.986%	0.248
x		1.243	-18.130	0.000	13.990	9.394	19.940	93.274%	0.251
σ		0.018	0.830	0.000	1.259	6.561	0.234	1.911%	0.008
%RSD		1.419	4.578	0.000	9.001	69.840	1.175	2.049	3.233
Run	**Time**	**51V**	**52Cr**	**55Mn**	**56Fe**	**57Fe**	**59Co**	**60Ni**	**63Cu**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:04	0.026	0.008	0.095	9.220	7.224	0.032	0.057	0.070
2	00:37:11	0.035	0.020	0.110	7.751	6.265	0.039	0.063	-0.005
3	00:37:19	0.066	0.027	0.092	7.300	7.250	0.018	0.036	0.021
x		0.042	0.018	0.099	8.090	6.913	0.030	0.052	0.029
σ		0.021	0.010	0.010	1.004	0.561	0.010	0.015	0.038
%RSD		49.730	53.600	9.629	12.410	8.122	35.050	27.870	132.100
Run	**Time**	**65Cu**	**66Zn**	**68Zn**	**75As**	**78Se**	**82Se**	**83Kr**	**88Sr**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:04	0.030	1.172	1.067	-0.066	0.008	-1.489	0.000	0.043
2	00:37:11	-0.047	1.001	0.891	-0.061	0.067	1.156	0.000	0.039
3	00:37:19	-0.024	1.110	1.238	-0.074	0.036	-0.107	0.000	0.038
x		-0.014	1.094	1.065	-0.067	0.037	-0.147	0.000	0.040
σ		0.040	0.086	0.174	0.006	0.029	1.323	0.000	0.003
%RSD		292.500	7.879	16.300	9.268	79.800	902.300	0.000	6.832
Run	**Time**	**89Y**	**95Mo**	**98Mo**	**103Rh**	**107Ag**	**109Ag**	**111Cd**	**114Cd**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:04	85.252%	0.646	0.574	79.352%	-0.307	-0.378	0.042	0.021
2	00:37:11	86.093%	0.418	0.405	80.289%	-0.326	-0.360	0.056	-0.005
3	00:37:19	88.144%	0.307	0.416	82.589%	-0.324	-0.355	0.040	0.025
x		86.496%	0.457	0.465	80.743%	-0.319	-0.364	0.046	0.013
σ		1.488%	0.173	0.094	1.666%	0.011	0.012	0.009	0.016
%RSD		1.720	37.880	20.310	2.063	3.290	3.318	19.160	121.400
Run	**Time**	**115In**	**118Sn**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:37:04	80.423%	-0.426	-0.005	-0.160	0.055	0.076	81.505%	80.807%
2	00:37:11	82.544%	-0.578	-0.021	-0.138	0.091	0.075	81.908%	82.520%
3	00:37:19	84.360%	-0.632	-0.062	-0.124	0.053	0.050	82.618%	82.625%
x		82.442%	-0.545	-0.029	-0.141	0.066	0.067	82.011%	81.984%
σ		1.971%	0.107	0.029	0.018	0.022	0.015	0.564%	1.021%
%RSD		2.390	19.620	99.870	12.900	32.390	21.790	0.687	1.245
Run	**Time**	**203Tl**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**		
		ppb	ppb	ppb	ppb	ppb	ppb		
1	00:37:04	0.028	0.071	0.029	0.023	0.028	76.378%		
2	00:37:11	0.029	0.050	0.039	0.015	0.029	77.885%		
3	00:37:19	0.020	0.050	0.013	0.017	0.023	80.623%		
x		0.025	0.057	0.027	0.018	0.027	78.295%		
σ		0.005	0.012	0.013	0.004	0.003	2.152%		
%RSD		20.360	21.620	48.770	24.800	12.910	2.748		

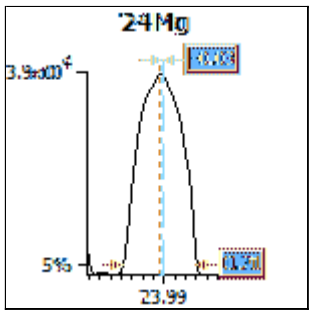
Performance Report

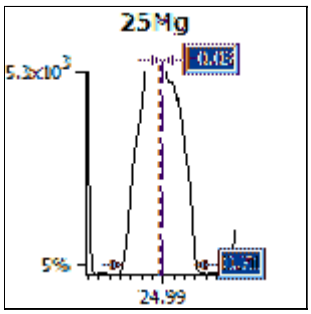
Sample details
Sample name : ITUNE
Acquired at : 5/8/2015 9:09:30 AM
Report name : EPA ILM05.2 / 6020A 2.1 [8/10/2014 1:06:06 PM]

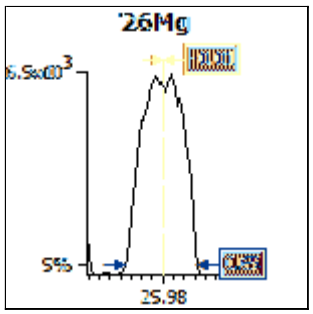
Mass Calibration verification

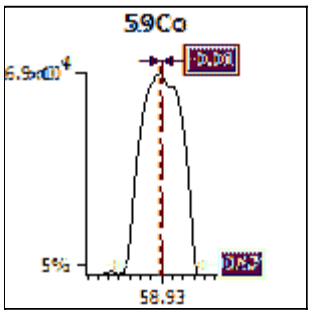
Acquisition parameters
Sweeps : 50
Dwell : 1.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 5% of the peak maximum

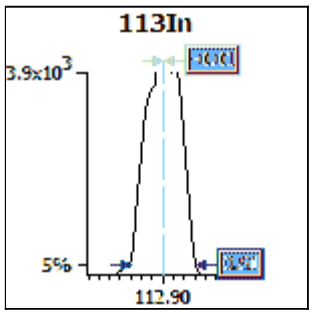


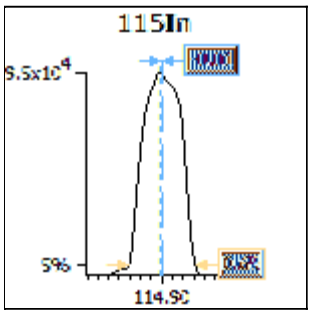


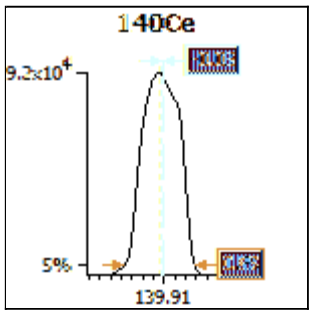


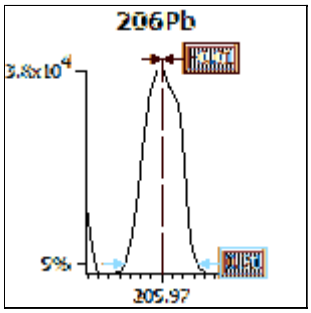


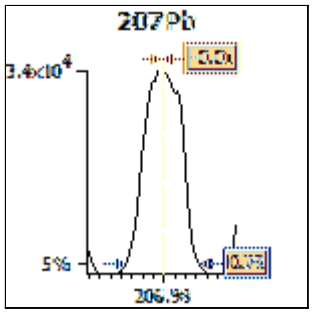


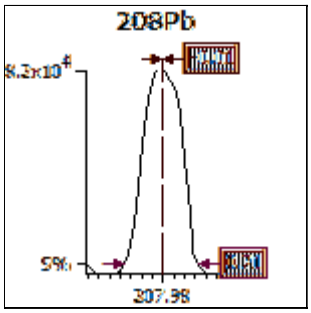












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.90	0.40	0.10	0.76	-0.07
24Mg	0.90	0.40	0.10	0.71	-0.03
25Mg	0.90	0.40	0.10	0.71	-0.03
26Mg	0.90	0.40	0.10	0.69	-0.01
59Co	0.90	0.40	0.10	0.67	-0.01
113In	0.90	0.40	0.10	0.61	-0.01
115In	0.90	0.40	0.10	0.65	-0.01
140Ce	0.90	0.40	0.10	0.69	-0.03
206Pb	0.90	0.40	0.10	0.71	-0.01
207Pb	0.90	0.40	0.10	0.73	-0.01
208Pb	0.90	0.40	0.10	0.71	-0.01

Sample details
Sample name : ITUNE
Acquired at : 5/8/2015 9:09:30 AM
Report name : EPA ILM05.2 / 6020A 2.1 [8/10/2014 1:06:06 PM]

Tune conditions

Major	
Extraction	-114
Lens 1	0.3
Focus	26.3
D1	-28.2
Pole Bias	-0.0
Hexapole Bias	-3.4
Nebuliser	1.05
Sampling Depth	200

Minor	
Lens 2	-35.3
Lens 3	-195.3
Forward power	1404
Horizontal	120
Vertical	352
D2	-121
DA	-80.0
Cool	14.0
Auxiliary	0.80

Global	
Standard resolution	n/a
High resolution	n/a
Analogue Detector	n/a
PC Detector	n/a

Add. Gases	
CCT1	0.00
CCT2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 180

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	113In	115In
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
	Countrate	-	>100	>500	>150	>150	>500	>500	>10000
1	9:10:18 AM	0	10314	34039	5331	6367	70140	4286	96297
2	9:11:29 AM	0	10378	34093	5251	6398	70252	4345	96544
3	9:12:42 AM	0	10357	34245	5238	6375	70506	4172	95031
4	9:13:54 AM	0	10672	34044	5409	6471	69993	4173	93369
5	9:15:06 AM	0	10655	34771	5369	6401	69622	4165	93011
x		0	10475	34238	5320	6402	70103	4228	94850
σ		0.06	173.37	308.86	73.97	41.26	327.63	82.41	1625.86
%RSD		71.261	1.655	0.902	1.390	0.644	0.467	1.949	1.714

Run	Time	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	5.0%	-	5.0%	5.0%	5.0%	-
	Countrate	>10000	-	>1000	>1000	>5000	-
1	9:10:18 AM	92522	1815	39154	36372	85474	0
2	9:11:29 AM	93018	1784	38782	35945	84233	0
3	9:12:42 AM	92230	1793	37490	34884	82056	0
4	9:13:54 AM	91622	1819	35725	33366	78233	0
5	9:15:06 AM	90286	1798	35498	32539	77131	0
x		91936	1802	37330	34621	81426	0
σ		1051.15	14.83	1687.64	1643.10	3650.64	0.04
%RSD		1.143	0.823	4.521	4.746	4.483	70.711

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0600
1	9:10:18 AM	0
2	9:11:29 AM	0
3	9:12:42 AM	0
4	9:13:54 AM	0
5	9:15:06 AM	0
x		0.0196
σ		0.00
%RSD		1.5493

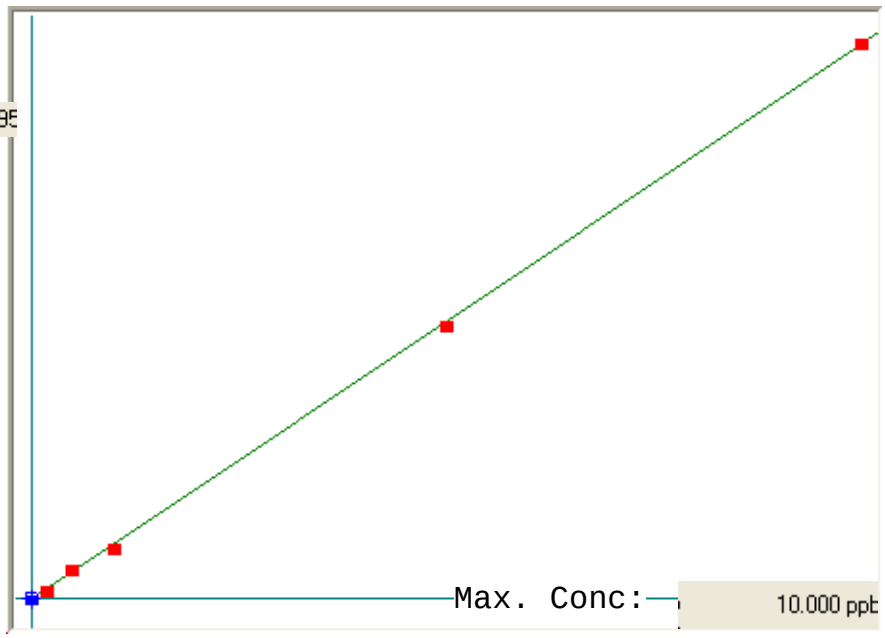
Result : The performance report passed.

METHG

Linear

μ Abs.:

44095



A= 0.0000e+000

B= 2.2681e-004

C= 2.2353e-002

Rho= 0.9999500

Accept= Accepted

Accepted Date=

05/11/15 16:57

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.035	0.035	55	0.000	55				
.2ppb	0.200	0.193	-0.007	754	0.0 %	754				
.5ppb	0.500	0.542	0.042	2291	0.0 %	2291				
1.0ppb	1.000	0.948	-0.052	4083	0.0 %	4083				
5.0ppb	5.000	4.958	-0.042	21762	0.0 %	21762				
10.0ppb	10.000	10.023	0.023	44095	0.0 %	44095				

Rack	Cup	Sample ID	Extended ID	Wt.	Vol.	Cup Action
1	1	MB 180-141		1.0000	1.0000	
1	2	LCS 180-141		1.0000	1.0000	
1	3	LCSD 180-1		1.0000	1.0000	
1	4	A180-42168-		1.0000	1.0000	
1	5	180-42168-A		1.0000	1.0000	
1	6	180-42168-A		1.0000	1.0000	
1	7	180-42168-A		1.0000	1.0000	
1	8	180-43723-I-		1.0000	1.0000	
1	9	180-43723-J-		1.0000	1.0000	
1	10	180-42168-B		1.0000	1.0000	
1	11	180-42168-B		1.0000	1.0000	
1	12	180-42168-B		1.0000	1.0000	
1	13	180-42168-B		1.0000	1.0000	
1	14	180-43723-J-		1.0000	1.0000	
1	15	180-43723-I-		1.0000	1.0000	
1	16	180-43843-G		1.0000	1.0000	
1	17	180-43752-F		1.0000	1.0000	
1	18	180-43841-C		1.0000	1.0000	
1	19	180-43762-R		1.0000	1.0000	
1	20	180-43762-Q		1.0000	1.0000	
1	21	MB 180-141		1.0000	1.0000	
1	22	LCS 180-141		1.0000	1.0000	
1	23	180-43250-G		1.0000	1.0000	
1	24	180-43250-G		1.0000	1.0000	
1	25	180-43250-G		1.0000	1.0000	
1	26	180-43250-G		1.0000	1.0000	
1	27	180-43250-G		1.0000	1.0000	
1	28	180-43250-G		1.0000	1.0000	
1	29	180-43250-G		1.0000	1.0000	
1	30	180-43250-G		1.0000	1.0000	
1	31	180-43250-G		1.0000	1.0000	
1	32	180-43250-G		1.0000	1.0000	
1	33	180-43250-G		1.0000	1.0000	
1	34	180-43250-G		1.0000	1.0000	
1	35	180-43844-B		1.0000	1.0000	
1	36	180-43844-D		1.0000	1.0000	
1	37	180-43643-J-		1.0000	1.0000	
1	38	180-43643-J-		1.0000	1.0000	
1	39	180-43702-H		1.0000	1.0000	
1	40	180-43702-H		1.0000	1.0000	
1	41	180-43702-H		1.0000	1.0000	

Rack	Cup	Sample ID	Extended ID	Wt.	Vol.	Cup Action
1	42	180-43702-H		1.0000	1.0000	
1	43	180-43636-M		1.0000	1.0000	
1	44	MB 180-140		1.0000	1.0000	
1	45	LCS 180-140		1.0000	1.0000	
1	46	180-43458-D		1.0000	1.0000	
1	47	180-43458-K		1.0000	1.0000	
1	48	180-43458-D		1.0000	1.0000	
1	49	180-43458-D		1.0000	1.0000	
1	50	180-43458-D		1.0000	1.0000	
1	51	180-43458-D		1.0000	1.0000	
1	52	180-43458-B		1.0000	1.0000	
1	53	180-43458-D		1.0000	1.0000	
1	54	180-43458-D		1.0000	1.0000	
1	55	180-43458-D		1.0000	1.0000	
1	56	MB 180-141		1.0000	1.0000	
1	57	LCS 180-141		1.0000	1.0000	
1	58	LCSD 180-1		1.0000	1.0000	
1	59	180-43769-A		1.0000	1.0000	
1	60	180-43793-A		1.0000	1.0000	
2	1	180-43798-D		1.0000	1.0000	
2	2	180-43810-D		1.0000	1.0000	
2	3	180-43815-A		1.0000	1.0000	
2	4	MB 180-141		1.0000	1.0000	
2	5	LCS 180-141		1.0000	1.0000	
2	6	LCSD 180-1		1.0000	1.0000	
2	7	LB 180-1408		1.0000	1.0000	
2	8	180-43802-A		1.0000	1.0000	
2	9	180-43804-A		1.0000	1.0000	
2	10			1.0000	1.0000	
2	11			1.0000	1.0000	
2	12			1.0000	1.0000	
2	13			1.0000	1.0000	
2	14			1.0000	1.0000	
2	15			1.0000	1.0000	
2	16			1.0000	1.0000	
2	17			1.0000	1.0000	
2	18			1.0000	1.0000	
2	19			1.0000	1.0000	
2	20			1.0000	1.0000	
2	21			1.0000	1.0000	
2	22			1.0000	1.0000	

r50511D-raw

Method: METHG Operator: Admin Date of Analysis: 11 May 2015 16:43:58

Seq ID	Type	Sample ID	Extended ID	Date	Conc.	Units	Stnd Conc	µ Abs.	Method	Chapter
2385	Std	blank - 1		11 May 2015 16:45:41	-	ppb	0.0000	55	METHG	R50511D
2386	Std	.2ppb - 1		11 May 2015 16:47:34	-	ppb	0.2000	754	METHG	R50511D
2387	Std	.5ppb - 1		11 May 2015 16:49:27	-	ppb	0.5000	2291	METHG	R50511D
2388	Std	1.0ppb - 1		11 May 2015 16:51:20	-	ppb	1.0000	4083	METHG	R50511D
2389	Std	5.0ppb - 1		11 May 2015 16:53:15	-	ppb	5.0000	21762	METHG	R50511D
2390	Std	10.0ppb - 1		11 May 2015 16:55:10	-	ppb	10.0000	44095	METHG	R50511D
2391	CK STND	ICV - 1		11 May 2015 16:57:22	101.9% 2.5465	ppb	-	11129	METHG	R50511D
2392	CK STND	ICB - 1		11 May 2015 16:59:38	-0.0559	ppb	-	-345	METHG	R50511D
2393	CK STND	CRA - 1		11 May 2015 17:01:39	114.9% 0.2299	ppb	-	915	METHG	R50511D
2394	CK STND	CCV - 1		11 May 2015 17:03:32	96.6% 4.8286	ppb	-	21191	METHG	R50511D
2395	CK STND	CCB - 1		11 May 2015 17:05:26	-0.1047	ppb	-	-560	METHG	R50511D
2396	SMPL	MB 180-141139/1-A - 1		11 May 2015 17:07:35	0.0389	ppb	-	73	METHG	R50511D
2397	SMPL	LCS 180-141139/2-A - 1		11 May 2015 17:09:26	2.4006	ppb	-	10486	METHG	R50511D
2398	SMPL	LCSD 180-141139/3- - 1		11 May 2015 17:11:18	2.3789	ppb	-	10390	METHG	R50511D
2399	SMPL	A180-42168-A-16-A - 1		11 May 2015 17:13:22	-0.0298	ppb	-	-230	METHG	R50511D
2400	SMPL	180-42168-A-17-A - 1		11 May 2015 17:15:24	0.0219	ppb	-	-2	METHG	R50511D
2401	SMPL	180-42168-A-18-A - 1		11 May 2015 17:17:17	0.0468	ppb	-	108	METHG	R50511D
2402	SMPL	180-42168-A-19-A - 1		11 May 2015 17:19:09	0.0398	ppb	-	77	METHG	R50511D
2403	SMPL	180-43723-I-1-B - 1		11 May 2015 17:21:01	0.0382	ppb	-	70	METHG	R50511D
2404	SMPL	180-43723-J-2-B - 1		11 May 2015 17:22:53	0.0357	ppb	-	59	METHG	R50511D
2405	SMPL	180-42168-B-16-A - 1		11 May 2015 17:24:46	0.0251	ppb	-	12	METHG	R50511D
2406	CK STND	CCV - 1		11 May 2015 17:26:39	95.9% 4.7943	ppb	-	21040	METHG	R50511D
2407	CK STND	CCB - 1		11 May 2015 17:28:31	-0.0518	ppb	-	-327	METHG	R50511D
2408	SMPL	180-42168-B-17-A - 1		11 May 2015 17:30:43	0.0239	ppb	-	7	METHG	R50511D
2409	SMPL	180-42168-B-18-A - 1		11 May 2015 17:32:36	0.0174	ppb	-	-22	METHG	R50511D
2410	SMPL	180-42168-B-19-A - 1		11 May 2015 17:34:32	0.0128	ppb	-	-42	METHG	R50511D
2411	SMPL	180-43723-J-1-B - 1		11 May 2015 17:36:24	0.0405	ppb	-	80	METHG	R50511D
2412	SMPL	180-43723-I-2-B - 1		11 May 2015 17:38:22	0.0269	ppb	-	20	METHG	R50511D
2413	SMPL	180-43843-G-1-B - 1		11 May 2015 17:40:15	0.0425	ppb	-	89	METHG	R50511D
2414	SMPL	180-43752-F-1-B - 1		11 May 2015 17:42:09	0.0230	ppb	-	3	METHG	R50511D
2415	SMPL	180-43841-C-3-B - 1		11 May 2015 17:44:01	0.0677	ppb	-	200	METHG	R50511D
2416	SMPL	180-43762-R-1-A - 1		11 May 2015 17:45:55	0.0713	ppb	-	216	METHG	R50511D
2417	SMPL	180-43762-Q-1-B - 1		11 May 2015 17:47:47	-0.0282	ppb	-	-223	METHG	R50511D
2418	CK STND	CCV - 1		11 May 2015 17:49:42	93.8% 4.6877	ppb	-	20570	METHG	R50511D
2419	CK STND	CCB - 1		11 May 2015 17:51:35	-0.0523	ppb	-	-329	METHG	R50511D
2420	SMPL	MB 180-141138/1-A - 1		11 May 2015 17:53:47	0.0351	ppb	-	56	METHG	R50511D
2421	SMPL	LCS 180-141138/2-A - 1		11 May 2015 17:55:39	2.6349	ppb	-	11519	METHG	R50511D
2422	SMPL	180-43250-G-21-D - 1		11 May 2015 17:57:34	-0.0421	ppb	-	-284	METHG	R50511D
2423	SMPL	180-43250-G-21-E MS - 1		11 May 2015 17:59:39	1.0105	ppb	-	4357	METHG	R50511D
2424	SMPL	180-43250-G-21-F MSD - 1		11 May 2015 18:01:32	1.0010	ppb	-	4315	METHG	R50511D
2425	SMPL	180-43250-G-22-B - 1		11 May 2015 18:03:27	-0.0155	ppb	-	-167	METHG	R50511D
2426	SMPL	180-43250-G-23-B - 1		11 May 2015 18:05:22	0.0348	ppb	-	55	METHG	R50511D
2427	SMPL	180-43250-G-24-B - 1		11 May 2015 18:07:14	0.0405	ppb	-	80	METHG	R50511D
2428	SMPL	180-43250-G-25-B - 1		11 May 2015 18:09:06	0.0292	ppb	-	30	METHG	R50511D
2429	SMPL	180-43250-G-26-B - 1		11 May 2015 18:10:59	0.0317	ppb	-	41	METHG	R50511D
2430	CK STND	CCV - 1		11 May 2015 18:12:51	92.4% 4.6186	ppb	-	20265	METHG	R50511D
2431	CK STND	CCB - 1		11 May 2015 18:14:43	-0.1003	ppb	-	-541	METHG	R50511D
2432	SMPL	180-43250-G-27-B - 1		11 May 2015 18:16:53	0.0335	ppb	-	49	METHG	R50511D
2433	SMPL	180-43250-G-28-D - 1		11 May 2015 18:18:45	0.0382	ppb	-	70	METHG	R50511D
2434	SMPL	180-43250-G-29-B - 1		11 May 2015 18:20:37	0.0282	ppb	-	26	METHG	R50511D
2435	SMPL	180-43250-G-30-B - 1		11 May 2015 18:22:30	0.0321	ppb	-	43	METHG	R50511D
2436	SMPL	180-43844-B-1-D - 1		11 May 2015 18:24:25	0.0153	ppb	-	-31	METHG	R50511D
2437	SMPL	180-43844-D-2-B - 1		11 May 2015 18:26:20	0.0908	ppb	-	302	METHG	R50511D
2438	SMPL	180-43643-J-7-B - 1		11 May 2015 18:28:18	0.0419	ppb	-	86	METHG	R50511D
2439	SMPL	180-43643-J-8-B - 1		11 May 2015 18:30:10	0.0498	ppb	-	121	METHG	R50511D
2440	SMPL	180-43702-H-1-B - 1		11 May 2015 18:32:03	0.0124	ppb	-	-44	METHG	R50511D
2441	SMPL	180-43702-H-2-B - 1		11 May 2015 18:33:55	0.0741	ppb	-	228	METHG	R50511D

r50511D-raw

Method: METHG Operator: Admin Date of Analysis: 11 May 2015 16:43:58

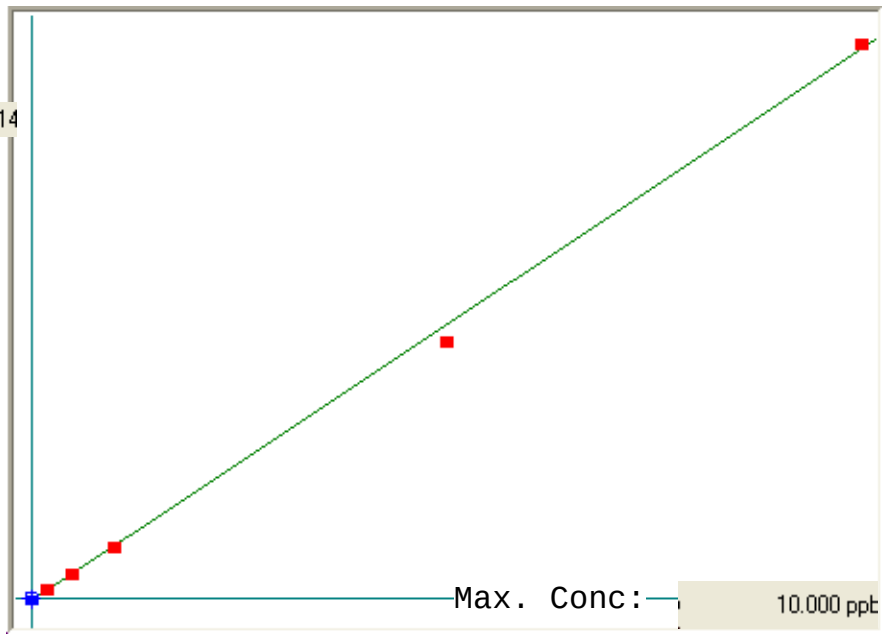
Seq ID	Type	Sample ID	Extended ID	Date	Conc.	Units	Stnd Conc	µ Abs.	Method	Chapter
2442	CK STND	CCV - 1		11 May 2015 18:35:47	92.2% 4.6093	ppb	-	20224	METHG	R50511D
2443	CK STND	CCB - 1		11 May 2015 18:37:40	-0.1135	ppb	-	-599	METHG	R50511D
2444	SMPL	180-43702-H-3-B - 1		11 May 2015 18:39:48	0.0271	ppb	-	21	METHG	R50511D
2445	SMPL	180-43702-H-4-B - 1		11 May 2015 18:41:42	0.0369	ppb	-	64	METHG	R50511D
2446	SMPL	180-43636-M-5-B - 1		11 May 2015 18:43:35	-0.0099	ppb	-	-142	METHG	R50511D
2447	SMPL	MB 180-140941/1-B - 1		11 May 2015 18:45:28	0.0473	ppb	-	110	METHG	R50511D
2448	SMPL	LCS 180-140941/2-B - 1		11 May 2015 18:47:20	2.4446	ppb	-	10680	METHG	R50511D
2449	SMPL	180-43458-D-5-G - 1		11 May 2015 18:49:16	-0.0600	ppb	-	-363	METHG	R50511D
2450	SMPL	180-43458-K-6-G - 1		11 May 2015 18:51:14	0.0634	ppb	-	181	METHG	R50511D
2451	SMPL	180-43458-D-7-R - 1		11 May 2015 18:53:08	0.0548	ppb	-	143	METHG	R50511D
2452	SMPL	180-43458-D-7-S MS - 1		11 May 2015 18:55:01	1.0255	ppb	-	4423	METHG	R50511D
2453	SMPL	180-43458-D-7-T MSD - 1		11 May 2015 18:56:53	0.9520	ppb	-	4099	METHG	R50511D
2454	CK STND	CCV - 1		11 May 2015 18:58:48	(L)89.1% 4.4539	ppb	-	19539	METHG	R50511D
2455	CK STND	CCB - 1		11 May 2015 19:00:43	-0.0790	ppb	-	-447	METHG	R50511D
2456	SMPL	180-43458-D-8-G - 1		11 May 2015 19:02:51	0.0691	ppb	-	206	METHG	R50511D
2457	SMPL	180-43458-B-9-G - 1		11 May 2015 19:04:46	0.0548	ppb	-	143	METHG	R50511D
2458	SMPL	180-43458-D-10-G - 1		11 May 2015 19:06:38	0.1194	ppb	-	428	METHG	R50511D
2459	SMPL	180-43458-D-11-G - 1		11 May 2015 19:08:32	0.0884	ppb	-	291	METHG	R50511D
2460	SMPL	180-43458-D-12-H - 1		11 May 2015 19:10:24	0.0069	ppb	-	-68	METHG	R50511D
2461	SMPL	MB 180-141184/1-A - 1		11 May 2015 19:12:23	0.0121	ppb	-	-45	METHG	R50511D
2462	SMPL	LCS 180-141184/2-A - 1		11 May 2015 19:14:16	2.0468	ppb	-	8926	METHG	R50511D
2463	SMPL	LCSD 180-141184/3-A - 1		11 May 2015 19:16:10	1.7440	ppb	-	7591	METHG	R50511D
2464	SMPL	180-43769-A-1-E - 1		11 May 2015 19:18:09	-0.0421	ppb	-	-284	METHG	R50511D
2465	SMPL	180-43793-A-1-C - 1		11 May 2015 19:20:07	0.0224	ppb	-	0	METHG	R50511D
2466	CK STND	CCV - 1		11 May 2015 19:22:03	(L)89.8% 4.4904	ppb	-	19700	METHG	R50511D
2467	CK STND	CCB - 1		11 May 2015 19:23:57	-0.1282	ppb	-	-664	METHG	R50511D
2468	SMPL	180-43798-D-1-E - 1		11 May 2015 19:26:10	0.0219	ppb	-	-2	METHG	R50511D
2469	SMPL	180-43810-D-1-D - 1		11 May 2015 19:28:03	0.0412	ppb	-	83	METHG	R50511D
2470	SMPL	180-43815-A-1-E - 1		11 May 2015 19:29:56	0.0400	ppb	-	78	METHG	R50511D
2471	SMPL	MB 180-141186/1-A - 1		11 May 2015 19:31:49	0.0301	ppb	-	34	METHG	R50511D
2472	SMPL	LCS 180-141186/2-A - 1		11 May 2015 19:33:44	2.6841	ppb	-	11736	METHG	R50511D
2473	SMPL	LCSD 180-141186/3-A - 1		11 May 2015 19:35:39	2.2875	ppb	-	9987	METHG	R50511D
2474	SMPL	LB 180-140885/3-C - 1		11 May 2015 19:37:39	-0.0176	ppb	-	-176	METHG	R50511D
2475	SMPL	180-43802-A-1-F - 1		11 May 2015 19:39:48	0.0228	ppb	-	2	METHG	R50511D
2476	SMPL	180-43804-A-1-I - 1		11 May 2015 19:41:41	0.0577	ppb	-	156	METHG	R50511D
2477	CK STND	CCV - 1		11 May 2015 19:43:33	91.4% 4.5709	ppb	-	20055	METHG	R50511D
2478	CK STND	CCB - 1		11 May 2015 19:45:27	-0.0507	ppb	-	-322	METHG	R50511D

METHG

Linear

μ Abs.:

43414



A= 0.0000e+000

B= 2.3172e-004

C= 5.5055e-002

Rho= 0.9994774

Accept=Accepted

Accepted Date=

05/12/15 07:29

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.055	0.055	0	0.000	0				
.2ppb	0.200	0.253	0.053	855	0.0 %	855				
.5ppb	0.500	0.527	0.027	2037	0.0 %	2037				
1.0ppb	1.000	1.002	0.002	4085	0.0 %	4085				
5.0ppb	5.000	4.748	-0.252	20252	0.0 %	20252				
10.0ppb	10.000	10.115	0.115	43414	0.0 %	43414				

Rack	Cup	Sample ID	Extended ID	Wt.	Vol.	Cup Action
1	1	180-43702-H		1.0000	1.0000	
1	2	180-43702-H		1.0000	1.0000	
1	3	180-43636-M		1.0000	1.0000	
1	4	MB 180-140		1.0000	1.0000	
1	5	LCS 180-140		1.0000	1.0000	
1	6	180-43458-D		1.0000	1.0000	
1	7	180-43458-K		1.0000	1.0000	
1	8	180-43458-D		1.0000	1.0000	
1	9	180-43458-D		1.0000	1.0000	
1	10	180-43458-D		1.0000	1.0000	
1	11	180-43458-D		1.0000	1.0000	
1	12	180-43458-B		1.0000	1.0000	
1	13	180-43458-D		1.0000	1.0000	
1	14	180-43458-D		1.0000	1.0000	
1	15	180-43458-D		1.0000	1.0000	
1	16	MB 180-141		1.0000	1.0000	
1	17	LCS 180-141		1.0000	1.0000	
1	18	LCSD 180-1		1.0000	1.0000	
1	19	180-43769-A		1.0000	1.0000	
1	20	180-43793-A		1.0000	1.0000	
1	21	180-43798-D		1.0000	1.0000	
1	22	180-43810-D		1.0000	1.0000	
1	23	180-43815-A		1.0000	1.0000	
1	24	MB 180-141		1.0000	1.0000	
1	25	LCS 180-141		1.0000	1.0000	
1	26	LCSD 180-1		1.0000	1.0000	
1	27	LB 180-1408		1.0000	1.0000	
1	28	180-43802-A		1.0000	1.0000	
1	29	180-43804-A		1.0000	1.0000	
1	30			1.0000	1.0000	
1	31			1.0000	1.0000	
1	32			1.0000	1.0000	
1	33			1.0000	1.0000	
1	34			1.0000	1.0000	
1	35			1.0000	1.0000	
1	36			1.0000	1.0000	
1	37			1.0000	1.0000	
1	38			1.0000	1.0000	
1	39			1.0000	1.0000	
1	40			1.0000	1.0000	
1	41			1.0000	1.0000	

R50512A-raw

Method: METHG Operator: Admin Date of Analysis: 12 May 2015 07:17:10

Seq ID	Type	Sample ID	Extended ID	Date	Conc.	Units	Stnd Conc	µ Abs.	Method	Chapter
2480	Std	blank - 1		12 May 2015 07:18:18	-	ppb	0.0000	0	METHG	R50512A
2481	Std	.2ppb - 1		12 May 2015 07:20:11	-	ppb	0.2000	855	METHG	R50512A
2482	Std	.5ppb - 1		12 May 2015 07:22:06	-	ppb	0.5000	2037	METHG	R50512A
2483	Std	1.0ppb - 1		12 May 2015 07:24:00	-	ppb	1.0000	4085	METHG	R50512A
2484	Std	5.0ppb - 1		12 May 2015 07:25:55	-	ppb	5.0000	20252	METHG	R50512A
2485	Std	10.0ppb - 1		12 May 2015 07:27:49	-	ppb	10.0000	43414	METHG	R50512A
2486	CK STND	ICV - 1		12 May 2015 07:30:00	100.8% 2.5190	ppb	-	10633	METHG	R50512A
2487	CK STND	ICB - 1		12 May 2015 07:32:18	-0.0485	ppb	-	-447	METHG	R50512A
2488	CK STND	CRA - 1		12 May 2015 07:34:18	122.7% 0.2453	ppb	-	821	METHG	R50512A
2489	CK STND	CCV - 1		12 May 2015 07:36:10	96.4% 4.8200	ppb	-	20563	METHG	R50512A
2490	CK STND	CCB - 1		12 May 2015 07:38:03	-0.0478	ppb	-	-444	METHG	R50512A
2491	SMPL	180-43702-H-3-B - 1		12 May 2015 07:40:18	0.0687	ppb	-	59	METHG	R50512A
2492	SMPL	180-43702-H-4-B - 1		12 May 2015 07:42:09	0.0502	ppb	-	-21	METHG	R50512A
2493	SMPL	180-43636-M-5-B - 1		12 May 2015 07:44:01	0.0583	ppb	-	14	METHG	R50512A
2494	SMPL	MB 180-140941/1-B - 1		12 May 2015 07:45:55	0.0646	ppb	-	41	METHG	R50512A
2495	SMPL	LCS 180-140941/2-B - 1		12 May 2015 07:47:46	2.5296	ppb	-	10679	METHG	R50512A
2496	SMPL	180-43458-D-5-G - 1		12 May 2015 07:49:38	-0.0087	ppb	-	-275	METHG	R50512A
2497	SMPL	180-43458-K-6-G - 1		12 May 2015 07:51:38	0.1352	ppb	-	346	METHG	R50512A
2498	SMPL	180-43458-D-7-R - 1		12 May 2015 07:53:30	0.1044	ppb	-	213	METHG	R50512A
2499	SMPL	180-43458-D-7-S MS - 1		12 May 2015 07:55:22	1.0654	ppb	-	4360	METHG	R50512A
2500	SMPL	180-43458-D-7-T MSD - 1		12 May 2015 07:57:15	1.0137	ppb	-	4137	METHG	R50512A
2501	CK STND	CCV - 1		12 May 2015 07:59:11	93.2% 4.6603	ppb	-	19874	METHG	R50512A
2502	CK STND	CCB - 1		12 May 2015 08:01:05	-0.0258	ppb	-	-349	METHG	R50512A
2503	SMPL	180-43458-D-8-G - 1		12 May 2015 08:03:17	0.1028	ppb	-	206	METHG	R50512A
2504	SMPL	180-43458-B-9-G - 1		12 May 2015 08:05:10	0.1253	ppb	-	303	METHG	R50512A
2505	SMPL	180-43458-D-10-G - 1		12 May 2015 08:07:03	0.1315	ppb	-	330	METHG	R50512A
2506	SMPL	180-43458-D-11-G - 1		12 May 2015 08:08:55	0.1294	ppb	-	321	METHG	R50512A
2507	SMPL	180-43458-D-12-H - 1		12 May 2015 08:10:48	0.0796	ppb	-	106	METHG	R50512A
2508	SMPL	MB 180-141184/1-A - 1		12 May 2015 08:12:39	0.0703	ppb	-	66	METHG	R50512A
2509	SMPL	LCS 180-141184/2-A - 1		12 May 2015 08:14:31	2.2594	ppb	-	9513	METHG	R50512A
2510	SMPL	LCSD 180-141184/3-A - 1		12 May 2015 08:16:23	2.2439	ppb	-	9446	METHG	R50512A
2511	SMPL	180-43769-A-1-E - 1		12 May 2015 08:18:25	-0.0444	ppb	-	-429	METHG	R50512A
2512	SMPL	180-43793-A-1-C - 1		12 May 2015 08:20:25	0.0715	ppb	-	71	METHG	R50512A
2513	CK STND	CCV - 1		12 May 2015 08:22:17	95.5% 4.7750	ppb	-	20369	METHG	R50512A
2514	CK STND	CCB - 1		12 May 2015 08:24:09	-0.0652	ppb	-	-519	METHG	R50512A
2515	SMPL	180-43798-D-1-E - 1		12 May 2015 08:26:20	0.0639	ppb	-	38	METHG	R50512A
2516	SMPL	180-43810-D-1-D - 1		12 May 2015 08:28:13	0.0673	ppb	-	53	METHG	R50512A
2517	SMPL	180-43815-A-1-E - 1		12 May 2015 08:30:05	0.0780	ppb	-	99	METHG	R50512A
2518	SMPL	MB 180-141186/1-A - 1		12 May 2015 08:32:01	0.0794	ppb	-	105	METHG	R50512A
2519	SMPL	LCS 180-141186/2-A - 1		12 May 2015 08:33:54	2.7544	ppb	-	11649	METHG	R50512A
2520	SMPL	LCSD 180-141186/3-A - 1		12 May 2015 08:35:46	2.4997	ppb	-	10550	METHG	R50512A
2521	SMPL	LB 180-140885/3-C - 1		12 May 2015 08:37:45	-0.0578	ppb	-	-487	METHG	R50512A
2522	SMPL	180-43802-A-1-F - 1		12 May 2015 08:39:44	0.0662	ppb	-	48	METHG	R50512A
2523	SMPL	180-43804-A-1-I - 1		12 May 2015 08:41:36	0.0699	ppb	-	64	METHG	R50512A
2524	CK STND	CCV - 1		12 May 2015 08:43:28	97.0% 4.8497	ppb	-	20691	METHG	R50512A
2525	CK STND	CCB - 1		12 May 2015 08:45:20	-0.0668	ppb	-	-526	METHG	R50512A

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 140485 Batch Start Date: 05/04/15 12:35 Batch Analyst: Baikadi, Ashwin

Batch Method: 3005A Batch End Date: 05/04/15 16:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAPITTICPMS 00020	MTAPITTMSA 00023	MTAPITTMSC 00029	
MB 180-140485/1		3005A, 6020A		50 mL	50 mL				
LCS 180-140485/2		3005A, 6020A		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
180-43702-H-1	RB-01	3005A, 6020A	R	50 mL	50 mL				
180-43702-H-2	FB-01	3005A, 6020A	R	50 mL	50 mL				
180-43702-H-3	RB-02	3005A, 6020A	R	50 mL	50 mL				
180-43702-H-4	FB-02	3005A, 6020A	R	50 mL	50 mL				

Batch Notes	
Batch Comment	Metals A5
First End time	16:35
Lot # of hydrochloric acid	2.5 ml 1533280
Lot # of Nitric Acid	1.0 ml 1513887
Hot Block ID number	#3
Oven, Bath or Block Temperature 1	95
Pipette ID	L1201611U
Person who witnessed spiking	AB
First Start time	12:35
ID number of the thermometer	IP2-14 CF=0.0 A5
Digestion Tube/Cup Lot #	1408268
Uncorrected Temperature	95 Celsius

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 141137 Batch Start Date: 05/11/15 10:00 Batch Analyst: Freeman, Michele L

Batch Method: 7470A Batch End Date: 05/11/15 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MHgworkingCal 01042	MHgWorkingicv 01012		
ICV 180-141137/7		7470A, 7470A		50 mL	50 mL		1.25 mL		
ICB 180-141137/8		7470A, 7470A		50 mL	50 mL				
CRA 180-141137/9		7470A, 7470A		50 mL	50 mL	0.1 mL			
CCV 180-141137/10		7470A, 7470A		50 mL	50 mL	2.5 mL			
CCB 180-141137/11		7470A, 7470A		50 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	3mL 1567525 HG-DISP-C6
Batch Comment	HG-DISP-05C4676 H2O
Sulfuric Acid Lot Number	2.5mL 1541822 HG-DISP-7N8924
Lot # of Nitric Acid	1.25mL 1541821 HG-DISP-N1
Hot Block ID number	HB4
Potassium Persulfate Lot Number	4mL 1550823 HG-DISP-KS4
Potassium Permanganate Lot Number	7.5mL 1563187 HG-DISP-KMNO4
Pipette ID	L1201611U
Stannous Chloride Lot Number	1556837
Person who witnessed spiking	MLF
Temperature	95C
ID number of the thermometer	IP31-14 0.0 C2
Digestion Tube/Cup Lot #	ENV.EXPRESS 1406020

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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 141138 Batch Start Date: 05/11/15 10:00 Batch Analyst: Freeman, Michele L

Batch Method: 7470A Batch End Date: 05/11/15 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MHgworkingCal 01042			
MB 180-141138/1		7470A, 7470A		50 mL	50 mL				
LCS 180-141138/2		7470A, 7470A		50 mL	50 mL	1.25 mL			
180-43702-H-1	RB-01	7470A, 7470A	T	50 mL	50 mL				
180-43702-H-2	FB-01	7470A, 7470A	T	50 mL	50 mL				
180-43702-H-3	RB-02	7470A, 7470A	T	50 mL	50 mL				
180-43702-H-4	FB-02	7470A, 7470A	T	50 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	3mL 1567525 HG-DISP-C6
Batch Comment	HG-DISP-05C4676 H2O
Sulfuric Acid Lot Number	2.5mL 1541822 HG-DISP-7N8924
Lot # of Nitric Acid	1.25mL 1541821 HG-DISP-N1
Hot Block ID number	HB2
Potassium Persulfate Lot Number	4mL 1550823 HG-DISP-KS4
Potassium Permanganate Lot Number	7.5mL 1563187 HG-DISP-KMNO4
Pipette ID	L1201611U
Stannous Chloride Lot Number	1556837
Person who witnessed spiking	MLF
Temperature	95C
ID number of the thermometer	IP29-14 0.0 C2
Digestion Tube/Cup Lot #	ENV.EXPRESS 1406020

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-43702-1

SDG No.:

Project: Sparrows Point Trust Offshore Investigat

Client Sample ID	Lab Sample ID
RB-01	180-43702-1
FB-01	180-43702-2
RB-02	180-43702-3
FB-02	180-43702-4

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 180-43702-1

SDG No.:

Project: Sparrows Point Trust Offshore Investigat

Client Sample ID	Lab Sample ID
RB-01	180-43702-1
FB-01	180-43702-2
RB-02	180-43702-3
FB-02	180-43702-4

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RB-01 Lab Sample ID: 180-43702-1

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2015 17:30

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	ND	10	2.5	ug/L			1	9014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: FB-01 Lab Sample ID: 180-43702-2

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2015 17:45

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	ND	10	2.5	ug/L			1	9014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RB-02 Lab Sample ID: 180-43702-3

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 05/01/2015 15:00

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	ND	10	2.5	ug/L			1	9014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: FB-02 Lab Sample ID: 180-43702-4

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 05/01/2015 15:15

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	ND	10	2.5	ug/L			1	9014

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RB-01 Lab Sample ID: 180-43702-1

Lab Name: TestAmerica Canton Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2015 17:30

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	HEM (Oil & Grease)	1.2	6.1	1.2	mg/L	J		1	1664A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: FB-01 Lab Sample ID: 180-43702-2

Lab Name: TestAmerica Canton Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 04/30/2015 17:45

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	HEM (Oil & Grease)	ND	5.9	1.2	mg/L			1	1664A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RB-02 Lab Sample ID: 180-43702-3

Lab Name: TestAmerica Canton Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 05/01/2015 15:00

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	HEM (Oil & Grease)	ND	5.8	1.2	mg/L			1	1664A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: FB-02 Lab Sample ID: 180-43702-4

Lab Name: TestAmerica Canton Job No.: 180-43702-1

SDG ID.:

Matrix: Water Date Sampled: 05/01/2015 15:15

Reporting Basis: WET Date Received: 05/02/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	HEM (Oil & Grease)	ND	5.7	1.2	mg/L			1	1664A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Analyst: PGJ Batch Start Date: 05/12/2015

Reporting Units: ug/L Analytical Batch No.: 141317

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	ICV	13:51	Cyanide, Total	216	200	108	90-110		WCN0.2ICV_00334
10	ICB	13:53	Cyanide, Total	ND					
11	CCV	13:56	Cyanide, Total	102	100	102	90-110		WCN0.1L3_00049
12	CCB	13:58	Cyanide, Total	ND					
23	CCV	14:21	Cyanide, Total	103	100	103	90-110		WCN0.1L3_00049
24	CCB	14:24	Cyanide, Total	ND					
35	CCV	14:47	Cyanide, Total	105	100	105	90-110		WCN0.1L3_00049
36	CCB	14:49	Cyanide, Total	ND					
44	CCV	15:04	Cyanide, Total	102	100	102	90-110		WCN0.1L3_00049
45	CCB	15:06	Cyanide, Total	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Analyst: PGJ Batch Start Date: 05/15/2015

Reporting Units: ug/L Analytical Batch No.: 141746

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	ICV	11:13	Cyanide, Total	213	200	106	90-110		WCN0.2ICV_00340
10	ICB	11:15	Cyanide, Total	ND					
11	CCV	11:17	Cyanide, Total	102	100	102	90-110		WCN0.1L3_00052
12	CCB	11:19	Cyanide, Total	ND					
23	CCV	11:43	Cyanide, Total	101	100	101	90-110		WCN0.1L3_00052
24	CCB	11:45	Cyanide, Total	ND					
35	CCV	12:09	Cyanide, Total	106	100	106	90-110		WCN0.1L3_00052
36	CCB	12:11	Cyanide, Total	ND					
43	CCV	12:24	Cyanide, Total	105	100	105	90-110		WCN0.1L3_00052
44	CCB	12:25	Cyanide, Total	ND					

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 141317	Date: 05/12/2015 14:06	Prep Batch: 141255	Date: 05/12/2015 13:00				
9014	MB 180-141255/4-A	Cyanide, Total	ND		ug/L	10	1
Batch ID: 141746	Date: 05/15/2015 11:28	Prep Batch: 141677	Date: 05/15/2015 08:15				
9014	MB 180-141677/4-A	Cyanide, Total	ND		ug/L	10	1

FORM III-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 180-43702-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 181838	Date: 05/21/2015 08:59	Prep Batch: 181813	Date: 05/21/2015 08:59				
1664A	MB 240-181813/1-A	HEM (Oil & Grease)	ND		mg/L	5.0	1

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 141317	Date: 05/12/2015 14:04		Prep Batch: 141255			Date: 05/12/2015 13:00					
						LCS Source: WCNLCS_00019					
9014	LCS 180-141255/3-A	Cyanide, Total	209		ug/L	200	104	85-115			
Batch ID: 141746	Date: 05/15/2015 11:26		Prep Batch: 141677			Date: 05/15/2015 08:15					
						LCS Source: WCNLCS_00019					
9014	LCS 180-141677/3-A	Cyanide, Total	210		ug/L	200	105	85-115			

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

FORM VIIA-IN

7A-IN
LOW LEVEL CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 141317	Date: 05/12/2015 14:00		Prep Batch: 141255			Date: 05/12/2015 13:00					
						LCS Source: WCN0.5L1_00499					
9014	LLCS 180-141255/1-A	Cyanide, Total	46.9		ug/L	50.0	94	90-110			
Batch ID: 141746	Date: 05/15/2015 11:21		Prep Batch: 141677			Date: 05/15/2015 08:15					
						LCS Source: WCN0.5L1_00501					
9014	LLCS 180-141677/1-A	Cyanide, Total	48.0		ug/L	50.0	96	90-110			

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

FORM VIIA-IN

7A-IN
HIGH LEVEL CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 141317	Date: 05/12/2015 14:02		Prep Batch: 141255			Date: 05/12/2015 13:00					
						LCS Source: WCN10Pi_00487					
9014	HLCS 180-141255/2-A	Cyanide, Total	247		ug/L	250	99	90-110			
Batch ID: 141746	Date: 05/15/2015 11:24		Prep Batch: 141677			Date: 05/15/2015 08:15					
						LCS Source: WCN10Pi_00487					
9014	HLCS 180-141677/2-A	Cyanide, Total	255		ug/L	250	102	90-110			

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 180-43702-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 181838	Date: 05/21/2015 08:59		Prep Batch: 181813		Date: 05/21/2015 08:59						
					LCS Source: wchemlcs_00093						
1664A	LCS 240-181813/2-A	HEM (Oil & Grease)	35.5		mg/L	40.0	89	78-114			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-43702-1

SDG Number:

Matrix: Water Instrument ID: SEAL2

Method: 9014 MDL Date: 10/15/2014 12:58

Prep Method: 9010C

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Cyanide, Total		10	2.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-43702-1

SDG Number:

Matrix: Water Instrument ID: SEAL2

Method: 9014 XMDL Date: 10/15/2014 12:59

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cyanide, Total		10	2.5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 180-43702-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 1664A MDL Date: 09/17/2014 09:15

Prep Method: 1664A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
HEM (Oil & Grease)		5	1.03

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 180-43702-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 1664A XMDL Date: 09/17/2014 09:17

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
HEM (Oil & Grease)		5	1.03

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Prep Method: 9010C

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LLCS 180-141255/1-A	05/12/2015 13:00	141255		50	50
HLCS 180-141255/2-A	05/12/2015 13:00	141255		50	50
LCS 180-141255/3-A	05/12/2015 13:00	141255		50	50
MB 180-141255/4-A	05/12/2015 13:00	141255		50	50
180-43702-1	05/12/2015 13:00	141255		50	50
180-43702-2	05/12/2015 13:00	141255		50	50

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Prep Method: 9010C

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LLCS 180-141677/1-A	05/15/2015 08:15	141677		50	50
HLCS 180-141677/2-A	05/15/2015 08:15	141677		50	50
LCS 180-141677/3-A	05/15/2015 08:15	141677		50	50
MB 180-141677/4-A	05/15/2015 08:15	141677		50	50
180-43702-3	05/15/2015 08:15	141677		50	50
180-43702-4	05/15/2015 08:15	141677		50	50

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 180-43702-1

SDG No.:

Prep Method: 1664A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-181813/1-A	05/21/2015 08:59	181813		1000	1000
LCS 240-181813/2-A	05/21/2015 08:59	181813		1000	1000
180-43702-1	05/21/2015 08:59	181813		826	1000
180-43702-3	05/21/2015 08:59	181813		868	1000
180-43702-2	05/21/2015 08:59	181813		843	1000
180-43702-4	05/21/2015 08:59	181813		874	1000

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: SEAL2 Analysis Method: 9014

Start Date: 05/12/2015 13:34 End Date: 05/12/2015 15:06

Lab Sample Id	D/F	Type	Time	Analytes
				CN
ZZZZZZ			13:34	
ZZZZZZ			13:36	
ZZZZZZ			13:38	
ZZZZZZ			13:41	
ZZZZZZ			13:43	
ZZZZZZ			13:45	
ZZZZZZ			13:47	
ZZZZZZ			13:49	
ICV 180-141317/9	1		13:51	X
ICB 180-141317/10	1		13:53	X
CCV 180-141317/11	1		13:56	X
CCB 180-141317/12	1		13:58	X
LLCS 180-141255/1-A	1	T	14:00	X
HLCS 180-141255/2-A	1	T	14:02	X
LCS 180-141255/3-A	1	T	14:04	X
MB 180-141255/4-A	1	T	14:06	X
ZZZZZZ			14:09	
ZZZZZZ			14:11	
ZZZZZZ			14:13	
ZZZZZZ			14:15	
ZZZZZZ			14:17	
ZZZZZZ			14:19	
CCV 180-141317/23	1		14:21	X
CCB 180-141317/24	1		14:24	X
ZZZZZZ			14:26	
ZZZZZZ			14:28	
ZZZZZZ			14:30	
ZZZZZZ			14:32	
ZZZZZZ			14:34	
ZZZZZZ			14:36	
180-43702-1	1	T	14:39	X
180-43702-2	1	T	14:41	X
ZZZZZZ			14:43	
ZZZZZZ			14:45	
CCV 180-141317/35	1		14:47	X
CCB 180-141317/36	1		14:49	X
ZZZZZZ			14:51	
ZZZZZZ			14:54	
ZZZZZZ			14:56	
ZZZZZZ			14:58	
ZZZZZZ			14:59	
ZZZZZZ			15:01	

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: SEAL2 Analysis Method: 9014

Start Date: 05/12/2015 13:34 End Date: 05/12/2015 15:06

Lab Sample Id	D/F	Type	Time	Analytes																								
				CN																								
ZZZZZZ			15:03																									
CCV 180-141317/44	1		15:04	X																								
CCB 180-141317/45	1		15:06	X																								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: SEAL2 Analysis Method: 9014

Start Date: 05/15/2015 10:56 End Date: 05/15/2015 12:25

Lab Sample Id	D/F	Type	Time	Analytes
				CN
ZZZZZZ			10:56	
ZZZZZZ			10:58	
ZZZZZZ			11:00	
ZZZZZZ			11:02	
ZZZZZZ			11:04	
ZZZZZZ			11:06	
ZZZZZZ			11:09	
ZZZZZZ			11:11	
ICV 180-141746/9	1		11:13	X
ICB 180-141746/10	1		11:15	X
CCV 180-141746/11	1		11:17	X
CCB 180-141746/12	1		11:19	X
LLCS 180-141677/1-A	1	T	11:21	X
HLCS 180-141677/2-A	1	T	11:24	X
LCS 180-141677/3-A	1	T	11:26	X
MB 180-141677/4-A	1	T	11:28	X
ZZZZZZ			11:30	
180-43702-3	1	T	11:32	X
180-43702-4	1	T	11:34	X
ZZZZZZ			11:36	
ZZZZZZ			11:39	
ZZZZZZ			11:41	
CCV 180-141746/23	1		11:43	X
CCB 180-141746/24	1		11:45	X
ZZZZZZ			11:47	
ZZZZZZ			11:49	
ZZZZZZ			11:51	
ZZZZZZ			11:54	
ZZZZZZ			11:56	
ZZZZZZ			11:58	
ZZZZZZ			12:00	
ZZZZZZ			12:02	
ZZZZZZ			12:04	
ZZZZZZ			12:06	
CCV 180-141746/35	1		12:09	X
CCB 180-141746/36	1		12:11	X
ZZZZZZ			12:13	
ZZZZZZ			12:15	
ZZZZZZ			12:17	
ZZZZZZ			12:19	
ZZZZZZ			12:20	
ZZZZZZ			12:22	

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Instrument ID: SEAL2 Analysis Method: 9014

Start Date: 05/15/2015 10:56 End Date: 05/15/2015 12:25

Lab Sample Id	D/F	Type	Time	Analytes																									
				CN																									
CCV 180-141746/43	1		12:24	X																									
CCB 180-141746/44	1		12:25	X																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 180-43702-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: 1664A

Start Date: 05/21/2015 08:59 End Date: 05/21/2015 08:59

Lab Sample Id	D/F	Type	Time	Analytes																								
				HEM																								
MB 240-181813/1-A	1	T	08:59	X																								
LCS 240-181813/2-A	1	T	08:59	X																								
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
180-43702-1	1	T	08:59	X																								
180-43702-3	1	T	08:59	X																								
180-43702-2	1	T	08:59	X																								
180-43702-4	1	T	08:59	X																								
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									
ZZZZZZ			08:59																									

Prep Types:
T = Total/NA

FORM XIII-IN

AQ2 Report

Serial Number: SEAL 2
Report Requested By: Test America
Date & Time: 05/12/2015 15:27:15
Tray Number: 1
Tray Name: 15.05.12 (13-06)

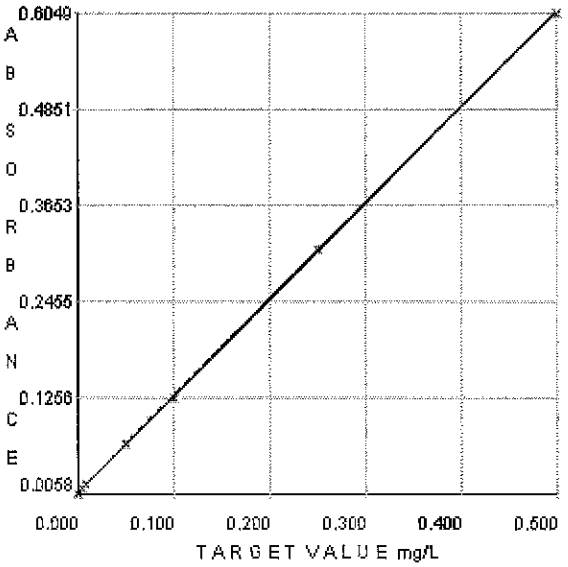
CYANIDE

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0058	-0.0011	0.0000	
S90	0.0126	0.0045	0.0050	-9.6909
S91	0.0179	0.0090	0.0100	-10.3232
S92	0.0689	0.0515	0.0500	2.9948
S93	0.1270	0.0999	0.1000	-0.0820
S94	0.3102	0.2527	0.2500	1.0850
S95	0.6049	0.4985	0.5000	-0.2928
S0	0.0062	-0.0008	0.0000	

Polynomial Order: 1
Correlation Coefficient: 1.0000
Carryover: 0.1
Date & Time: 05/12/2015 13:49:41

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
CN - Phos Buff	1390860	Test America	11/03/2015 21:00:00
CN - Chl-T	1563254	Test America	05/14/2015 22:00:00
CN - PyrBrbA	1428101	Test America	06/04/2015 22:00:00

Cup	Type	ID	Result	Units	Raw Data	Test Dil.	Cup Dil.	User	Time/Date
	S1	STANDARD 1	0.0058		0.005792				05/12/2015 13:34:37
	S90	STANDARD 90	0.0126		0.012582				05/12/2015 13:36:48
	S91	STANDARD 91	0.0179		0.017920				05/12/2015 13:38:56
	S92	STANDARD 92	0.0689		0.068916				05/12/2015 13:41:04
	S93	STANDARD 93	0.1270		0.126975				05/12/2015 13:43:14
	S94	STANDARD 94	0.3102		0.310186				05/12/2015 13:45:25
	S95	STANDARD 95	0.6049		0.604945				05/12/2015 13:47:33
	S0	STANDARD 0	0.0062		0.006189				05/12/2015 13:49:41
1	C15	ICV	0.2155	mg/L	0.265614				05/12/2015 13:51:49
2	C17	ICB	-0.0009	mg/L	0.006119				05/12/2015 13:53:57
	C11	C C V	0.1020	mg/L	0.129435				05/12/2015 13:56:06
	C12	C C B	-0.0014	mg/L	0.005535				05/12/2015 13:58:14
3	U1	LLCS 180-1412551-A	0.0469	mg/L	0.063418				05/12/2015 14:00:23
4	U2	HLCS 180-1412552-A	0.2473	mg/L	0.303745				05/12/2015 14:02:32
5	U3	LCS 180-1412553-A	0.2086	mg/L	0.257305				05/12/2015 14:04:41

6	U4	MB 180-1412554-A	-0.0005	mg/L	0.006519	05/12/2015 14:06:49
7	U5	180-43640-K-1-A	-0.0009	mg/L	0.006117	05/12/2015 14:09:00
8	U6	180-43640-K-2-A	0.1795	mg/L	0.222412	05/12/2015 14:11:10
9	U7	180-43640-K-3-A	0.0037	mg/L	0.011557	05/12/2015 14:13:19
10	U8	180-43640-K-4-A	-0.0000	mg/L	0.007149	05/12/2015 14:15:29
11	U9	180-43643-H-6-A	0.0041	mg/L	0.012105	05/12/2015 14:17:37
12	U10	180-43643-H-7-A	-0.0006	mg/L	0.006499	05/12/2015 14:19:46
	C11	C C V	0.1030	mg/L	0.130705	05/12/2015 14:21:55
	C12	C C B	-0.0012	mg/L	0.005693	05/12/2015 14:24:04
13	U11	180-43643-H-8-A	-0.0011	mg/L	0.005836	05/12/2015 14:26:13
14	U12	180-43690-H-1-A	0.0192	mg/L	0.030214	05/12/2015 14:28:21
15	U13	180-43690-H-3-A	0.0080	mg/L	0.016792	05/12/2015 14:30:29
16	U14	180-43690-H-4-A	-0.0005	mg/L	0.006612	05/12/2015 14:32:37
17	U15	180-43698-M-7-A	-0.0006	mg/L	0.006477	05/12/2015 14:34:47
18	U16	180-43698-M-8-A	-0.0006	mg/L	0.006504	05/12/2015 14:36:58
19	U17	180-43702-G-1-A	-0.0015	mg/L	0.005417	05/12/2015 14:39:06
20	U18	180-43702-G-2-A	-0.0004	mg/L	0.006699	05/12/2015 14:41:14
21	U19	180-43753-A-2-A	0.1904	mg/L	0.235440	05/12/2015 14:43:22
22	U20	180-43753-C-4-A	0.2406	mg/L	0.295714	05/12/2015 14:45:30
	C11	C C V	0.1048	mg/L	0.132817	05/12/2015 14:47:38
	C12	C C B	-0.0009	mg/L	0.006056	05/12/2015 14:49:46
23	U21	180-43786-D-10-A	0.0002	mg/L	0.007376	05/12/2015 14:51:54
24	U22	180-43790-D-2-A	0.0331	mg/L	0.046847	05/12/2015 14:54:05
25	U23	180-43790-B-2-A DU	0.0346	mg/L	0.048596	05/12/2015 14:56:15
26	U24	180-43790-C-2-A MS	0.1366	mg/L	0.170953	05/12/2015 14:58:02
27	U25	180-43790-D-2-B MSD	0.1459	mg/L	0.182105	05/12/2015 14:59:51
28	U26	180-43822-L-1-A	-0.0004	mg/L	0.006747	05/12/2015 15:01:30
29	U27	180-43841-A-2-A	-0.0007	mg/L	0.006302	05/12/2015 15:03:10
	C11	C C V	0.1024	mg/L	0.130007	05/12/2015 15:04:49
	C12	C C B	-0.0007	mg/L	0.006307	05/12/2015 15:06:30

AQ2 Report

Serial Number: SEAL 2
Report Requested By: Test America
Date & Time: 05/15/2015 12:55:48
Tray Number: 1
Tray Name: 15.05.15 (08-30)

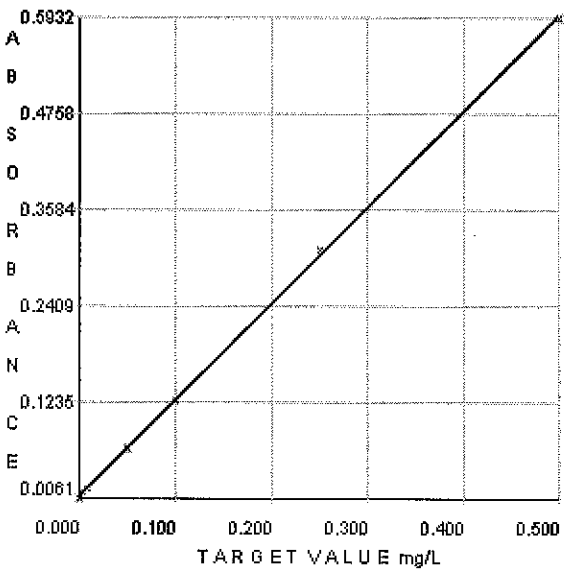
CYANIDE

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0061	-0.0011	0.0000	
S90	0.0127	0.0045	0.0050	-9.0483
S91	0.0176	0.0087	0.0100	-12.9825
S92	0.0663	0.0500	0.0500	0.0421
S93	0.1255	0.1003	0.1000	0.2759
S94	0.3080	0.2552	0.2500	2.0896
S95	0.5932	0.4974	0.5000	-0.5278
S0	0.0059	-0.0013	0.0000	

Polynomial Order: 1
Correlation Coefficient: 0.9999
Carryover: -0.0
Date & Time: 05/15/2015 11:11:09

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
CN - Phos Buff	1390860	Test America	11/03/2015 21:00:00
CN - Chl-T	1563254	Test America	05/21/2015 22:00:00
CN - PyrBrbA	1428101	Test America	06/04/2015 22:00:00

Cup	Type	ID	Result	Units	Raw Data	Test Dil.	Cup Dil.	User	Time/Date
	S1	STANDARD 1	0.0061		0.006056				05/15/2015 10:56:05
	S90	STANDARD 90	0.0127		0.012745				05/15/2015 10:58:16
	S91	STANDARD 91	0.0176		0.017638				05/15/2015 11:00:23
	S92	STANDARD 92	0.0663		0.066309				05/15/2015 11:02:32
	S93	STANDARD 93	0.1255		0.125505				05/15/2015 11:04:42
	S94	STANDARD 94	0.3080		0.308021				05/15/2015 11:06:53
	S95	STANDARD 95	0.5932		0.593238				05/15/2015 11:09:01
	S0	STANDARD 0	0.0059		0.005876				05/15/2015 11:11:09
1	C15	ICV	0.2127	mg/L	0.257987				05/15/2015 11:13:17
2	C17	ICB	-0.0009	mg/L	0.006381				05/15/2015 11:15:25
	C11	C C V	0.1022	mg/L	0.127720				05/15/2015 11:17:34
	C12	C C B	-0.0015	mg/L	0.005655				05/15/2015 11:19:42
3	U1	LLCS 180-1416771-A	0.0480	mg/L	0.063969				05/15/2015 11:21:51
4	U2	HLCS 180-1416772-A	0.2545	mg/L	0.307210				05/15/2015 11:24:00
5	U3	LCS 180-1416773-A	0.2101	mg/L	0.254840				05/15/2015 11:26:08

6	U4	MB 180-1416774-A	-0.0008	mg/L	0.006413	05/15/2015 11:28:17
7	U5	180-43690-H-2-A	0.0087	mg/L	0.017643	05/15/2015 11:30:28
8	U6	180-43702-G-3-A	-0.0009	mg/L	0.006310	05/15/2015 11:32:39
9	U7	180-43702-G-4-A	-0.0013	mg/L	0.005887	05/15/2015 11:34:48
10	U8	180-43725-K-1-A	0.0002	mg/L	0.007647	05/15/2015 11:36:57
11	U9	180-43725-K-2-A	0.0009	mg/L	0.008402	05/15/2015 11:39:06
12	U10	180-43725-K-3-A	0.0030	mg/L	0.010881	05/15/2015 11:41:15
	C11	C C V	0.1014	mg/L	0.126815	05/15/2015 11:43:24
	C12	C C B	-0.0015	mg/L	0.005570	05/15/2015 11:45:33
13	U11	180-43766-H-1-A	-0.0006	mg/L	0.006629	05/15/2015 11:47:41
14	U12	180-43766-H-2-A	0.0182	mg/L	0.028790	05/15/2015 11:49:50
15	U13	180-43766-H-3-A	0.0017	mg/L	0.009445	05/15/2015 11:51:58
16	U14	180-43766-H-4-A	-0.0006	mg/L	0.006693	05/15/2015 11:54:06
17	U15	180-43766-H-5-A	0.0059	mg/L	0.014332	05/15/2015 11:56:16
18	U16	180-43766-H-6-A	-0.0000	mg/L	0.007374	05/15/2015 11:58:27
19	U17	180-43791-G-1-A	0.0002	mg/L	0.007620	05/15/2015 12:00:35
20	U18	180-43791-G-2-A	-0.0002	mg/L	0.007113	05/15/2015 12:02:43
21	U19	180-43791-D-3-A	0.0000	mg/L	0.007394	05/15/2015 12:04:51
22	U20	180-43791-D-4-A	0.0001	mg/L	0.007559	05/15/2015 12:06:59
	C11	C C V	0.1059	mg/L	0.132158	05/15/2015 12:09:07
	C12	C C B	-0.0014	mg/L	0.005691	05/15/2015 12:11:15
23	U21	180-43799-L-1-A	-0.0005	mg/L	0.006853	05/15/2015 12:13:28
24	U22	680-112238-C-1-A	-0.0009	mg/L	0.006297	05/15/2015 12:15:39
25	U23	680-112238-C-1-B MS	0.0980	mg/L	0.122780	05/15/2015 12:17:26
26	U24	680-112238-C-1-C MS	0.1093	mg/L	0.136167	05/15/2015 12:19:14
27	U25	680-112238-C-2-A	-0.0015	mg/L	0.005657	05/15/2015 12:20:53
28	U26	680-112238-C-3-A	0.0001	mg/L	0.007487	05/15/2015 12:22:33
	C11	C C V	0.1045	mg/L	0.130455	05/15/2015 12:24:12
	C12	C C B	-0.0009	mg/L	0.006290	05/15/2015 12:25:53

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 141255 Batch Start Date: 05/12/15 10:50 Batch Analyst: Johnson, Paul

Batch Method: 9010C Batch End Date: 05/12/15 12:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SulfideCheck	ChlorineCheck	WCN0.5L1 00499	WCN10Pi 00487
LLCS 180-141255/1		9010C, 9014		50 mL	50 mL			5 mL	
HLCS 180-141255/2		9010C, 9014		50 mL	50 mL				1.25 mL
LCS 180-141255/3		9010C, 9014		50 mL	50 mL				
MB 180-141255/4		9010C, 9014		50 mL	50 mL				
180-43702-G-1	RB-01	9010C, 9014	T	50 mL	50 mL	N	N		
180-43702-G-2	FB-01	9010C, 9014	T	50 mL	50 mL	N	N		

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCNLCS 00019
LLCS 180-141255/1		9010C, 9014		
HLCS 180-141255/2		9010C, 9014		
LCS 180-141255/3		9010C, 9014		1 mL
MB 180-141255/4		9010C, 9014		
180-43702-G-1	RB-01	9010C, 9014	T	
180-43702-G-2	FB-01	9010C, 9014	T	

Batch Notes	
Distillation Temperature	150 Degrees C
KI-Starch Paper Lot #	1276531
Lead Acetate Lot #	1276537
Magnesium Chloride Dispenser ID	42145
Magnesium Chloride Lot Number	1508124
NaOH Dispenser ID	10J62292
Sodium Hydroxide Reagent ID Number	1427994
Pipette ID	D1203165U
Sulfamic Acid Reagent ID Number	955307
Sulfuric Acid Dispenser ID	21014
Sulfuric Acid Reagent ID Number	1549387

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 141255 Batch Start Date: 05/12/15 10:50 Batch Analyst: Johnson, Paul

Batch Method: 9010C Batch End Date: 05/12/15 12:20

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 141317 Batch Start Date: 05/12/15 13:34 Batch Analyst: Johnson, Paul

Batch Method: 9014 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WCN0.1L3 00049	WCN0.2ICV 00334			
ICV 180-141317/9		9014		1 mL		1 mL			
CCV 180-141317/11		9014		1 mL	1 mL				
CCV 180-141317/23		9014		1 mL	1 mL				
CCV 180-141317/35		9014		1 mL	1 mL				
CCV 180-141317/44		9014		1 mL	1 mL				

Batch Notes	
Buffer Reagent ID Number	1390860
Chloramine-T Reagent ID Number	1563254
NaOH Lot #	1427994
Pipette ID	D1203165U
Pyridine-Barbituric Acid Reagent ID	1428101

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 141677 Batch Start Date: 05/15/15 08:15 Batch Analyst: Johnson, Paul

Batch Method: 9010C Batch End Date: 05/15/15 09:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SulfideCheck	ChlorineCheck	WCN0.5L1 00501	WCN10Pi 00487
LLCS 180-141677/1		9010C, 9014		50 mL	50 mL			5 mL	
HLCS 180-141677/2		9010C, 9014		50 mL	50 mL				1.25 mL
LCS 180-141677/3		9010C, 9014		50 mL	50 mL				
MB 180-141677/4		9010C, 9014		50 mL	50 mL				
180-43702-G-3	RB-02	9010C, 9014	T	50 mL	50 mL	N	N		
180-43702-G-4	FB-02	9010C, 9014	T	50 mL	50 mL	N	N		

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCNLCS 00019
LLCS 180-141677/1		9010C, 9014		
HLCS 180-141677/2		9010C, 9014		
LCS 180-141677/3		9010C, 9014		1 mL
MB 180-141677/4		9010C, 9014		
180-43702-G-3	RB-02	9010C, 9014	T	
180-43702-G-4	FB-02	9010C, 9014	T	

Batch Notes	
Distillation Temperature	150 Degrees C
KI-Starch Paper Lot #	1276531
Lead Acetate Lot #	1276537
Magnesium Chloride Dispenser ID	42145
Magnesium Chloride Lot Number	1508124
NaOH Dispenser ID	10J62292
Sodium Hydroxide Reagent ID Number	1427994
Pipette ID	D1203165U
Sulfamic Acid Reagent ID Number	955307
Sulfuric Acid Dispenser ID	21014
Sulfuric Acid Reagent ID Number	1549387

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 141677 Batch Start Date: 05/15/15 08:15 Batch Analyst: Johnson, Paul

Batch Method: 9010C Batch End Date: 05/15/15 09:45

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 141746 Batch Start Date: 05/15/15 10:56 Batch Analyst: Johnson, Paul

Batch Method: 9014 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCN0.1L3 00052	WCN0.2ICV 00340		
ICV 180-141746/9		9014		1.0 mL	1.0 mL		1 mL		
ICB 180-141746/10		9014		1.0 mL	1.0 mL				
CCV 180-141746/11		9014		1.0 mL	1.0 mL	1 mL			
CCB 180-141746/12		9014		1.0 mL	1.0 mL				
LLCS 180-141677/1-A		9014		1.0 mL	1.0 mL				
HLCS 180-141677/2-A		9014		1.0 mL	1.0 mL				
LCS 180-141677/3-A		9014		1.0 mL	1.0 mL				
MB 180-141677/4-A		9014		1.0 mL	1.0 mL				
180-43702-G-3-A	RB-02	9014	T	1.0 mL	1.0 mL				
180-43702-G-4-A	FB-02	9014	T	1.0 mL	1.0 mL				
CCV 180-141746/23		9014		1.0 mL	1.0 mL	1 mL			
CCB 180-141746/24		9014		1.0 mL	1.0 mL				
CCV 180-141746/35		9014		1.0 mL	1.0 mL	1 mL			
CCB 180-141746/36		9014		1.0 mL	1.0 mL				
CCV 180-141746/43		9014		1.0 mL	1.0 mL	1 mL			
CCB 180-141746/44		9014		1.0 mL	1.0 mL				

Batch Notes	
Buffer Reagent ID Number	1390860
Chloramine-T Reagent ID Number	1563254
NaOH Lot #	1427994
Pipette ID	D1203165U
Pyridine-Barbituric Acid Reagent ID	1428101

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 Pittsburgh Job No.: 180-43702-1

SDG No.:

Batch Number: 141746 Batch Start Date: 05/15/15 10:56 Batch Analyst: Johnson, Paul

Batch Method: 9014 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 180-43702-1

SDG No.:

Batch Number: 181813 Batch Start Date: 05/21/15 08:59 Batch Analyst: Eikelberry, Nicholas

Batch Method: 1664A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	Final pH	GrossWeight	TareWeight	InitialAmount	FinalAmount
MB 240-181813/1		1664A, 1664A		5 SU	0 SU	1000 g	0 g	1000 mL	1000 mL
LCS 240-181813/2		1664A, 1664A		5 SU	0 SU	1000 g	0 g	1000 mL	1000 mL
180-43702-A-1	RB-01	1664A, 1664A	T	0 SU	0 SU	1296.72 g	471.04 g	826 mL	1000 mL
180-43702-B-3	RB-02	1664A, 1664A	T	0 SU	0 SU	1339.81 g	472.25 g	868 mL	1000 mL
180-43702-B-2	FB-01	1664A, 1664A	T	0 SU	0 SU	1313.67 g	471 g	843 mL	1000 mL
180-43702-B-4	FB-02	1664A, 1664A	T	0 SU	0 SU	1346.09 g	472.30 g	874 mL	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	wchemlcs 00093					
MB 240-181813/1		1664A, 1664A							
LCS 240-181813/2		1664A, 1664A		10 mL					
180-43702-A-1	RB-01	1664A, 1664A	T						
180-43702-B-3	RB-02	1664A, 1664A	T						
180-43702-B-2	FB-01	1664A, 1664A	T						
180-43702-B-4	FB-02	1664A, 1664A	T						

Batch Notes	
Acid used for pH adjustment	1:1 HCL
Balance ID	B041
Filter Paper Lot Number	40210
Hexane Lot#	+H4799262032G
Methanol Lot Number	+161620000085233JB
Nominal Amount Used	1000 mL
Sufficient volume for MS/MSD?	Y

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 Canton Job No.: 180-43702-1

SDG No.:

Batch Number: 181838 Batch Start Date: 05/21/15 09:54 Batch Analyst: Eikelberry, Nicholas

Batch Method: 1664A Batch End Date: 05/21/15 16:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	ReceiverTube	HEMWgt1	HEMWgt2	Residue	Residue2
MB 240-181813/1-A		1664A		1000 mL	6.3666 g	6.3674 g	6.3674 g	0.0008 g	0.0008 g
LCS 240-181813/2-A		1664A		1000 mL	6.3411 g	6.3764 g	6.3766 g	0.0353 g	0.0355 g
180-43702-A-1-A	RB-01	1664A	T	1000 mL	6.3575 g	6.3586 g	6.3585 g	0.0011 g	0.001 g
180-43702-B-3-A	RB-02	1664A	T	1000 mL	6.3699 g	6.3697 g	6.3697 g	-0.0002 g	-0.0002 g
180-43702-B-2-A	FB-01	1664A	T	1000 mL	6.3488 g	6.3491 g	6.3491 g	0.0003 g	0.0003 g
180-43702-B-4-A	FB-02	1664A	T	1000 mL	6.3171 g	6.3172 g	6.3172 g	0.0001 g	0.0001 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight2OK	CalcMsg				
MB 240-181813/1-A		1664A		Pass 0.0005g	HEM OK. SGT-HEM not calculated.				
LCS 240-181813/2-A		1664A		Pass 0.0005g	HEM OK. SGT-HEM not calculated.				
180-43702-A-1-A	RB-01	1664A	T	Pass 0.0005g	HEM OK. SGT-HEM not calculated.				
180-43702-B-3-A	RB-02	1664A	T	Pass 0.0005g	HEM OK. SGT-HEM not calculated.				
180-43702-B-2-A	FB-01	1664A	T	Pass 0.0005g	HEM OK. SGT-HEM not calculated.				
180-43702-B-4-A	FB-02	1664A	T	Pass 0.0005g	HEM OK. SGT-HEM not calculated.				

Batch Notes	
Acid used for pH adjustment	1:1 HCL
Balance ID	B041
Cal check after 2nd Weighing - 1g	1.0000 g
Cal check after 2nd Weighing - 2 mg	0.0020 g
Cal check before 1st Weighing - 1g	1.0000 g
Cal check before 1st Weighing - 2 mg	0.0020 g
Perform Calculation (0=No, 1=Yes)	1

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.

Subcontract Data

Shipping and Receiving Documents

Client:	Project Manager:	Parameters/Method Numbers for Analysis	Chain of Custody Record
EA Engineering Science, and Technology, Inc.	**Frank Barranco**		Laboratory:
	Phone: 410-329-5137		**TestAmerica - Pittsburgh**
225 Schilling Circle, Suite 400	Field Contact:		**301 Alpha Drive**
Hunt Valley, MD 21031	**Morgan Gelinas**		**Pittsburgh, PA 15238**
	Phone: (860) 287-0745		**phone: 412.963.2428**
Project Name: Sparrows Point	TestAmerica Quote #:		**fax: 412.963.2468**
Project#: 15131.01			**ATTN: Carrie Gamber**
Page 1 of 1	**Site Water**		

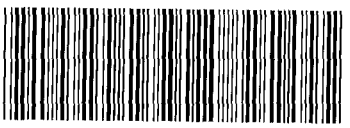
Date	Time	Water	Sediment	Sample Identification	No. of Containers	PPL VOCs (SW846 8260C)	PPL SVOCs/PAHs (SW846 8270D LL)	PPL Metals (SW846 6020A)	Mercury (SW846 7470A)	PCB Arocolors (SW846 8082A LL)	Cyanide (SW846 9014)	Oil and Grease (EPA Method 1644B)	Remarks
4/30/2015	1730	X		RB-01	11	X	X	X	X	X	X	X	**SEE PROJECT SPECIFIC ANALYTE LIST**
4/30/2015	1745	X		FB-01	11	X	X	X	X	X	X	X	
5/1/15	1500	X		RB-02	11	X	X	X	X	X	X	X	
5/1/15	1515	X		FB-02	11	X	X	X	X	X	X	X	

180-43702 Chain of Custody

Sampled by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	SPARROWS POINT QA/QC BLANKS
	5/1/15 1600	Bellina Watson		
Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Time	
	5/1/15 1800	Bellina Watson	5-2-15 9:00	

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to yc** Print button on the print dialog box that appears. Note: If your browser d select Print from the File menu to print the label.


180-43702 Waybill

2. **Fold the printed label at the solid line below.** Place the label in a UF not have a pouch, affix the folded label using clear plastic shipping tape

3. **GETTING YOUR SHIPMENT TO UPS**
UPS locations include the UPS Store®, UPS drop boxes, UPS customer centers, authorized retail outlets and UPS drivers.
Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
Hand the package to any UPS driver in your area.
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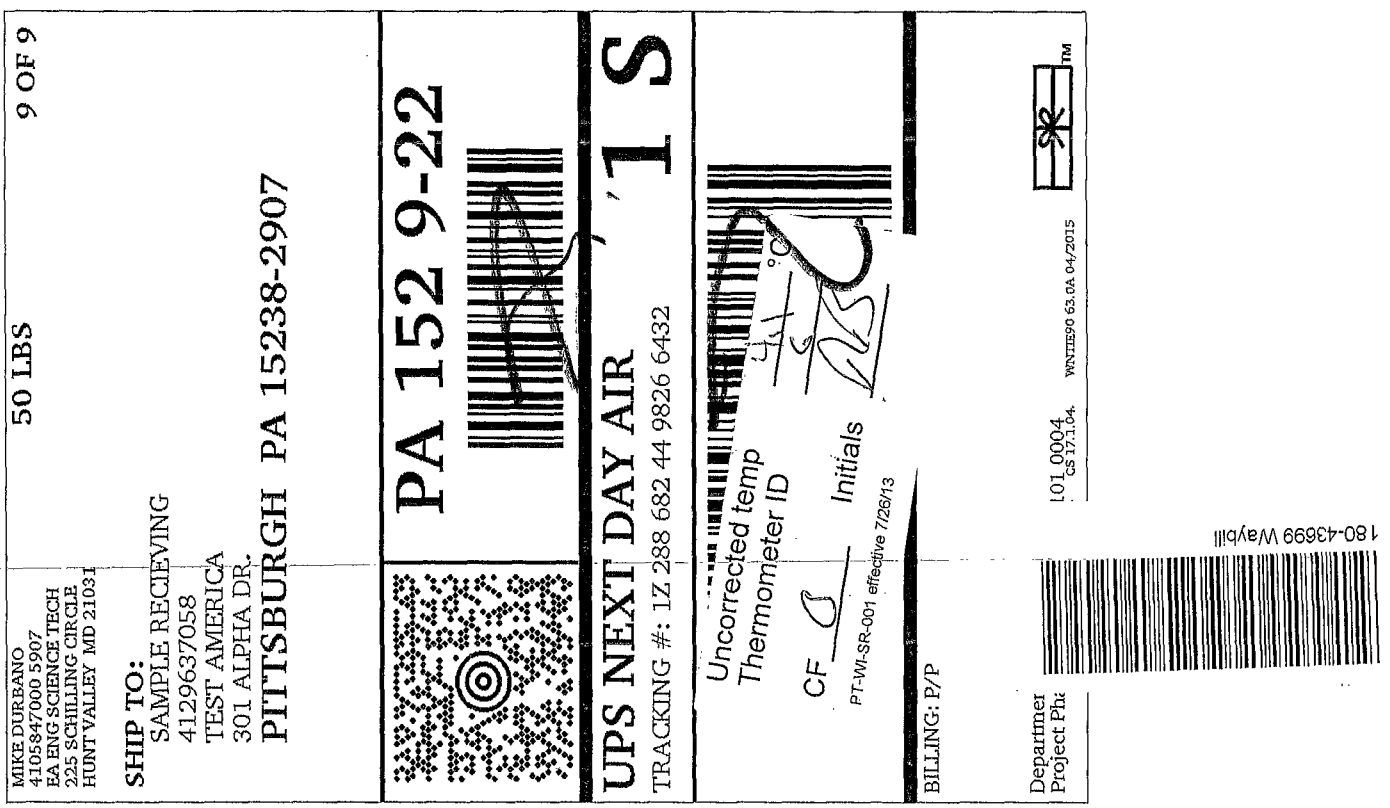
Customers with a Daily Pickup
Your driver will pickup your shipment(s) as usual.

FOLD HERE



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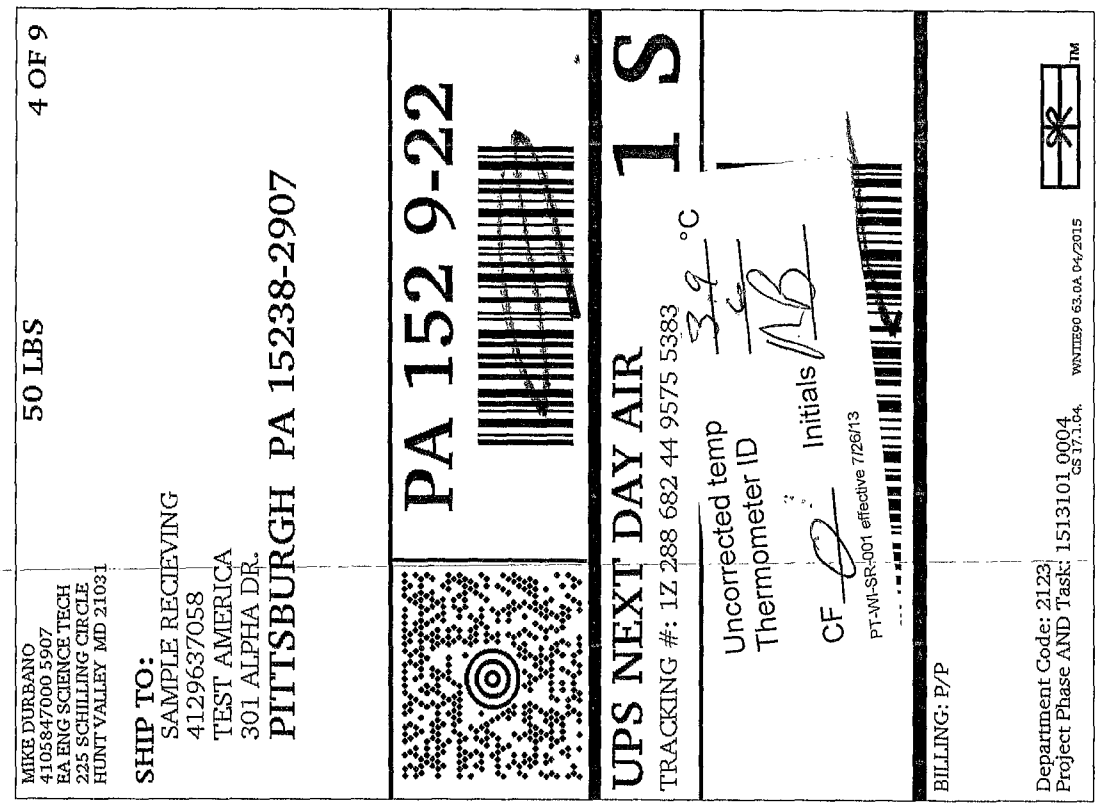

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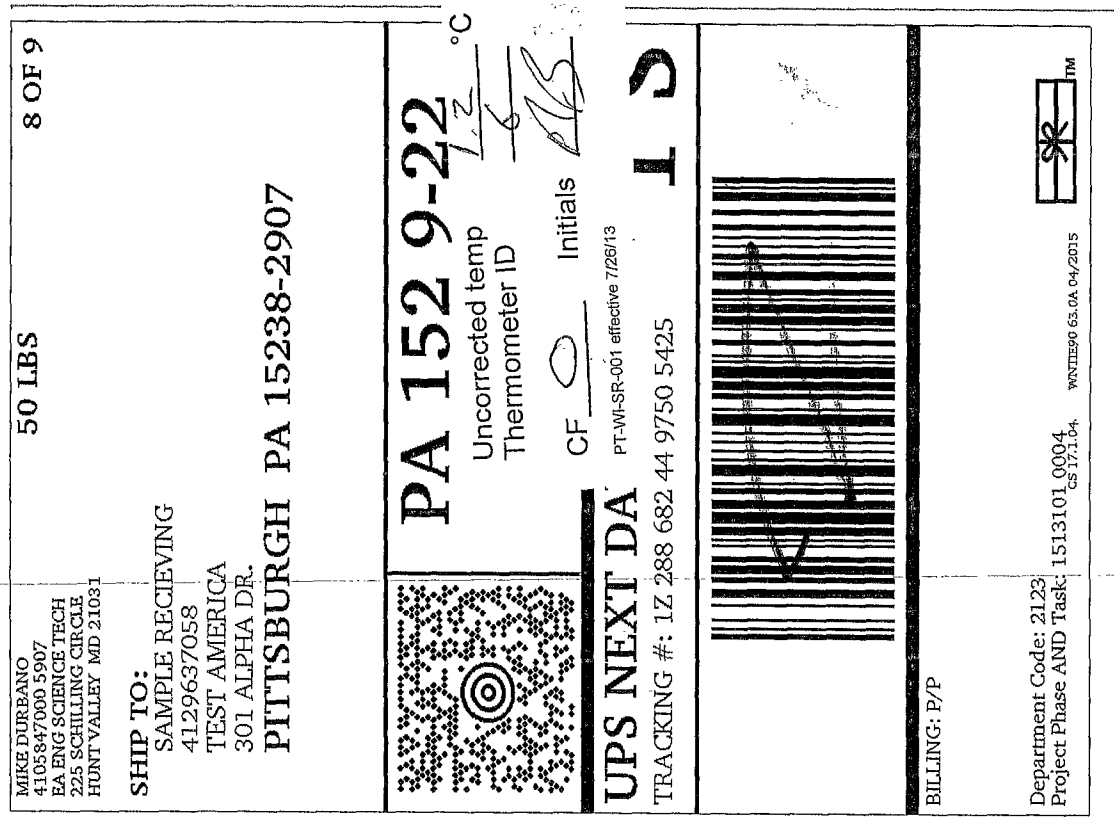

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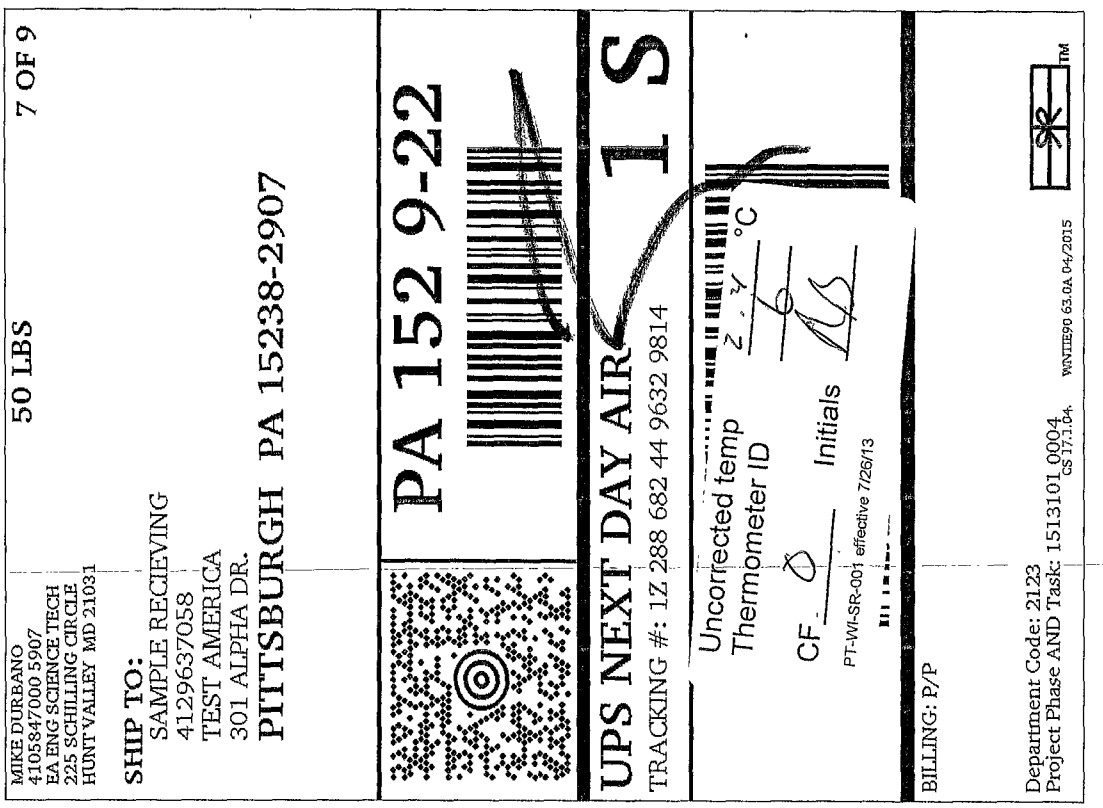

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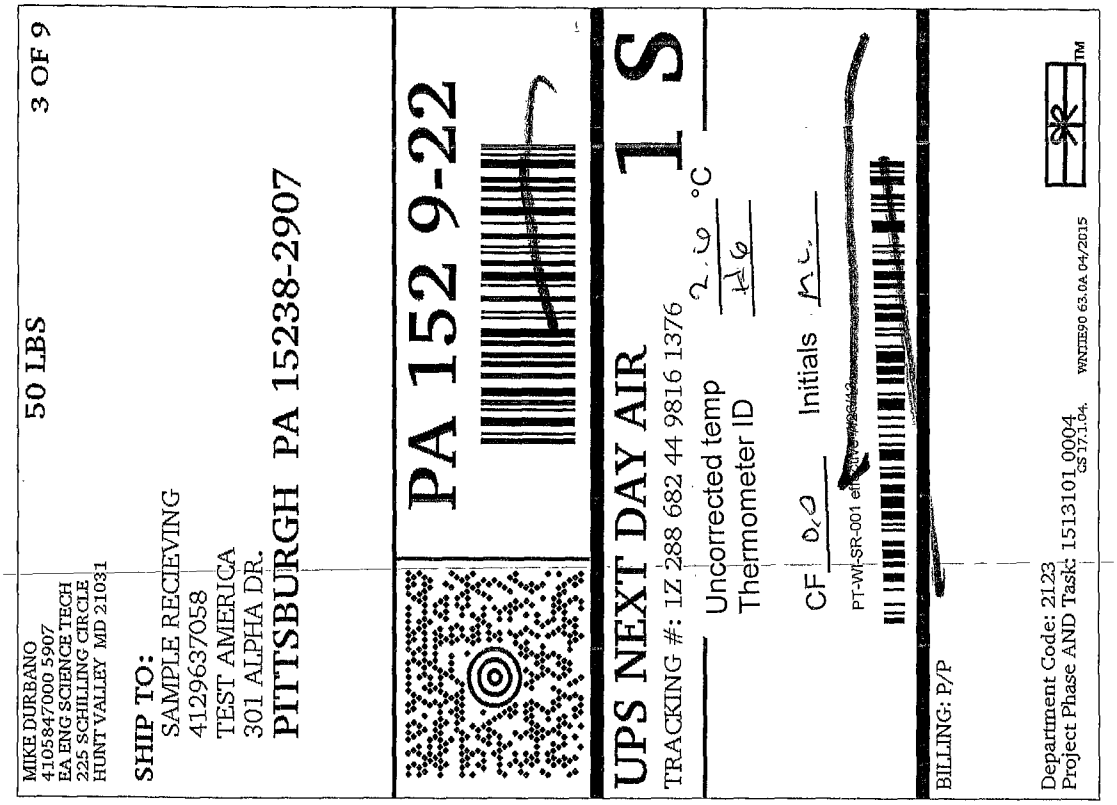

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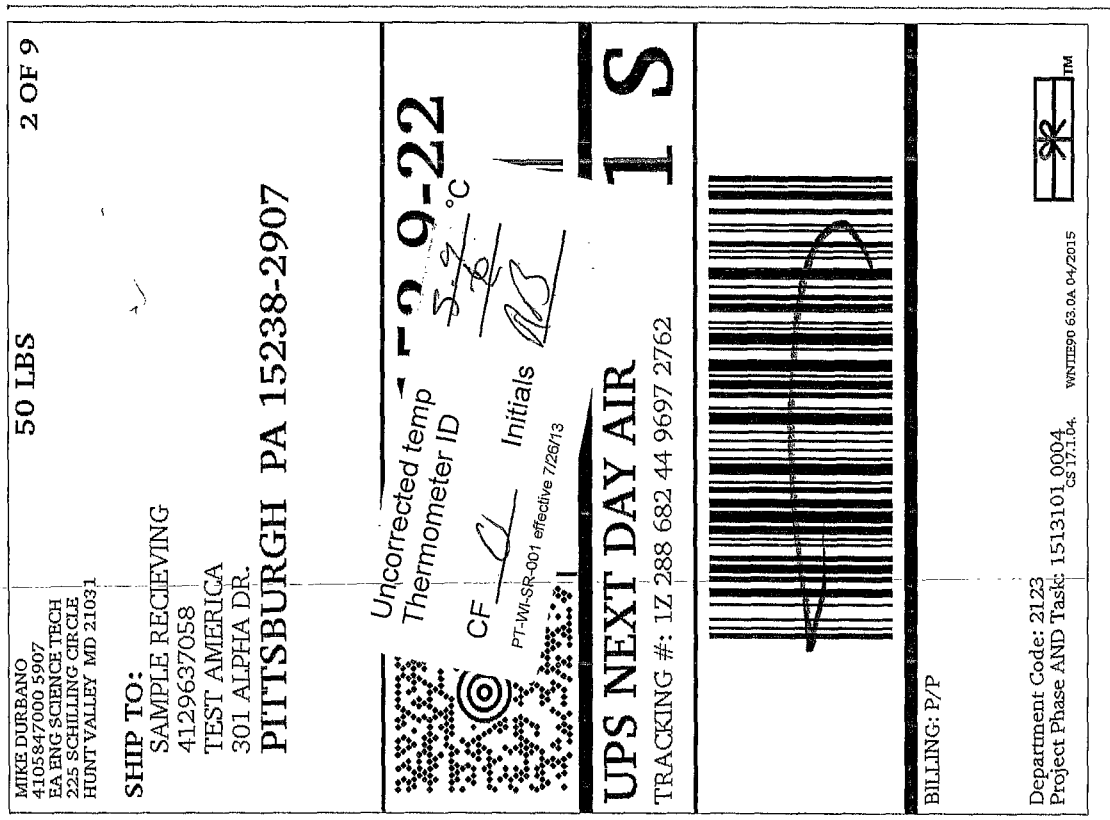

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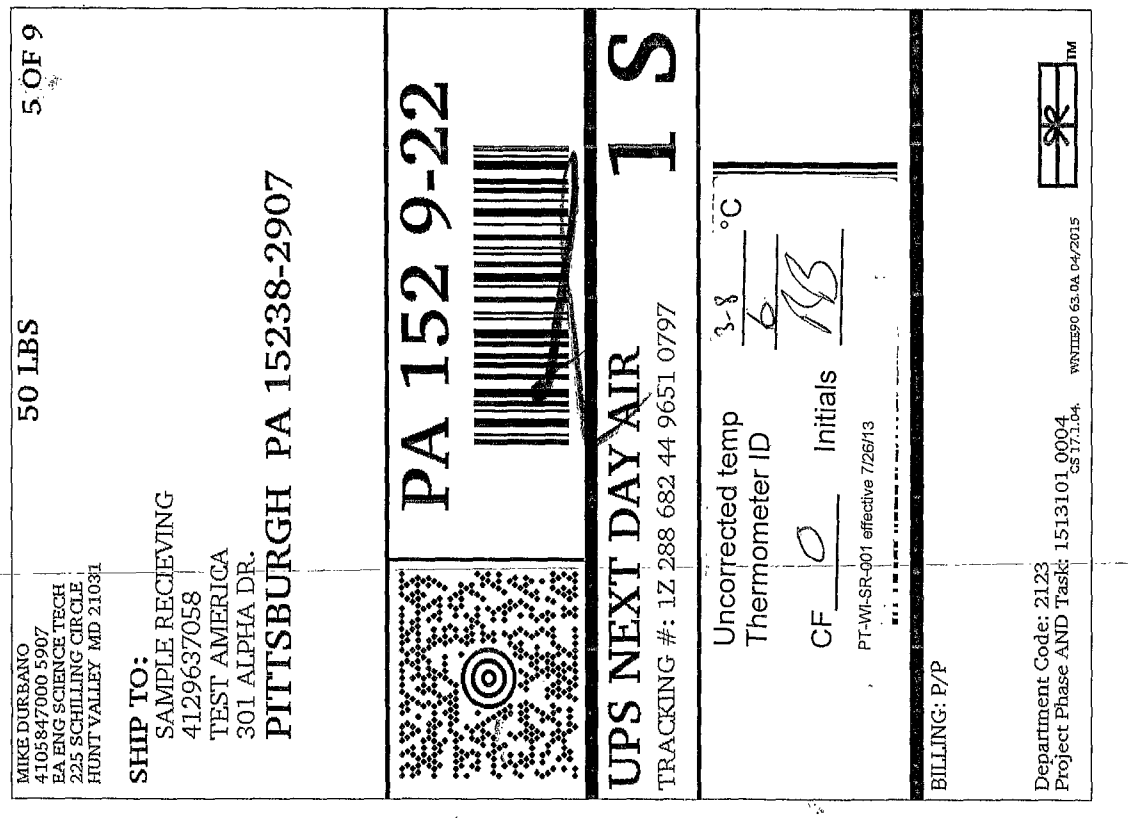

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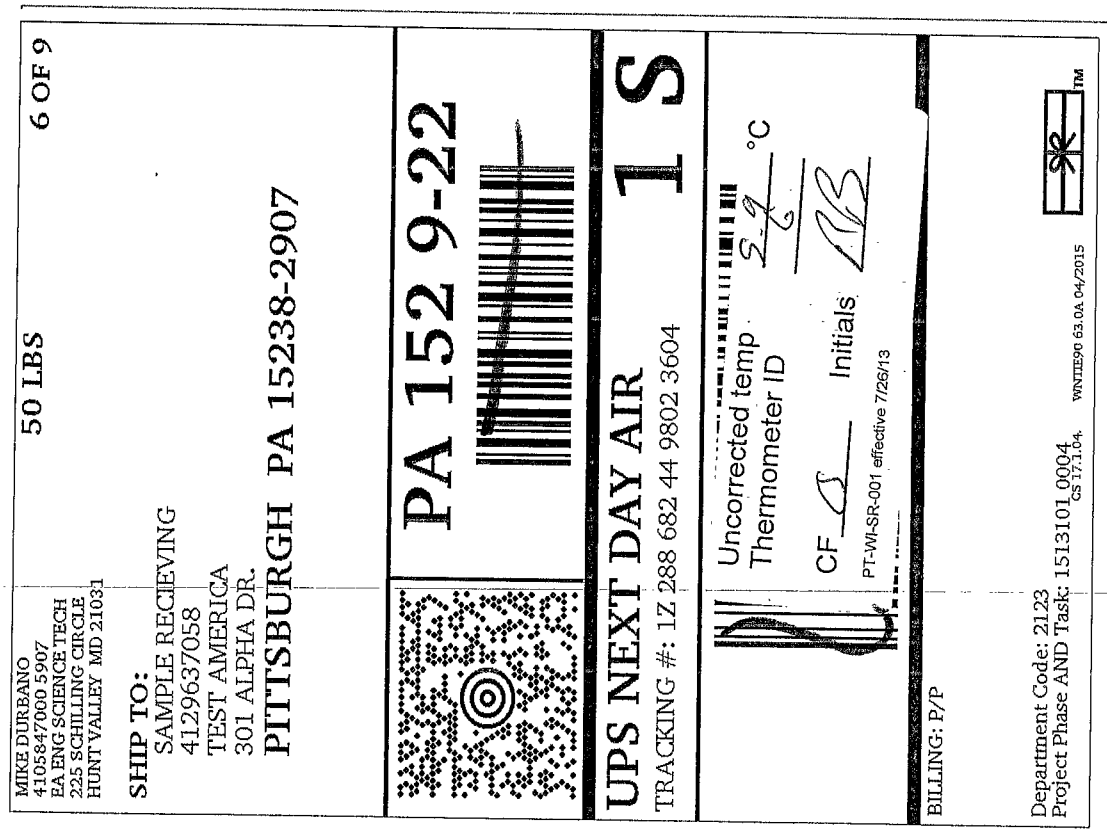

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 180-43702-1

Login Number: 43702
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time.	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

3.8/C4.3
3.4/C3.9
4.8/C2.3

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamber, Carrie L	Carrier Tracking No(s):	COC No: 180-197917.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: carrie.gamber@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 180-43702-1
Address: 4101 Shuffel Street NW, ,	Due Date Requested: 5/20/2015			Preservation Codes:
City: North Canton	TAT Requested (days):			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 - Na2S2SO3 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) Other:
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Sparrows Point Trust Offshore Investigat	Project #: 18013274			
Site:	SSOW#:			C1164

Sample Identification - Client ID (Lab ID)	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/MSD (Yes or No)	1664A/1664A_P_W HEM Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RB-01 (180-43702-1)	4/30/15	17:30 Eastern		Water			X	2	
FB-01 (180-43702-2)	4/30/15	17:45 Eastern		Water			X	2	
RB-02 (180-43702-3)	5/1/15	15:00 Eastern		Water			X	2	
FB-02 (180-43702-4)	5/1/15	15:15 Eastern		Water			X	2	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5/4/15			5/5/15 0910	TAL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative Login # : _____
Canton Facility

Client TA Pitt Site Name _____ Cooler unpacked by: [signature]

Cooler Received on 5/5/15 Opened on 5/5/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other SMER

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +4.0 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~

IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C ☒ See Multiple Cooler Form

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~

IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

2.	Were custody seals on the outside of the cooler(s)? If Yes Quantity (1 each)	Yes No
	-Were custody seals on the outside of the cooler(s) signed & dated?	Yes No NA
	-Were custody seals on the bottle(s)?	Yes No
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 sampler(s) 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.	Were sample(s) at the correct pH upon receipt?	Yes No NA pH Strip Lot# HC432654
12.	Were VOAs on the COC?	Yes No
13.	Were air bubbles >6 mm in any VOA vials?	Yes No NA
14.	Was a trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. 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)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica Multiple Cooler Receipt Form/Narrative Login # : _____
Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	4	3.8	4.3	TCF
↓	↓	3.4	3.9	↓
↓	↓	1.8	2.3	↓