TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 180-48259-1

Job Description: Harley Davidson

For:
Groundwater Sciences Corporation
2601 Market Place Street, Suite 310
Harrisburg, PA 17110-9307

Attention: Allan Miller

Approved for release.
Carrie L Gamber
Senior Project Manager
11/23/2015 11:57 AM

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11/23/2015
Revision: 1

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^c	CCV Recovery is outside acceptance limits.
E	Result exceeded calibration range.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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: Groundwater Sciences Corporation

Project: Harley Davidson

Report Number: 180-48259-1 REVISED

NOTE: This report has been revised to update the report formatting.

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 9/30/2015 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

VOLATILES
The following sample was diluted to bring the concentration of target analytes within the calibration range: HD-MW-113-0/1-0 (180-48259-1), HD-MW-127-0/1-0 (180-48259-2), and HD-MW-15-0/1-0 (180-48259-4). Elevated reporting limits (RLs) are provided.

The following analytes were outside the %D criteria but within the method criteria of the number of analytes allowed out: Bromomethane, 2-Hexanone, 1,1,1,2-Tetrachloroethane, Bromoform, Styrene, and Acrylonitrile. An LLCCV was analyzed and all analytes were found.

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

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48259-1

Client Sample ID: HD-MW-113-0/1-0 — Lab Sample ID: 180-48259-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	25		25	7.4	ug/L	25		8260C	Total/NA
1,1-Dichloroethane	6.2	J	25	2.9	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene	620		25	5.9	ug/L	25		8260C	Total/NA
1,1,1-Trichloroethane	15	J	25	7.2	ug/L	25		8260C	Total/NA
Trichloroethene	880		25	3.6	ug/L	25		8260C	Total/NA
Tetrachloroethene	31		25	3.7	ug/L	25		8260C	Total/NA
1,4-Dioxane	23		1.9	0.049	ug/L	1		8270D LL	Total/NA

Client Sample ID: HD-MW-127-0/1-0 — Lab Sample ID: 180-48259-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	5.7	J	10	3.0	ug/L	10		8260C	Total/NA
trans-1,2-Dichloroethene	1.8	J	10	1.7	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	3.2	J	10	1.2	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	290		10	2.4	ug/L	10		8260C	Total/NA
1,1,1-Trichloroethane	5.6	J	10	2.9	ug/L	10		8260C	Total/NA
Trichloroethene	190		10	1.4	ug/L	10		8260C	Total/NA
Tetrachloroethene	14		10	1.5	ug/L	10		8260C	Total/NA
1,4-Dioxane	6.8		1.9	0.049	ug/L	1		8270D LL	Total/NA

Client Sample ID: HD-MW-22-0/1-0 — Lab Sample ID: 180-48259-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.39	J	1.0	0.24	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	0.38	J	1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	13		1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-15-0/1-0 — Lab Sample ID: 180-48259-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	5.7		1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	210	E	1.0	0.15	ug/L	1		8260C	Total/NA
Trichloroethene - DL	4.3	J	13	1.8	ug/L	12.5		8260C	Total/NA
Tetrachloroethene - DL	210		13	1.9	ug/L	12.5		8260C	Total/NA

Client Sample ID: HD-QC11-0/1-2 — Lab Sample ID: 180-48259-5

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: HD-MW-113-0/1-0
Date Collected: 09/29/15 12:55
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	25	U	25	7.1	ug/L			10/05/15 20:12	25
Vinyl chloride	25	U	25	5.7	ug/L			10/05/15 20:12	25
Bromomethane	25	U	25	7.8	ug/L			10/05/15 20:12	25
Chloroethane	25	U	25	5.4	ug/L			10/05/15 20:12	25
1,1-Dichloroethene	**25**		25	7.4	ug/L			10/05/15 20:12	25
Acetone	130	U	130	63	ug/L			10/05/15 20:12	25
Carbon disulfide	25	U	25	5.3	ug/L			10/05/15 20:12	25
Methylene Chloride	25	U	25	3.1	ug/L			10/05/15 20:12	25
trans-1,2-Dichloroethene	25	U	25	4.2	ug/L			10/05/15 20:12	25
Methyl tert-butyl ether	25	U	25	4.6	ug/L			10/05/15 20:12	25
1,1-Dichloroethane	**6.2**	**J**	25	2.9	ug/L			10/05/15 20:12	25
cis-1,2-Dichloroethene	**620**		25	5.9	ug/L			10/05/15 20:12	25
Bromochloromethane	25	U	25	4.5	ug/L			10/05/15 20:12	25
2-Butanone (MEK)	130	U	130	14	ug/L			10/05/15 20:12	25
Chloroform	25	U	25	4.3	ug/L			10/05/15 20:12	25
1,1,1-Trichloroethane	**15**	**J**	25	7.2	ug/L			10/05/15 20:12	25
Carbon tetrachloride	25	U	25	3.4	ug/L			10/05/15 20:12	25
Benzene	25	U	25	2.6	ug/L			10/05/15 20:12	25
1,2-Dichloroethane	25	U	25	5.3	ug/L			10/05/15 20:12	25
Trichloroethene	**880**		25	3.6	ug/L			10/05/15 20:12	25
1,2-Dichloropropane	25	U	25	2.4	ug/L			10/05/15 20:12	25
Bromodichloromethane	25	U	25	3.3	ug/L			10/05/15 20:12	25
cis-1,3-Dichloropropene	25	U	25	4.7	ug/L			10/05/15 20:12	25
4-Methyl-2-pentanone (MIBK)	130	U	130	13	ug/L			10/05/15 20:12	25
Toluene	25	U	25	3.8	ug/L			10/05/15 20:12	25
trans-1,3-Dichloropropene	25	U	25	3.7	ug/L			10/05/15 20:12	25
1,1,2-Trichloroethane	25	U	25	5.0	ug/L			10/05/15 20:12	25
Tetrachloroethene	**31**		25	3.7	ug/L			10/05/15 20:12	25
2-Hexanone	130	U	130	4.0	ug/L			10/05/15 20:12	25
Dibromochloromethane	25	U	25	3.4	ug/L			10/05/15 20:12	25
1,2-Dibromoethane (EDB)	25	U	25	4.5	ug/L			10/05/15 20:12	25
Chlorobenzene	25	U	25	3.4	ug/L			10/05/15 20:12	25
1,1,1,2-Tetrachloroethane	25	U	25	6.9	ug/L			10/05/15 20:12	25
Ethylbenzene	25	U	25	5.7	ug/L			10/05/15 20:12	25
Xylenes, Total	75	U	75	12	ug/L			10/05/15 20:12	25
Styrene	25	U	25	2.4	ug/L			10/05/15 20:12	25
Bromoform	25	U	25	4.8	ug/L			10/05/15 20:12	25
1,1,2,2-Tetrachloroethane	25	U	25	5.0	ug/L			10/05/15 20:12	25
Acrylonitrile	500	U	500	14	ug/L			10/05/15 20:12	25
1,4-Dioxane	5000	U	5000	860	ug/L			10/05/15 20:12	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 135*		*10/05/15 20:12*	*25*
Toluene-d8 (Surr)	*98*		*71 - 118*		*10/05/15 20:12*	*25*
4-Bromofluorobenzene (Surr)	*87*		*70 - 118*		*10/05/15 20:12*	*25*
Dibromofluoromethane (Surr)	*111*		*70 - 128*		*10/05/15 20:12*	*25*

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

Client Sample ID: HD-MW-127-0/1-0
Date Collected: 09/29/15 15:32
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	10	U	10	2.8	ug/L			10/06/15 20:10	10
Vinyl chloride	10	U	10	2.3	ug/L			10/06/15 20:10	10
Bromomethane	10	U	10	3.1	ug/L			10/06/15 20:10	10
Chloroethane	10	U	10	2.1	ug/L			10/06/15 20:10	10
1,1-Dichloroethene	**5.7**	**J**	10	3.0	ug/L			10/06/15 20:10	10
Acetone	50	U ^c	50	25	ug/L			10/06/15 20:10	10
Carbon disulfide	10	U	10	2.1	ug/L			10/06/15 20:10	10
Methylene Chloride	10	U	10	1.3	ug/L			10/06/15 20:10	10
trans-1,2-Dichloroethene	**1.8**	**J**	10	1.7	ug/L			10/06/15 20:10	10
Methyl tert-butyl ether	10	U	10	1.8	ug/L			10/06/15 20:10	10
1,1-Dichloroethane	**3.2**	**J**	10	1.2	ug/L			10/06/15 20:10	10
cis-1,2-Dichloroethene	**290**		10	2.4	ug/L			10/06/15 20:10	10
Bromochloromethane	10	U	10	1.8	ug/L			10/06/15 20:10	10
2-Butanone (MEK)	50	U ^c	50	5.5	ug/L			10/06/15 20:10	10
Chloroform	10	U	10	1.7	ug/L			10/06/15 20:10	10
1,1,1-Trichloroethane	**5.6**	**J**	10	2.9	ug/L			10/06/15 20:10	10
Carbon tetrachloride	10	U	10	1.4	ug/L			10/06/15 20:10	10
Benzene	10	U	10	1.1	ug/L			10/06/15 20:10	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			10/06/15 20:10	10
Trichloroethene	**190**		10	1.4	ug/L			10/06/15 20:10	10
1,2-Dichloropropane	10	U	10	0.95	ug/L			10/06/15 20:10	10
Bromodichloromethane	10	U	10	1.3	ug/L			10/06/15 20:10	10
cis-1,3-Dichloropropene	10	U	10	1.9	ug/L			10/06/15 20:10	10
4-Methyl-2-pentanone (MIBK)	50	U	50	5.3	ug/L			10/06/15 20:10	10
Toluene	10	U	10	1.5	ug/L			10/06/15 20:10	10
trans-1,3-Dichloropropene	10	U	10	1.5	ug/L			10/06/15 20:10	10
1,1,2-Trichloroethane	10	U	10	2.0	ug/L			10/06/15 20:10	10
Tetrachloroethene	**14**		10	1.5	ug/L			10/06/15 20:10	10
2-Hexanone	50	U	50	1.6	ug/L			10/06/15 20:10	10
Dibromochloromethane	10	U	10	1.4	ug/L			10/06/15 20:10	10
1,2-Dibromoethane (EDB)	10	U	10	1.8	ug/L			10/06/15 20:10	10
Chlorobenzene	10	U	10	1.4	ug/L			10/06/15 20:10	10
1,1,1,2-Tetrachloroethane	10	U	10	2.8	ug/L			10/06/15 20:10	10
Ethylbenzene	10	U	10	2.3	ug/L			10/06/15 20:10	10
Xylenes, Total	30	U	30	4.9	ug/L			10/06/15 20:10	10
Styrene	10	U	10	0.97	ug/L			10/06/15 20:10	10
Bromoform	10	U	10	1.9	ug/L			10/06/15 20:10	10
1,1,2,2-Tetrachloroethane	10	U	10	2.0	ug/L			10/06/15 20:10	10
Acrylonitrile	200	U	200	5.5	ug/L			10/06/15 20:10	10
1,4-Dioxane	2000	U	2000	340	ug/L			10/06/15 20:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 135*		*10/06/15 20:10*	*10*
Toluene-d8 (Surr)	*95*		*71 - 118*		*10/06/15 20:10*	*10*
4-Bromofluorobenzene (Surr)	*87*		*70 - 118*		*10/06/15 20:10*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 128*		*10/06/15 20:10*	*10*

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

Client Sample ID: HD-MW-22-0/1-0
Date Collected: 09/29/15 10:00
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/06/15 23:00	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/06/15 23:00	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/06/15 23:00	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/06/15 23:00	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/06/15 23:00	1
Acetone	5.0	U ^c	5.0	2.5	ug/L			10/06/15 23:00	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/06/15 23:00	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/06/15 23:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/06/15 23:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/06/15 23:00	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/06/15 23:00	1
cis-1,2-Dichloroethene	**0.39**	**J**	1.0	0.24	ug/L			10/06/15 23:00	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/06/15 23:00	1
2-Butanone (MEK)	5.0	U ^c	5.0	0.55	ug/L			10/06/15 23:00	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/06/15 23:00	1
1,1,1-Trichloroethane	**0.38**	**J**	1.0	0.29	ug/L			10/06/15 23:00	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/06/15 23:00	1
Benzene	1.0	U	1.0	0.11	ug/L			10/06/15 23:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/06/15 23:00	1
Trichloroethene	**13**		1.0	0.14	ug/L			10/06/15 23:00	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/06/15 23:00	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/06/15 23:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/06/15 23:00	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/06/15 23:00	1
Toluene	1.0	U	1.0	0.15	ug/L			10/06/15 23:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/06/15 23:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/06/15 23:00	1
Tetrachloroethene	**13**		1.0	0.15	ug/L			10/06/15 23:00	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/06/15 23:00	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/06/15 23:00	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/06/15 23:00	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/06/15 23:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/06/15 23:00	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/06/15 23:00	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/06/15 23:00	1
Styrene	1.0	U	1.0	0.097	ug/L			10/06/15 23:00	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/06/15 23:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/06/15 23:00	1
Acrylonitrile	20	U	20	0.55	ug/L			10/06/15 23:00	1
1,4-Dioxane	200	U	200	34	ug/L			10/06/15 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*64 - 135*		*10/06/15 23:00*	*1*
Toluene-d8 (Surr)	*97*		*71 - 118*		*10/06/15 23:00*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 118*		*10/06/15 23:00*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 128*		*10/06/15 23:00*	*1*

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

Client Sample ID: HD-MW-15-0/1-0
Date Collected: 09/29/15 08:35
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/06/15 23:25	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/06/15 23:25	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/06/15 23:25	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/06/15 23:25	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/06/15 23:25	1
Acetone	5.0	U ^c	5.0	2.5	ug/L			10/06/15 23:25	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/06/15 23:25	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/06/15 23:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/06/15 23:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/06/15 23:25	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/06/15 23:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/06/15 23:25	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/06/15 23:25	1
2-Butanone (MEK)	5.0	U ^c	5.0	0.55	ug/L			10/06/15 23:25	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/06/15 23:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/06/15 23:25	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/06/15 23:25	1
Benzene	1.0	U	1.0	0.11	ug/L			10/06/15 23:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/06/15 23:25	1
Trichloroethene	**5.7**		1.0	0.14	ug/L			10/06/15 23:25	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/06/15 23:25	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/06/15 23:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/06/15 23:25	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/06/15 23:25	1
Toluene	1.0	U	1.0	0.15	ug/L			10/06/15 23:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/06/15 23:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/06/15 23:25	1
Tetrachloroethene	**210**	**E**	1.0	0.15	ug/L			10/06/15 23:25	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/06/15 23:25	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/06/15 23:25	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/06/15 23:25	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/06/15 23:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/06/15 23:25	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/06/15 23:25	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/06/15 23:25	1
Styrene	1.0	U	1.0	0.097	ug/L			10/06/15 23:25	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/06/15 23:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/06/15 23:25	1
Acrylonitrile	20	U	20	0.55	ug/L			10/06/15 23:25	1
1,4-Dioxane	200	U	200	34	ug/L			10/06/15 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 135*		*10/06/15 23:25*	*1*
Toluene-d8 (Surr)	*89*		*71 - 118*		*10/06/15 23:25*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 118*		*10/06/15 23:25*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 128*		*10/06/15 23:25*	*1*

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

Client Sample ID: HD-QC11-0/1-2
Date Collected: 09/29/15 12:00
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/06/15 19:45	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/06/15 19:45	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/06/15 19:45	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/06/15 19:45	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/06/15 19:45	1
Acetone	5.0	U ^c	5.0	2.5	ug/L			10/06/15 19:45	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/06/15 19:45	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/06/15 19:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/06/15 19:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/06/15 19:45	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/06/15 19:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/06/15 19:45	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/06/15 19:45	1
2-Butanone (MEK)	5.0	U ^c	5.0	0.55	ug/L			10/06/15 19:45	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/06/15 19:45	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/06/15 19:45	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/06/15 19:45	1
Benzene	1.0	U	1.0	0.11	ug/L			10/06/15 19:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/06/15 19:45	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/06/15 19:45	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/06/15 19:45	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/06/15 19:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/06/15 19:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/06/15 19:45	1
Toluene	1.0	U	1.0	0.15	ug/L			10/06/15 19:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/06/15 19:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/06/15 19:45	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/06/15 19:45	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/06/15 19:45	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/06/15 19:45	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/06/15 19:45	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/06/15 19:45	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/06/15 19:45	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/06/15 19:45	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/06/15 19:45	1
Styrene	1.0	U	1.0	0.097	ug/L			10/06/15 19:45	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/06/15 19:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/06/15 19:45	1
Acrylonitrile	20	U	20	0.55	ug/L			10/06/15 19:45	1
1,4-Dioxane	200	U	200	34	ug/L			10/06/15 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 135*		*10/06/15 19:45*	*1*
Toluene-d8 (Surr)	*100*		*71 - 118*		*10/06/15 19:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 118*		*10/06/15 19:45*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 128*		*10/06/15 19:45*	*1*

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

Client Sample ID: HD-MW-15-0/1-0
Date Collected: 09/29/15 08:35
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	13	U	13	3.5	ug/L			10/07/15 17:13	12.5
Vinyl chloride	13	U	13	2.8	ug/L			10/07/15 17:13	12.5
Bromomethane	13	U ^c	13	3.9	ug/L			10/07/15 17:13	12.5
Chloroethane	13	U	13	2.7	ug/L			10/07/15 17:13	12.5
1,1-Dichloroethene	13	U	13	3.7	ug/L			10/07/15 17:13	12.5
Acetone	63	U	63	31	ug/L			10/07/15 17:13	12.5
Carbon disulfide	13	U	13	2.7	ug/L			10/07/15 17:13	12.5
Methylene Chloride	13	U	13	1.6	ug/L			10/07/15 17:13	12.5
trans-1,2-Dichloroethene	13	U	13	2.1	ug/L			10/07/15 17:13	12.5
Methyl tert-butyl ether	13	U	13	2.3	ug/L			10/07/15 17:13	12.5
1,1-Dichloroethane	13	U	13	1.5	ug/L			10/07/15 17:13	12.5
cis-1,2-Dichloroethene	13	U	13	3.0	ug/L			10/07/15 17:13	12.5
Bromochloromethane	13	U	13	2.3	ug/L			10/07/15 17:13	12.5
2-Butanone (MEK)	63	U	63	6.8	ug/L			10/07/15 17:13	12.5
Chloroform	13	U	13	2.1	ug/L			10/07/15 17:13	12.5
1,1,1-Trichloroethane	13	U	13	3.6	ug/L			10/07/15 17:13	12.5
Carbon tetrachloride	13	U	13	1.7	ug/L			10/07/15 17:13	12.5
Benzene	13	U	13	1.3	ug/L			10/07/15 17:13	12.5
1,2-Dichloroethane	13	U	13	2.6	ug/L			10/07/15 17:13	12.5
Trichloroethene	**4.3**	**J**	13	1.8	ug/L			10/07/15 17:13	12.5
1,2-Dichloropropane	13	U	13	1.2	ug/L			10/07/15 17:13	12.5
Bromodichloromethane	13	U	13	1.6	ug/L			10/07/15 17:13	12.5
cis-1,3-Dichloropropene	13	U	13	2.3	ug/L			10/07/15 17:13	12.5
4-Methyl-2-pentanone (MIBK)	63	U	63	6.6	ug/L			10/07/15 17:13	12.5
Toluene	13	U	13	1.9	ug/L			10/07/15 17:13	12.5
trans-1,3-Dichloropropene	13	U	13	1.9	ug/L			10/07/15 17:13	12.5
1,1,2-Trichloroethane	13	U	13	2.5	ug/L			10/07/15 17:13	12.5
Tetrachloroethene	**210**		13	1.9	ug/L			10/07/15 17:13	12.5
2-Hexanone	63	U ^c	63	2.0	ug/L			10/07/15 17:13	12.5
Dibromochloromethane	13	U	13	1.7	ug/L			10/07/15 17:13	12.5
1,2-Dibromoethane (EDB)	13	U	13	2.3	ug/L			10/07/15 17:13	12.5
Chlorobenzene	13	U	13	1.7	ug/L			10/07/15 17:13	12.5
1,1,1,2-Tetrachloroethane	13	U ^c	13	3.5	ug/L			10/07/15 17:13	12.5
Ethylbenzene	13	U	13	2.8	ug/L			10/07/15 17:13	12.5
Xylenes, Total	38	U	38	6.1	ug/L			10/07/15 17:13	12.5
Styrene	13	U ^c	13	1.2	ug/L			10/07/15 17:13	12.5
Bromoform	13	U ^c	13	2.4	ug/L			10/07/15 17:13	12.5
1,1,2,2-Tetrachloroethane	13	U	13	2.5	ug/L			10/07/15 17:13	12.5
Acrylonitrile	250	U ^c	250	6.8	ug/L			10/07/15 17:13	12.5
1,4-Dioxane	2500	U ^c	2500	430	ug/L			10/07/15 17:13	12.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 135*		*10/07/15 17:13*	*12.5*
Toluene-d8 (Surr)	*99*		*71 - 118*		*10/07/15 17:13*	*12.5*
4-Bromofluorobenzene (Surr)	*82*		*70 - 118*		*10/07/15 17:13*	*12.5*
Dibromofluoromethane (Surr)	*96*		*70 - 128*		*10/07/15 17:13*	*12.5*

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

Client Sample ID: HD-MW-113-0/1-0
Date Collected: 09/29/15 12:55
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	23		1.9	0.049	ug/L		10/02/15 10:42	10/08/15 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*28 - 109*	*10/02/15 10:42*	*10/08/15 18:06*	*1*
2-Fluorophenol (Surr)	*62*		*20 - 105*	*10/02/15 10:42*	*10/08/15 18:06*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*30 - 118*	*10/02/15 10:42*	*10/08/15 18:06*	*1*
Nitrobenzene-d5 (Surr)	*80*		*27 - 114*	*10/02/15 10:42*	*10/08/15 18:06*	*1*
Phenol-d5 (Surr)	*70*		*25 - 105*	*10/02/15 10:42*	*10/08/15 18:06*	*1*
Terphenyl-d14 (Surr)	*90*		*20 - 118*	*10/02/15 10:42*	*10/08/15 18:06*	*1*

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

Client Sample ID: HD-MW-127-0/1-0
Date Collected: 09/29/15 15:32
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**6.8**		1.9	0.049	ug/L		10/02/15 10:42	10/08/15 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*28 - 109*	*10/02/15 10:42*	*10/08/15 18:32*	*1*
2-Fluorophenol (Surr)	*52*		*20 - 105*	*10/02/15 10:42*	*10/08/15 18:32*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*30 - 118*	*10/02/15 10:42*	*10/08/15 18:32*	*1*
Nitrobenzene-d5 (Surr)	*60*		*27 - 114*	*10/02/15 10:42*	*10/08/15 18:32*	*1*
Phenol-d5 (Surr)	*57*		*25 - 105*	*10/02/15 10:42*	*10/08/15 18:32*	*1*
Terphenyl-d14 (Surr)	*80*		*20 - 118*	*10/02/15 10:42*	*10/08/15 18:32*	*1*

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48259-1

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

Analyte	RL	MDL	Units	Method
1,1,1,2-Tetrachloroethane	1.0	0.28	ug/L	8260C
1,1,1-Trichloroethane	1.0	0.29	ug/L	8260C
1,1,2,2-Tetrachloroethane	1.0	0.20	ug/L	8260C
1,1,2-Trichloroethane	1.0	0.20	ug/L	8260C
1,1-Dichloroethane	1.0	0.12	ug/L	8260C
1,1-Dichloroethene	1.0	0.30	ug/L	8260C
1,2-Dibromoethane (EDB)	1.0	0.18	ug/L	8260C
1,2-Dichloroethane	1.0	0.21	ug/L	8260C
1,2-Dichloropropane	1.0	0.095	ug/L	8260C
1,4-Dioxane	200	34	ug/L	8260C
2-Butanone (MEK)	5.0	0.55	ug/L	8260C
2-Hexanone	5.0	0.16	ug/L	8260C
4-Methyl-2-pentanone (MIBK)	5.0	0.53	ug/L	8260C
Acetone	5.0	2.5	ug/L	8260C
Acrylonitrile	20	0.55	ug/L	8260C
Benzene	1.0	0.11	ug/L	8260C
Bromochloromethane	1.0	0.18	ug/L	8260C
Bromodichloromethane	1.0	0.13	ug/L	8260C
Bromoform	1.0	0.19	ug/L	8260C
Bromomethane	1.0	0.31	ug/L	8260C
Carbon disulfide	1.0	0.21	ug/L	8260C
Carbon tetrachloride	1.0	0.14	ug/L	8260C
Chlorobenzene	1.0	0.14	ug/L	8260C
Chloroethane	1.0	0.21	ug/L	8260C
Chloroform	1.0	0.17	ug/L	8260C
Chloromethane	1.0	0.28	ug/L	8260C
cis-1,2-Dichloroethene	1.0	0.24	ug/L	8260C
cis-1,3-Dichloropropene	1.0	0.19	ug/L	8260C
Dibromochloromethane	1.0	0.14	ug/L	8260C
Ethylbenzene	1.0	0.23	ug/L	8260C
Methyl tert-butyl ether	1.0	0.18	ug/L	8260C
Methylene Chloride	1.0	0.13	ug/L	8260C
Styrene	1.0	0.097	ug/L	8260C
Tetrachloroethene	1.0	0.15	ug/L	8260C
Toluene	1.0	0.15	ug/L	8260C
trans-1,2-Dichloroethene	1.0	0.17	ug/L	8260C
trans-1,3-Dichloropropene	1.0	0.15	ug/L	8260C
Trichloroethene	1.0	0.14	ug/L	8260C
Vinyl chloride	1.0	0.23	ug/L	8260C
Xylenes, Total	3.0	0.49	ug/L	8260C

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

Analyte	RL	MDL	Units	Method
1,4-Dioxane	2.0	0.052	ug/L	8270D LL

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48259-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(64-135)	(71-118)	(70-118)	(70-128)
180-48259-1	HD-MW-113-0/1-0	109	98	87	111
180-48259-2	HD-MW-127-0/1-0	108	95	87	111
180-48259-3	HD-MW-22-0/1-0	110	97	90	118
180-48259-4	HD-MW-15-0/1-0	107	89	87	111
180-48259-4 - DL	HD-MW-15-0/1-0	99	99	82	96
180-48259-5	HD-QC11-0/1-2	108	100	92	112
LCS 180-155869/7	Lab Control Sample	105	111	101	106
LCS 180-156041/8	Lab Control Sample	102	106	96	102
LCS 180-156189/8	Lab Control Sample	98	106	91	98
MB 180-155869/5	Method Blank	103	99	88	105
MB 180-156041/5	Method Blank	105	96	85	105
MB 180-156189/5	Method Blank	101	102	86	101

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(28-109)	(20-105)	(30-118)	(27-114)	(25-105)	(20-118)
180-48259-1	HD-MW-113-0/1-0	78	62	73	80	70	90
180-48259-2	HD-MW-127-0/1-0	60	52	73	60	57	80
LCS 180-155703/2-A	Lab Control Sample	64	62	68	67	62	66
MB 180-155703/1-A	Method Blank	65	63	68	68	64	69

Surrogate Legend

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

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

Lab Sample ID: MB 180-155869/5
Matrix: Water
Analysis Batch: 155869

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/05/15 11:25	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/05/15 11:25	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/05/15 11:25	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/05/15 11:25	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/05/15 11:25	1
Acetone	5.0	U	5.0	2.5	ug/L			10/05/15 11:25	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/05/15 11:25	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/05/15 11:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/05/15 11:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/05/15 11:25	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/05/15 11:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/05/15 11:25	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/05/15 11:25	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/05/15 11:25	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/05/15 11:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/05/15 11:25	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/05/15 11:25	1
Benzene	1.0	U	1.0	0.11	ug/L			10/05/15 11:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/05/15 11:25	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/05/15 11:25	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/05/15 11:25	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/05/15 11:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/05/15 11:25	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/05/15 11:25	1
Toluene	1.0	U	1.0	0.15	ug/L			10/05/15 11:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/05/15 11:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/05/15 11:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/05/15 11:25	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/05/15 11:25	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/05/15 11:25	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/05/15 11:25	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/05/15 11:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/05/15 11:25	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/05/15 11:25	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/05/15 11:25	1
Styrene	1.0	U	1.0	0.097	ug/L			10/05/15 11:25	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/05/15 11:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/05/15 11:25	1
Acrylonitrile	20	U	20	0.55	ug/L			10/05/15 11:25	1
1,4-Dioxane	200	U	200	34	ug/L			10/05/15 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 135*		*10/05/15 11:25*	*1*
Toluene-d8 (Surr)	*99*		*71 - 118*		*10/05/15 11:25*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 118*		*10/05/15 11:25*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 128*		*10/05/15 11:25*	*1*

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

Lab Sample ID: LCS 180-155869/7
Matrix: Water
Analysis Batch: 155869

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	12.9		ug/L		129	50 - 139
Vinyl chloride	10.0	10.9		ug/L		109	53 - 138
Bromomethane	10.0	8.96		ug/L		90	33 - 150
Chloroethane	10.0	10.8		ug/L		108	36 - 142
1,1-Dichloroethene	10.0	9.60		ug/L		96	65 - 136
Acetone	20.0	23.0		ug/L		115	22 - 150
Carbon disulfide	10.0	9.74		ug/L		97	54 - 132
Methylene Chloride	10.0	9.67		ug/L		97	63 - 129
trans-1,2-Dichloroethene	10.0	9.82		ug/L		98	73 - 126
Methyl tert-butyl ether	10.0	9.56		ug/L		96	64 - 123
1,1-Dichloroethane	10.0	10.7		ug/L		107	73 - 126
cis-1,2-Dichloroethene	10.0	9.33		ug/L		93	70 - 120
Bromochloromethane	10.0	11.1		ug/L		111	70 - 127
2-Butanone (MEK)	20.0	22.5		ug/L		113	39 - 138
Chloroform	10.0	9.92		ug/L		99	72 - 127
1,1,1-Trichloroethane	10.0	9.71		ug/L		97	63 - 133
Carbon tetrachloride	10.0	11.2		ug/L		112	55 - 150
Benzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.6		ug/L		106	68 - 132
Trichloroethene	10.0	11.7		ug/L		117	73 - 120
1,2-Dichloropropane	10.0	11.3		ug/L		113	76 - 124
Bromodichloromethane	10.0	9.91		ug/L		99	66 - 130
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	23.0		ug/L		115	45 - 145
Toluene	10.0	10.7		ug/L		107	80 - 123
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	65 - 125
1,1,2-Trichloroethane	10.0	10.8		ug/L		108	77 - 127
Tetrachloroethene	10.0	11.8		ug/L		118	70 - 135
2-Hexanone	20.0	25.9		ug/L		130	25 - 132
Dibromochloromethane	10.0	11.6		ug/L		116	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.8		ug/L		108	74 - 123
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.7		ug/L		117	63 - 140
Ethylbenzene	10.0	10.7		ug/L		107	72 - 126
Xylenes, Total	20.0	21.3		ug/L		107	76 - 128
Styrene	10.0	11.4		ug/L		114	71 - 127
Bromoform	10.0	12.6		ug/L		126	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.5		ug/L		105	62 - 125
Acrylonitrile	100	128		ug/L		128	30 - 140
1,4-Dioxane	200	207		ug/L		103	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 135*
Toluene-d8 (Surr)	*111*		*71 - 118*
4-Bromofluorobenzene (Surr)	*101*		*70 - 118*
Dibromofluoromethane (Surr)	*106*		*70 - 128*

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

Lab Sample ID: MB 180-156041/5
Matrix: Water
Analysis Batch: 156041

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/06/15 13:28	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/06/15 13:28	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/06/15 13:28	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/06/15 13:28	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/06/15 13:28	1
Acetone	5.0	U	5.0	2.5	ug/L			10/06/15 13:28	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/06/15 13:28	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/06/15 13:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/06/15 13:28	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/06/15 13:28	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/06/15 13:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/06/15 13:28	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/06/15 13:28	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/06/15 13:28	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/06/15 13:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/06/15 13:28	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/06/15 13:28	1
Benzene	1.0	U	1.0	0.11	ug/L			10/06/15 13:28	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/06/15 13:28	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/06/15 13:28	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/06/15 13:28	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/06/15 13:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/06/15 13:28	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/06/15 13:28	1
Toluene	1.0	U	1.0	0.15	ug/L			10/06/15 13:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/06/15 13:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/06/15 13:28	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/06/15 13:28	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/06/15 13:28	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/06/15 13:28	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/06/15 13:28	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/06/15 13:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/06/15 13:28	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/06/15 13:28	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/06/15 13:28	1
Styrene	1.0	U	1.0	0.097	ug/L			10/06/15 13:28	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/06/15 13:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/06/15 13:28	1
Acrylonitrile	20	U	20	0.55	ug/L			10/06/15 13:28	1
1,4-Dioxane	200	U	200	34	ug/L			10/06/15 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 135*		*10/06/15 13:28*	*1*
Toluene-d8 (Surr)	*96*		*71 - 118*		*10/06/15 13:28*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 118*		*10/06/15 13:28*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 128*		*10/06/15 13:28*	*1*

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

Lab Sample ID: LCS 180-156041/8
Matrix: Water
Analysis Batch: 156041

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	12.8		ug/L		128	50 - 139
Vinyl chloride	10.0	11.3		ug/L		113	53 - 138
Bromomethane	10.0	9.06		ug/L		91	33 - 150
Chloroethane	10.0	11.7		ug/L		117	36 - 142
1,1-Dichloroethene	10.0	10.2		ug/L		102	65 - 136
Acetone	20.0	23.5		ug/L		118	22 - 150
Carbon disulfide	10.0	9.60		ug/L		96	54 - 132
Methylene Chloride	10.0	10.6		ug/L		106	63 - 129
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	73 - 126
Methyl tert-butyl ether	10.0	9.83		ug/L		98	64 - 123
1,1-Dichloroethane	10.0	10.9		ug/L		109	73 - 126
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 120
Bromochloromethane	10.0	11.6		ug/L		116	70 - 127
2-Butanone (MEK)	20.0	26.2		ug/L		131	39 - 138
Chloroform	10.0	10.4		ug/L		104	72 - 127
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	63 - 133
Carbon tetrachloride	10.0	10.9		ug/L		109	55 - 150
Benzene	10.0	11.4		ug/L		114	80 - 120
1,2-Dichloroethane	10.0	10.6		ug/L		106	68 - 132
Trichloroethene	10.0	12.0		ug/L		120	73 - 120
1,2-Dichloropropane	10.0	12.0		ug/L		120	76 - 124
Bromodichloromethane	10.0	9.86		ug/L		99	66 - 130
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	22.0		ug/L		110	45 - 145
Toluene	10.0	10.8		ug/L		108	80 - 123
trans-1,3-Dichloropropene	10.0	9.72		ug/L		97	65 - 125
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	77 - 127
Tetrachloroethene	10.0	11.4		ug/L		114	70 - 135
2-Hexanone	20.0	22.7		ug/L		113	25 - 132
Dibromochloromethane	10.0	10.6		ug/L		106	60 - 140
1,2-Dibromoethane (EDB)	10.0	11.1		ug/L		111	74 - 123
Chlorobenzene	10.0	11.2		ug/L		112	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.5		ug/L		115	63 - 140
Ethylbenzene	10.0	10.9		ug/L		109	72 - 126
Xylenes, Total	20.0	21.6		ug/L		108	76 - 128
Styrene	10.0	11.6		ug/L		116	71 - 127
Bromoform	10.0	11.3		ug/L		113	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.6		ug/L		106	62 - 125
Acrylonitrile	100	138		ug/L		138	30 - 140
1,4-Dioxane	200	202		ug/L		101	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 135*
Toluene-d8 (Surr)	*106*		*71 - 118*
4-Bromofluorobenzene (Surr)	*96*		*70 - 118*
Dibromofluoromethane (Surr)	*102*		*70 - 128*

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

Lab Sample ID: MB 180-156189/5
Matrix: Water
Analysis Batch: 156189

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/07/15 14:07	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/07/15 14:07	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/07/15 14:07	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 14:07	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/07/15 14:07	1
Acetone	5.0	U	5.0	2.5	ug/L			10/07/15 14:07	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/07/15 14:07	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/07/15 14:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/07/15 14:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/07/15 14:07	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/07/15 14:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/15 14:07	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/07/15 14:07	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/07/15 14:07	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/07/15 14:07	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/07/15 14:07	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/07/15 14:07	1
Benzene	1.0	U	1.0	0.11	ug/L			10/07/15 14:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 14:07	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/07/15 14:07	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/07/15 14:07	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/07/15 14:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/07/15 14:07	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/07/15 14:07	1
Toluene	1.0	U	1.0	0.15	ug/L			10/07/15 14:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/07/15 14:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 14:07	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/07/15 14:07	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/07/15 14:07	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/07/15 14:07	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/07/15 14:07	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/07/15 14:07	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/07/15 14:07	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/07/15 14:07	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/07/15 14:07	1
Styrene	1.0	U	1.0	0.097	ug/L			10/07/15 14:07	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/07/15 14:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 14:07	1
Acrylonitrile	20	U	20	0.55	ug/L			10/07/15 14:07	1
1,4-Dioxane	200	U	200	34	ug/L			10/07/15 14:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 135*		*10/07/15 14:07*	*1*
Toluene-d8 (Surr)	*102*		*71 - 118*		*10/07/15 14:07*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 118*		*10/07/15 14:07*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 128*		*10/07/15 14:07*	*1*

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

Lab Sample ID: LCS 180-156189/8
Matrix: Water
Analysis Batch: 156189

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	11.3		ug/L		113	50 - 139
Vinyl chloride	10.0	9.97		ug/L		100	53 - 138
Bromomethane	10.0	8.04		ug/L		80	33 - 150
Chloroethane	10.0	8.97		ug/L		90	36 - 142
1,1-Dichloroethene	10.0	8.60		ug/L		86	65 - 136
Acetone	20.0	20.8		ug/L		104	22 - 150
Carbon disulfide	10.0	8.38		ug/L		84	54 - 132
Methylene Chloride	10.0	8.72		ug/L		87	63 - 129
trans-1,2-Dichloroethene	10.0	8.87		ug/L		89	73 - 126
Methyl tert-butyl ether	10.0	8.96		ug/L		90	64 - 123
1,1-Dichloroethane	10.0	9.57		ug/L		96	73 - 126
cis-1,2-Dichloroethene	10.0	8.99		ug/L		90	70 - 120
Bromochloromethane	10.0	10.0		ug/L		100	70 - 127
2-Butanone (MEK)	20.0	24.0		ug/L		120	39 - 138
Chloroform	10.0	8.87		ug/L		89	72 - 127
1,1,1-Trichloroethane	10.0	8.02		ug/L		80	63 - 133
Carbon tetrachloride	10.0	8.84		ug/L		88	55 - 150
Benzene	10.0	9.97		ug/L		100	80 - 120
1,2-Dichloroethane	10.0	9.18		ug/L		92	68 - 132
Trichloroethene	10.0	10.4		ug/L		104	73 - 120
1,2-Dichloropropane	10.0	10.7		ug/L		107	76 - 124
Bromodichloromethane	10.0	9.15		ug/L		92	66 - 130
cis-1,3-Dichloropropene	10.0	9.63		ug/L		96	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	20.8		ug/L		104	45 - 145
Toluene	10.0	10.1		ug/L		101	80 - 123
trans-1,3-Dichloropropene	10.0	8.94		ug/L		89	65 - 125
1,1,2-Trichloroethane	10.0	9.90		ug/L		99	77 - 127
Tetrachloroethene	10.0	10.2		ug/L		102	70 - 135
2-Hexanone	20.0	20.7		ug/L		103	25 - 132
Dibromochloromethane	10.0	9.99		ug/L		100	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.2		ug/L		102	74 - 123
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	10.0	10.2		ug/L		102	63 - 140
Ethylbenzene	10.0	9.50		ug/L		95	72 - 126
Xylenes, Total	20.0	19.1		ug/L		95	76 - 128
Styrene	10.0	10.5		ug/L		105	71 - 127
Bromoform	10.0	10.8		ug/L		108	46 - 150
1,1,2,2-Tetrachloroethane	10.0	9.90		ug/L		99	62 - 125
Acrylonitrile	100	125		ug/L		125	30 - 140
1,4-Dioxane	200	223		ug/L		111	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 135*
Toluene-d8 (Surr)	*106*		*71 - 118*
4-Bromofluorobenzene (Surr)	*91*		*70 - 118*
Dibromofluoromethane (Surr)	*98*		*70 - 128*

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

Lab Sample ID: MB 180-155703/1-A
Matrix: Water
Analysis Batch: 156303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.052	ug/L		10/02/15 10:42	10/08/15 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*28 - 109*	*10/02/15 10:42*	*10/08/15 11:33*	*1*
2-Fluorophenol (Surr)	*63*		*20 - 105*	*10/02/15 10:42*	*10/08/15 11:33*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*30 - 118*	*10/02/15 10:42*	*10/08/15 11:33*	*1*
Nitrobenzene-d5 (Surr)	*68*		*27 - 114*	*10/02/15 10:42*	*10/08/15 11:33*	*1*
Phenol-d5 (Surr)	*64*		*25 - 105*	*10/02/15 10:42*	*10/08/15 11:33*	*1*
Terphenyl-d14 (Surr)	*69*		*20 - 118*	*10/02/15 10:42*	*10/08/15 11:33*	*1*

Lab Sample ID: LCS 180-155703/2-A
Matrix: Water
Analysis Batch: 156303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155703

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			20.0	11.8		ug/L		59	36 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*28 - 109*
2-Fluorophenol (Surr)	*62*		*20 - 105*
2,4,6-Tribromophenol (Surr)	*68*		*30 - 118*
Nitrobenzene-d5 (Surr)	*67*		*27 - 114*
Phenol-d5 (Surr)	*62*		*25 - 105*
Terphenyl-d14 (Surr)	*66*		*20 - 118*

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48259-1

GC/MS VOA

Analysis Batch: 155869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48259-1	HD-MW-113-0/1-0	Total/NA	Water	8260C	
LCS 180-155869/7	Lab Control Sample	Total/NA	Water	8260C	
MB 180-155869/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 156041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48259-2	HD-MW-127-0/1-0	Total/NA	Water	8260C	
180-48259-3	HD-MW-22-0/1-0	Total/NA	Water	8260C	
180-48259-4	HD-MW-15-0/1-0	Total/NA	Water	8260C	
180-48259-5	HD-QC11-0/1-2	Total/NA	Water	8260C	
LCS 180-156041/8	Lab Control Sample	Total/NA	Water	8260C	
MB 180-156041/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 156189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48259-4 - DL	HD-MW-15-0/1-0	Total/NA	Water	8260C	
LCS 180-156189/8	Lab Control Sample	Total/NA	Water	8260C	
MB 180-156189/5	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 155703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48259-1	HD-MW-113-0/1-0	Total/NA	Water	3520C	
180-48259-2	HD-MW-127-0/1-0	Total/NA	Water	3520C	
LCS 180-155703/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 180-155703/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 156303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48259-1	HD-MW-113-0/1-0	Total/NA	Water	8270D LL	155703
180-48259-2	HD-MW-127-0/1-0	Total/NA	Water	8270D LL	155703
LCS 180-155703/2-A	Lab Control Sample	Total/NA	Water	8270D LL	155703
MB 180-155703/1-A	Method Blank	Total/NA	Water	8270D LL	155703

Client Sample ID: HD-MW-113-0/1-0
Date Collected: 09/29/15 12:55
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-1
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		25	5 mL	5 mL	155869	10/05/15 20:12	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Prep	3520C			270 mL	0.25 mL	155703	10/02/15 10:42	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	270 mL	0.25 mL	156303	10/08/15 18:06	VVP	TAL PIT
	Instrument ID: CH732									

Client Sample ID: HD-MW-127-0/1-0
Date Collected: 09/29/15 15:32
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-2
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		10	5 mL	5 mL	156041	10/06/15 20:10	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Prep	3520C			270 mL	0.25 mL	155703	10/02/15 10:42	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	270 mL	0.25 mL	156303	10/08/15 18:32	VVP	TAL PIT
	Instrument ID: CH732									

Client Sample ID: HD-MW-22-0/1-0
Date Collected: 09/29/15 10:00
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	156041	10/06/15 23:00	DLF	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: HD-MW-15-0/1-0
Date Collected: 09/29/15 08:35
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-4
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	8260C		1	5 mL	5 mL	156041	10/06/15 23:25	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Analysis	8260C	DL	12.5	5 mL	5 mL	156189	10/07/15 17:13	DLF	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: HD-QC11-0/1-2
Date Collected: 09/29/15 12:00
Date Received: 09/30/15 09:10

Lab Sample ID: 180-48259-5
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	156041	10/06/15 19:45	DLF	TAL PIT
	Instrument ID: CHHP6									

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

BJT = Bill Trout

Batch Type: Analysis

DLF = Donald Ferguson

VVP = Vincent Piccolino

Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48259-1

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Pennsylvania	NELAP	3	02-00416	04-30-16

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48259-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48259-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-48259-1	HD-MW-113-0/1-0	Water	09/29/15 12:55	09/30/15 09:10
180-48259-2	HD-MW-127-0/1-0	Water	09/29/15 15:32	09/30/15 09:10
180-48259-3	HD-MW-22-0/1-0	Water	09/29/15 10:00	09/30/15 09:10
180-48259-4	HD-MW-15-0/1-0	Water	09/29/15 08:35	09/30/15 09:10
180-48259-5	HD-QC11-0/1-2	Water	09/29/15 12:00	09/30/15 09:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 149469

Lab Sample ID: IC 180-149469/4 Client Sample ID:

Date Analyzed: 07/31/15 14:00 Lab File ID: 60731004.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.23	Incomplete Integration	fergusond	08/03/15 10:46
1,4-Dioxane	8.03	Incomplete Integration	fergusond	08/03/15 10:46

Lab Sample ID: ICIS 180-149469/5 Client Sample ID:

Date Analyzed: 07/31/15 14:24 Lab File ID: 60731005.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:47

Lab Sample ID: IC 180-149469/7 Client Sample ID:

Date Analyzed: 07/31/15 15:13 Lab File ID: 60731007.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:27

Lab Sample ID: IC 180-149469/8 Client Sample ID:

Date Analyzed: 07/31/15 15:37 Lab File ID: 60731008.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:13

Lab Sample ID: IC 180-149469/9 Client Sample ID:

Date Analyzed: 07/31/15 16:01 Lab File ID: 60731009.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 149469

Lab Sample ID: IC 180-149469/10 Client Sample ID:

Date Analyzed: 07/31/15 16:25 Lab File ID: 60731010.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:08

Lab Sample ID: IC 180-149469/14 Client Sample ID:

Date Analyzed: 07/31/15 18:02 Lab File ID: 60731014.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.68	Poor chromatography	fergusond	08/03/15 11:05
Acetone	3.42	Poor chromatography	fergusond	08/03/15 11:05
Acrylonitrile	4.51	Poor chromatography	fergusond	08/03/15 11:05
1,1,1-Trichloroethane	6.55	Poor chromatography	fergusond	08/03/15 11:05
Isobutyl alcohol	6.90	Poor chromatography	fergusond	08/03/15 11:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 155869

Lab Sample ID: CCVIS 180-155869/2 Client Sample ID:

Date Analyzed: 10/05/15 10:05 Lab File ID: 61005002.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.02	Incomplete Integration	fergusond	10/05/15 10:27

Lab Sample ID: 180-48259-1 Client Sample ID: HD-MW-113-0/1-0

Date Analyzed: 10/05/15 20:12 Lab File ID: 61005026.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	5.19	Missed Peak	fergusond	10/06/15 09:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 156041

Lab Sample ID: CCVIS 180-156041/2 Client Sample ID:

Date Analyzed: 10/06/15 12:10 Lab File ID: 61006002.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Incomplete Integration	fergusond	10/06/15 12:46

Lab Sample ID: 180-48259-2 Client Sample ID: HD-MW-127-0/1-0

Date Analyzed: 10/06/15 20:10 Lab File ID: 61006021.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	5.21	Missed Peak	fergusond	10/07/15 09:07

Lab Sample ID: 180-48259-3 Client Sample ID: HD-MW-22-0/1-0

Date Analyzed: 10/06/15 23:00 Lab File ID: 61006028.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.35	Incomplete Integration	fergusond	10/07/15 09:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 156189

Lab Sample ID: LCS 180-156189/8 Client Sample ID:

Date Analyzed: 10/07/15 15:36 Lab File ID: 61007008.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Incomplete Integration	fergusond	10/07/15 15:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CH732 Analysis Batch Number: 151940

Lab Sample ID: IC 180-151940/3 Client Sample ID:

Date Analyzed: 08/27/15 05:25 Lab File ID: D08270003.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.51	Poor chromatography	piccolinov	08/27/15 07:32
N-Nitrosodimethylamine	2.08	Poor chromatography	piccolinov	08/27/15 07:32
Pyridine	2.18	Poor chromatography	piccolinov	08/27/15 07:32
Phenol	5.76	Poor chromatography	piccolinov	08/27/15 07:32
Aniline	5.79	Poor chromatography	piccolinov	08/27/15 07:32
Di-n-octyl phthalate	15.50	Poor chromatography	piccolinov	08/27/15 07:32
7,12-Dimethylbenz(a)anthracene	16.31	Poor chromatography	piccolinov	08/27/15 07:32
Benzo[b]fluoranthene	16.33	Poor chromatography	piccolinov	08/27/15 07:32
Benzo[k]fluoranthene	16.38	Poor chromatography	piccolinov	08/27/15 07:32
Benzo[a]pyrene	16.99	Poor chromatography	piccolinov	08/27/15 07:32
Indeno[1,2,3-cd]pyrene	19.40	Poor chromatography	piccolinov	08/27/15 07:32
Dibenz(a,h)anthracene	19.42	Poor chromatography	piccolinov	08/27/15 07:32
Benzo[g,h,i]perylene	20.05	Poor chromatography	piccolinov	08/27/15 07:32

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CH732 Analysis Batch Number: 151940

Lab Sample ID: IC 180-151940/4 Client Sample ID:

Date Analyzed: 08/27/15 05:51 Lab File ID: D08270004.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.48	Poor chromatography	piccolinov	08/27/15 07:33
Indeno[1,2,3-cd]pyrene	19.43	Poor chromatography	piccolinov	08/27/15 09:21
Dibenz(a,h)anthracene	19.46	Poor chromatography	piccolinov	08/27/15 09:21

Lab Sample ID: IC 180-151940/5 Client Sample ID:

Date Analyzed: 08/27/15 06:18 Lab File ID: D08270005.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.11	Poor chromatography	piccolinov	08/27/15 07:36
3,3'-Dichlorobenzidine	14.18	Poor chromatography	piccolinov	08/27/15 07:36
Indeno[1,2,3-cd]pyrene	19.45	Poor chromatography	piccolinov	08/27/15 09:22
Dibenz(a,h)anthracene	19.48	Poor chromatography	piccolinov	08/27/15 09:22

Lab Sample ID: ICIS 180-151940/6 Client Sample ID:

Date Analyzed: 08/27/15 06:44 Lab File ID: D08270006.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	19.45	Poor chromatography	piccolinov	08/27/15 09:23
Dibenz(a,h)anthracene	19.48	Poor chromatography	piccolinov	08/27/15 09:23

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
OPLVISPKMIX1i_00044	03/23/16	09/23/15	Methanol, Lot 0000082533	100 mL	SVLVstd1_00036	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	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00036	09/30/16		Restek, Lot A0109703		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

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
							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
							Benzidine	2000 ug/mL
OPQL8270SURi_00034	03/09/16	09/09/15	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

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
SVTAPITINTRNi_00009	09/09/16	09/09/15	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00003	5 mL	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_00003	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
SVTAPSTD0.4i_00009	11/07/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	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_00006	5 uL	Benzo[e]pyrene	0.2 ug/mL
							2,3,5,6-Tetrachlorophenol	0.2 ug/mL
							2-Naphthylamine	0.2 ug/mL
							7,12-Dimethylbenz(a)anthracene	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	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-Dichlorophenol	0.2 ug/mL
							2,6-Dinitrotoluene	0.2 ug/mL
							2-Chloronaphthalene	0.2 ug/mL
							2-Chlorophenol	0.2 ug/mL
							2-Methylnaphthalene	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							N-Nitrosodimethylamine	0.2 ug/mL
							N-Nitrosodiphenylamine	0.4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Benzoic acid	0.2 ug/mL
							Indene	0.2 ug/mL
							Atrazine	0.2 ug/mL
							Benzaldehyde	0.2 ug/mL
							Caprolactam	0.2 ug/mL
							3,3'-Dichlorobenzidine	0.2 ug/mL
							Benzidine	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
							Methyl methanesulfonate	0.2 ug/mL
							N-Nitrosopyrrolidine	0.2 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	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_00004	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_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	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	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 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
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	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
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	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
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	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	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	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
..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
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	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
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00123	08/27/15	08/20/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	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_00006	125 uL	Benzo[e]pyrene	5 ug/mL
							2,3,5,6-Tetrachlorophenol	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Naphthylamine	5 ug/mL
							7,12-Dimethylbenz(a)anthracene	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	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-Dichlorophenol	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

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
							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-Nitrosodiphenylamine	10 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
							Benzoic acid	5 ug/mL
							Indene	5 ug/mL
							Atrazine	5 ug/mL
							Benzaldehyde	5 ug/mL
							Caprolactam	5 ug/mL
							3,3'-Dichlorobenzidine	5 ug/mL
							Benzidine	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
							Methyl methanesulfonate	5 ug/mL
							N-Nitrosopyrrolidine	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	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_00004	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_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	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	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitrosodiphenylamine	80 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
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	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
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	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
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	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	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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	1000 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
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	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
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00129	10/14/15	10/07/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	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
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	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_00004	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
SVTAPSTD10i_00129	10/14/15	10/07/15	MeCl2, Lot 1417620	1 mL	SVTAPITSTCKi_00006	125 uL	1,4-Dioxane	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_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	SVLVstd1_00032	800 uL	1,4-Dioxane	40 ug/mL
					SVLVSURRSPK_00014	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	40 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..SVLVSURRSPK_00014	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
SVTAPSTD2.0i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	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_00006	25 uL	Benzo[e]pyrene	1 ug/mL
							2,3,5,6-Tetrachlorophenol	1 ug/mL
							2-Naphthylamine	1 ug/mL
							7,12-Dimethylbenz(a)anthracene	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	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	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
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	2 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	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
							Methyl methanesulfonate	1 ug/mL
							N-Nitrosopyrrolidine	1 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	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_00004	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_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	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	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 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
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	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
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	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
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	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	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	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
..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
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	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
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD20i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	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_00006	250 uL	Benzo[e]pyrene	10 ug/mL
							2,3,5,6-Tetrachlorophenol	10 ug/mL
							2-Naphthylamine	10 ug/mL
							7,12-Dimethylbenz(a)anthracene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	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-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3-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
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Hexadecane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	20 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
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							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
							Methyl methanesulfonate	10 ug/mL
							N-Nitrosopyrrolidine	10 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SVLVIntstd_00004	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_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	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	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 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
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SVLVSURRSPK_00014	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
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	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
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	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	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-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.: 180-48259-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	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
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD4.0i_00008	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	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_00006	50 uL	Benzo[e]pyrene	2 ug/mL
							2,3,5,6-Tetrachlorophenol	2 ug/mL
							2-Naphthylamine	2 ug/mL
							7,12-Dimethylbenz(a)anthracene	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	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
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3-Nitroaniline	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

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	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
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Hexadecane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	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
							Methyl methanesulfonate	2 ug/mL
							N-Nitrosopyrrolidine	2 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	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_00004	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_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	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	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 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
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	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
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	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
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	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	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	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
..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
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	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
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD40i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	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_00006	500 uL	Benzo[e]pyrene	20 ug/mL
							2,3,5,6-Tetrachlorophenol	20 ug/mL
							2-Naphthylamine	20 ug/mL
							7,12-Dimethylbenz(a)anthracene	20 ug/mL
							1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	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-Dichlorophenol	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Nitrosodiphenylamine	40 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
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Caprolactam	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	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
							Methyl methanesulfonate	20 ug/mL
							N-Nitrosopyrrolidine	20 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	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_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	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	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 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
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	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
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	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
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	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	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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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
..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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	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
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD60i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	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_00006	750 uL	Benzo[e]pyrene	30 ug/mL
							2,3,5,6-Tetrachlorophenol	30 ug/mL
							2-Naphthylamine	30 ug/mL
							7,12-Dimethylbenz(a)anthracene	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	30 ug/mL
							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-Dichlorophenol	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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-Nitrosodiphenylamine	60 ug/mL
							n-Octadecane	30 ug/mL
							Naphthalene	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	30 ug/mL
							Pentachlorophenol	60 ug/mL
							Phenanthrene	30 ug/mL
							Phenol	30 ug/mL
							Pyrene	30 ug/mL
							Pyridine	30 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							Atrazine	30 ug/mL
							Benzaldehyde	30 ug/mL
							Caprolactam	30 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	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
							Methyl methanesulfonate	30 ug/mL
							N-Nitrosopyrrolidine	30 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	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_00004	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_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	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	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.: 180-48259-1

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-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 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
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	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
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	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
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	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	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

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-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
..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
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	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
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD80i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	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_00006	1000 uL	Benzo[e]pyrene	40 ug/mL
							2,3,5,6-Tetrachlorophenol	40 ug/mL
							2-Naphthylamine	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 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
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	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
							Methyl methanesulfonate	40 ug/mL
							N-Nitrosopyrrolidine	40 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	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_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	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	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 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
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	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
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	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
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	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	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-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	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
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
VOA8260INT_00039	08/02/15	07/02/15	Methanol, Lot 85233	10 mL	VOA8260INTRES_00067	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_00067	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
VOA8260INT_00042	10/11/15	09/11/15	Methanol, Lot 99494	10 mL	VOA8260INTRES_00068	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_00068	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_00039	08/02/15	07/02/15	Methanol, Lot 85233	100 mL	VOA8260SURRES_00066	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_00066	01/31/19		Restek, Lot A0100424		(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_00042	10/11/15	09/11/15	Methanol, Lot 99494	100 mL	VOA8260SURRES_00077	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_00077	01/31/19		Restek, Lot A0101000		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOA8260VOA2ND_00146	10/09/15	10/02/15	Methanol, Lot 99494	10 mL	VOA8260GAS2ND_00115	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOA2ND_00145	1 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-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane (EDB)	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,4-Dioxane	500 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							Styrene	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
							Xylenes, Total	50 ug/mL
.VOA8260GAS2ND_00115	04/30/18		Restek, Lot A0111273		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOA2ND_00145	10/25/15	09/25/15	Methanol, Lot 99494	10 mL	VOA8260MEGA2_00037	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichloroethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylene Chloride	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
..VOA8260MEGA2_00037	01/31/17		Restek, Lot A0108163		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VOA8260VOAPRI_00134	08/03/15	07/27/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00110	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_00129	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-Dibromoethane (EDB)	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	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
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	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
							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_00110	04/30/18		Restek, Lot A011070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00129	08/07/15	07/07/15	Methanol, Lot 85233	10 mL	VOA8260KET1ST_00047	0.2 mL	2-Butanone (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
					VOA8260MEGA1_00030	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,1-Dichloropropene	250 ug/mL
							1,2,3-Trichlorobenzene	250 ug/mL
							1,2,3-Trichloropropane	250 ug/mL
							1,2,4-Trichlorobenzene	250 ug/mL
							1,2,4-Trimethylbenzene	250 ug/mL
							1,2-Dibromo-3-Chloropropane	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichlorobenzene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,3,5-Trimethylbenzene	250 ug/mL
							1,3-Dichlorobenzene	250 ug/mL
							1,3-Dichloropropane	250 ug/mL
							1,4-Dichlorobenzene	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							2,2-Dichloropropane	250 ug/mL
							2-Chlorotoluene	250 ug/mL
							2-Methyl-2-propanol	2500 ug/mL
							3-Chloro-1-propene	250 ug/mL
							4-Chlorotoluene	250 ug/mL
							4-Isopropyltoluene	250 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromobenzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	250 ug/mL
							Cyclohexane	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Dibromomethane	250 ug/mL
							Ethyl ether	250 ug/mL
							Ethyl methacrylate	250 ug/mL
							Ethylbenzene	250 ug/mL
							Hexachlorobutadiene	250 ug/mL
							Hexane	250 ug/mL
							Iodomethane	250 ug/mL
							Isobutyl alcohol	6250 ug/mL
							Isopropylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methyl acetate	1250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylcyclohexane	250 ug/mL
							Methylene Chloride	250 ug/mL
							n-Butylbenzene	250 ug/mL
							n-Heptane	250 ug/mL
							N-Propylbenzene	250 ug/mL
							Naphthalene	250 ug/mL
							o-Xylene	250 ug/mL
							sec-Butylbenzene	250 ug/mL
							Styrene	250 ug/mL
							tert-Butylbenzene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							trans-1,4-Dichloro-2-butene	250 ug/mL
							Trichloroethene	250 ug/mL
..VOA8260KET1ST_00047	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VOA8260MEGA1_00030	02/28/16		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VOA8260VOAPRI_00147	10/09/15	10/02/15	Methanol, Lot 99494	10 mL	VOA8260GAS1ST_00118	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00146	1 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-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane (EDB)	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,4-Dioxane	500 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							Styrene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Xylenes, Total	50 ug/mL
.VOA8260GAS1ST_00118	04/30/18		Restek, Lot A0110070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00146	10/25/15	09/25/15	Methanol, Lot 99494	10 mL	VOA8260MEGA1_00034	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylene Chloride	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
..VOA8260MEGA1_00034	02/28/16		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Acrylonitrile	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
voaWAcro2nd R_00006	08/07/15	07/07/15	Methanol, Lot 85233	100 mL	VOAACRRES2ND_00065	0.125 mL	Acrolein	25 ug/mL
.VOAACRRES2ND_00065	09/30/15		Restek, Lot A0111005		(Purchased Reagent)		Acrolein	20000 ug/mL
voaWeemix1Res_00001	08/20/15	07/20/15	Methanol, Lot 85233	25 mL	VOARESEE1ST_00025	0.125 mL	1,2-dichloro-4-(trifluoromethyl)benzene	25 ug/mL
							2,3,6-Trichlorotoluene	25 ug/mL
							2,3- & 3,4- Dichlorotoluene	50 ug/mL
							2,4,5-Trichlorotoluene	25 ug/mL
							2,4- & 2,5- & 2,6-Dichlorotoluene	75 ug/mL
							2,4-Dichloro-1-(triflouromethyl)-benzene	25 ug/mL
							2,5-Dichlorobenzotrifluoride	25 ug/mL
							2-Chlorobenzotrifluoride	25 ug/mL
							3-Chlorobenzotrifluoride	25 ug/mL
							3-Chlorotoluene	25 ug/mL
							4-Chlorobenzotrifluoride	25 ug/mL
.VOARESEE1ST_00025	09/30/16		Restek, Lot A0109701		(Purchased Reagent)		1,2-dichloro-4-(trifluoromethyl)benzene	5000 ug/mL
							2,3,6-Trichlorotoluene	5000 ug/mL
							2,3- & 3,4- Dichlorotoluene	10000 ug/mL
							2,4,5-Trichlorotoluene	5000 ug/mL
							2,4- & 2,5- & 2,6-Dichlorotoluene	15000 ug/mL
							2,4-Dichloro-1-(triflouromethyl)-benzene	5000 ug/mL
							2,5-Dichlorobenzotrifluoride	5000 ug/mL
							2-Chlorobenzotrifluoride	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorotoluene	5000 ug/mL
							4-Chlorobenzotrifluoride	5000 ug/mL
voaWket1Reste_00001	08/02/15	07/02/15	Methanol, Lot 85233	50 mL	VOA8260KET1ST_00046	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00046	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
voaWKet1stRes_00001	10/14/15	09/14/15	Methanol, Lot 99494	50 mL	VOA8260KET1ST_00051	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00051	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
voaWKetmix2nd_00002	10/22/15	09/22/15	Methanol, Lot 99494	50 mL	VOA8260KET2ND_00054	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET2ND_00054	05/31/18		Restek, Lot A0110970		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
voaWVA1st Res_00003	08/23/15	07/23/15	Methanol, Lot 85233	25 mL	VOA8260VARES_00055	0.125 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00055	08/31/15		Restek, Lot A0109190		(Purchased Reagent)		Vinyl acetate	5000 ug/mL

Reagent

---

sv benzoepyre_00001

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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

Part Number: 71016
Lot Number: 100313
Description: Benzo(e)pyrene

Expiration Date: 100318
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000

Solvent(s): Lot # 44325 Methylene chloride

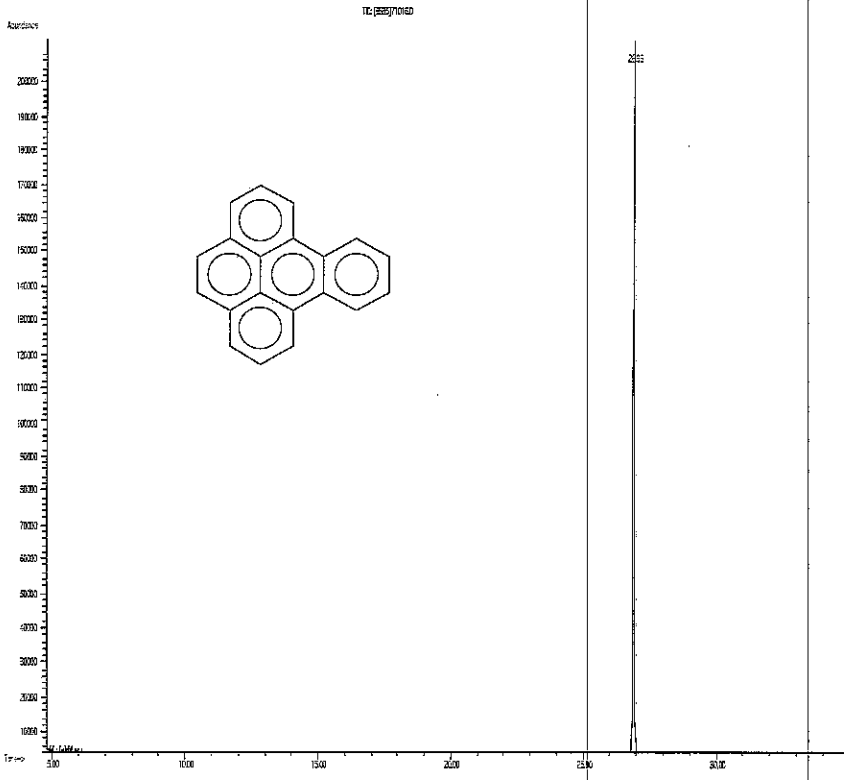
Weight(s) shown below were combined and diluted to: 100.0 5E-05 Balance Uncertainty 0.003 Flask Uncertainty

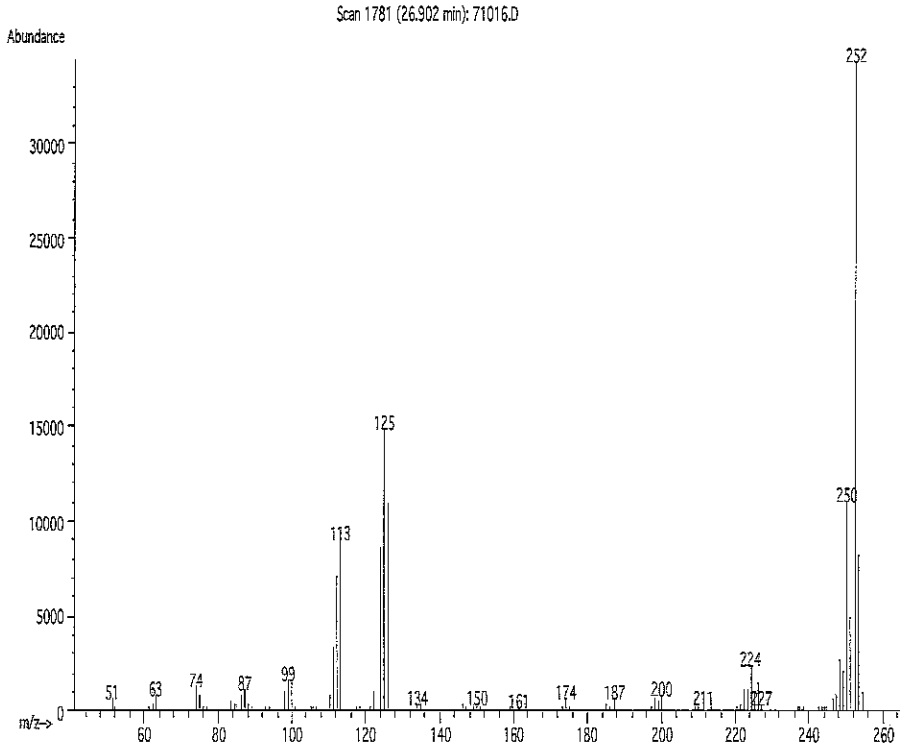
Paul Barron 100313
Formulated By: Paul Barron DATE

Pedro Rentas 100313
Reviewed By: Pedro L. Rentas DATE

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

SV2356TCPs_00002

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Certified Reference Material CRM

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Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70315
Lot Number: 061711
Description: 2,3,5,6-Tetrachlorophenol

Expiration Date: 061716
Storage: 4 °C
Nominal Concentration (µg/mL): 1000

Solvent(s): Lot # J42S08 Methylene chloride

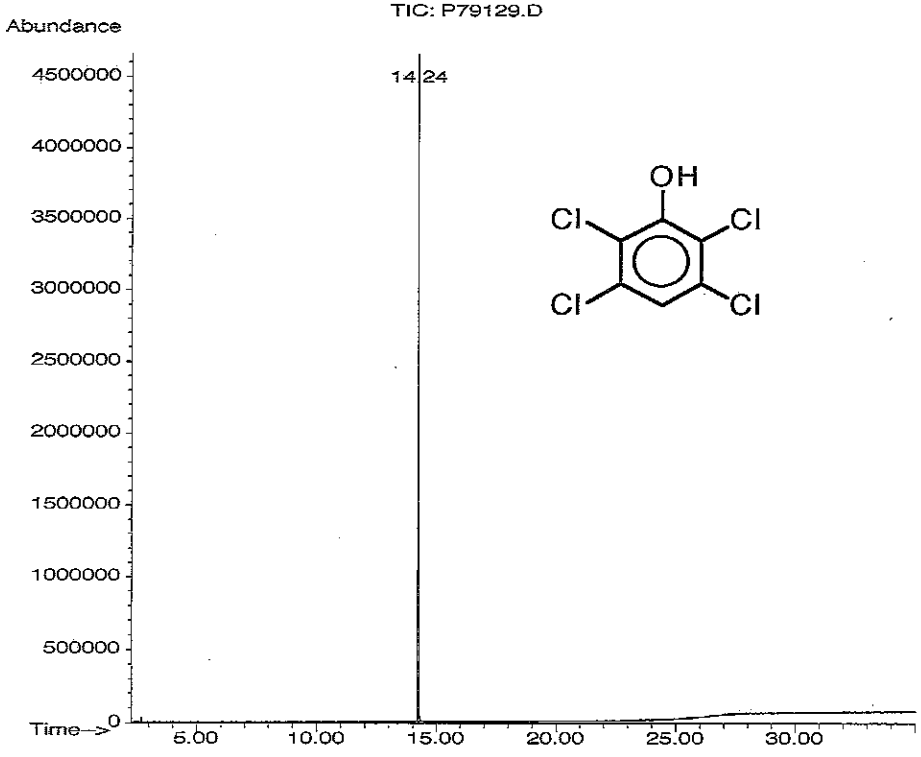
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 25.0 0.001 Flask Uncertainty

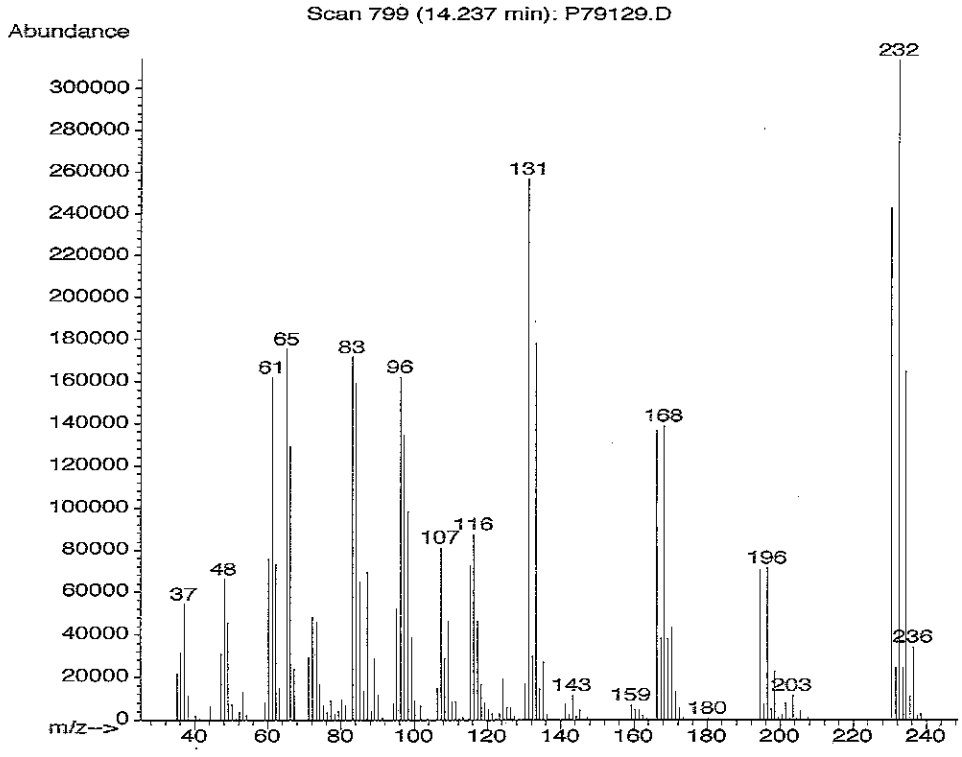
Pat Scaturchio	061711
Formulated By: Pat Scaturchio	DATE
Pedro L. Rentas	061711
Reviewed By: Pedro L. Rentas	DATE

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty ; Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 2,3,5,6-Tetrachlorophenol	315	060697	1000	98	0.2	0.02550	0.02559	1003.4	0.0057	00935-95-5	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 (9 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C. Scan Rate = 2, Split Ratio = 100:1. Analysis performed by Lance R. Boynton.





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.

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wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Reagent

sv712dimbenza_00011

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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT

		Solvent(s):	Lot#
Part Number:	70411		
Lot Number:	040915	Methylene chloride	72062
Description:	7,12-Dimethylbenz(a)anthracene		
Expiration Date:	040920		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	1000		

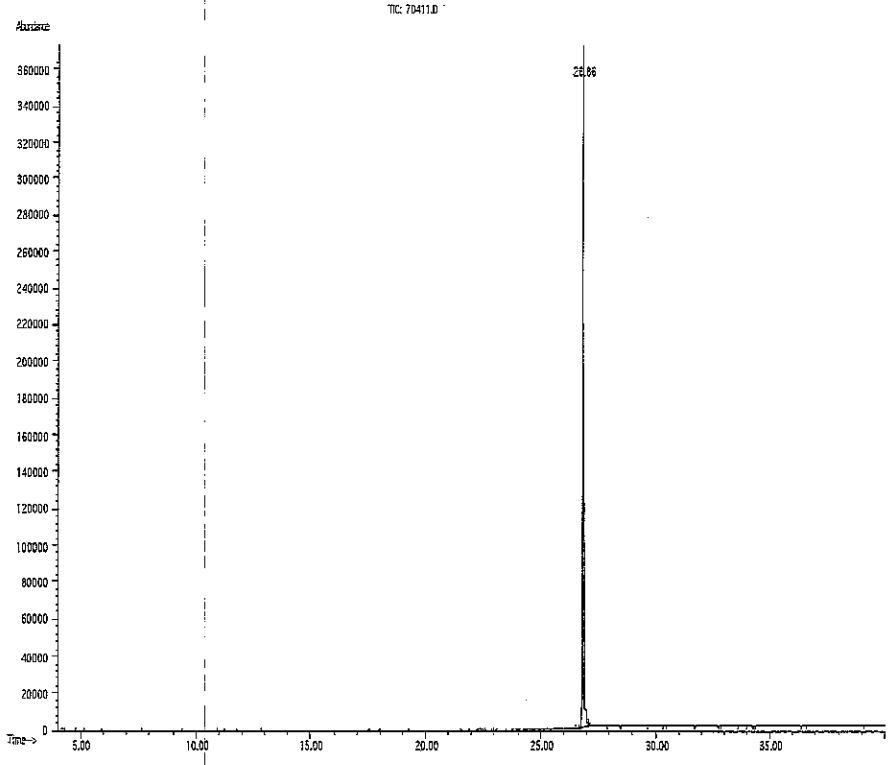
Weight(s) shown below were combined and diluted to (mL): 25.0 (5E-05 Balance Uncertainty, 0.001 Flask Uncertainty)

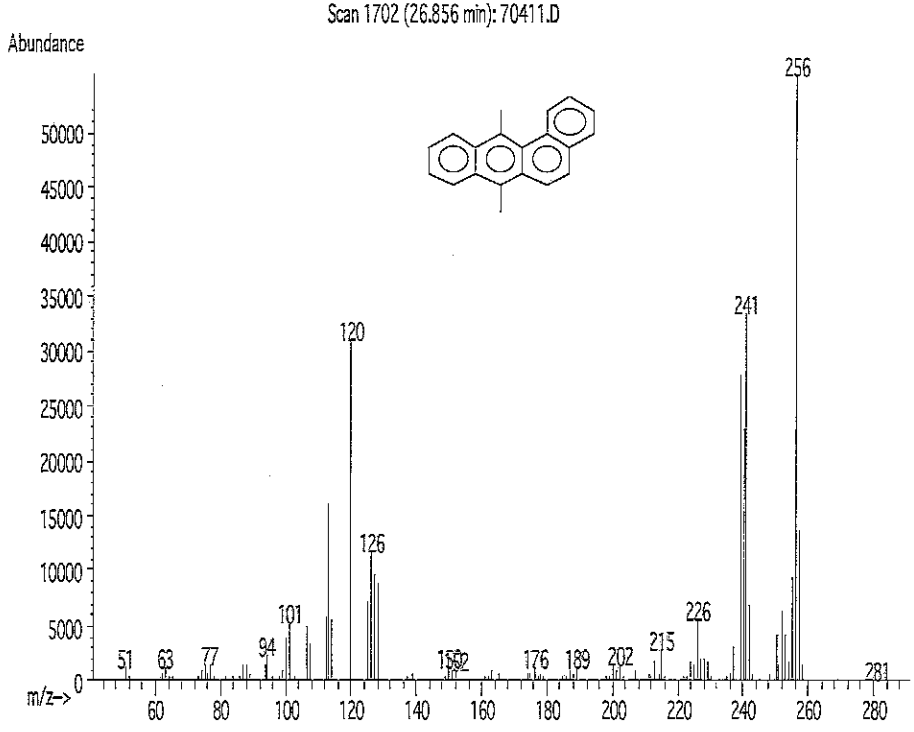
Formulated By:	Paul Barron	040915 DATE
Reviewed By:	Pedro L. Rentas	040915 DATE

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 7,12-Dimethylbenz(a)anthracene	411	GGR4E-DC	1000	98	0.2	0.02551	0.02553	1000.9	0.00566	00057-97-6	N/A	orl-rat 327mg/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 (9 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C, Scan Rate = 2, Analysis performed by Candice Warren.





Reagent

SVLVIntstd_00003

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700936
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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.

5 VLV INT STD

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 CAS # 3855-82-1 Purity 99%	2,000.0 µg/mL	+/- 11.6282 µg/mL +/- 92.7158 µg/mL +/- 101.3766 µg/mL	Gravimetric Unstressed Stressed
2	Naphthalene-d8 CAS # 1146-65-2 Purity 99%	2,000.0 µg/mL	+/- 11.6282 µg/mL +/- 92.7158 µg/mL +/- 101.3766 µg/mL	Gravimetric Unstressed Stressed
3	Acenaphthene-d10 CAS # 15067-26-2 Purity 97%	2,000.0 µg/mL	+/- 11.6282 µg/mL +/- 92.7163 µg/mL +/- 101.3771 µg/mL	Gravimetric Unstressed Stressed
4	Phenanthrene-d10 CAS # 1517-22-2 Purity 99%	2,000.0 µg/mL	+/- 11.6282 µg/mL +/- 92.7158 µg/mL +/- 101.3766 µg/mL	Gravimetric Unstressed Stressed
5	Chrysene-d12 CAS # 1719-03-5 Purity 98%	2,000.0 µg/mL	+/- 11.6281 µg/mL +/- 92.7150 µg/mL +/- 101.3758 µg/mL	Gravimetric Unstressed Stressed
6	Perylene-d12 CAS # 1520-96-3 Purity 99%	2,000.0 µg/mL	+/- 11.6282 µg/mL +/- 92.7158 µg/mL +/- 101.3766 µg/mL	Gravimetric Unstressed Stressed
Solvent:	Methylene Chloride CAS # 75-09-2 Purity 99%			

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

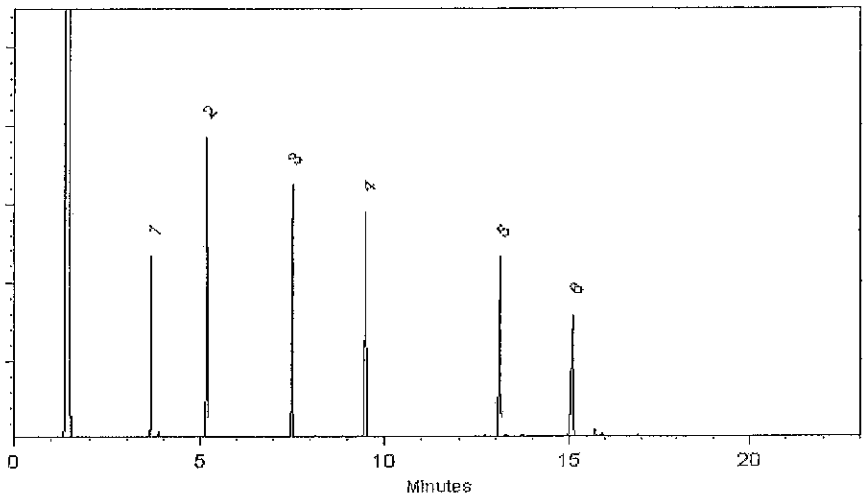
Carrier Gas:
hydrogen-constant pressure 10 psi.

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: 1128342313

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

Reagent

SVLVIntstd_00004

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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.

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	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)

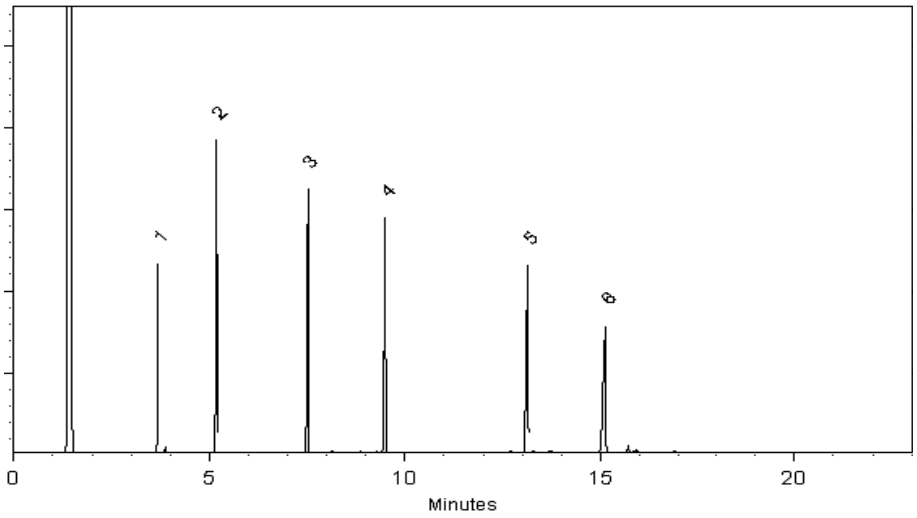
Carrier Gas:
hydrogen-constant pressure 10 psi.

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:** 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

SVLVstd1_00032

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Certificate of Analysis

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Testing Laboratory
Certificate #3222.02

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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. : 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 **CAS #** 123-91-1 **Purity** 99%	(Lot SHBD8744V)	1,004.4 µg/mL	+/- 5.8397 µg/mL +/- 10.9969 µg/mL +/- 18.6525 µg/mL		Gravimetric Unstressed Stressed
2	Pyridine **CAS #** 110-86-1 **Purity** 99%	(Lot SHBC7174V)	1,001.0 µg/mL	+/- 5.8199 µg/mL +/- 10.9596 µg/mL +/- 18.5894 µg/mL		Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine **CAS #** 62-75-9 **Purity** 99%	(Lot 3213100)	1,000.2 µg/mL	+/- 5.8152 µg/mL +/- 10.9509 µg/mL +/- 18.5745 µg/mL		Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 **Purity** 99%	(Lot K22Z462)	1,002.3 µg/mL	+/- 5.8275 µg/mL +/- 10.9739 µg/mL +/- 18.6135 µg/mL		Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4 **Purity** 99%	(Lot 45296HKV)	1,001.4 µg/mL	+/- 5.8222 µg/mL +/- 10.9640 µg/mL +/- 18.5968 µg/mL		Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8 **Purity** 99%	(Lot MKBD3900V)	1;000.8 µg/mL	+/- 5.8187 µg/mL +/- 10.9575 µg/mL +/- 18.5856 µg/mL		Gravimetric Unstressed Stressed
7	Phenol **CAS #** 108-95-2 **Purity** 99%	(Lot SHBC6998V)	1,006.9 µg/mL	+/- 5.8542 µg/mL +/- 11.0242 µg/mL +/- 18.6989 µg/mL		Gravimetric Unstressed Stressed

24	Bis(2-chloroethoxy)methane **CAS #** 111-91-1 **Purity** 99%	(Lot 317200)	1,004.5	µg/mL	+/- 5.8402 +/- 10.9980 +/- 18.6544	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	2,4-Dichlorophenol **CAS #** 120-83-2 **Purity** 99%	(Lot BCBH1617V)	1,000.0	µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot 26896BM)	1,000.6	µg/mL	+/- 5.8176 +/- 10.9553 +/- 18.5819	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBH4351V)	1,002.3	µg/mL	+/- 5.8275 +/- 10.9739 +/- 18.6135	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2,6-Dichlorophenol **CAS #** 87-65-0 **Purity** 99%	(Lot MKBN2776V)	1,000.1	µg/mL	+/- 5.8147 +/- 10.9498 +/- 18.5726	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	4-Chloroaniline **CAS #** 106-47-8 **Purity** 98%	(Lot 12528PH)	1,000.3	µg/mL	+/- 5.8157 +/- 10.9518 +/- 18.5761	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot K22W009)	999.9	µg/mL	+/- 5.8135 +/- 10.9475 +/- 18.5688	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	2-Methylnaphthalene **CAS #** 91-57-6 **Purity** 96%	(Lot 19399MJV)	998.6	µg/mL	+/- 5.8059 +/- 10.9333 +/- 18.5446	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	4-Chloro-3-methylphenol **CAS #** 59-50-7 **Purity** 99%	(Lot STBC0769V)	1,001.3	µg/mL	+/- 5.8216 +/- 10.9629 +/- 18.5949	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	1-Methylnaphthalene **CAS #** 90-12-0 **Purity** 99%	(Lot 525000-10)	1,000.0	µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	1,2,4,5-Tetrachlorobenzene **CAS #** 95-94-3 **Purity** 99%	(Lot 06024AIV)	1,000.2	µg/mL	+/- 5.8152 +/- 10.9509 +/- 18.5745	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Hexachlorocyclopentadiene **CAS #** 77-47-4 **Purity** 99%	(Lot 3140300)	1,002.4	µg/mL	+/- 5.8280 +/- 10.9750 +/- 18.6154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	2,4,6-Trichlorophenol **CAS #** 88-06-2 **Purity** 99%	(Lot MKBH7393V)	1,001.4	µg/mL	+/- 5.8222 +/- 10.9640 +/- 18.5968	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	2,4,5-Trichlorophenol **CAS #** 95-95-4 **Purity** 99%	(Lot FHM01)	1,000.0	µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	2-Chloronaphthalene **CAS #** 91-58-7 **Purity** 99%	(Lot FIJ01)	1,000.0	µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Biphenyl **CAS #** 92-52-4 **Purity** 99%	(Lot 1277976)	1,006.1	µg/mL	+/- 5.8496 +/- 11.0155 +/- 18.6841	µg/mL µg/mL µg/mL	Gravimetric Unstressed 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

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

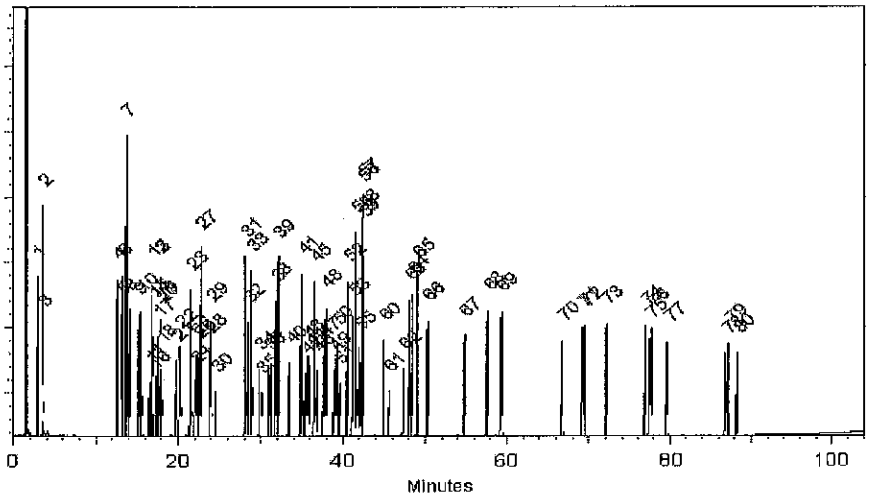
Carrier Gas:
hydrogen-constant pressure 10 psi

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

SVLVstd1_00036

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Certificate of Analysis

ISO Guide 34 Accredited Reference Material Producer Certificate #3222.01

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. : 569729 **Lot No.:** A0109703

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 : September 30, 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		1,001.8 µg/mL	+/- 5.8246 µg/mL		Gravimetric
	CAS # 123-91-1	(Lot SHBF2002V)		+/- 10.9684 µg/mL		Unstressed
	Purity 99%			+/- 18.6042 µg/mL		Stressed
2	Pyridine		1,004.7 µg/mL	+/- 5.8414 µg/mL		Gravimetric
	CAS # 110-86-1	(Lot SHBC7174V)		+/- 11.0002 µg/mL		Unstressed
	Purity 99%			+/- 18.6581 µg/mL		Stressed
3	N-Nitrosodimethylamine		1,000.0 µg/mL	+/- 5.8141 µg/mL		Gravimetric
	CAS # 62-75-9	(Lot 3498100)		+/- 10.9487 µg/mL		Unstressed
	Purity 99%			+/- 18.5708 µg/mL		Stressed
4	Aniline		1,000.9 µg/mL	+/- 5.8193 µg/mL		Gravimetric
	CAS # 62-53-3	(Lot K22Z462)		+/- 10.9586 µg/mL		Unstressed
	Purity 99%			+/- 18.5875 µg/mL		Stressed
5	Bis(2-chloroethyl)ether		1,001.9 µg/mL	+/- 5.8251 µg/mL		Gravimetric
	CAS # 111-44-4	(Lot 45296HKV)		+/- 10.9695 µg/mL		Unstressed
	Purity 99%			+/- 18.6061 µg/mL		Stressed
6	2-Chlorophenol		1,001.4 µg/mL	+/- 5.8222 µg/mL		Gravimetric
	CAS # 95-57-8	(Lot MKBD3900V)		+/- 10.9640 µg/mL		Unstressed
	Purity 99%			+/- 18.5968 µg/mL		Stressed
7	Phenol		1,000.3 µg/mL	+/- 5.8158 µg/mL		Gravimetric
	CAS # 108-95-2	(Lot SHBC6998V)		+/- 10.9520 µg/mL		Unstressed
	Purity 99%			+/- 18.5764 µg/mL		Stressed

24	Bis(2-chloroethoxy)methane		1,002.1	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 111-91-1	(Lot 2238100)			+/-	10.9717	µg/mL	Unstressed
	Purity 99%				+/-	18.6098	µg/mL	Stressed
25	2,4-Dichlorophenol		1,002.8	µg/mL	+/-	5.8304	µg/mL	Gravimetric
	CAS # 120-83-2	(Lot BCBH1617V)			+/-	10.9794	µg/mL	Unstressed
	Purity 99%				+/-	18.6228	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,000.4	µg/mL	+/-	5.8163	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBC5541V)			+/-	10.9529	µg/mL	Unstressed
	Purity 98%				+/-	18.5779	µg/mL	Stressed
27	Naphthalene		1,002.5	µg/mL	+/-	5.8286	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	10.9761	µg/mL	Unstressed
	Purity 99%				+/-	18.6172	µg/mL	Stressed
28	2,6-Dichlorophenol		1,001.7	µg/mL	+/-	5.8240	µg/mL	Gravimetric
	CAS # 87-65-0	(Lot MKBN2776V)			+/-	10.9673	µg/mL	Unstressed
	Purity 99%				+/-	18.6024	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		1,002.1	µg/mL	+/-	5.8260	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)			+/-	10.9711	µg/mL	Unstressed
	Purity 98%				+/-	18.6089	µg/mL	Stressed
31	2-Methylnaphthalene		1,000.2	µg/mL	+/-	5.8154	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)			+/-	10.9512	µg/mL	Unstressed
	Purity 96%				+/-	18.5749	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,000.9	µg/mL	+/-	5.8193	µg/mL	Gravimetric
	CAS # 59-50-7	(Lot STBC0769V)			+/-	10.9586	µg/mL	Unstressed
	Purity 99%				+/-	18.5875	µg/mL	Stressed
33	1-Methylnaphthalene		990.0	µg/mL	+/-	5.7692	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 525000-10)			+/-	10.8463	µg/mL	Unstressed
	Purity 99%				+/-	18.3892	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		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 3691100)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
36	2,4,6-Trichlorophenol		999.9	µg/mL	+/-	5.8135	µg/mL	Gravimetric
	CAS # 88-06-2	(Lot MKBL4698V)			+/-	10.9475	µg/mL	Unstressed
	Purity 98%				+/-	18.5688	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,002.2	µg/mL	+/-	5.8269	µg/mL	Gravimetric
	CAS # 95-95-4	(Lot FHM01)			+/-	10.9728	µg/mL	Unstressed
	Purity 99%				+/-	18.6116	µg/mL	Stressed
38	2-Chloronaphthalene		1,000.3	µg/mL	+/-	5.8158	µg/mL	Gravimetric
	CAS # 91-58-7	(Lot FIJ01)			+/-	10.9520	µg/mL	Unstressed
	Purity 99%				+/-	18.5764	µg/mL	Stressed
39	Biphenyl		1,002.7	µg/mL	+/-	5.8298	µg/mL	Gravimetric
	CAS # 92-52-4	(Lot 1277976)			+/-	10.9783	µg/mL	Unstressed
	Purity 99%				+/-	18.6209	µg/mL	Stressed

56	Azobenzene		1,000.9	µg/mL	+/-	5.8193	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot MKBS2559V)			+/-	10.9586	µg/mL	Unstressed
	Purity 99%				+/-	18.5875	µg/mL	Stressed
57	Diphenylamine		1,701.0	µg/mL	+/-	9.8898	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot MKBN8295V)			+/-	18.6237	µg/mL	Unstressed
	Purity 99%				+/-	31.5889	µg/mL	Stressed
58	4-Nitroaniline		1,002.6	µg/mL	+/-	5.8292	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	10.9772	µg/mL	Unstressed
	Purity 99%				+/-	18.6191	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,000.8	µg/mL	+/-	11.6328	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC06195V)			+/-	21.9062	µg/mL	Unstressed
	Purity 99%				+/-	37.1564	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		999.5	µg/mL	+/-	5.8112	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9432	µg/mL	Unstressed
	Purity 98%				+/-	18.5615	µg/mL	Stressed
61	Hexachlorobenzene		1,002.7	µg/mL	+/-	5.8300	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LC04221V)			+/-	10.9787	µg/mL	Unstressed
	Purity 98%				+/-	18.6216	µg/mL	Stressed
62	Pentachlorophenol		2,006.0	µg/mL	+/-	11.6631	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 150212JLM)			+/-	21.9631	µg/mL	Unstressed
	Purity 99%				+/-	37.2530	µg/mL	Stressed
63	Phenanthrene		1,001.9	µg/mL	+/-	5.8249	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBQ8219V)			+/-	10.9690	µg/mL	Unstressed
	Purity 98%				+/-	18.6052	µg/mL	Stressed
64	n-Octadecane (C18)		1,000.3	µg/mL	+/-	5.8158	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)			+/-	10.9520	µg/mL	Unstressed
	Purity 99%				+/-	18.5764	µg/mL	Stressed
65	Anthracene		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBR2268V)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
66	Carbazole		1,002.9	µg/mL	+/-	5.8311	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9808	µg/mL	Unstressed
	Purity 98%				+/-	18.6252	µg/mL	Stressed
67	Di-n-butylphthalate		1,001.5	µg/mL	+/-	5.8228	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBL8501V)			+/-	10.9651	µg/mL	Unstressed
	Purity 99%				+/-	18.5986	µg/mL	Stressed
68	Fluoranthene		999.8	µg/mL	+/-	5.8129	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKBQ6360V)			+/-	10.9465	µg/mL	Unstressed
	Purity 98%				+/-	18.5670	µg/mL	Stressed
69	Pyrene		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBL6786V)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
70	Benzyl butyl phthalate		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
71	Benz(a)anthracene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed

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

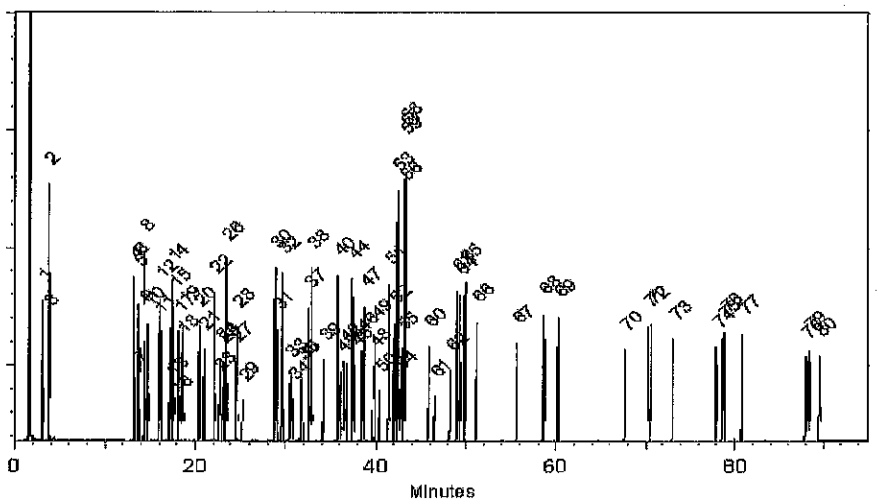
Carrier Gas:
hydrogen-constant pressure 10 psi

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.

Kendra Swope - Mix Technician

Date Mixed: 16-Mar-2015 **Balance:** B442140311

Tyler Brown - QA Analyst

Date Passed: 23-Mar-2015

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

Reagent

SVLVstd10_00001

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Certificate #3222.01

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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. : 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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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. : 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

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 **Purity** 99%	(Lot 141208JLM)	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 **Purity** 99%	(Lot 141205JLM)	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_00011

SV 8270 SURROGATE

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CT # 1310492

91
90
89
88

Catalog No. : 567685 **Lot No.:** A0103615

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 **CAS #** 367-12-4 (Lot STBC5591V) **Purity** 99%	5,003.5 µg/mL	+/- 29.0892 µg/mL +/- 124.6713 µg/mL +/- 156.7818 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d5 **CAS #** 4165-62-2 (Lot M387P4) **Purity** 99%	5,002.9 µg/mL	+/- 29.0860 µg/mL +/- 124.6575 µg/mL +/- 156.7644 µg/mL	Gravimetric Unstressed Stressed
3	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-20474) **Purity** 99%	5,001.4 µg/mL	+/- 29.0773 µg/mL +/- 124.6201 µg/mL +/- 156.7174 µg/mL	Gravimetric Unstressed Stressed
4	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot E11Y047) **Purity** 99%	5,004.4 µg/mL	+/- 29.0947 µg/mL +/- 124.6949 µg/mL +/- 156.8114 µg/mL	Gravimetric Unstressed Stressed
5	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot 29699MJV) **Purity** 99%	5,003.9 µg/mL	+/- 29.0914 µg/mL +/- 124.6805 µg/mL +/- 156.7934 µg/mL	Gravimetric Unstressed Stressed
6	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-20577) **Purity** 99%	5,007.1 µg/mL	+/- 29.1100 µg/mL +/- 124.7604 µg/mL +/- 156.8938 µg/mL	Gravimetric Unstressed Stressed

7850-1
4247-4671-32

124318

Reagent

SVLVSURRSPK_00014

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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. : 567685 **Lot No.:** A0103615

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 **CAS #** 367-12-4 (Lot STBC5591V) **Purity** 99%	5,003.5 µg/mL	+/- 29.0892 µg/mL +/- 124.6713 µg/mL +/- 156.7818 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d5 **CAS #** 4165-62-2 (Lot M387P4) **Purity** 99%	5,002.9 µg/mL	+/- 29.0860 µg/mL +/- 124.6575 µg/mL +/- 156.7644 µg/mL	Gravimetric Unstressed Stressed
3	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-20474) **Purity** 99%	5,001.4 µg/mL	+/- 29.0773 µg/mL +/- 124.6201 µg/mL +/- 156.7174 µg/mL	Gravimetric Unstressed Stressed
4	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot E11Y047) **Purity** 99%	5,004.4 µg/mL	+/- 29.0947 µg/mL +/- 124.6949 µg/mL +/- 156.8114 µg/mL	Gravimetric Unstressed Stressed
5	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot 29699MJV) **Purity** 99%	5,003.9 µg/mL	+/- 29.0914 µg/mL +/- 124.6805 µg/mL +/- 156.7934 µg/mL	Gravimetric Unstressed Stressed
6	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-20577) **Purity** 99%	5,007.1 µg/mL	+/- 29.1100 µg/mL +/- 124.7604 µg/mL +/- 156.8938 µg/mL	Gravimetric Unstressed Stressed

Reagent

svmethylmetha_00011

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Analytical Reference Material ARM

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Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70443
Lot Number: 021315
Description: Methyl methane sulfonate

Solvent(s): **Lot#**
Methylene chloride 72062

Expiration Date: 021320
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 25.0 0.001 Flask Uncertainty

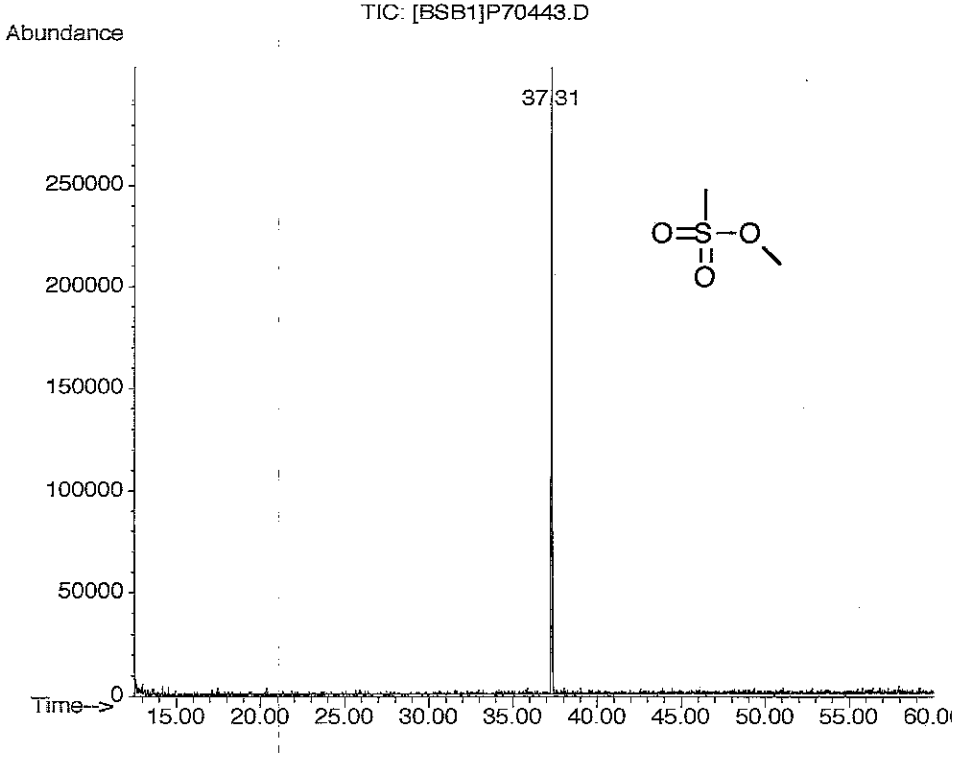
Paul Barron 021315
Formulated By: Paul Barron DATE

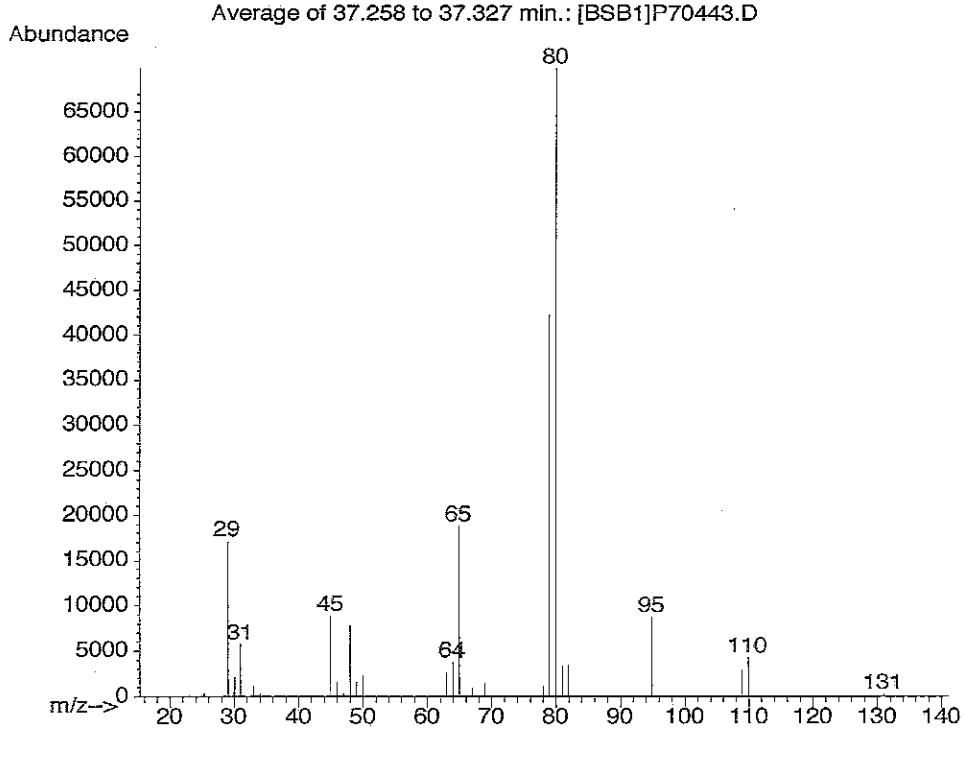
Pedro Rentas 021315
Reviewed By: Pedro L. Rentas DATE

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Methyl methane sulfonate	443	07322PW	1000	99	0.2	0.02524	0.02530	1002.2	0.00565	00066-27-3	N/A	orl-rat 225mg/kg

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1=35°C (10min.), Temp. 2=200°C (8.75 min.), Rate=4°C/min., Injector Temp.=200°C, Detector Temp.=220°C. Analysis performed by Pedro Rentas.





Reagent

SVNNITROPYROs_00015

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Certified Reference Material CRM

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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

Solvent(s): Lot # 62418 Methylene chloride

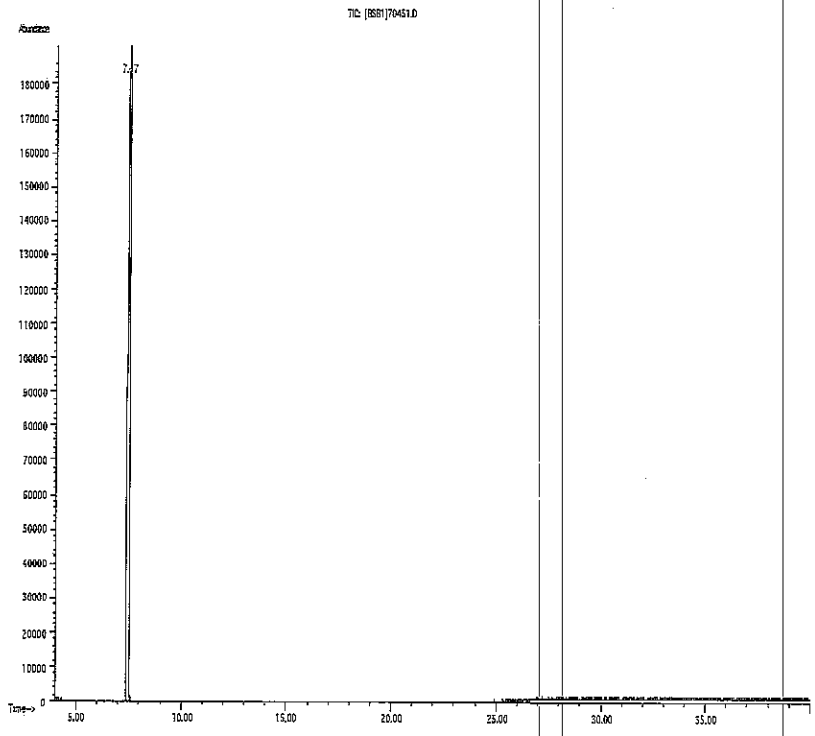
Formulated By: Paul Barron 060514 DATE

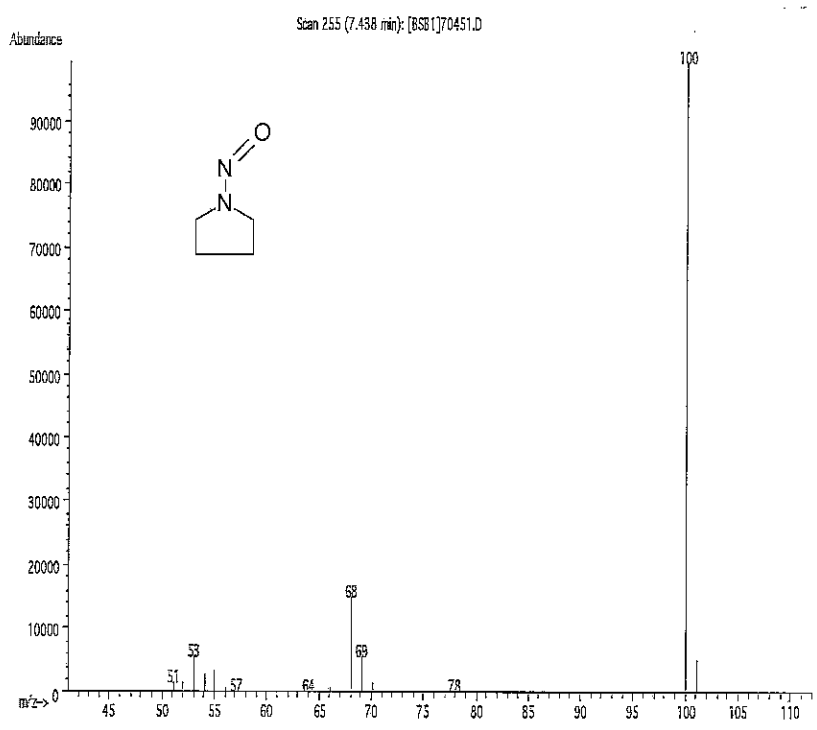
Reviewed By: Pedro L. Rentas 060514 DATE

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

VOA8260GAS1ST_00110

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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)

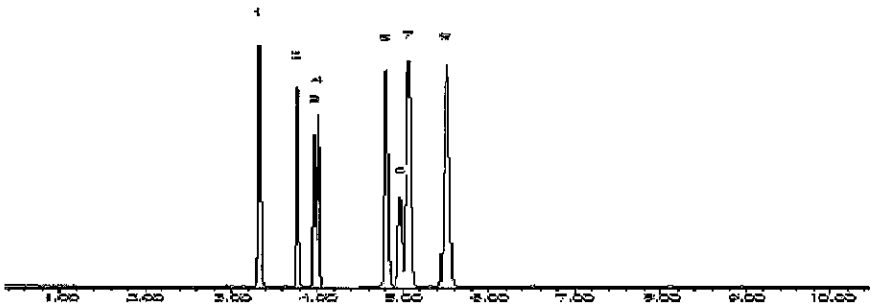
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

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

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. : 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)

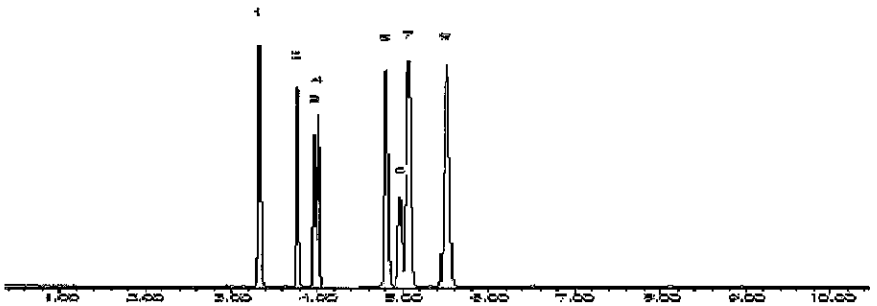
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

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

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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.:** A0111273

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 : May 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.SEC (Lot 21773) **Purity** 99%	2,497.6 µg/mL	+/- 24.0984 µg/mL +/- 34.1039 µg/mL +/- 37.6853 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,503.8 µg/mL	+/- 21.5368 µg/mL +/- 32.3897 µg/mL +/- 36.1592 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,492.0 µg/mL	+/- 23.1023 µg/mL +/- 33.3685 µg/mL +/- 37.0056 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 18349) **Purity** 99%	2,488.6 µg/mL	+/- 19.2643 µg/mL +/- 30.8102 µg/mL +/- 34.7063 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot Q119-46) **Purity** 99%	2,491.9 µg/mL	+/- 20.7776 µg/mL +/- 31.8022 µg/mL +/- 35.5993 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,516.0 µg/mL	+/- 19.4764 µg/mL +/- 31.1495 µg/mL +/- 35.0885 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4.SEC (Lot SHBC0858V) **Purity** 99%	2,503.3 µg/mL	+/- 18.8823 µg/mL +/- 30.6846 µg/mL +/- 34.6386 µg/mL	Gravimetric Unstressed Stressed

Reagent

VOA8260INTRES_00067

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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_00068

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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. : 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

VOA8260KET1ST_00046

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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. : 569721 **Lot No.:** A0110400

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 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	Acetone **CAS #** 67-64-1 (Lot 07196AK) **Purity** 99%	12,506.8 µg/mL	+/- 73.2301 µg/mL +/- 665.6407 µg/mL +/- 666.3747 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot BCBH7802V) **Purity** 99%	12,504.8 µg/mL	+/- 73.2184 µg/mL +/- 665.5343 µg/mL +/- 666.2681 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBF5332V) **Purity** 99%	12,509.2 µg/mL	+/- 73.2441 µg/mL +/- 665.7684 µg/mL +/- 666.5025 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBN7380V) **Purity** 99%	12,501.6 µg/mL	+/- 73.1996 µg/mL +/- 665.3640 µg/mL +/- 666.0976 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VOA8260KET1ST_00047

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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. : 569721 **Lot No.:** A0110400

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 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	Acetone **CAS #** 67-64-1 (Lot 07196AK) **Purity** 99%	12,506.8 µg/mL	+/- 73.2301 +/- 665.6407 +/- 666.3747	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot BCBH7802V) **Purity** 99%	12,504.8 µg/mL	+/- 73.2184 +/- 665.5343 +/- 666.2681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBF5332V) **Purity** 99%	12,509.2 µg/mL	+/- 73.2441 +/- 665.7684 +/- 666.5025	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBN7380V) **Purity** 99%	12,501.6 µg/mL	+/- 73.1996 +/- 665.3640 +/- 666.0976	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VOA8260KET1ST_00051

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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. : 569721 **Lot No.:** A0110400

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 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	Acetone **CAS #** 67-64-1 (Lot 07196AK) **Purity** 99%	12,506.8 µg/mL	+/- 73.2301 µg/mL +/- 665.6407 µg/mL +/- 666.3747 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot BCBH7802V) **Purity** 99%	12,504.8 µg/mL	+/- 73.2184 µg/mL +/- 665.5343 µg/mL +/- 666.2681 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBF5332V) **Purity** 99%	12,509.2 µg/mL	+/- 73.2441 µg/mL +/- 665.7684 µg/mL +/- 666.5025 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBN7380V) **Purity** 99%	12,501.6 µg/mL	+/- 73.1996 µg/mL +/- 665.3640 µg/mL +/- 666.0976 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

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. : 569721.sec **Lot No.:** A0110970

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : May 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L., K=2)		
1	Acetone		12,528.0	µg/mL	+/- 73.3542	µg/mL	Gravimetric
	CAS # 67-64-1.SEC	(Lot P14A572)			+/- 666.7690	µg/mL	Unstressed
	Purity 99%				+/- 667.5042	µg/mL	Stressed
2	2-Butanone (MEK)		12,530.0	µg/mL	+/- 73.3659	µg/mL	Gravimetric
	CAS # 78-93-3.SEC	(Lot RA58J)			+/- 666.8755	µg/mL	Unstressed
	Purity 99%				+/- 667.6108	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)		12,585.0	µg/mL	+/- 73.6879	µg/mL	Gravimetric
	CAS # 108-10-1.SEC	(Lot E29T040)			+/- 669.8027	µg/mL	Unstressed
	Purity 99%				+/- 670.5412	µg/mL	Stressed
4	2-Hexanone		12,516.0	µg/mL	+/- 73.2839	µg/mL	Gravimetric
	CAS # 591-78-6.SEC	(Lot ZSVCD-FF)			+/- 666.1304	µg/mL	Unstressed
	Purity 99%				+/- 666.8648	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VOA8260MEGA1_00030

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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. : 569720 **Lot No.:** A0108166

Description : 8260 List 1 / Std #1 MegaMix (2015)

8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : January 31, 2017 **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 (Lot SHBF3466V) **Purity** 99%	2,521.3 µg/mL	+/- 14.6588 +/- 134.1754 +/- 134.3233	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00001135) **Purity** 99%	2,522.5 µg/mL	+/- 14.6660 +/- 134.2419 +/- 134.3899	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethane **CAS #** 75-34-3 (Lot Q179-33) **Purity** 98%	2,499.5 µg/mL	+/- 14.5323 +/- 133.0173 +/- 133.1640	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBC6893V) **Purity** 99%	25,002.4 µg/mL	+/- 145.3584 +/- 1,330.5704 +/- 1,332.0378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBC7288V) **Purity** 99%	2,510.0 µg/mL	+/- 14.5934 +/- 133.5767 +/- 133.7240	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9 (Lot SHBD7134V) **Purity** 98%	12,505.4 µg/mL	+/- 72.7037 +/- 665.5101 +/- 666.2440	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot MKBG5777V) **Purity** 99%	2,500.0 µg/mL	+/- 19.2743 +/- 133.6453 +/- 133.7914	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,511.3	µg/mL	+/-	14.6006	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBD4974V)			+/-	133.6432	µg/mL	Unstressed
	Purity 99%				+/-	133.7906	µg/mL	Stressed
9	Carbon disulfide		2,511.7	µg/mL	+/-	14.6035	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot C30Y997)			+/-	133.6693	µg/mL	Unstressed
	Purity 98%				+/-	133.8167	µg/mL	Stressed
10	Acrylonitrile		25,017.1	µg/mL	+/-	145.4441	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot 10172706)			+/-	1,331.3554	µg/mL	Unstressed
	Purity 99%				+/-	1,332.8236	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBG8424V)			+/-	133.2507	µg/mL	Unstressed
	Purity 99%				+/-	133.3977	µg/mL	Stressed
12	n-Hexane (C6)		2,511.9	µg/mL	+/-	14.6043	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBF0293V)			+/-	133.6764	µg/mL	Unstressed
	Purity 99%				+/-	133.8239	µg/mL	Stressed
13	1,1-dichloroethene		2,521.3	µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBD6170V)			+/-	134.1754	µg/mL	Unstressed
	Purity 99%				+/-	134.3233	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.0	µg/mL	+/-	14.5351	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBH9246V)			+/-	133.0434	µg/mL	Unstressed
	Purity 98%				+/-	133.1901	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	133.3106	µg/mL	Unstressed
	Purity 99%				+/-	133.4576	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,553.8	µg/mL	+/-	363.6739	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBF2852V)			+/-	3,328.9705	µg/mL	Unstressed
	Purity 99%				+/-	3,332.6417	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,504.6	µg/mL	+/-	14.5621	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBF1193V)			+/-	133.2906	µg/mL	Unstressed
	Purity 99%				+/-	133.4376	µg/mL	Stressed
18	Bromochloromethane		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	133.3172	µg/mL	Unstressed
	Purity 99%				+/-	133.4642	µg/mL	Stressed
19	Tetrahydrofuran		5,000.7	µg/mL	+/-	29.0746	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBF2660V)			+/-	266.1270	µg/mL	Unstressed
	Purity 97%				+/-	266.4204	µg/mL	Stressed
20	1,1,1-trichloroethane		2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B14Z1114)			+/-	133.4769	µg/mL	Unstressed
	Purity 99%				+/-	133.6241	µg/mL	Stressed
21	Cyclohexane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot SHBD7873V)			+/-	133.2574	µg/mL	Unstressed
	Purity 99%				+/-	133.4043	µg/mL	Stressed
22	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)			+/-	133.1738	µg/mL	Unstressed
	Purity 98%				+/-	133.3207	µg/mL	Stressed
23	carbon tetrachloride		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBC1410V)			+/-	133.3239	µg/mL	Unstressed
	Purity 99%				+/-	133.4709	µg/mL	Stressed

24	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBF2321V)	2,501.4	µg/mL	+/- 14.5432 +/- 133.1177 +/- 133.2645	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBC6595V)	2,501.6	µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBD4617V)	2,509.1	µg/mL	+/- 14.5883 +/- 133.5301 +/- 133.6774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBF0943V)	2,504.8	µg/mL	+/- 14.5628 +/- 133.2973 +/- 133.4443	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot 50996APV)	2,502.5	µg/mL	+/- 14.5498 +/- 133.1775 +/- 133.3244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot 01113D0V)	2,502.4	µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	bromodichloromethane **CAS #** 75-27-4 **Purity** 98%	(Lot MKBL1617V)	2,507.9	µg/mL	+/- 14.5814 +/- 133.4672 +/- 133.6144	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBF2002V)	50,001.4	µg/mL	+/- 290.6971 +/- 2,660.9612 +/- 2,663.8957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10169264)	2,508.1	µg/mL	+/- 14.5825 +/- 133.4769 +/- 133.6241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 20936)	2,507.0	µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBF2730V)	2,502.4	µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,500.9	µg/mL	+/- 14.5403 +/- 133.0911 +/- 133.2378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 99%	(Lot C363110)	2,502.1	µg/mL	+/- 14.5476 +/- 133.1576 +/- 133.3044	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,507.5	µg/mL	+/- 14.5788 +/- 133.4436 +/- 133.5908	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,505.3	µg/mL	+/- 14.5657 +/- 133.3239 +/- 133.4709	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBD2073V)	2,506.5	µg/mL	+/- 14.5730 +/- 133.3904 +/- 133.5375	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane		2,503.2	µg/mL	+/-	14.5536	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBP0459V)			+/-	133.2129	µg/mL	Unstressed
	Purity 98%				+/-	133.3598	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,504.3	µg/mL	+/-	14.5599	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	133.2707	µg/mL	Unstressed
	Purity 99%				+/-	133.4176	µg/mL	Stressed
42	Chlorobenzene		2,510.8	µg/mL	+/-	14.5977	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBD3200V)			+/-	133.6166	µg/mL	Unstressed
	Purity 99%				+/-	133.7639	µg/mL	Stressed
43	1,1,2,2-Tetrachloroethane		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	133.1975	µg/mL	Unstressed
	Purity 99%				+/-	133.3444	µg/mL	Stressed
44	Ethylbenzene		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBC9001V)			+/-	133.5567	µg/mL	Unstressed
	Purity 99%				+/-	133.7040	µg/mL	Stressed
45	m-Xylene		1,252.6	µg/mL	+/-	7.2829	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBF1720V)			+/-	66.6619	µg/mL	Unstressed
	Purity 99%				+/-	66.7355	µg/mL	Stressed
46	o-Xylene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBC8668V)			+/-	133.2390	µg/mL	Unstressed
	Purity 98%				+/-	133.3859	µg/mL	Stressed
47	p-Xylene		1,253.3	µg/mL	+/-	7.2865	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBF3427V)			+/-	66.6952	µg/mL	Unstressed
	Purity 99%				+/-	66.7688	µg/mL	Stressed
48	Styrene		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot 10182421)			+/-	133.2307	µg/mL	Unstressed
	Purity 99%				+/-	133.3777	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10169400)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
50	bromoform		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBC3410V)			+/-	133.4569	µg/mL	Unstressed
	Purity 99%				+/-	133.6041	µg/mL	Stressed
51	1,1,1,2-Tetrachloroethane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	133.5900	µg/mL	Unstressed
	Purity 99%				+/-	133.7373	µg/mL	Stressed
52	chloroform		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBB7498V)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 1428739V)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,499.5	µg/mL	+/-	14.5322	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP5371V)			+/-	133.0168	µg/mL	Unstressed
	Purity 96%				+/-	133.1635	µg/mL	Stressed
55	n-Propylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBQ8049V)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot MKBD4032V)	2,501.1	µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ1732V)	2,501.6	µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBH8892V)	2,500.3	µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBB7205V)	2,506.4	µg/mL	+/- 14.5723 +/- 133.3837 +/- 133.5308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot S52237V)	2,500.1	µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBJ3305V)	2,503.1	µg/mL	+/- 14.5534 +/- 133.2108 +/- 133.3577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBK3151V)	2,504.0	µg/mL	+/- 14.5585 +/- 133.2574 +/- 133.4043	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBK4439V)	2,501.1	µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBC1891V)	2,506.1	µg/mL	+/- 14.5708 +/- 133.3704 +/- 133.5175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBL3891V)	2,507.0	µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09418JJV)	2,502.6	µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot 68996CMV)	2,501.6	µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,505.9	µg/mL	+/- 14.5694 +/- 133.3571 +/- 133.5042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot 26896BM)	2,501.5	µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot K22W009)	2,501.6	µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBH4351V)	2,502.6	µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,503.4 µg/mL	+/-	14.5548	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)		+/-	133.2241	µg/mL	Unstressed
	Purity 99%			+/-	133.3710	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)

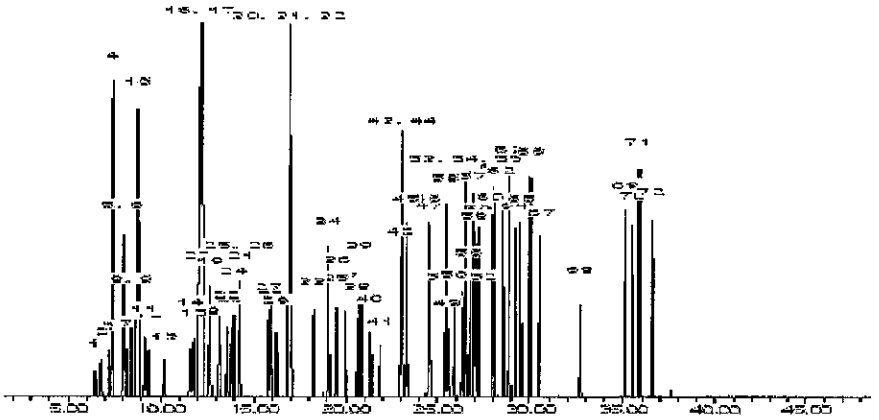
Carrier Gas:
helium-constant pressure 30 psi

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



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: 07-Jan-2015 **Balance:** 1125113331

Tyler Brown - QA Analyst

Date Passed: 14-Jan-2015

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

Reagent

VOA8260MEGA1_00034

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

ilac-MRA

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. : 569720 **Lot No.:** A0108166

Description : 8260 List 1 / Std #1 MegaMix (2015)

8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : January 31, 2017 **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 (Lot SHBF3466V) **Purity** 99%	2,521.3 µg/mL	+/- 14.6588 +/- 134.1754 +/- 134.3233	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00001135) **Purity** 99%	2,522.5 µg/mL	+/- 14.6660 +/- 134.2419 +/- 134.3899	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethane **CAS #** 75-34-3 (Lot Q179-33) **Purity** 98%	2,499.5 µg/mL	+/- 14.5323 +/- 133.0173 +/- 133.1640	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBC6893V) **Purity** 99%	25,002.4 µg/mL	+/- 145.3584 +/- 1,330.5704 +/- 1,332.0378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBC7288V) **Purity** 99%	2,510.0 µg/mL	+/- 14.5934 +/- 133.5767 +/- 133.7240	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9 (Lot SHBD7134V) **Purity** 98%	12,505.4 µg/mL	+/- 72.7037 +/- 665.5101 +/- 666.2440	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot MKBG5777V) **Purity** 99%	2,500.0 µg/mL	+/- 19.2743 +/- 133.6453 +/- 133.7914	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,511.3	µg/mL	+/-	14.6006	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBD4974V)			+/-	133.6432	µg/mL	Unstressed
	Purity 99%				+/-	133.7906	µg/mL	Stressed
9	Carbon disulfide		2,511.7	µg/mL	+/-	14.6035	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot C30Y997)			+/-	133.6693	µg/mL	Unstressed
	Purity 98%				+/-	133.8167	µg/mL	Stressed
10	Acrylonitrile		25,017.1	µg/mL	+/-	145.4441	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot 10172706)			+/-	1,331.3554	µg/mL	Unstressed
	Purity 99%				+/-	1,332.8236	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBG8424V)			+/-	133.2507	µg/mL	Unstressed
	Purity 99%				+/-	133.3977	µg/mL	Stressed
12	n-Hexane (C6)		2,511.9	µg/mL	+/-	14.6043	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBF0293V)			+/-	133.6764	µg/mL	Unstressed
	Purity 99%				+/-	133.8239	µg/mL	Stressed
13	1,1-dichloroethene		2,521.3	µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBD6170V)			+/-	134.1754	µg/mL	Unstressed
	Purity 99%				+/-	134.3233	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.0	µg/mL	+/-	14.5351	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBH9246V)			+/-	133.0434	µg/mL	Unstressed
	Purity 98%				+/-	133.1901	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	133.3106	µg/mL	Unstressed
	Purity 99%				+/-	133.4576	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,553.8	µg/mL	+/-	363.6739	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBF2852V)			+/-	3,328.9705	µg/mL	Unstressed
	Purity 99%				+/-	3,332.6417	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,504.6	µg/mL	+/-	14.5621	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBF1193V)			+/-	133.2906	µg/mL	Unstressed
	Purity 99%				+/-	133.4376	µg/mL	Stressed
18	Bromochloromethane		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	133.3172	µg/mL	Unstressed
	Purity 99%				+/-	133.4642	µg/mL	Stressed
19	Tetrahydrofuran		5,000.7	µg/mL	+/-	29.0746	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBF2660V)			+/-	266.1270	µg/mL	Unstressed
	Purity 97%				+/-	266.4204	µg/mL	Stressed
20	1,1,1-trichloroethane		2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B14Z1114)			+/-	133.4769	µg/mL	Unstressed
	Purity 99%				+/-	133.6241	µg/mL	Stressed
21	Cyclohexane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot SHBD7873V)			+/-	133.2574	µg/mL	Unstressed
	Purity 99%				+/-	133.4043	µg/mL	Stressed
22	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)			+/-	133.1738	µg/mL	Unstressed
	Purity 98%				+/-	133.3207	µg/mL	Stressed
23	carbon tetrachloride		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBC1410V)			+/-	133.3239	µg/mL	Unstressed
	Purity 99%				+/-	133.4709	µg/mL	Stressed

24	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBF2321V)	2,501.4	µg/mL	+/- 14.5432 +/- 133.1177 +/- 133.2645	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBC6595V)	2,501.6	µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBD4617V)	2,509.1	µg/mL	+/- 14.5883 +/- 133.5301 +/- 133.6774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBF0943V)	2,504.8	µg/mL	+/- 14.5628 +/- 133.2973 +/- 133.4443	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot 50996APV)	2,502.5	µg/mL	+/- 14.5498 +/- 133.1775 +/- 133.3244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot 01113D0V)	2,502.4	µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	bromodichloromethane **CAS #** 75-27-4 **Purity** 98%	(Lot MKBL1617V)	2,507.9	µg/mL	+/- 14.5814 +/- 133.4672 +/- 133.6144	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBF2002V)	50,001.4	µg/mL	+/- 290.6971 +/- 2,660.9612 +/- 2,663.8957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10169264)	2,508.1	µg/mL	+/- 14.5825 +/- 133.4769 +/- 133.6241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 20936)	2,507.0	µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBF2730V)	2,502.4	µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,500.9	µg/mL	+/- 14.5403 +/- 133.0911 +/- 133.2378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 99%	(Lot C363110)	2,502.1	µg/mL	+/- 14.5476 +/- 133.1576 +/- 133.3044	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,507.5	µg/mL	+/- 14.5788 +/- 133.4436 +/- 133.5908	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,505.3	µg/mL	+/- 14.5657 +/- 133.3239 +/- 133.4709	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBD2073V)	2,506.5	µg/mL	+/- 14.5730 +/- 133.3904 +/- 133.5375	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane		2,503.2	µg/mL	+/-	14.5536	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBP0459V)			+/-	133.2129	µg/mL	Unstressed
	Purity 98%				+/-	133.3598	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,504.3	µg/mL	+/-	14.5599	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	133.2707	µg/mL	Unstressed
	Purity 99%				+/-	133.4176	µg/mL	Stressed
42	Chlorobenzene		2,510.8	µg/mL	+/-	14.5977	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBD3200V)			+/-	133.6166	µg/mL	Unstressed
	Purity 99%				+/-	133.7639	µg/mL	Stressed
43	1,1,2,2-Tetrachloroethane		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	133.1975	µg/mL	Unstressed
	Purity 99%				+/-	133.3444	µg/mL	Stressed
44	Ethylbenzene		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBC9001V)			+/-	133.5567	µg/mL	Unstressed
	Purity 99%				+/-	133.7040	µg/mL	Stressed
45	m-Xylene		1,252.6	µg/mL	+/-	7.2829	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBF1720V)			+/-	66.6619	µg/mL	Unstressed
	Purity 99%				+/-	66.7355	µg/mL	Stressed
46	o-Xylene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBC8668V)			+/-	133.2390	µg/mL	Unstressed
	Purity 98%				+/-	133.3859	µg/mL	Stressed
47	p-Xylene		1,253.3	µg/mL	+/-	7.2865	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBF3427V)			+/-	66.6952	µg/mL	Unstressed
	Purity 99%				+/-	66.7688	µg/mL	Stressed
48	Styrene		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot 10182421)			+/-	133.2307	µg/mL	Unstressed
	Purity 99%				+/-	133.3777	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10169400)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
50	bromoform		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBC3410V)			+/-	133.4569	µg/mL	Unstressed
	Purity 99%				+/-	133.6041	µg/mL	Stressed
51	1,1,1,2-Tetrachloroethane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	133.5900	µg/mL	Unstressed
	Purity 99%				+/-	133.7373	µg/mL	Stressed
52	chloroform		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBB7498V)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 1428739V)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,499.5	µg/mL	+/-	14.5322	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP5371V)			+/-	133.0168	µg/mL	Unstressed
	Purity 96%				+/-	133.1635	µg/mL	Stressed
55	n-Propylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBQ8049V)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot MKBD4032V)	2,501.1	µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ1732V)	2,501.6	µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBH8892V)	2,500.3	µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBB7205V)	2,506.4	µg/mL	+/- 14.5723 +/- 133.3837 +/- 133.5308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot S52237V)	2,500.1	µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBJ3305V)	2,503.1	µg/mL	+/- 14.5534 +/- 133.2108 +/- 133.3577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBK3151V)	2,504.0	µg/mL	+/- 14.5585 +/- 133.2574 +/- 133.4043	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBK4439V)	2,501.1	µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBC1891V)	2,506.1	µg/mL	+/- 14.5708 +/- 133.3704 +/- 133.5175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBL3891V)	2,507.0	µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09418JJV)	2,502.6	µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot 68996CMV)	2,501.6	µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,505.9	µg/mL	+/- 14.5694 +/- 133.3571 +/- 133.5042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot 26896BM)	2,501.5	µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot K22W009)	2,501.6	µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBH4351V)	2,502.6	µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,503.4 µg/mL	+/-	14.5548	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)		+/-	133.2241	µg/mL	Unstressed
	Purity 99%			+/-	133.3710	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)

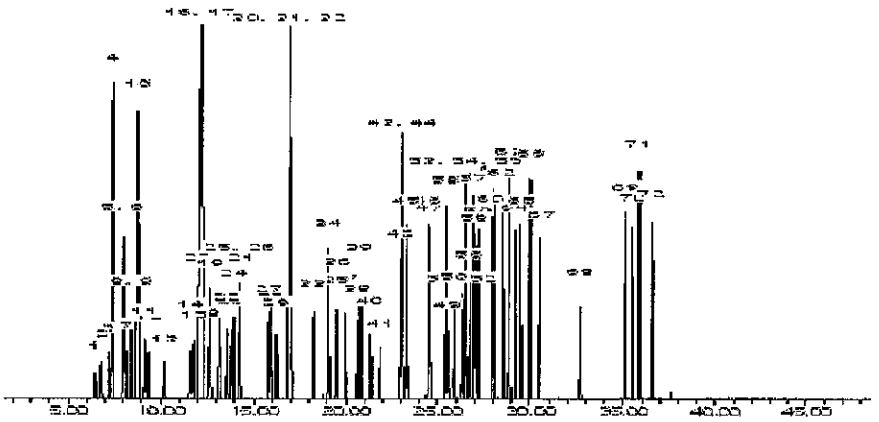
Carrier Gas:
helium-constant pressure 30 psi

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



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: 07-Jan-2015 **Balance:** 1125113331

Tyler Brown - QA Analyst

Date Passed: 14-Jan-2015

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

Reagent

VOA8260MEGA2_00037

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

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. : 569720.sec **Lot No.:** A0108163

Description : 8260 List 1 / Std #1 MegaMix (2015)

8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : January 31, 2017 **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.SEC (Lot F23X068) **Purity** 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL +/- 133.1044 µg/mL +/- 133.2511 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL +/- 133.1044 µg/mL +/- 133.2511 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 903000) **Purity** 99%	2,502.8 µg/mL	+/- 14.5512 µg/mL +/- 133.1908 µg/mL +/- 133.3377 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.5 µg/mL	+/- 145.3477 µg/mL +/- 1,330.4725 µg/mL +/- 1,331.9397 µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot A13Y016) **Purity** 97%	2,500.5 µg/mL	+/- 14.5383 µg/mL +/- 133.0732 µg/mL +/- 133.2199 µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9.SEC (Lot YDGVD) **Purity** 99%	12,500.6 µg/mL	+/- 72.6759 µg/mL +/- 665.2553 µg/mL +/- 665.9889 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot 5MNOA-DQ) **Purity** 99%	2,501.3 µg/mL	+/- 14.5425 µg/mL +/- 133.1110 µg/mL +/- 133.2578 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 75-09-2.SEC	(Lot FGM02)			+/-	133.1177	µg/mL	Unstressed
	Purity 99%				+/-	133.2645	µg/mL	Stressed
9	Carbon disulfide		2,501.2	µg/mL	+/-	14.5422	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	133.1086	µg/mL	Unstressed
	Purity 98%				+/-	133.2554	µg/mL	Stressed
10	Acrylonitrile		25,002.1	µg/mL	+/-	145.3569	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot CCFKL)			+/-	1,330.5571	µg/mL	Unstressed
	Purity 99%				+/-	1,332.0244	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 156-59-2.SEC	(Lot HGC01-BLKT)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed
12	n-Hexane (C6)		2,500.1	µg/mL	+/-	14.5358	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot K24W001)			+/-	133.0499	µg/mL	Unstressed
	Purity 98%				+/-	133.1967	µg/mL	Stressed
13	1,1-Dichloroethane		2,503.0	µg/mL	+/-	14.5527	µg/mL	Gravimetric
	CAS # 75-34-3.SEC	(Lot 2663100)			+/-	133.2041	µg/mL	Unstressed
	Purity 99%				+/-	133.3510	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 594-20-7.SEC	(Lot GI01)			+/-	133.0844	µg/mL	Unstressed
	Purity 99%				+/-	133.2312	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,500.2	µg/mL	+/-	14.5362	µg/mL	Gravimetric
	CAS # 156-60-5.SEC	(Lot TS5UB)			+/-	133.0538	µg/mL	Unstressed
	Purity 97%				+/-	133.2005	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,501.3	µg/mL	+/-	363.3687	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot PH2XK)			+/-	3,326.1766	µg/mL	Unstressed
	Purity 99%				+/-	3,329.8447	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZAQTA-MS)			+/-	133.0711	µg/mL	Unstressed
	Purity 99%				+/-	133.2178	µg/mL	Stressed
18	Bromochloromethane		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 345600)			+/-	133.0777	µg/mL	Unstressed
	Purity 99%				+/-	133.2245	µg/mL	Stressed
19	Tetrahydrofuran		5,002.3	µg/mL	+/-	29.0835	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot XWFLA)			+/-	266.2087	µg/mL	Unstressed
	Purity 99%				+/-	266.5023	µg/mL	Stressed
20	1,1,1-Trichloroethane		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 71-55-6.SEC	(Lot 1103200)			+/-	133.1443	µg/mL	Unstressed
	Purity 99%				+/-	133.2911	µg/mL	Stressed
21	Cyclohexane		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	133.1243	µg/mL	Unstressed
	Purity 99%				+/-	133.2711	µg/mL	Stressed
22	1,1-Dichloropropene		2,501.1	µg/mL	+/-	14.5419	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 2028500)			+/-	133.1054	µg/mL	Unstressed
	Purity 97%				+/-	133.2522	µg/mL	Stressed
23	Carbon tetrachloride		2,501.9	µg/mL	+/-	14.5465	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	133.1477	µg/mL	Unstressed
	Purity 98%				+/-	133.2946	µg/mL	Stressed

24	n-Heptane (C7)		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot OGM01)			+/-	133.0644	µg/mL	Unstressed
	Purity 99%				+/-	133.2112	µg/mL	Stressed
25	1,2-Dichloroethane		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	133.1443	µg/mL	Unstressed
	Purity 99%				+/-	133.2911	µg/mL	Stressed
26	Benzene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	133.0911	µg/mL	Unstressed
	Purity 99%				+/-	133.2378	µg/mL	Stressed
27	Trichloroethene		2,500.6	µg/mL	+/-	14.5387	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	133.0760	µg/mL	Unstressed
	Purity 98%				+/-	133.2228	µg/mL	Stressed
28	Methylcyclohexane		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot 24MSD-CD)			+/-	133.0711	µg/mL	Unstressed
	Purity 99%				+/-	133.2178	µg/mL	Stressed
29	1,2-Dichloropropane		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot OGG01)			+/-	133.0445	µg/mL	Unstressed
	Purity 99%				+/-	133.1912	µg/mL	Stressed
30	Bromodichloromethane		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 10171168)			+/-	133.1243	µg/mL	Unstressed
	Purity 99%				+/-	133.2711	µg/mL	Stressed
31	1,4-Dioxane		50,000.8	µg/mL	+/-	290.6935	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot CHA4A)			+/-	2,660.9280	µg/mL	Unstressed
	Purity 99%				+/-	2,663.8624	µg/mL	Stressed
32	Dibromomethane		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	133.0777	µg/mL	Unstressed
	Purity 99%				+/-	133.2245	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 7ZLXJ-TJ)			+/-	133.0977	µg/mL	Unstressed
	Purity 99%				+/-	133.2445	µg/mL	Stressed
34	Toluene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	133.0511	µg/mL	Unstressed
	Purity 99%				+/-	133.1979	µg/mL	Stressed
35	Ethyl methacrylate		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	133.0844	µg/mL	Unstressed
	Purity 99%				+/-	133.2312	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,501.6	µg/mL	+/-	14.5444	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot 2ECIC-NM)			+/-	133.1282	µg/mL	Unstressed
	Purity 98%				+/-	133.2750	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 732700)			+/-	133.0977	µg/mL	Unstressed
	Purity 99%				+/-	133.2445	µg/mL	Stressed
38	1,3-Dichloropropane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	133.0844	µg/mL	Unstressed
	Purity 99%				+/-	133.2312	µg/mL	Stressed
39	Tetrachloroethene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	133.0445	µg/mL	Unstressed
	Purity 99%				+/-	133.1912	µg/mL	Stressed

40	Dibromochloromethane		2,501.8	µg/mL	+/-	14.5454	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot I13W021)			+/-	133.1377	µg/mL	Unstressed
	Purity 97%				+/-	133.2845	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,502.1	µg/mL	+/-	14.5472	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 1368400)			+/-	133.1542	µg/mL	Unstressed
	Purity 98%				+/-	133.3011	µg/mL	Stressed
42	Chlorobenzene		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	133.1310	µg/mL	Unstressed
	Purity 99%				+/-	133.2778	µg/mL	Stressed
43	1,1,1,2-Tetrachloroethane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01-QSHR)			+/-	133.0844	µg/mL	Unstressed
	Purity 99%				+/-	133.2312	µg/mL	Stressed
44	Ethylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE-GR)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed
45	m-Xylene		1,250.4	µg/mL	+/-	7.2698	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	66.5422	µg/mL	Unstressed
	Purity 99%				+/-	66.6156	µg/mL	Stressed
46	o-Xylene		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01-KTPK)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
47	p-Xylene		1,251.6	µg/mL	+/-	7.2771	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)			+/-	66.6087	µg/mL	Unstressed
	Purity 99%				+/-	66.6822	µg/mL	Stressed
48	Styrene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	133.0911	µg/mL	Unstressed
	Purity 99%				+/-	133.2378	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
50	Bromoform		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 1039300)			+/-	133.1243	µg/mL	Unstressed
	Purity 99%				+/-	133.2711	µg/mL	Stressed
51	1,1,2,2-Tetrachloroethane		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)			+/-	133.1975	µg/mL	Unstressed
	Purity 99%				+/-	133.3444	µg/mL	Stressed
52	Chloroform		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 67-66-3.SEC	(Lot 1297547)			+/-	133.1310	µg/mL	Unstressed
	Purity 99%				+/-	133.2778	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,501.9	µg/mL	+/-	14.5465	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot OGI01)			+/-	133.1477	µg/mL	Unstressed
	Purity 98%				+/-	133.2946	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,502.7	µg/mL	+/-	14.5510	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-2)			+/-	133.1893	µg/mL	Unstressed
	Purity 97%				+/-	133.3362	µg/mL	Stressed
55	n-Propylbenzene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC-IT)			+/-	133.0445	µg/mL	Unstressed
	Purity 99%				+/-	133.1912	µg/mL	Stressed

56	Bromobenzene **CAS #** 108-86-1.SEC **Purity** 99%	(Lot 2FUHG-EM)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene **CAS #** 95-63-6.SEC **Purity** 99%	(Lot SC7LO-QA)	2,502.4 µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8.SEC **Purity** 99%	(Lot SW8QG-AO)	2,500.5 µg/mL	+/- 14.5381 +/- 133.0711 +/- 133.2178	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4.SEC **Purity** 99%	(Lot P4XHJ-AO)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6.SEC **Purity** 99%	(Lot OGN01)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene **CAS #** 108-67-8.SEC **Purity** 99%	(Lot FGH02-CMLN)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8.SEC **Purity** 99%	(Lot OGN01)	2,500.1 µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	4-Isopropyltoluene (p-cymene) **CAS #** 99-87-6.SEC **Purity** 99%	(Lot 1721700)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1.SEC **Purity** 99%	(Lot FMDFD-KA)	2,501.5 µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7.SEC **Purity** 99%	(Lot YWKDC-MK)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8.SEC **Purity** 99%	(Lot OGN01)	2,500.6 µg/mL	+/- 14.5388 +/- 133.0777 +/- 133.2245	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1.SEC **Purity** 99%	(Lot 4NRGF-OT)	2,500.0 µg/mL	+/- 14.5352 +/- 133.0445 +/- 133.1912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8.SEC **Purity** 97%	(Lot LC00408V)	2,500.5 µg/mL	+/- 14.5383 +/- 133.0732 +/- 133.2199	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1.SEC **Purity** 99%	(Lot OGO01)	2,501.0 µg/mL	+/- 14.5410 +/- 133.0977 +/- 133.2445	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3.SEC **Purity** 97%	(Lot 2009400)	2,501.0 µg/mL	+/- 14.5412 +/- 133.0990 +/- 133.2458	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3.SEC **Purity** 99%	(Lot 4KW3H-OO)	2,500.5 µg/mL	+/- 14.5381 +/- 133.0711 +/- 133.2178	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.4	µg/mL	+/-	14.5490	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	133.1709	µg/mL	Unstressed
	Purity 99%				+/-	133.3177	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)

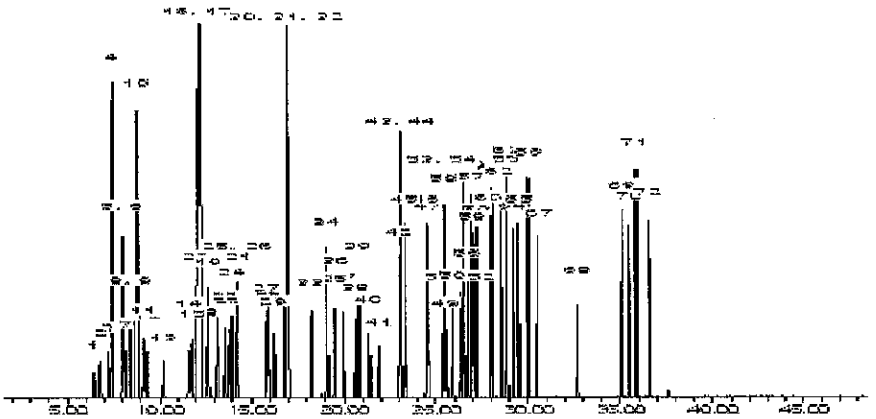
Carrier Gas:
helium-constant pressure 30 psi

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



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

Tyler Brown - QA Analyst

Date Mixed: 07-Jan-2015 **Balance:** 1127510105

Date Passed: 14-Jan-2015

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

Reagent

VOA8260SURRES_00066

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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. : 567650 **Lot No.:** A0100424

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 : January 31, 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%	2,502.2 µg/mL	+/- 14.5480 µg/mL +/- 28.2159 µg/mL +/- 32.4683 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 12K-027) **Purity** 99%	2,501.2 µg/mL	+/- 14.5422 µg/mL +/- 28.2046 µg/mL +/- 32.4554 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot 13I-050) **Purity** 99%	2,500.8 µg/mL	+/- 14.5399 µg/mL +/- 28.2001 µg/mL +/- 32.4502 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 01127COV) **Purity** 99%	2,501.4 µg/mL	+/- 14.5434 µg/mL +/- 28.2069 µg/mL +/- 32.4580 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260SURRES_00077

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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. : 567650 **Lot No.:** A0101000

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 : January 31, 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%	2,509.6 µg/mL	+/- 14.5910 µg/mL +/- 28.2993 µg/mL +/- 32.5644 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 12K-027) **Purity** 99%	2,508.2 µg/mL	+/- 14.5829 µg/mL +/- 28.2836 µg/mL +/- 32.5462 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot 13I-050) **Purity** 99%	2,508.8 µg/mL	+/- 14.5864 µg/mL +/- 28.2903 µg/mL +/- 32.5540 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 01127COV) **Purity** 99%	2,509.8 µg/mL	+/- 14.5922 µg/mL +/- 28.3016 µg/mL +/- 32.5670 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260VARES_00055

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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. : 569724 **Lot No.:** A0109190

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : August 31, 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	5,023.0 µg/mL	+/- 29.4778	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC8935V)		+/- 267.3430	µg/mL	Unstressed
	Purity 99%		+/- 267.6378	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

VOAACRRES2ND_00065

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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. : 568720.sec **Lot No.:** A0111005

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 : September 30, 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	19,749.2 µg/mL	+/- 115.6359	µg/mL	Gravimetric
	CAS # 107-02-8.SEC (Lot 3593700)		+/- 633.2214	µg/mL	Unstressed
	Purity 97%		+/- 736.0506	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VOARESEE1ST_00025

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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. : 568363-FL **Lot No.:** A0109701

Description : Custom EE Standard

Custom EE Standard 5,000µg/mL, P&T Methanol, 1mL/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	3-Chlorobenzotrifluoride **CAS #** 98-15-7 **Purity** 99%	(Lot 21324DO)	5,000.0 µg/mL	+/- 29.3428 +/- 56.5231 +/- 65.0021	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	4-Chlorobenzotrifluoride **CAS #** 98-56-6 **Purity** 99%	(Lot 08507BO)	5,003.0 µg/mL	+/- 29.3604 +/- 56.5570 +/- 65.0411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorobenzotrifluoride **CAS #** 88-16-4 **Purity** 99%	(Lot I0316DQ)	5,009.0 µg/mL	+/- 29.3956 +/- 56.6248 +/- 65.1191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	3-Chlorotoluene **CAS #** 108-41-8 **Purity** 99%	(Lot 13528LX)	5,012.0 µg/mL	+/- 29.4132 +/- 56.6587 +/- 65.1581	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	2,4-Dichlorobenzotrifluoride **CAS #** 320-60-5 **Purity** 99%	(Lot MKBL3552V)	5,013.0 µg/mL	+/- 29.4191 +/- 56.6701 +/- 65.1711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	3,4-Dichlorobenzotrifluoride **CAS #** 328-84-7 **Purity** 99%	(Lot 11105EJV)	5,018.0 µg/mL	+/- 29.4484 +/- 56.7266 +/- 65.2361	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	2,5-Dichlorobenzotrifluoride **CAS #** 320-50-3 **Purity** 99%	(Lot 04415DSV)	5,015.0 µg/mL	+/- 29.4308 +/- 56.6927 +/- 65.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	2,4-Dichlorotoluene		5,021.0	µg/mL	+/-	29.4660	µg/mL	Gravimetric
	CAS # 95-73-8	(Lot 07715JS)			+/-	56.7605	µg/mL	Unstressed
	Purity 99%				+/-	65.2751	µg/mL	Stressed
9	2,5-Dichlorotoluene		5,005.0	µg/mL	+/-	29.3721	µg/mL	Gravimetric
	CAS # 19398-61-9	(Lot 1381346V)			+/-	56.5796	µg/mL	Unstressed
	Purity 99%				+/-	65.0671	µg/mL	Stressed
10	2,6-Dichlorotoluene		5,014.0	µg/mL	+/-	29.4250	µg/mL	Gravimetric
	CAS # 118-69-4	(Lot 16921JS)			+/-	56.6814	µg/mL	Unstressed
	Purity 99%				+/-	65.1841	µg/mL	Stressed
11	3,4-Dichlorotoluene		5,011.0	µg/mL	+/-	29.4074	µg/mL	Gravimetric
	CAS # 95-75-0	(Lot 09419AS)			+/-	56.6474	µg/mL	Unstressed
	Purity 99%				+/-	65.1451	µg/mL	Stressed
12	2,3-Dichlorotoluene		5,016.0	µg/mL	+/-	29.4367	µg/mL	Gravimetric
	CAS # 32768-54-0	(Lot 00317)			+/-	56.7040	µg/mL	Unstressed
	Purity 99%				+/-	65.2101	µg/mL	Stressed
13	2,4,5-Trichlorotoluene		5,000.0	µg/mL	+/-	29.3428	µg/mL	Gravimetric
	CAS # 6639-30-1	(Lot 2490300)			+/-	56.5231	µg/mL	Unstressed
	Purity 99%				+/-	65.0021	µg/mL	Stressed
14	2,3,6-Trichlorotoluene		5,005.0	µg/mL	+/-	29.3721	µg/mL	Gravimetric
	CAS # 2077-46-5	(Lot NT050444)			+/-	56.5796	µg/mL	Unstressed
	Purity 99%				+/-	65.0671	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Method 8260C Low Level

Volatile Organic Compounds (GC/MS) by Method 8260C Low Level

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

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 #
HD-MW-113-0/1-0	180-48259-1	111	109	98	87
HD-MW-127-0/1-0	180-48259-2	111	108	95	87
HD-MW-22-0/1-0	180-48259-3	118	110	97	90
HD-MW-15-0/1-0	180-48259-4	111	107	89	87
HD-MW-15-0/1-0 DL	180-48259-4 DL	96	99	99	82
HD-QC11-0/1-2	180-48259-5	112	108	100	92
	MB 180-155869/5	105	103	99	88
	MB 180-156041/5	105	105	96	85
	MB 180-156189/5	101	101	102	86
	LCS 180-155869/7	106	105	111	101
	LCS 180-156041/8	102	102	106	96
	LCS 180-156189/8	98	98	106	91

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-128
DCA = 1,2-Dichloroethane-d4 (Surr)	64-135
TOL = Toluene-d8 (Surr)	71-118
BFB = 4-Bromofluorobenzene (Surr)	70-118

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.: 180-48259-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 61005007.D

Lab ID: LCS 180-155869/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	12.9	129	50-139	
Vinyl chloride	10.0	10.9	109	53-138	
Bromomethane	10.0	8.96	90	33-150	
Chloroethane	10.0	10.8	108	36-142	
1,1-Dichloroethene	10.0	9.60	96	65-136	
Acetone	20.0	23.0	115	22-150	
Carbon disulfide	10.0	9.74	97	54-132	
Methylene Chloride	10.0	9.67	97	63-129	
trans-1,2-Dichloroethene	10.0	9.82	98	73-126	
Methyl tert-butyl ether	10.0	9.56	96	64-123	
1,1-Dichloroethane	10.0	10.7	107	73-126	
cis-1,2-Dichloroethene	10.0	9.33	93	70-120	
Bromochloromethane	10.0	11.1	111	70-127	
2-Butanone (MEK)	20.0	22.5	113	39-138	
Chloroform	10.0	9.92	99	72-127	
1,1,1-Trichloroethane	10.0	9.71	97	63-133	
Carbon tetrachloride	10.0	11.2	112	55-150	
Benzene	10.0	10.9	109	80-120	
1,2-Dichloroethane	10.0	10.6	106	68-132	
Trichloroethene	10.0	11.7	117	73-120	
1,2-Dichloropropane	10.0	11.3	113	76-124	
Bromodichloromethane	10.0	9.91	99	66-130	
cis-1,3-Dichloropropene	10.0	10.6	106	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	23.0	115	45-145	
Toluene	10.0	10.7	107	80-123	
trans-1,3-Dichloropropene	10.0	10.3	103	65-125	
1,1,2-Trichloroethane	10.0	10.8	108	77-127	
Tetrachloroethene	10.0	11.8	118	70-135	
2-Hexanone	20.0	25.9	130	25-132	
Dibromochloromethane	10.0	11.6	116	60-140	
1,2-Dibromoethane (EDB)	10.0	10.8	108	74-123	
Chlorobenzene	10.0	10.9	109	80-120	
1,1,1,2-Tetrachloroethane	10.0	11.7	117	63-140	
Ethylbenzene	10.0	10.7	107	72-126	
Xylenes, Total	20.0	21.3	107	76-128	
Styrene	10.0	11.4	114	71-127	
Bromoform	10.0	12.6	126	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.5	105	62-125	
Acrylonitrile	100	128	128	30-140	
1,4-Dioxane	200	207	103	10-160	

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.: 180-48259-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 61006008.D

Lab ID: LCS 180-156041/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	12.8	128	50-139	
Vinyl chloride	10.0	11.3	113	53-138	
Bromomethane	10.0	9.06	91	33-150	
Chloroethane	10.0	11.7	117	36-142	
1,1-Dichloroethene	10.0	10.2	102	65-136	
Acetone	20.0	23.5	118	22-150	
Carbon disulfide	10.0	9.60	96	54-132	
Methylene Chloride	10.0	10.6	106	63-129	
trans-1,2-Dichloroethene	10.0	10.3	103	73-126	
Methyl tert-butyl ether	10.0	9.83	98	64-123	
1,1-Dichloroethane	10.0	10.9	109	73-126	
cis-1,2-Dichloroethene	10.0	10.1	101	70-120	
Bromochloromethane	10.0	11.6	116	70-127	
2-Butanone (MEK)	20.0	26.2	131	39-138	
Chloroform	10.0	10.4	104	72-127	
1,1,1-Trichloroethane	10.0	10.2	102	63-133	
Carbon tetrachloride	10.0	10.9	109	55-150	
Benzene	10.0	11.4	114	80-120	
1,2-Dichloroethane	10.0	10.6	106	68-132	
Trichloroethene	10.0	12.0	120	73-120	
1,2-Dichloropropane	10.0	12.0	120	76-124	
Bromodichloromethane	10.0	9.86	99	66-130	
cis-1,3-Dichloropropene	10.0	10.6	106	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	22.0	110	45-145	
Toluene	10.0	10.8	108	80-123	
trans-1,3-Dichloropropene	10.0	9.72	97	65-125	
1,1,2-Trichloroethane	10.0	10.7	107	77-127	
Tetrachloroethene	10.0	11.4	114	70-135	
2-Hexanone	20.0	22.7	113	25-132	
Dibromochloromethane	10.0	10.6	106	60-140	
1,2-Dibromoethane (EDB)	10.0	11.1	111	74-123	
Chlorobenzene	10.0	11.2	112	80-120	
1,1,1,2-Tetrachloroethane	10.0	11.5	115	63-140	
Ethylbenzene	10.0	10.9	109	72-126	
Xylenes, Total	20.0	21.6	108	76-128	
Styrene	10.0	11.6	116	71-127	
Bromoform	10.0	11.3	113	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.6	106	62-125	
Acrylonitrile	100	138	138	30-140	
1,4-Dioxane	200	202	101	10-160	

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.: 180-48259-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 61007008.D

Lab ID: LCS 180-156189/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	11.3	113	50-139	
Vinyl chloride	10.0	9.97	100	53-138	
Bromomethane	10.0	8.04	80	33-150	
Chloroethane	10.0	8.97	90	36-142	
1,1-Dichloroethene	10.0	8.60	86	65-136	
Acetone	20.0	20.8	104	22-150	
Carbon disulfide	10.0	8.38	84	54-132	
Methylene Chloride	10.0	8.72	87	63-129	
trans-1,2-Dichloroethene	10.0	8.87	89	73-126	
Methyl tert-butyl ether	10.0	8.96	90	64-123	
1,1-Dichloroethane	10.0	9.57	96	73-126	
cis-1,2-Dichloroethene	10.0	8.99	90	70-120	
Bromochloromethane	10.0	10.0	100	70-127	
2-Butanone (MEK)	20.0	24.0	120	39-138	
Chloroform	10.0	8.87	89	72-127	
1,1,1-Trichloroethane	10.0	8.02	80	63-133	
Carbon tetrachloride	10.0	8.84	88	55-150	
Benzene	10.0	9.97	100	80-120	
1,2-Dichloroethane	10.0	9.18	92	68-132	
Trichloroethene	10.0	10.4	104	73-120	
1,2-Dichloropropane	10.0	10.7	107	76-124	
Bromodichloromethane	10.0	9.15	92	66-130	
cis-1,3-Dichloropropene	10.0	9.63	96	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	20.8	104	45-145	
Toluene	10.0	10.1	101	80-123	
trans-1,3-Dichloropropene	10.0	8.94	89	65-125	
1,1,2-Trichloroethane	10.0	9.90	99	77-127	
Tetrachloroethene	10.0	10.2	102	70-135	
2-Hexanone	20.0	20.7	103	25-132	
Dibromochloromethane	10.0	9.99	100	60-140	
1,2-Dibromoethane (EDB)	10.0	10.2	102	74-123	
Chlorobenzene	10.0	10.2	102	80-120	
1,1,1,2-Tetrachloroethane	10.0	10.2	102	63-140	
Ethylbenzene	10.0	9.50	95	72-126	
Xylenes, Total	20.0	19.1	95	76-128	
Styrene	10.0	10.5	105	71-127	
Bromoform	10.0	10.8	108	46-150	
1,1,2,2-Tetrachloroethane	10.0	9.90	99	62-125	
Acrylonitrile	100	125	125	30-140	
1,4-Dioxane	200	223	111	10-160	

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.: 180-48259-1

SDG No.:

Lab File ID: 61005005.D Lab Sample ID: MB 180-155869/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHHP6 Date Analyzed: 10/05/2015 11:25

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
	LCS 180-155869/7	61005007.D	10/05/2015 12:29
HD-MW-113-0/1-0	180-48259-1	61005026.D	10/05/2015 20:12

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab File ID: 61006005.D Lab Sample ID: MB 180-156041/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHHP6 Date Analyzed: 10/06/2015 13:28

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
	LCS 180-156041/8	61006008.D	10/06/2015 14:54
HD-QC11-0/1-2	180-48259-5	61006020.D	10/06/2015 19:45
HD-MW-127-0/1-0	180-48259-2	61006021.D	10/06/2015 20:10
HD-MW-22-0/1-0	180-48259-3	61006028.D	10/06/2015 23:00
HD-MW-15-0/1-0	180-48259-4	61006029.D	10/06/2015 23:25

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab File ID: 61007005.D Lab Sample ID: MB 180-156189/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHHP6 Date Analyzed: 10/07/2015 14:07

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
	LCS 180-156189/8	61007008.D	10/07/2015 15:36
HD-MW-15-0/1-0 DL	180-48259-4 DL	61007012.D	10/07/2015 17:13

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab File ID: 60731001.D BFB Injection Date: 07/31/2015

Instrument ID: CHHP6 BFB Injection Time: 12:10

Analysis Batch No.: 149469

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	56.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.8	
173	Less than 2.0 % of mass 174	0.2	(0.3) 1
174	50.0 - 120.00 % of mass 95	62.3	
175	5.0 - 9.0 % of mass 174	4.7	(7.5) 1
176	95.0 - 101.0 % of mass 174	62.6	(100.6) 1
177	5.0 - 9.0 % of mass 176	4.2	(6.7) 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 180-149469/4	60731004.D	07/31/2015	14:00
	ICIS 180-149469/5	60731005.D	07/31/2015	14:24
	IC 180-149469/6	60731006.D	07/31/2015	14:49
	IC 180-149469/7	60731007.D	07/31/2015	15:13
	IC 180-149469/8	60731008.D	07/31/2015	15:37
	IC 180-149469/9	60731009.D	07/31/2015	16:01
	IC 180-149469/10	60731010.D	07/31/2015	16:25
	IC 180-149469/14	60731014.D	07/31/2015	18:02

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab File ID: 61005001.D BFB Injection Date: 10/05/2015

Instrument ID: CHHP6 BFB Injection Time: 09:22

Analysis Batch No.: 155869

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	53.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.4	(0.6) 1
174	50.0 - 120.00 % of mass 95	77.0	
175	5.0 - 9.0 % of mass 174	6.2	(8.0) 1
176	95.0 - 101.0 % of mass 174	77.6	(100.7) 1
177	5.0 - 9.0 % of mass 176	3.9	(5.1) 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 180-155869/2	61005002.D	10/05/2015	10:05
	CCV 180-155869/3	61005003.D	10/05/2015	10:29
	MB 180-155869/5	61005005.D	10/05/2015	11:25
	LCS 180-155869/7	61005007.D	10/05/2015	12:29
HD-MW-113-0/1-0	180-48259-1	61005026.D	10/05/2015	20:12

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab File ID: 61006001.D BFB Injection Date: 10/06/2015

Instrument ID: CHHP6 BFB Injection Time: 11:29

Analysis Batch No.: 156041

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.1	
75	30.0 - 60.0 % of mass 95	58.1	
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	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	79.2	
175	5.0 - 9.0 % of mass 174	6.2	(7.8) 1
176	95.0 - 101.0 % of mass 174	78.8	(99.5) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.5) 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 180-156041/2	61006002.D	10/06/2015	12:10
	CCV 180-156041/3	61006003.D	10/06/2015	12:34
	MB 180-156041/5	61006005.D	10/06/2015	13:28
	LCS 180-156041/8	61006008.D	10/06/2015	14:54
HD-QC11-0/1-2	180-48259-5	61006020.D	10/06/2015	19:45
HD-MW-127-0/1-0	180-48259-2	61006021.D	10/06/2015	20:10
HD-MW-22-0/1-0	180-48259-3	61006028.D	10/06/2015	23:00
HD-MW-15-0/1-0	180-48259-4	61006029.D	10/06/2015	23:25

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab File ID: 61007004.D BFB Injection Date: 10/07/2015

Instrument ID: CHHP6 BFB Injection Time: 11:51

Analysis Batch No.: 156189

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.4	
75	30.0 - 60.0 % of mass 95	58.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.9	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	50.0 - 120.00 % of mass 95	77.0	
175	5.0 - 9.0 % of mass 174	5.9	(7.6) 1
176	95.0 - 101.0 % of mass 174	73.6	(95.6) 1
177	5.0 - 9.0 % of mass 176	5.6	(7.7) 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 180-156189/2	61007002.D	10/07/2015	12:51
	MB 180-156189/5	61007005.D	10/07/2015	14:07
	LCS 180-156189/8	61007008.D	10/07/2015	15:36
HD-MW-15-0/1-0 DL	180-48259-4 DL	61007012.D	10/07/2015	17:13

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Sample No.: CCVIS 180-155869/2 Date Analyzed: 10/05/2015 10:05

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 61005002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		149860	4.24	445228	7.29	102974	10.40
UPPER LIMIT		299720	4.74	890456	7.79	205948	10.90
LOWER LIMIT		74930	3.74	222614	6.79	51487	9.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-155869/3		167523	4.23	410675	7.29	91258	10.40
MB 180-155869/5		183859	4.24	425468	7.29	103279	10.40
LCS 180-155869/7		175396	4.24	416212	7.28	93412	10.40
180-48259-1	HD-MW-113-0/1-0	168697	4.24	396542	7.29	102896	10.40

TBA = TBA-d9 (IS)
FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5

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 8260C

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Sample No.: CCVIS 180-155869/2 Date Analyzed: 10/05/2015 10:05

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 61005002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		183514	12.75				
UPPER LIMIT		367028	13.25				
LOWER LIMIT		91757	12.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-155869/3		143774	12.75				
MB 180-155869/5		169357	12.75				
LCS 180-155869/7		168494	12.75				
180-48259-1	HD-MW-113-0/1-0	162871	12.75				

DCB = 1,4-Dichlorobenzene-d4

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 8260C

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Sample No.: CCVIS 180-156041/2 Date Analyzed: 10/06/2015 12:10

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 61006002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		154315	4.24	452992	7.29	106914	10.40
UPPER LIMIT		308630	4.74	905984	7.79	213828	10.90
LOWER LIMIT		77158	3.74	226496	6.79	53457	9.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-156041/3		183934	4.23	434269	7.29	95111	10.40
MB 180-156041/5		197909	4.23	418930	7.29	111825	10.40
LCS 180-156041/8		190442	4.25	412905	7.29	98302	10.40
180-48259-5	HD-QC11-0/1-2	187289	4.24	394397	7.29	103142	10.40
180-48259-2	HD-MW-127-0/1-0	188037	4.24	405119	7.29	113237	10.40
180-48259-3	HD-MW-22-0/1-0	189655	4.23	390543	7.29	109194	10.40
180-48259-4	HD-MW-15-0/1-0	188439	4.25	400775	7.29	115846	10.40

TBA = TBA-d9 (IS)
FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5

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 8260C

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Sample No.: CCVIS 180-156041/2 Date Analyzed: 10/06/2015 12:10

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 61006002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		183046	12.75				
UPPER LIMIT		366092	13.25				
LOWER LIMIT		91523	12.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-156041/3		155752	12.75				
MB 180-156041/5		182489	12.75				
LCS 180-156041/8		180733	12.75				
180-48259-5	HD-QC11-0/1-2	183471	12.75				
180-48259-2	HD-MW-127-0/1-0	186161	12.75				
180-48259-3	HD-MW-22-0/1-0	185285	12.75				
180-48259-4	HD-MW-15-0/1-0	188945	12.75				

DCB = 1,4-Dichlorobenzene-d4

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 8260C

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Sample No.: CCVIS 180-156189/2 Date Analyzed: 10/07/2015 12:51

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 61007002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		168577	4.25	430181	7.28	101182	10.40
UPPER LIMIT		337154	4.75	860362	7.78	202364	10.90
LOWER LIMIT		84289	3.75	215091	6.78	50591	9.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156189/5		185013	4.22	465495	7.29	112798	10.40
LCS 180-156189/8		207975	4.25	460649	7.29	105123	10.40
180-48259-4 DL	HD-MW-15-0/1-0 DL	188253	4.24	477364	7.29	116699	10.40

TBA = TBA-d9 (IS)
FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5

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 8260C

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Sample No.: CCVIS 180-156189/2 Date Analyzed: 10/07/2015 12:51

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 61007002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		190331	12.75				
UPPER LIMIT		380662	13.25				
LOWER LIMIT		95166	12.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156189/5		182602	12.75				
LCS 180-156189/8		187985	12.75				
180-48259-4 DL	HD-MW-15-0/1-0 DL	181241	12.75				

DCB = 1,4-Dichlorobenzene-d4

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-113-0/1-0 | Lab Sample ID: 180-48259-1

Matrix: Water | Lab File ID: 61005026.D

Analysis Method: 8260C | Date Collected: 09/29/2015 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/05/2015 20:12

Soil Aliquot Vol: | Dilution Factor: 25

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 155869 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	25	U	25	7.1
75-01-4	Vinyl chloride	25	U	25	5.7
74-83-9	Bromomethane	25	U	25	7.8
75-00-3	Chloroethane	25	U	25	5.4
75-35-4	1,1-Dichloroethene	25		25	7.4
67-64-1	Acetone	130	U	130	63
75-15-0	Carbon disulfide	25	U	25	5.3
75-09-2	Methylene Chloride	25	U	25	3.1
156-60-5	trans-1,2-Dichloroethene	25	U	25	4.2
1634-04-4	Methyl tert-butyl ether	25	U	25	4.6
75-34-3	1,1-Dichloroethane	6.2	J	25	2.9
156-59-2	cis-1,2-Dichloroethene	620		25	5.9
74-97-5	Bromochloromethane	25	U	25	4.5
78-93-3	2-Butanone (MEK)	130	U	130	14
67-66-3	Chloroform	25	U	25	4.3
71-55-6	1,1,1-Trichloroethane	15	J	25	7.2
56-23-5	Carbon tetrachloride	25	U	25	3.4
71-43-2	Benzene	25	U	25	2.6
107-06-2	1,2-Dichloroethane	25	U	25	5.3
79-01-6	Trichloroethene	880		25	3.6
78-87-5	1,2-Dichloropropane	25	U	25	2.4
75-27-4	Bromodichloromethane	25	U	25	3.3
10061-01-5	cis-1,3-Dichloropropene	25	U	25	4.7
108-10-1	4-Methyl-2-pentanone (MIBK)	130	U	130	13
108-88-3	Toluene	25	U	25	3.8
10061-02-6	trans-1,3-Dichloropropene	25	U	25	3.7
79-00-5	1,1,2-Trichloroethane	25	U	25	5.0
127-18-4	Tetrachloroethene	31		25	3.7
591-78-6	2-Hexanone	130	U	130	4.0
124-48-1	Dibromochloromethane	25	U	25	3.4
106-93-4	1,2-Dibromoethane (EDB)	25	U	25	4.5
108-90-7	Chlorobenzene	25	U	25	3.4
630-20-6	1,1,1,2-Tetrachloroethane	25	U	25	6.9
100-41-4	Ethylbenzene	25	U	25	5.7
1330-20-7	Xylenes, Total	75	U	75	12
100-42-5	Styrene	25	U	25	2.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-113-0/1-0 | Lab Sample ID: 180-48259-1

Matrix: Water | Lab File ID: 61005026.D

Analysis Method: 8260C | Date Collected: 09/29/2015 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/05/2015 20:12

Soil Aliquot Vol: | Dilution Factor: 25

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 155869 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	25	U	25	4.8
79-34-5	1,1,2,2-Tetrachloroethane	25	U	25	5.0
107-13-1	Acrylonitrile	500	U	500	14
123-91-1	1,4-Dioxane	5000	U	5000	860

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		64-135
2037-26-5	Toluene-d8 (Surr)	98		71-118
460-00-4	4-Bromofluorobenzene (Surr)	87		70-118
1868-53-7	Dibromofluoromethane (Surr)	111		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005026.D
Lims ID: 180-48259-C-1 Lab Sample ID: 180-48259-1
Client ID: HD-MW-113-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2015 20:12:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 25.0000
Sample Info: 180-48259-C-1, 25x
Misc. Info.: 180-0008826-026
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 06-Oct-2015 09:34:23 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: fergusond Date: 06-Oct-2015 09:34:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.238	4.230	0.008	85	168697	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.290	0.002	97	396542	50.0	
* 3 Chlorobenzene-d5	119	10.401	10.399	0.002	90	102896	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.747	0.002	98	162871	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.550	0.006	91	101604	55.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.928	0.005	70	160090	54.3	
$ 7 Toluene-d8 (Surr)	98	8.941	8.941	-0.001	95	399595	49.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.587	0.000	85	156274	43.4	
12 Chloromethane	50		1.769				ND	
13 Vinyl chloride	62		1.903				ND	
15 Bromomethane	94		2.243				ND	
16 Chloroethane	64		2.377				ND	
22 1,1-Dichloroethene	96	3.350	3.326	0.024	95	10081	5.05	
24 Acetone	43		3.430				ND	
26 Carbon disulfide	76		3.630				ND	
31 Methylene Chloride	84		4.117				ND	
33 Acrylonitrile	53		4.500				ND	
34 trans-1,2-Dichloroethene	96		4.555				ND	
35 Methyl tert-butyl ether	73		4.573				ND	
37 1,1-Dichloroethane	63	5.187	5.194	-0.007	0	5084	1.23	M
43 cis-1,2-Dichloroethene	96	5.947	5.942	0.005	83	312008	124.6	
44 2-Butanone (MEK)	43		5.948				ND	
48 Chlorobromomethane	128		6.228				ND	
50 Chloroform	83	6.379	6.368	0.011	1	1113	0.2719	
51 1,1,1-Trichloroethane	97	6.538	6.532	0.006	90	9314	3.08	
53 Carbon tetrachloride	117		6.715				ND	
56 Benzene	78		6.940				ND	
57 1,2-Dichloroethane	62		7.013				ND	
61 Trichloroethene	130	7.681	7.676	0.005	96	338524	175.6	
64 1,2-Dichloropropane	63		7.950				ND	
65 1,4-Dioxane	88		8.023				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.229				ND	
71 cis-1,3-Dichloropropene	75		8.680				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
73 Toluene	91		9.008				ND	
74 trans-1,3-Dichloropropene	75		9.257				ND	
76 1,1,2-Trichloroethane	97	9.433	9.452	-0.019	1	642	0.2924	
77 Tetrachloroethene	164	9.531	9.525	0.006	95	11323	6.25	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.823				ND	
82 Ethylene Dibromide	107		9.939				ND	
84 Chlorobenzene	112		10.426				ND	
86 1,1,1,2-Tetrachloroethane	131		10.523				ND	
87 Ethylbenzene	106		10.529				ND	
88 m-Xylene & p-Xylene	106		10.657				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.058				ND	
91 Bromoform	173		11.247				ND	
96 1,1,2,2-Tetrachloroethane	83		11.715				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 06-Oct-2015 09:34:24 Chrom Revision: 2.2 08-Sep-2015 13:41:46

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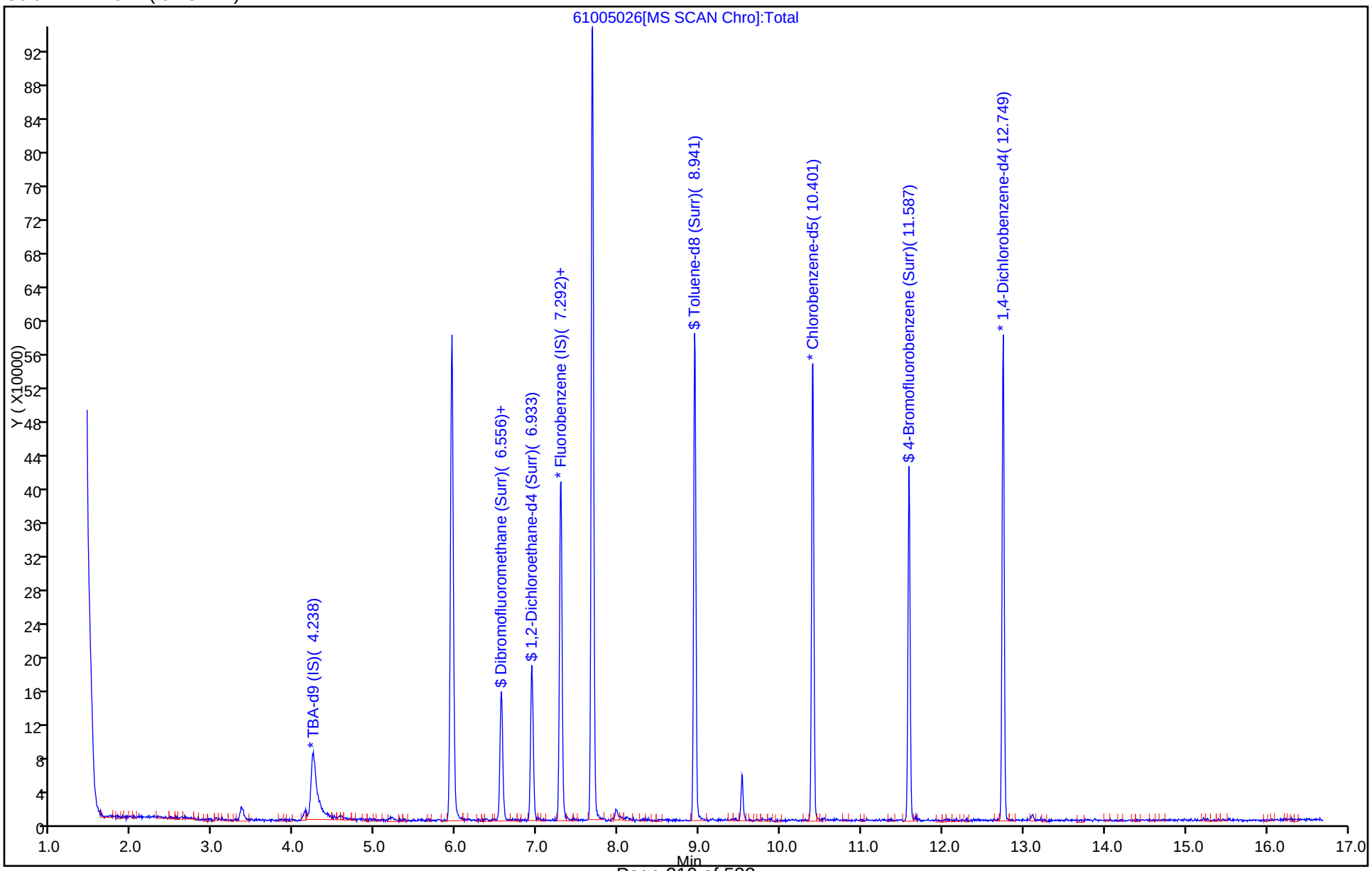
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005026.D

Injection Date:	05-Oct-2015 20:12:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48259-C-1	Lab Sample ID:	180-48259-1	Worklist Smp#:	26
Client ID:	HD-MW-113-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	25.0000	ALS Bottle#:	26
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



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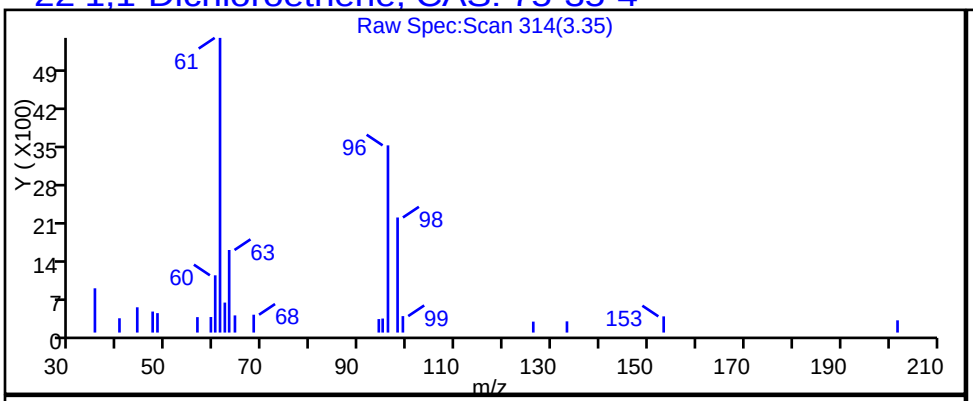
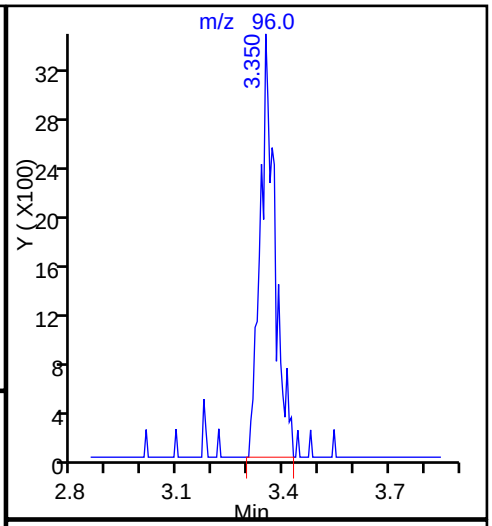
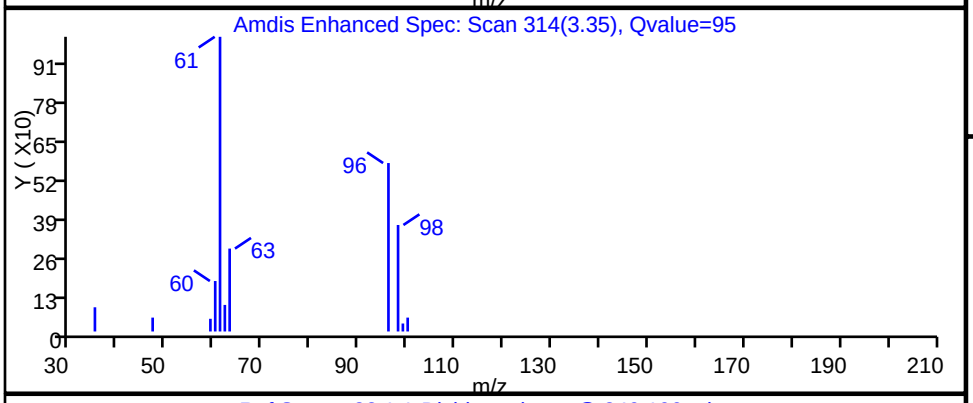
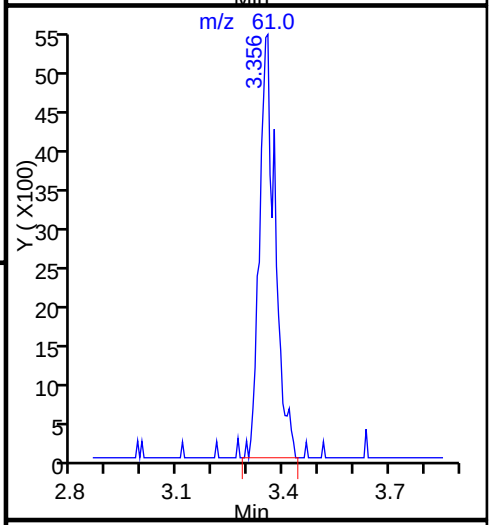
Injection Date:	05-Oct-2015 20:12:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-1	Lab Sample ID:	180-48259-1		
Client ID:	HD-MW-113-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

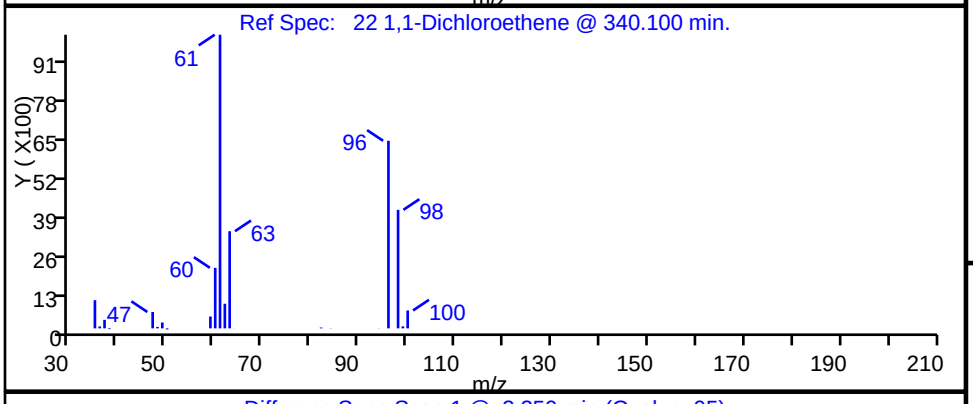
22 1,1-Dichloroethene, CAS: 75-35-4

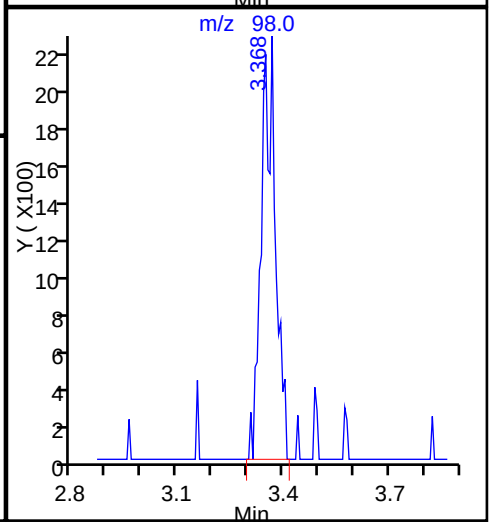


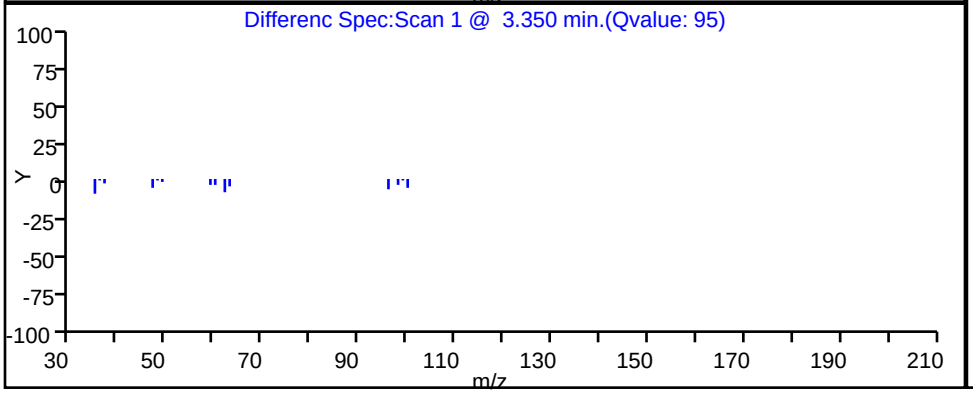












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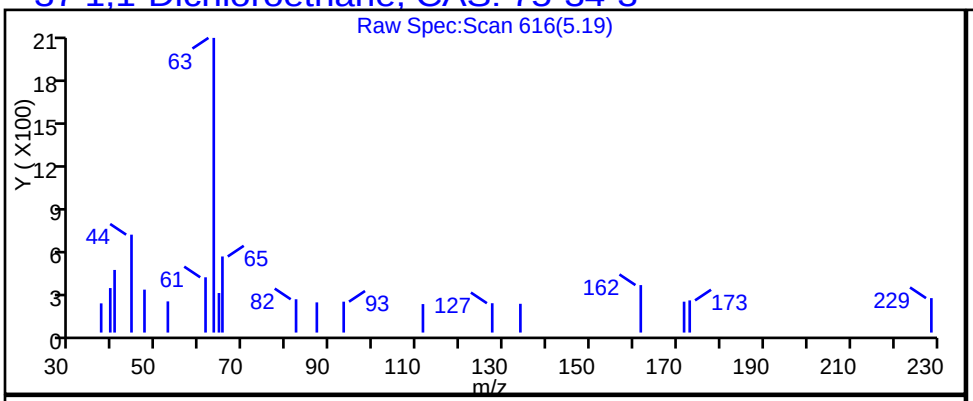
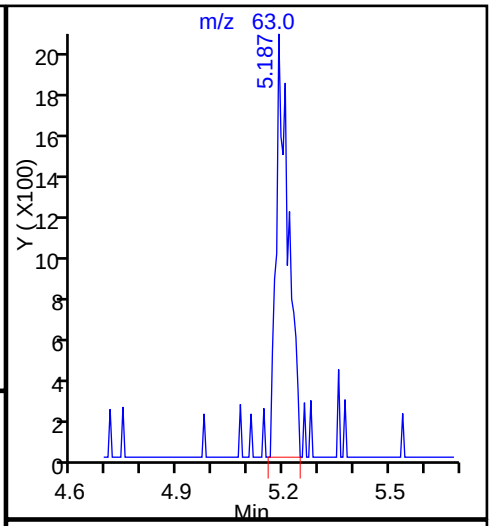
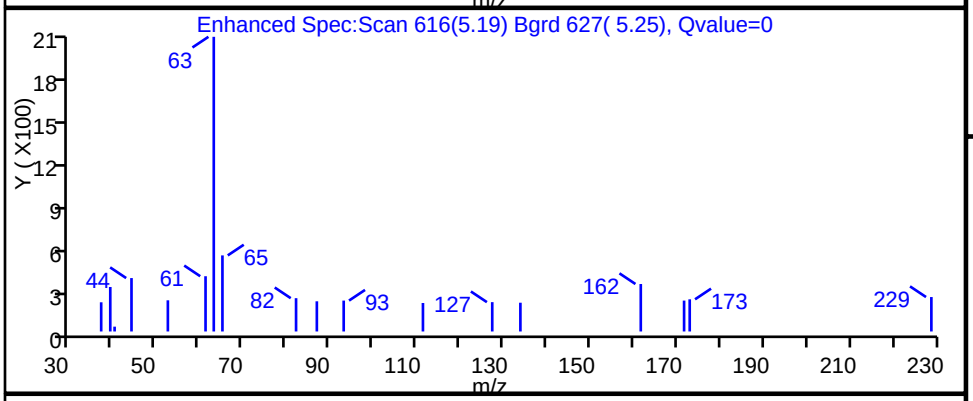
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005026.D

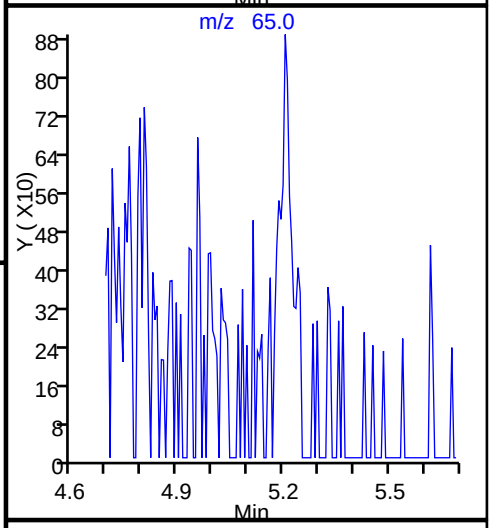
Injection Date:	05-Oct-2015 20:12:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-1	Lab Sample ID:	180-48259-1		
Client ID:	HD-MW-113-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

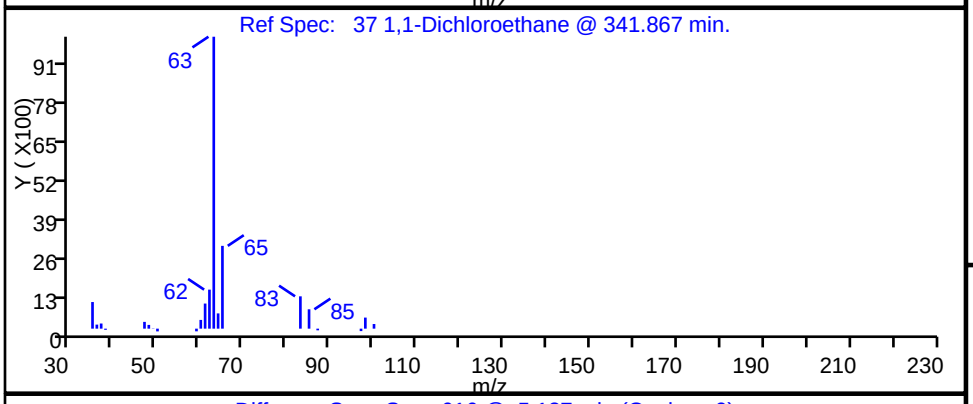
37 1,1-Dichloroethane, CAS: 75-34-3

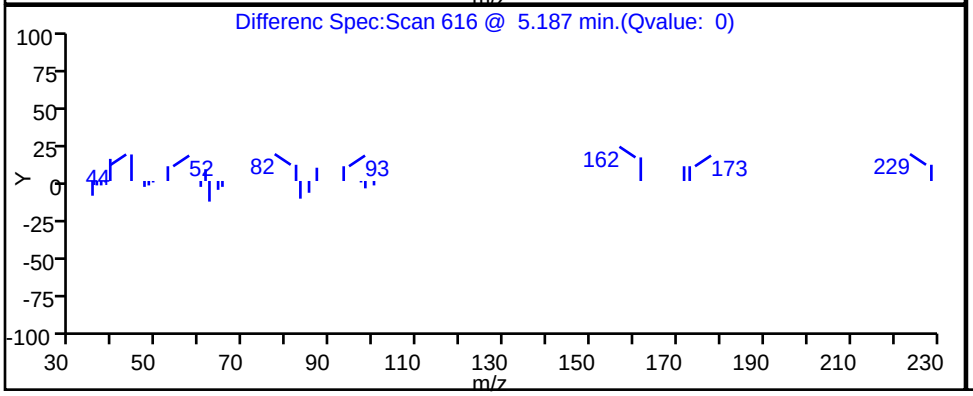


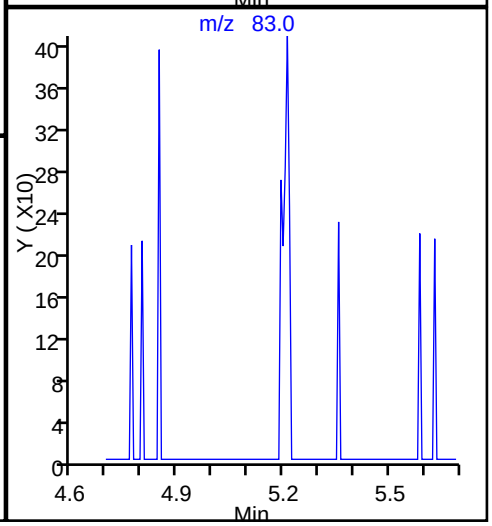












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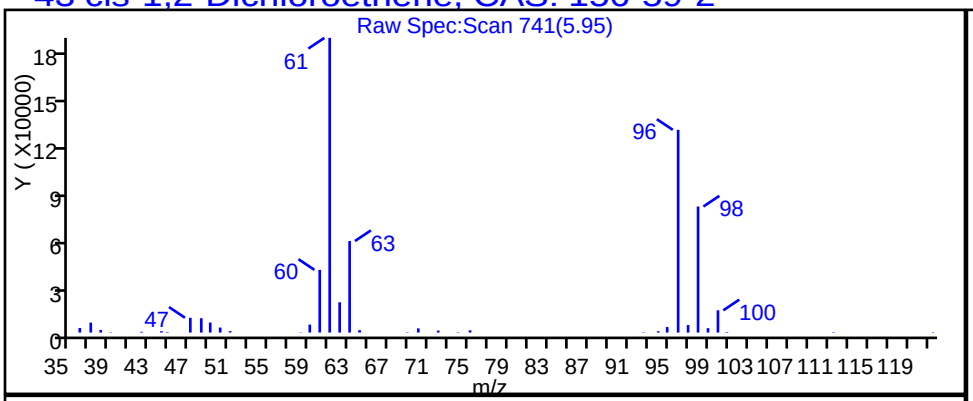
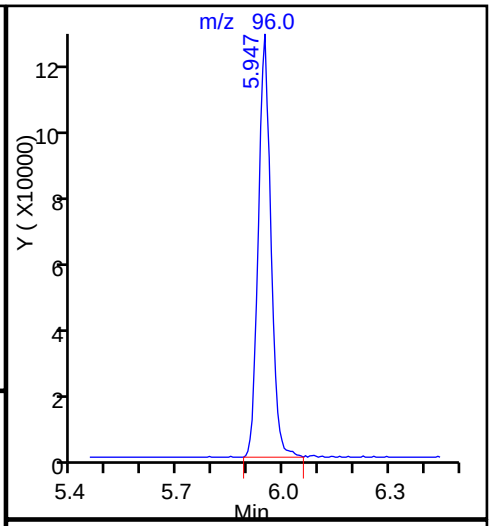
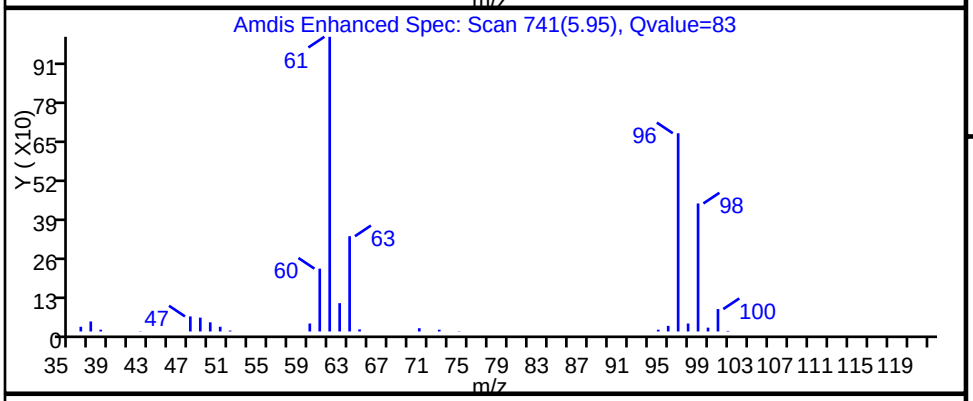
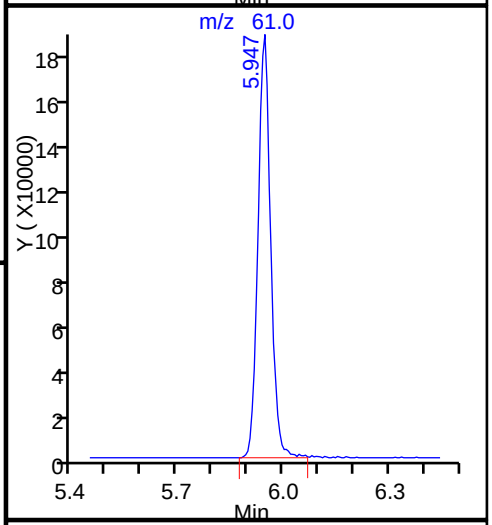
Injection Date:	05-Oct-2015 20:12:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-1	Lab Sample ID:	180-48259-1		
Client ID:	HD-MW-113-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

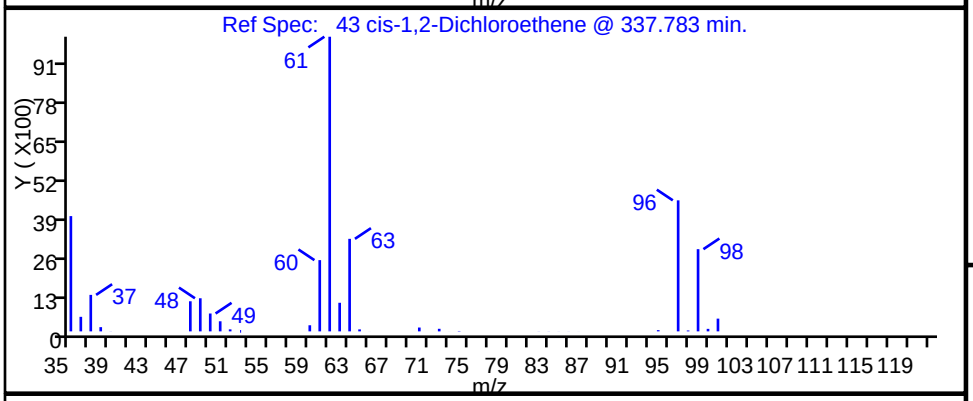
43 cis-1,2-Dichloroethene, CAS: 156-59-2

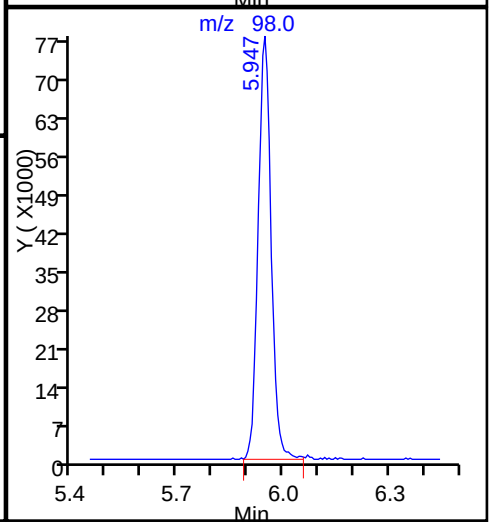


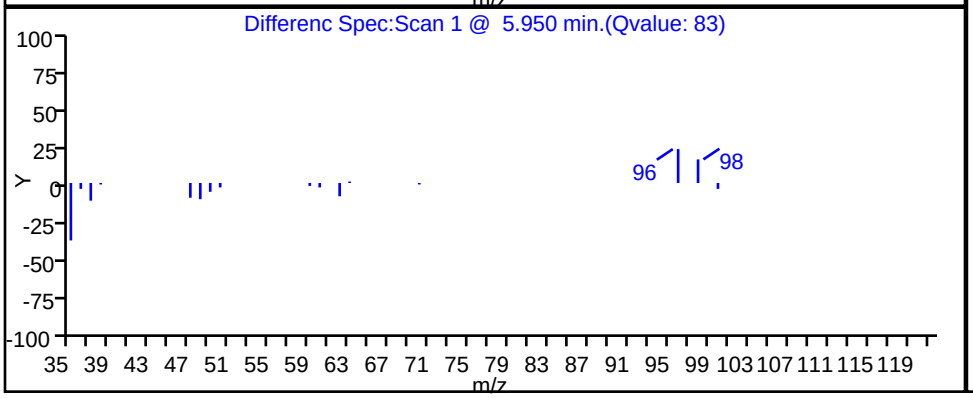












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Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005026.D				
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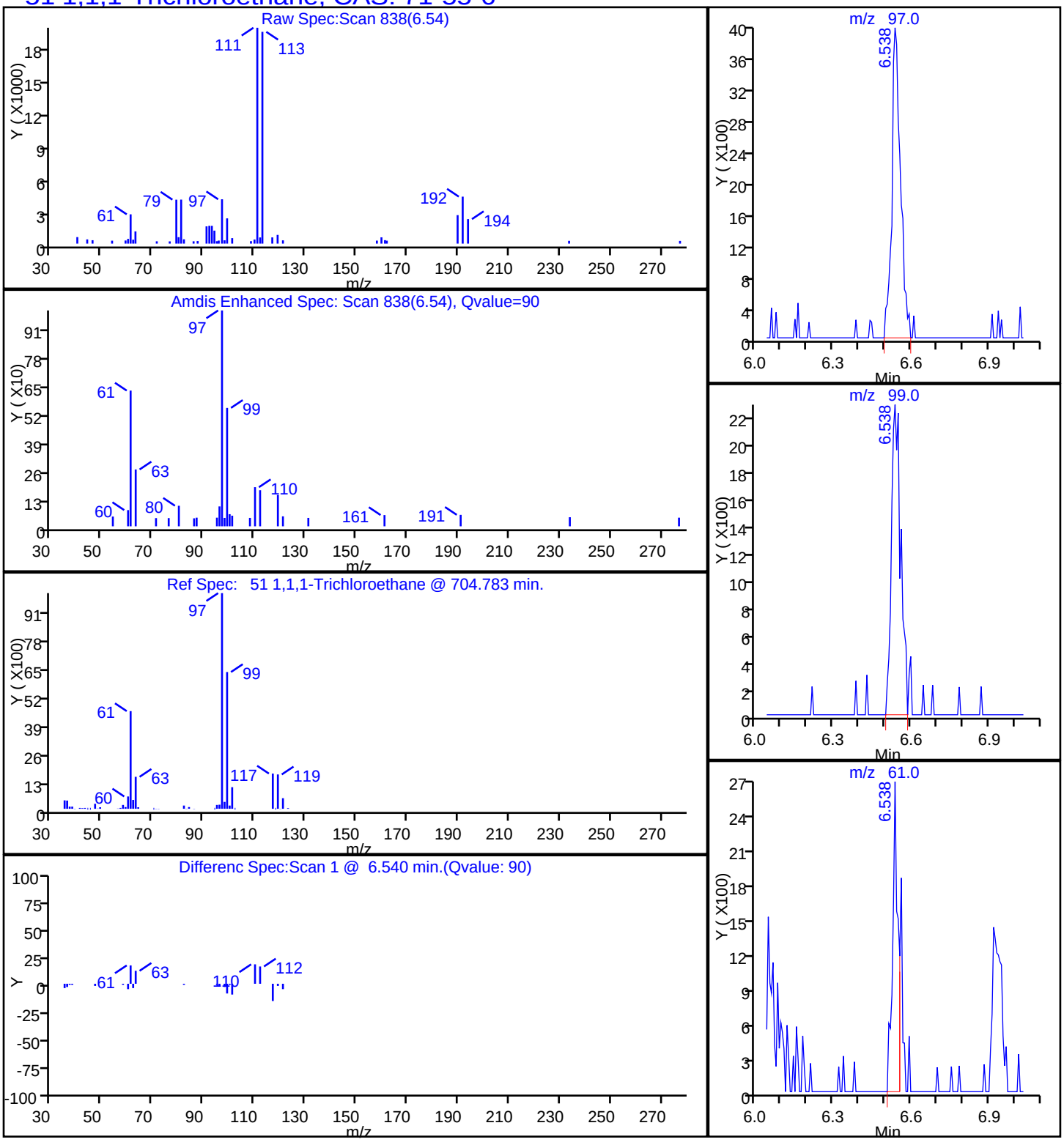
Lims ID:	180-48259-C-1	Lab Sample ID:	180-48259-1		
Client ID:	HD-MW-113-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

51 1,1,1-Trichloroethane, CAS: 71-55-6



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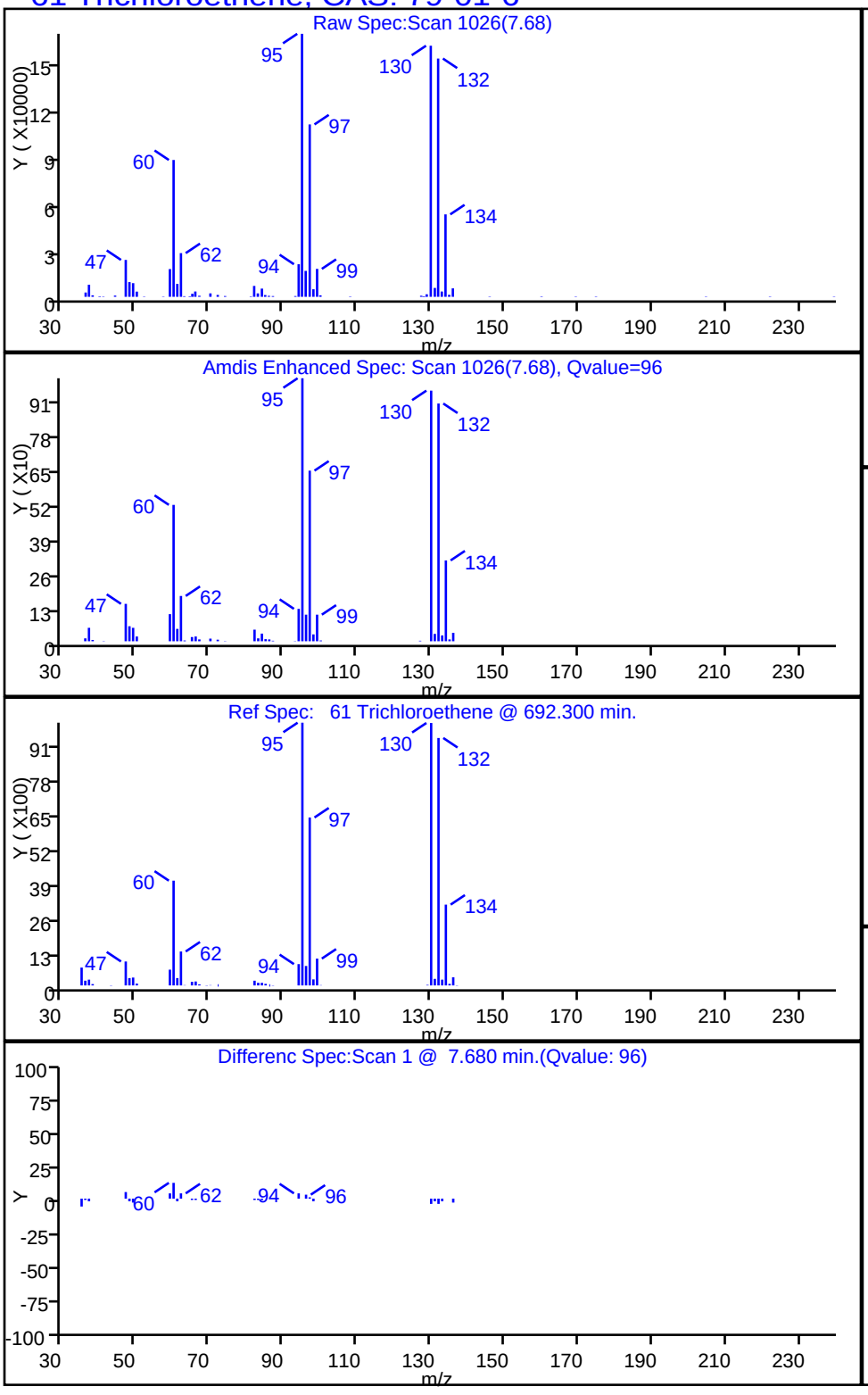
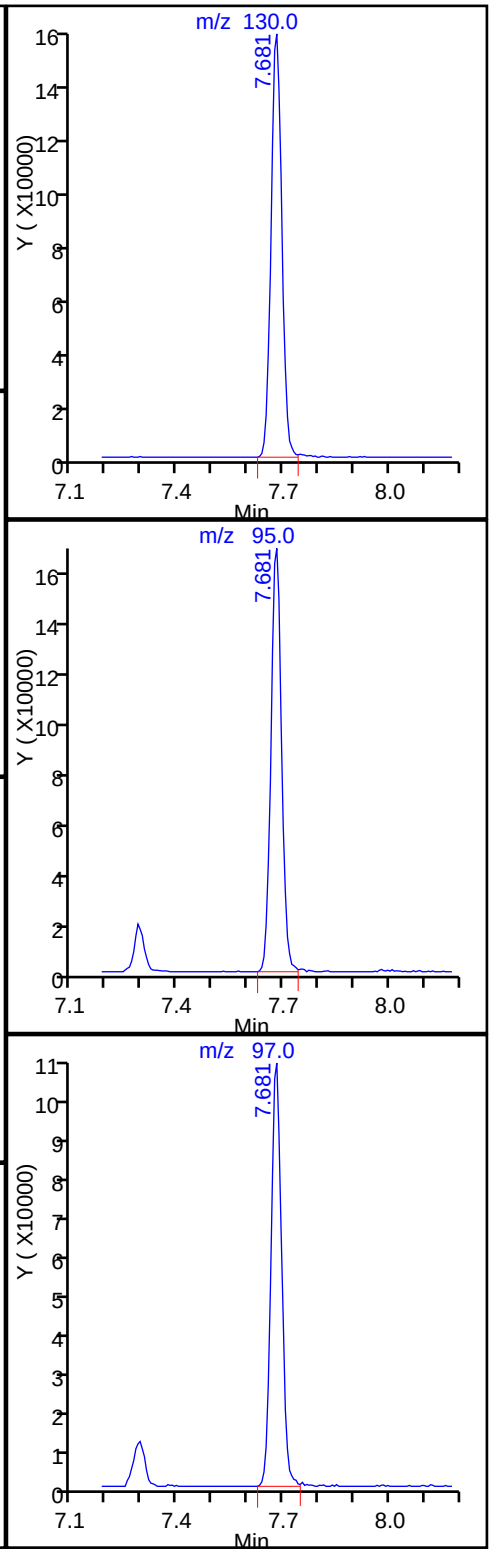
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

61 Trichloroethene, CAS: 79-01-6





Report Date: 06-Oct-2015 09:34:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005026.D

Injection Date:	05-Oct-2015 20:12:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-1	Lab Sample ID:	180-48259-1		
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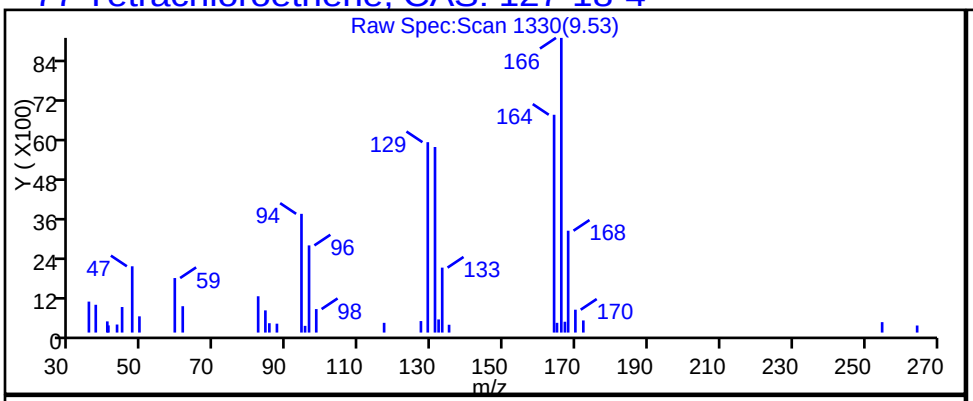
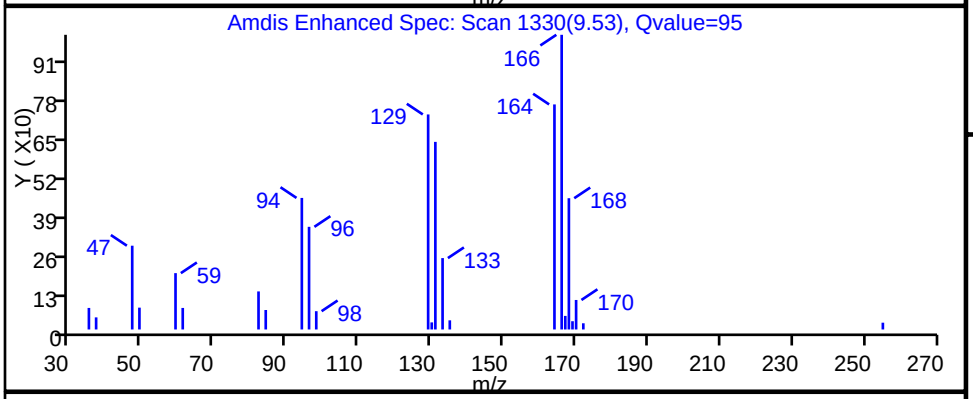
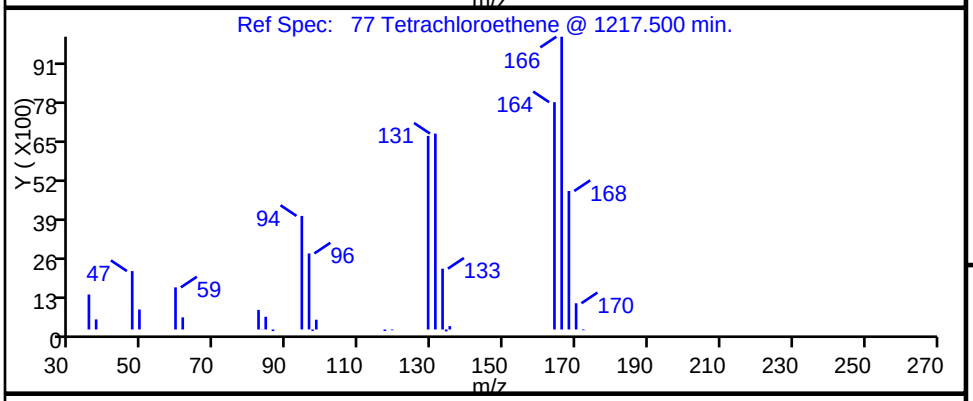
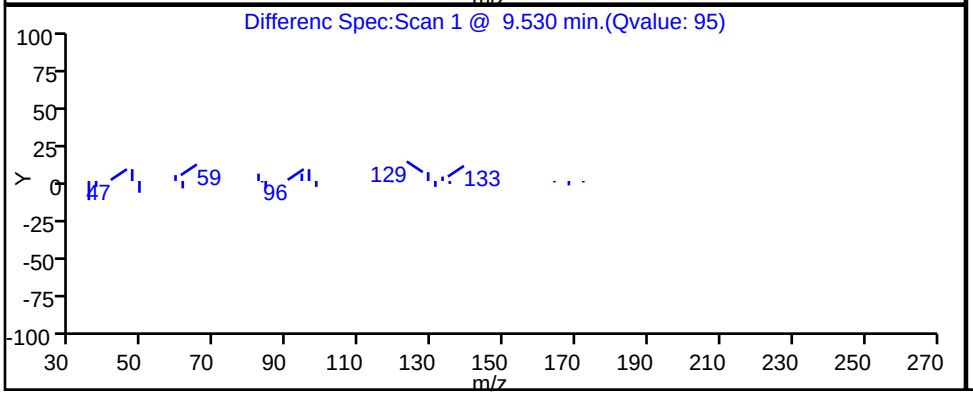
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

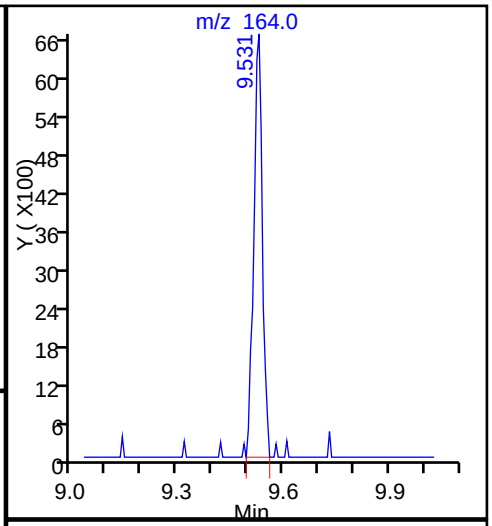
77 Tetrachloroethene, CAS: 127-18-4

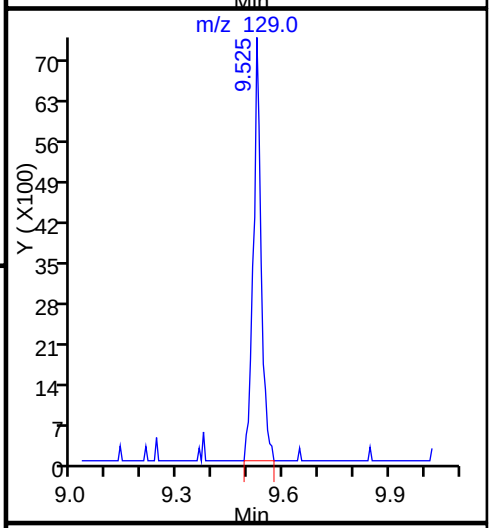


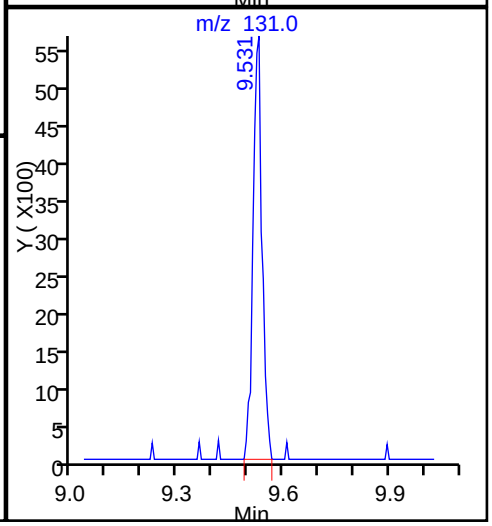












Manual Integration/User Assign Peak Report

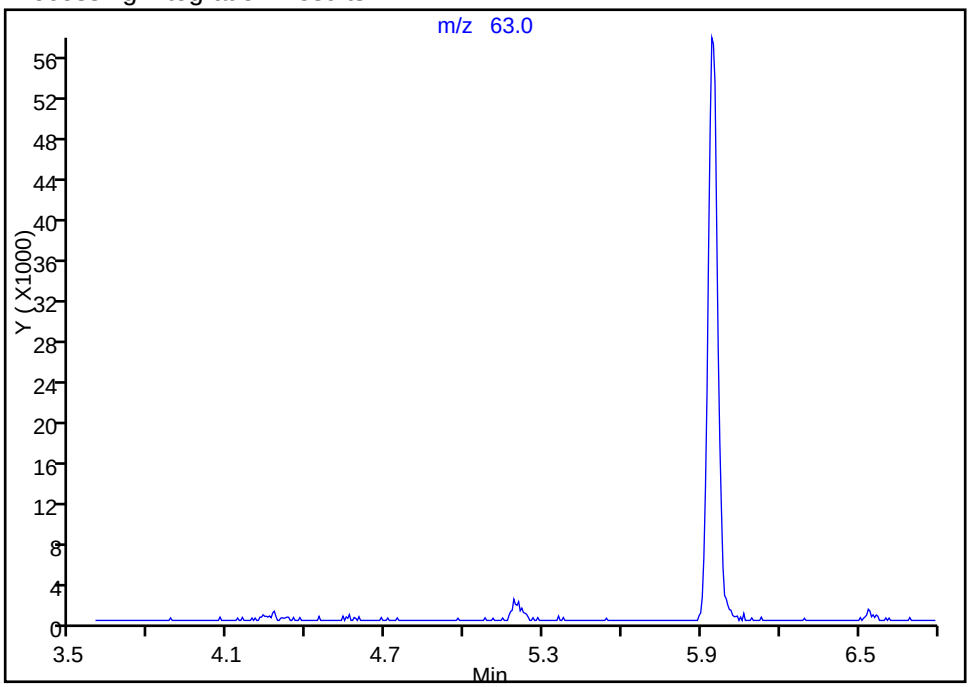
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005026.D				
Injection Date:	05-Oct-2015 20:12:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-1	Lab Sample ID:	180-48259-1		
Client ID:	HD-MW-113-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

37 1,1-Dichloroethane, CAS: 75-34-3

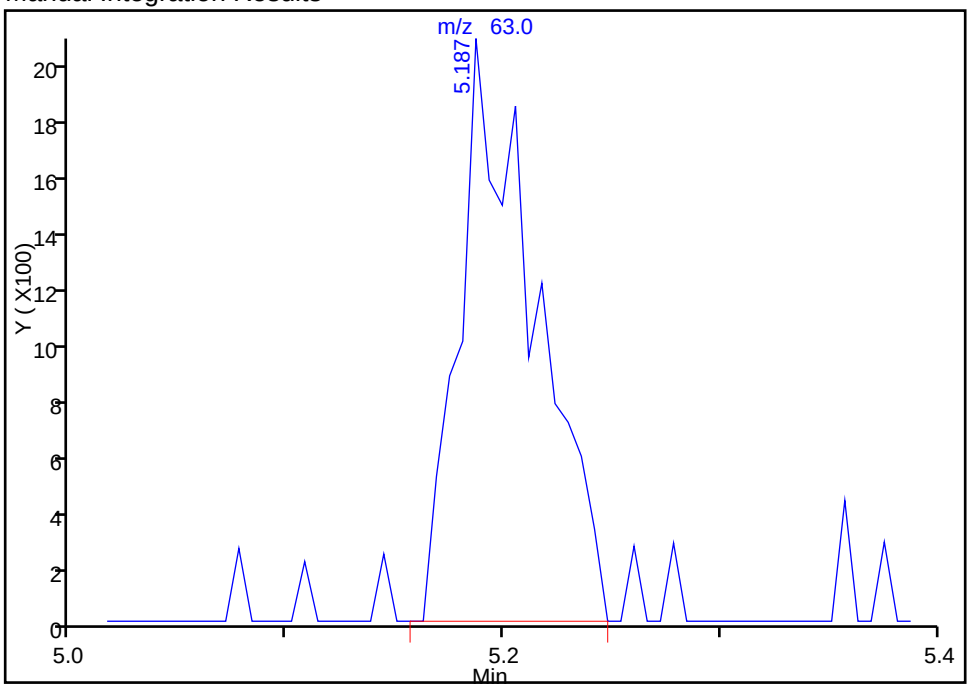
Not Detected
Expected RT: 5.19

Processing Integration Results



Manual Integration Results

RT: 5.19
Area: 5084
Amount: 1.232796
Amount Units: ng



Reviewer: fergusond, 06-Oct-2015 09:34:22
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-127-0/1-0 | Lab Sample ID: 180-48259-2

Matrix: Water | Lab File ID: 61006021.D

Analysis Method: 8260C | Date Collected: 09/29/2015 15:32

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 20:10

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	10	U	10	2.8
75-01-4	Vinyl chloride	10	U	10	2.3
74-83-9	Bromomethane	10	U	10	3.1
75-00-3	Chloroethane	10	U	10	2.1
75-35-4	1,1-Dichloroethene	5.7	J	10	3.0
67-64-1	Acetone	50	U ^c	50	25
75-15-0	Carbon disulfide	10	U	10	2.1
75-09-2	Methylene Chloride	10	U	10	1.3
156-60-5	trans-1,2-Dichloroethene	1.8	J	10	1.7
1634-04-4	Methyl tert-butyl ether	10	U	10	1.8
75-34-3	1,1-Dichloroethane	3.2	J	10	1.2
156-59-2	cis-1,2-Dichloroethene	290		10	2.4
74-97-5	Bromochloromethane	10	U	10	1.8
78-93-3	2-Butanone (MEK)	50	U ^c	50	5.5
67-66-3	Chloroform	10	U	10	1.7
71-55-6	1,1,1-Trichloroethane	5.6	J	10	2.9
56-23-5	Carbon tetrachloride	10	U	10	1.4
71-43-2	Benzene	10	U	10	1.1
107-06-2	1,2-Dichloroethane	10	U	10	2.1
79-01-6	Trichloroethene	190		10	1.4
78-87-5	1,2-Dichloropropane	10	U	10	0.95
75-27-4	Bromodichloromethane	10	U	10	1.3
10061-01-5	cis-1,3-Dichloropropene	10	U	10	1.9
108-10-1	4-Methyl-2-pentanone (MIBK)	50	U	50	5.3
108-88-3	Toluene	10	U	10	1.5
10061-02-6	trans-1,3-Dichloropropene	10	U	10	1.5
79-00-5	1,1,2-Trichloroethane	10	U	10	2.0
127-18-4	Tetrachloroethene	14		10	1.5
591-78-6	2-Hexanone	50	U	50	1.6
124-48-1	Dibromochloromethane	10	U	10	1.4
106-93-4	1,2-Dibromoethane (EDB)	10	U	10	1.8
108-90-7	Chlorobenzene	10	U	10	1.4
630-20-6	1,1,1,2-Tetrachloroethane	10	U	10	2.8
100-41-4	Ethylbenzene	10	U	10	2.3
1330-20-7	Xylenes, Total	30	U	30	4.9
100-42-5	Styrene	10	U	10	0.97

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-127-0/1-0 | Lab Sample ID: 180-48259-2

Matrix: Water | Lab File ID: 61006021.D

Analysis Method: 8260C | Date Collected: 09/29/2015 15:32

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 20:10

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	10	U	10	1.9
79-34-5	1,1,2,2-Tetrachloroethane	10	U	10	2.0
107-13-1	Acrylonitrile	200	U	200	5.5
123-91-1	1,4-Dioxane	2000	U	2000	340

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-135
2037-26-5	Toluene-d8 (Surr)	95		71-118
460-00-4	4-Bromofluorobenzene (Surr)	87		70-118
1868-53-7	Dibromofluoromethane (Surr)	111		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006021.D
Lims ID: 180-48259-C-2 Lab Sample ID: 180-48259-2
Client ID: HD-MW-127-0/1-0
Sample Type: Client
Inject. Date: 06-Oct-2015 20:10:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 180-48259-C-2, 10x
Misc. Info.: 180-0008851-021
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 07-Oct-2015 09:07:35 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: fergusond Date: 07-Oct-2015 09:07:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.241	4.230	0.011	90	188037	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	405119	50.0	
* 3 Chlorobenzene-d5	119	10.397	10.399	-0.002	91	113237	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.747	-0.001	97	186161	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.556	-0.003	93	103854	55.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.933	-0.003	70	162357	53.9	
$ 7 Toluene-d8 (Surr)	98	8.944	8.941	0.003	94	422661	47.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.590	11.581	0.009	85	172883	43.6	
12 Chloromethane	50		1.774				ND	
13 Vinyl chloride	62		1.902				ND	
15 Bromomethane	94		2.249				ND	
16 Chloroethane	64		2.389				ND	
22 1,1-Dichloroethene	96	3.347	3.338	0.009	93	5855	2.87	
24 Acetone	43		3.423				ND	
26 Carbon disulfide	76		3.630				ND	
31 Methylene Chloride	84		4.129				ND	
33 Acrylonitrile	53		4.500				ND	
35 Methyl tert-butyl ether	73		4.567				ND	
34 trans-1,2-Dichloroethene	96	4.570	4.567	0.003	45	2098	0.8915	
37 1,1-Dichloroethane	63	5.208	5.193	0.015	1	6669	1.58	M
43 cis-1,2-Dichloroethene	96	5.944	5.942	0.002	84	369611	144.4	
44 2-Butanone (MEK)	43		5.942				ND	
48 Chlorobromomethane	128		6.228				ND	
50 Chloroform	83	6.382	6.374	0.008	1	1399	0.3345	
51 1,1,1-Trichloroethane	97	6.541	6.538	0.003	90	8617	2.79	
53 Carbon tetrachloride	117	6.717	6.714	0.003	39	1105	0.5063	
56 Benzene	78		6.939				ND	
57 1,2-Dichloroethane	62		7.018				ND	
61 Trichloroethene	130	7.684	7.675	0.009	96	189222	96.1	
64 1,2-Dichloropropane	63		7.949				ND	
65 1,4-Dioxane	88		8.034				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.229				ND	
71 cis-1,3-Dichloropropene	75		8.673				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.825				ND	
73 Toluene	91		9.008				ND	
74 trans-1,3-Dichloropropene	75		9.251				ND	
76 1,1,2-Trichloroethane	97		9.452				ND	
77 Tetrachloroethene	164	9.528	9.525	0.003	92	13988	7.02	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.823				ND	
82 Ethylene Dibromide	107		9.938				ND	
84 Chlorobenzene	112		10.425				ND	
86 1,1,1,2-Tetrachloroethane	131		10.522				ND	
87 Ethylbenzene	106		10.529				ND	
88 m-Xylene & p-Xylene	106		10.662				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.058				ND	
91 Bromoform	173		11.246				ND	
96 1,1,2,2-Tetrachloroethane	83		11.715				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

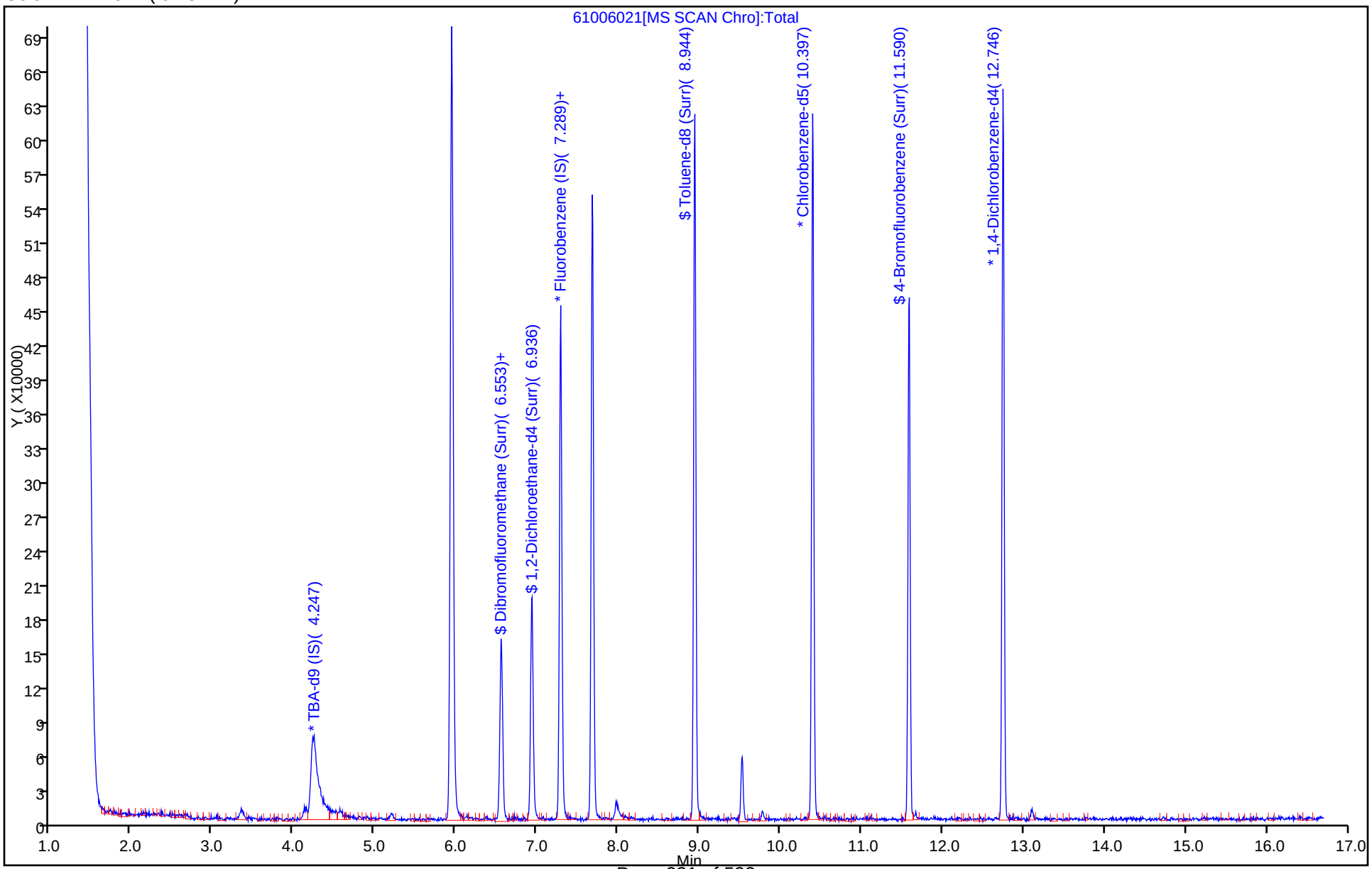
Report Date: 07-Oct-2015 09:07:36 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006021.D

Injection Date:	06-Oct-2015 20:10:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48259-C-2	Lab Sample ID:	180-48259-2	Worklist Smp#:	21
Client ID:	HD-MW-127-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	21
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



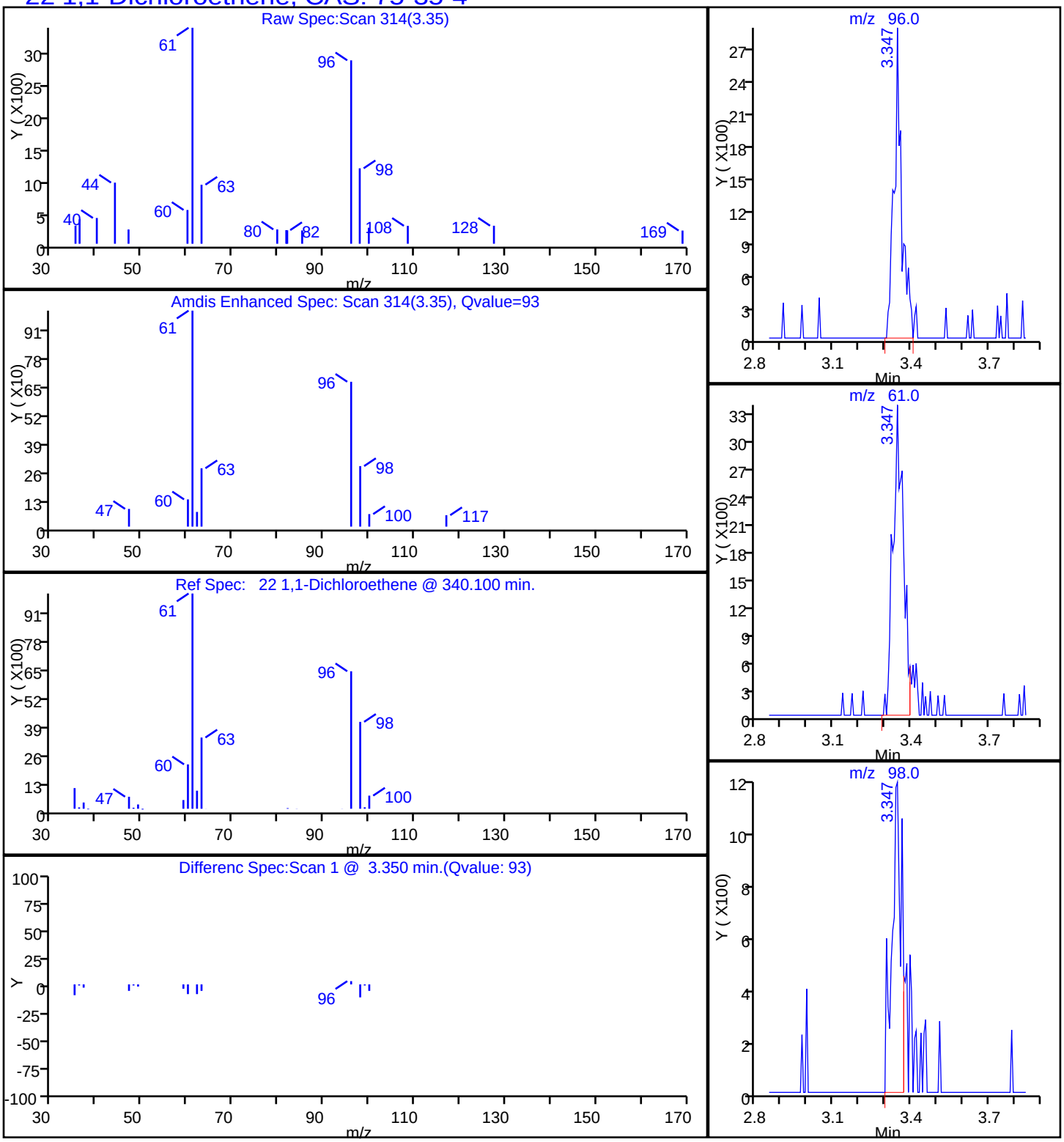
Report Date: 07-Oct-2015 09:07:36 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006021.D

Injection Date:	06-Oct-2015 20:10:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-2	Lab Sample ID:	180-48259-2		
Client ID:	HD-MW-127-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

22 1,1-Dichloroethene, CAS: 75-35-4

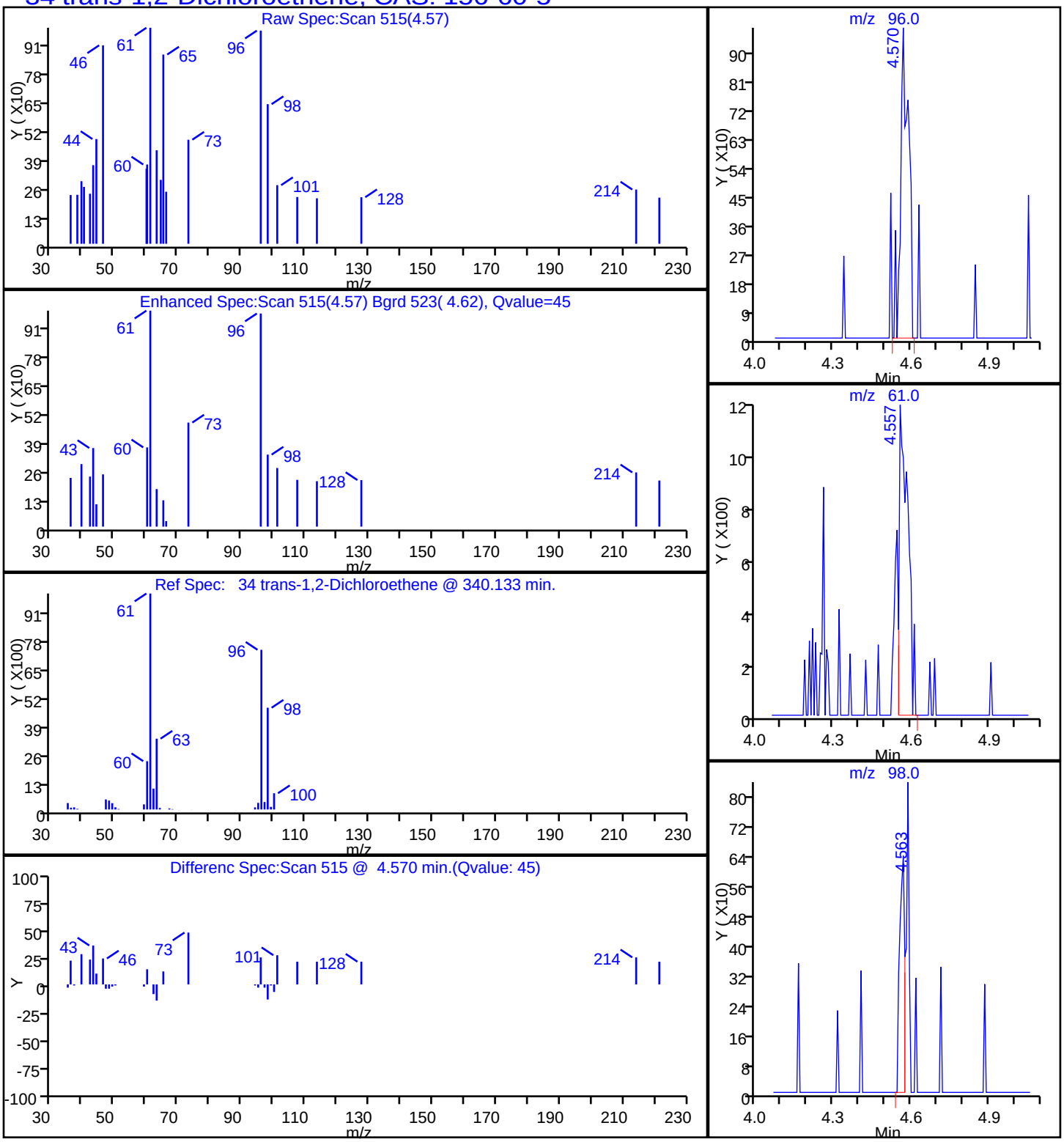


Report Date: 07-Oct-2015 09:07:36 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006021.D				
Injection Date:	06-Oct-2015 20:10:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-2	Lab Sample ID:	180-48259-2		
Client ID:	HD-MW-127-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

34 trans-1,2-Dichloroethene, CAS: 156-60-5



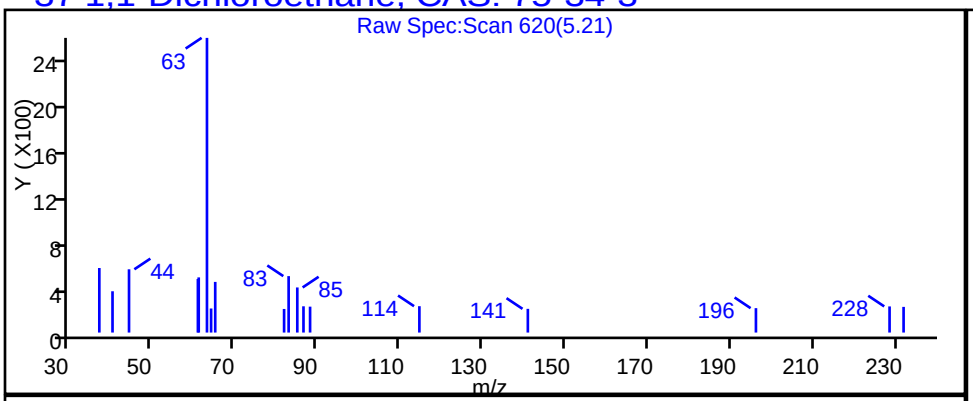
Report Date: 07-Oct-2015 09:07:36 Chrom Revision: 2.2 08-Sep-2015 13:41:46

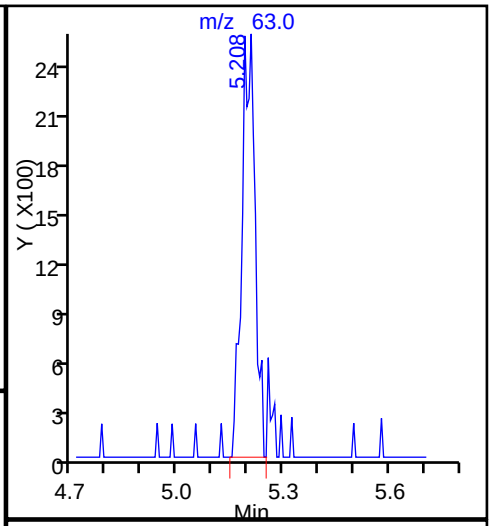
TestAmerica Pittsburgh

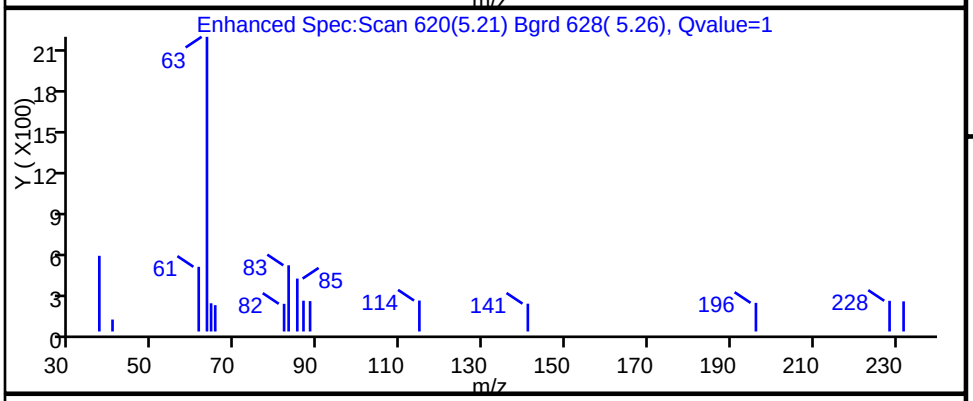
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006021.D

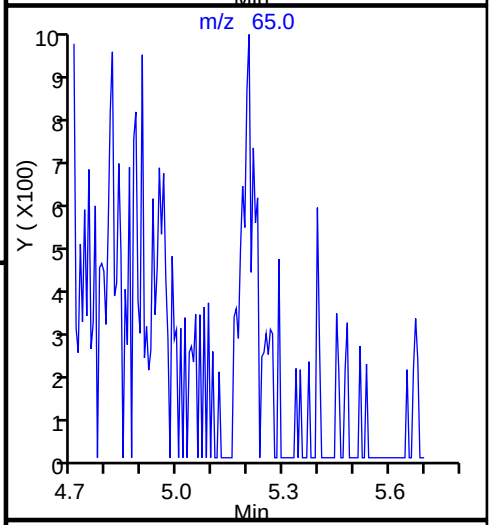
Injection Date:	06-Oct-2015 20:10:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-2	Lab Sample ID:	180-48259-2		
Client ID:	HD-MW-127-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

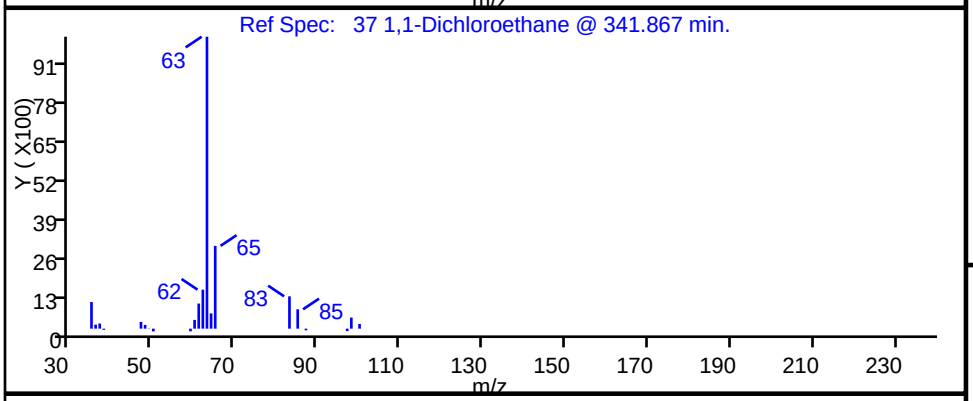
37 1,1-Dichloroethane, CAS: 75-34-3

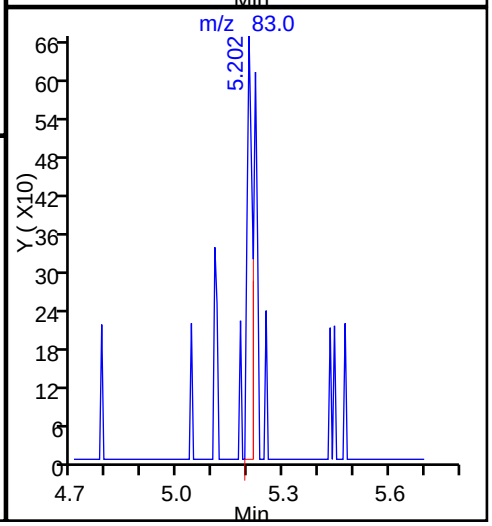


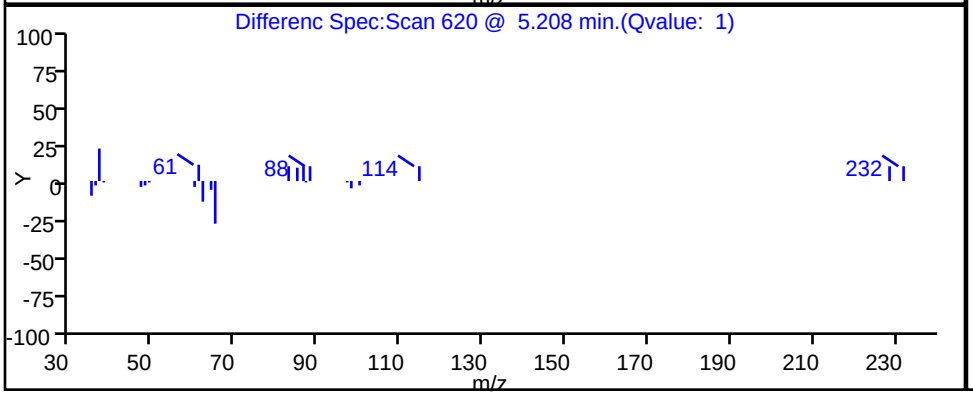










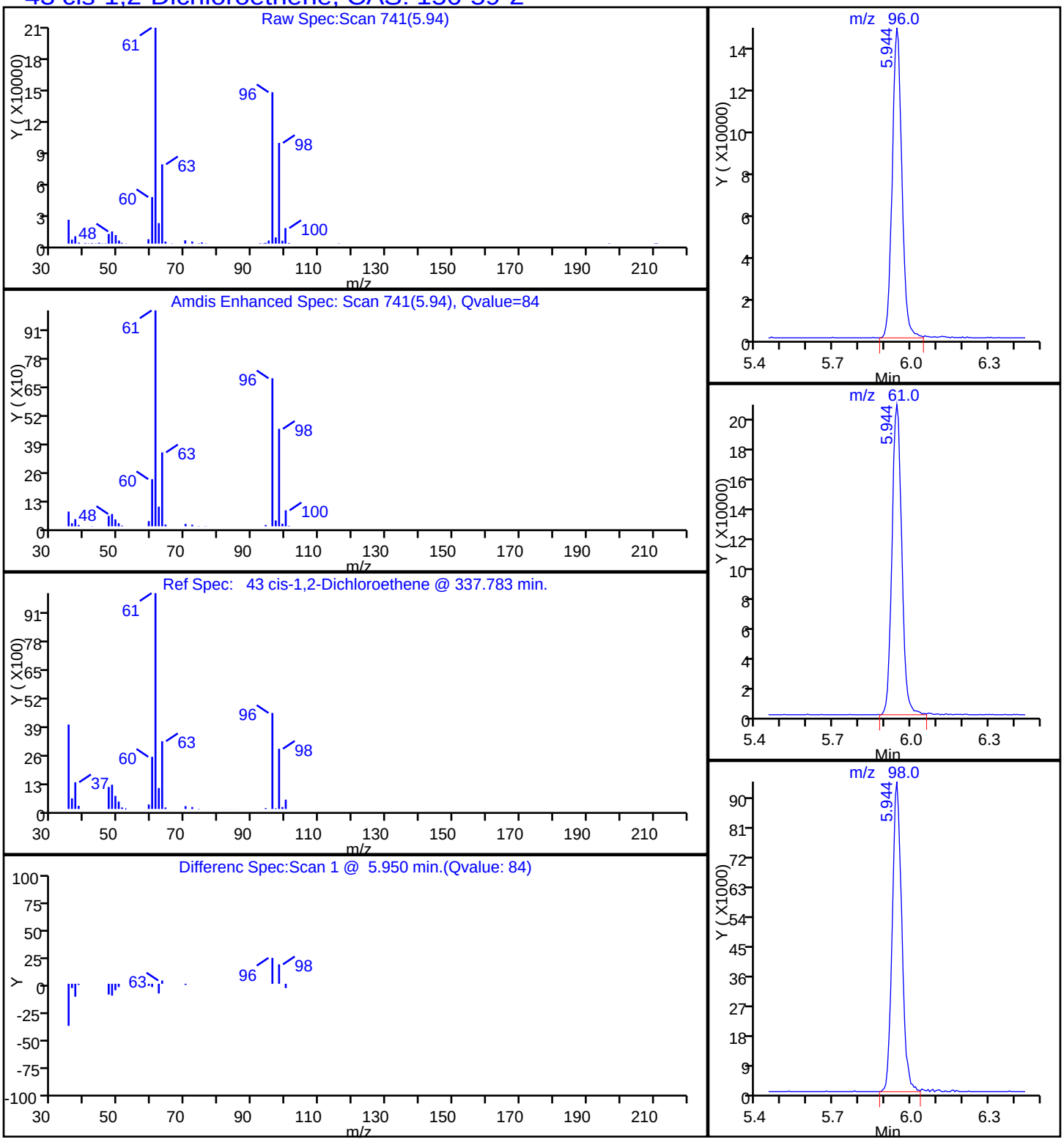


Report Date: 07-Oct-2015 09:07:36 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006021.D				
Injection Date:	06-Oct-2015 20:10:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-2	Lab Sample ID:	180-48259-2		
Client ID:	HD-MW-127-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2

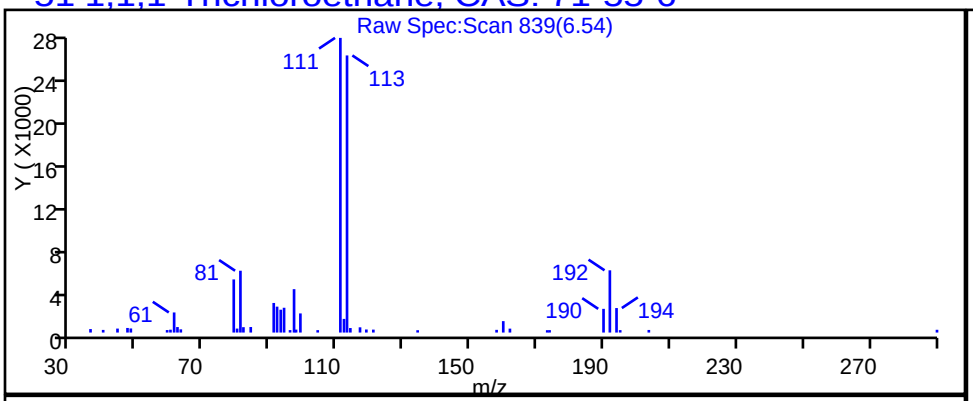


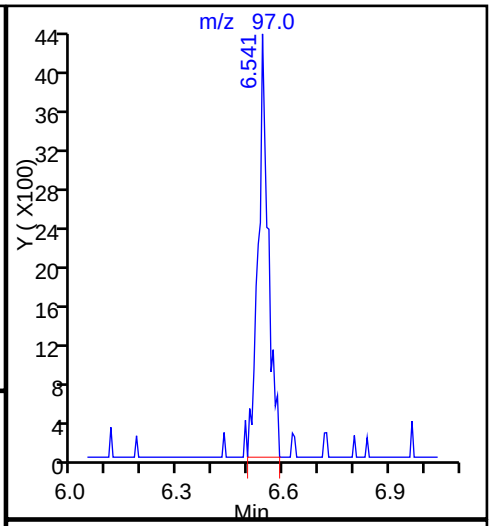
Report Date: 07-Oct-2015 09:07:36 Chrom Revision: 2.2 08-Sep-2015 13:41:46

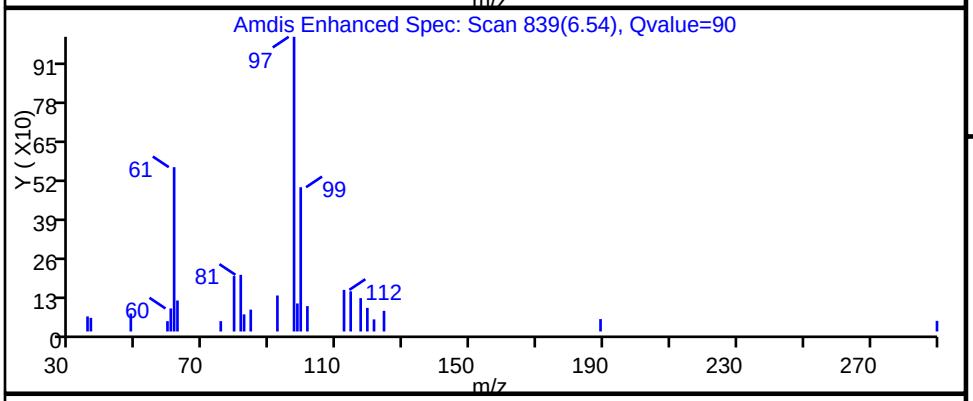
TestAmerica Pittsburgh

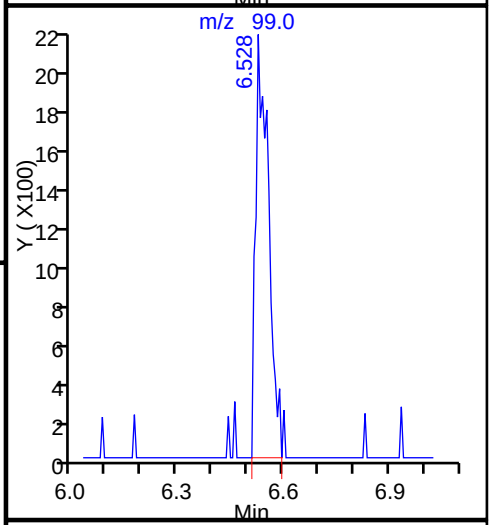
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006021.D				
Injection Date:	06-Oct-2015 20:10:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-2	Lab Sample ID:	180-48259-2		
Client ID:	HD-MW-127-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

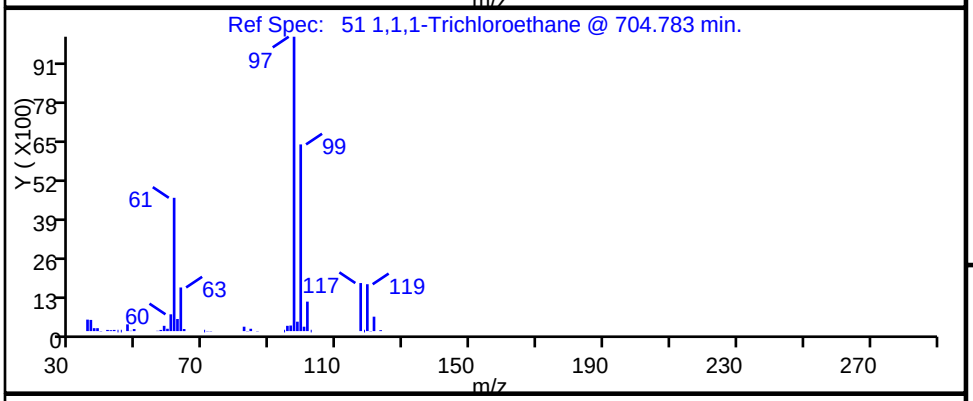
51 1,1,1-Trichloroethane, CAS: 71-55-6

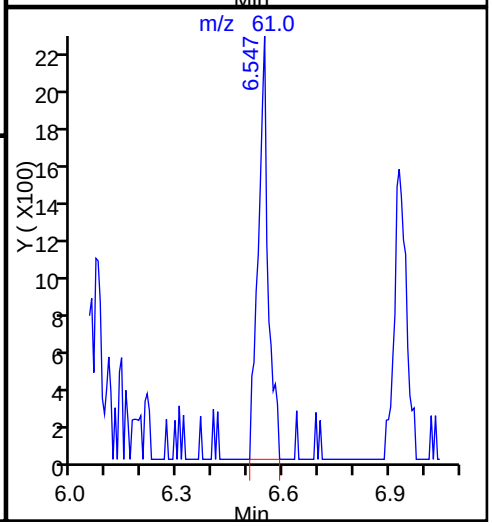


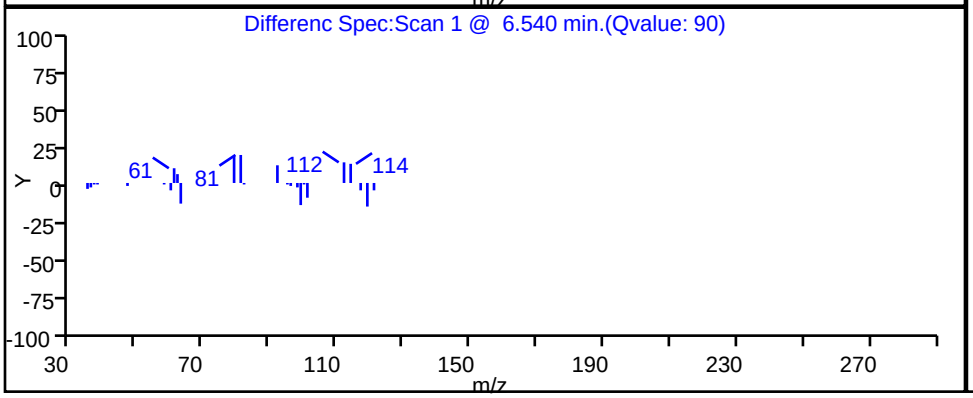










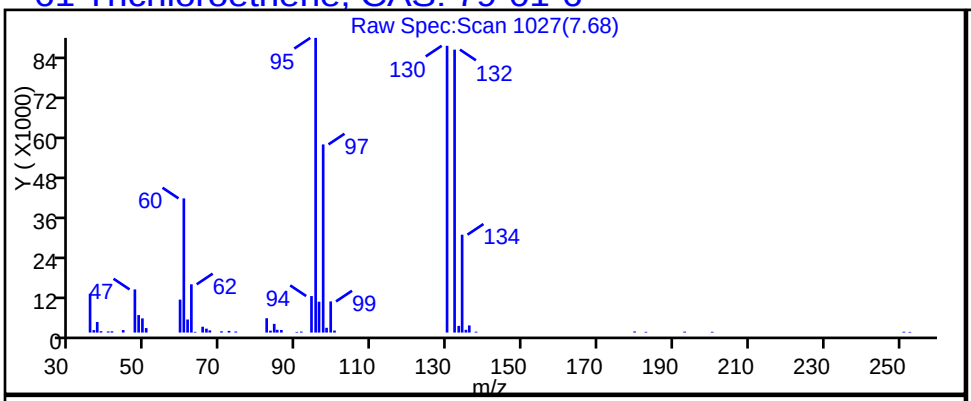


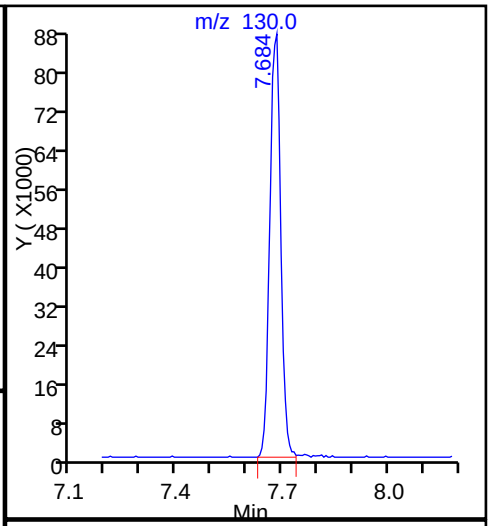
Report Date: 07-Oct-2015 09:07:36 Chrom Revision: 2.2 08-Sep-2015 13:41:46

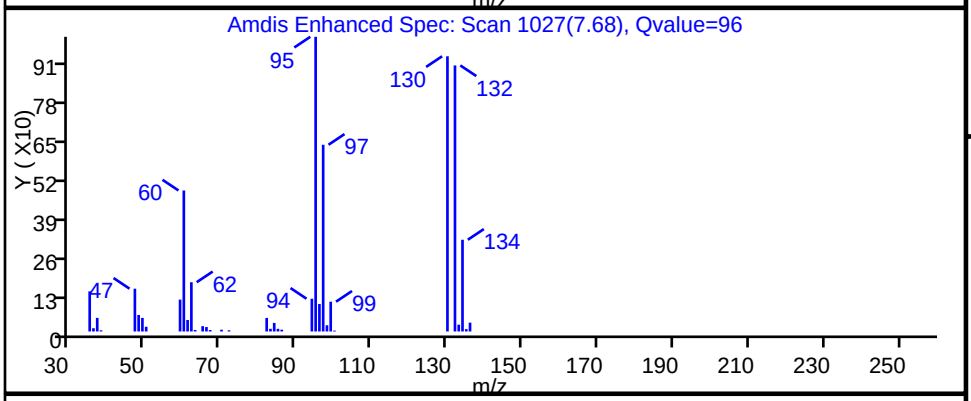
TestAmerica Pittsburgh

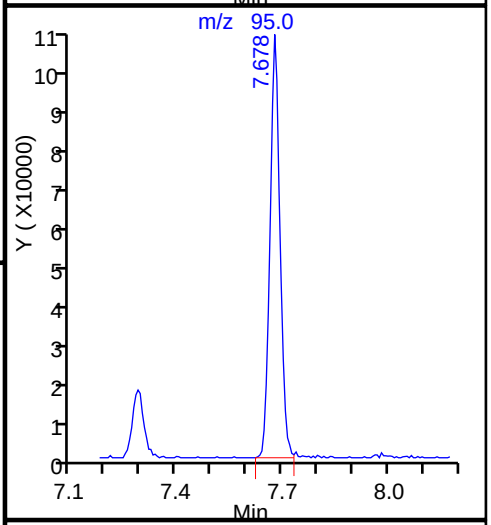
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006021.D		
Injection Date:	06-Oct-2015 20:10:30	Instrument ID:	CHHP6
Lims ID:	180-48259-C-2	Lab Sample ID:	180-48259-2
Client ID:	HD-MW-127-0/1-0		
Operator ID:	001562	ALS Bottle#:	21 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

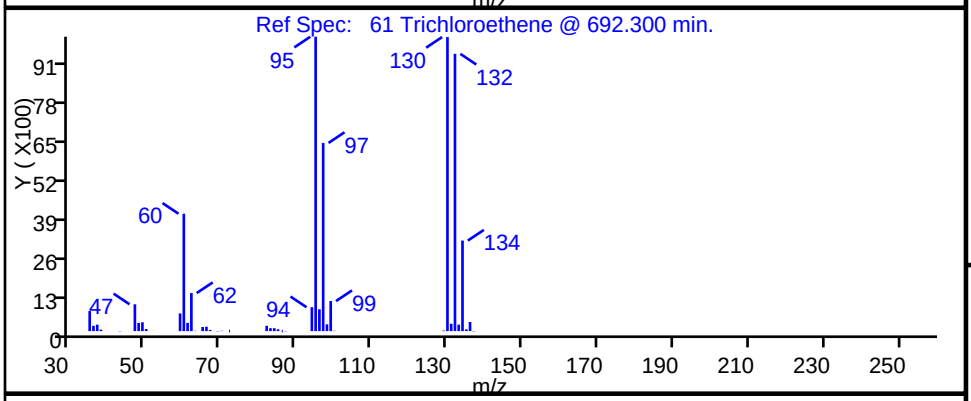
61 Trichloroethene, CAS: 79-01-6

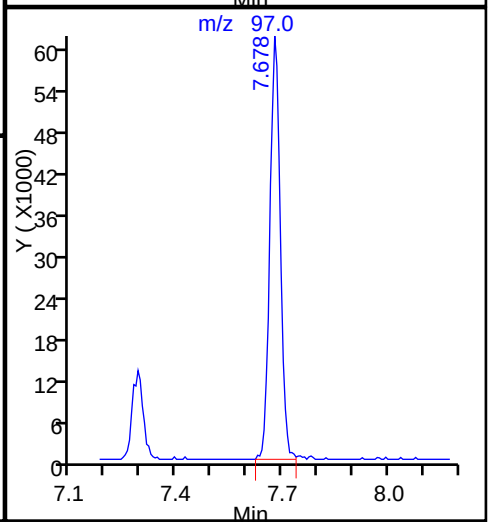


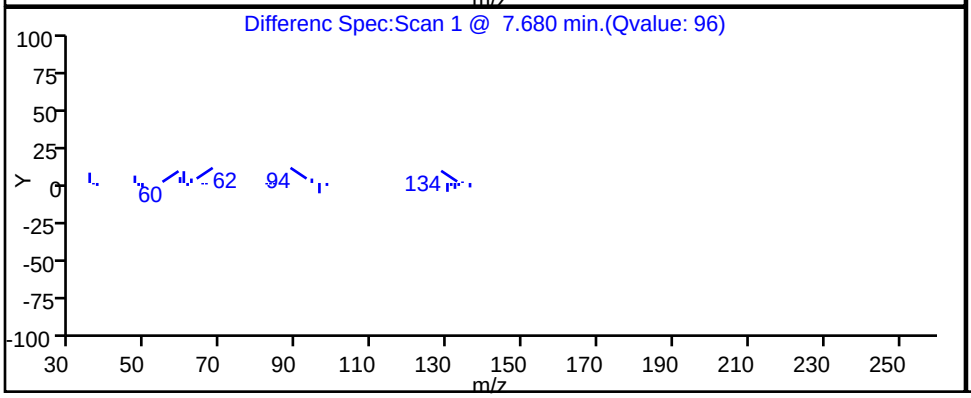












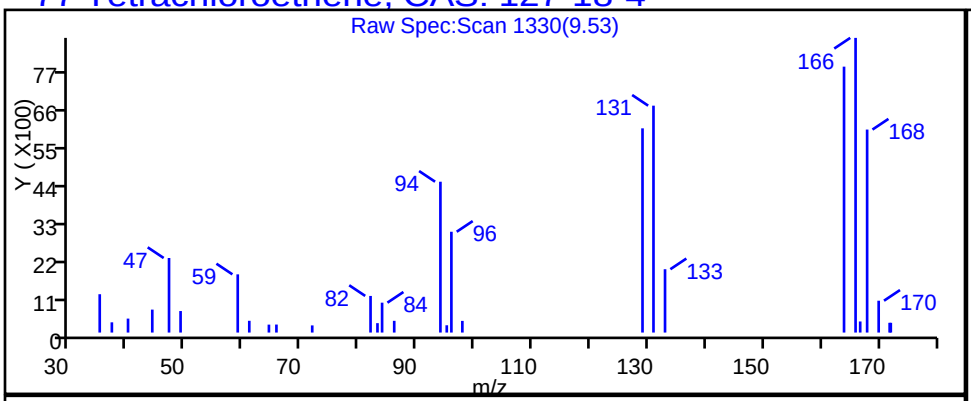
Report Date: 07-Oct-2015 09:07:36 Chrom Revision: 2.2 08-Sep-2015 13:41:46

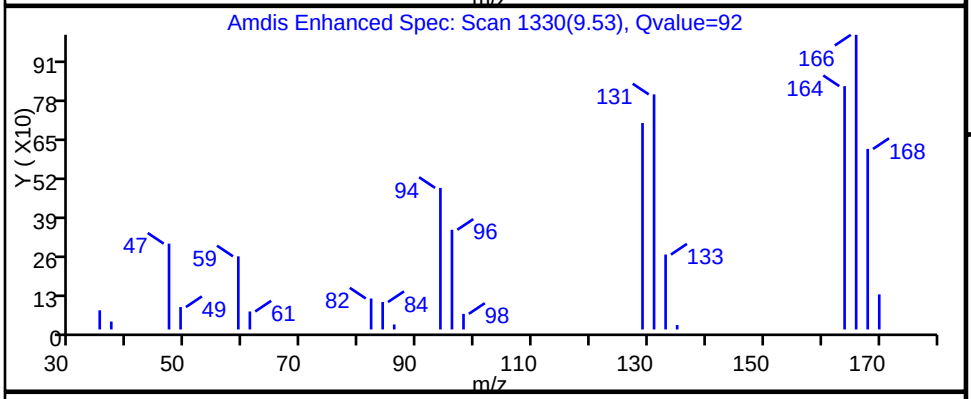
TestAmerica Pittsburgh

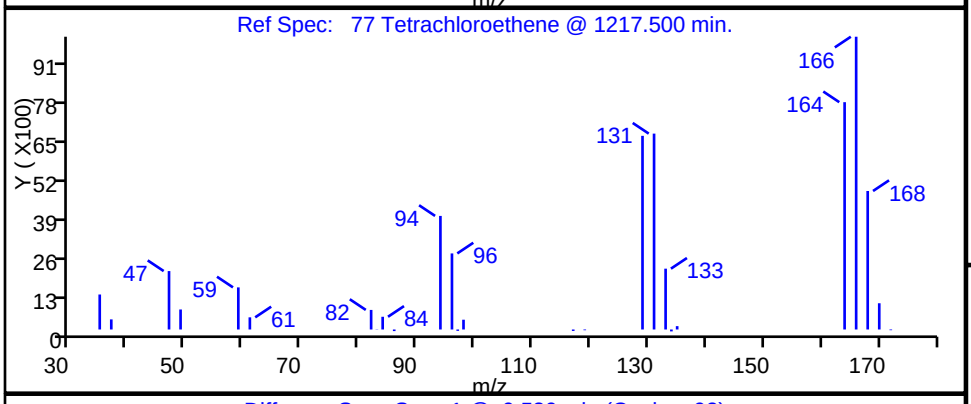
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006021.D

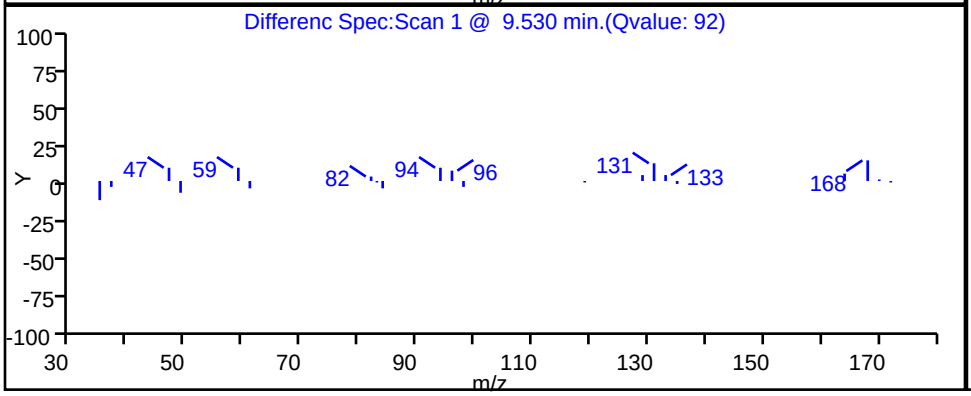
Injection Date:	06-Oct-2015 20:10:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-2	Lab Sample ID:	180-48259-2		
Client ID:	HD-MW-127-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

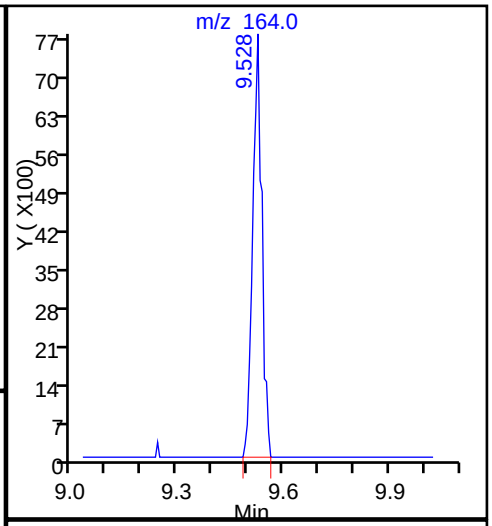
77 Tetrachloroethene, CAS: 127-18-4

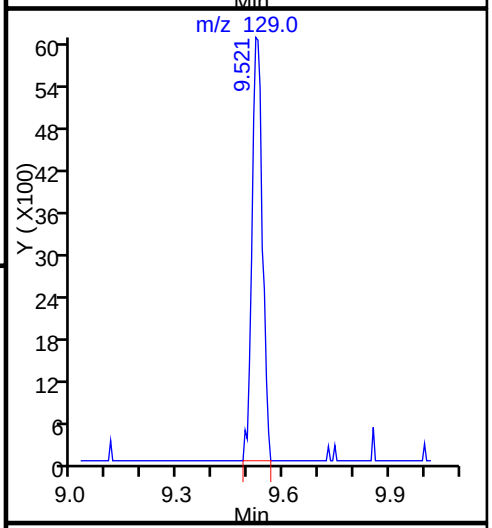


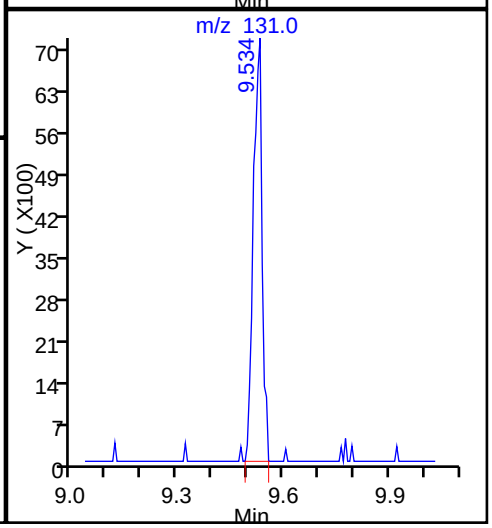












Manual Integration/User Assign Peak Report

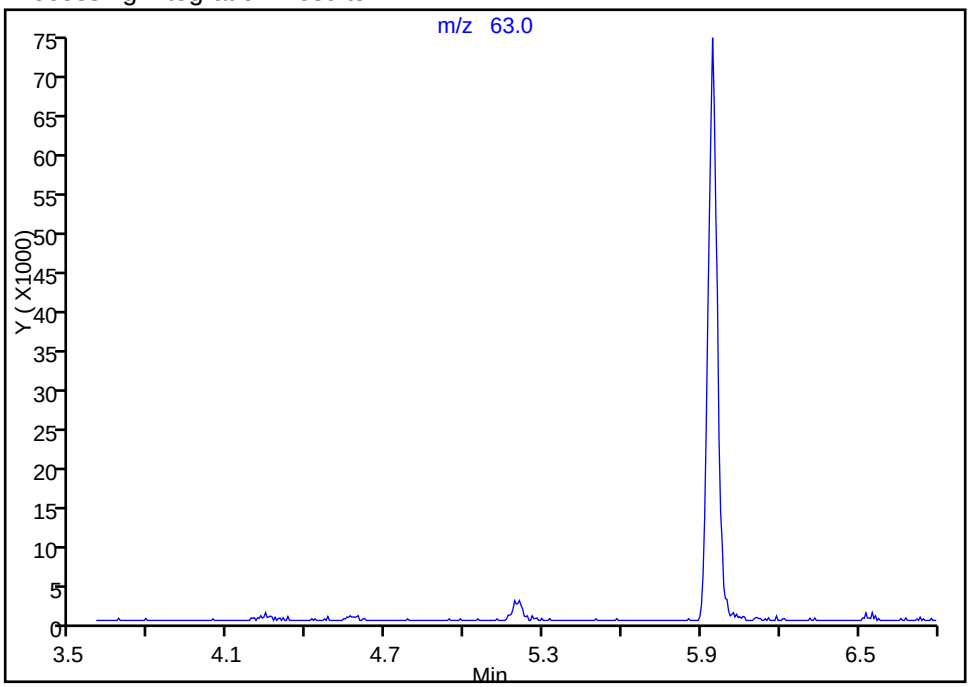
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006021.D				
Injection Date:	06-Oct-2015 20:10:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-2	Lab Sample ID:	180-48259-2		
Client ID:	HD-MW-127-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

37 1,1-Dichloroethane, CAS: 75-34-3

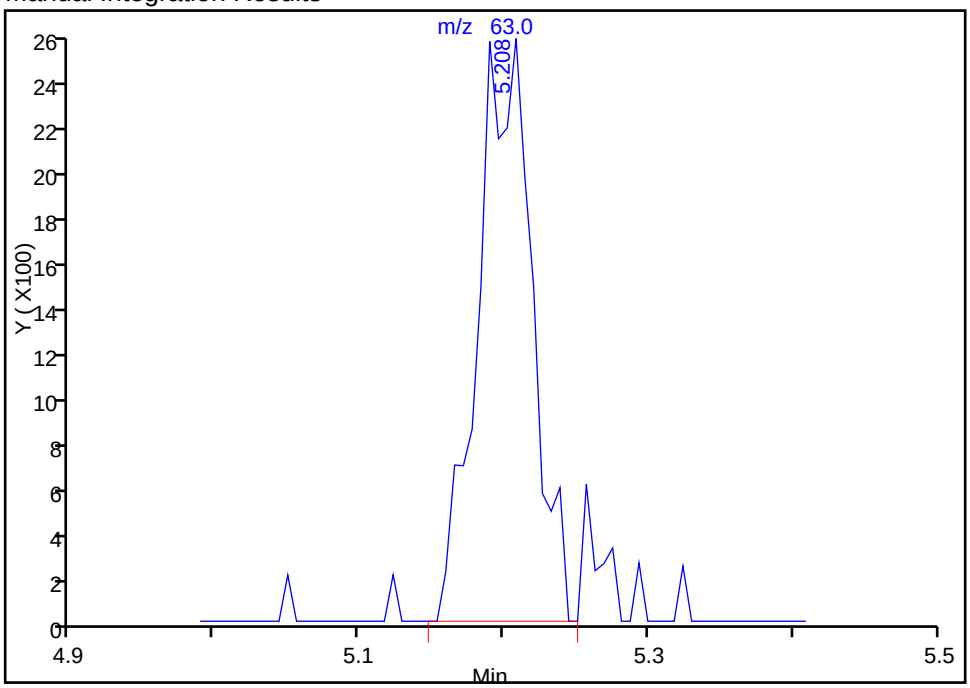
Not Detected
Expected RT: 5.19

Processing Integration Results



RT: 5.21
Area: 6669
Amount: 1.582898
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 07-Oct-2015 09:07:35
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-22-0/1-0 | Lab Sample ID: 180-48259-3

Matrix: Water | Lab File ID: 61006028.D

Analysis Method: 8260C | Date Collected: 09/29/2015 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 23:00

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.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U ^c	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	0.39	J	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U ^c	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	0.38	J	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	13		1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	13		1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-22-0/1-0 | Lab Sample ID: 180-48259-3

Matrix: Water | Lab File ID: 61006028.D

Analysis Method: 8260C | Date Collected: 09/29/2015 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 23:00

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.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		64-135
2037-26-5	Toluene-d8 (Surr)	97		71-118
460-00-4	4-Bromofluorobenzene (Surr)	90		70-118
1868-53-7	Dibromofluoromethane (Surr)	118		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006028.D
Lims ID: 180-48259-C-3 Lab Sample ID: 180-48259-3
Client ID: HD-MW-22-0/1-0
Sample Type: Client
Inject. Date: 06-Oct-2015 23:00:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48259-C-3
Misc. Info.: 180-0008851-028
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 07-Oct-2015 09:12:43 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: fergusond Date: 07-Oct-2015 09:12:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.230	4.230	0.000	88	189655	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	97	390543	50.0	
* 3 Chlorobenzene-d5	119	10.399	10.399	0.000	90	109194	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.747	0.000	97	185285	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.560	6.556	0.004	92	106293	59.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.933	-0.002	70	159661	55.0	
$ 7 Toluene-d8 (Surr)	98	8.945	8.941	0.004	94	418077	48.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.581	0.004	85	172514	45.1	
12 Chloromethane	50		1.774				ND	
13 Vinyl chloride	62		1.902				ND	
15 Bromomethane	94		2.249				ND	
16 Chloroethane	64		2.389				ND	
22 1,1-Dichloroethene	96	3.348	3.338	0.010	35	2128	1.08	M
24 Acetone	43		3.423				ND	
26 Carbon disulfide	76		3.630				ND	
31 Methylene Chloride	84		4.129				ND	
33 Acrylonitrile	53		4.500				ND	
35 Methyl tert-butyl ether	73		4.567				ND	
34 trans-1,2-Dichloroethene	96		4.567				ND	
37 1,1-Dichloroethane	63		5.193				ND	
43 cis-1,2-Dichloroethene	96	5.952	5.942	0.010	41	4852	1.97	
44 2-Butanone (MEK)	43		5.942				ND	
48 Chlorobromomethane	128		6.228				ND	
50 Chloroform	83	6.378	6.374	0.004	1	1164	0.2887	
51 1,1,1-Trichloroethane	97	6.542	6.538	0.004	35	5720	1.92	
53 Carbon tetrachloride	117		6.714				ND	
56 Benzene	78		6.939				ND	
57 1,2-Dichloroethane	62		7.018				ND	
61 Trichloroethene	130	7.679	7.675	0.004	96	127599	67.2	
64 1,2-Dichloropropane	63		7.949				ND	
65 1,4-Dioxane	88		8.034				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.229				ND	
71 cis-1,3-Dichloropropene	75		8.673				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.825				ND	
73 Toluene	91		9.008				ND	
74 trans-1,3-Dichloropropene	75		9.251				ND	
76 1,1,2-Trichloroethane	97		9.452				ND	
77 Tetrachloroethene	164	9.529	9.525	0.004	96	125171	65.1	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.823				ND	
82 Ethylene Dibromide	107		9.938				ND	
84 Chlorobenzene	112		10.425				ND	
86 1,1,1,2-Tetrachloroethane	131		10.522				ND	
87 Ethylbenzene	106		10.529				ND	
88 m-Xylene & p-Xylene	106		10.662				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.058				ND	
91 Bromoform	173		11.246				ND	
96 1,1,2,2-Tetrachloroethane	83		11.715				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

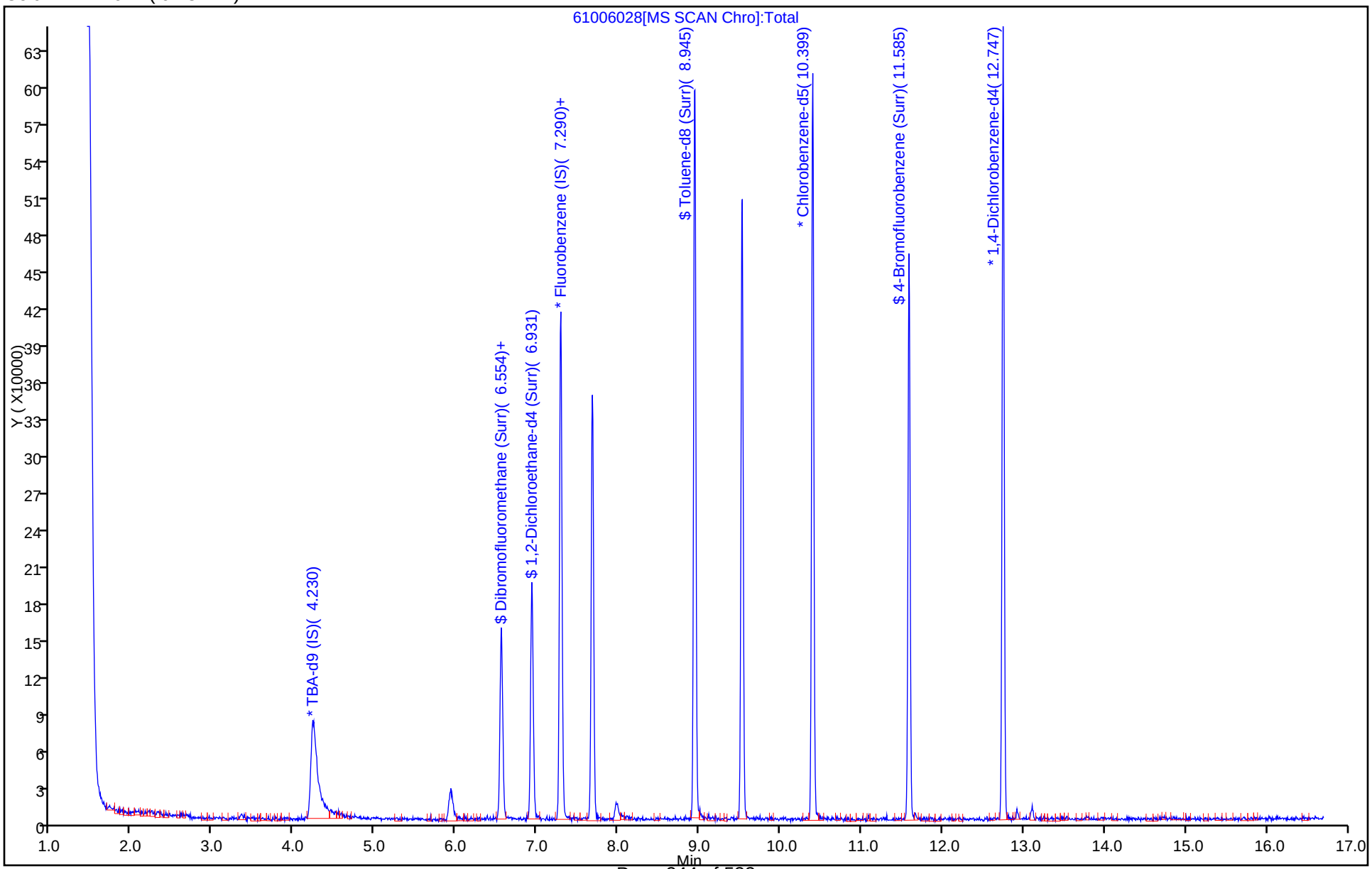
Report Date: 07-Oct-2015 09:12:43 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006028.D

Injection Date:	06-Oct-2015 23:00:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48259-C-3	Lab Sample ID:	180-48259-3	Worklist Smp#:	28
Client ID:	HD-MW-22-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)

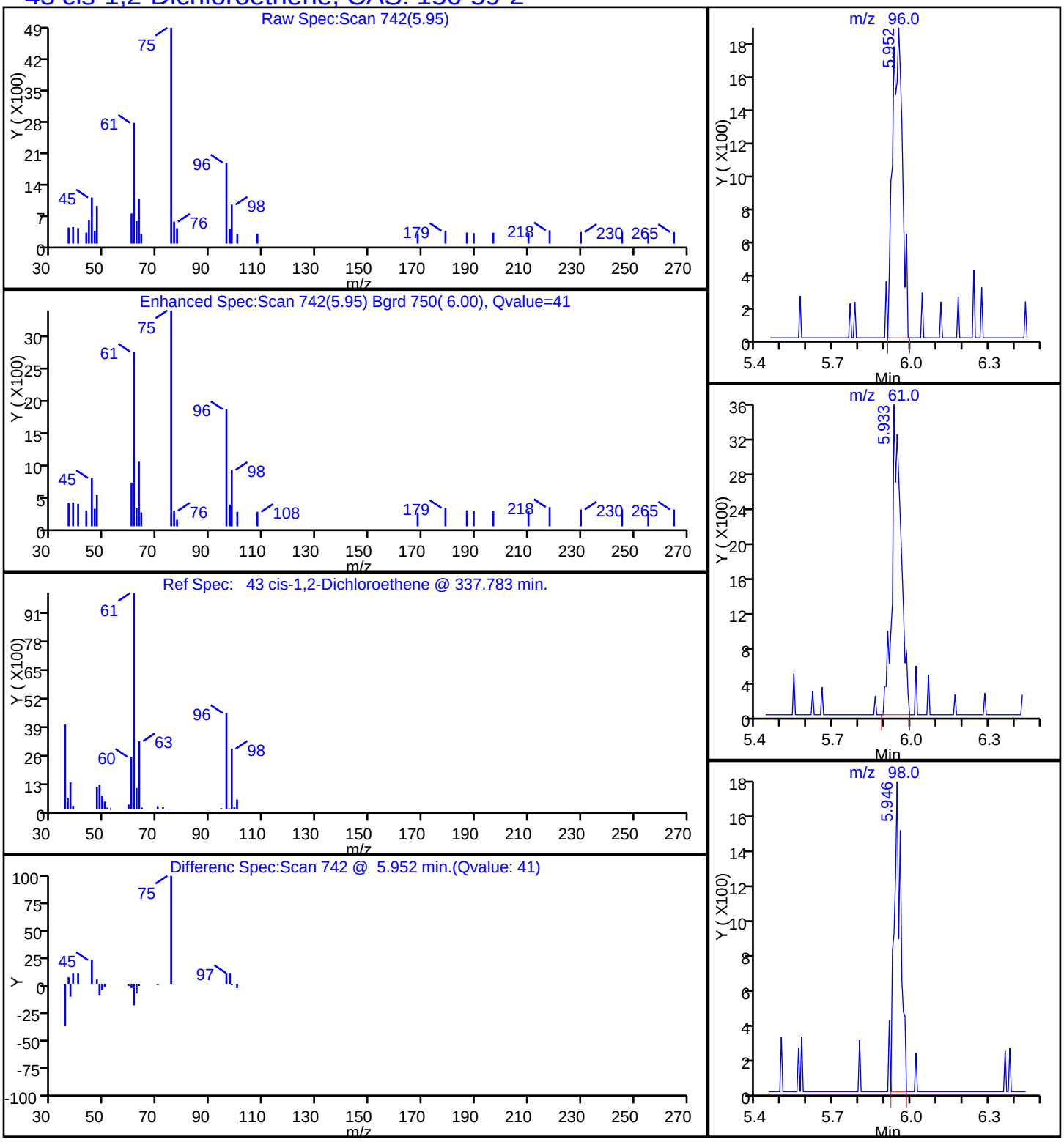


Report Date: 07-Oct-2015 09:12:43 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006028.D				
Injection Date:	06-Oct-2015 23:00:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-3	Lab Sample ID:	180-48259-3		
Client ID:	HD-MW-22-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2



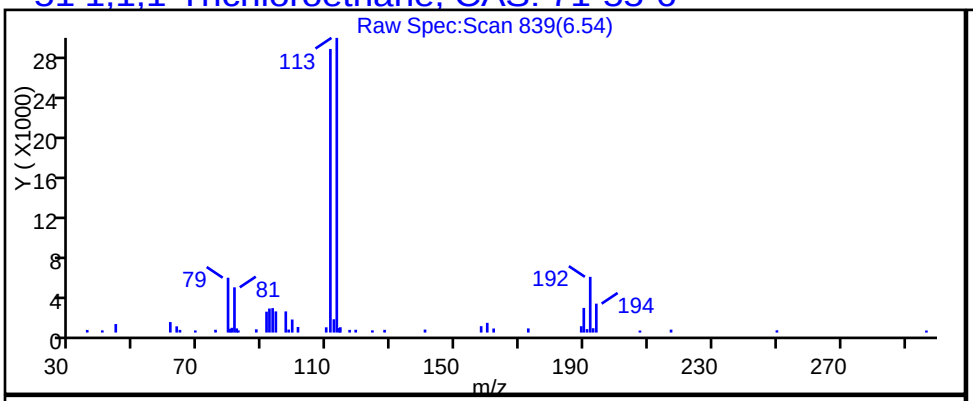
Report Date: 07-Oct-2015 09:12:43 Chrom Revision: 2.2 08-Sep-2015 13:41:46

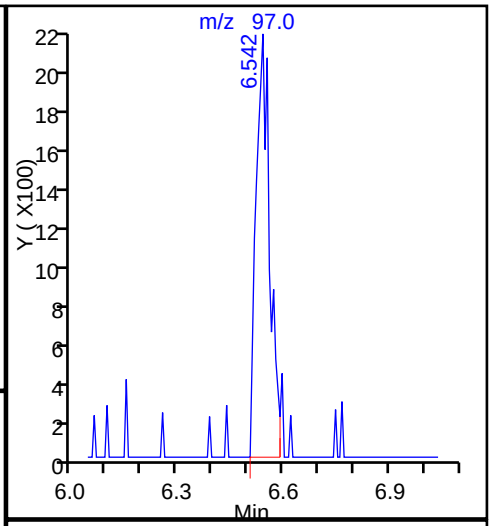
TestAmerica Pittsburgh

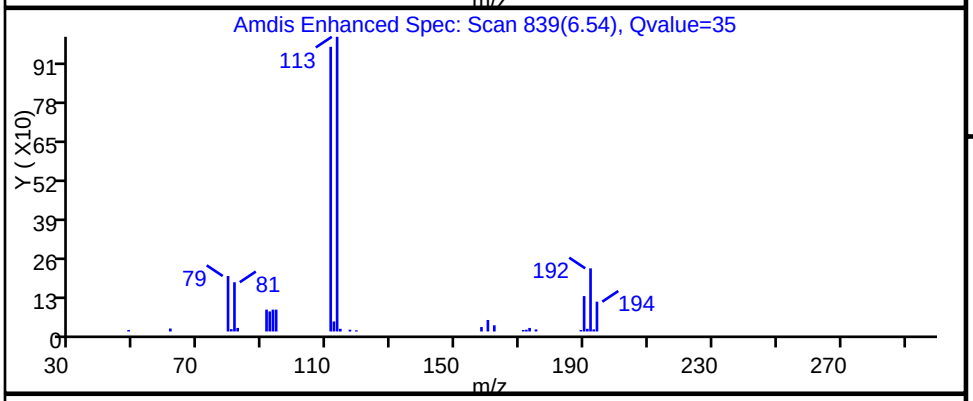
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006028.D

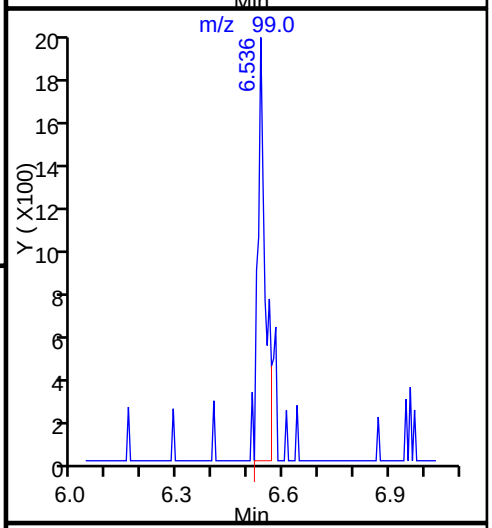
Injection Date:	06-Oct-2015 23:00:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-3	Lab Sample ID:	180-48259-3		
Client ID:	HD-MW-22-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

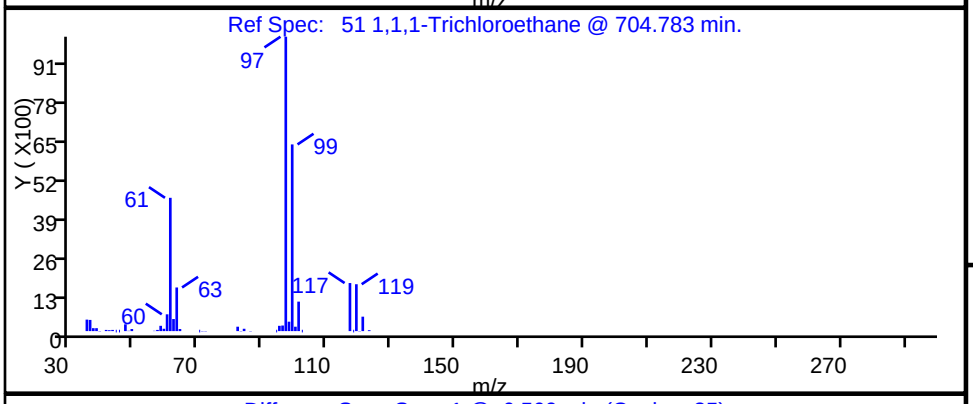
51 1,1,1-Trichloroethane, CAS: 71-55-6

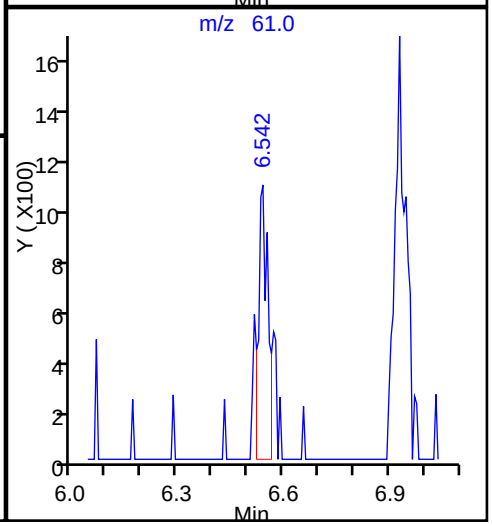


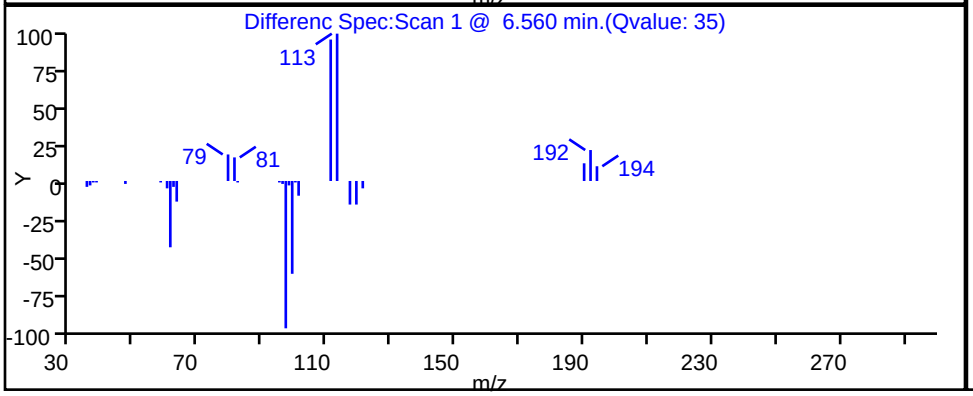












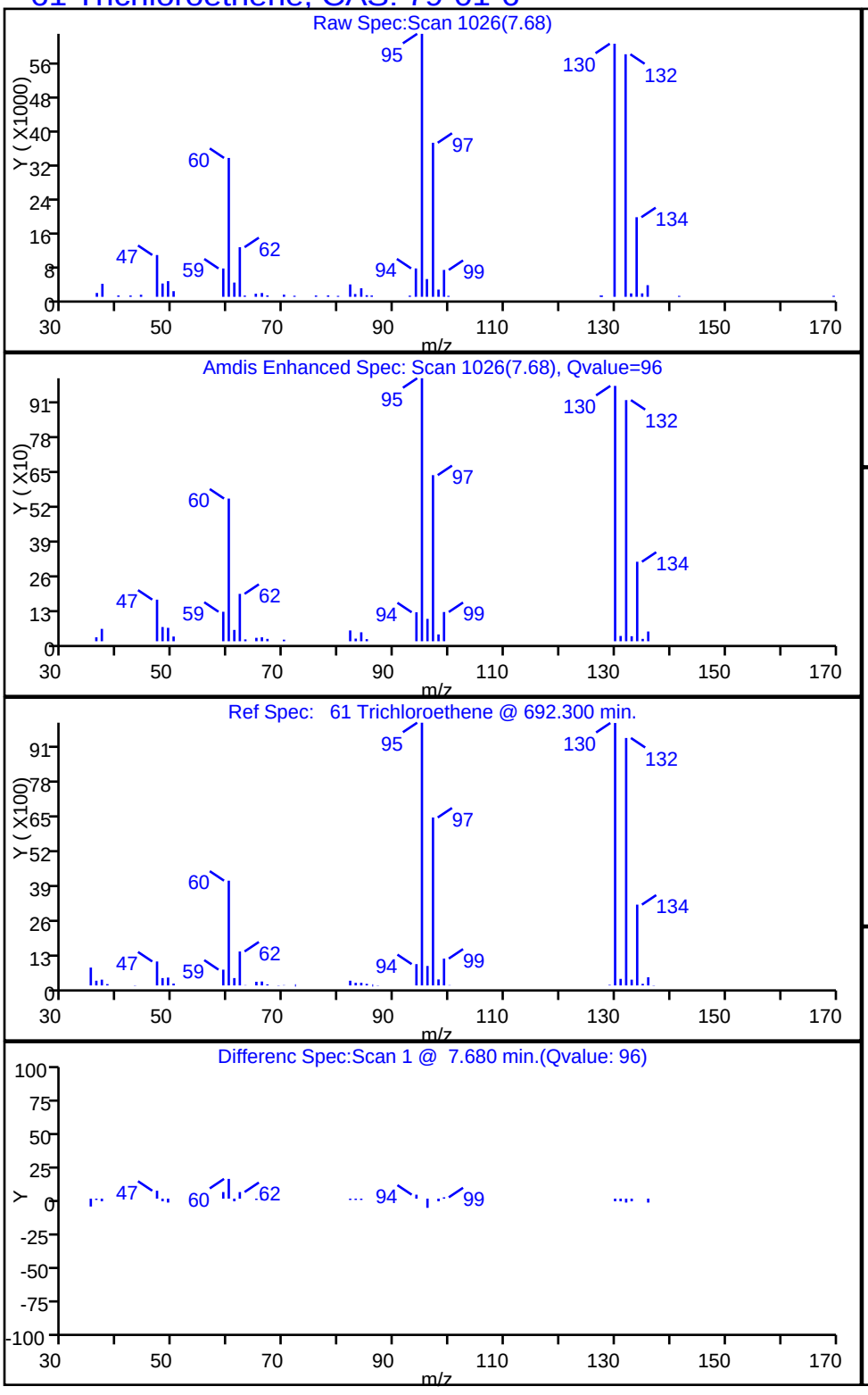
Report Date: 07-Oct-2015 09:12:43 Chrom Revision: 2.2 08-Sep-2015 13:41:46

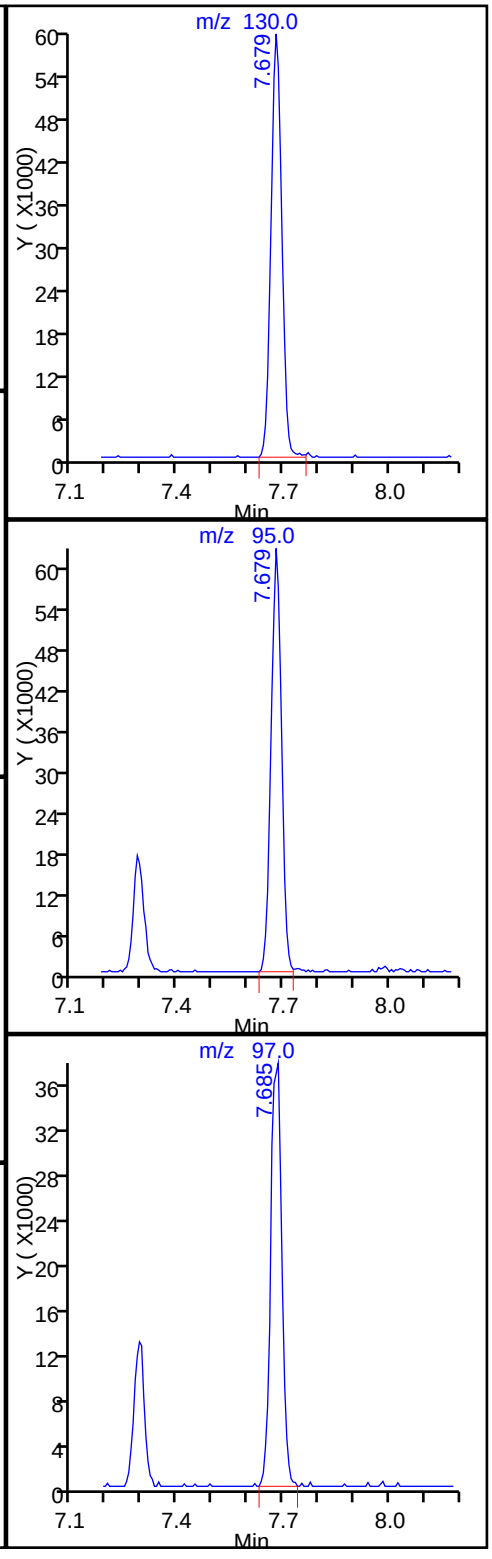
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006028.D

Injection Date:	06-Oct-2015 23:00:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-3	Lab Sample ID:	180-48259-3		
Client ID:	HD-MW-22-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

61 Trichloroethene, CAS: 79-01-6



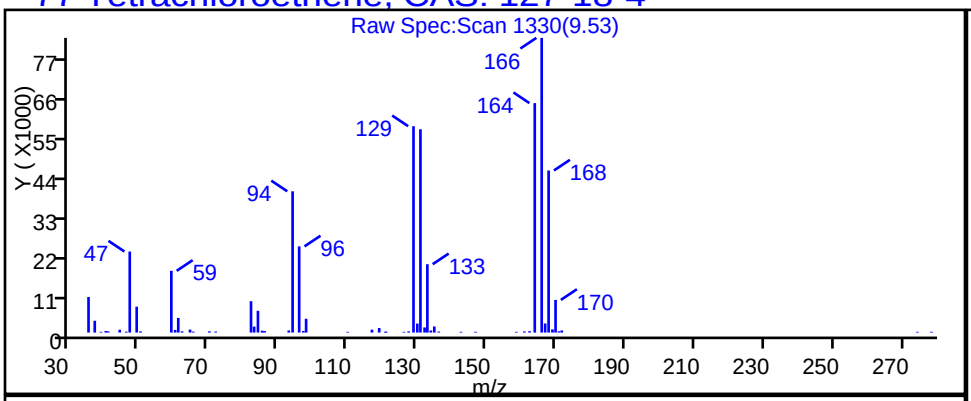


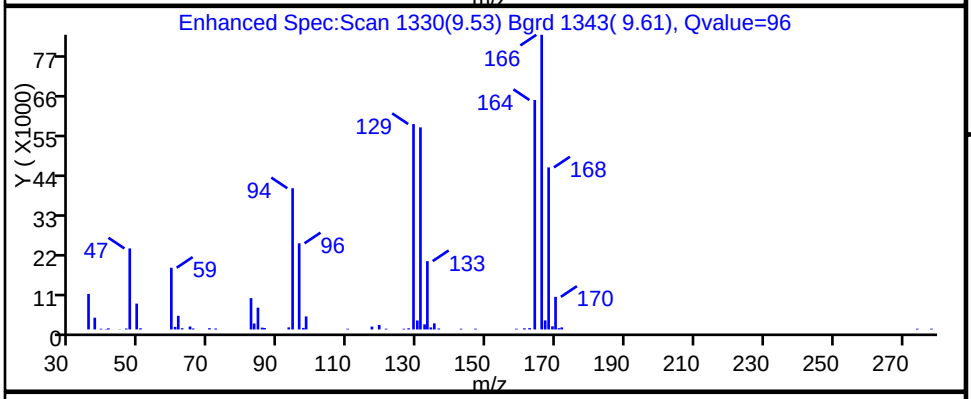
Report Date: 07-Oct-2015 09:12:43 Chrom Revision: 2.2 08-Sep-2015 13:41:46

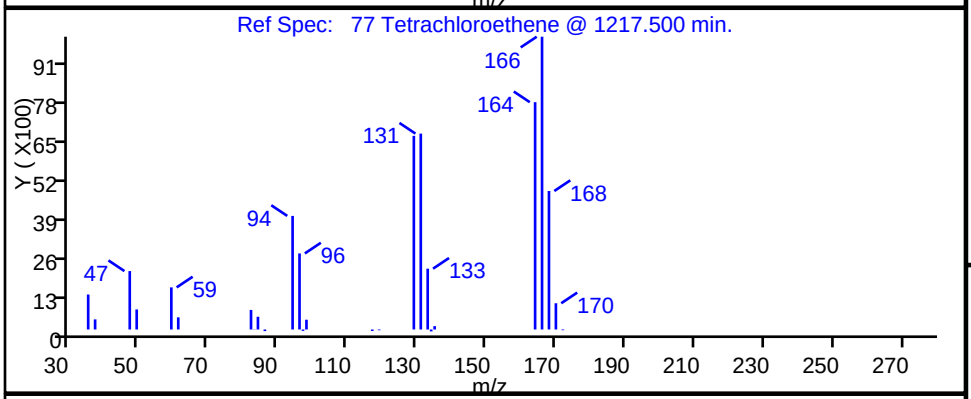
TestAmerica Pittsburgh

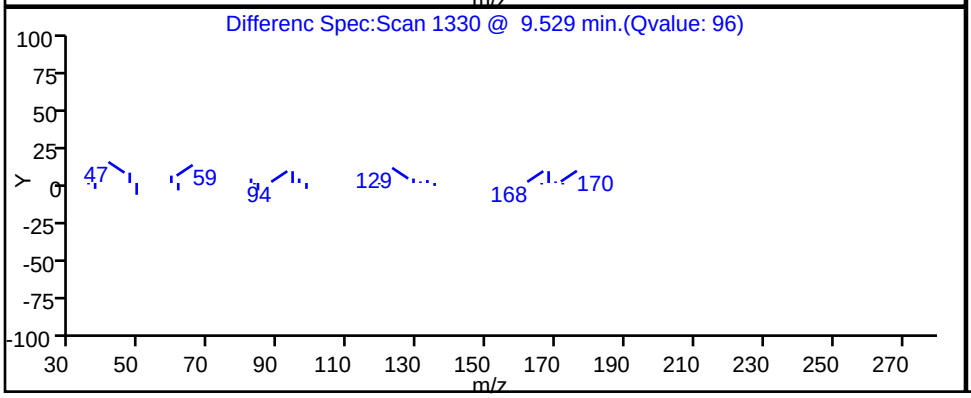
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006028.D				
Injection Date:	06-Oct-2015 23:00:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-3	Lab Sample ID:	180-48259-3		
Client ID:	HD-MW-22-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

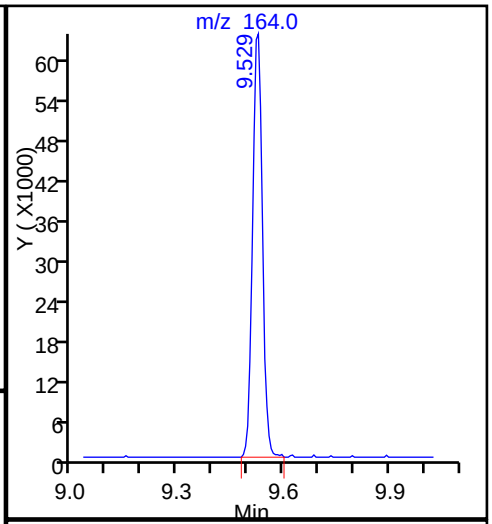
77 Tetrachloroethene, CAS: 127-18-4

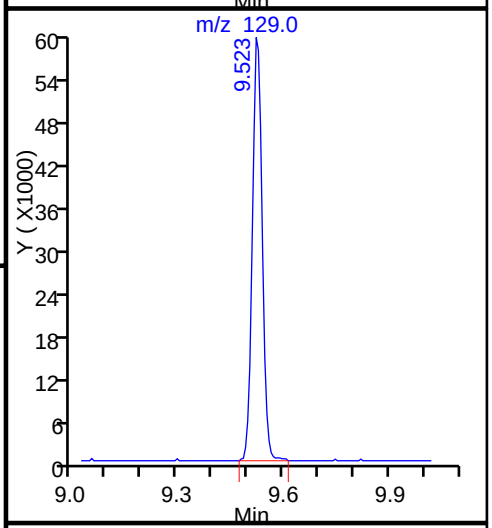


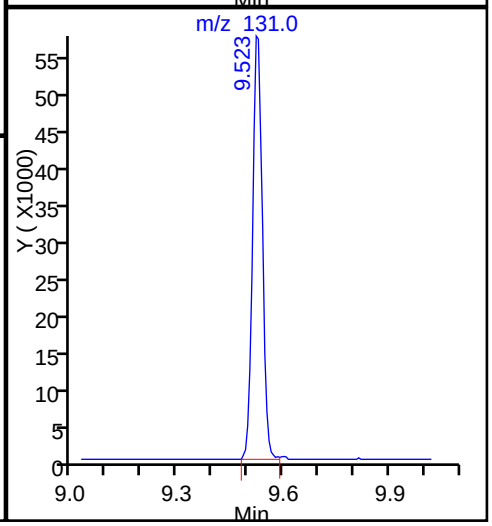












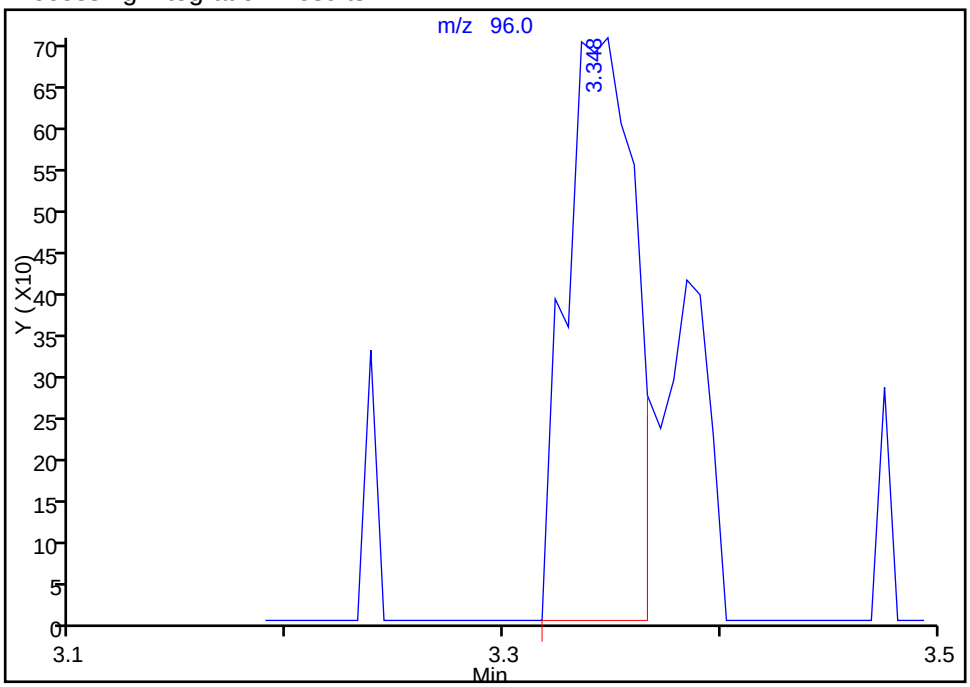
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006028.D				
Injection Date:	06-Oct-2015 23:00:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-3	Lab Sample ID:	180-48259-3		
Client ID:	HD-MW-22-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

22 1,1-Dichloroethene, CAS: 75-35-4

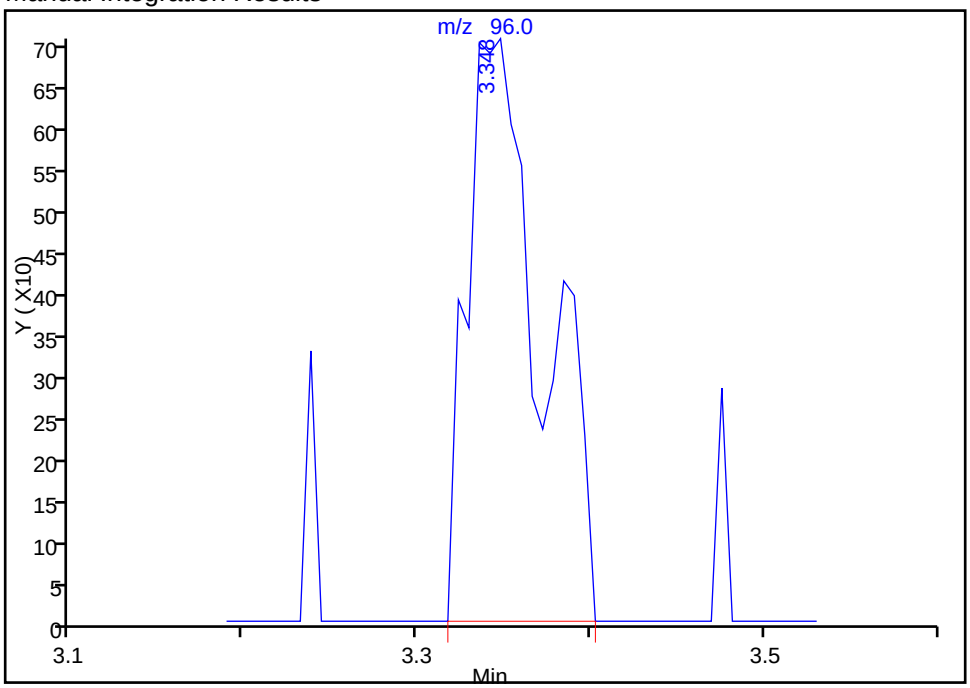
Processing Integration Results

RT: 3.35
Area: 1560
Amount: 0.793543
Amount Units: ng



Manual Integration Results

RT: 3.35
Area: 2128
Amount: 1.082474
Amount Units: ng



Reviewer: fergusond, 07-Oct-2015 09:12:43
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-15-0/1-0 | Lab Sample ID: 180-48259-4

Matrix: Water | Lab File ID: 61006029.D

Analysis Method: 8260C | Date Collected: 09/29/2015 08:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 23:25

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.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U ^c	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U ^c	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	5.7		1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	*Tetrachloroethene*	*210*	*E*	*1.0*	*0.15*
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-15-0/1-0 | Lab Sample ID: 180-48259-4

Matrix: Water | Lab File ID: 61006029.D

Analysis Method: 8260C | Date Collected: 09/29/2015 08:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 23:25

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.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		64-135
2037-26-5	Toluene-d8 (Surr)	89		71-118
460-00-4	4-Bromofluorobenzene (Surr)	87		70-118
1868-53-7	Dibromofluoromethane (Surr)	111		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006029.D
Lims ID: 180-48259-A-4 Lab Sample ID: 180-48259-4
Client ID: HD-MW-15-0/1-0
Sample Type: Client
Inject. Date: 06-Oct-2015 23:25:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48259-A-4
Misc. Info.: 180-0008851-029
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 07-Oct-2015 09:16:33 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: fergusond Date: 07-Oct-2015 09:16:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.247	4.230	0.017	87	188439	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	400775	50.0	
* 3 Chlorobenzene-d5	119	10.397	10.399	-0.002	91	115846	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.745	12.747	-0.002	98	188945	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.556	-0.003	92	102186	55.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.933	-0.003	70	159303	53.5	
$ 7 Toluene-d8 (Surr)	98	8.943	8.941	0.002	94	405306	44.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.590	11.581	0.009	86	176536	43.5	
12 Chloromethane	50	1.771	1.774	-0.003	1	2965	1.24	
13 Vinyl chloride	62		1.902				ND	
15 Bromomethane	94		2.249				ND	
16 Chloroethane	64		2.389				ND	
22 1,1-Dichloroethene	96		3.338				ND	
24 Acetone	43		3.423				ND	
26 Carbon disulfide	76		3.630				ND	
31 Methylene Chloride	84		4.129				ND	
33 Acrylonitrile	53		4.500				ND	
35 Methyl tert-butyl ether	73		4.567				ND	
34 trans-1,2-Dichloroethene	96		4.567				ND	
37 1,1-Dichloroethane	63		5.193				ND	
43 cis-1,2-Dichloroethene	96	5.944	5.942	0.002	46	2458	0.9709	
44 2-Butanone (MEK)	43		5.942				ND	
48 Chlorobromomethane	128		6.228				ND	
50 Chloroform	83	6.358	6.374	-0.016	20	1964	0.4747	
51 1,1,1-Trichloroethane	97		6.538				ND	
53 Carbon tetrachloride	117		6.714				ND	
56 Benzene	78		6.939				ND	
57 1,2-Dichloroethane	62		7.018				ND	
61 Trichloroethene	130	7.678	7.675	0.003	96	55652	28.6	
64 1,2-Dichloropropane	63		7.949				ND	
65 1,4-Dioxane	88		8.034				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.229				ND	
71 cis-1,3-Dichloropropene	75		8.673				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.825				ND	
73 Toluene	91		9.008				ND	
74 trans-1,3-Dichloropropene	75		9.251				ND	
76 1,1,2-Trichloroethane	97		9.452				ND	
77 Tetrachloroethene	164	9.527	9.525	0.002	88	2183298	1070.8	E
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.823				ND	
82 Ethylene Dibromide	107		9.938				ND	
84 Chlorobenzene	112		10.425				ND	
86 1,1,1,2-Tetrachloroethane	131	10.519	10.522	-0.003	15	693	0.3442	
87 Ethylbenzene	106		10.529				ND	
88 m-Xylene & p-Xylene	106		10.662				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.058				ND	
91 Bromoform	173		11.246				ND	
96 1,1,2,2-Tetrachloroethane	83		11.715				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

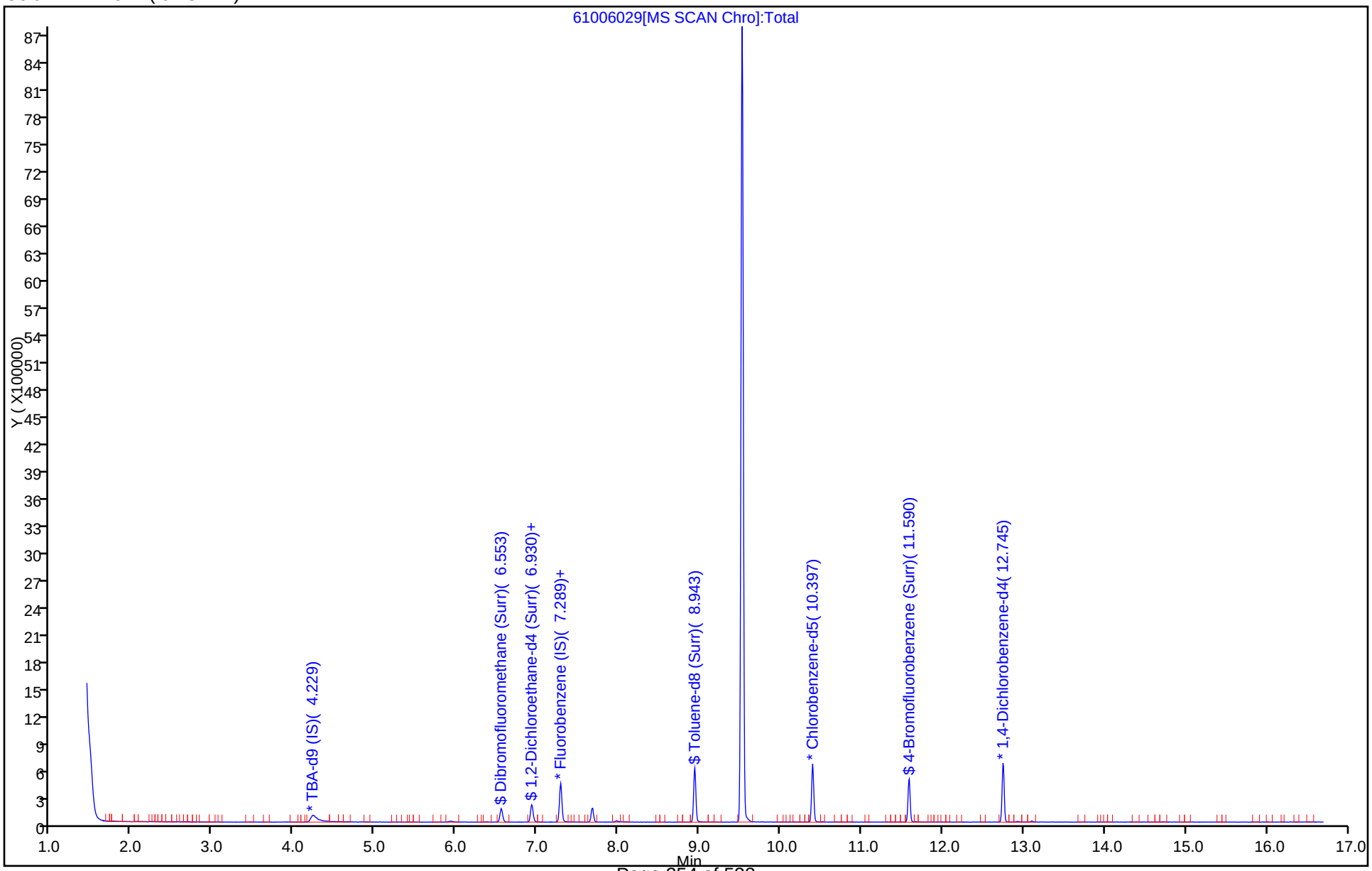
Report Date: 07-Oct-2015 09:16:35 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006029.D

Injection Date:	06-Oct-2015 23:25:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48259-A-4	Lab Sample ID:	180-48259-4	Worklist Smp#:	29
Client ID:	HD-MW-15-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Report Date: 07-Oct-2015 09:16:35 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006029.D

Injection Date: 06-Oct-2015 23:25:30 Instrument ID: CHHP6

Lims ID: 180-48259-A-4 Lab Sample ID: 180-48259-4

Client ID: HD-MW-15-0/1-0

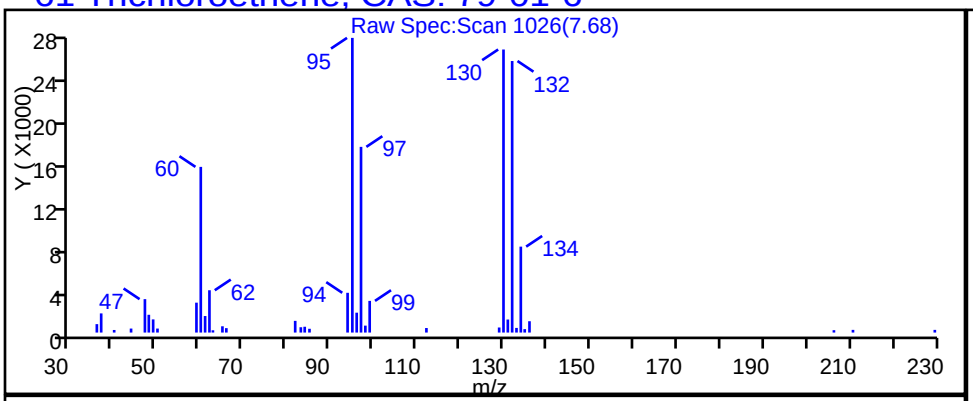
Operator ID: 001562 ALS Bottle#: 29 Worklist Smp#: 29

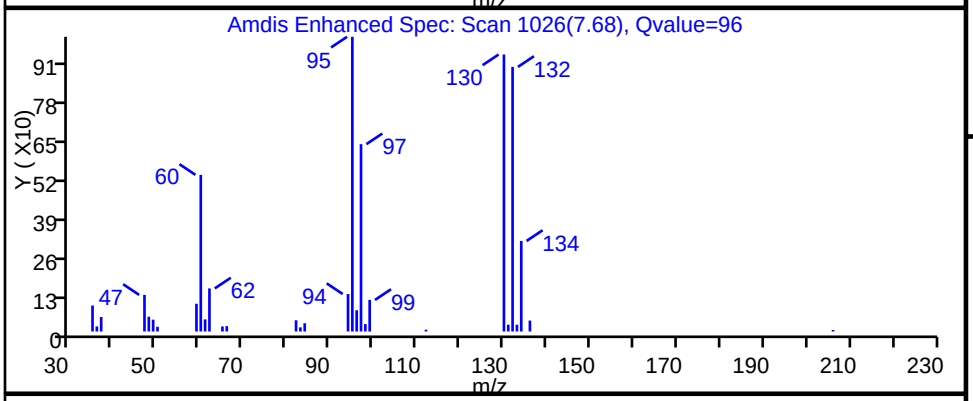
Purge Vol: 5.000 mL Dil. Factor: 1.0000

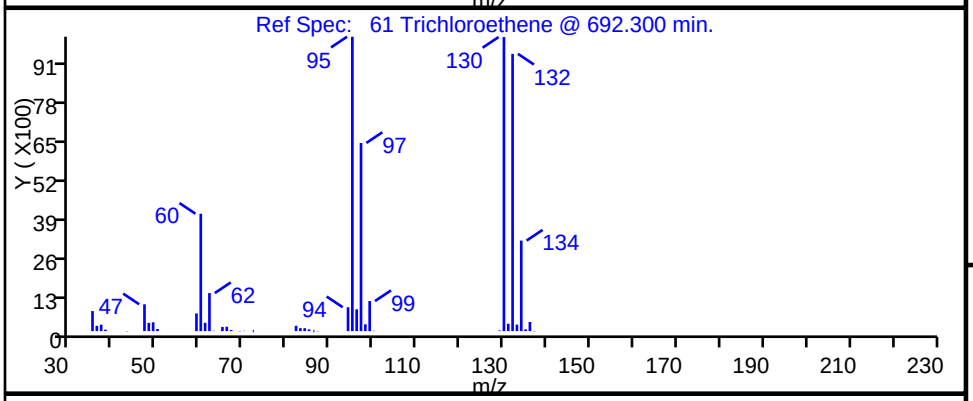
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL

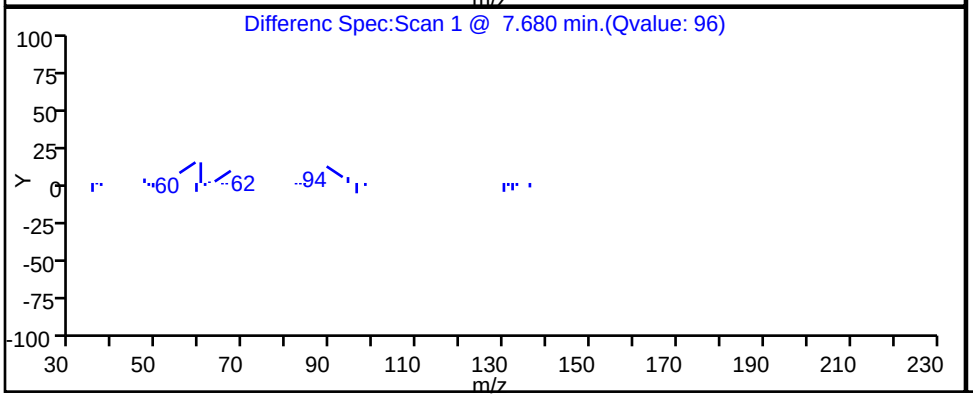
Column: DB-624 (0.18 mm) Detector MS SCAN

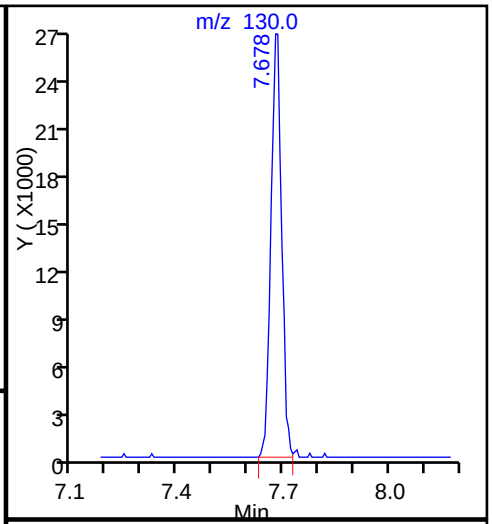
61 Trichloroethene, CAS: 79-01-6

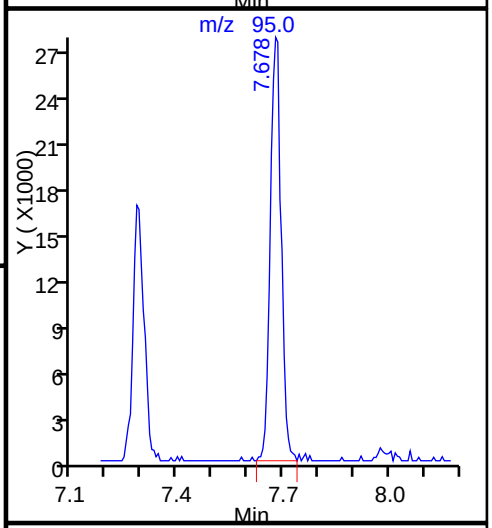


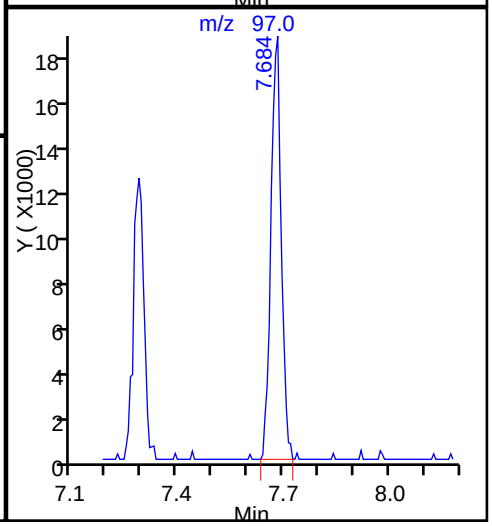












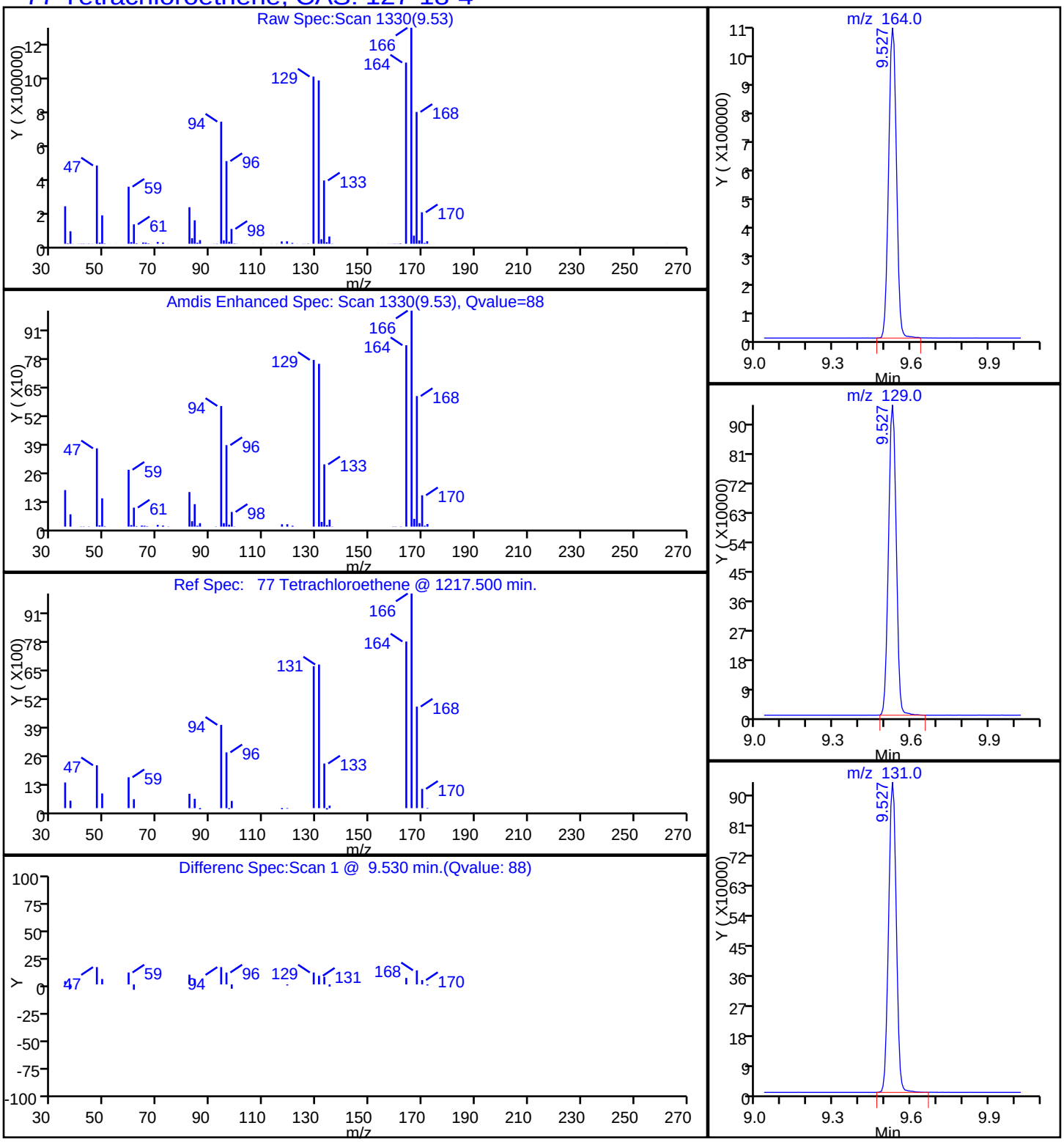
Report Date: 07-Oct-2015 09:16:35 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006029.D

Injection Date:	06-Oct-2015 23:25:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-A-4	Lab Sample ID:	180-48259-4		
Client ID:	HD-MW-15-0/1-0				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

77 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-15-0/1-0 DL | Lab Sample ID: 180-48259-4 DL

Matrix: Water | Lab File ID: 61007012.D

Analysis Method: 8260C | Date Collected: 09/29/2015 08:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 17:13

Soil Aliquot Vol: | Dilution Factor: 12.5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	13	U	13	3.5
75-01-4	Vinyl chloride	13	U	13	2.8
74-83-9	Bromomethane	13	U ^c	13	3.9
75-00-3	Chloroethane	13	U	13	2.7
75-35-4	1,1-Dichloroethene	13	U	13	3.7
67-64-1	Acetone	63	U	63	31
75-15-0	Carbon disulfide	13	U	13	2.7
75-09-2	Methylene Chloride	13	U	13	1.6
156-60-5	trans-1,2-Dichloroethene	13	U	13	2.1
1634-04-4	Methyl tert-butyl ether	13	U	13	2.3
75-34-3	1,1-Dichloroethane	13	U	13	1.5
156-59-2	cis-1,2-Dichloroethene	13	U	13	3.0
74-97-5	Bromochloromethane	13	U	13	2.3
78-93-3	2-Butanone (MEK)	63	U	63	6.8
67-66-3	Chloroform	13	U	13	2.1
71-55-6	1,1,1-Trichloroethane	13	U	13	3.6
56-23-5	Carbon tetrachloride	13	U	13	1.7
71-43-2	Benzene	13	U	13	1.3
107-06-2	1,2-Dichloroethane	13	U	13	2.6
79-01-6	Trichloroethene	4.3	J	13	1.8
78-87-5	1,2-Dichloropropane	13	U	13	1.2
75-27-4	Bromodichloromethane	13	U	13	1.6
10061-01-5	cis-1,3-Dichloropropene	13	U	13	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	63	U	63	6.6
108-88-3	Toluene	13	U	13	1.9
10061-02-6	trans-1,3-Dichloropropene	13	U	13	1.9
79-00-5	1,1,2-Trichloroethane	13	U	13	2.5
127-18-4	Tetrachloroethene	210		13	1.9
591-78-6	2-Hexanone	63	U ^c	63	2.0
124-48-1	Dibromochloromethane	13	U	13	1.7
106-93-4	1,2-Dibromoethane (EDB)	13	U	13	2.3
108-90-7	Chlorobenzene	13	U	13	1.7
630-20-6	1,1,1,2-Tetrachloroethane	13	U ^c	13	3.5
100-41-4	Ethylbenzene	13	U	13	2.8
1330-20-7	Xylenes, Total	38	U	38	6.1
100-42-5	Styrene	13	U ^c	13	1.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-15-0/1-0 DL | Lab Sample ID: 180-48259-4 DL

Matrix: Water | Lab File ID: 61007012.D

Analysis Method: 8260C | Date Collected: 09/29/2015 08:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 17:13

Soil Aliquot Vol: | Dilution Factor: 12.5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	*Bromoform*	*13*	*U ^c*	*13*	*2.4*
79-34-5	*1,1,2,2-Tetrachloroethane*	*13*	*U*	*13*	*2.5*
107-13-1	*Acrylonitrile*	*250*	*U ^c*	*250*	*6.8*
123-91-1	*1,4-Dioxane*	*2500*	*U ^c*	*2500*	*430*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		64-135
2037-26-5	Toluene-d8 (Surr)	99		71-118
460-00-4	4-Bromofluorobenzene (Surr)	82		70-118
1868-53-7	Dibromofluoromethane (Surr)	96		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007012.D
Lims ID: 180-48259-C-4 Lab Sample ID: 180-48259-4
Client ID: HD-MW-15-0/1-0
Sample Type: Client
Inject. Date: 07-Oct-2015 17:13:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 12.5000
Sample Info: 180-48259-C-4, 12.5x
Misc. Info.: 180-0008874-012
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 08:40:51 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 08:40:51

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	4.241	4.245	-0.004	92	188253	1000.0	
*	2 Fluorobenzene (IS)	96	7.289	7.281	0.008	97	477364	50.0	
*	3 Chlorobenzene-d5	119	10.398	10.396	0.002	90	116699	50.0	
*	4 1,4-Dichlorobenzene-d4	152	12.746	12.750	-0.004	97	181241	50.0	
$	5 Dibromofluoromethane (Surr	113	6.553	6.551	0.002	92	105863	48.2	
$	6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.928	0.008	70	175220	49.4	
$	7 Toluene-d8 (Surr)	98	8.944	8.942	0.002	94	457022	49.7	
$	8 4-Bromofluorobenzene (Surr	95	11.584	11.588	-0.004	87	168443	41.2	
	12 Chloromethane	50		1.757				ND	
	13 Vinyl chloride	62		1.903				ND	
	15 Bromomethane	94		2.232				ND	
	16 Chloroethane	64		2.371				ND	
	22 1,1-Dichloroethene	96		3.339				ND	
	24 Acetone	43		3.418				ND	
	26 Carbon disulfide	76		3.625				ND	
	31 Methylene Chloride	84		4.124				ND	
	33 Acrylonitrile	53		4.501				ND	
	34 trans-1,2-Dichloroethene	96		4.568				ND	
	35 Methyl tert-butyl ether	73		4.574				ND	
	37 1,1-Dichloroethane	63		5.188				ND	
	43 cis-1,2-Dichloroethene	96		5.936				ND	
	44 2-Butanone (MEK)	43		5.949				ND	
	48 Chlorobromomethane	128		6.222				ND	
	50 Chloroform	83		6.368				ND	
	51 1,1,1-Trichloroethane	97		6.539				ND	
	53 Carbon tetrachloride	117		6.709				ND	
	56 Benzene	78		6.940				ND	
	57 1,2-Dichloroethane	62		7.013				ND	
	61 Trichloroethene	130	7.679	7.676	0.003	91	3983	1.72	
	64 1,2-Dichloropropane	63		7.950				ND	
	65 1,4-Dioxane	88		8.029				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.230				ND	
71 cis-1,3-Dichloropropene	75		8.674				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
73 Toluene	91		9.009				ND	
74 trans-1,3-Dichloropropene	75		9.252				ND	
76 1,1,2-Trichloroethane	97		9.447				ND	
77 Tetrachloroethene	164	9.528	9.526	0.002	98	174289	84.9	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.824				ND	
82 Ethylene Dibromide	107		9.939				ND	
84 Chlorobenzene	112		10.426				ND	
86 1,1,1,2-Tetrachloroethane	131		10.523				ND	
87 Ethylbenzene	106		10.523				ND	
88 m-Xylene & p-Xylene	106		10.657				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.059				ND	
91 Bromoform	173		11.241				ND	
96 1,1,2,2-Tetrachloroethane	83		11.716				ND	
S 131 Xylenes, Total	106		1.000				ND	

Reagents:

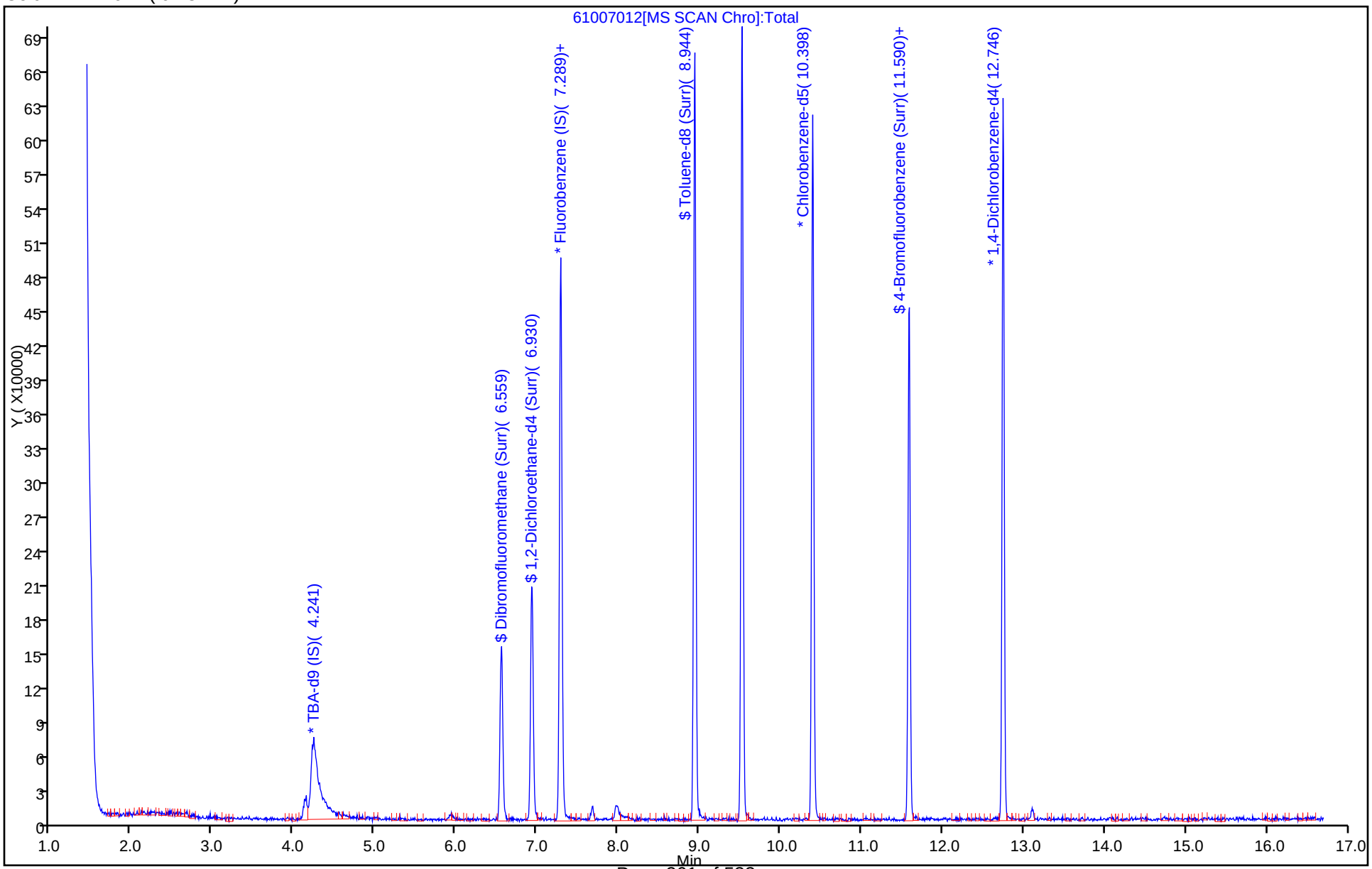
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 08-Oct-2015 08:40:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007012.D				
Injection Date:	07-Oct-2015 17:13:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48259-C-4	Lab Sample ID:	180-48259-4	Worklist Smp#:	12
Client ID:	HD-MW-15-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	12.5000	ALS Bottle#:	12
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



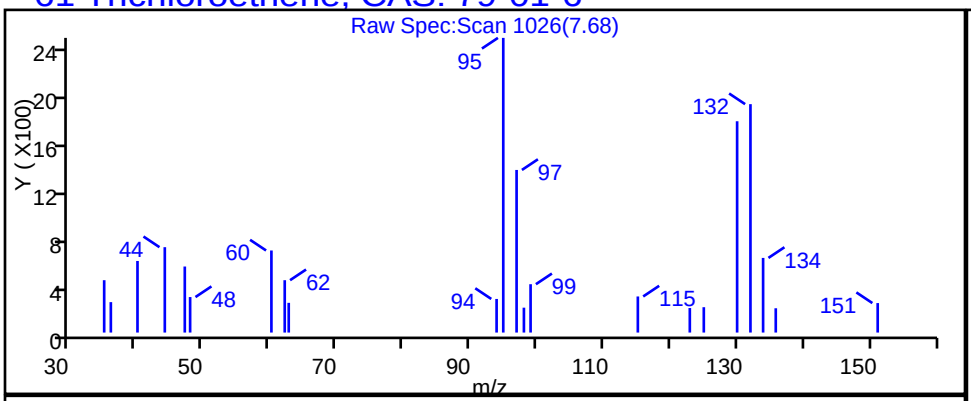
Report Date: 08-Oct-2015 08:40:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

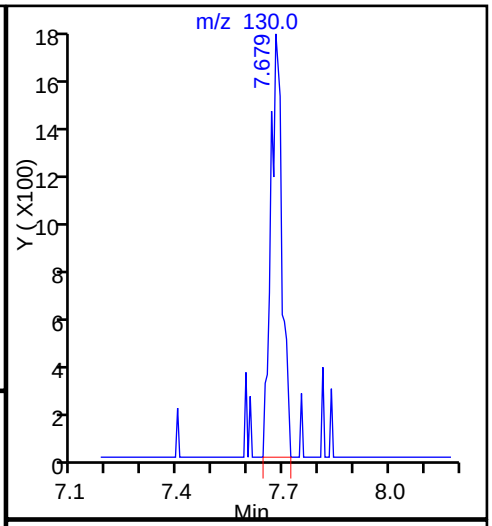
TestAmerica Pittsburgh

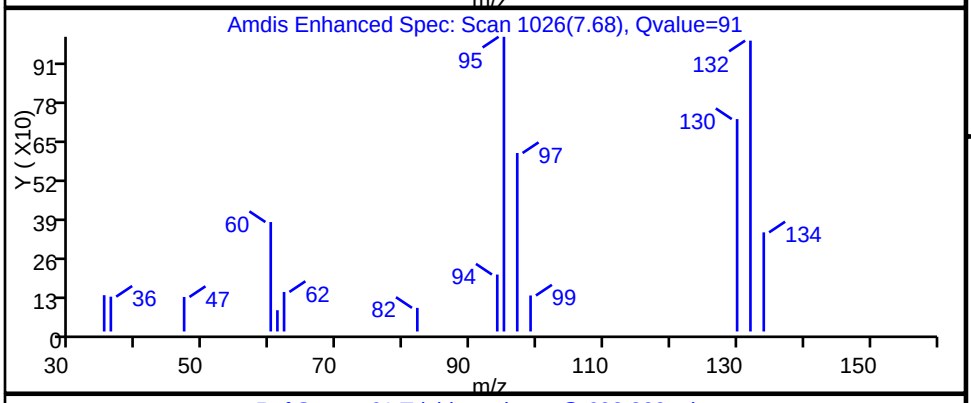
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007012.D

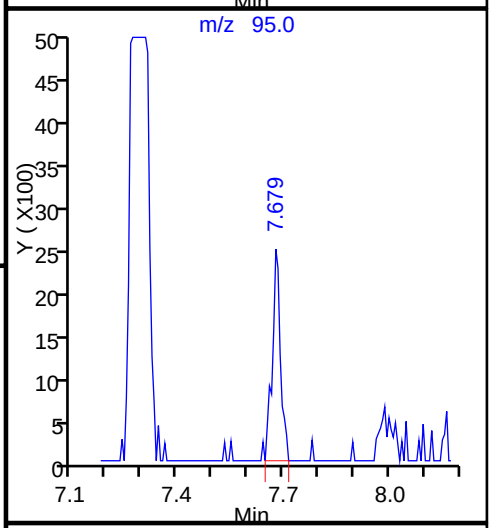
Injection Date:	07-Oct-2015 17:13:30	Instrument ID:	CHHP6		
Lims ID:	180-48259-C-4	Lab Sample ID:	180-48259-4		
Client ID:	HD-MW-15-0/1-0				
Operator ID:	001562	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	12.5000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

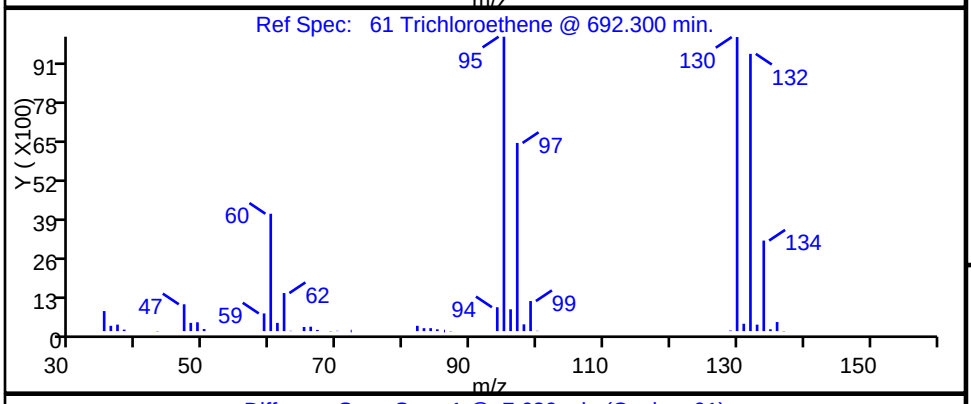
61 Trichloroethene, CAS: 79-01-6

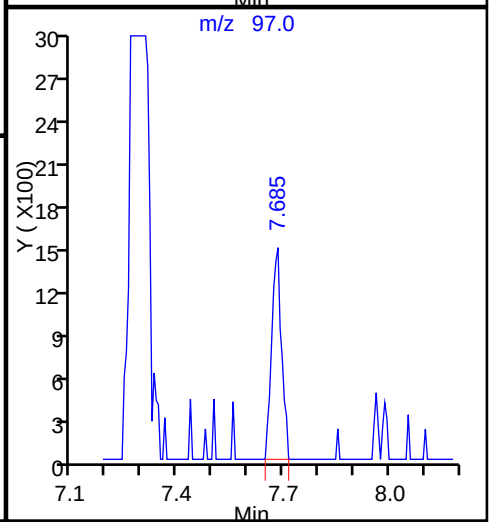


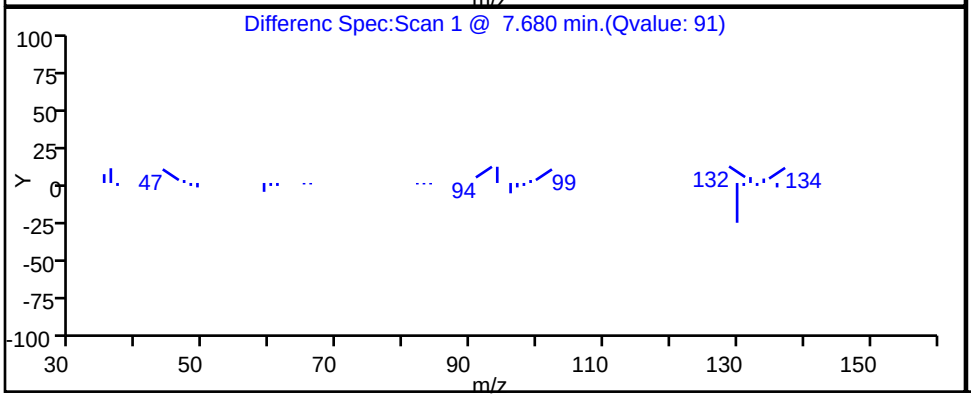












Report Date: 08-Oct-2015 08:40:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007012.D

Injection Date: 07-Oct-2015 17:13:30 Instrument ID: CHHP6

Lims ID: 180-48259-C-4 Lab Sample ID: 180-48259-4

Client ID: HD-MW-15-0/1-0

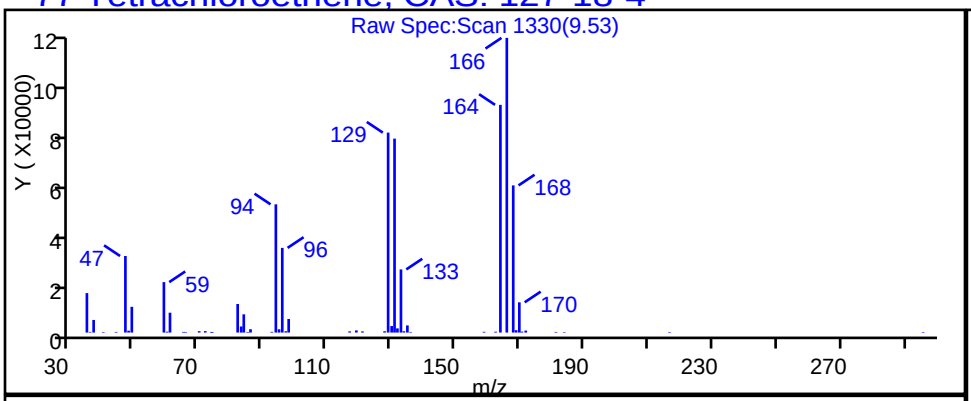
Operator ID: 001562 ALS Bottle#: 12 Worklist Smp#: 12

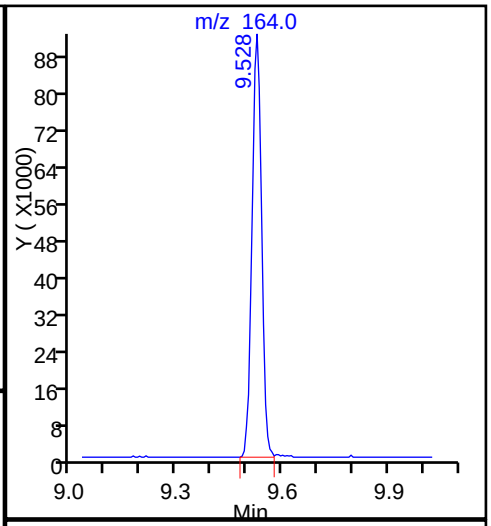
Purge Vol: 5.000 mL Dil. Factor: 12.5000

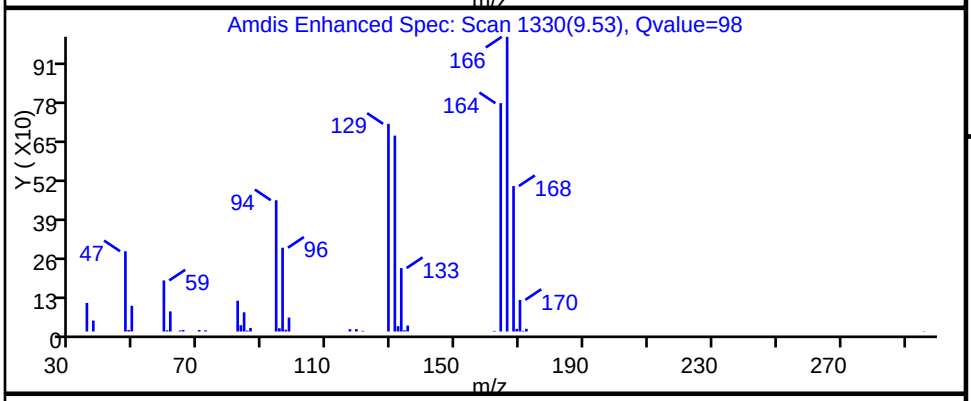
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL

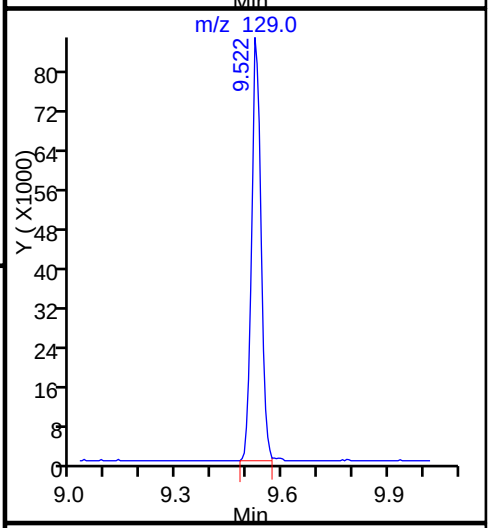
Column: DB-624 (0.18 mm) Detector MS SCAN

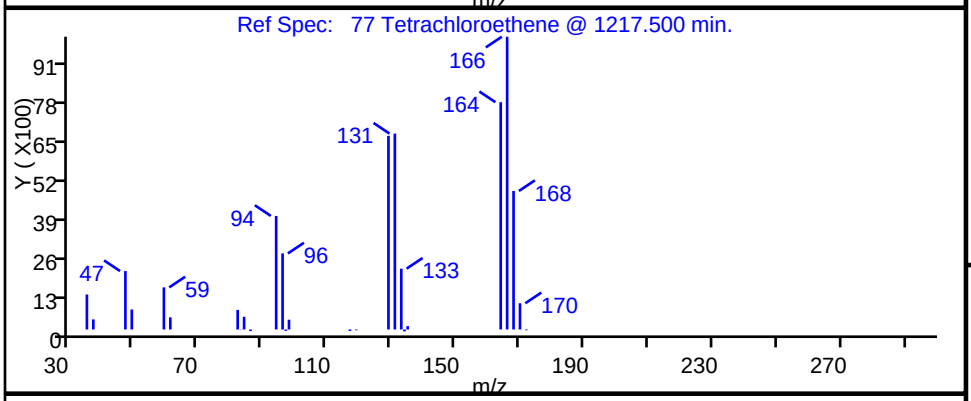
77 Tetrachloroethene, CAS: 127-18-4

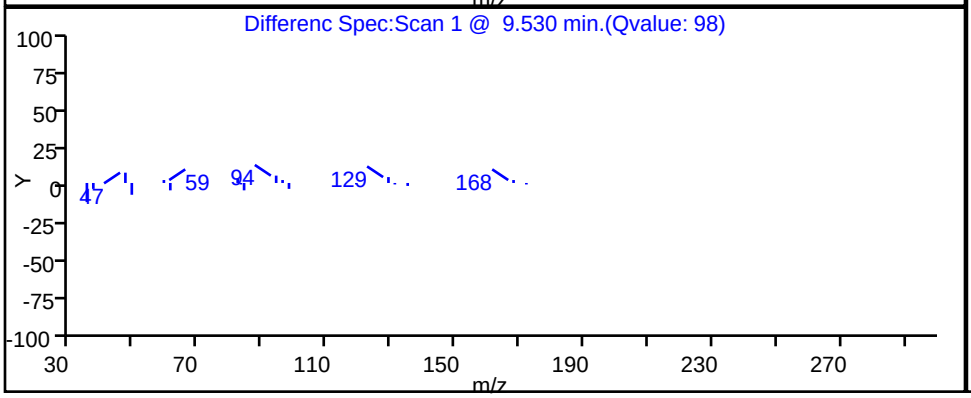


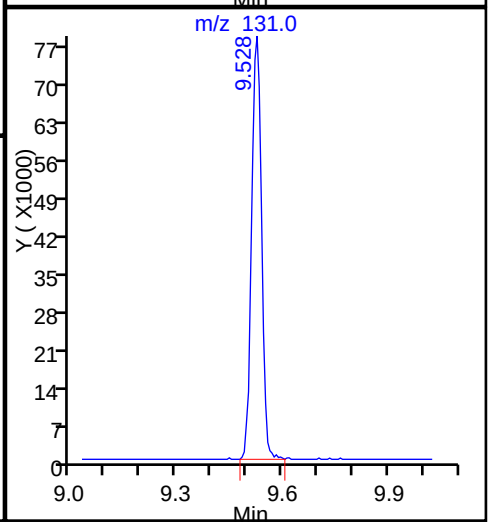












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-QC11-0/1-2 | Lab Sample ID: 180-48259-5

Matrix: Water | Lab File ID: 61006020.D

Analysis Method: 8260C | Date Collected: 09/29/2015 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 19:45

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.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U ^c	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U ^c	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-QC11-0/1-2 | Lab Sample ID: 180-48259-5

Matrix: Water | Lab File ID: 61006020.D

Analysis Method: 8260C | Date Collected: 09/29/2015 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 19:45

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.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-135
2037-26-5	Toluene-d8 (Surr)	100		71-118
460-00-4	4-Bromofluorobenzene (Surr)	92		70-118
1868-53-7	Dibromofluoromethane (Surr)	112		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006020.D
Lims ID: 180-48259-B-5 Lab Sample ID: 180-48259-5
Client ID: HD-QC11-0/1-2
Sample Type: Client
Inject. Date: 06-Oct-2015 19:45:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48259-B-5
Misc. Info.: 180-0008851-020
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 07-Oct-2015 09:05:19 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: fergusond Date: 07-Oct-2015 09:05:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.244	4.230	0.014	92	187289	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.290	-0.004	97	394397	50.0	
* 3 Chlorobenzene-d5	119	10.395	10.399	-0.004	90	103142	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.747	0.002	97	183471	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.556	0.000	94	101596	55.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.933	0.000	70	158945	54.2	
$ 7 Toluene-d8 (Surr)	98	8.941	8.941	0.000	94	406861	50.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.581	0.006	85	166364	46.1	
12 Chloromethane	50		1.774				ND	
13 Vinyl chloride	62		1.902				ND	
15 Bromomethane	94		2.249				ND	
16 Chloroethane	64		2.389				ND	
22 1,1-Dichloroethene	96		3.338				ND	
24 Acetone	43		3.423				ND	
26 Carbon disulfide	76		3.630				ND	
31 Methylene Chloride	84		4.129				ND	
33 Acrylonitrile	53		4.500				ND	
35 Methyl tert-butyl ether	73		4.567				ND	
34 trans-1,2-Dichloroethene	96		4.567				ND	
37 1,1-Dichloroethane	63		5.193				ND	
44 2-Butanone (MEK)	43		5.942				ND	
43 cis-1,2-Dichloroethene	96		5.942				ND	
48 Chlorobromomethane	128		6.228				ND	
50 Chloroform	83		6.374				ND	
51 1,1,1-Trichloroethane	97		6.538				ND	
53 Carbon tetrachloride	117		6.714				ND	
56 Benzene	78		6.939				ND	
57 1,2-Dichloroethane	62		7.018				ND	
61 Trichloroethene	130		7.675				ND	
64 1,2-Dichloropropane	63		7.949				ND	
65 1,4-Dioxane	88		8.034				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.229				ND	
71 cis-1,3-Dichloropropene	75		8.673				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.825				ND	
73 Toluene	91		9.008				ND	
74 trans-1,3-Dichloropropene	75		9.251				ND	
76 1,1,2-Trichloroethane	97		9.452				ND	
77 Tetrachloroethene	164		9.525				ND	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.823				ND	
82 Ethylene Dibromide	107		9.938				ND	
84 Chlorobenzene	112		10.425				ND	
86 1,1,1,2-Tetrachloroethane	131		10.522				ND	
87 Ethylbenzene	106		10.529				ND	
88 m-Xylene & p-Xylene	106		10.662				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.058				ND	
91 Bromoform	173		11.246				ND	
96 1,1,2,2-Tetrachloroethane	83		11.715				ND	
S 131 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

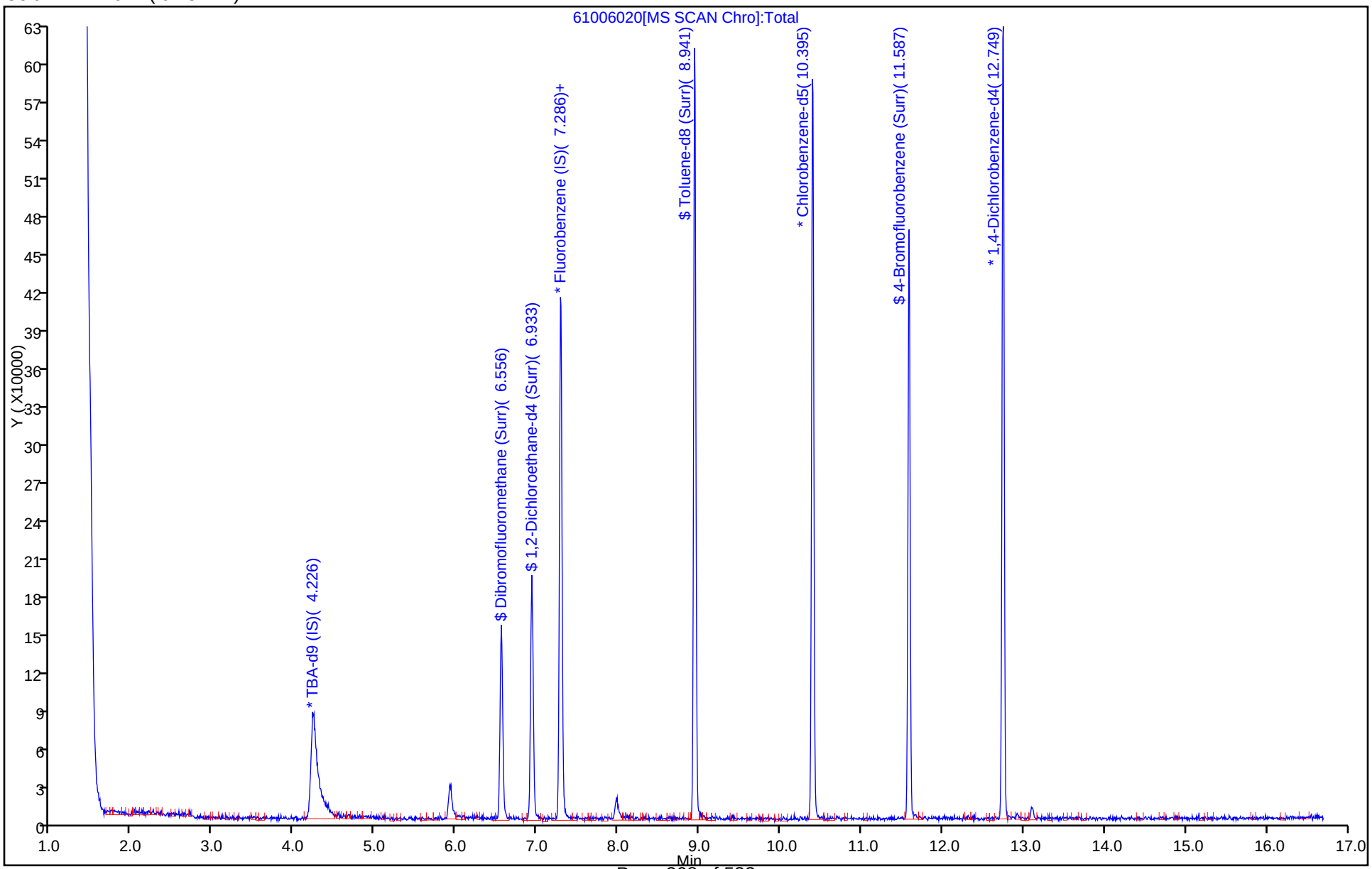
Report Date: 07-Oct-2015 09:05:19 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006020.D

Injection Date:	06-Oct-2015 19:45:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48259-B-5	Lab Sample ID:	180-48259-5	Worklist Smp#:	20
Client ID:	HD-QC11-0/1-2				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-149469/14	60731014.D
Level 2	IC 180-149469/4	60731004.D
Level 3	ICIS 180-149469/5	60731005.D
Level 4	IC 180-149469/6	60731006.D
Level 5	IC 180-149469/7	60731007.D
Level 6	IC 180-149469/8	60731008.D
Level 7	IC 180-149469/9	60731009.D
Level 8	IC 180-149469/10	60731010.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								
Dichlorodifluoromethane	0.3784 0.3460	0.3285 0.3562	0.3421 0.3286	0.3615	0.3285	Ave		0.3462			0.1000	5.3		20.0			
Chloromethane	0.3392 0.2834	0.3040 0.2926	0.3038 0.2799	0.2953	0.2891	Ave		0.2984			0.1000	6.2		20.0			
Vinyl chloride	0.3459 0.3113	0.3263 0.3277	0.3180 0.3087	0.3307	0.3028	Ave		0.3214			0.1000	4.4		20.0			
1,3-Butadiene	0.3349 0.2908	0.3110 0.3014	0.3020 0.2828	0.3029	0.2847	Ave		0.3013			0.0100	5.5		20.0			
Bromomethane	0.2086 0.1495	0.1854 0.1475	0.1846 +++++	0.1749	0.1644	Ave		0.1735			0.0500	12.5		20.0			
Chloroethane	0.2173 0.2164	0.2251 0.2256	0.2291 0.2095	0.2259	0.2061	Ave		0.2194			0.0500	3.8		20.0			
Dichlorofluoromethane	0.5463 0.4931	0.5444 0.5038	0.5165 0.4737	0.5267	0.4802	Ave		0.5106			0.0100	5.4		20.0			
Trichlorofluoromethane	0.4247 0.4001	0.4150 0.4067	0.4245 0.3867	0.4197	0.3805	Ave		0.4072			0.1000	4.2		20.0			
Ethyl ether	0.3195 0.2756	0.2914 0.2931	0.2819 0.2818	0.2864	0.2793	Ave		0.2886			0.0100	4.8		20.0			
Acrolein	0.0310 0.0318	0.0309 0.0342	0.0297 0.0340	0.0320	0.0281	Ave		0.0315			0.0100	6.5		20.0			
1,1-Dichloroethene	0.2600 0.2474	0.2411 0.2670	0.2447 0.2555	0.2551	0.2426	Ave		0.2517			0.1000	3.7		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2893 0.2688	0.2611 0.2694	0.2602 0.2595	0.2670	0.2502	Ave		0.2657			0.1000	4.3		20.0			
Acetone	0.0973 0.0856	0.0931 0.0888	0.0785 0.0945	0.0834	0.0864	Ave		0.0885			0.0500	7.1		20.0			
Iodomethane	0.3086 0.3409	0.3325 0.3671	0.3285 0.3511	0.3438	0.3304	Ave		0.3379			0.0100	5.1		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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								
Carbon disulfide	0.5727 0.6930	0.5928 0.7451	0.6074 0.7142	0.6519	0.6407	Ave		0.6522			0.1000	9.4		20.0			
Allyl chloride	0.1218 0.1547	0.1181 0.1646	0.1364 0.1606	0.1388	0.1402	Ave		0.1419			0.0100	12.0		20.0			
Methyl acetate	0.2192 0.2022	0.2017 0.2144	0.2047 0.2065	0.2072	0.2036	Ave		0.2074			0.1000	3.0		20.0			
Methylene Chloride	0.6631 0.3174	0.3874 0.3424	0.3361 0.3218	0.3366	0.3254	Lin2	1.7443	0.3138			0.1000				0.9990		0.9900
tert-Butyl alcohol	1.2140 1.0554	1.0995 1.1213	1.1428 1.0861	1.1107	1.1728	Ave		1.1253			0.0100	4.5		20.0			
Acrylonitrile	0.1067 0.1050	0.1002 0.1099	0.1033 0.1041	0.1042	0.1030	Ave		0.1046			0.0100	2.7		20.0			
trans-1,2-Dichloroethene	0.2889 0.2884	0.2883 0.3069	0.2879 0.2909	0.2950	0.2774	Ave		0.2905			0.1000	2.9		20.0			
Methyl tert-butyl ether	0.8998 0.8761	0.8047 0.9451	0.8127 0.8903	0.8782	0.8559	Ave		0.8703			0.1000	5.3		20.0			
Hexane	0.4211 0.4030	0.3676 0.4125	0.3850 0.3998	0.3938	0.3659	Ave		0.3936			0.0100	5.0		20.0			
1,1-Dichloroethane	0.5075 0.5187	0.5138 0.5491	0.5187 0.5191	0.5246	0.5085	Ave		0.5200			0.2000	2.5		20.0			
Vinyl acetate	0.3814 0.4481	0.3469 0.4857	0.3831 0.4671	0.4180	0.4276	Ave		0.4197			0.0100	11.2		20.0			
2,2-Dichloropropane	0.2106 0.2916	0.2324 0.2998	0.2516 0.2938	0.2636	0.2601	Ave		0.2629			0.0100	12.0		20.0			
cis-1,2-Dichloroethene	0.3288 0.3134	0.2997 0.3336	0.3121 0.3178	0.3154	0.3061	Ave		0.3158			0.1000	3.5		20.0			
2-Butanone (MEK)	0.1157 0.1241	0.1112 0.1317	0.1112 0.1244	0.1274	0.1201	Ave		0.1207			0.0500	6.2		20.0			
Bromochloromethane	0.1341 0.1264	0.1227 0.1349	0.1194 0.1303	0.1248	0.1226	Ave		0.1269			0.0100	4.5		20.0			
Tetrahydrofuran	0.0899 0.0835	0.0679 0.0856	0.0729 0.0875	0.0830	0.0802	Ave		0.0813			0.0100	9.2		20.0			
Chloroform	0.5240 0.5101	0.5110 0.5372	0.5156 0.5057	0.5231	0.5023	Ave		0.5161			0.2000	2.2		20.0			
1,1,1-Trichloroethane	0.3298 0.3969	0.3454 0.4238	0.3768 0.4049	0.3936	0.3797	Ave		0.3814			0.1000	8.1		20.0			
Cyclohexane	0.4970 0.5019	0.4468 0.5151	0.4891 0.4904	0.5075	0.4613	Ave		0.4886			0.1000	4.8		20.0			
Carbon tetrachloride	0.2286 0.2886	0.2478 0.3002	0.2596 0.2920	0.2763	0.2618	Ave		0.2694			0.1000	9.1		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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								
1,1-Dichloropropene	0.3926 0.4066	0.3932 0.4288	0.4179 0.4097	0.4260	0.4065	Ave		0.4102			0.0100	3.3		20.0			
Isobutyl alcohol	0.0064 0.0079	0.0060 0.0084	0.0067 0.0082	0.0069	0.0074	Ave		0.0072		*	0.0100	12.0		20.0			
Benzene	1.3108 1.1051	1.1747 1.1573	1.1838 1.0686	1.1862	1.1360	Ave		1.1653			0.5000	6.1		20.0			
1,2-Dichloroethane	0.5170 0.4491	0.4680 0.4788	0.4635 0.4465	0.4749	0.4571	Ave		0.4694			0.1000	4.8		20.0			
n-Heptane	0.3283 0.3166	0.2930 0.3296	0.3187 0.3201	0.3273	0.3009	Ave		0.3168			0.0100	4.2		20.0			
Trichloroethene	0.2495 0.2439	0.2242 0.2580	0.2340 0.2443	0.2514	0.2390	Ave		0.2430			0.2000	4.4		20.0			
Methylcyclohexane	0.4988 0.5022	0.4670 0.5125	0.4962 0.4944	0.5026	0.4718	Ave		0.4932			0.1000	3.2		20.0			
1,2-Dichloropropane	0.3004 0.2740	0.2605 0.2918	0.2603 0.2810	0.2821	0.2771	Ave		0.2784			0.1000	5.0		20.0			
1,4-Dioxane	0.0025 0.0030	0.0022 0.0032	0.0027 0.0030	0.0026	0.0028	Ave		0.0027		*	0.0100	11.1		20.0			
Dibromomethane	0.1697 0.1704	0.1570 0.1809	0.1594 0.1730	0.1722	0.1697	Ave		0.1690			0.0100	4.5		20.0			
Bromodichloromethane	0.2616 0.3321	0.2926 0.3618	0.2967 0.3476	0.3256	0.3231	Ave		0.3176			0.2000	10.2		20.0			
cis-1,3-Dichloropropene	0.2584 0.3913	0.2782 0.4177	0.3074 0.4064	0.3604	0.3717	Ave		0.3489			0.2000	17.3		20.0			
4-Methyl-2-pentanone (MIBK)	0.8987 1.0658	0.9802 1.1445	0.9985 1.0527	1.0544	1.0284	Ave		1.0279			0.1000	7.0		20.0			
Toluene	5.9056 4.7537	5.5995 4.8374	5.4167 4.3396	5.4012	5.0191	Ave		5.1591			0.4000	9.9		20.0			
trans-1,3-Dichloropropene	0.8702 1.4914	1.1099 1.5454	1.1917 1.4764	1.4148	1.3777	Ave		1.3097			0.1000	17.8		20.0			
Ethyl methacrylate	1.0584 1.5306	1.1597 1.6211	1.2934 1.5074	1.4730	1.4851	Ave		1.3911			0.0100	14.3		20.0			
1,1,2-Trichloroethane	1.1649 1.0331	1.0986 1.0808	1.0395 0.9995	1.0976	1.0221	Ave		1.0670			0.1000	5.0		20.0			
Tetrachloroethene	0.9697 0.8437	0.9092 0.8645	0.8932 0.8142	0.9113	0.8341	Ave		0.8800			0.2000	5.8		20.0			
1,3-Dichloropropane	2.1051 1.8922	2.0770 1.9466	1.9733 1.8014	2.0412	1.9340	Ave		1.9713			0.0100	5.1		20.0			
2-Hexanone	0.5961 0.7048	0.6359 0.7303	0.6480 0.6962	0.7009	0.6879	Ave		0.6750			0.1000	6.6		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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								
Dibromochloromethane	0.4970 0.7956	0.6594 0.8501	0.6992 0.7965	0.7868	0.7414	Ave		0.7283			0.1000	15.3		20.0			
1,2-Dibromoethane (EDB)	0.9377 0.9584	0.9062 1.0009	0.8845 0.9279	0.9777	0.9601	Ave		0.9442			0.1000	4.0		20.0			
3-Chlorobenzotrifluoride	1.9346 1.5843	1.7960 1.5900	1.7022 1.3868	1.6742	1.5483	Ave		1.6520			0.0100	10.1		20.0			
Chlorobenzene	3.5287 3.0123	3.3662 3.0694	3.2495 2.7949	3.2738	3.0742	Ave		3.1711			0.5000	7.2		20.0			
4-Chlorobenzotrifluoride	1.6752 1.5041	1.6791 1.5135	1.5757 1.3040	1.5621	1.4356	Ave		1.5312			0.0100	8.1		20.0			
1,1,1,2-Tetrachloroethane	0.6900 0.9213	0.8149 0.9909	0.8591 0.9158	0.8859	0.8746	Ave		0.8691			0.0100	10.2		20.0			
Ethylbenzene	1.8948 1.7498	1.7825 1.8007	1.8382 1.6637	1.8404	1.7406	Ave		1.7888			0.1000	4.0		20.0			
m-Xylene & p-Xylene	2.2690 2.1710	2.2783 2.2282	2.2514 2.0794	2.2987	2.1836	Ave		2.2200			0.1000	3.3		20.0			
o-Xylene	2.1401 2.1982	2.2838 2.2768	2.2497 2.0945	2.3260	2.1995	Ave		2.2211			0.3000	3.5		20.0			
Styrene	3.0262 3.3999	3.5063 3.5053	3.5865 3.2169	3.6244	3.4204	Ave		3.4107			0.3000	5.9		20.0			
Bromoform	0.2774 0.4245	0.3854 0.4551	0.3553 0.4390	0.3847	0.3885	Ave		0.3887			0.1000	14.3		20.0			
2-Chlorobenzotrifluoride	1.7789 1.6566	1.8882 1.6800	1.7229 1.4654	1.7518	1.5913	Ave		1.6919			0.0100	7.5		20.0			
Isopropylbenzene	5.2778 5.0660	5.7181 5.1776	5.7365 4.6086	5.7208	5.2098	Ave		5.3144			0.1000	7.4		20.0			
1,1,2,2-Tetrachloroethane	1.4524 1.4044	1.5283 1.4375	1.4123 1.3480	1.4533	1.3845	Ave		1.4276			0.3000	3.8		20.0			
Bromobenzene	0.8149 0.7981	0.7780 0.8354	0.7958 0.7913	0.8100	0.8070	Ave		0.8038			0.0100	2.1		20.0			
trans-1,4-Dichloro-2-butene	0.2183 0.2782	0.2316 0.2872	0.2398 0.2842	0.2451	0.2549	Ave		0.2549			0.0100	10.1		20.0			
1,2,3-Trichloropropane	0.3115 0.3095	0.3103 0.3168	0.2929 0.3057	0.3005	0.2983	Ave		0.3057			0.0100	2.6		20.0			
N-Propylbenzene	0.8326 0.9631	0.8814 0.9609	0.9454 0.9440	0.9506	0.9278	Ave		0.9257			0.0100	4.9		20.0			
2-Chlorotoluene	0.7094 0.7751	0.7465 0.7992	0.7798 0.7755	0.7871	0.7761	Ave		0.7686			0.0100	3.7		20.0			
3-Chlorotoluene	0.7543 0.8420	0.8134 0.8337	0.8056 0.7727	0.8118	0.8241	Ave		0.8072			0.0100	3.7		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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								
1,3,5-Trimethylbenzene	2.7736 3.0025	3.0962 3.0472	3.1690 2.8036	3.1761	3.0091	Ave		3.0097			0.0100	5.0		20.0			
4-Chlorotoluene	0.7667 0.8064	0.7905 0.8463	0.8267 0.8136	0.8328	0.8125	Ave		0.8119			0.0100	3.1		20.0			
tert-Butylbenzene	2.1654 2.4390	2.2766 2.4763	2.4320 2.3179	2.5249	2.3935	Ave		2.3782			0.0100	5.0		20.0			
1,2,4-Trimethylbenzene	2.6641 3.0999	3.1580 3.1389	3.2410 2.8935	3.2855	3.1393	Ave		3.0775			0.0100	6.6		20.0			
3,4-Dichlorobenzotrifluoride	0.9506 0.8837	0.9051 0.8812	0.8433 0.8086	0.8848	0.8177	Ave		0.8719			0.0100	5.4		20.0			
sec-Butylbenzene	3.1858 3.5384	3.7184 3.5357	3.7627 3.2573	3.8203	3.5793	Ave		3.5497			0.0100	6.4		20.0			
1,3-Dichlorobenzene	1.6112 1.5388	1.6196 1.5936	1.5650 1.5066	1.5844	1.5419	Ave		1.5701			0.6000	2.5		20.0			
4-Isopropyltoluene	2.5478 3.0138	2.9539 3.0592	3.1574 2.8450	3.2053	3.0463	Ave		2.9786			0.0100	6.9		20.0			
1,4-Dichlorobenzene	1.6477 1.5662	1.6451 1.6298	1.6095 1.5306	1.6252	1.5856	Ave		1.6050			0.5000	2.6		20.0			
2,4-Dichlorobenzotrifluoride	0.8809 0.9283	0.9010 0.9168	0.8399 0.7625	0.8415	0.8683	Ave		0.8674			0.0100	6.1		20.0			
2,5-Dichlorobenzotrifluoride	1.1148 0.9323	0.9613 0.9470	0.9883 0.9297	0.9952	0.8812	Ave		0.9687			0.0100	7.1		20.0			
n-Butylbenzene	2.7413 3.0098	2.9731 3.0263	3.1192 2.7966	3.1553	2.9714	Ave		2.9741			0.0100	4.8		20.0			
1,2-Dichlorobenzene	1.7344 1.5614	1.6042 1.5872	1.5781 1.4856	1.5970	1.5347	Ave		1.5853			0.4000	4.5		20.0			
1,2-Dibromo-3-Chloropropane	0.1041 0.1673	0.1254 0.1741	0.1287 0.1752	0.1449	0.1432	Ave		0.1454			0.0500	17.6		20.0			
2,4- & 2,5- & 2,6- Dichlorotoluene	1.3659 1.3828	1.4490 1.3691	1.4643 1.2123	1.4309	1.3634	Ave		1.3797			0.0100	5.7		20.0			
2,3- & 3,4- Dichlorotoluene	1.4220 1.5594	1.5913 1.5578	1.5507 1.4014	1.5802	1.5161	Ave		1.5224			0.0100	4.7		20.0			
1,2,4-Trichlorobenzene	1.1743 1.2613	1.2132 1.2999	1.2170 1.2151	1.2351	1.2123	Ave		1.2285			0.2000	3.1		20.0			
Hexachlorobutadiene	0.4483 0.5040	0.4710 0.5079	0.4894 0.4926	0.4879	0.4705	Ave		0.4839			0.0100	4.1		20.0			
Naphthalene	1.9638 2.6901	2.2408 2.7319	2.4855 2.5560	2.6099	2.5577	Ave		2.4795			0.0100	10.3		20.0			
1,2,3-Trichlorobenzene	1.1813 1.1689	1.1348 1.2045	1.1056 1.1331	1.1438	1.1242	Ave		1.1495			0.0100	2.8		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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								
2,4,5-Trichlorotoluene	0.6523 0.8517	0.6908 0.8911	0.7114 0.8098	0.7914	0.7765	Ave		0.7719			0.0100	10.6		20.0			
2,3,6-Trichlorotoluene	0.6747 0.7987	0.6373 0.8256	0.7048 0.7502	0.7418	0.7252	Ave		0.7323			0.0100	8.4		20.0			
Dibromofluoromethane (Surr)	0.2580 0.2278	0.2120 0.2401	0.2284 0.2160	0.2307	0.2293	Ave		0.2303				6.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4370 0.3580	0.3544 0.3741	0.3729 0.3410	0.3684	0.3665	Ave		0.3715				7.7		20.0			
Toluene-d8 (Surr)	4.4422 3.7317	4.0733 3.7760	4.2664 3.2298	4.1020	3.9291	Ave		3.9438				9.5		20.0			
4-Bromofluorobenzene (Surr)	2.0841 1.7019	1.7074 1.7446	1.7653 1.5225	1.7965	1.6857	Ave		1.7510				9.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-149469/14	60731014.D
Level 2	IC 180-149469/4	60731004.D
Level 3	ICIS 180-149469/5	60731005.D
Level 4	IC 180-149469/6	60731006.D
Level 5	IC 180-149469/7	60731007.D
Level 6	IC 180-149469/8	60731008.D
Level 7	IC 180-149469/9	60731009.D
Level 8	IC 180-149469/10	60731010.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
Dichlorodifluoromethane	FB	Ave	17276 575043	76046 636192	166146 776950	255750	316945	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Ave	15485 470953	70391 522516	147560 661756	208858	278884	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	15792 517410	75541 585198	154423 729853	233901	292173	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	15290 483297	72002 538199	146675 668636	214248	274693	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Ave	9521 248522	42916 263364	89628 +++++	123705	158589	5.00 175	25.0 200	50.0 +++++	75.0	100
Chloroethane	FB	Ave	9922 359701	52119 402907	111283 495382	159781	198857	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	24941 819476	126043 899692	250823 1120159	372545	463283	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	19389 664854	96092 726249	206141 914267	296881	367084	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	14586 458021	67458 523507	136903 666334	202583	269465	5.00 175	25.0 200	50.0 250	75.0	100
Acrolein	FB	Ave	28320 68050	35802 76429	43327 88331	52894	54177	100 225	125 250	150 275	175	200
1,1-Dichloroethene	FB	Ave	11872 411177	55817 476887	118856 604031	180424	234083	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	13209 446711	60462 481169	126375 613669	188852	241359	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	22203 284563	43121 317270	76252 446823	117975	166807	25.0 350	50.0 400	100 500	150	200
Iodomethane	FB	Ave	14090 566533	76980 655616	159542 830188	243211	318736	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	26146 1151644	137245 1330649	294989 1688724	461167	618168	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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
Allyl chloride	FB	Ave	5562 257112	27346 293887	66228 379717	98190	135273	5.00 175	25.0 200	50.0 250	75.0	100
Methyl acetate	FB	Ave	50033 1680300	233460 1914014	497011 2441128	732698	982363	25.0 875	125 1000	250 1250	375	500
Methylene Chloride	FB	Lin2	30274 527474	89699 611401	163213 760977	238130	313904	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butyl alcohol	TBA	Ave	9874 354063	43837 426462	91997 559063	141735	198055	50.0 1750	250 2000	500 2500	750	1000
Acrylonitrile	FB	Ave	48723 1745686	231943 1961872	501701 2461613	737397	994141	50.0 1750	250 2000	500 2500	750	1000
trans-1,2-Dichloroethene	FB	Ave	13191 479327	66744 548086	139824 687783	208665	267617	5.00 175	25.0 200	50.0 250	75.0	100
Methyl tert-butyl ether	FB	Ave	41079 1455878	186303 1687770	394698 2105039	621185	825760	5.00 175	25.0 200	50.0 250	75.0	100
Hexane	FB	Ave	19223 669795	85113 736641	186977 945322	278592	352983	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethane	FB	Ave	23168 861981	118950 980644	251887 1227440	371113	490563	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl acetate	FB	Ave	17413 744628	80307 867464	186047 1104555	295714	412541	5.00 175	25.0 200	50.0 250	75.0	100
2,2-Dichloropropane	FB	Ave	9613 484574	53806 535345	122189 694588	186450	250901	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,2-Dichloroethene	FB	Ave	15010 520777	69383 595718	151575 751398	223081	295290	5.00 175	25.0 200	50.0 250	75.0	100
2-Butanone (MEK)	FB	Ave	26408 412307	51510 470276	108037 588377	180292	231667	25.0 350	50.0 400	100 500	150	200
Bromochloromethane	FB	Ave	6120 209995	28403 240962	58005 308059	88252	118290	5.00 175	25.0 200	50.0 250	75.0	100
Tetrahydrofuran	FB	Ave	8204 277489	31436 305718	70787 413888	117489	154776	10.0 350	50.0 400	100 500	150	200
Chloroform	FB	Ave	23924 847765	118313 959266	250393 1195678	370042	484585	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1-Trichloroethane	FB	Ave	15055 659562	79977 756837	182973 957300	278390	366376	5.00 175	25.0 200	50.0 250	75.0	100
Cyclohexane	FB	Ave	22688 834057	103455 919827	237539 1159567	359010	445084	5.00 175	25.0 200	50.0 250	75.0	100
Carbon tetrachloride	FB	Ave	10435 479558	57375 536127	126096 690480	195436	252588	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloropropene	FB	Ave	17924 675711	91039 765806	202951 968671	301319	392146	5.00 175	25.0 200	50.0 250	75.0	100
Isobutyl alcohol	FB	Ave	7317 326401	34707 375937	81470 482886	122452	178080	125 4375	625 5000	1250 6250	1875	2500

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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
Benzene	FB	Ave	59844 1836424	271972 2066671	574901 2526807	839117	1096030	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	23604 746328	108353 855052	225116 1055651	335915	440984	5.00 175	25.0 200	50.0 250	75.0	100
n-Heptane	FB	Ave	14990 526126	67835 588643	154761 756814	231524	290327	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	11389 405251	51907 460676	113666 577638	177868	230554	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	22772 834543	108113 915285	240977 1169092	355558	455180	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	13712 455391	60301 521174	126414 664355	199527	267345	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	2321 98136	10219 114196	26388 139772	36545	54577	100 3500	500 4000	1000 5000	1500	2000
Dibromomethane	FB	Ave	7749 283101	36346 323060	77394 409028	121844	163719	5.00 175	25.0 200	50.0 250	75.0	100
Bromodichloromethane	FB	Ave	11941 551929	67754 646107	144075 821950	230314	311750	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	11797 650196	64404 745866	149301 960857	254907	358605	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	42150 808342	90891 947711	208546 1194590	330779	452681	25.0 350	50.0 400	100 500	150	200
Toluene	CBZ	Ave	55394 1802740	259618 2002822	565645 2462377	847209	1104648	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBZ	Ave	8162 565592	51458 639831	124444 837722	221914	303226	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBZ	Ave	9928 580427	53768 671187	135064 855316	231048	326852	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBZ	Ave	10927 391776	50938 447467	108552 567107	172158	224945	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBZ	Ave	9096 319955	42156 357911	93269 461983	142949	183568	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBZ	Ave	19746 717566	96298 805963	206060 1022129	320167	425660	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBZ	Ave	27957 534519	58962 604727	135329 790089	219895	302805	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBZ	Ave	4662 301710	30573 351983	73014 451973	123420	163175	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBZ	Ave	8796 363449	42016 414395	92363 526477	153351	211303	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorobenzotrifluoride	CBZ	Ave	18146 600793	83271 658293	177755 786880	262608	340769	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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
Chlorobenzene	CBZ	Ave	33099 1142353	156070 1270819	339330 1585885	513514	676590	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorobenzotrifluoride	CBZ	Ave	15713 570403	77852 626628	164547 739908	245021	315960	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBZ	Ave	6472 349368	37781 410261	89710 519653	138964	192497	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBZ	Ave	17773 663577	82647 745552	191951 943999	288675	383099	5.00 175	25.0 200	50.0 250	75.0	100
m-Xylene & p-Xylene	CBZ	Ave	21283 823294	105633 922542	235109 1179895	360561	480587	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBZ	Ave	20074 833629	105888 942660	234926 1188451	364838	484093	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBZ	Ave	28385 1289309	162570 1451301	374525 1825312	568513	752806	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBZ	Ave	2602 160966	17870 188413	37102 249108	60348	85498	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorobenzotrifluoride	CBZ	Ave	16686 628216	87545 695569	179913 831476	274773	350232	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBZ	Ave	49505 1921153	265117 2143689	599038 2614965	897341	1146617	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBZ	Ave	13623 532593	70858 595171	147479 764885	227964	304710	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCB	Ave	12814 459843	61847 533334	136094 665597	203181	276525	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCB	Ave	3433 160304	18413 183338	41001 239026	61474	87362	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCB	Ave	4898 178317	24668 202262	50085 257089	75371	102213	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCB	Ave	13092 554932	70063 613443	161671 793964	238465	317924	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCB	Ave	11155 446590	59338 510216	133354 652311	197431	265955	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorotoluene	DCB	Ave	11861 485130	64658 532252	137766 649907	203636	282386	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCB	Ave	43612 1730016	246129 1945327	541915 2358116	796704	1031152	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCB	Ave	12056 464650	62837 540303	141377 684319	208897	278435	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCB	Ave	34048 1405341	180978 1580824	415895 1949627	633351	820194	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCB	Ave	41890 1786151	251042 2003823	554224 2433681	824147	1075766	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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
3,4-Dichlorobenzotrifluoride	DCB	Ave	14947 509173	71946 562570	144215 680073	221955	280215	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCB	Ave	50094 2038837	295586 2257148	643438 2739728	958306	1226548	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCB	Ave	25334 886632	128745 1017363	267626 1267194	397446	528372	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCB	Ave	40061 1736569	234813 1952987	539941 2392925	804039	1043904	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCB	Ave	25908 902441	130776 1040432	275229 1287354	407678	543357	5.00 175	25.0 200	50.0 250	75.0	100
2,4-Dichlorobenzotrifluoride	DCB	Ave	13852 534909	71623 585295	143623 641375	211084	297534	5.00 175	25.0 200	50.0 250	75.0	100
2,5-Dichlorobenzotrifluoride	DCB	Ave	17529 537191	76420 604585	169006 781945	249633	301973	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCB	Ave	43104 1734264	236342 1931969	533401 2352259	791496	1018212	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCB	Ave	27271 899668	127520 1013269	269873 1249514	400593	525918	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromo-3-Chloropropane	DCB	Ave	1637 96376	9971 111156	22010 147337	36339	49062	5.00 175	25.0 200	50.0 250	75.0	100
2,4- & 2,5- & 2,6- Dichlorotoluene	DCB	Ave	64430 2390336	345570 2621988	751227 3058923	1076776	1401616	15.0 525	75.0 600	150 750	225	300
2,3- & 3,4- Dichlorotoluene	DCB	Ave	44720 1797097	252992 1989024	530353 2357462	792789	1039069	10.0 350	50.0 400	100 500	150	200
1,2,4-Trichlorobenzene	DCB	Ave	18465 726756	96442 829845	208112 1022001	309817	415442	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCB	Ave	7049 290426	37440 324236	83692 414314	122376	161228	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCB	Ave	30879 1550041	178131 1744010	425036 2149836	654694	876449	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCB	Ave	18575 673533	90206 768952	189066 953082	286920	385220	5.00 175	25.0 200	50.0 250	75.0	100
2,4,5-Trichlorotoluene	DCB	Ave	10257 490754	54916 568870	121646 681135	198517	266093	5.00 175	25.0 200	50.0 250	75.0	100
2,3,6-Trichlorotoluene	DCB	Ave	10609 460224	50658 527070	120523 630961	186087	248497	5.00 175	25.0 200	50.0 250	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	11777 378487	49079 428779	110929 510673	163209	221245	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	19952 595019	82044 668015	181120 806396	260570	353626	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBZ	Ave	41667 1415164	188855 1563368	445521 1832665	643420	864751	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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
4-Bromofluorobenzene (Surr)	CBZ	Ave	19549 645419	79163 722308	184340 863895	281797	371000	5.00 175	25.0 200	50.0 250	75.0	100

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-149469/14	60731014.D
Level 2	IC 180-149469/4	60731004.D
Level 3	ICIS 180-149469/5	60731005.D
Level 4	IC 180-149469/6	60731006.D
Level 5	IC 180-149469/7	60731007.D
Level 6	IC 180-149469/8	60731008.D
Level 7	IC 180-149469/9	60731009.D
Level 8	IC 180-149469/10	60731010.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Methylene Chloride	0.2 6.3	1.2 0.3	-4.0	-0.1	-1.9	-2.0	40 40	40 40	40	40	40	40

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D
Lims ID: IC VSTD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Jul-2015 14:00:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD5
Misc. Info.: 180-0007999-004
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:15:33 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 31-Jul-2015 16:26:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.245	4.248	-0.003	91	159479	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.284	0.002	98	463046	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.395	10.398	-0.003	92	92729	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.743	12.747	-0.004	97	158987	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.554	0.002	68	49079	25.0	23.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.934	6.931	0.003	54	82044	25.0	23.8	
$ 7 Toluene-d8 (Surr)	98	8.941	8.938	0.003	93	188855	25.0	25.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.585	0.002	81	79163	25.0	24.4	
11 Dichlorodifluoromethane	85	1.611	1.608	0.002	99	76046	25.0	23.7	
12 Chloromethane	50	1.757	1.754	0.003	100	70391	25.0	25.5	
13 Vinyl chloride	62	1.884	1.888	-0.004	98	75541	25.0	25.4	
14 Butadiene	39	1.933	1.930	0.003	92	72002	25.0	25.8	
15 Bromomethane	94	2.231	2.228	0.003	91	42916	25.0	26.7	M
16 Chloroethane	64	2.377	2.368	0.009	98	52119	25.0	25.7	
17 Dichlorofluoromethane	67	2.651	2.648	0.003	97	126043	25.0	26.7	
18 Trichlorofluoromethane	101	2.669	2.660	0.009	85	96092	25.0	25.5	
20 Ethyl ether	59	3.046	3.049	-0.003	88	67458	25.0	25.2	
21 Acrolein	56	3.223	3.220	0.003	97	35802	125.0	122.8	
22 1,1-Dichloroethene	96	3.338	3.341	-0.003	95	55817	25.0	23.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.393	3.390	0.003	94	60462	25.0	24.6	
24 Acetone	43	3.429	3.421	0.008	99	43121	50.0	52.6	
25 Iodomethane	142	3.539	3.536	0.003	97	76980	25.0	24.6	
26 Carbon disulfide	76	3.636	3.627	0.009	100	137245	25.0	22.7	
29 3-Chloro-1-propene	76	3.922	3.919	0.003	61	27346	25.0	20.8	
30 Methyl acetate	43	3.934	3.926	0.008	97	233460	125.0	121.5	
31 Methylene Chloride	84	4.135	4.132	0.003	92	89699	25.0	25.3	
32 2-Methyl-2-propanol	59	4.366	4.370	-0.004	93	43837	250.0	244.3	
33 Acrylonitrile	53	4.500	4.503	-0.003	100	231943	250.0	239.5	
34 trans-1,2-Dichloroethene	96	4.555	4.564	-0.009	95	66744	25.0	24.8	
35 Methyl tert-butyl ether	73	4.573	4.576	-0.003	97	186303	25.0	23.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.987	4.990	-0.003	94	85113	25.0	23.4	
37 1,1-Dichloroethane	63	5.206	5.197	0.009	97	118950	25.0	24.7	
38 Vinyl acetate	43	5.236	5.240	-0.004	97	80307	25.0	20.7	
43 cis-1,2-Dichloroethene	96	5.948	5.939	0.009	84	69383	25.0	23.7	
44 2-Butanone (MEK)	43	5.948	5.945	0.003	56	51510	50.0	46.1	
42 2,2-Dichloropropane	77	5.942	5.945	-0.003	59	53806	25.0	22.1	
48 Chlorobromomethane	128	6.228	6.231	-0.003	94	28403	25.0	24.2	
49 Tetrahydrofuran	42	6.240	6.249	-0.009	81	31436	50.0	41.7	
50 Chloroform	83	6.368	6.371	-0.003	93	118313	25.0	24.8	
51 1,1,1-Trichloroethane	97	6.538	6.541	-0.003	96	79977	25.0	22.6	
52 Cyclohexane	56	6.611	6.620	-0.009	93	103455	25.0	22.9	
53 Carbon tetrachloride	117	6.708	6.718	-0.010	98	57375	25.0	23.0	
54 1,1-Dichloropropene	75	6.727	6.724	0.003	94	91039	25.0	24.0	
55 Isobutyl alcohol	41	6.903	6.900	0.003	95	34707	625.0	518.1	
56 Benzene	78	6.940	6.943	-0.003	97	271972	25.0	25.2	
57 1,2-Dichloroethane	62	7.019	7.016	0.003	98	108353	25.0	24.9	
59 n-Heptane	43	7.311	7.308	0.003	89	67835	25.0	23.1	
61 Trichloroethene	130	7.676	7.679	-0.003	92	51907	25.0	23.1	
63 Methylcyclohexane	83	7.925	7.922	0.003	91	108113	25.0	23.7	
64 1,2-Dichloropropane	63	7.949	7.953	-0.004	95	60301	25.0	23.4	
65 1,4-Dioxane	88	8.029	8.032	-0.003	40	10219	500.0	401.6	M
67 Dibromomethane	93	8.035	8.038	-0.003	91	36346	25.0	23.2	
68 Dichlorobromomethane	83	8.235	8.227	0.008	98	67754	25.0	23.0	
71 cis-1,3-Dichloropropene	75	8.673	8.677	-0.004	92	64404	25.0	19.9	
72 4-Methyl-2-pentanone (MIBK	43	8.826	8.823	0.003	95	90891	50.0	47.7	
73 Toluene	91	9.008	9.011	-0.003	97	259618	25.0	27.1	
74 trans-1,3-Dichloropropene	75	9.257	9.255	0.002	97	51458	25.0	21.2	
75 Ethyl methacrylate	69	9.312	9.315	-0.003	86	53768	25.0	20.8	
76 1,1,2-Trichloroethane	97	9.446	9.449	-0.003	96	50938	25.0	25.7	
77 Tetrachloroethene	164	9.525	9.522	0.003	92	42156	25.0	25.8	
78 1,3-Dichloropropane	76	9.604	9.607	-0.003	92	96298	25.0	26.3	
79 2-Hexanone	43	9.659	9.656	0.003	97	58962	50.0	47.1	
81 Chlorodibromomethane	129	9.817	9.826	-0.009	92	30573	25.0	22.6	
82 Ethylene Dibromide	107	9.939	9.942	-0.003	97	42016	25.0	24.0	
83 3-Chlorobenzotrifluoride	180	10.395	10.392	0.003	89	83271	25.0	27.2	
84 Chlorobenzene	112	10.425	10.429	-0.004	91	156070	25.0	26.5	
85 4-Chlorobenzotrifluoride	180	10.480	10.483	-0.003	95	77852	25.0	27.4	
86 1,1,1,2-Tetrachloroethane	131	10.523	10.520	0.003	87	37781	25.0	23.4	
87 Ethylbenzene	106	10.529	10.526	0.003	99	82647	25.0	24.9	
88 m-Xylene & p-Xylene	106	10.657	10.660	-0.003	99	105633	25.0	25.7	
89 o-Xylene	106	11.040	11.043	-0.003	98	105888	25.0	25.7	
90 Styrene	104	11.058	11.061	-0.003	94	162570	25.0	25.7	
91 Bromoform	173	11.241	11.244	-0.003	94	17870	25.0	24.8	
92 2-Chlorobenzotrifluoride	180	11.308	11.305	0.003	95	87545	25.0	27.9	
93 Isopropylbenzene	105	11.405	11.408	-0.003	97	265117	25.0	26.9	
96 1,1,2,2-Tetrachloroethane	83	11.715	11.712	0.003	94	70858	25.0	26.8	
95 Bromobenzene	156	11.721	11.725	-0.004	97	61847	25.0	24.2	
97 trans-1,4-Dichloro-2-buten	53	11.752	11.749	0.003	66	18413	25.0	22.7	
98 1,2,3-Trichloropropane	110	11.770	11.767	0.003	86	24668	25.0	25.4	
99 N-Propylbenzene	120	11.825	11.828	-0.003	99	70063	25.0	23.8	
100 2-Chlorotoluene	126	11.916	11.913	0.003	94	59338	25.0	24.3	
101 3-Chlorotoluene	126	11.977	11.980	-0.003	97	64658	25.0	25.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.007	12.010	-0.003	92	246129	25.0	25.7	
103 4-Chlorotoluene	126	12.038	12.041	-0.003	98	62837	25.0	24.3	
104 tert-Butylbenzene	119	12.323	12.321	0.002	90	180978	25.0	23.9	
106 1,2,4-Trimethylbenzene	105	12.384	12.382	0.002	97	251042	25.0	25.7	
107 1,2-dichloro-4-(trifluorom	214	12.421	12.418	0.003	95	71946	25.0	26.0	
108 sec-Butylbenzene	105	12.549	12.546	0.003	96	295586	25.0	26.2	
109 1,3-Dichlorobenzene	146	12.664	12.667	-0.003	93	128745	25.0	25.8	
110 4-Isopropyltoluene	119	12.707	12.704	0.003	96	234813	25.0	24.8	
111 1,4-Dichlorobenzene	146	12.768	12.771	-0.003	89	130776	25.0	25.6	
113 2,4-Dichloro-1-(triflourom	214	12.792	12.789	0.003	94	71623	25.0	26.0	
114 2,5-Dichlorobenzotrifluori	214	12.828	12.832	-0.004	96	76420	25.0	24.8	
116 n-Butylbenzene	91	13.114	13.112	0.002	98	236342	25.0	25.0	
117 1,2-Dichlorobenzene	146	13.120	13.124	-0.004	91	127520	25.0	25.3	
118 1,2-Dibromo-3-Chloropropan	75	13.911	13.921	-0.010	62	9971	25.0	21.6	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.063	14.061	0.002	98	345570	75.0	78.8	
121 2,3- & 3,4- Dichlorotoluen	125	14.471	14.474	-0.003	99	252992	50.0	52.3	
122 1,2,4-Trichlorobenzene	180	14.745	14.736	0.009	92	96442	25.0	24.7	
123 Hexachlorobutadiene	225	14.891	14.888	0.003	96	37440	25.0	24.3	
124 Naphthalene	128	15.006	15.004	0.002	98	178131	25.0	22.6	
125 1,2,3-Trichlorobenzene	180	15.231	15.229	0.002	95	90206	25.0	24.7	
126 2,4,5-Trichlorotoluene	159	16.004	16.007	-0.003	0	54916	25.0	22.4	
127 2,3,6-Trichlorotoluene	159	16.107	16.111	-0.004	91	50658	25.0	21.8	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		50.0	48.5	
S 131 Xylenes, Total	106				0		50.0	51.4	
S 132 1,3-Dichloropropene, Total	1				0		50.0	41.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	1.00	Units: uL	
voaWket1Reste_00001	Amount Added:	1.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	1.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	1.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	1.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	5.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

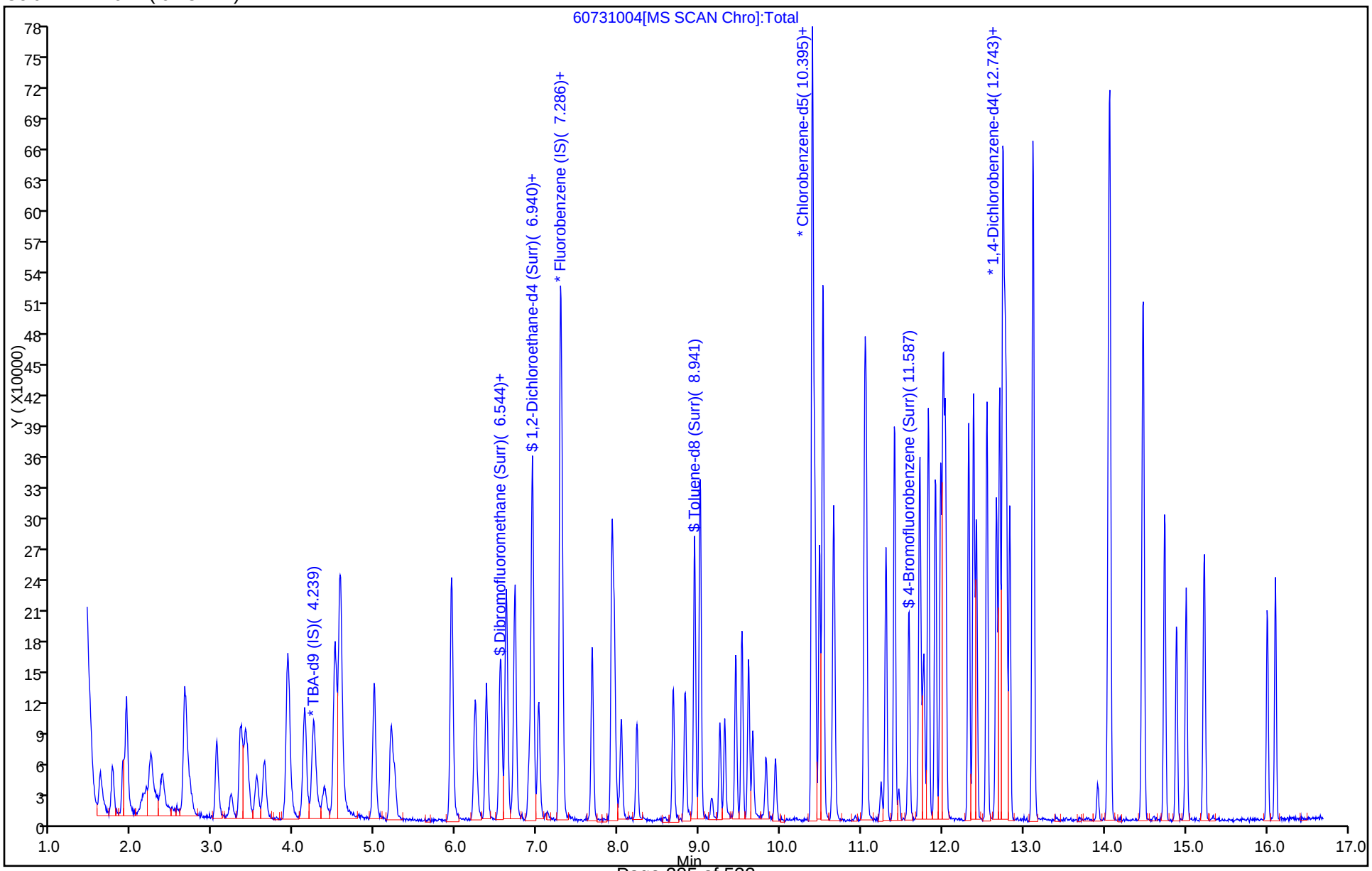
Report Date: 03-Aug-2015 12:15:35 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D

Injection Date:	31-Jul-2015 14:00:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD5			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

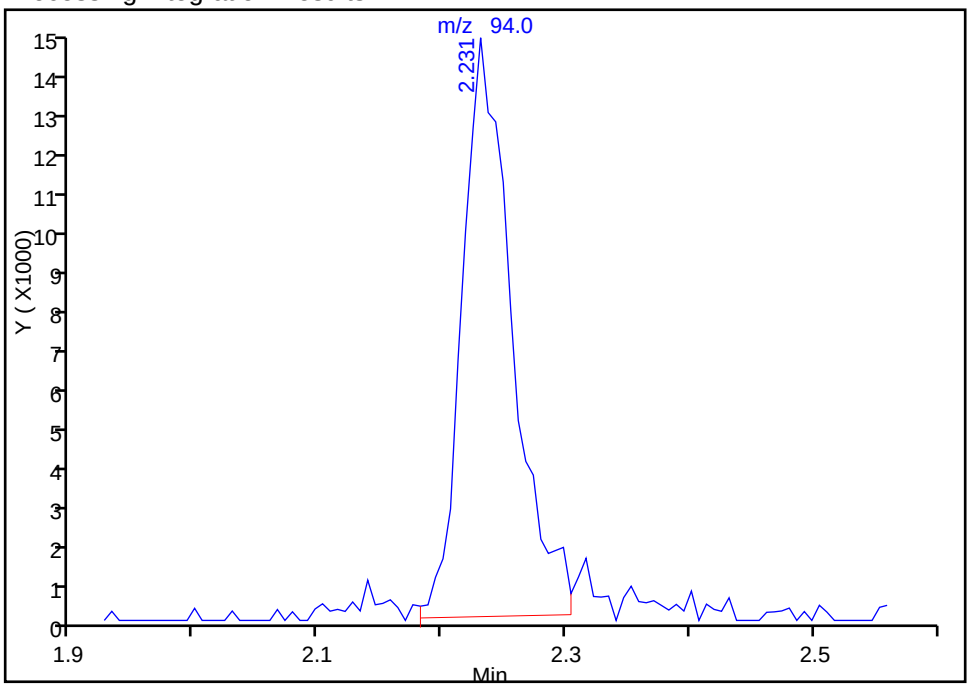
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D				
Injection Date:	31-Jul-2015 14:00:30	Instrument ID:	CHHP6		
Lims ID:	IC VSTD5				
Client ID:					
Operator ID:	001562	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

15 Bromomethane, CAS: 74-83-9

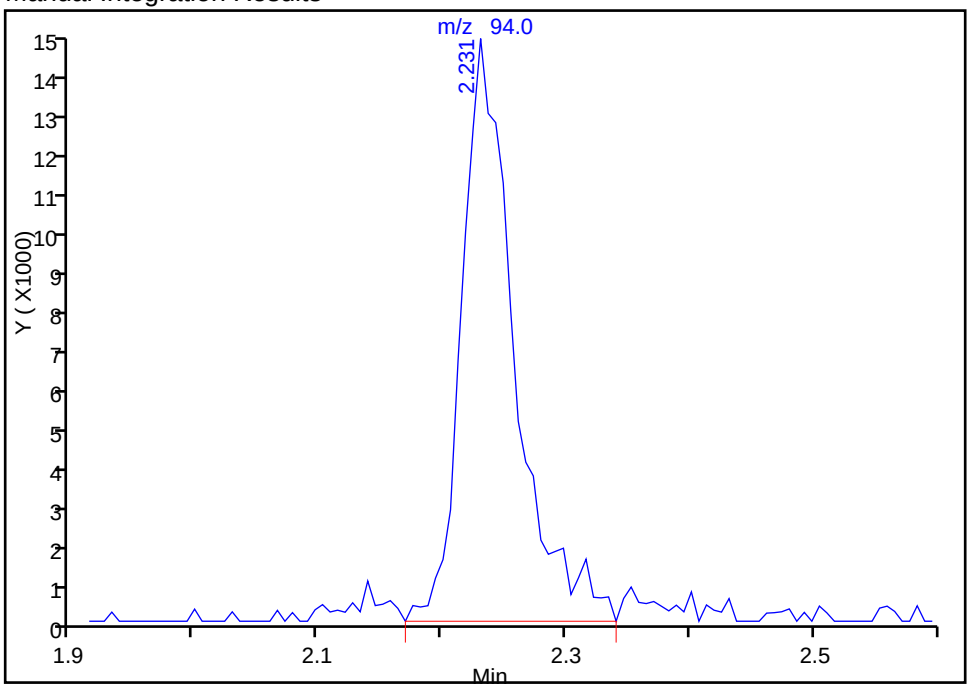
Processing Integration Results

RT: 2.23
Area: 40394
Amount: 23.319863
Amount Units: ng



Manual Integration Results

RT: 2.23
Area: 42916
Amount: 26.704234
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:46:01
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

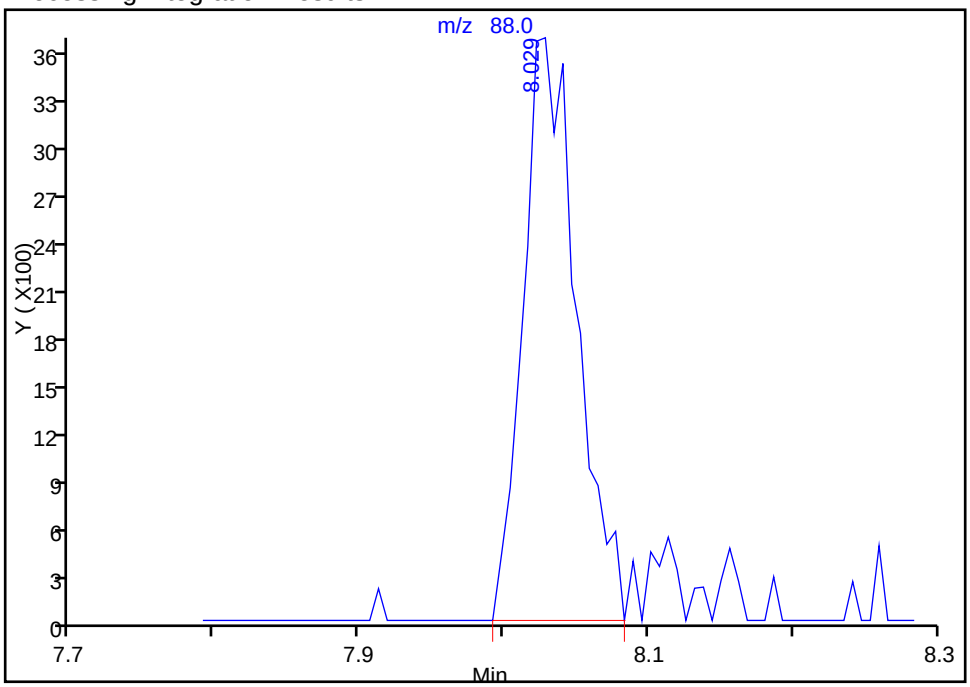
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D
Injection Date: 31-Jul-2015 14:00:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

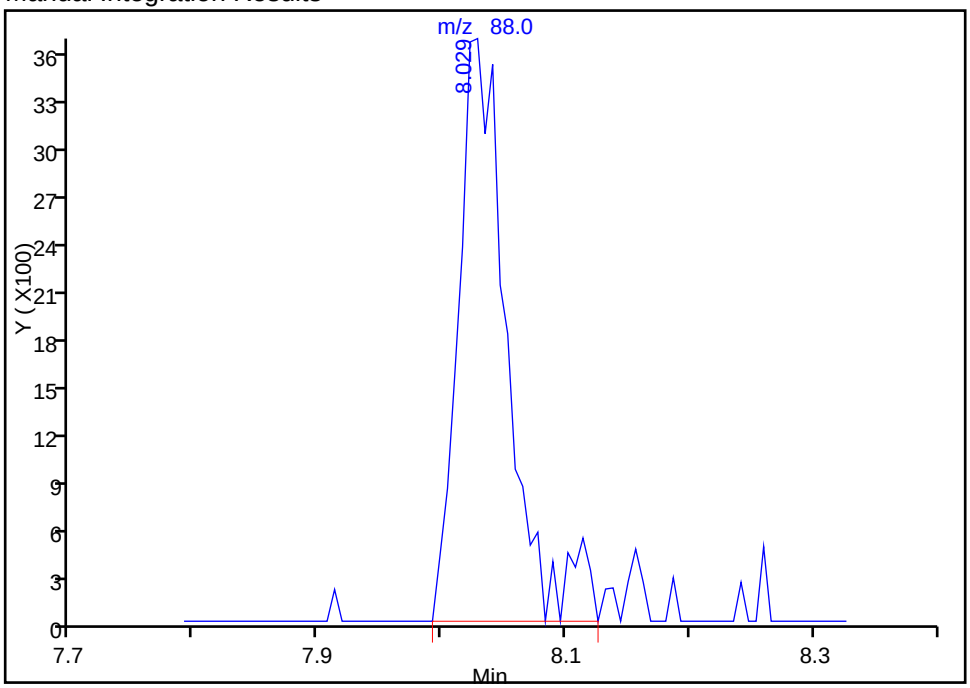
Processing Integration Results

RT: 8.03
Area: 9488
Amount: 365.3313
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 10219
Amount: 401.5715
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:46:01
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731005.D
Lims ID: ICIS VSTD10
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 31-Jul-2015 14:24:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS VSTD10
Misc. Info.: 180-0007999-005
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:56:50 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 12:15:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.248	4.248	0.000	92	161009	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.284	7.284	0.000	98	485657	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	104426	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.747	0.000	94	171006	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.554	6.554	0.000	92	110929	50.0	49.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	71	181120	50.0	50.2	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	445521	50.0	54.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.585	0.000	80	184340	50.0	50.4	
11 Dichlorodifluoromethane	85	1.608	1.608	0.000	99	166146	50.0	49.4	
12 Chloromethane	50	1.754	1.754	0.000	100	147560	50.0	50.9	
13 Vinyl chloride	62	1.888	1.888	0.000	99	154423	50.0	49.5	
14 Butadiene	39	1.930	1.930	0.000	90	146675	50.0	50.1	
15 Bromomethane	94	2.228	2.228	0.000	90	89628	50.0	53.2	
16 Chloroethane	64	2.368	2.368	0.000	99	111283	50.0	52.2	
17 Dichlorofluoromethane	67	2.648	2.648	0.000	96	250823	50.0	50.6	
18 Trichlorofluoromethane	101	2.660	2.660	0.000	73	206141	50.0	52.1	
20 Ethyl ether	59	3.049	3.049	0.000	90	136903	50.0	48.8	
21 Acrolein	56	3.220	3.220	0.000	97	43327	150.0	141.7	
22 1,1-Dichloroethene	96	3.341	3.341	0.000	96	118856	50.0	48.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.390	3.390	0.000	95	126375	50.0	49.0	
24 Acetone	43	3.421	3.421	0.000	98	76252	100.0	88.7	
25 Iodomethane	142	3.536	3.536	0.000	98	159542	50.0	48.6	
26 Carbon disulfide	76	3.627	3.627	0.000	100	294989	50.0	46.6	
29 3-Chloro-1-propene	76	3.919	3.919	0.000	61	66228	50.0	48.1	
30 Methyl acetate	43	3.926	3.926	0.000	96	497011	250.0	246.7	
31 Methylene Chloride	84	4.132	4.132	0.000	93	163213	50.0	48.0	
32 2-Methyl-2-propanol	59	4.370	4.370	0.000	93	91997	500.0	507.7	
33 Acrylonitrile	53	4.503	4.503	0.000	98	501701	500.0	494.0	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	96	139824	50.0	49.6	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	97	394698	50.0	46.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.990	0.000	93	186977	50.0	48.9	
37 1,1-Dichloroethane	63	5.197	5.197	0.000	97	251887	50.0	49.9	
38 Vinyl acetate	43	5.240	5.240	0.000	98	186047	50.0	45.6	
43 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	85	151575	50.0	49.4	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	60	108037	100.0	92.1	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	61	122189	50.0	47.8	
48 Chlorobromomethane	128	6.231	6.231	0.000	96	58005	50.0	47.1	
49 Tetrahydrofuran	42	6.249	6.249	0.000	87	70787	100.0	89.6	
50 Chloroform	83	6.371	6.371	0.000	94	250393	50.0	49.9	
51 1,1,1-Trichloroethane	97	6.541	6.541	0.000	97	182973	50.0	49.4	
52 Cyclohexane	56	6.620	6.620	0.000	93	237539	50.0	50.0	
53 Carbon tetrachloride	117	6.718	6.718	0.000	95	126096	50.0	48.2	
54 1,1-Dichloropropene	75	6.724	6.724	0.000	95	202951	50.0	50.9	
55 Isobutyl alcohol	41	6.900	6.900	0.000	88	81470	1250.0	1159.5	
56 Benzene	78	6.943	6.943	0.000	97	574901	50.0	50.8	
57 1,2-Dichloroethane	62	7.016	7.016	0.000	99	225116	50.0	49.4	
59 n-Heptane	43	7.308	7.308	0.000	88	154761	50.0	50.3	
61 Trichloroethene	130	7.679	7.679	0.000	92	113666	50.0	48.2	
63 Methylcyclohexane	83	7.922	7.922	0.000	92	240977	50.0	50.3	
64 1,2-Dichloropropane	63	7.953	7.953	0.000	87	126414	50.0	46.8	
65 1,4-Dioxane	88	8.032	8.032	0.000	44	26388	1000.0	988.7	M
67 Dibromomethane	93	8.038	8.038	0.000	94	77394	50.0	47.1	
68 Dichlorobromomethane	83	8.227	8.227	0.000	98	144075	50.0	46.7	
71 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	92	149301	50.0	44.1	
72 4-Methyl-2-pentanone (MIBK	43	8.823	8.823	0.000	96	208546	100.0	97.1	
73 Toluene	91	9.011	9.011	0.000	98	565645	50.0	52.5	
74 trans-1,3-Dichloropropene	75	9.255	9.255	0.000	95	124444	50.0	45.5	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	135064	50.0	46.5	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	94	108552	50.0	48.7	
77 Tetrachloroethene	164	9.522	9.522	0.000	93	93269	50.0	50.7	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	91	206060	50.0	50.0	
79 2-Hexanone	43	9.656	9.656	0.000	95	135329	100.0	96.0	
81 Chlorodibromomethane	129	9.826	9.826	0.000	91	73014	50.0	48.0	
82 Ethylene Dibromide	107	9.942	9.942	0.000	97	92363	50.0	46.8	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	87	177755	50.0	51.5	
84 Chlorobenzene	112	10.429	10.429	0.000	91	339330	50.0	51.2	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	164547	50.0	51.5	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	85	89710	50.0	49.4	
87 Ethylbenzene	106	10.526	10.526	0.000	99	191951	50.0	51.4	
88 m-Xylene & p-Xylene	106	10.660	10.660	0.000	99	235109	50.0	50.7	
89 o-Xylene	106	11.043	11.043	0.000	98	234926	50.0	50.6	
90 Styrene	104	11.061	11.061	0.000	94	374525	50.0	52.6	
91 Bromoform	173	11.244	11.244	0.000	92	37102	50.0	45.7	
92 2-Chlorobenzotrifluoride	180	11.305	11.305	0.000	94	179913	50.0	50.9	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	599038	50.0	54.0	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	95	147479	50.0	49.5	
95 Bromobenzene	156	11.725	11.725	0.000	96	136094	50.0	49.5	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.749	0.000	77	41001	50.0	47.0	
98 1,2,3-Trichloropropane	110	11.767	11.767	0.000	87	50085	50.0	47.9	
99 N-Propylbenzene	120	11.828	11.828	0.000	99	161671	50.0	51.1	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	133354	50.0	50.7	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	137766	50.0	49.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	95	541915	50.0	52.6	
103 4-Chlorotoluene	126	12.041	12.041	0.000	98	141377	50.0	50.9	
104 tert-Butylbenzene	119	12.321	12.321	0.000	91	415895	50.0	51.1	
106 1,2,4-Trimethylbenzene	105	12.382	12.382	0.000	99	554224	50.0	52.7	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	96	144215	50.0	48.4	
108 sec-Butylbenzene	105	12.546	12.546	0.000	96	643438	50.0	53.0	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	93	267626	50.0	49.8	
110 4-Isopropyltoluene	119	12.704	12.704	0.000	96	539941	50.0	53.0	
111 1,4-Dichlorobenzene	146	12.771	12.771	0.000	88	275229	50.0	50.1	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	95	143623	50.0	48.4	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.832	0.000	98	169006	50.0	51.0	
116 n-Butylbenzene	91	13.112	13.112	0.000	99	533401	50.0	52.4	
117 1,2-Dichlorobenzene	146	13.124	13.124	0.000	91	269873	50.0	49.8	
118 1,2-Dibromo-3-Chloropropan	75	13.915	13.921	-0.006	68	22010	50.0	44.3	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.061	14.061	0.000	98	751227	150.0	159.2	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	99	530353	100.0	101.9	
122 1,2,4-Trichlorobenzene	180	14.736	14.736	0.000	92	208112	50.0	49.5	
123 Hexachlorobutadiene	225	14.888	14.888	0.000	95	83692	50.0	50.6	
124 Naphthalene	128	15.004	15.004	0.000	99	425036	50.0	50.1	
125 1,2,3-Trichlorobenzene	180	15.229	15.229	0.000	91	189066	50.0	48.1	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	121646	50.0	46.1	
127 2,3,6-Trichlorotoluene	159	16.111	16.111	0.000	92	120523	50.0	48.1	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	99.0	
S 131 Xylenes, Total	106				0		100.0	101.4	
S 132 1,3-Dichloropropene, Total	1				0		100.0	89.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	2.00	Units: uL	
voaWket1Reste_00001	Amount Added:	2.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	2.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	2.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	2.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	6.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

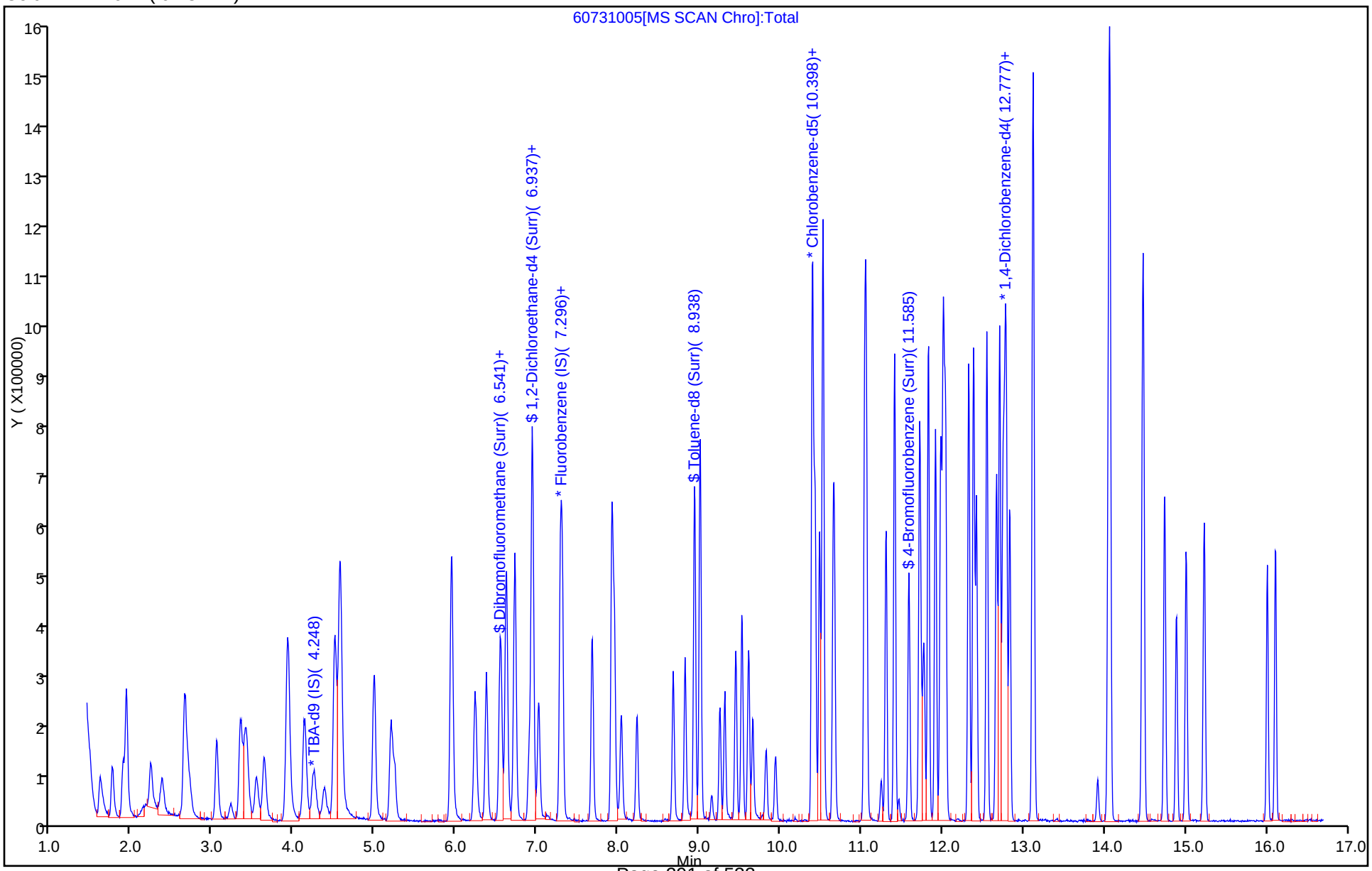
Report Date: 03-Aug-2015 12:56:52 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731005.D

Injection Date:	31-Jul-2015 14:24:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	ICIS VSTD10			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

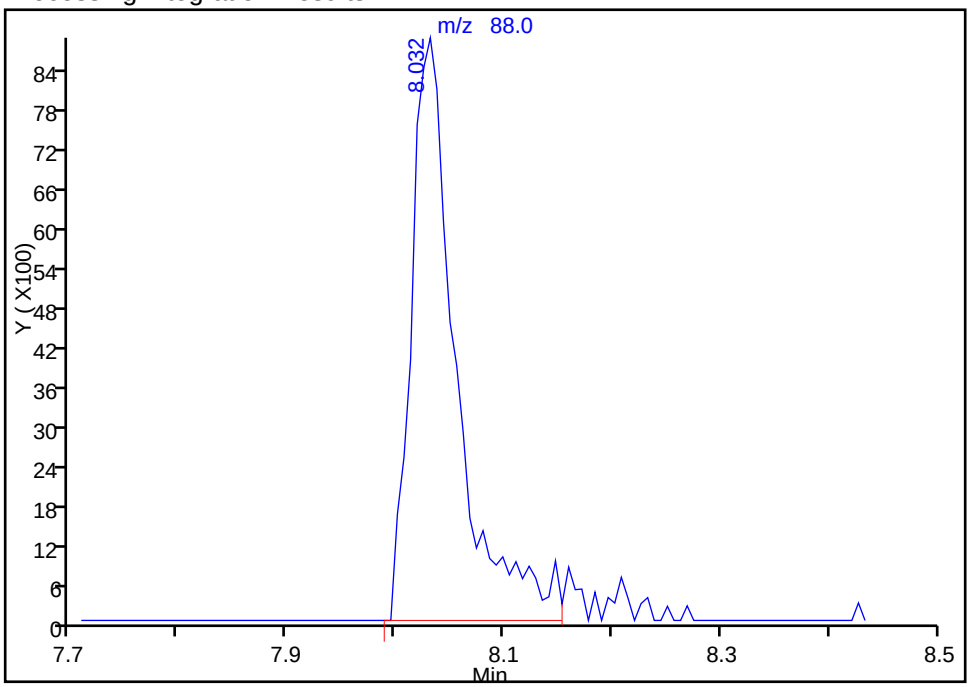
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731005.D
Injection Date: 31-Jul-2015 14:24:30 Instrument ID: CHHP6
Lims ID: ICIS VSTD10
Client ID:
Operator ID: 001562 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

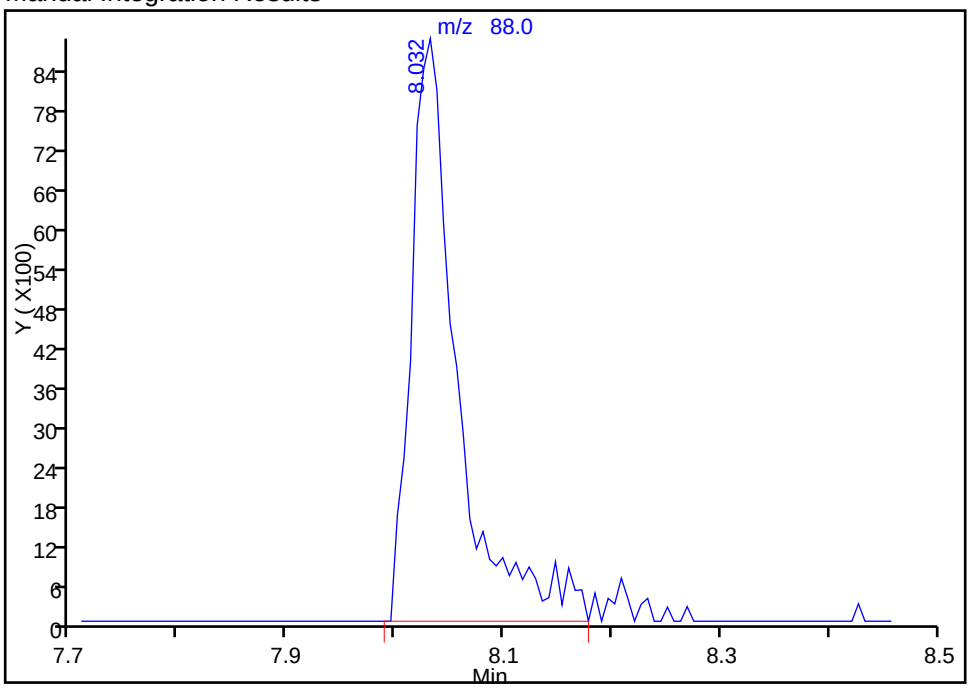
Processing Integration Results

RT: 8.03
Area: 25747
Amount: 938.6160
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 26388
Amount: 988.6792
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:47:28
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731006.D
Lims ID: IC VSTD15
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Jul-2015 14:49:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD15
Misc. Info.: 180-0007999-006
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:15:42 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 10:29:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.247	4.247	0.000	90	170149	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	471581	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	92	104570	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	95	167231	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	163209	75.0	75.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	71	260570	75.0	74.4	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	643420	75.0	78.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	80	281797	75.0	77.0	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	98	255750	75.0	78.3	
12 Chloromethane	50	1.759	1.759	0.000	99	208858	75.0	74.2	
13 Vinyl chloride	62	1.893	1.893	0.000	84	233901	75.0	77.2	
14 Butadiene	39	1.930	1.930	0.000	90	214248	75.0	75.4	
15 Bromomethane	94	2.228	2.228	0.000	89	123705	75.0	75.6	
16 Chloroethane	64	2.374	2.374	0.000	99	159781	75.0	77.2	
17 Dichlorofluoromethane	67	2.654	2.654	0.000	99	372545	75.0	77.4	
18 Trichlorofluoromethane	101	2.678	2.678	0.000	84	296881	75.0	77.3	
20 Ethyl ether	59	3.043	3.043	0.000	89	202583	75.0	74.4	
21 Acrolein	56	3.213	3.213	0.000	99	52894	175.0	178.1	
22 1,1-Dichloroethene	96	3.341	3.341	0.000	96	180424	75.0	76.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.402	3.402	0.000	96	188852	75.0	75.4	
24 Acetone	43	3.432	3.432	0.000	99	117975	150.0	141.4	
25 Iodomethane	142	3.530	3.530	0.000	99	243211	75.0	76.3	
26 Carbon disulfide	76	3.633	3.633	0.000	100	461167	75.0	75.0	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	89	98190	75.0	73.4	
30 Methyl acetate	43	3.925	3.925	0.000	97	732698	375.0	374.5	
31 Methylene Chloride	84	4.132	4.132	0.000	93	238130	75.0	74.9	
32 2-Methyl-2-propanol	59	4.369	4.369	0.000	92	141735	750.0	740.2	
33 Acrylonitrile	53	4.497	4.497	0.000	99	737397	750.0	747.7	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	71	208665	75.0	76.2	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	97	621185	75.0	75.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.990	0.000	94	278592	75.0	75.0	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	97	371113	75.0	75.7	
38 Vinyl acetate	43	5.239	5.239	0.000	98	295714	75.0	74.7	
43 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	85	223081	75.0	74.9	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	61	180292	150.0	158.3	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	61	186450	75.0	75.2	
48 Chlorobromomethane	128	6.225	6.225	0.000	97	88252	75.0	73.7	
49 Tetrahydrofuran	42	6.237	6.237	0.000	85	117489	150.0	153.2	
50 Chloroform	83	6.371	6.371	0.000	96	370042	75.0	76.0	
51 1,1,1-Trichloroethane	97	6.541	6.541	0.000	97	278390	75.0	77.4	
52 Cyclohexane	56	6.620	6.620	0.000	91	359010	75.0	77.9	
53 Carbon tetrachloride	117	6.717	6.717	0.000	97	195436	75.0	76.9	
54 1,1-Dichloropropene	75	6.730	6.730	0.000	95	301319	75.0	77.9	
55 Isobutyl alcohol	41	6.900	6.900	0.000	90	122452	1875.0	1794.8	
56 Benzene	78	6.942	6.942	0.000	97	839117	75.0	76.3	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	99	335915	75.0	75.9	
59 n-Heptane	43	7.307	7.307	0.000	88	231524	75.0	77.5	
61 Trichloroethene	130	7.679	7.679	0.000	92	177868	75.0	77.6	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	355558	75.0	76.4	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	94	199527	75.0	76.0	
65 1,4-Dioxane	88	8.031	8.031	0.000	40	36545	1500.0	1410.1	
67 Dibromomethane	93	8.037	8.037	0.000	90	121844	75.0	76.4	
68 Dichlorobromomethane	83	8.226	8.226	0.000	98	230314	75.0	76.9	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	93	254907	75.0	77.5	
72 4-Methyl-2-pentanone (MIBK	43	8.822	8.822	0.000	94	330779	150.0	153.9	
73 Toluene	91	9.011	9.011	0.000	98	847209	75.0	78.5	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	97	221914	75.0	81.0	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	231048	75.0	79.4	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	95	172158	75.0	77.1	
77 Tetrachloroethene	164	9.528	9.528	0.000	94	142949	75.0	77.7	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	92	320167	75.0	77.7	
79 2-Hexanone	43	9.656	9.656	0.000	96	219895	150.0	155.8	
81 Chlorodibromomethane	129	9.826	9.826	0.000	89	123420	75.0	81.0	
82 Ethylene Dibromide	107	9.936	9.936	0.000	97	153351	75.0	77.7	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	91	262608	75.0	76.0	
84 Chlorobenzene	112	10.428	10.428	0.000	91	513514	75.0	77.4	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	245021	75.0	76.5	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	87	138964	75.0	76.5	
87 Ethylbenzene	106	10.526	10.526	0.000	99	288675	75.0	77.2	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	99	360561	75.0	77.7	
89 o-Xylene	106	11.037	11.037	0.000	98	364838	75.0	78.5	
90 Styrene	104	11.061	11.061	0.000	94	568513	75.0	79.7	
91 Bromoform	173	11.243	11.243	0.000	93	60348	75.0	74.2	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	96	274773	75.0	77.7	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	897341	75.0	80.7	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	97	227964	75.0	76.4	
95 Bromobenzene	156	11.724	11.724	0.000	97	203181	75.0	75.6	
97 trans-1,4-Dichloro-2-buten	53	11.748	11.748	0.000	68	61474	75.0	72.1	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	86	75371	75.0	73.7	
99 N-Propylbenzene	120	11.827	11.827	0.000	99	238465	75.0	77.0	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	197431	75.0	76.8	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	203636	75.0	75.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	92	796704	75.0	79.1	
103 4-Chlorotoluene	126	12.034	12.034	0.000	99	208897	75.0	76.9	
104 tert-Butylbenzene	119	12.320	12.320	0.000	91	633351	75.0	79.6	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	99	824147	75.0	80.1	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	96	221955	75.0	76.1	
108 sec-Butylbenzene	105	12.545	12.545	0.000	96	958306	75.0	80.7	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	93	397446	75.0	75.7	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	96	804039	75.0	80.7	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	92	407678	75.0	75.9	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	95	211084	75.0	72.8	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	99	249633	75.0	77.0	
116 n-Butylbenzene	91	13.111	13.111	0.000	98	791496	75.0	79.6	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	90	400593	75.0	75.6	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	70	36339	75.0	74.7	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	98	1076776	225.0	233.3	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	98	792789	150.0	155.7	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	309817	75.0	75.4	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	96	122376	75.0	75.6	
124 Naphthalene	128	15.003	15.003	0.000	99	654694	75.0	78.9	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	93	286920	75.0	74.6	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	198517	75.0	76.9	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	93	186087	75.0	76.0	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		150.0	151.1	
S 131 Xylenes, Total	106				0		150.0	156.2	
S 132 1,3-Dichloropropene, Total	1				0		150.0	158.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260SURR_00039	Amount Added:	3.00	Units: uL	
voaWket1Reste_00001	Amount Added:	3.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	3.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	3.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	3.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	7.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

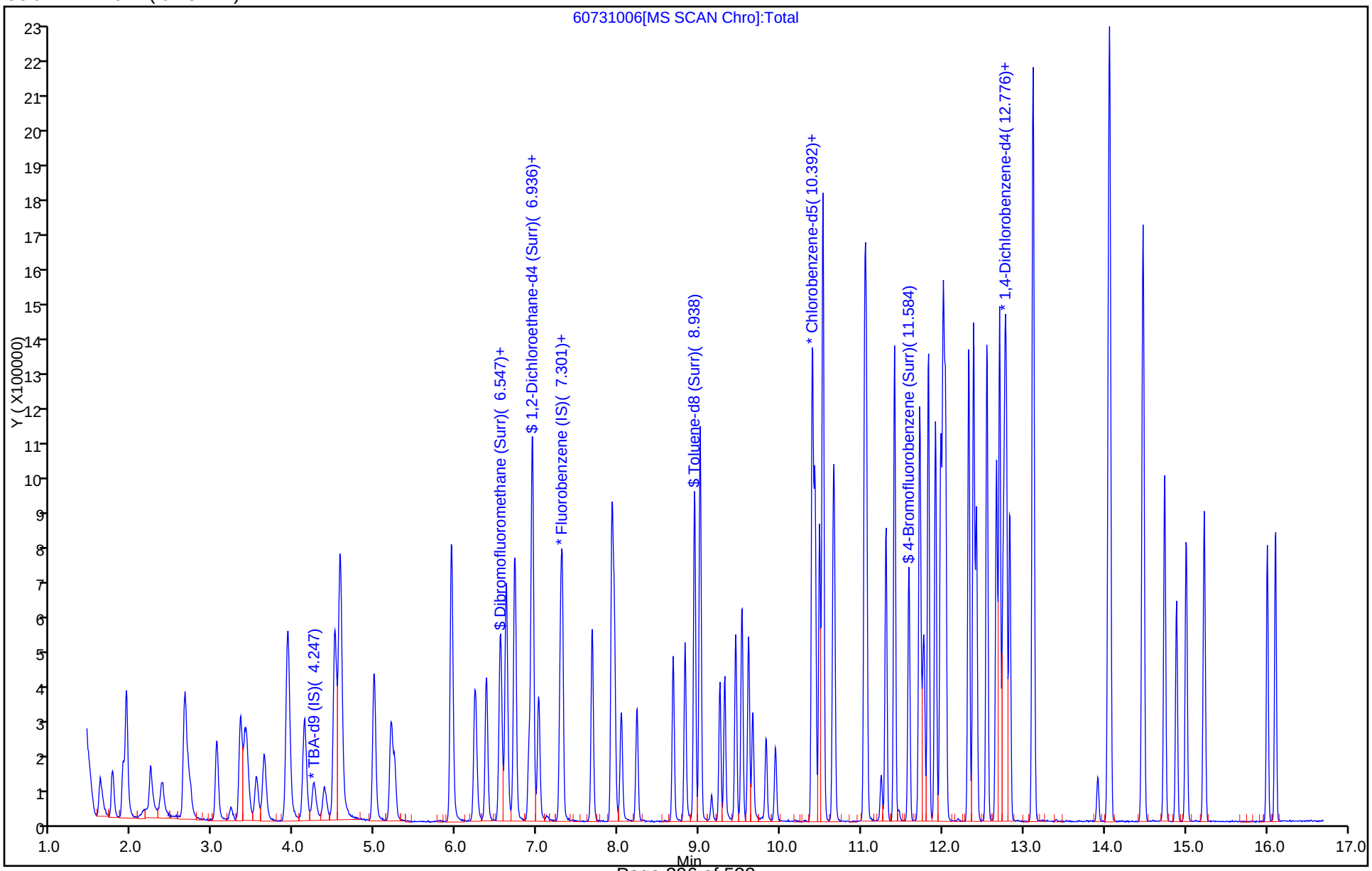
Report Date: 03-Aug-2015 12:15:44 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731006.D

Injection Date:	31-Jul-2015 14:49:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD15			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731007.D
Lims ID: IC VSTD20
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Jul-2015 15:13:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD20
Misc. Info.: 180-0007999-007
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:15:51 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 10:27:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.241	4.247	-0.006	92	168874	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.289	-0.006	98	482403	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	110045	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	94	171338	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	93	221245	100.0	99.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	70	353626	100.0	98.6	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	95	864751	100.0	99.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	81	371000	100.0	96.3	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	100	316945	100.0	94.9	
12 Chloromethane	50	1.759	1.759	0.000	99	278884	100.0	96.9	
13 Vinyl chloride	62	1.887	1.893	-0.006	99	292173	100.0	94.2	
14 Butadiene	39	1.930	1.930	0.000	90	274693	100.0	94.5	
15 Bromomethane	94	2.234	2.228	0.006	91	158589	100.0	94.7	
16 Chloroethane	64	2.368	2.374	-0.006	99	198857	100.0	93.9	
17 Dichlorofluoromethane	67	2.647	2.654	-0.007	98	463283	100.0	94.0	
18 Trichlorofluoromethane	101	2.672	2.678	-0.006	99	367084	100.0	93.4	
20 Ethyl ether	59	3.043	3.043	0.000	90	269465	100.0	96.8	
21 Acrolein	56	3.219	3.213	0.006	98	54177	200.0	178.4	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	96	234083	100.0	96.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.396	3.402	-0.006	96	241359	100.0	94.2	
24 Acetone	43	3.426	3.432	-0.006	99	166807	200.0	195.5	
25 Iodomethane	142	3.536	3.530	0.006	98	318736	100.0	97.8	
26 Carbon disulfide	76	3.633	3.633	0.000	100	618168	100.0	98.2	
29 3-Chloro-1-propene	76	3.907	3.913	-0.006	88	135273	100.0	98.8	
30 Methyl acetate	43	3.925	3.925	0.000	97	982363	500.0	490.9	
31 Methylene Chloride	84	4.132	4.132	0.000	92	313904	100.0	98.1	
32 2-Methyl-2-propanol	59	4.369	4.369	0.000	92	198055	1000.0	1042.2	
33 Acrylonitrile	53	4.503	4.497	0.006	99	994141	1000.0	985.4	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	97	267617	100.0	95.5	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	97	825760	100.0	98.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.983	4.990	-0.007	93	352983	100.0	93.0	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	97	490563	100.0	97.8	
38 Vinyl acetate	43	5.239	5.239	0.000	97	412541	100.0	101.9	
43 cis-1,2-Dichloroethene	96	5.945	5.939	0.006	85	295290	100.0	96.9	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	60	231667	200.0	198.9	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	62	250901	100.0	98.9	
48 Chlorobromomethane	128	6.231	6.225	0.006	97	118290	100.0	96.6	
49 Tetrahydrofuran	42	6.249	6.237	0.012	85	154776	200.0	197.3	
50 Chloroform	83	6.370	6.371	-0.001	96	484585	100.0	97.3	
51 1,1,1-Trichloroethane	97	6.535	6.541	-0.006	98	366376	100.0	99.6	
52 Cyclohexane	56	6.614	6.620	-0.006	92	445084	100.0	94.4	
53 Carbon tetrachloride	117	6.717	6.717	0.000	98	252588	100.0	97.2	
54 1,1-Dichloropropene	75	6.729	6.730	-0.001	94	392146	100.0	99.1	
55 Isobutyl alcohol	41	6.900	6.900	0.000	92	178080	2500.0	2551.6	
56 Benzene	78	6.942	6.942	0.000	98	1096030	100.0	97.5	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	99	440984	100.0	97.4	
59 n-Heptane	43	7.307	7.307	0.000	85	290327	100.0	95.0	
61 Trichloroethene	130	7.678	7.679	-0.001	93	230554	100.0	98.3	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	455180	100.0	95.7	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	94	267345	100.0	99.5	
65 1,4-Dioxane	88	8.031	8.031	0.000	41	54577	2000.0	2058.6	M
67 Dibromomethane	93	8.037	8.037	0.000	92	163719	100.0	100.4	
68 Dichlorobromomethane	83	8.232	8.226	0.006	99	311750	100.0	101.7	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	93	358605	100.0	106.5	
72 4-Methyl-2-pentanone (MIBK	43	8.822	8.822	0.000	95	452681	200.0	200.1	
73 Toluene	91	9.011	9.011	0.000	98	1104648	100.0	97.3	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	97	303226	100.0	105.2	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	326852	100.0	106.8	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	95	224945	100.0	95.8	
77 Tetrachloroethene	164	9.528	9.528	0.000	94	183568	100.0	94.8	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	92	425660	100.0	98.1	
79 2-Hexanone	43	9.656	9.656	0.000	95	302805	200.0	203.8	
81 Chlorodibromomethane	129	9.826	9.826	0.000	90	163175	100.0	101.8	
82 Ethylene Dibromide	107	9.941	9.936	0.005	96	211303	100.0	101.7	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	91	340769	100.0	93.7	
84 Chlorobenzene	112	10.428	10.428	0.000	91	676590	100.0	96.9	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	315960	100.0	93.8	
86 1,1,1,2-Tetrachloroethane	131	10.525	10.520	0.005	88	192497	100.0	100.6	
87 Ethylbenzene	106	10.525	10.526	-0.001	99	383099	100.0	97.3	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	100	480587	100.0	98.4	
89 o-Xylene	106	11.036	11.037	-0.001	98	484093	100.0	99.0	
90 Styrene	104	11.061	11.061	0.000	94	752806	100.0	100.3	
91 Bromoform	173	11.243	11.243	0.000	93	85498	100.0	99.9	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	93	350232	100.0	94.1	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	1146617	100.0	98.0	
96 1,1,2,2-Tetrachloroethane	83	11.718	11.712	0.006	96	304710	100.0	97.0	
95 Bromobenzene	156	11.724	11.724	0.000	97	276525	100.0	100.4	
97 trans-1,4-Dichloro-2-buten	53	11.748	11.748	0.000	80	87362	100.0	100.0	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	86	102213	100.0	97.6	
99 N-Propylbenzene	120	11.827	11.827	0.000	98	317924	100.0	100.2	
100 2-Chlorotoluene	126	11.913	11.913	-0.001	93	265955	100.0	101.0	
101 3-Chlorotoluene	126	11.979	11.980	-0.001	97	282386	100.0	102.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	94	1031152	100.0	100.0	
103 4-Chlorotoluene	126	12.034	12.034	0.000	100	278435	100.0	100.1	
104 tert-Butylbenzene	119	12.326	12.320	0.006	91	820194	100.0	100.6	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	99	1075766	100.0	102.0	
107 1,2-dichloro-4-(trifluorom	214	12.417	12.418	-0.001	95	280215	100.0	93.8	
108 sec-Butylbenzene	105	12.545	12.545	0.000	97	1226548	100.0	100.8	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	93	528372	100.0	98.2	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	95	1043904	100.0	102.3	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	90	543357	100.0	98.8	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	97	297534	100.0	100.1	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	98	301973	100.0	91.0	
116 n-Butylbenzene	91	13.111	13.111	0.000	97	1018212	100.0	99.9	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	92	525918	100.0	96.8	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	68	49062	100.0	98.5	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	98	1401616	300.0	296.5	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	98	1039069	200.0	199.2	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	415442	100.0	98.7	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	97	161228	100.0	97.2	
124 Naphthalene	128	15.003	15.003	0.000	99	876449	100.0	103.2	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	92	385220	100.0	97.8	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	266093	100.0	100.6	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	93	248497	100.0	99.0	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		200.0	192.4	
S 131 Xylenes, Total	106				0		200.0	197.4	
S 132 1,3-Dichloropropene, Total	1				0		200.0	211.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	4.00	Units: uL	
voaWket1Reste_00001	Amount Added:	4.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	4.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	4.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	4.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	8.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

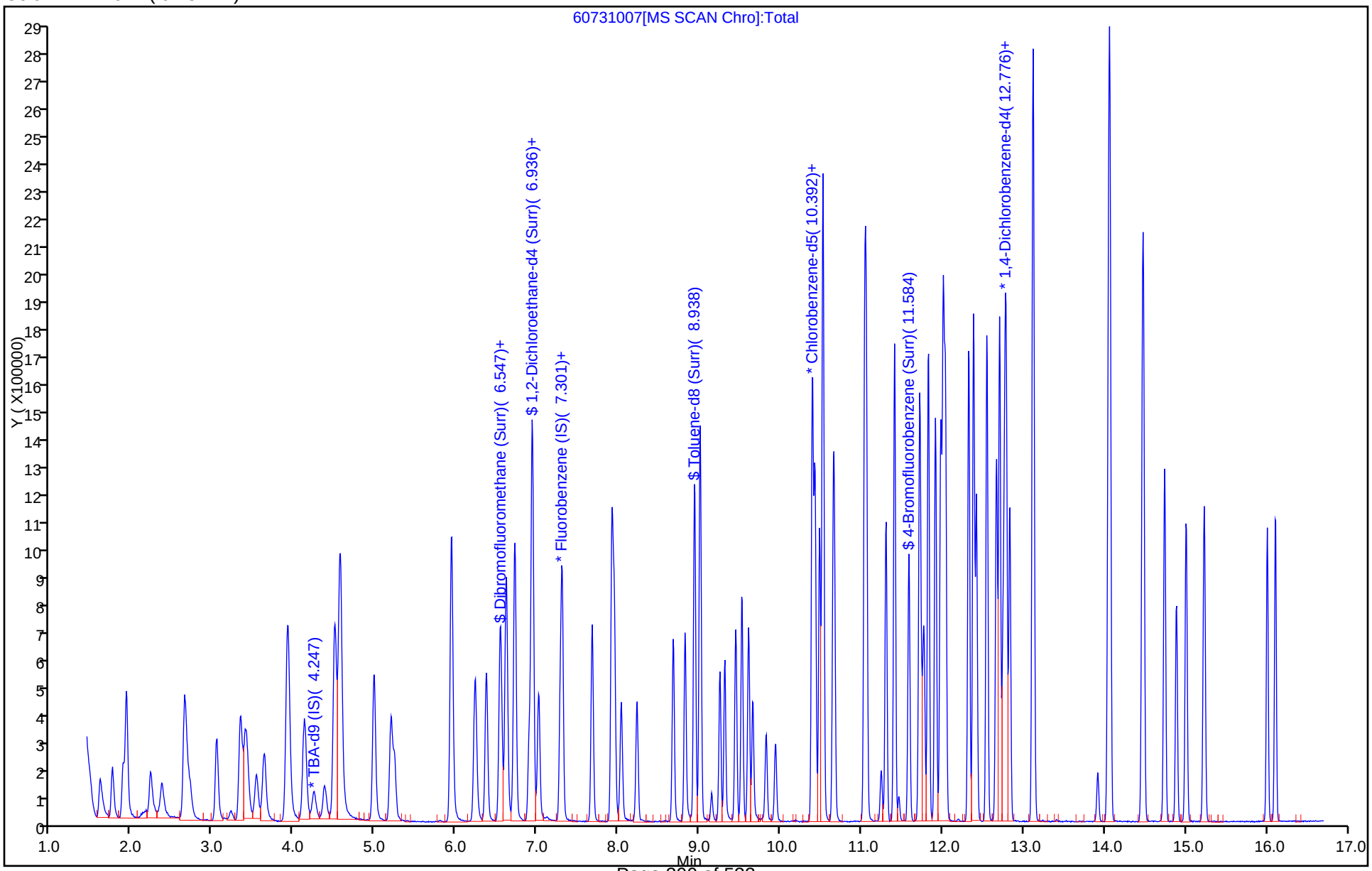
Report Date: 03-Aug-2015 12:15:52 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731007.D

Injection Date:	31-Jul-2015 15:13:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD20			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

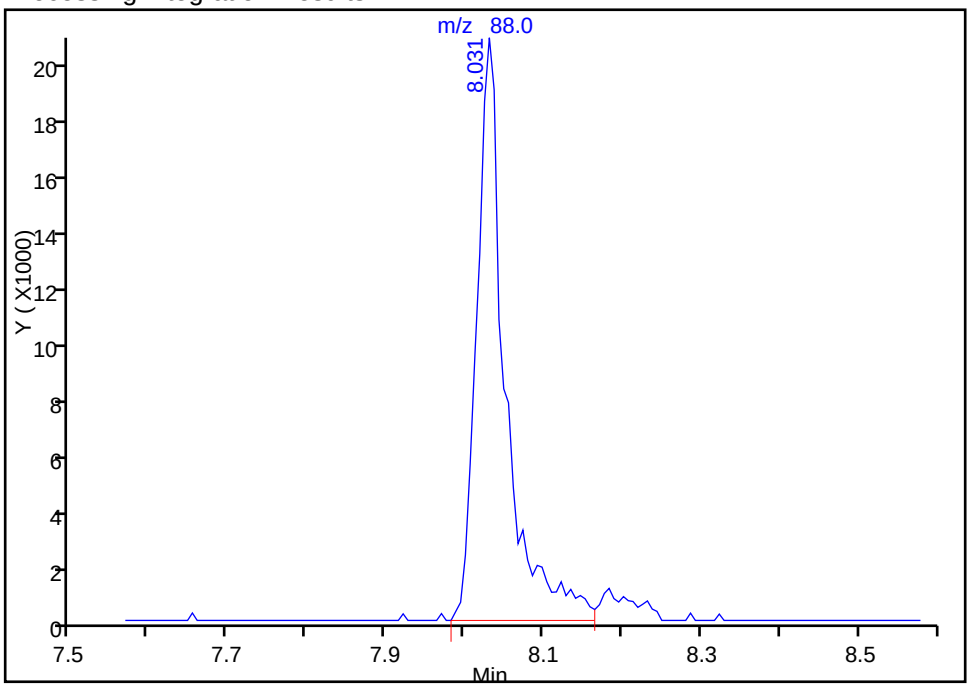
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731007.D
Injection Date: 31-Jul-2015 15:13:30 Instrument ID: CHHP6
Lims ID: IC VSTD20
Client ID:
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

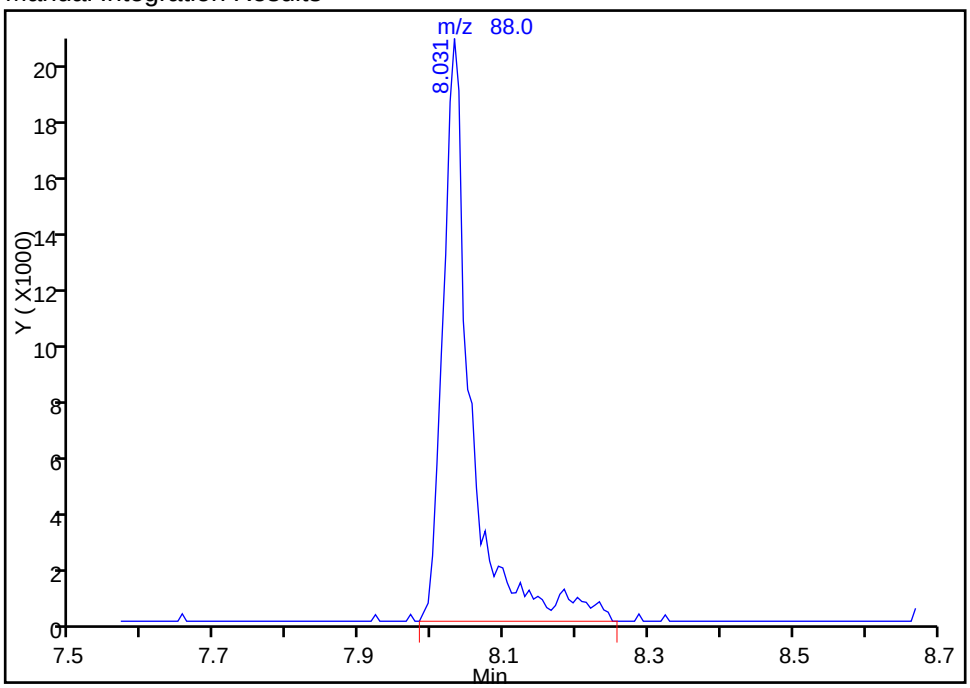
Processing Integration Results

RT: 8.03
Area: 51451
Amount: 1915.4354
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 54577
Amount: 2058.6297
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:27:52
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731008.D
Lims ID: IC VSTD35
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-Jul-2015 15:37:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD35
Misc. Info.: 180-0007999-008
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:16:01 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 31-Jul-2015 16:23:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.254	4.247	0.007	92	191694	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.289	-0.006	98	474812	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	108350	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	96	164628	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	378487	175.0	173.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.930	0.001	71	595019	175.0	168.6	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	1415164	175.0	165.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	80	645419	175.0	170.1	
11 Dichlorodifluoromethane	85	1.601	1.607	-0.006	99	575043	175.0	174.9	
12 Chloromethane	50	1.754	1.759	-0.005	99	470953	175.0	166.2	
13 Vinyl chloride	62	1.887	1.893	-0.006	99	517410	175.0	169.5	
14 Butadiene	39	1.924	1.930	-0.006	90	483297	175.0	168.9	
15 Bromomethane	94	2.222	2.228	-0.006	90	248522	175.0	150.8	
16 Chloroethane	64	2.356	2.374	-0.018	99	359701	175.0	172.7	
17 Dichlorofluoromethane	67	2.642	2.654	-0.012	97	819476	175.0	169.0	
18 Trichlorofluoromethane	101	2.654	2.678	-0.024	76	664854	175.0	171.9	
20 Ethyl ether	59	3.043	3.043	0.000	89	458021	175.0	167.1	
21 Acrolein	56	3.220	3.213	0.007	99	68050	225.0	227.6	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	96	411177	175.0	172.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.390	3.402	-0.012	95	446711	175.0	177.0	
24 Acetone	43	3.426	3.432	-0.006	100	284563	350.0	338.8	
25 Iodomethane	142	3.536	3.530	0.006	99	566533	175.0	176.6	
26 Carbon disulfide	76	3.627	3.633	-0.006	100	1151644	175.0	185.9	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	89	257112	175.0	190.8	
30 Methyl acetate	43	3.925	3.925	0.000	96	1680300	875.0	853.1	
31 Methylene Chloride	84	4.132	4.132	0.000	91	527474	175.0	171.5	
32 2-Methyl-2-propanol	59	4.382	4.369	0.013	93	354063	1750.0	1641.3	
33 Acrylonitrile	53	4.503	4.497	0.006	98	1745686	1750.0	1758.1	
34 trans-1,2-Dichloroethene	96	4.558	4.564	-0.006	98	479327	175.0	173.8	
35 Methyl tert-butyl ether	73	4.570	4.576	-0.006	97	1455878	175.0	176.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	92	669795	175.0	179.2	
37 1,1-Dichloroethane	63	5.191	5.196	-0.005	97	861981	175.0	174.6	
38 Vinyl acetate	43	5.239	5.239	0.000	97	744628	175.0	186.8	
43 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	87	520777	175.0	173.6	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	87	412307	350.0	359.6	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	79	484574	175.0	194.1	
48 Chlorobromomethane	128	6.231	6.225	0.006	97	209995	175.0	174.3	
49 Tetrahydrofuran	42	6.249	6.237	0.012	86	277489	350.0	359.4	
50 Chloroform	83	6.371	6.371	0.000	94	847765	175.0	173.0	
51 1,1,1-Trichloroethane	97	6.535	6.541	-0.006	97	659562	175.0	182.1	
52 Cyclohexane	56	6.614	6.620	-0.006	92	834057	175.0	179.7	
53 Carbon tetrachloride	117	6.718	6.717	0.001	97	479558	175.0	187.5	
54 1,1-Dichloropropene	75	6.724	6.730	-0.006	95	675711	175.0	173.5	
55 Isobutyl alcohol	41	6.900	6.900	0.000	89	326401	4375.0	4751.5	
56 Benzene	78	6.943	6.942	0.001	98	1836424	175.0	166.0	
57 1,2-Dichloroethane	62	7.016	7.015	0.001	98	746328	175.0	167.4	
59 n-Heptane	43	7.308	7.307	0.001	86	526126	175.0	174.9	
61 Trichloroethene	130	7.679	7.679	0.000	93	405251	175.0	175.6	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	834543	175.0	178.2	
64 1,2-Dichloropropane	63	7.953	7.952	0.001	86	455391	175.0	172.3	
65 1,4-Dioxane	88	8.032	8.031	0.001	47	98136	3500.0	3760.8	M
67 Dibromomethane	93	8.038	8.037	0.001	92	283101	175.0	176.4	
68 Dichlorobromomethane	83	8.226	8.226	0.000	98	551929	175.0	183.0	
71 cis-1,3-Dichloropropene	75	8.677	8.676	0.001	93	650196	175.0	196.2	
72 4-Methyl-2-pentanone (MIBK	43	8.823	8.822	0.001	93	808342	350.0	362.9	
73 Toluene	91	9.011	9.011	0.000	98	1802740	175.0	161.2	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	96	565592	175.0	199.3	
75 Ethyl methacrylate	69	9.315	9.315	0.000	87	580427	175.0	192.5	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	94	391776	175.0	169.4	
77 Tetrachloroethene	164	9.528	9.528	0.000	95	319955	175.0	167.8	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	93	717566	175.0	168.0	
79 2-Hexanone	43	9.656	9.656	0.000	94	534519	350.0	365.4	
81 Chlorodibromomethane	129	9.820	9.826	-0.006	90	301710	175.0	191.2	
82 Ethylene Dibromide	107	9.936	9.936	0.000	97	363449	175.0	177.6	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	92	600793	175.0	167.8	
84 Chlorobenzene	112	10.429	10.428	0.001	89	1142353	175.0	166.2	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	570403	175.0	171.9	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	89	349368	175.0	185.5	
87 Ethylbenzene	106	10.526	10.526	0.000	98	663577	175.0	171.2	
88 m-Xylene & p-Xylene	106	10.660	10.659	0.001	99	823294	175.0	171.1	
89 o-Xylene	106	11.037	11.037	0.000	96	833629	175.0	173.2	
90 Styrene	104	11.061	11.061	0.000	92	1289309	175.0	174.4	
91 Bromoform	173	11.244	11.243	0.001	93	160966	175.0	191.1	
92 2-Chlorobenzotrifluoride	180	11.305	11.304	0.001	94	628216	175.0	171.3	
93 Isopropylbenzene	105	11.408	11.408	0.000	99	1921153	175.0	166.8	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	96	532593	175.0	172.2	
95 Bromobenzene	156	11.724	11.724	0.000	98	459843	175.0	173.7	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.748	0.001	80	160304	175.0	191.0	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	84	178317	175.0	177.2	
99 N-Propylbenzene	120	11.828	11.827	0.001	98	554932	175.0	182.1	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	446590	175.0	176.5	
101 3-Chlorotoluene	126	11.980	11.980	0.000	96	485130	175.0	182.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	93	1730016	175.0	174.6	
103 4-Chlorotoluene	126	12.041	12.034	0.007	100	464650	175.0	173.8	
104 tert-Butylbenzene	119	12.327	12.320	0.007	90	1405341	175.0	179.5	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	98	1786151	175.0	176.3	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	95	509173	175.0	177.4	
108 sec-Butylbenzene	105	12.546	12.545	0.001	97	2038837	175.0	174.4	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	92	886632	175.0	171.5	
110 4-Isopropyltoluene	119	12.704	12.703	0.001	94	1736569	175.0	177.1	
111 1,4-Dichlorobenzene	146	12.771	12.770	0.001	92	902441	175.0	170.8	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	94	534909	175.0	187.3	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.831	0.001	96	537191	175.0	168.4	
116 n-Butylbenzene	91	13.111	13.111	0.000	97	1734264	175.0	177.1	
117 1,2-Dichlorobenzene	146	13.124	13.123	0.001	89	899668	175.0	172.4	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	71	96376	175.0	201.4	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	95	2390336	525.0	526.2	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	97	1797097	350.0	358.5	
122 1,2,4-Trichlorobenzene	180	14.742	14.741	0.001	92	726756	175.0	179.7	
123 Hexachlorobutadiene	225	14.888	14.887	0.001	97	290426	175.0	182.3	
124 Naphthalene	128	15.003	15.003	0.000	99	1550041	175.0	189.9	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	93	673533	175.0	178.0	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	490754	175.0	193.1	
127 2,3,6-Trichlorotoluene	159	16.111	16.110	0.000	94	460224	175.0	190.9	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		350.0	347.4	
S 131 Xylenes, Total	106				0		350.0	344.3	
S 132 1,3-Dichloropropene, Total	1				0		350.0	395.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	7.00	Units: uL	
voaWket1Reste_00001	Amount Added:	7.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	7.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	7.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	7.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	9.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

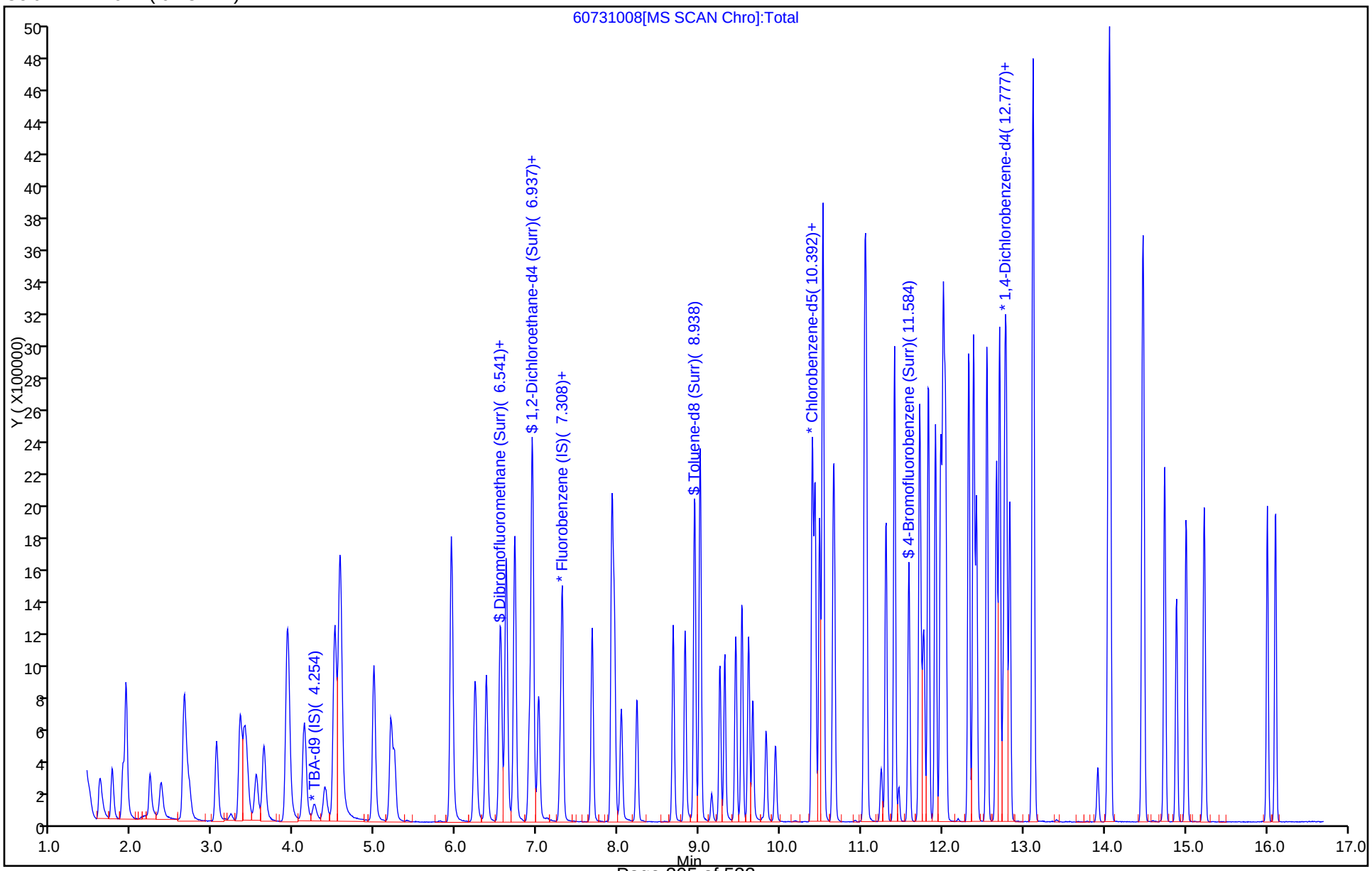
Report Date: 03-Aug-2015 12:16:03 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731008.D

Injection Date:	31-Jul-2015 15:37:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD35			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

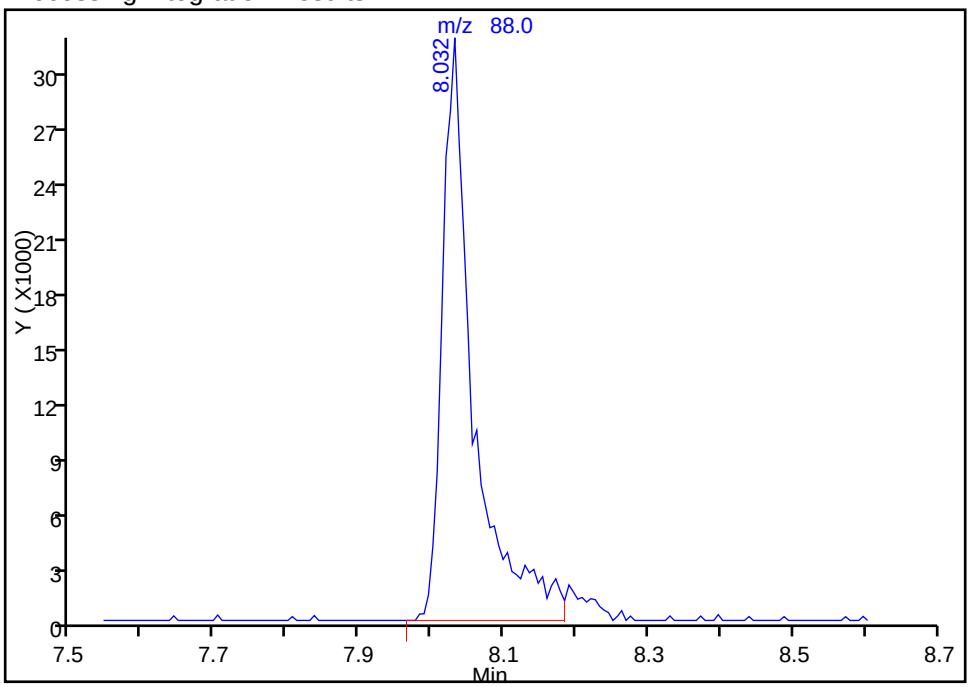
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731008.D				
Injection Date:	31-Jul-2015 15:37:30	Instrument ID:	CHHP6		
Lims ID:	IC VSTD35				
Client ID:					
Operator ID:	001562	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

65 1,4-Dioxane, CAS: 123-91-1

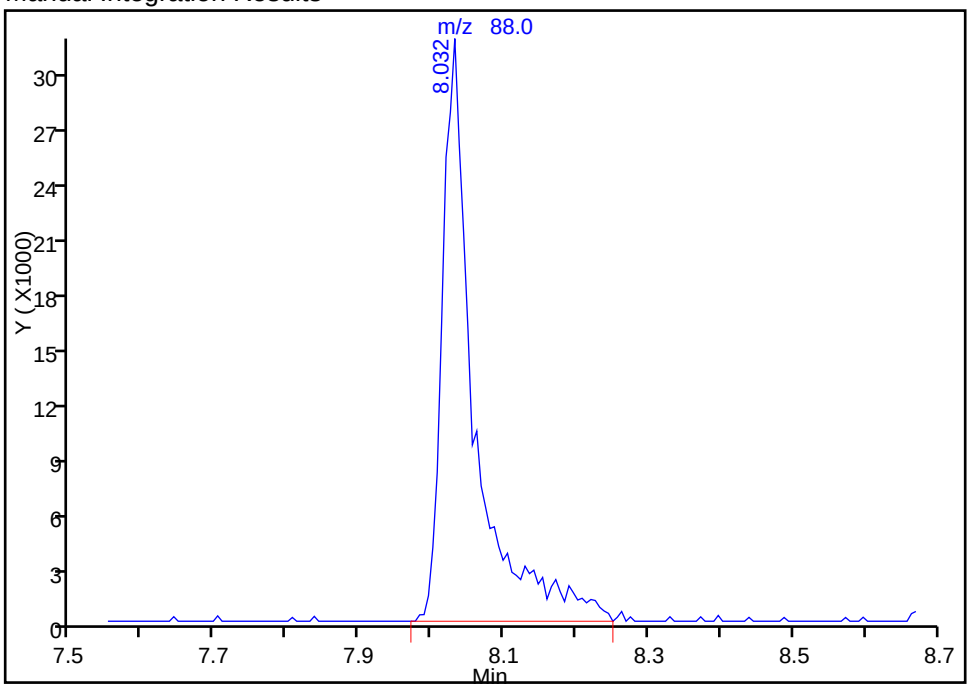
Processing Integration Results

RT: 8.03
Area: 94184
Amount: 3581.4908
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 98136
Amount: 3760.8433
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:13:21
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731009.D
Lims ID: IC VSTD40
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 31-Jul-2015 16:01:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD40
Misc. Info.: 180-0007999-009
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:16:10 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 10:06:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.253	4.247	0.006	92	190170	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	446456	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	89	103508	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	95	159598	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	428779	200.0	208.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	72	668015	200.0	201.4	
$ 7 Toluene-d8 (Surr)	98	8.944	8.938	0.006	94	1563368	200.0	191.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	81	722308	200.0	199.3	
11 Dichlorodifluoromethane	85	1.613	1.607	0.006	99	636192	200.0	205.8	
12 Chloromethane	50	1.759	1.759	0.000	99	522516	200.0	196.1	
13 Vinyl chloride	62	1.893	1.893	0.000	98	585198	200.0	203.9	
14 Butadiene	39	1.935	1.930	0.005	92	538199	200.0	200.0	
15 Bromomethane	94	2.233	2.228	0.005	91	263364	200.0	170.0	
16 Chloroethane	64	2.373	2.374	-0.001	99	402907	200.0	205.7	
17 Dichlorofluoromethane	67	2.647	2.654	-0.007	98	899692	200.0	197.3	
18 Trichlorofluoromethane	101	2.672	2.678	-0.006	99	726249	200.0	199.7	
20 Ethyl ether	59	3.049	3.043	0.006	89	523507	200.0	203.1	
21 Acrolein	56	3.225	3.213	0.012	96	76429	250.0	271.9	
22 1,1-Dichloroethene	96	3.341	3.341	0.000	99	476887	200.0	212.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.395	3.402	-0.007	95	481169	200.0	202.8	
24 Acetone	43	3.432	3.432	0.000	100	317270	400.0	401.7	
25 Iodomethane	142	3.529	3.530	-0.001	99	655616	200.0	217.3	
26 Carbon disulfide	76	3.627	3.633	-0.006	100	1330649	200.0	228.5	
29 3-Chloro-1-propene	76	3.906	3.913	-0.007	88	293887	200.0	231.9	
30 Methyl acetate	43	3.925	3.925	0.000	96	1914014	1000.0	1033.4	
31 Methylene Chloride	84	4.125	4.132	-0.007	91	611401	200.0	212.7	
32 2-Methyl-2-propanol	59	4.381	4.369	0.012	93	426462	2000.0	1992.8	
33 Acrylonitrile	53	4.503	4.497	0.006	97	1961872	2000.0	2101.3	
34 trans-1,2-Dichloroethene	96	4.563	4.564	-0.001	97	548086	200.0	211.3	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	98	1687770	200.0	217.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.990	-0.001	91	736641	200.0	209.6	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	97	980644	200.0	211.2	
38 Vinyl acetate	43	5.239	5.239	0.000	97	867464	200.0	231.4	
43 cis-1,2-Dichloroethene	96	5.944	5.939	0.005	85	595718	200.0	211.2	
44 2-Butanone (MEK)	43	5.944	5.945	-0.001	98	470276	400.0	436.3	
42 2,2-Dichloropropane	77	5.944	5.945	-0.001	66	535345	200.0	228.0	
48 Chlorobromomethane	128	6.230	6.225	0.005	97	240962	200.0	212.7	
49 Tetrahydrofuran	42	6.243	6.237	0.005	83	305718	400.0	421.1	
50 Chloroform	83	6.376	6.371	0.005	94	959266	200.0	208.2	
51 1,1,1-Trichloroethane	97	6.541	6.541	0.000	98	756837	200.0	222.3	
52 Cyclohexane	56	6.620	6.620	0.000	92	919827	200.0	210.8	
53 Carbon tetrachloride	117	6.717	6.717	0.000	97	536127	200.0	222.9	
54 1,1-Dichloropropene	75	6.729	6.730	-0.001	94	765806	200.0	209.1	
55 Isobutyl alcohol	41	6.906	6.900	0.006	92	375937	5000.0	5820.2	
56 Benzene	78	6.942	6.942	0.000	99	2066671	200.0	198.6	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	98	855052	200.0	204.0	
59 n-Heptane	43	7.307	7.307	0.000	87	588643	200.0	208.1	
61 Trichloroethene	130	7.678	7.679	-0.001	92	460676	200.0	212.3	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	915285	200.0	207.8	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	84	521174	200.0	209.7	
65 1,4-Dioxane	88	8.031	8.031	0.000	44	114196	4000.0	4654.3	M
67 Dibromomethane	93	8.037	8.037	0.000	92	323060	200.0	214.0	
68 Dichlorobromomethane	83	8.232	8.226	0.006	99	646107	200.0	227.8	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	94	745866	200.0	239.4	
72 4-Methyl-2-pentanone (MIBK	43	8.822	8.822	0.000	93	947711	400.0	445.4	
73 Toluene	91	9.010	9.011	-0.001	97	2002822	200.0	187.5	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	96	639831	200.0	236.0	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	671187	200.0	233.1	
76 1,1,2-Trichloroethane	97	9.448	9.449	-0.001	94	447467	200.0	202.6	
77 Tetrachloroethene	164	9.528	9.528	0.000	93	357911	200.0	196.5	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	93	805963	200.0	197.5	
79 2-Hexanone	43	9.655	9.656	-0.001	95	604727	400.0	432.8	
81 Chlorodibromomethane	129	9.826	9.826	0.000	91	351983	200.0	233.5	
82 Ethylene Dibromide	107	9.941	9.936	0.005	98	414395	200.0	212.0	
83 3-Chlorobenzotrifluoride	180	10.398	10.392	0.006	93	658293	200.0	192.5	
84 Chlorobenzene	112	10.428	10.428	0.000	90	1270819	200.0	193.6	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	626628	200.0	197.7	
86 1,1,1,2-Tetrachloroethane	131	10.519	10.520	-0.001	90	410261	200.0	228.0	
87 Ethylbenzene	106	10.525	10.526	-0.001	98	745552	200.0	201.3	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	99	922542	200.0	200.7	
89 o-Xylene	106	11.042	11.037	0.005	96	942660	200.0	205.0	
90 Styrene	104	11.061	11.061	0.000	91	1451301	200.0	205.5	
91 Bromoform	173	11.243	11.243	0.000	93	188413	200.0	234.1	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	94	695569	200.0	198.6	
93 Isopropylbenzene	105	11.407	11.408	-0.001	99	2143689	200.0	194.9	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	97	595171	200.0	201.4	
95 Bromobenzene	156	11.724	11.724	0.000	98	533334	200.0	207.9	
97 trans-1,4-Dichloro-2-buten	53	11.754	11.748	0.006	78	183338	200.0	225.3	
98 1,2,3-Trichloropropane	110	11.772	11.773	-0.001	84	202262	200.0	207.3	
99 N-Propylbenzene	120	11.827	11.827	0.000	98	613443	200.0	207.6	
100 2-Chlorotoluene	126	11.912	11.913	-0.001	93	510216	200.0	208.0	
101 3-Chlorotoluene	126	11.979	11.980	-0.001	97	532252	200.0	206.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	94	1945327	200.0	202.5	
103 4-Chlorotoluene	126	12.040	12.034	0.006	100	540303	200.0	208.5	
104 tert-Butylbenzene	119	12.326	12.320	0.006	90	1580824	200.0	208.2	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	98	2003823	200.0	204.0	
107 1,2-dichloro-4-(trifluorom	214	12.423	12.418	0.005	96	562570	200.0	202.1	
108 sec-Butylbenzene	105	12.551	12.545	0.006	97	2257148	200.0	199.2	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	92	1017363	200.0	203.0	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	94	1952987	200.0	205.4	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	91	1040432	200.0	203.1	
113 2,4-Dichloro-1-(triflourom	214	12.788	12.789	-0.001	93	585295	200.0	211.4	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	97	604585	200.0	195.5	
116 n-Butylbenzene	91	13.111	13.111	0.000	96	1931969	200.0	203.5	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	93	1013269	200.0	200.2	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	74	111156	200.0	239.6	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	95	2621988	600.0	595.4	
121 2,3- & 3,4- Dichlorotoluen	125	14.473	14.474	-0.001	96	1989024	400.0	409.3	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	829845	200.0	211.6	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	97	324236	200.0	209.9	
124 Naphthalene	128	15.009	15.003	0.006	99	1744010	200.0	220.4	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	92	768952	200.0	209.6	
126 2,4,5-Trichlorotoluene	159	16.006	16.007	-0.001	0	568870	200.0	230.9	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	94	527070	200.0	225.5	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		400.0	422.6	
S 131 Xylenes, Total	106				0		400.0	405.8	
S 132 1,3-Dichloropropene, Total	1				0		400.0	475.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	8.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	10.00	Units: uL	
voaWket1Reste_00001	Amount Added:	8.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	8.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	8.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	8.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

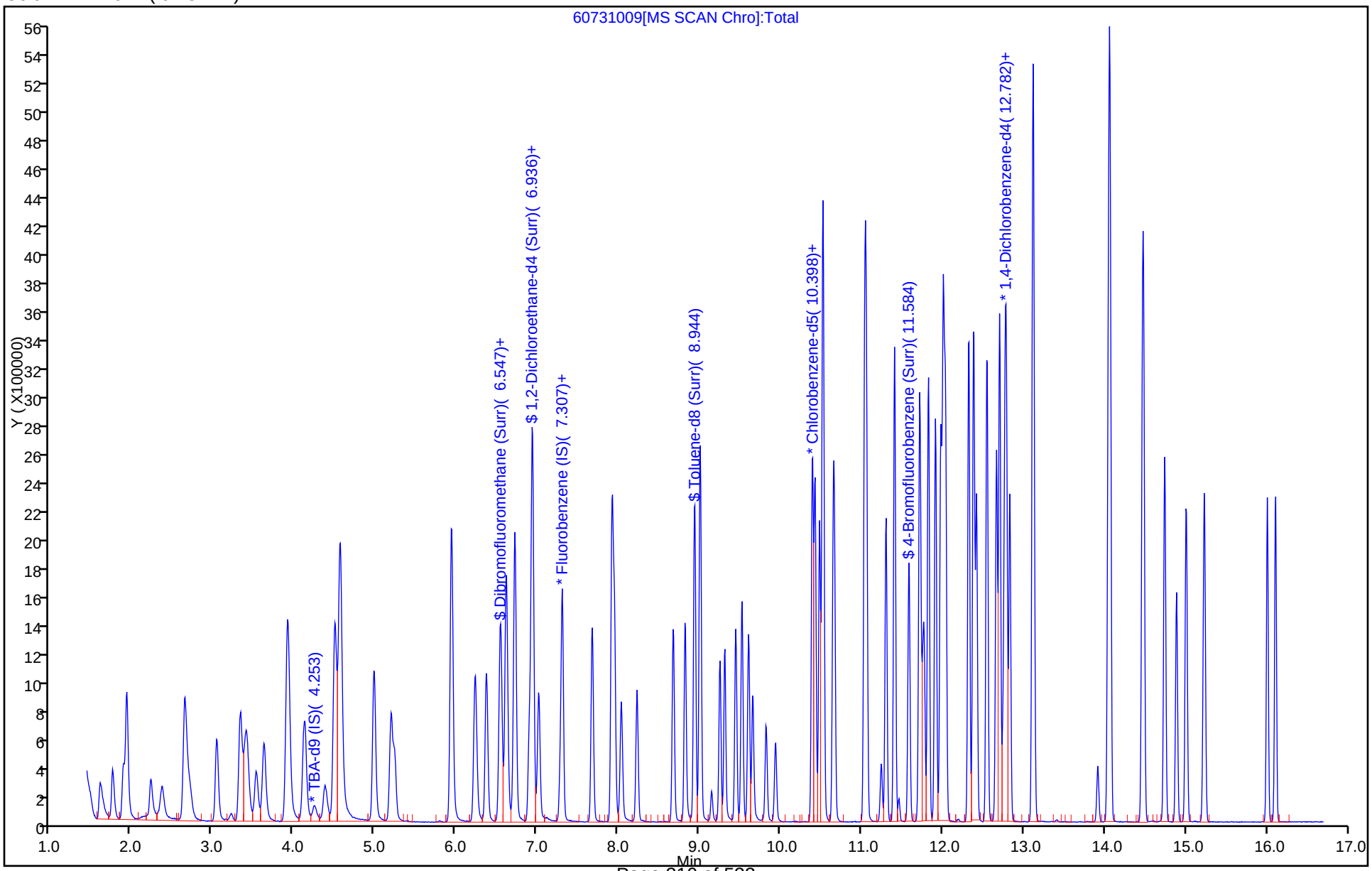
Report Date: 03-Aug-2015 12:16:13 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731009.D

Injection Date:	31-Jul-2015 16:01:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD40			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

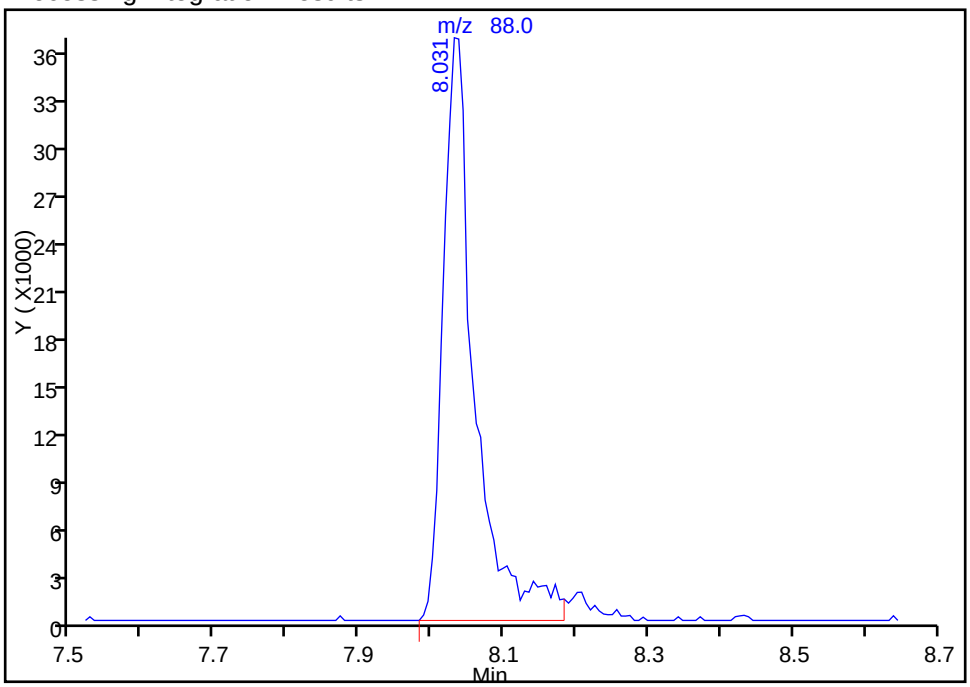
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731009.D
Injection Date: 31-Jul-2015 16:01:30 Instrument ID: CHHP6
Lims ID: IC VSTD40
Client ID:
Operator ID: 001562 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

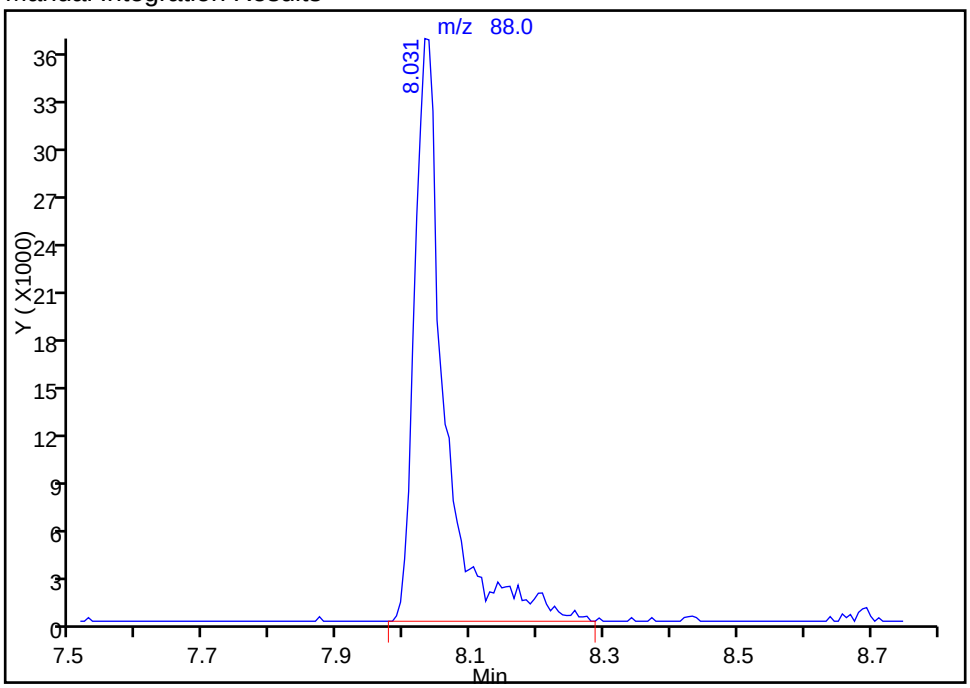
Processing Integration Results

RT: 8.03
Area: 109899
Amount: 4509.0182
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 114196
Amount: 4654.2617
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:06:32
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731010.D
Lims ID: IC VSTD50
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 31-Jul-2015 16:25:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD50
Misc. Info.: 180-0007999-010
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:16:19 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 10:08:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.266	4.247	0.019	94	205888	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.289	-0.006	98	472902	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	113483	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	92	168220	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	510673	250.0	234.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	73	806396	250.0	229.5	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	1832665	250.0	204.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	80	863895	250.0	217.4	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	100	776950	250.0	237.3	
12 Chloromethane	50	1.759	1.759	0.000	99	661756	250.0	234.5	
13 Vinyl chloride	62	1.893	1.893	0.000	99	729853	250.0	240.1	
14 Butadiene	39	1.936	1.930	0.006	90	668636	250.0	234.6	
15 Bromomethane	94	2.228	2.228	0.000	91	301175	250.0	183.5	
16 Chloroethane	64	2.362	2.374	-0.012	98	495382	250.0	238.7	
17 Dichlorofluoromethane	67	2.647	2.654	-0.007	97	1120159	250.0	232.0	
18 Trichlorofluoromethane	101	2.660	2.678	-0.018	74	914267	250.0	237.4	
20 Ethyl ether	59	3.043	3.043	0.000	89	666334	250.0	244.1	
21 Acrolein	56	3.225	3.213	0.012	98	88331	275.0	296.7	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	98	604031	250.0	253.7	
23 1,1,2-Trichloro-1,2,2-trif	101	3.396	3.402	-0.006	95	613669	250.0	244.2	
24 Acetone	43	3.432	3.432	0.000	100	446823	500.0	534.1	
25 Iodomethane	142	3.530	3.530	0.000	99	830188	250.0	259.8	
26 Carbon disulfide	76	3.627	3.633	-0.006	100	1688724	250.0	273.8	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	87	379717	250.0	282.9	
30 Methyl acetate	43	3.925	3.925	0.000	96	2441128	1250.0	1244.3	
31 Methylene Chloride	84	4.126	4.132	-0.006	90	760977	250.0	250.8	
32 2-Methyl-2-propanol	59	4.387	4.369	0.018	93	559063	2500.0	2413.0	
33 Acrylonitrile	53	4.503	4.497	0.006	97	2461613	2500.0	2489.1	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	97	687783	250.0	250.4	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	98	2105039	250.0	255.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	92	945322	250.0	253.9	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	96	1227440	250.0	249.6	
38 Vinyl acetate	43	5.239	5.239	0.000	97	1104555	250.0	278.2	
43 cis-1,2-Dichloroethene	96	5.945	5.939	0.006	83	751398	250.0	251.5	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	98	588377	500.0	515.3	
42 2,2-Dichloropropane	77	5.939	5.945	-0.006	66	694588	250.0	279.3	
48 Chlorobromomethane	128	6.225	6.225	0.000	97	308059	250.0	256.7	
49 Tetrahydrofuran	42	6.243	6.237	0.006	83	413888	500.0	538.2	
50 Chloroform	83	6.371	6.371	0.000	95	1195678	250.0	244.9	
51 1,1,1-Trichloroethane	97	6.535	6.541	-0.006	98	957300	250.0	265.4	
52 Cyclohexane	56	6.614	6.620	-0.006	91	1159567	250.0	250.9	
53 Carbon tetrachloride	117	6.717	6.717	0.000	89	690480	250.0	271.0	
54 1,1-Dichloropropene	75	6.729	6.730	-0.001	93	968671	250.0	249.7	
55 Isobutyl alcohol	41	6.900	6.900	0.000	91	482886	6250.0	7057.9	
56 Benzene	78	6.942	6.942	0.000	99	2526807	250.0	229.3	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	98	1055651	250.0	237.8	
59 n-Heptane	43	7.307	7.307	0.000	87	756814	250.0	252.6	
61 Trichloroethene	130	7.678	7.679	-0.001	93	577638	250.0	251.3	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	1169092	250.0	250.6	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	86	664355	250.0	252.3	
65 1,4-Dioxane	88	8.031	8.031	0.000	44	139772	5000.0	5378.1	M
67 Dibromomethane	93	8.037	8.037	0.000	93	409028	250.0	255.8	
68 Dichlorobromomethane	83	8.232	8.226	0.006	99	821950	250.0	273.6	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	93	960857	250.0	291.2	
72 4-Methyl-2-pentanone (MIBK	43	8.822	8.822	0.000	93	1194590	500.0	512.0	
73 Toluene	91	9.011	9.011	0.000	97	2462377	250.0	210.3	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	96	837722	250.0	281.8	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	855316	250.0	270.9	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	93	567107	250.0	234.2	
77 Tetrachloroethene	164	9.522	9.528	-0.006	92	461983	250.0	231.3	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	92	1022129	250.0	228.4	
79 2-Hexanone	43	9.656	9.656	0.000	93	790089	500.0	515.7	
81 Chlorodibromomethane	129	9.820	9.826	-0.006	90	451973	250.0	273.4	
82 Ethylene Dibromide	107	9.942	9.936	0.006	98	526477	250.0	245.7	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	92	786880	250.0	209.9	
84 Chlorobenzene	112	10.428	10.428	0.000	89	1585885	250.0	220.3	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	739908	250.0	212.9	
86 1,1,1,2-Tetrachloroethane	131	10.519	10.520	-0.001	49	519653	250.0	263.5	
87 Ethylbenzene	106	10.526	10.526	0.000	97	943999	250.0	232.5	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	97	1179895	250.0	234.2	
89 o-Xylene	106	11.043	11.037	0.006	96	1188451	250.0	235.8	
90 Styrene	104	11.061	11.061	0.000	93	1825312	250.0	235.8	
91 Bromoform	173	11.243	11.243	0.000	93	249108	250.0	282.3	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	94	831476	250.0	216.5	
93 Isopropylbenzene	105	11.408	11.408	0.000	99	2614965	250.0	216.8	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	97	764885	250.0	236.1	
95 Bromobenzene	156	11.724	11.724	0.000	98	665597	250.0	246.1	
97 trans-1,4-Dichloro-2-buten	53	11.754	11.748	0.006	83	239026	250.0	278.7	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	85	257089	250.0	250.0	
99 N-Propylbenzene	120	11.827	11.827	0.000	96	793964	250.0	254.9	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	652311	250.0	252.3	
101 3-Chlorotoluene	126	11.979	11.980	-0.001	96	649907	250.0	239.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	96	2358116	250.0	232.9	
103 4-Chlorotoluene	126	12.034	12.034	0.000	99	684319	250.0	250.5	
104 tert-Butylbenzene	119	12.326	12.320	0.006	90	1949627	250.0	243.7	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	97	2433681	250.0	235.0	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	95	680073	250.0	231.8	
108 sec-Butylbenzene	105	12.545	12.545	0.000	96	2739728	250.0	229.4	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	92	1267194	250.0	239.9	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	93	2392925	250.0	238.8	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	92	1287354	250.0	238.4	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	96	641375	250.0	219.8	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	97	781945	250.0	239.9	
116 n-Butylbenzene	91	13.111	13.111	0.000	95	2352259	250.0	235.1	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	95	1249514	250.0	234.3	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	73	147337	250.0	301.3	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	93	3058923	750.0	659.0	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	95	2357462	500.0	460.3	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	1022001	250.0	247.3	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	97	414314	250.0	254.5	
124 Naphthalene	128	15.003	15.003	0.000	98	2149836	250.0	257.7	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	92	953082	250.0	246.4	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	681135	250.0	262.3	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	93	630961	250.0	256.1	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		500.0	501.9	
S 131 Xylenes, Total	106				0		500.0	469.9	
S 132 1,3-Dichloropropene, Total	1				0		500.0	573.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	10.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	10.00	Units: uL	
voaWket1Reste_00001	Amount Added:	10.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	10.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	10.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	11.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

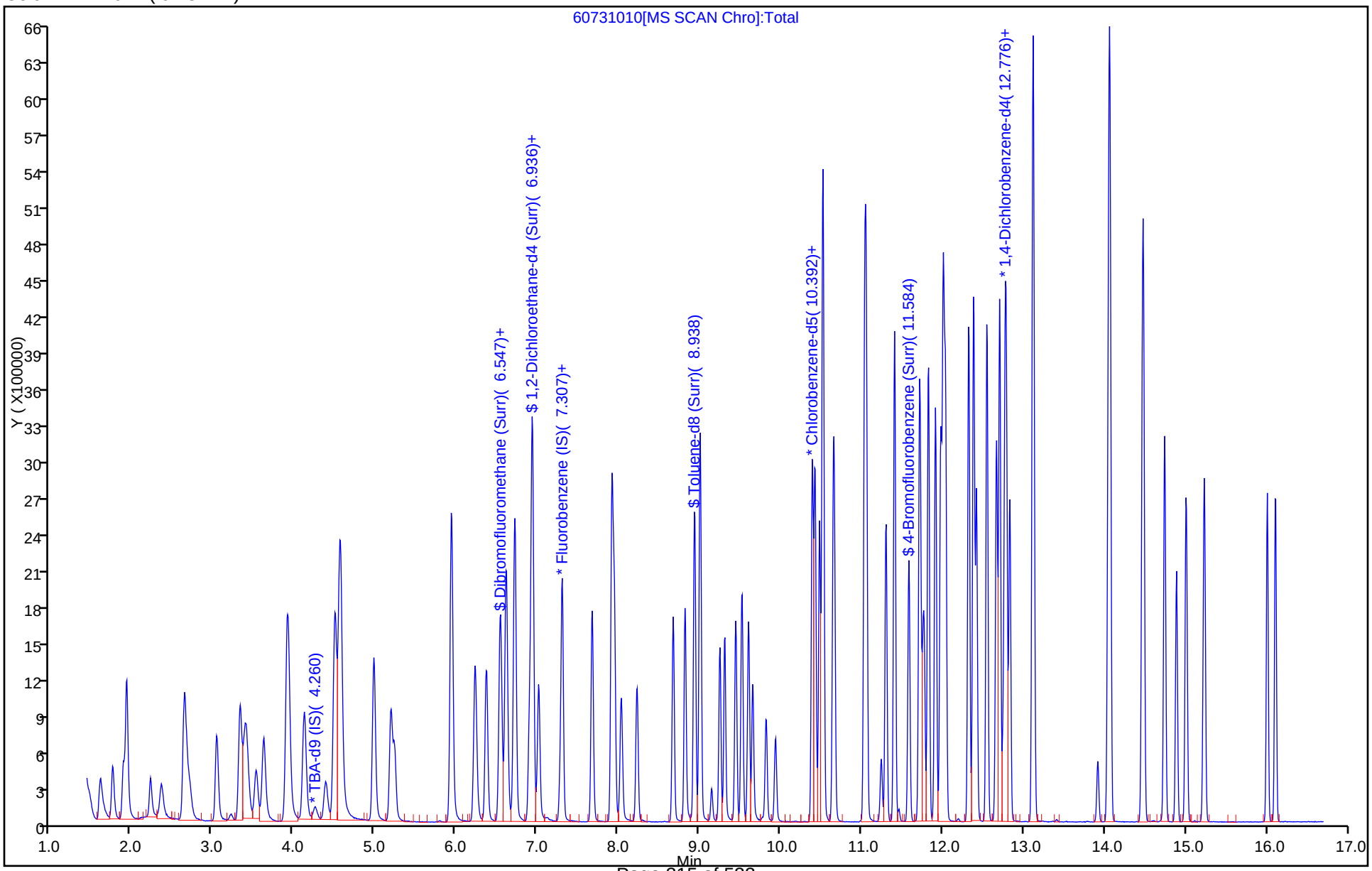
Report Date: 03-Aug-2015 12:16:21 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731010.D

Injection Date:	31-Jul-2015 16:25:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD50			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

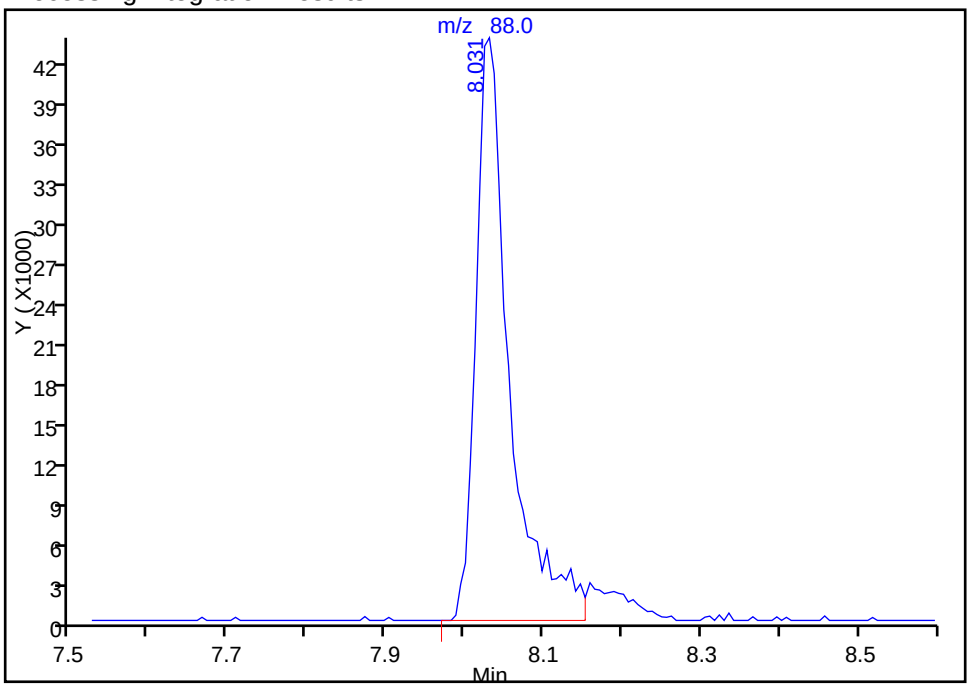
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731010.D
Injection Date: 31-Jul-2015 16:25:30 Instrument ID: CHHP6
Lims ID: IC VSTD50
Client ID:
Operator ID: 001562 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

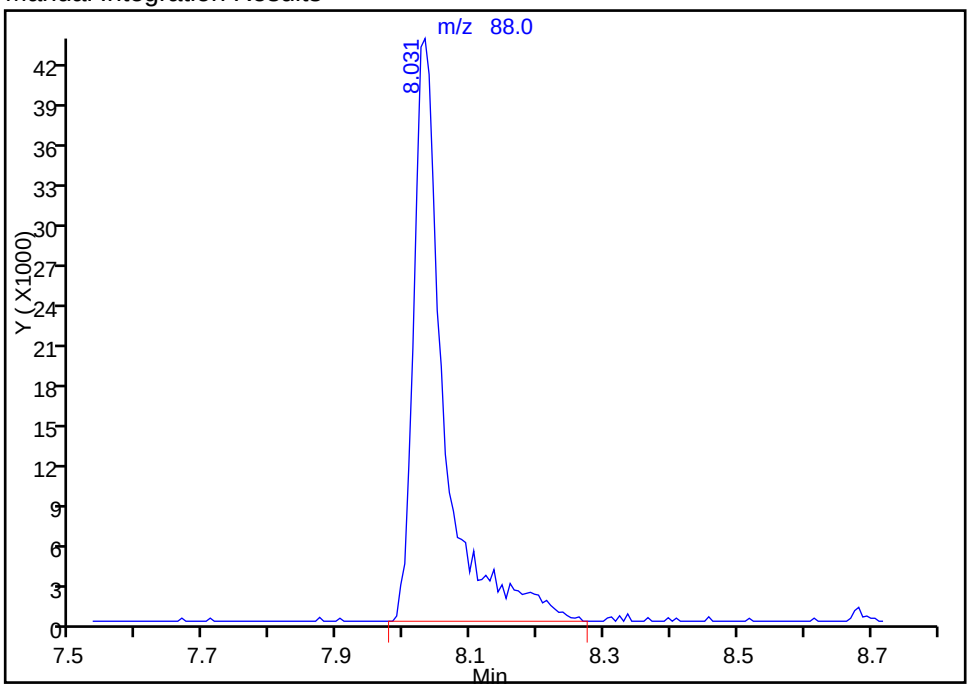
Processing Integration Results

RT: 8.03
Area: 130472
Amount: 5026.0517
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 139772
Amount: 5378.0842
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:08:16
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Lims ID: IC VSTD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Jul-2015 18:02:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD1
Misc. Info.: 180-0007999-014
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:57:05 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 11:05:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.242	4.248	-0.006	92	162667	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.284	7.284	0.000	98	456532	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	92	93799	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.747	-0.001	97	157240	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.554	-0.001	89	11777	5.00	5.60	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	54	19952	5.00	5.88	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	41667	5.00	5.63	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.585	0.000	77	19549	5.00	5.95	
11 Dichlorodifluoromethane	85	1.614	1.608	0.006	97	17276	5.00	5.46	
12 Chloromethane	50	1.754	1.754	0.000	99	15485	5.00	5.68	
13 Vinyl chloride	62	1.887	1.888	-0.001	62	15792	5.00	5.38	
14 Butadiene	39	1.930	1.930	0.000	93	15290	5.00	5.56	
15 Bromomethane	94	2.234	2.228	0.006	96	9521	5.00	6.01	
16 Chloroethane	64	2.356	2.368	-0.012	92	9922	5.00	4.95	
17 Dichlorofluoromethane	67	2.648	2.648	0.000	96	24941	5.00	5.35	
18 Trichlorofluoromethane	101	2.684	2.660	0.024	51	19389	5.00	5.21	M
20 Ethyl ether	59	3.037	3.049	-0.012	90	14586	5.00	5.53	
21 Acrolein	56	3.220	3.220	0.000	99	28320	100.0	98.5	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	95	11872	5.00	5.17	
23 1,1,2-Trichloro-1,2,2-trif	101	3.396	3.390	0.006	53	13209	5.00	5.44	
24 Acetone	43	3.421	3.421	-0.001	99	22203	25.0	27.5	M
25 Iodomethane	142	3.542	3.536	0.006	81	14090	5.00	4.57	
26 Carbon disulfide	76	3.633	3.627	0.006	99	26146	5.00	4.39	
29 3-Chloro-1-propene	76	3.919	3.919	0.000	86	5562	5.00	4.29	
30 Methyl acetate	43	3.932	3.926	0.006	98	50033	25.0	26.4	
31 Methylene Chloride	84	4.132	4.132	0.000	94	30274	5.00	5.01	
32 2-Methyl-2-propanol	59	4.363	4.370	-0.007	86	9874	50.0	53.9	
33 Acrylonitrile	53	4.509	4.503	0.006	99	48723	50.0	51.0	M
34 trans-1,2-Dichloroethene	96	4.558	4.564	-0.006	70	13191	5.00	4.97	
35 Methyl tert-butyl ether	73	4.564	4.576	-0.012	98	41079	5.00	5.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	91	19223	5.00	5.35	
37 1,1-Dichloroethane	63	5.197	5.197	0.000	89	23168	5.00	4.88	
38 Vinyl acetate	43	5.246	5.240	0.006	96	17413	5.00	4.54	
43 cis-1,2-Dichloroethene	96	5.951	5.939	0.012	83	15010	5.00	5.20	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	97	26408	25.0	24.0	
42 2,2-Dichloropropane	77	5.939	5.945	-0.006	57	9613	5.00	4.00	
48 Chlorobromomethane	128	6.231	6.231	0.000	95	6120	5.00	5.28	
49 Tetrahydrofuran	42	6.249	6.249	0.000	82	8204	10.0	11.1	
50 Chloroform	83	6.371	6.371	0.000	94	23924	5.00	5.08	
51 1,1,1-Trichloroethane	97	6.547	6.541	0.006	96	15055	5.00	4.32	M
52 Cyclohexane	56	6.608	6.620	-0.012	88	22688	5.00	5.09	
53 Carbon tetrachloride	117	6.712	6.718	-0.006	92	10435	5.00	4.24	
54 1,1-Dichloropropene	75	6.724	6.724	0.000	90	17924	5.00	4.79	
55 Isobutyl alcohol	41	6.900	6.900	0.000	80	7317	125.0	110.8	M
56 Benzene	78	6.943	6.943	0.000	96	59844	5.00	5.62	
57 1,2-Dichloroethane	62	7.016	7.016	0.000	98	23604	5.00	5.51	
59 n-Heptane	43	7.302	7.308	-0.006	86	14990	5.00	5.18	
61 Trichloroethene	130	7.679	7.679	0.000	89	11389	5.00	5.13	
63 Methylcyclohexane	83	7.916	7.922	-0.006	88	22772	5.00	5.06	
64 1,2-Dichloropropane	63	7.947	7.953	-0.006	86	13712	5.00	5.39	
65 1,4-Dioxane	88	8.026	8.032	-0.006	39	2321	100.0	92.5	
67 Dibromomethane	93	8.032	8.038	-0.006	92	7749	5.00	5.02	
68 Dichlorobromomethane	83	8.226	8.227	-0.001	96	11941	5.00	4.12	
71 cis-1,3-Dichloropropene	75	8.683	8.677	0.006	90	11797	5.00	3.70	
72 4-Methyl-2-pentanone (MIBK	43	8.829	8.823	0.006	96	42150	25.0	21.9	
73 Toluene	91	9.011	9.011	0.000	98	55394	5.00	5.72	
74 trans-1,3-Dichloropropene	75	9.255	9.255	0.000	97	8162	5.00	3.32	
75 Ethyl methacrylate	69	9.315	9.315	0.000	87	9928	5.00	3.80	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	91	10927	5.00	5.46	
77 Tetrachloroethene	164	9.528	9.522	0.006	90	9096	5.00	5.51	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	91	19746	5.00	5.34	
79 2-Hexanone	43	9.656	9.656	0.000	96	27957	25.0	22.1	
81 Chlorodibromomethane	129	9.826	9.826	0.000	88	4662	5.00	3.41	
82 Ethylene Dibromide	107	9.942	9.942	0.000	93	8796	5.00	4.97	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	56	18146	5.00	5.86	
84 Chlorobenzene	112	10.429	10.429	0.000	93	33099	5.00	5.56	
85 4-Chlorobenzotrifluoride	180	10.490	10.483	0.007	96	15713	5.00	5.47	
86 1,1,1,2-Tetrachloroethane	131	10.514	10.520	-0.006	40	6472	5.00	3.97	
87 Ethylbenzene	106	10.532	10.526	0.006	98	17773	5.00	5.30	
88 m-Xylene & p-Xylene	106	10.654	10.660	-0.006	97	21283	5.00	5.11	
89 o-Xylene	106	11.037	11.043	-0.006	96	20074	5.00	4.82	
90 Styrene	104	11.061	11.061	0.000	93	28385	5.00	4.44	
91 Bromoform	173	11.244	11.244	0.000	35	2602	5.00	3.57	
92 2-Chlorobenzotrifluoride	180	11.305	11.305	0.000	92	16686	5.00	5.26	
93 Isopropylbenzene	105	11.408	11.408	0.000	96	49505	5.00	4.97	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	73	13623	5.00	5.09	
95 Bromobenzene	156	11.724	11.725	-0.001	96	12814	5.00	5.07	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.749	0.000	51	3433	5.00	4.28	
98 1,2,3-Trichloropropane	110	11.773	11.767	0.006	83	4898	5.00	5.10	
99 N-Propylbenzene	120	11.822	11.828	-0.006	99	13092	5.00	4.50	
100 2-Chlorotoluene	126	11.919	11.913	0.006	93	11155	5.00	4.62	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	11861	5.00	4.67	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	93	43612	5.00	4.61	
103 4-Chlorotoluene	126	12.035	12.041	-0.006	98	12056	5.00	4.72	
104 tert-Butylbenzene	119	12.321	12.321	0.000	92	34048	5.00	4.55	
106 1,2,4-Trimethylbenzene	105	12.381	12.382	-0.001	98	41890	5.00	4.33	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	96	14947	5.00	5.45	
108 sec-Butylbenzene	105	12.546	12.546	0.000	96	50094	5.00	4.49	
109 1,3-Dichlorobenzene	146	12.661	12.667	-0.006	88	25334	5.00	5.13	
110 4-Isopropyltoluene	119	12.704	12.704	0.000	95	40061	5.00	4.28	
111 1,4-Dichlorobenzene	146	12.771	12.771	0.000	88	25908	5.00	5.13	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	92	13852	5.00	5.08	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.832	0.000	94	17529	5.00	5.75	
116 n-Butylbenzene	91	13.111	13.112	-0.001	98	43104	5.00	4.61	
117 1,2-Dichlorobenzene	146	13.130	13.124	0.006	93	27271	5.00	5.47	
118 1,2-Dibromo-3-Chloropropan	75	13.921	13.921	0.000	62	1637	5.00	3.58	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.054	14.061	-0.007	98	64430	15.0	14.8	
121 2,3- & 3,4- Dichlorotoluen	125	14.480	14.474	0.006	97	44720	10.0	9.34	
122 1,2,4-Trichlorobenzene	180	14.742	14.736	0.006	88	18465	5.00	4.78	
123 Hexachlorobutadiene	225	14.888	14.888	0.000	91	7049	5.00	4.63	
124 Naphthalene	128	15.010	15.004	0.006	97	30879	5.00	3.96	
125 1,2,3-Trichlorobenzene	180	15.229	15.229	0.000	92	18575	5.00	5.14	
126 2,4,5-Trichlorotoluene	159	16.013	16.007	0.006	0	10257	5.00	4.23	
127 2,3,6-Trichlorotoluene	159	16.111	16.111	0.000	93	10609	5.00	4.61	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		10.0	10.2	
S 131 Xylenes, Total	106				0		10.0	9.93	
S 132 1,3-Dichloropropene, Total	1				0		10.0	7.03	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	0.20	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	0.20	Units: uL	
voaWVA1st Res_00003	Amount Added:	0.20	Units: uL	
voaWeemix1Res_00001	Amount Added:	0.20	Units: uL	
voaWket1Reste_00001	Amount Added:	0.80	Units: uL	
voaWAcro2nd R_00006	Amount Added:	4.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

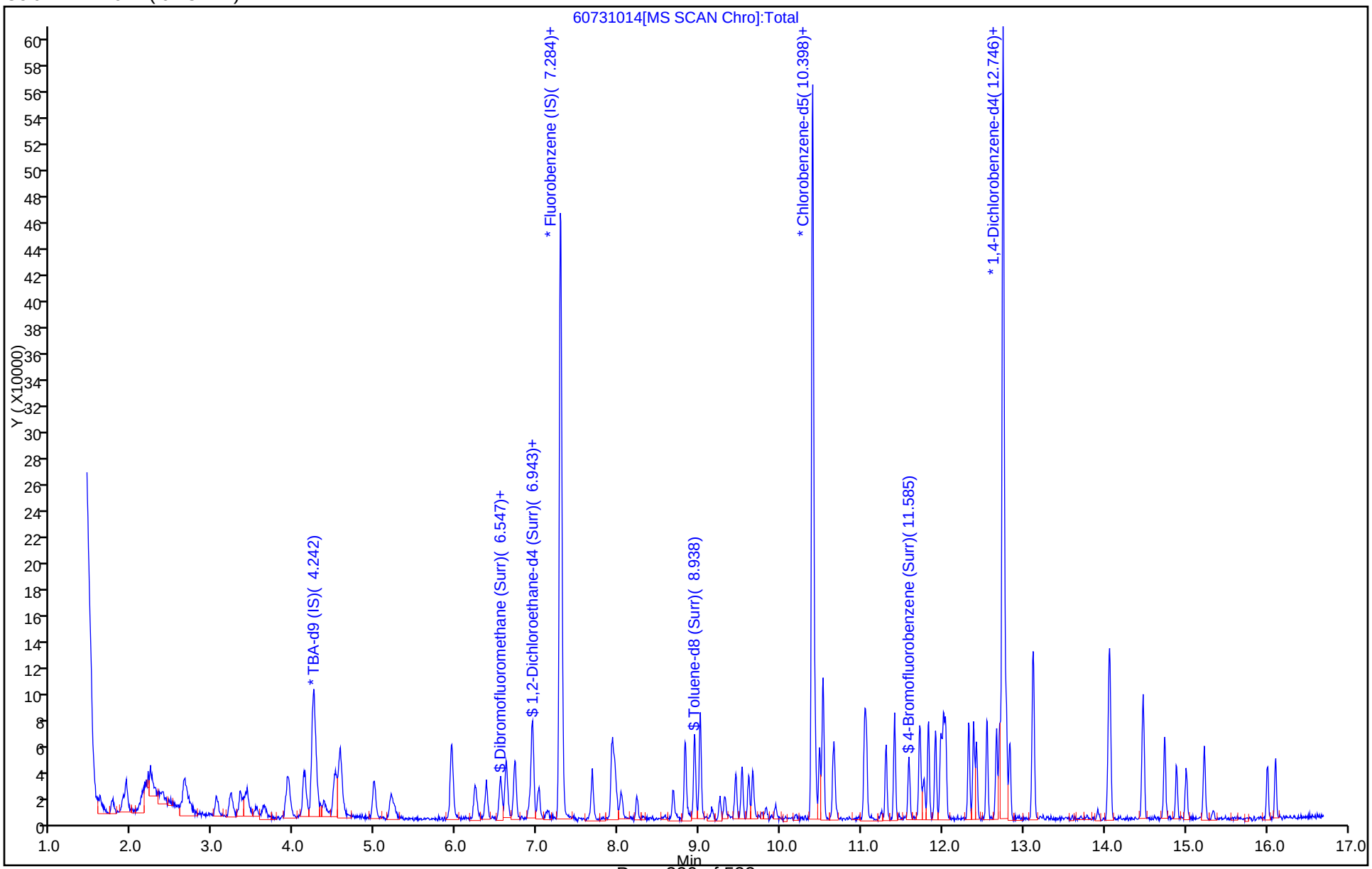
Report Date: 03-Aug-2015 12:57:06 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Injection Date:	31-Jul-2015 18:02:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD1			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

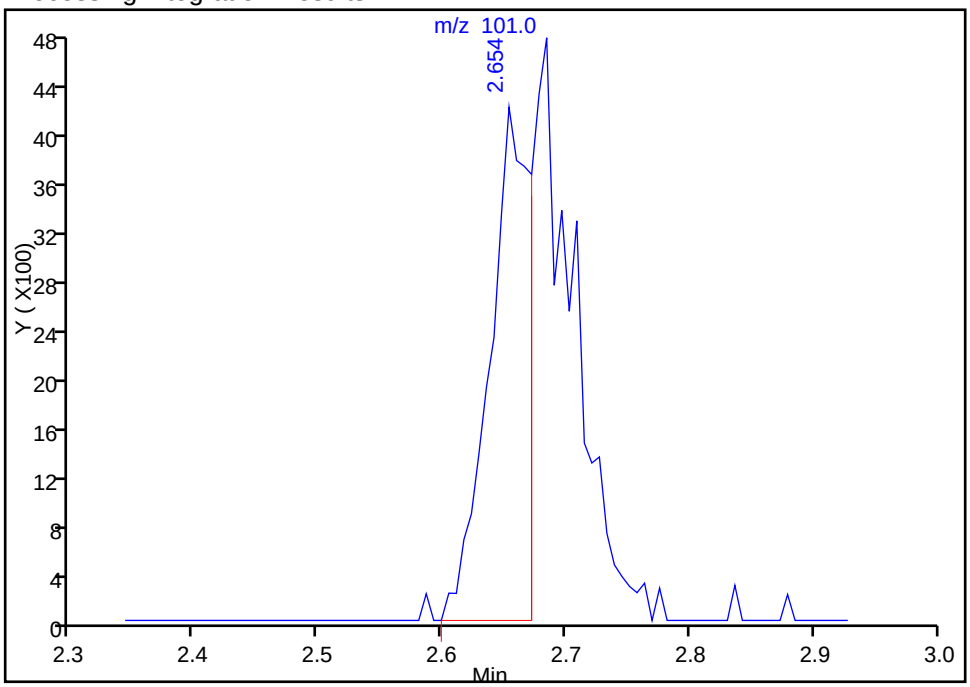
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

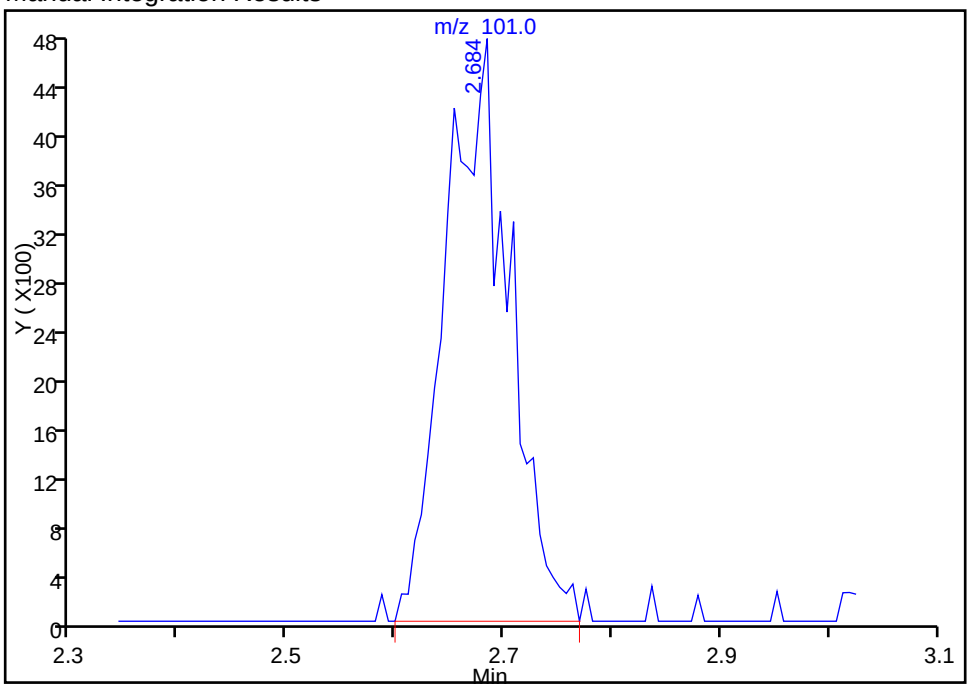
Processing Integration Results

RT: 2.65
Area: 9483
Amount: 2.504798
Amount Units: ng



Manual Integration Results

RT: 2.68
Area: 19389
Amount: 5.214616
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

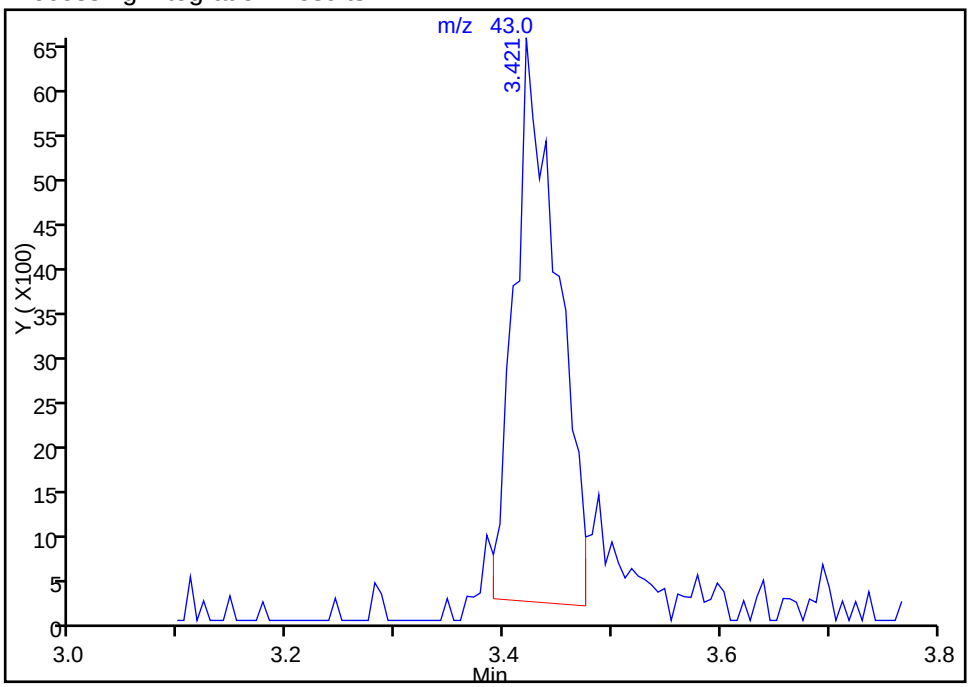
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

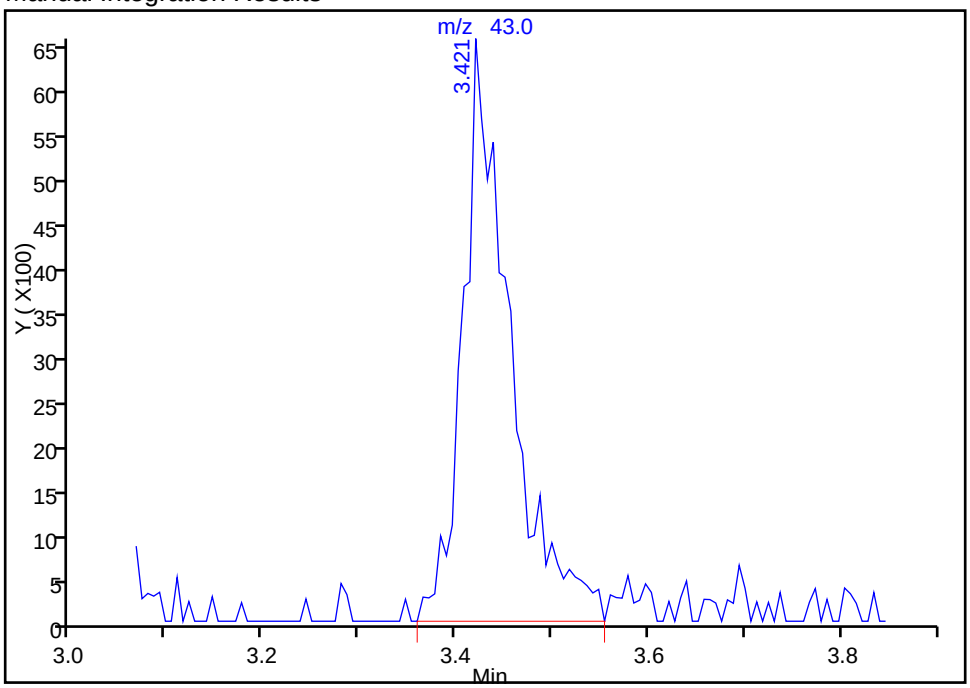
Processing Integration Results

RT: 3.42
Area: 17621
Amount: 21.931508
Amount Units: ng



Manual Integration Results

RT: 3.42
Area: 22203
Amount: 27.489890
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

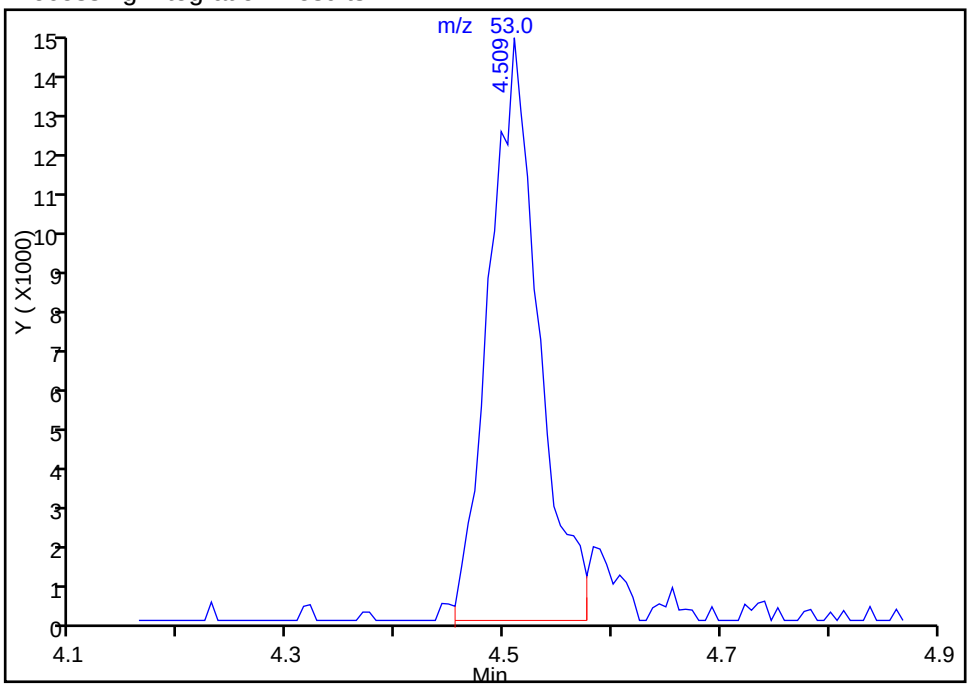
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D				
Injection Date:	31-Jul-2015 18:02:30	Instrument ID:	CHHP6		
Lims ID:	IC VSTD1				
Client ID:					
Operator ID:	001562	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

33 Acrylonitrile, CAS: 107-13-1

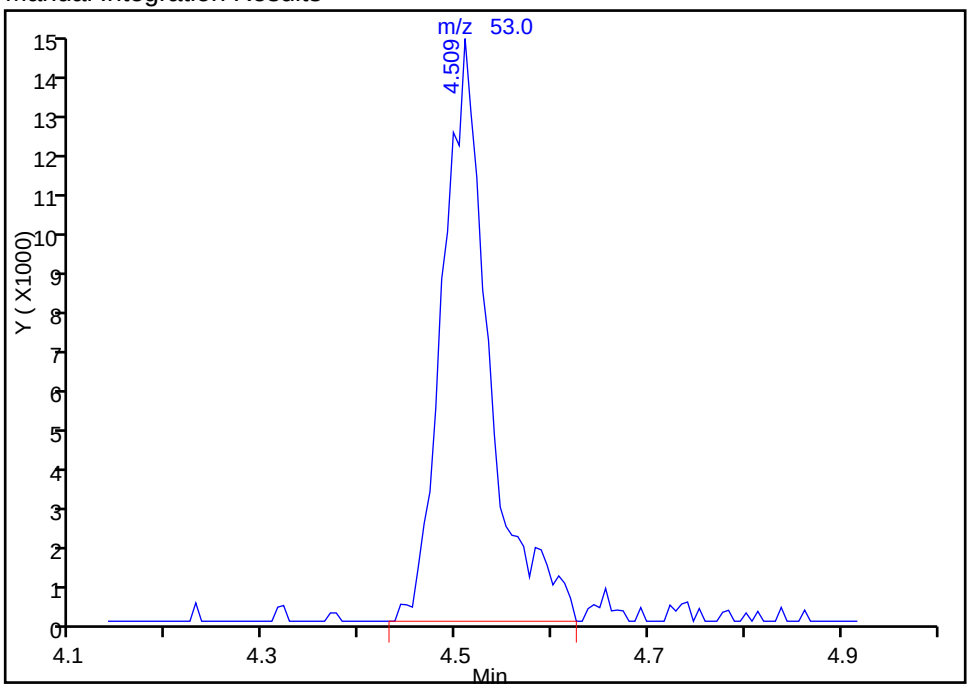
Processing Integration Results

RT: 4.51
Area: 45326
Amount: 48.323975
Amount Units: ng



Manual Integration Results

RT: 4.51
Area: 48723
Amount: 51.033411
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

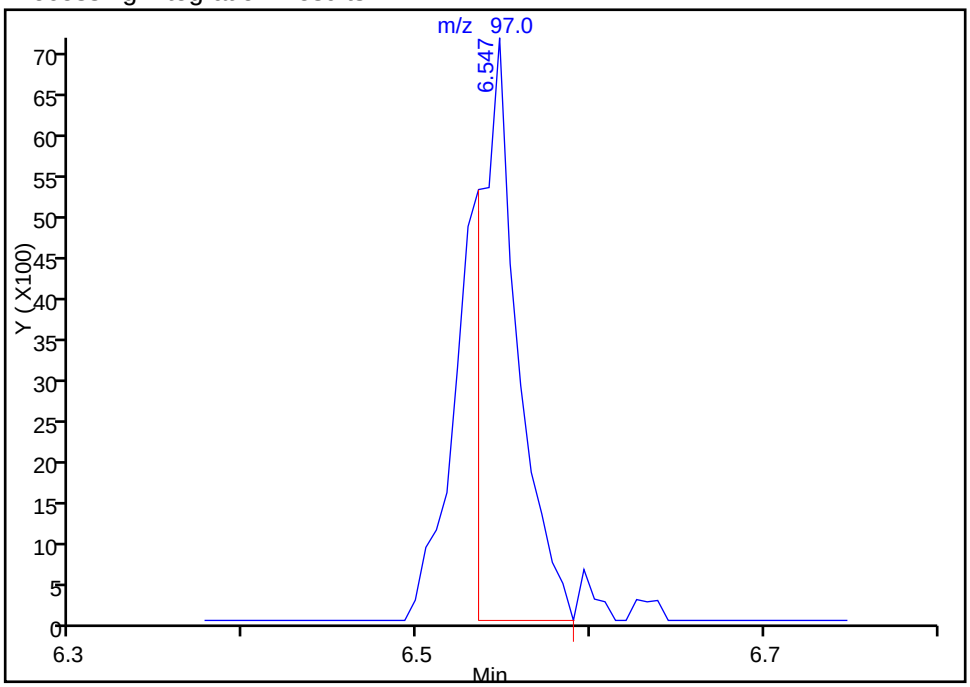
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

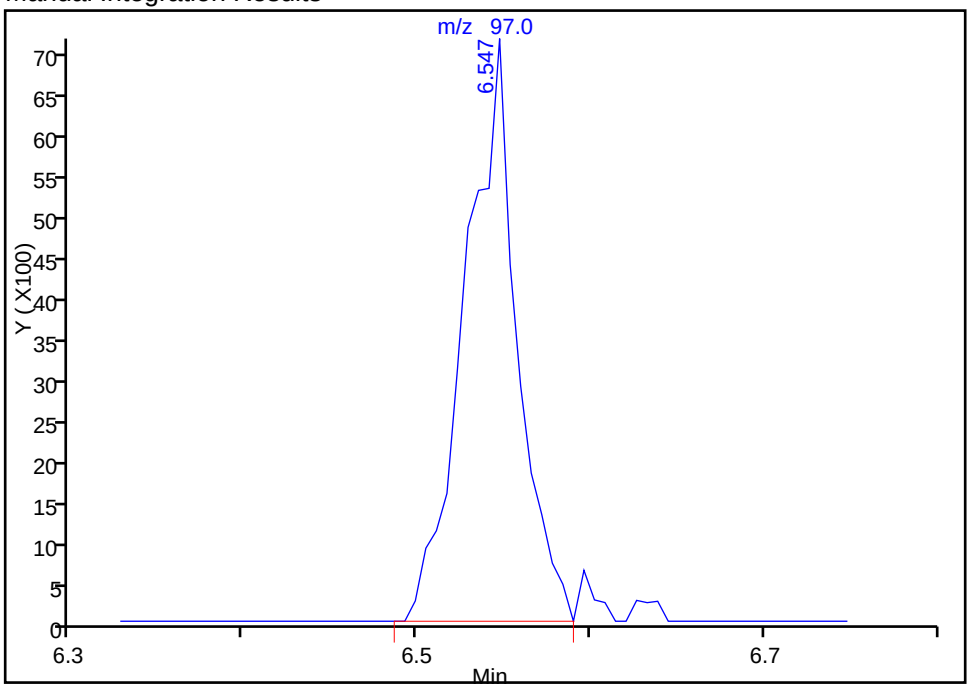
Processing Integration Results

RT: 6.55
Area: 10745
Amount: 3.045023
Amount Units: ng



Manual Integration Results

RT: 6.55
Area: 15055
Amount: 4.323691
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

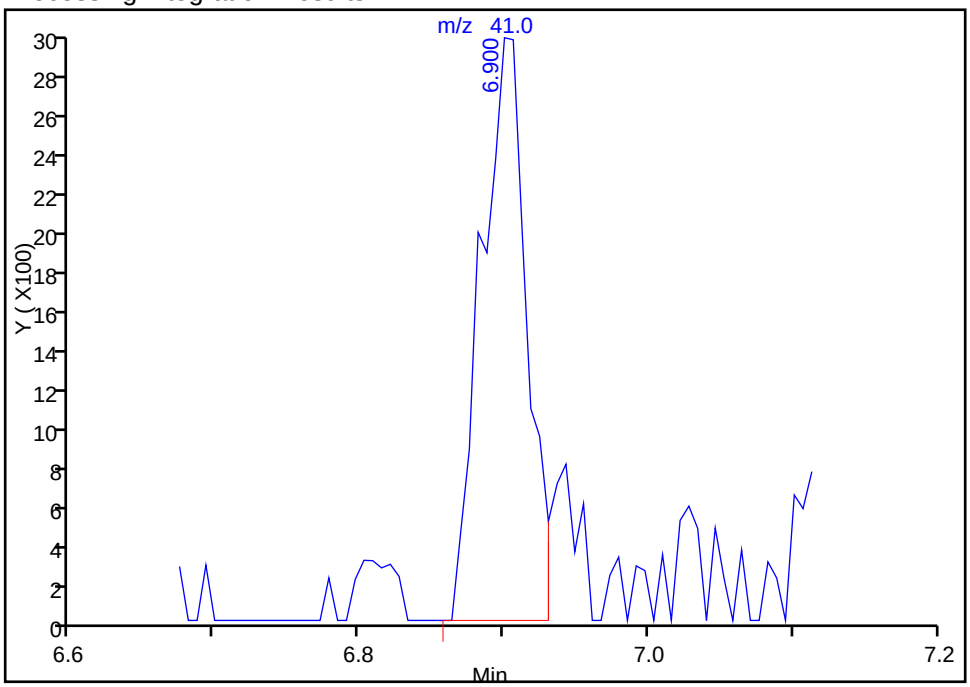
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

55 Isobutyl alcohol, CAS: 78-83-1

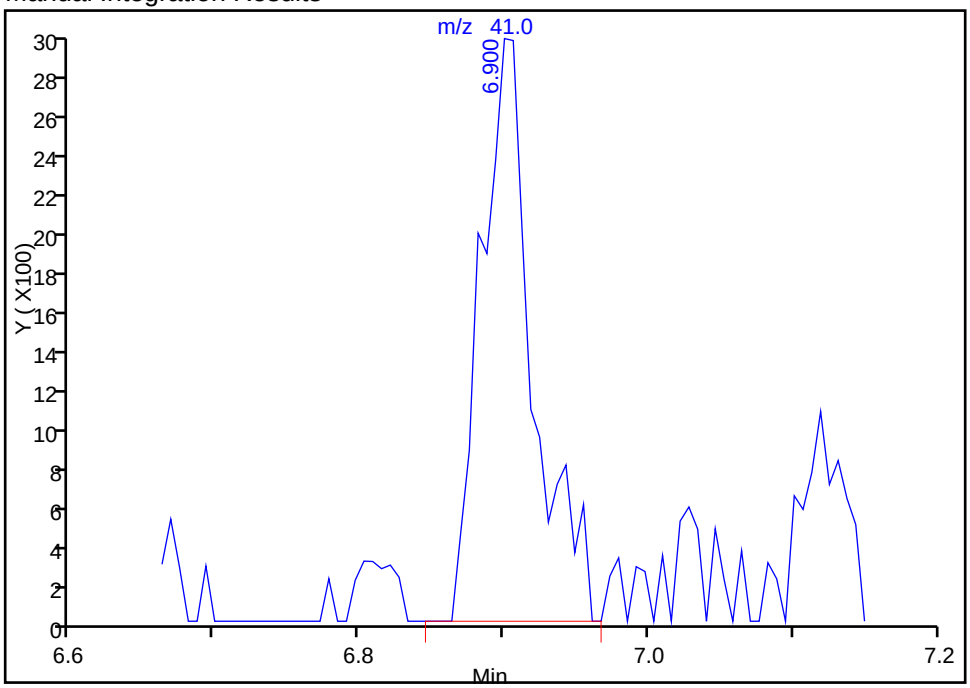
Processing Integration Results

RT: 6.90
Area: 6443
Amount: 97.511814
Amount Units: ng



Manual Integration Results

RT: 6.90
Area: 7317
Amount: 110.7809
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-155869/2 Calibration Date: 10/05/2015 10:05

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61005002.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	0.3462	0.3266	0.1000	9.43	10.0	-5.7	20.0
Chloromethane	Ave	0.2984	0.3193	0.1000	10.7	10.0	7.0	20.0
Vinyl chloride	Ave	0.3214	0.3218	0.1000	10.0	10.0	0.1	20.0
1,3-Butadiene	Ave	0.3013	0.3380	0.0100	11.2	10.0	12.2	20.0
Bromomethane	Ave	0.1735	0.1520	0.0500	8.76	10.0	-12.4	20.0
Chloroethane	Ave	0.2194	0.2119	0.0500	9.66	10.0	-3.4	20.0
Dichlorofluoromethane	Ave	0.5106	0.4702	0.0100	9.21	10.0	-7.9	20.0
Trichlorofluoromethane	Ave	0.4072	0.3773	0.1000	9.27	10.0	-7.3	20.0
Ethyl ether	Ave	0.2886	0.2966	0.0100	10.3	10.0	2.8	20.0
Acrolein	Ave	0.0315	0.0307	0.0100	29.2	30.0	-2.6	20.0
1,1-Dichloroethene	Ave	0.2517	0.2418	0.1000	9.61	10.0	-3.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2657	0.2714	0.1000	10.2	10.0	2.1	20.0
Acetone	Ave	0.0885	0.0922	0.0500	20.8	20.0	4.2	20.0
Iodomethane	Ave	0.3379	0.3500	0.0100	10.4	10.0	3.6	20.0
Carbon disulfide	Ave	0.6522	0.6465	0.1000	9.91	10.0	-0.9	20.0
Allyl chloride	Ave	0.1419	0.1343	0.0100	9.47	10.0	-5.3	20.0
Methyl acetate	Ave	0.2074	0.2402	0.1000	57.9	50.0	15.8	20.0
Methylene Chloride	Lin2		0.3168	0.1000	8.98	10.0	-10.2	20.0
tert-Butyl alcohol	Ave	1.125	1.204	0.0100	107	100	7.0	20.0
Acrylonitrile	Ave	0.1046	0.1183	0.0100	113	100	13.1	20.0
trans-1,2-Dichloroethene	Ave	0.2905	0.2695	0.1000	9.28	10.0	-7.2	20.0
Methyl tert-butyl ether	Ave	0.8703	0.7631	0.1000	8.77	10.0	-12.3	20.0
Hexane	Ave	0.3936	0.4392	0.0100	11.2	10.0	11.6	20.0
1,1-Dichloroethane	Ave	0.5200	0.5196	0.2000	9.99	10.0	-0.0	20.0
Vinyl acetate	Ave	0.4197	0.3914	0.0100	9.33	10.0	-6.7	20.0
2,2-Dichloropropane	Ave	0.2629	0.2436	0.0100	9.26	10.0	-7.4	20.0
cis-1,2-Dichloroethene	Ave	0.3158	0.2836	0.1000	8.98	10.0	-10.2	20.0
2-Butanone (MEK)	Ave	0.1207	0.1254	0.0500	20.8	20.0	3.9	20.0
Bromochloromethane	Ave	0.1269	0.1335	0.0100	10.5	10.0	5.2	20.0
Tetrahydrofuran	Ave	0.0813	0.0900	0.0100	22.1	20.0	10.7	20.0
Chloroform	Ave	0.5161	0.4936	0.2000	9.56	10.0	-4.4	20.0
1,1,1-Trichloroethane	Ave	0.3814	0.3771	0.1000	9.89	10.0	-1.1	20.0
Cyclohexane	Ave	0.4886	0.5280	0.1000	10.8	10.0	8.1	20.0
Carbon tetrachloride	Ave	0.2694	0.3063	0.1000	11.4	10.0	13.7	20.0
1,1-Dichloropropene	Ave	0.4102	0.4098	0.0100	9.99	10.0	-0.0	20.0
Isobutyl alcohol	Ave	0.0072	0.0079*	0.0100	271	250	8.6	20.0
Benzene	Ave	1.165	1.227	0.5000	10.5	10.0	5.3	20.0
1,2-Dichloroethane	Ave	0.4694	0.4609	0.1000	9.82	10.0	-1.8	20.0
n-Heptane	Ave	0.3168	0.4363	0.0100	13.8	10.0	37.7*	20.0
Trichloroethene	Ave	0.2430	0.2608	0.2000	10.7	10.0	7.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-155869/2 Calibration Date: 10/05/2015 10:05

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61005002.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	0.4932	0.4861	0.1000	9.86	10.0	-1.4	20.0
1,2-Dichloropropane	Ave	0.2784	0.3050	0.1000	11.0	10.0	9.6	20.0
1,4-Dioxane	Ave	0.0027	0.0027*	0.0100	193	200	-3.5	20.0
Dibromomethane	Ave	0.1690	0.1665	0.0100	9.85	10.0	-1.5	20.0
Bromodichloromethane	Ave	0.3176	0.3221	0.2000	10.1	10.0	1.4	20.0
cis-1,3-Dichloropropene	Ave	0.3489	0.3644	0.2000	10.4	10.0	4.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.028	0.9635	0.1000	18.7	20.0	-6.3	20.0
Toluene	Ave	5.159	5.289	0.4000	10.3	10.0	2.5	20.0
trans-1,3-Dichloropropene	Ave	1.310	1.415	0.1000	10.8	10.0	8.1	20.0
Ethyl methacrylate	Ave	1.391	1.315	0.0100	9.46	10.0	-5.4	20.0
1,1,2-Trichloroethane	Ave	1.067	1.074	0.1000	10.1	10.0	0.6	20.0
Tetrachloroethene	Ave	0.8800	1.002	0.2000	11.4	10.0	13.8	20.0
1,3-Dichloropropane	Ave	1.971	1.995	0.0100	10.1	10.0	1.2	20.0
2-Hexanone	Ave	0.6750	0.7595	0.1000	22.5	20.0	12.5	20.0
Dibromochloromethane	Ave	0.7283	0.8638	0.1000	11.9	10.0	18.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.9442	0.9672	0.1000	10.2	10.0	2.4	20.0
3-Chlorobenzotrifluoride	Ave	1.652	1.814	0.0100	11.0	10.0	9.8	20.0
Chlorobenzene	Ave	3.171	3.259	0.5000	10.3	10.0	2.8	20.0
4-Chlorobenzotrifluoride	Ave	1.531	1.698	0.0100	11.1	10.0	10.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8691	1.005	0.0100	11.6	10.0	15.6	20.0
Ethylbenzene	Ave	1.789	1.874	0.1000	10.5	10.0	4.7	20.0
m-Xylene & p-Xylene	Ave	2.220	2.337	0.1000	10.5	10.0	5.3	20.0
o-Xylene	Ave	2.221	2.222	0.3000	10.0	10.0	0.0	20.0
Styrene	Ave	3.411	3.676	0.3000	10.8	10.0	7.8	20.0
Bromoform	Ave	0.3887	0.4487	0.1000	11.5	10.0	15.4	20.0
2-Chlorobenzotrifluoride	Ave	1.692	1.843	0.0100	10.9	10.0	8.9	20.0
Isopropylbenzene	Ave	5.314	5.484	0.1000	10.3	10.0	3.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.428	1.350	0.3000	9.46	10.0	-5.4	20.0
Bromobenzene	Ave	0.8038	0.7889	0.0100	9.81	10.0	-1.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2549	0.2336	0.0100	9.16	10.0	-8.4	20.0
1,2,3-Trichloropropane	Ave	0.3057	0.2506	0.0100	8.20	10.0	-18.0	20.0
N-Propylbenzene	Ave	0.9257	0.8458	0.0100	9.14	10.0	-8.6	20.0
2-Chlorotoluene	Ave	0.7686	0.7312	0.0100	9.51	10.0	-4.9	20.0
3-Chlorotoluene	Ave	0.8072	0.7841	0.0100	9.71	10.0	-2.9	20.0
1,3,5-Trimethylbenzene	Ave	3.010	2.792	0.0100	9.28	10.0	-7.2	20.0
4-Chlorotoluene	Ave	0.8119	0.8035	0.0100	9.90	10.0	-1.0	20.0
tert-Butylbenzene	Ave	2.378	2.080	0.0100	8.75	10.0	-12.5	20.0
1,2,4-Trimethylbenzene	Ave	3.078	2.819	0.0100	9.16	10.0	-8.4	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.8719	0.9023	0.0100	10.3	10.0	3.5	20.0
sec-Butylbenzene	Ave	3.550	3.301	0.0100	9.30	10.0	-7.0	20.0
1,3-Dichlorobenzene	Ave	1.570	1.489	0.6000	9.48	10.0	-5.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-155869/2 Calibration Date: 10/05/2015 10:05

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61005002.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
4-Isopropyltoluene	Ave	2.979	2.678	0.0100	8.99	10.0	-10.1	20.0
1,4-Dichlorobenzene	Ave	1.605	1.507	0.5000	9.39	10.0	-6.1	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.8674	0.8648	0.0100	9.97	10.0	-0.3	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.9687	0.9676	0.0100	9.99	10.0	-0.1	20.0
n-Butylbenzene	Ave	2.974	2.531	0.0100	8.51	10.0	-14.9	20.0
1,2-Dichlorobenzene	Ave	1.585	1.469	0.4000	9.27	10.0	-7.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1454	0.1114	0.0500	7.66	10.0	-23.4*	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.380	1.223	0.0100	26.6	30.0	-11.4	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.522	1.320	0.0100	17.3	20.0	-13.3	20.0
1,2,4-Trichlorobenzene	Ave	1.229	1.048	0.2000	8.53	10.0	-14.7	20.0
Hexachlorobutadiene	Ave	0.4839	0.4797	0.0100	9.91	10.0	-0.9	20.0
Naphthalene	Ave	2.479	2.057	0.0100	8.30	10.0	-17.0	20.0
1,2,3-Trichlorobenzene	Ave	1.150	0.9717	0.0100	8.45	10.0	-15.5	20.0
2,4,5-Trichlorotoluene	Ave	0.7719	0.5927	0.0100	7.68	10.0	-23.2*	20.0
2,3,6-Trichlorotoluene	Ave	0.7323	0.6544	0.0100	8.94	10.0	-10.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2303	0.2123		9.22	10.0	-7.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3715	0.3434		9.24	10.0	-7.6	20.0
Toluene-d8 (Surr)	Ave	3.944	3.998		10.1	10.0	1.4	20.0
4-Bromofluorobenzene (Surr)	Ave	1.751	1.580		9.02	10.0	-9.8	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Oct-2015 10:05:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008826-002
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 05-Oct-2015 10:57:51 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: fergusond Date: 05-Oct-2015 10:27:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.239	4.239	0.000	87	149860	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.286	0.000	97	445228	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.395	10.395	0.000	90	102974	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.749	0.000	94	183514	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.550	6.550	0.000	93	94520	50.0	46.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.928	6.928	0.000	72	152894	50.0	46.2	
$ 7 Toluene-d8 (Surr)	98	8.941	8.941	0.000	94	411639	50.0	50.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.587	0.000	86	162726	50.0	45.1	
11 Dichlorodifluoromethane	85	1.604	1.604	0.000	99	145387	50.0	47.2	
12 Chloromethane	50	1.769	1.769	0.000	100	142139	50.0	53.5	
13 Vinyl chloride	62	1.903	1.903	0.000	98	143274	50.0	50.1	
14 Butadiene	39	1.939	1.939	0.000	96	150499	50.0	56.1	
15 Bromomethane	94	2.243	2.243	0.000	90	67660	50.0	43.8	
16 Chloroethane	64	2.377	2.377	0.000	98	94344	50.0	48.3	
17 Dichlorofluoromethane	67	2.651	2.651	0.000	97	209329	50.0	46.0	
18 Trichlorofluoromethane	101	2.681	2.681	0.000	83	167984	50.0	46.3	
20 Ethyl ether	59	3.046	3.046	0.000	94	132067	50.0	51.4	
21 Acrolein	56	3.211	3.211	0.000	98	40943	150.0	146.1	
22 1,1-Dichloroethene	96	3.326	3.326	0.000	95	107642	50.0	48.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.405	3.405	0.000	93	120825	50.0	51.1	
24 Acetone	43	3.430	3.430	0.000	96	82076	100.0	104.2	
25 Iodomethane	142	3.533	3.533	0.000	99	155817	50.0	51.8	
26 Carbon disulfide	76	3.630	3.630	0.000	100	287823	50.0	49.6	
29 3-Chloro-1-propene	76	3.910	3.910	0.000	61	59804	50.0	47.3	
30 Methyl acetate	43	3.922	3.922	0.000	97	534678	250.0	289.5	
31 Methylene Chloride	84	4.117	4.117	0.000	97	141037	50.0	44.9	
32 2-Methyl-2-propanol	59	4.366	4.366	0.000	88	90205	500.0	534.9	
33 Acrylonitrile	53	4.500	4.500	0.000	99	526520	500.0	565.5	
34 trans-1,2-Dichloroethene	96	4.555	4.555	0.000	93	119992	50.0	46.4	
35 Methyl tert-butyl ether	73	4.573	4.573	0.000	97	339729	50.0	43.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.987	4.987	0.000	95	195562	50.0	55.8	
37 1,1-Dichloroethane	63	5.194	5.194	0.000	97	231319	50.0	50.0	
38 Vinyl acetate	43	5.236	5.236	0.000	98	174274	50.0	46.6	
42 2,2-Dichloropropane	77	5.936	5.936	0.000	59	108442	50.0	46.3	
43 cis-1,2-Dichloroethene	96	5.942	5.942	0.000	85	126254	50.0	44.9	
44 2-Butanone (MEK)	43	5.948	5.948	0.000	65	111673	100.0	103.9	
48 Chlorobromomethane	128	6.228	6.228	0.000	96	59417	50.0	52.6	
49 Tetrahydrofuran	42	6.246	6.246	0.000	88	80122	100.0	110.7	
50 Chloroform	83	6.368	6.368	0.000	96	219773	50.0	47.8	
51 1,1,1-Trichloroethane	97	6.532	6.532	0.000	98	167890	50.0	49.4	
52 Cyclohexane	56	6.617	6.617	0.000	94	235075	50.0	54.0	
53 Carbon tetrachloride	117	6.715	6.715	0.000	97	136353	50.0	56.8	
54 1,1-Dichloropropene	75	6.727	6.727	0.000	92	182462	50.0	50.0	
55 Isobutyl alcohol	41	6.897	6.897	0.000	90	87408	1250.0	1357.0	
56 Benzene	78	6.940	6.940	0.000	97	546342	50.0	52.7	
57 1,2-Dichloroethane	62	7.013	7.013	0.000	98	205218	50.0	49.1	
59 n-Heptane	43	7.305	7.305	0.000	93	194249	50.0	68.9	
61 Trichloroethene	130	7.676	7.676	0.000	96	116121	50.0	53.7	
63 Methylcyclohexane	83	7.925	7.925	0.000	94	216407	50.0	49.3	
64 1,2-Dichloropropane	63	7.950	7.950	0.000	95	135796	50.0	54.8	
65 1,4-Dioxane	88	8.023	8.023	0.000	41	23617	1000.0	965.2	M
67 Dibromomethane	93	8.035	8.035	0.000	95	74144	50.0	49.3	
68 Dichlorobromomethane	83	8.229	8.229	0.000	97	143403	50.0	50.7	
71 cis-1,3-Dichloropropene	75	8.680	8.680	0.000	91	162231	50.0	52.2	
72 4-Methyl-2-pentanone (MIBK	43	8.826	8.826	0.000	97	198428	100.0	93.7	
73 Toluene	91	9.008	9.008	0.000	98	544645	50.0	51.3	
74 trans-1,3-Dichloropropene	75	9.257	9.257	0.000	96	145751	50.0	54.0	
75 Ethyl methacrylate	69	9.312	9.312	0.000	91	135458	50.0	47.3	
76 1,1,2-Trichloroethane	97	9.452	9.452	0.000	93	110566	50.0	50.3	
77 Tetrachloroethene	164	9.525	9.525	0.000	96	103128	50.0	56.9	
78 1,3-Dichloropropane	76	9.610	9.610	0.000	95	205404	50.0	50.6	
79 2-Hexanone	43	9.659	9.659	0.000	97	156415	100.0	112.5	
81 Chlorodibromomethane	129	9.823	9.823	0.000	90	88947	50.0	59.3	
82 Ethylene Dibromide	107	9.939	9.939	0.000	96	99591	50.0	51.2	
83 3-Chlorobenzotrifluoride	180	10.395	10.395	0.000	94	186813	50.0	54.9	
84 Chlorobenzene	112	10.426	10.426	0.000	92	335591	50.0	51.4	
85 4-Chlorobenzotrifluoride	180	10.486	10.486	0.000	96	174827	50.0	55.4	
86 1,1,1,2-Tetrachloroethane	131	10.523	10.523	0.000	89	103492	50.0	57.8	
87 Ethylbenzene	106	10.529	10.529	0.000	99	192925	50.0	52.4	
88 m-Xylene & p-Xylene	106	10.657	10.657	0.000	99	240680	50.0	52.6	
89 o-Xylene	106	11.040	11.040	0.000	96	228827	50.0	50.0	
90 Styrene	104	11.058	11.058	0.000	94	378546	50.0	53.9	
91 Bromoform	173	11.247	11.247	0.000	95	46207	50.0	57.7	
92 2-Chlorobenzotrifluoride	180	11.302	11.302	0.000	96	189760	50.0	54.5	
93 Isopropylbenzene	105	11.411	11.411	0.000	97	564732	50.0	51.6	
96 1,1,2,2-Tetrachloroethane	83	11.715	11.715	0.000	97	139023	50.0	47.3	
95 Bromobenzene	156	11.727	11.727	0.000	98	144768	50.0	49.1	
97 trans-1,4-Dichloro-2-buten	53	11.758	11.758	0.000	73	42869	50.0	45.8	
98 1,2,3-Trichloropropane	110	11.776	11.776	0.000	83	45984	50.0	41.0	
99 N-Propylbenzene	120	11.825	11.825	0.000	99	155216	50.0	45.7	
100 2-Chlorotoluene	126	11.916	11.916	0.000	96	134189	50.0	47.6	
101 3-Chlorotoluene	126	11.977	11.977	0.000	96	143898	50.0	48.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.007	12.007	0.000	93	512352	50.0	46.4	
103 4-Chlorotoluene	126	12.038	12.038	0.000	99	147458	50.0	49.5	
104 tert-Butylbenzene	119	12.324	12.324	0.000	92	381792	50.0	43.7	
106 1,2,4-Trimethylbenzene	105	12.384	12.384	0.000	98	517242	50.0	45.8	
107 1,2-dichloro-4-(trifluorom	214	12.421	12.421	0.000	97	165580	50.0	51.7	
108 sec-Butylbenzene	105	12.549	12.549	0.000	96	605807	50.0	46.5	
109 1,3-Dichlorobenzene	146	12.670	12.670	0.000	96	273225	50.0	47.4	
110 4-Isopropyltoluene	119	12.707	12.707	0.000	96	491498	50.0	45.0	
111 1,4-Dichlorobenzene	146	12.774	12.774	0.000	91	276633	50.0	47.0	
113 2,4-Dichloro-1-(triflourom	214	12.786	12.786	0.000	96	158707	50.0	49.9	
114 2,5-Dichlorobenzotrifluori	214	12.828	12.828	0.000	98	177573	50.0	49.9	
116 n-Butylbenzene	91	13.114	13.114	0.000	99	464471	50.0	42.6	
117 1,2-Dichlorobenzene	146	13.127	13.127	0.000	93	269602	50.0	46.3	
118 1,2-Dibromo-3-Chloropropan	75	13.917	13.911	0.006	72	20439	50.0	38.3	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.057	14.057	0.000	99	673332	150.0	133.0	
121 2,3- & 3,4- Dichlorotoluen	125	14.477	14.477	0.000	99	484599	100.0	86.7	
122 1,2,4-Trichlorobenzene	180	14.745	14.745	0.000	94	192313	50.0	42.7	
123 Hexachlorobutadiene	225	14.891	14.891	0.000	96	88024	50.0	49.6	
124 Naphthalene	128	15.006	15.006	0.000	98	377525	50.0	41.5	
125 1,2,3-Trichlorobenzene	180	15.225	15.225	0.000	94	178316	50.0	42.3	
126 2,4,5-Trichlorotoluene	159	16.010	16.010	0.000	0	108776	50.0	38.4	
127 2,3,6-Trichlorotoluene	159	16.107	16.107	0.000	96	120098	50.0	44.7	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 131 Xylenes, Total	106				0		100.0	102.7	
S 130 1,2-Dichloroethene, Total	96				0		100.0	91.3	
S 132 1,3-Dichloropropene, Total	1				0		100.0	106.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00147	Amount Added:	2.00	Units: uL	
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL	
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

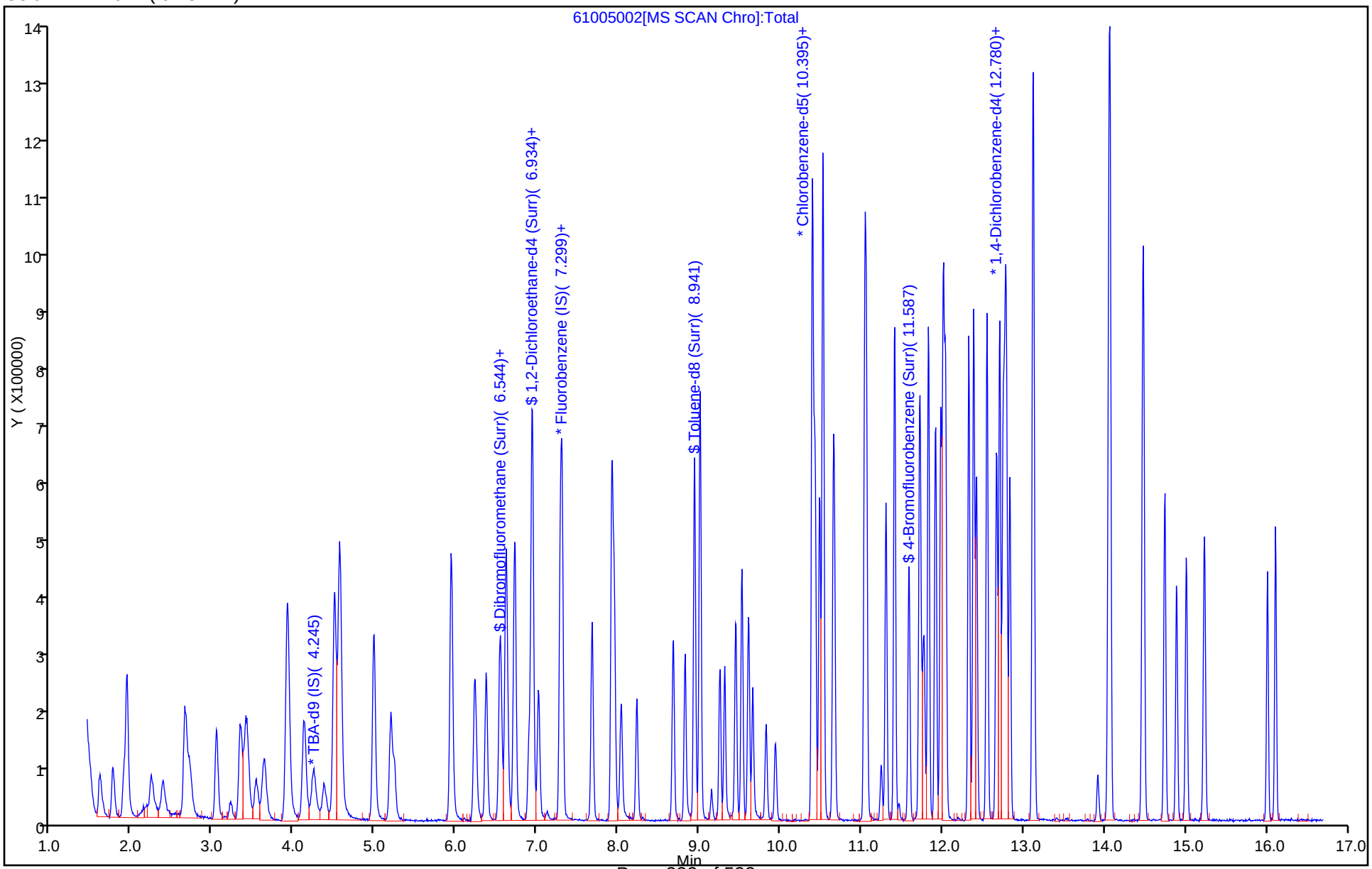
Report Date: 05-Oct-2015 10:57:52 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005002.D

Injection Date:	05-Oct-2015 10:05:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

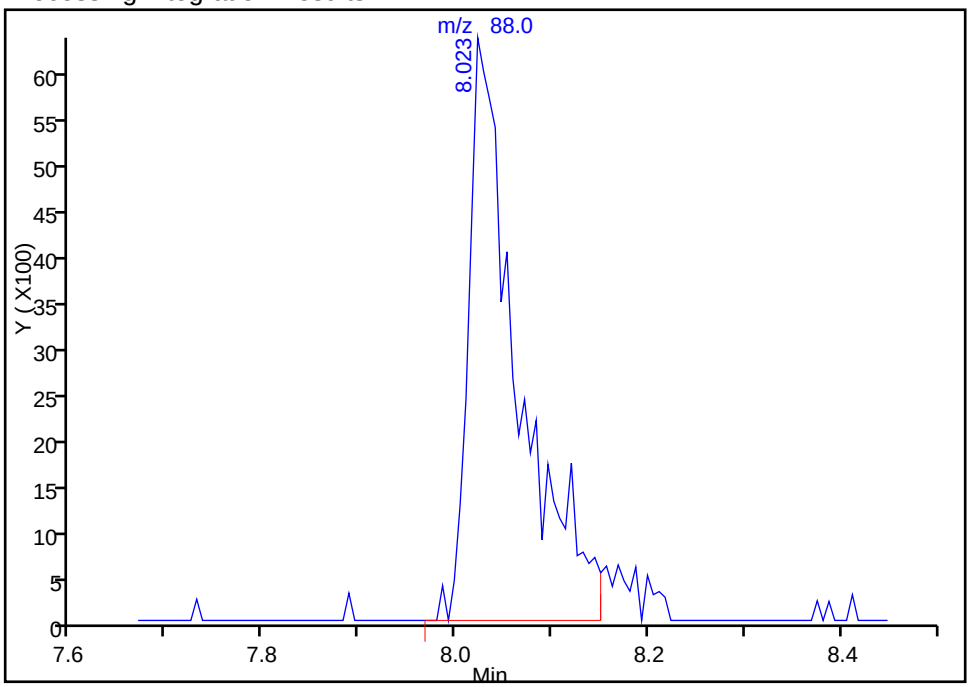
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005002.D
Injection Date: 05-Oct-2015 10:05:30 Instrument ID: CHHP6
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

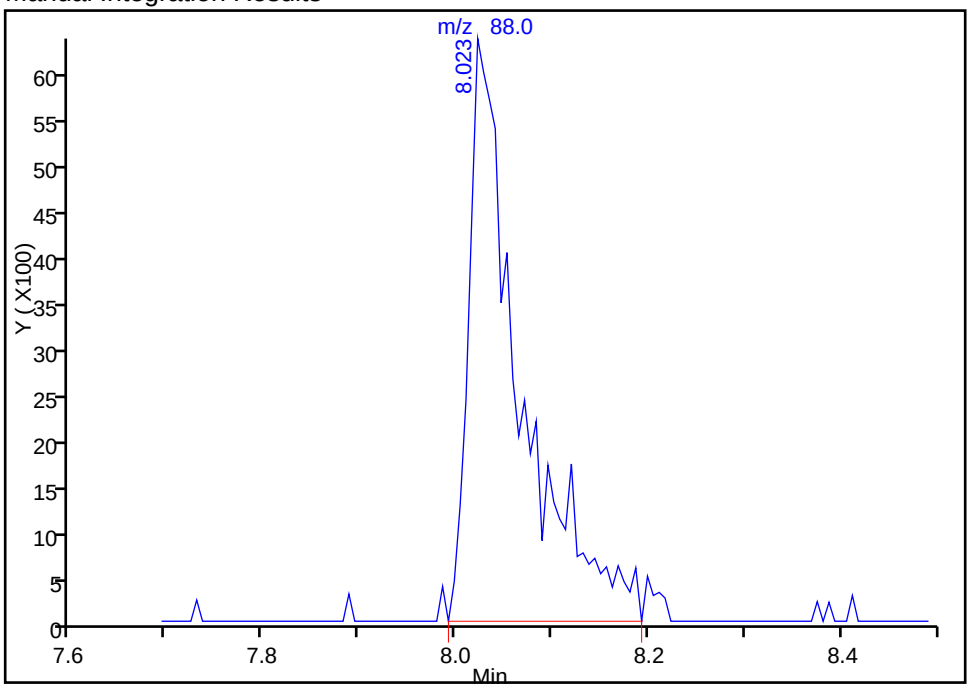
Processing Integration Results

RT: 8.02
Area: 22692
Amount: 927.4038
Amount Units: ng



Manual Integration Results

RT: 8.02
Area: 23617
Amount: 965.2078
Amount Units: ng



Reviewer: fergusond, 05-Oct-2015 10:27:02
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-156041/2 Calibration Date: 10/06/2015 12:10

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61006002.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	0.3462	0.3151	0.1000	9.10	10.0	-9.0	20.0
Chloromethane	Ave	0.2984	0.3302	0.1000	11.1	10.0	10.6	20.0
Vinyl chloride	Ave	0.3214	0.3371	0.1000	10.5	10.0	4.9	20.0
1,3-Butadiene	Ave	0.3013	0.3439	0.0100	11.4	10.0	14.1	20.0
Bromomethane	Ave	0.1735	0.1512	0.0500	8.72	10.0	-12.8	20.0
Chloroethane	Ave	0.2194	0.2185	0.0500	9.96	10.0	-0.4	20.0
Dichlorofluoromethane	Ave	0.5106	0.4822	0.0100	9.44	10.0	-5.6	20.0
Trichlorofluoromethane	Ave	0.4072	0.3974	0.1000	9.76	10.0	-2.4	20.0
Ethyl ether	Ave	0.2886	0.3071	0.0100	10.6	10.0	6.4	20.0
Acrolein	Ave	0.0315	0.0282	0.0100	26.8	30.0	-10.5	20.0
1,1-Dichloroethene	Ave	0.2517	0.2419	0.1000	9.61	10.0	-3.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2657	0.2704	0.1000	10.2	10.0	1.8	20.0
Acetone	Ave	0.0885	0.1070	0.0500	24.2	20.0	21.0*	20.0
Iodomethane	Ave	0.3379	0.3461	0.0100	10.2	10.0	2.4	20.0
Carbon disulfide	Ave	0.6522	0.6312	0.1000	9.68	10.0	-3.2	20.0
Allyl chloride	Ave	0.1419	0.1353	0.0100	9.53	10.0	-4.7	20.0
Methyl acetate	Ave	0.2074	0.2535	0.1000	61.1	50.0	22.2*	20.0
Methylene Chloride	Lin2		0.3230	0.1000	9.18	10.0	-8.2	20.0
tert-Butyl alcohol	Ave	1.125	1.182	0.0100	105	100	5.0	20.0
Acrylonitrile	Ave	0.1046	0.1220	0.0100	117	100	16.7	20.0
Methyl tert-butyl ether	Ave	0.8703	0.7575	0.1000	8.70	10.0	-13.0	20.0
trans-1,2-Dichloroethene	Ave	0.2905	0.2820	0.1000	9.71	10.0	-2.9	20.0
Hexane	Ave	0.3936	0.4450	0.0100	11.3	10.0	13.1	20.0
1,1-Dichloroethane	Ave	0.5200	0.5530	0.2000	10.6	10.0	6.4	20.0
Vinyl acetate	Ave	0.4197	0.3879	0.0100	9.24	10.0	-7.6	20.0
2,2-Dichloropropane	Ave	0.2629	0.2599	0.0100	9.89	10.0	-1.1	20.0
2-Butanone (MEK)	Ave	0.1207	0.1452	0.0500	24.1	20.0	20.3*	20.0
cis-1,2-Dichloroethene	Ave	0.3158	0.2998	0.1000	9.49	10.0	-5.1	20.0
Bromochloromethane	Ave	0.1269	0.1388	0.0100	10.9	10.0	9.4	20.0
Tetrahydrofuran	Ave	0.0813	0.0928	0.0100	22.8	20.0	14.1	20.0
Chloroform	Ave	0.5161	0.5049	0.2000	9.78	10.0	-2.2	20.0
1,1,1-Trichloroethane	Ave	0.3814	0.3653	0.1000	9.58	10.0	-4.2	20.0
Cyclohexane	Ave	0.4886	0.5473	0.1000	11.2	10.0	12.0	20.0
Carbon tetrachloride	Ave	0.2694	0.2976	0.1000	11.0	10.0	10.5	20.0
1,1-Dichloropropene	Ave	0.4102	0.4279	0.0100	10.4	10.0	4.3	20.0
Isobutyl alcohol	Ave	0.0072	0.0089*	0.0100	306	250	22.3*	20.0
Benzene	Ave	1.165	1.277	0.5000	11.0	10.0	9.6	20.0
1,2-Dichloroethane	Ave	0.4694	0.4629	0.1000	9.86	10.0	-1.4	20.0
n-Heptane	Ave	0.3168	0.4336	0.0100	13.7	10.0	36.8*	20.0
Trichloroethene	Ave	0.2430	0.2715	0.2000	11.2	10.0	11.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-156041/2 Calibration Date: 10/06/2015 12:10

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61006002.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	0.4932	0.4955	0.1000	10.0	10.0	0.5	20.0
1,2-Dichloropropane	Ave	0.2784	0.3211	0.1000	11.5	10.0	15.3	20.0
1,4-Dioxane	Ave	0.0027	0.0030*	0.0100	221	200	10.3	20.0
Dibromomethane	Ave	0.1690	0.1721	0.0100	10.2	10.0	1.8	20.0
Bromodichloromethane	Ave	0.3176	0.3146	0.2000	9.90	10.0	-1.0	20.0
cis-1,3-Dichloropropene	Ave	0.3489	0.3582	0.2000	10.3	10.0	2.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.028	1.009	0.1000	19.6	20.0	-1.8	20.0
Toluene	Ave	5.159	5.450	0.4000	10.6	10.0	5.6	20.0
trans-1,3-Dichloropropene	Ave	1.310	1.328	0.1000	10.1	10.0	1.4	20.0
Ethyl methacrylate	Ave	1.391	1.342	0.0100	9.64	10.0	-3.6	20.0
1,1,2-Trichloroethane	Ave	1.067	1.070	0.1000	10.0	10.0	0.2	20.0
Tetrachloroethene	Ave	0.8800	1.049	0.2000	11.9	10.0	19.2	20.0
1,3-Dichloropropane	Ave	1.971	2.055	0.0100	10.4	10.0	4.2	20.0
2-Hexanone	Ave	0.6750	0.8088	0.1000	24.0	20.0	19.8	20.0
Dibromochloromethane	Ave	0.7283	0.8015	0.1000	11.0	10.0	10.1	20.0
1,2-Dibromoethane (EDB)	Ave	0.9442	0.9768	0.1000	10.3	10.0	3.5	20.0
3-Chlorobenzotrifluoride	Ave	1.652	1.843	0.0100	11.2	10.0	11.6	20.0
Chlorobenzene	Ave	3.171	3.402	0.5000	10.7	10.0	7.3	20.0
4-Chlorobenzotrifluoride	Ave	1.531	1.827	0.0100	11.9	10.0	19.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8691	0.9796	0.0100	11.3	10.0	12.7	20.0
Ethylbenzene	Ave	1.789	1.877	0.1000	10.5	10.0	5.0	20.0
m-Xylene & p-Xylene	Ave	2.220	2.360	0.1000	10.6	10.0	6.3	20.0
o-Xylene	Ave	2.221	2.267	0.3000	10.2	10.0	2.1	20.0
Styrene	Ave	3.411	3.816	0.3000	11.2	10.0	11.9	20.0
Bromoform	Ave	0.3887	0.4235	0.1000	10.9	10.0	8.9	20.0
2-Chlorobenzotrifluoride	Ave	1.692	1.871	0.0100	11.1	10.0	10.6	20.0
Isopropylbenzene	Ave	5.314	5.585	0.1000	10.5	10.0	5.1	20.0
1,1,2,2-Tetrachloroethane	Ave	1.428	1.352	0.3000	9.47	10.0	-5.3	20.0
Bromobenzene	Ave	0.8038	0.8087	0.0100	10.1	10.0	0.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2549	0.2434	0.0100	9.55	10.0	-4.5	20.0
1,2,3-Trichloropropane	Ave	0.3057	0.2613	0.0100	8.55	10.0	-14.5	20.0
N-Propylbenzene	Ave	0.9257	0.9241	0.0100	9.98	10.0	-0.2	20.0
2-Chlorotoluene	Ave	0.7686	0.7522	0.0100	9.79	10.0	-2.1	20.0
3-Chlorotoluene	Ave	0.8072	0.8333	0.0100	10.3	10.0	3.2	20.0
1,3,5-Trimethylbenzene	Ave	3.010	2.978	0.0100	9.89	10.0	-1.1	20.0
4-Chlorotoluene	Ave	0.8119	0.8404	0.0100	10.4	10.0	3.5	20.0
tert-Butylbenzene	Ave	2.378	2.187	0.0100	9.20	10.0	-8.0	20.0
1,2,4-Trimethylbenzene	Ave	3.078	2.971	0.0100	9.65	10.0	-3.5	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.8719	0.9450	0.0100	10.8	10.0	8.4	20.0
sec-Butylbenzene	Ave	3.550	3.473	0.0100	9.78	10.0	-2.2	20.0
1,3-Dichlorobenzene	Ave	1.570	1.549	0.6000	9.86	10.0	-1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-156041/2 Calibration Date: 10/06/2015 12:10

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61006002.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
4-Isopropyltoluene	Ave	2.979	2.826	0.0100	9.49	10.0	-5.1	20.0
1,4-Dichlorobenzene	Ave	1.605	1.604	0.5000	10.0	10.0	-0.0	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.8674	0.9175	0.0100	10.6	10.0	5.8	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.9687	1.042	0.0100	10.8	10.0	7.5	20.0
n-Butylbenzene	Ave	2.974	2.629	0.0100	8.84	10.0	-11.6	20.0
1,2-Dichlorobenzene	Ave	1.585	1.543	0.4000	9.73	10.0	-2.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1454	0.1199	0.0500	8.25	10.0	-17.5	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.380	1.299	0.0100	28.2	30.0	-5.9	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.522	1.407	0.0100	18.5	20.0	-7.6	20.0
1,2,4-Trichlorobenzene	Ave	1.229	1.100	0.2000	8.95	10.0	-10.5	20.0
Hexachlorobutadiene	Ave	0.4839	0.4870	0.0100	10.1	10.0	0.6	20.0
Naphthalene	Ave	2.479	2.132	0.0100	8.60	10.0	-14.0	20.0
1,2,3-Trichlorobenzene	Ave	1.150	1.009	0.0100	8.78	10.0	-12.2	20.0
2,4,5-Trichlorotoluene	Ave	0.7719	0.6224	0.0100	8.06	10.0	-19.4	20.0
2,3,6-Trichlorotoluene	Ave	0.7323	0.6629	0.0100	9.05	10.0	-9.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2303	0.2226		9.67	10.0	-3.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3715	0.3528		9.50	10.0	-5.0	20.0
Toluene-d8 (Surr)	Ave	3.944	4.115		10.4	10.0	4.3	20.0
4-Bromofluorobenzene (Surr)	Ave	1.751	1.608		9.18	10.0	-8.2	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Oct-2015 12:10:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008851-002
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 06-Oct-2015 12:48:11 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: fergusond Date: 06-Oct-2015 12:46:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.244	4.244	0.000	88	154315	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.286	0.000	97	452992	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.395	10.395	0.000	90	106914	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.749	0.000	94	183046	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.556	0.000	94	100854	50.0	48.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.933	0.000	66	159824	50.0	47.5	
$ 7 Toluene-d8 (Surr)	98	8.941	8.941	0.000	94	439944	50.0	52.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.581	11.581	0.000	86	171892	50.0	45.9	
11 Dichlorodifluoromethane	85	1.610	1.610	0.000	100	142717	50.0	45.5	
12 Chloromethane	50	1.774	1.774	0.000	99	149561	50.0	55.3	
13 Vinyl chloride	62	1.902	1.902	0.000	98	152686	50.0	52.4	
14 Butadiene	39	1.945	1.945	0.000	92	155793	50.0	57.1	
15 Bromomethane	94	2.249	2.249	0.000	92	68510	50.0	43.6	
16 Chloroethane	64	2.389	2.389	0.000	99	98968	50.0	49.8	
17 Dichlorofluoromethane	67	2.657	2.657	0.000	97	218424	50.0	47.2	
18 Trichlorofluoromethane	101	2.699	2.699	0.000	81	180004	50.0	48.8	
20 Ethyl ether	59	3.046	3.046	0.000	93	139109	50.0	53.2	
21 Acrolein	56	3.222	3.222	0.000	99	38287	150.0	134.2	
22 1,1-Dichloroethene	96	3.338	3.338	0.000	94	109580	50.0	48.1	
23 1,1,2-Trichloro-1,2,2-trif	101	3.411	3.411	0.000	92	122494	50.0	50.9	
24 Acetone	43	3.423	3.423	0.000	99	96948	100.0	121.0	
25 Iodomethane	142	3.539	3.539	0.000	99	156788	50.0	51.2	
26 Carbon disulfide	76	3.630	3.630	0.000	100	285925	50.0	48.4	
29 3-Chloro-1-propene	76	3.916	3.916	0.000	89	61265	50.0	47.7	
30 Methyl acetate	43	3.928	3.928	0.000	98	574132	250.0	305.5	
31 Methylene Chloride	84	4.129	4.129	0.000	97	146297	50.0	45.9	
32 2-Methyl-2-propanol	59	4.384	4.384	0.000	91	91207	500.0	525.2	
33 Acrylonitrile	53	4.500	4.500	0.000	98	552629	500.0	583.4	
35 Methyl tert-butyl ether	73	4.567	4.567	0.000	97	343140	50.0	43.5	
34 trans-1,2-Dichloroethene	96	4.567	4.567	0.000	92	127748	50.0	48.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.993	4.993	0.000	94	201600	50.0	56.5	
37 1,1-Dichloroethane	63	5.193	5.193	0.000	97	250514	50.0	53.2	
38 Vinyl acetate	43	5.242	5.242	0.000	98	175722	50.0	46.2	
43 cis-1,2-Dichloroethene	96	5.942	5.942	0.000	85	135810	50.0	47.5	
44 2-Butanone (MEK)	43	5.942	5.942	0.000	66	131524	100.0	120.3	
42 2,2-Dichloropropane	77	5.942	5.942	0.000	60	117731	50.0	49.4	
48 Chlorobromomethane	128	6.228	6.228	0.000	94	62892	50.0	54.7	
49 Tetrahydrofuran	42	6.240	6.240	0.000	89	84083	100.0	114.1	
50 Chloroform	83	6.374	6.374	0.000	95	228692	50.0	48.9	
51 1,1,1-Trichloroethane	97	6.538	6.538	0.000	97	165465	50.0	47.9	
52 Cyclohexane	56	6.617	6.617	0.000	95	247921	50.0	56.0	
53 Carbon tetrachloride	117	6.714	6.714	0.000	97	134824	50.0	55.2	
54 1,1-Dichloropropene	75	6.726	6.726	0.000	94	193851	50.0	52.2	
55 Isobutyl alcohol	41	6.903	6.903	0.000	90	100195	1250.0	1528.8	
56 Benzene	78	6.939	6.939	0.000	97	578357	50.0	54.8	
57 1,2-Dichloroethane	62	7.018	7.018	0.000	98	209678	50.0	49.3	
59 n-Heptane	43	7.310	7.310	0.000	93	196394	50.0	68.4	
61 Trichloroethene	130	7.675	7.675	0.000	96	123005	50.0	55.9	
63 Methylcyclohexane	83	7.925	7.925	0.000	93	224440	50.0	50.2	
64 1,2-Dichloropropane	63	7.949	7.949	0.000	94	145439	50.0	57.7	
67 Dibromomethane	93	8.034	8.034	0.000	95	77943	50.0	50.9	
65 1,4-Dioxane	88	8.034	8.034	0.000	38	27453	1000.0	1102.8	M
68 Dichlorobromomethane	83	8.229	8.229	0.000	98	142518	50.0	49.5	
71 cis-1,3-Dichloropropene	75	8.673	8.673	0.000	91	162246	50.0	51.3	
72 4-Methyl-2-pentanone (MIBK	43	8.825	8.825	0.000	98	215858	100.0	98.2	
73 Toluene	91	9.008	9.008	0.000	98	582710	50.0	52.8	
74 trans-1,3-Dichloropropene	75	9.251	9.251	0.000	97	141954	50.0	50.7	
75 Ethyl methacrylate	69	9.312	9.312	0.000	90	143445	50.0	48.2	
76 1,1,2-Trichloroethane	97	9.452	9.452	0.000	95	114350	50.0	50.1	
77 Tetrachloroethene	164	9.525	9.525	0.000	97	112114	50.0	59.6	
78 1,3-Dichloropropane	76	9.610	9.610	0.000	95	219672	50.0	52.1	
79 2-Hexanone	43	9.659	9.659	0.000	97	172944	100.0	119.8	
81 Chlorodibromomethane	129	9.823	9.823	0.000	90	85694	50.0	55.0	
82 Ethylene Dibromide	107	9.938	9.938	0.000	98	104428	50.0	51.7	
83 3-Chlorobenzotrifluoride	180	10.395	10.395	0.000	91	197055	50.0	55.8	
84 Chlorobenzene	112	10.425	10.425	0.000	92	363706	50.0	53.6	
85 4-Chlorobenzotrifluoride	180	10.486	10.486	0.000	96	195342	50.0	59.7	
86 1,1,1,2-Tetrachloroethane	131	10.522	10.522	0.000	88	104733	50.0	56.4	
87 Ethylbenzene	106	10.529	10.529	0.000	99	200730	50.0	52.5	
88 m-Xylene & p-Xylene	106	10.662	10.662	0.000	99	252267	50.0	53.1	
89 o-Xylene	106	11.040	11.040	0.000	97	242415	50.0	51.0	
90 Styrene	104	11.058	11.058	0.000	94	407978	50.0	55.9	
91 Bromoform	173	11.246	11.246	0.000	96	45278	50.0	54.5	
92 2-Chlorobenzotrifluoride	180	11.301	11.301	0.000	96	200035	50.0	55.3	
93 Isopropylbenzene	105	11.411	11.411	0.000	98	597119	50.0	52.5	
96 1,1,2,2-Tetrachloroethane	83	11.715	11.715	0.000	96	144561	50.0	47.4	
95 Bromobenzene	156	11.721	11.721	0.000	97	148029	50.0	50.3	
97 trans-1,4-Dichloro-2-buten	53	11.751	11.751	0.000	74	44560	50.0	47.7	
98 1,2,3-Trichloropropane	110	11.770	11.770	0.000	85	47832	50.0	42.7	
99 N-Propylbenzene	120	11.824	11.824	0.000	98	169150	50.0	49.9	
100 2-Chlorotoluene	126	11.916	11.916	0.000	94	137690	50.0	48.9	
101 3-Chlorotoluene	126	11.983	11.983	0.000	97	152527	50.0	51.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.013	12.013	0.000	93	545095	50.0	49.5	
103 4-Chlorotoluene	126	12.037	12.037	0.000	99	153838	50.0	51.8	
104 tert-Butylbenzene	119	12.329	12.329	0.000	92	400290	50.0	46.0	
106 1,2,4-Trimethylbenzene	105	12.384	12.384	0.000	98	543885	50.0	48.3	
107 1,2-dichloro-4-(trifluorom	214	12.421	12.421	0.000	98	172980	50.0	54.2	
108 sec-Butylbenzene	105	12.548	12.548	0.000	96	635633	50.0	48.9	
109 1,3-Dichlorobenzene	146	12.670	12.670	0.000	96	283457	50.0	49.3	
110 4-Isopropyltoluene	119	12.706	12.706	0.000	96	517253	50.0	47.4	
111 1,4-Dichlorobenzene	146	12.767	12.767	0.000	89	293678	50.0	50.0	
113 2,4-Dichloro-1-(triflourom	214	12.792	12.792	0.000	96	167948	50.0	52.9	
114 2,5-Dichlorobenzotrifluori	214	12.834	12.834	0.000	97	190679	50.0	53.8	
116 n-Butylbenzene	91	13.114	13.114	0.000	98	481268	50.0	44.2	
117 1,2-Dichlorobenzene	146	13.126	13.126	0.000	93	282391	50.0	48.7	
118 1,2-Dibromo-3-Chloropropan	75	13.917	13.917	0.000	71	21938	50.0	41.2	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.063	14.063	0.000	99	713104	150.0	141.2	
121 2,3- & 3,4- Dichlorotoluen	125	14.477	14.477	0.000	99	515111	100.0	92.4	
122 1,2,4-Trichlorobenzene	180	14.744	14.744	0.000	94	201376	50.0	44.8	
123 Hexachlorobutadiene	225	14.890	14.890	0.000	96	89134	50.0	50.3	
124 Naphthalene	128	15.006	15.006	0.000	98	390207	50.0	43.0	
125 1,2,3-Trichlorobenzene	180	15.231	15.231	0.000	95	184783	50.0	43.9	
126 2,4,5-Trichlorotoluene	159	16.010	16.010	0.000	0	113934	50.0	40.3	
127 2,3,6-Trichlorotoluene	159	16.107	16.107	0.000	95	121349	50.0	45.3	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	96.0	
S 131 Xylenes, Total	106				0		100.0	104.2	
S 132 1,3-Dichloropropene, Total	1				0		100.0	102.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00147	Amount Added:	2.00	Units: uL		
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL		
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL		
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent	
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent	

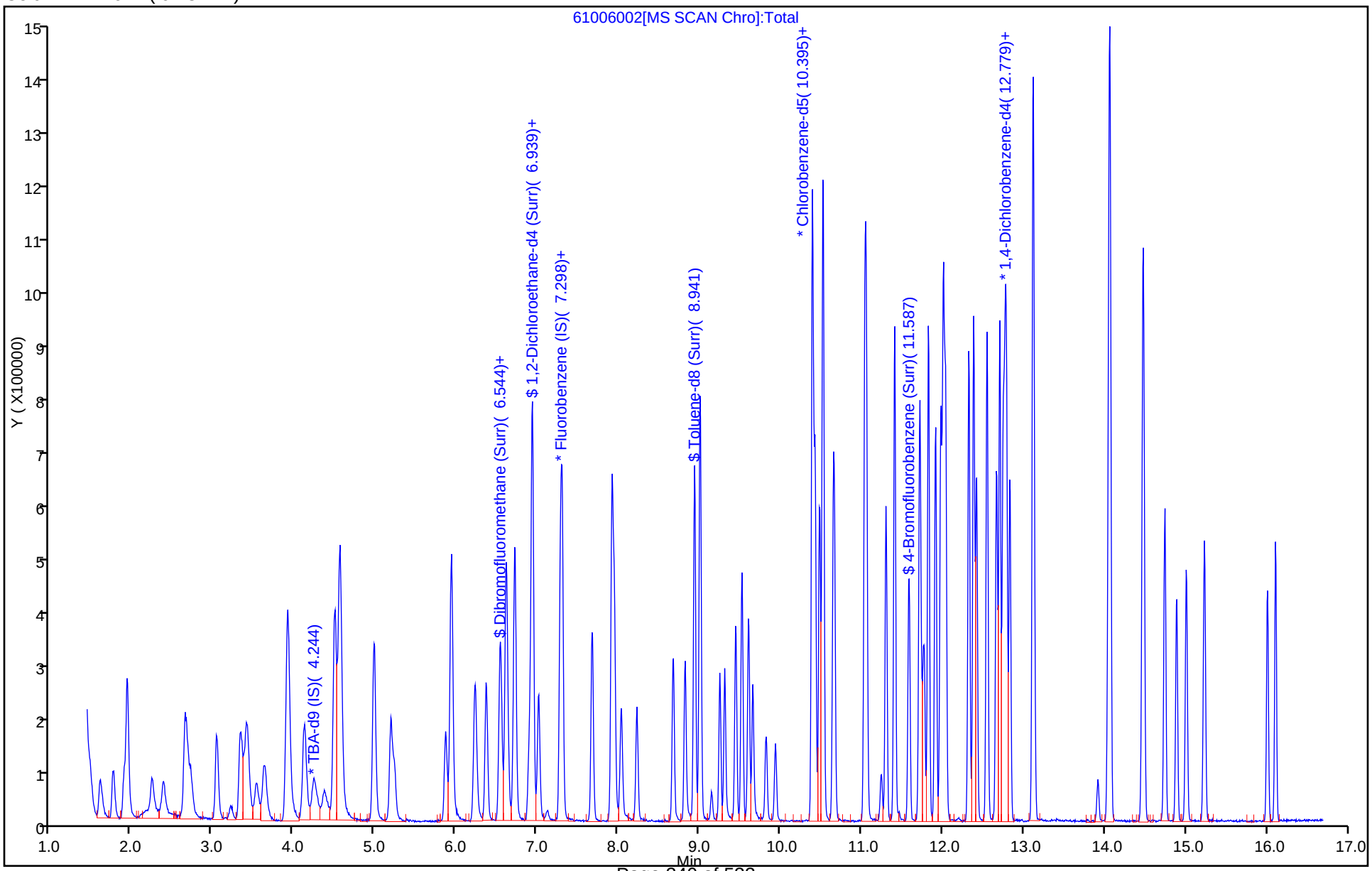
Report Date: 06-Oct-2015 12:48:12 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006002.D

Injection Date:	06-Oct-2015 12:10:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

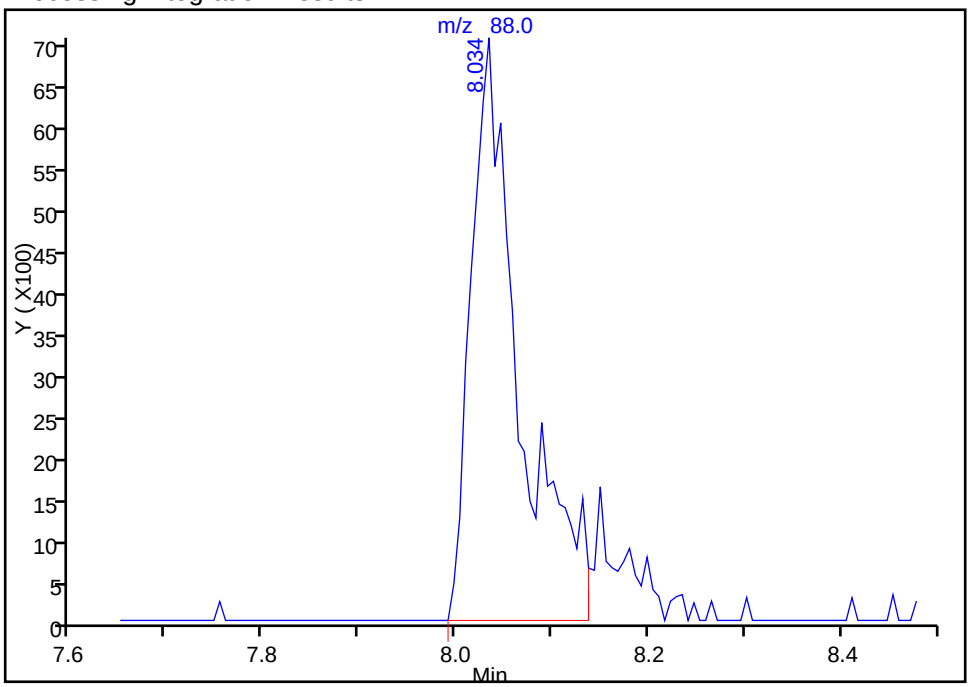
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006002.D
Injection Date: 06-Oct-2015 12:10:30 Instrument ID: CHHP6
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

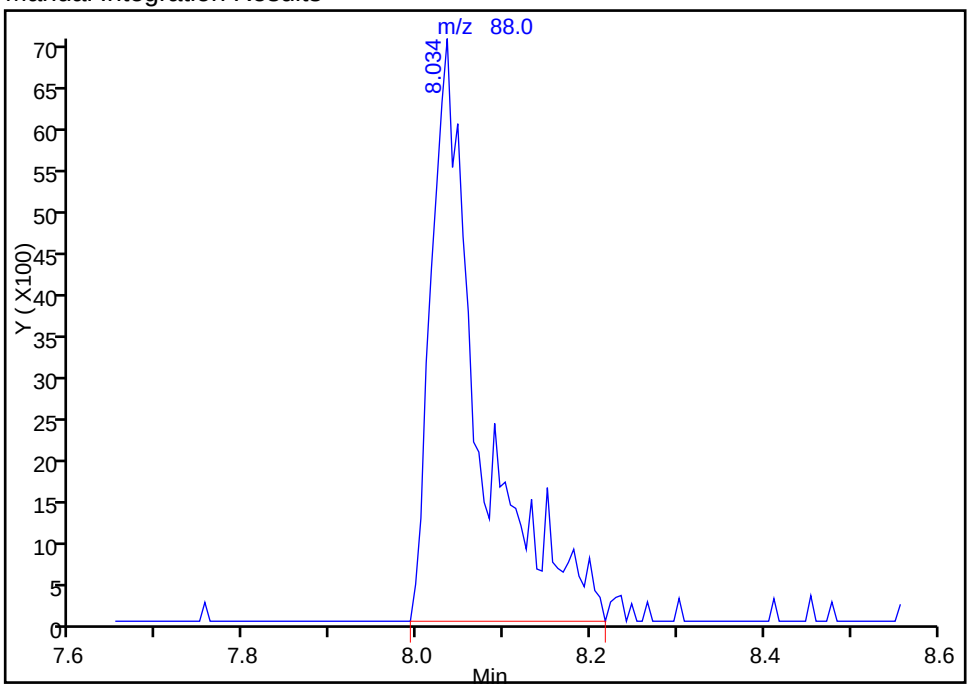
Processing Integration Results

RT: 8.03
Area: 24482
Amount: 983.4107
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 27453
Amount: 1102.7520
Amount Units: ng



Reviewer: fergusond, 06-Oct-2015 12:46:11
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-156189/2 Calibration Date: 10/07/2015 12:51

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61007002.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	0.3462	0.3170	0.1000	9.15	10.0	-8.5	20.0
Chloromethane	Ave	0.2984	0.3476	0.1000	11.6	10.0	16.5	20.0
Vinyl chloride	Ave	0.3214	0.3296	0.1000	10.3	10.0	2.5	20.0
1,3-Butadiene	Ave	0.3013	0.3533	0.0100	11.7	10.0	17.3	20.0
Bromomethane	Ave	0.1735	0.1357	0.0500	7.82	10.0	-21.8*	20.0
Chloroethane	Ave	0.2194	0.2083	0.0500	9.49	10.0	-5.1	20.0
Dichlorofluoromethane	Ave	0.5106	0.4946	0.0100	9.69	10.0	-3.1	20.0
Trichlorofluoromethane	Ave	0.4072	0.3592	0.1000	8.82	10.0	-11.8	20.0
Ethyl ether	Ave	0.2886	0.3154	0.0100	10.9	10.0	9.3	20.0
Acrolein	Ave	0.0315	0.0291	0.0100	27.7	30.0	-7.5	20.0
1,1-Dichloroethene	Ave	0.2517	0.2446	0.1000	9.72	10.0	-2.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2657	0.2618	0.1000	9.85	10.0	-1.5	20.0
Acetone	Ave	0.0885	0.1034	0.0500	23.4	20.0	16.9	20.0
Iodomethane	Ave	0.3379	0.3425	0.0100	10.1	10.0	1.4	20.0
Carbon disulfide	Ave	0.6522	0.6393	0.1000	9.80	10.0	-2.0	20.0
Allyl chloride	Ave	0.1419	0.1347	0.0100	9.49	10.0	-5.1	20.0
Methyl acetate	Ave	0.2074	0.2576	0.1000	62.1	50.0	24.2*	20.0
Methylene Chloride	Lin2		0.3484	0.1000	9.99	10.0	-0.0	20.0
tert-Butyl alcohol	Ave	1.125	1.176	0.0100	105	100	4.5	20.0
Acrylonitrile	Ave	0.1046	0.1293	0.0100	124	100	23.6*	20.0
trans-1,2-Dichloroethene	Ave	0.2905	0.2811	0.1000	9.68	10.0	-3.2	20.0
Methyl tert-butyl ether	Ave	0.8703	0.7819	0.1000	8.98	10.0	-10.2	20.0
Hexane	Ave	0.3936	0.4274	0.0100	10.9	10.0	8.6	20.0
1,1-Dichloroethane	Ave	0.5200	0.5466	0.2000	10.5	10.0	5.1	20.0
Vinyl acetate	Ave	0.4197	0.4131	0.0100	9.84	10.0	-1.6	20.0
cis-1,2-Dichloroethene	Ave	0.3158	0.3085	0.1000	9.77	10.0	-2.3	20.0
2,2-Dichloropropane	Ave	0.2629	0.2419	0.0100	9.20	10.0	-8.0	20.0
2-Butanone (MEK)	Ave	0.1207	0.1425	0.0500	23.6	20.0	18.1	20.0
Bromochloromethane	Ave	0.1269	0.1345	0.0100	10.6	10.0	6.0	20.0
Tetrahydrofuran	Ave	0.0813	0.0966	0.0100	23.8	20.0	18.8	20.0
Chloroform	Ave	0.5161	0.5096	0.2000	9.87	10.0	-1.3	20.0
1,1,1-Trichloroethane	Ave	0.3814	0.3706	0.1000	9.72	10.0	-2.8	20.0
Cyclohexane	Ave	0.4886	0.5374	0.1000	11.0	10.0	10.0	20.0
Carbon tetrachloride	Ave	0.2694	0.2912	0.1000	10.8	10.0	8.1	20.0
1,1-Dichloropropene	Ave	0.4102	0.4173	0.0100	10.2	10.0	1.7	20.0
Isobutyl alcohol	Ave	0.0072	0.0097*	0.0100	336	250	34.4*	20.0
Benzene	Ave	1.165	1.303	0.5000	11.2	10.0	11.9	20.0
1,2-Dichloroethane	Ave	0.4694	0.4792	0.1000	10.2	10.0	2.1	20.0
n-Heptane	Ave	0.3168	0.4352	0.0100	13.7	10.0	37.4*	20.0
Trichloroethene	Ave	0.2430	0.2719	0.2000	11.2	10.0	11.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-156189/2 Calibration Date: 10/07/2015 12:51

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61007002.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	0.4932	0.4739	0.1000	9.61	10.0	-3.9	20.0
1,2-Dichloropropane	Ave	0.2784	0.3318	0.1000	11.9	10.0	19.2	20.0
1,4-Dioxane	Ave	0.0027	0.0034*	0.0100	250	200	24.8*	20.0
Dibromomethane	Ave	0.1690	0.1788	0.0100	10.6	10.0	5.8	20.0
Bromodichloromethane	Ave	0.3176	0.3350	0.2000	10.5	10.0	5.5	20.0
cis-1,3-Dichloropropene	Ave	0.3489	0.3823	0.2000	11.0	10.0	9.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.028	1.002	0.1000	19.5	20.0	-2.6	20.0
Toluene	Ave	5.159	5.655	0.4000	11.0	10.0	9.6	20.0
trans-1,3-Dichloropropene	Ave	1.310	1.466	0.1000	11.2	10.0	12.0	20.0
Ethyl methacrylate	Ave	1.391	1.466	0.0100	10.5	10.0	5.4	20.0
1,1,2-Trichloroethane	Ave	1.067	1.177	0.1000	11.0	10.0	10.3	20.0
Tetrachloroethene	Ave	0.8800	1.056	0.2000	12.0	10.0	20.0	20.0
1,3-Dichloropropane	Ave	1.971	2.231	0.0100	11.3	10.0	13.2	20.0
2-Hexanone	Ave	0.6750	0.8559	0.1000	25.4	20.0	26.8*	20.0
Dibromochloromethane	Ave	0.7283	0.8685	0.1000	11.9	10.0	19.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.9442	1.024	0.1000	10.8	10.0	8.4	20.0
3-Chlorobenzotrifluoride	Ave	1.652	1.838	0.0100	11.1	10.0	11.3	20.0
Chlorobenzene	Ave	3.171	3.591	0.5000	11.3	10.0	13.3	20.0
4-Chlorobenzotrifluoride	Ave	1.531	1.781	0.0100	11.6	10.0	16.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8691	1.064	0.0100	12.2	10.0	22.5*	20.0
Ethylbenzene	Ave	1.789	2.005	0.1000	11.2	10.0	12.1	20.0
m-Xylene & p-Xylene	Ave	2.220	2.538	0.1000	11.4	10.0	14.3	20.0
o-Xylene	Ave	2.221	2.459	0.3000	11.1	10.0	10.7	20.0
Styrene	Ave	3.411	4.134	0.3000	12.1	10.0	21.2*	20.0
Bromoform	Ave	0.3887	0.4681	0.1000	12.0	10.0	20.4*	20.0
2-Chlorobenzotrifluoride	Ave	1.692	1.939	0.0100	11.5	10.0	14.6	20.0
Isopropylbenzene	Ave	5.314	5.863	0.1000	11.0	10.0	10.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.428	1.500	0.3000	10.5	10.0	5.1	20.0
Bromobenzene	Ave	0.8038	0.8144	0.0100	10.1	10.0	1.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2549	0.2257	0.0100	8.86	10.0	-11.4	20.0
1,2,3-Trichloropropane	Ave	0.3057	0.2632	0.0100	8.61	10.0	-13.9	20.0
N-Propylbenzene	Ave	0.9257	0.8766	0.0100	9.47	10.0	-5.3	20.0
2-Chlorotoluene	Ave	0.7686	0.7731	0.0100	10.1	10.0	0.6	20.0
3-Chlorotoluene	Ave	0.8072	0.8027	0.0100	9.94	10.0	-0.6	20.0
1,3,5-Trimethylbenzene	Ave	3.010	2.853	0.0100	9.48	10.0	-5.2	20.0
4-Chlorotoluene	Ave	0.8119	0.8340	0.0100	10.3	10.0	2.7	20.0
tert-Butylbenzene	Ave	2.378	2.054	0.0100	8.64	10.0	-13.6	20.0
1,2,4-Trimethylbenzene	Ave	3.078	2.912	0.0100	9.46	10.0	-5.4	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.8719	0.8802	0.0100	10.1	10.0	1.0	20.0
sec-Butylbenzene	Ave	3.550	3.385	0.0100	9.54	10.0	-4.6	20.0
1,3-Dichlorobenzene	Ave	1.570	1.565	0.6000	9.97	10.0	-0.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-156189/2 Calibration Date: 10/07/2015 12:51

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61007002.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
4-Isopropyltoluene	Ave	2.979	2.773	0.0100	9.31	10.0	-6.9	20.0
1,4-Dichlorobenzene	Ave	1.605	1.612	0.5000	10.0	10.0	0.4	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.8674	0.8726	0.0100	10.1	10.0	0.6	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.9687	0.9408	0.0100	9.71	10.0	-2.9	20.0
n-Butylbenzene	Ave	2.974	2.604	0.0100	8.75	10.0	-12.5	20.0
1,2-Dichlorobenzene	Ave	1.585	1.535	0.4000	9.69	10.0	-3.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1454	0.1054	0.0500	7.25	10.0	-27.5*	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.380	1.204	0.0100	26.2	30.0	-12.7	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.522	1.310	0.0100	17.2	20.0	-13.9	20.0
1,2,4-Trichlorobenzene	Ave	1.229	1.115	0.2000	9.08	10.0	-9.2	20.0
Hexachlorobutadiene	Ave	0.4839	0.4705	0.0100	9.72	10.0	-2.8	20.0
Naphthalene	Ave	2.479	2.169	0.0100	8.75	10.0	-12.5	20.0
1,2,3-Trichlorobenzene	Ave	1.150	1.029	0.0100	8.95	10.0	-10.5	20.0
2,4,5-Trichlorotoluene	Ave	0.7719	0.5834	0.0100	7.56	10.0	-24.4*	20.0
2,3,6-Trichlorotoluene	Ave	0.7323	0.6474	0.0100	8.84	10.0	-11.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2303	0.2377		10.3	10.0	3.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3715	0.3821		10.3	10.0	2.8	20.0
Toluene-d8 (Surr)	Ave	3.944	4.357		11.0	10.0	10.5	20.0
4-Bromofluorobenzene (Surr)	Ave	1.751	1.704		9.73	10.0	-2.7	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Oct-2015 12:51:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008874-002
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 07-Oct-2015 14:05:12 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: fergusond Date: 07-Oct-2015 13:57:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.245	4.245	0.000	88	168577	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.281	7.281	0.000	98	430181	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.396	10.396	0.000	90	101182	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.750	12.750	0.000	96	190331	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.551	6.551	0.000	93	102234	50.0	51.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.928	6.928	0.000	73	164360	50.0	51.4	
$ 7 Toluene-d8 (Surr)	98	8.942	8.942	0.000	94	440866	50.0	55.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.588	11.588	0.000	85	172430	50.0	48.7	
11 Dichlorodifluoromethane	85	1.605	1.605	0.000	99	136346	50.0	45.8	
12 Chloromethane	50	1.757	1.757	0.000	100	149532	50.0	58.2	
13 Vinyl chloride	62	1.903	1.903	0.000	98	141771	50.0	51.3	
14 Butadiene	39	1.933	1.933	0.000	96	151983	50.0	58.6	
15 Bromomethane	94	2.232	2.232	0.000	93	58377	50.0	39.1	
16 Chloroethane	64	2.371	2.371	0.000	98	89590	50.0	47.5	
17 Dichlorofluoromethane	67	2.651	2.651	0.000	98	212755	50.0	48.4	
18 Trichlorofluoromethane	101	2.694	2.694	0.000	84	154533	50.0	44.1	
20 Ethyl ether	59	3.047	3.047	0.000	94	135685	50.0	54.6	
21 Acrolein	56	3.211	3.211	0.000	96	37562	150.0	138.7	
22 1,1-Dichloroethene	96	3.339	3.339	0.000	95	105229	50.0	48.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.412	3.412	0.000	93	112607	50.0	49.3	
24 Acetone	43	3.418	3.418	0.000	79	88964	100.0	116.9	
25 Iodomethane	142	3.533	3.533	0.000	100	147340	50.0	50.7	
26 Carbon disulfide	76	3.625	3.625	0.000	100	275015	50.0	49.0	
29 3-Chloro-1-propene	76	3.911	3.911	0.000	63	57924	50.0	47.4	
30 Methyl acetate	43	3.923	3.923	0.000	98	554116	250.0	310.5	
31 Methylene Chloride	84	4.124	4.124	0.000	97	149876	50.0	50.0	
32 2-Methyl-2-propanol	59	4.379	4.379	0.000	90	99159	500.0	522.7	
33 Acrylonitrile	53	4.501	4.501	0.000	97	556137	500.0	618.2	
34 trans-1,2-Dichloroethene	96	4.568	4.568	0.000	91	120901	50.0	48.4	
35 Methyl tert-butyl ether	73	4.574	4.574	0.000	96	336362	50.0	44.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.981	4.981	0.000	94	183848	50.0	54.3	
37 1,1-Dichloroethane	63	5.188	5.188	0.000	97	235134	50.0	52.6	
38 Vinyl acetate	43	5.237	5.237	0.000	98	177716	50.0	49.2	
43 cis-1,2-Dichloroethene	96	5.936	5.936	0.000	86	132699	50.0	48.8	
42 2,2-Dichloropropane	77	5.942	5.942	0.000	58	104071	50.0	46.0	
44 2-Butanone (MEK)	43	5.949	5.949	0.000	76	122624	100.0	118.1	
48 Chlorobromomethane	128	6.222	6.222	0.000	95	57853	50.0	53.0	
49 Tetrahydrofuran	42	6.241	6.241	0.000	89	83135	100.0	118.8	
50 Chloroform	83	6.368	6.368	0.000	95	219197	50.0	49.4	
51 1,1,1-Trichloroethane	97	6.539	6.539	0.000	96	159421	50.0	48.6	
52 Cyclohexane	56	6.612	6.612	0.000	96	231183	50.0	55.0	
53 Carbon tetrachloride	117	6.709	6.709	0.000	96	125255	50.0	54.0	
54 1,1-Dichloropropene	75	6.727	6.727	0.000	95	179505	50.0	50.9	
55 Isobutyl alcohol	41	6.904	6.904	0.000	89	104523	1250.0	1679.4	
56 Benzene	78	6.940	6.940	0.000	98	560720	50.0	55.9	
57 1,2-Dichloroethane	62	7.013	7.013	0.000	98	206120	50.0	51.0	
59 n-Heptane	43	7.305	7.305	0.000	93	187214	50.0	68.7	
61 Trichloroethene	130	7.676	7.676	0.000	96	116951	50.0	55.9	
63 Methylcyclohexane	83	7.920	7.920	0.000	95	203841	50.0	48.0	
64 1,2-Dichloropropane	63	7.950	7.950	0.000	94	142732	50.0	59.6	
65 1,4-Dioxane	88	8.029	8.029	0.000	38	29512	1000.0	1248.3	
67 Dibromomethane	93	8.035	8.035	0.000	95	76908	50.0	52.9	
68 Dichlorobromomethane	83	8.230	8.230	0.000	97	144100	50.0	52.7	
71 cis-1,3-Dichloropropene	75	8.674	8.674	0.000	92	164461	50.0	54.8	
72 4-Methyl-2-pentanone (MIBK	43	8.826	8.826	0.000	98	202675	100.0	97.4	
73 Toluene	91	9.009	9.009	0.000	98	572145	50.0	54.8	
74 trans-1,3-Dichloropropene	75	9.252	9.252	0.000	98	148378	50.0	56.0	
75 Ethyl methacrylate	69	9.313	9.313	0.000	91	148369	50.0	52.7	
76 1,1,2-Trichloroethane	97	9.447	9.447	0.000	94	119053	50.0	55.1	
77 Tetrachloroethene	164	9.526	9.526	0.000	97	106889	50.0	60.0	
78 1,3-Dichloropropane	76	9.605	9.605	0.000	95	225744	50.0	56.6	
79 2-Hexanone	43	9.659	9.659	0.000	98	173195	100.0	126.8	
81 Chlorodibromomethane	129	9.824	9.824	0.000	90	87875	50.0	59.6	
82 Ethylene Dibromide	107	9.939	9.939	0.000	97	103578	50.0	54.2	
83 3-Chlorobenzotrifluoride	180	10.390	10.390	0.000	93	185963	50.0	55.6	
84 Chlorobenzene	112	10.426	10.426	0.000	92	363390	50.0	56.6	
85 4-Chlorobenzotrifluoride	180	10.481	10.481	0.000	96	180186	50.0	58.2	
87 Ethylbenzene	106	10.523	10.523	0.000	99	202836	50.0	56.0	
86 1,1,1,2-Tetrachloroethane	131	10.523	10.523	0.000	90	107687	50.0	61.2	
88 m-Xylene & p-Xylene	106	10.657	10.657	0.000	99	256794	50.0	57.2	
89 o-Xylene	106	11.040	11.040	0.000	97	248791	50.0	55.4	
90 Styrene	104	11.059	11.059	0.000	94	418282	50.0	60.6	
91 Bromoform	173	11.241	11.241	0.000	96	47359	50.0	60.2	
92 2-Chlorobenzotrifluoride	180	11.302	11.302	0.000	96	196198	50.0	57.3	
93 Isopropylbenzene	105	11.405	11.405	0.000	98	593256	50.0	55.2	
96 1,1,2,2-Tetrachloroethane	83	11.716	11.716	0.000	95	151801	50.0	52.5	
95 Bromobenzene	156	11.722	11.722	0.000	97	155001	50.0	50.7	
97 trans-1,4-Dichloro-2-buten	53	11.746	11.746	0.000	80	42963	50.0	44.3	
98 1,2,3-Trichloropropane	110	11.770	11.770	0.000	86	50092	50.0	43.0	
99 N-Propylbenzene	120	11.825	11.825	0.000	99	166851	50.0	47.3	
100 2-Chlorotoluene	126	11.910	11.910	0.000	95	147150	50.0	50.3	
101 3-Chlorotoluene	126	11.977	11.977	0.000	96	152769	50.0	49.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.008	12.008	0.000	94	543052	50.0	47.4	
103 4-Chlorotoluene	126	12.038	12.038	0.000	99	158737	50.0	51.4	
104 tert-Butylbenzene	119	12.324	12.324	0.000	92	390957	50.0	43.2	
106 1,2,4-Trimethylbenzene	105	12.385	12.385	0.000	99	554157	50.0	47.3	
107 1,2-dichloro-4-(trifluorom	214	12.421	12.421	0.000	98	167530	50.0	50.5	
108 sec-Butylbenzene	105	12.549	12.549	0.000	95	644276	50.0	47.7	
109 1,3-Dichlorobenzene	146	12.665	12.665	0.000	95	297837	50.0	49.8	
110 4-Isopropyltoluene	119	12.707	12.707	0.000	96	527780	50.0	46.5	
111 1,4-Dichlorobenzene	146	12.774	12.774	0.000	90	306846	50.0	50.2	
113 2,4-Dichloro-1-(triflourom	214	12.792	12.792	0.000	96	166090	50.0	50.3	
114 2,5-Dichlorobenzotrifluori	214	12.835	12.835	0.000	97	179071	50.0	48.6	
116 n-Butylbenzene	91	13.115	13.115	0.000	99	495581	50.0	43.8	
117 1,2-Dichlorobenzene	146	13.127	13.127	0.000	94	292233	50.0	48.4	
118 1,2-Dibromo-3-Chloropropan	75	13.918	13.918	0.000	69	20055	50.0	36.2	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.058	14.058	0.000	99	687573	150.0	130.9	
121 2,3- & 3,4- Dichlorotoluen	125	14.478	14.478	0.000	98	498770	100.0	86.1	
122 1,2,4-Trichlorobenzene	180	14.739	14.739	0.000	94	212282	50.0	45.4	
123 Hexachlorobutadiene	225	14.891	14.891	0.000	96	89541	50.0	48.6	
124 Naphthalene	128	15.007	15.007	0.000	98	412873	50.0	43.7	
125 1,2,3-Trichlorobenzene	180	15.232	15.232	0.000	96	195834	50.0	44.8	
126 2,4,5-Trichlorotoluene	159	16.011	16.011	0.000	0	111029	50.0	37.8	
127 2,3,6-Trichlorotoluene	159	16.108	16.108	0.000	96	123210	50.0	44.2	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	97.2	
S 131 Xylenes, Total	106				0		100.0	112.5	
S 132 1,3-Dichloropropene, Total	1				0		100.0	110.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOAPRI_00147	Amount Added:	2.00	Units: uL	
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL	
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

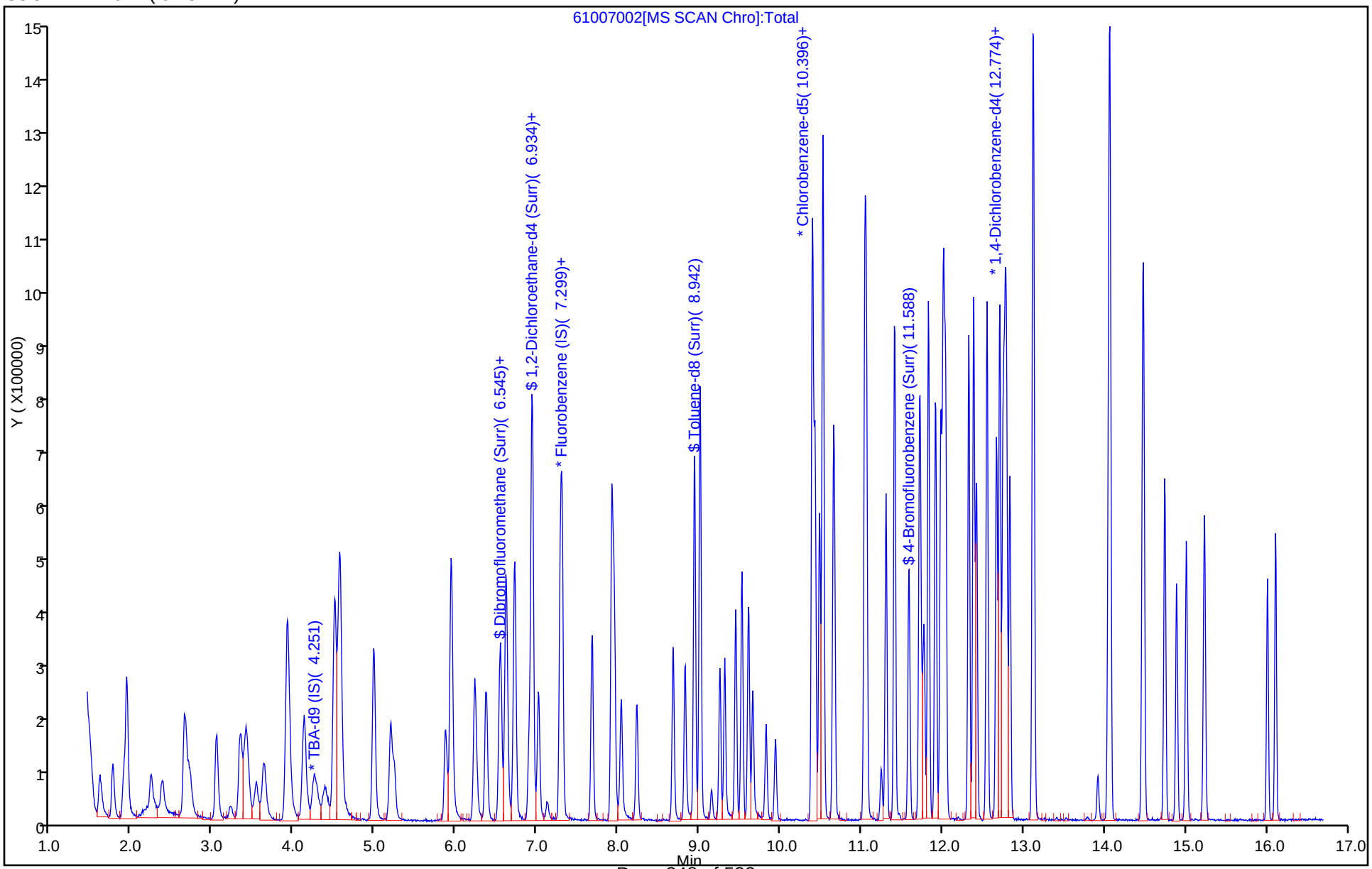
Report Date: 07-Oct-2015 14:05:13 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007002.D

Injection Date:	07-Oct-2015 12:51:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	31-Jul-2015 12:10:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0007999-001				
Operator ID:	001562	Instrument ID:	CHHP6		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	03-Aug-2015 12:15:22	Calib Date:	31-Jul-2015 18:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK049				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.381	8.381	0.000	0	114672	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

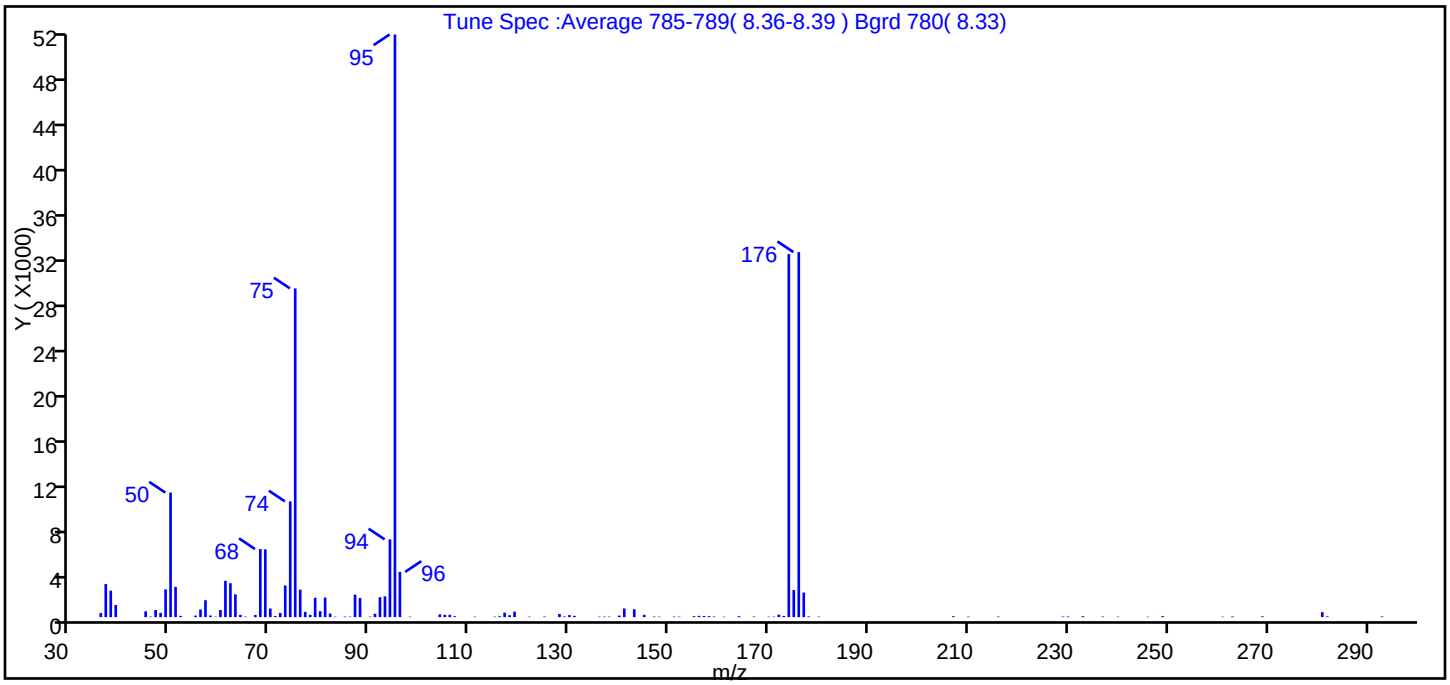
VOABFB25_00064 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D
Injection Date: 31-Jul-2015 12:10:30 Instrument ID: CHHP6
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.4
75	30 to 60% of m/z 95	56.4
96	5 to 9% of m/z 95	7.8
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	62.3
175	5 to 9% of m/z 174	4.7 (7.5)
176	Greater than 95% but less than 101% of m/z 174	62.6 (100.6)
177	5 to 9% of m/z 176	4.2 (6.7)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D\MSVOA_LL_CHHP6.rslt\spectra
Injection Date: 31-Jul-2015 12:10:30
Spectrum: Tune Spec :Average 785-789(8.36-8.39) Bgrd 780(8.33)
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	357	73.00	2786	116.00	79	170.00	42
37.00	2914	74.00	10190	117.00	397	171.00	42
38.00	2336	75.00	28944	118.00	172	172.00	223
39.00	1071	76.00	2425	119.00	489	173.00	107
45.00	513	77.00	467	122.00	43	174.00	31960
46.00	47	78.00	201	125.00	52	175.00	2388
47.00	630	79.00	1709	128.00	283	176.00	32136
48.00	370	80.00	524	129.00	57	177.00	2165
49.00	2439	81.00	1723	130.00	180	178.00	64
50.00	10968	82.00	318	131.00	115	180.00	45
51.00	2663	83.00	42	136.00	43	207.00	82
52.00	110	85.00	51	137.00	46	210.00	48
55.00	140	86.00	45	138.00	43	216.00	52
56.00	674	87.00	1982	140.00	137	229.00	53
57.00	1491	88.00	1683	141.00	763	230.00	56
58.00	144	90.00	51	143.00	689	233.00	85
59.00	42	91.00	295	145.00	209	237.00	52
60.00	626	92.00	1761	147.00	52	240.00	44
61.00	3200	93.00	1826	148.00	43	246.00	42
62.00	2990	94.00	6848	151.00	49	249.00	90
63.00	2009	95.00	51296	152.00	43	261.00	42
64.00	201	96.00	3987	155.00	87	263.00	61
65.00	44	98.00	42	156.00	116	269.00	68
67.00	191	104.00	251	157.00	98	281.00	438
68.00	5995	105.00	201	158.00	87	282.00	71
69.00	5969	106.00	210	159.00	54	293.00	62
70.00	760	107.00	82	161.00	42		
71.00	96	111.00	42	164.00	89		
72.00	366	115.00	42	167.00	53		

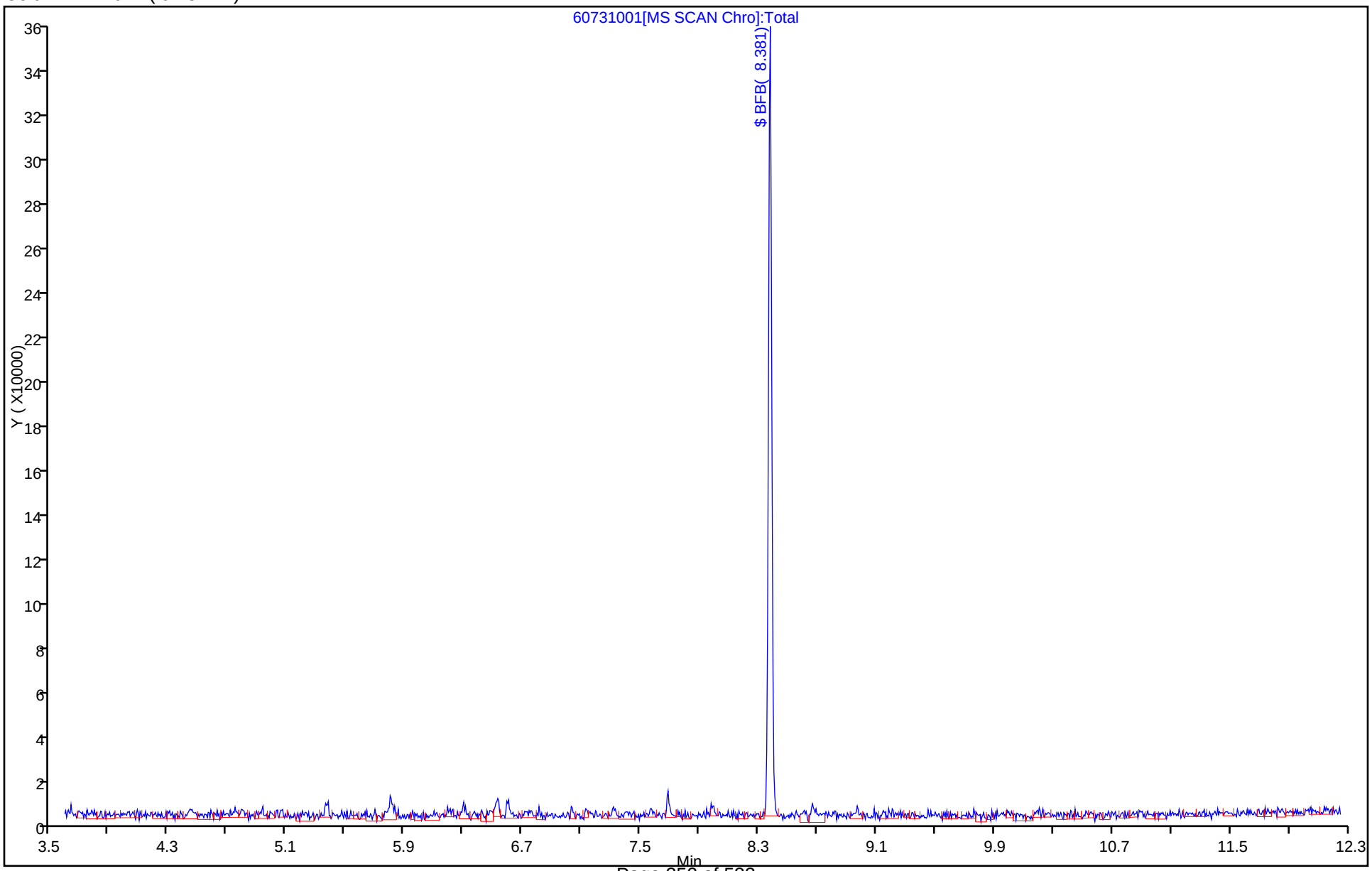
Report Date: 03-Aug-2015 12:15:24 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D

Injection Date:	31-Jul-2015 12:10:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005001.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Oct-2015 09:22:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0008826-001				
Operator ID:	001562	Instrument ID:	CHHP6		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	05-Oct-2015 10:57:49	Calib Date:	14-Sep-2015 16:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: fergusond		Date:	05-Oct-2015 09:34:23		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.380	8.380	0.000	0	79857	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

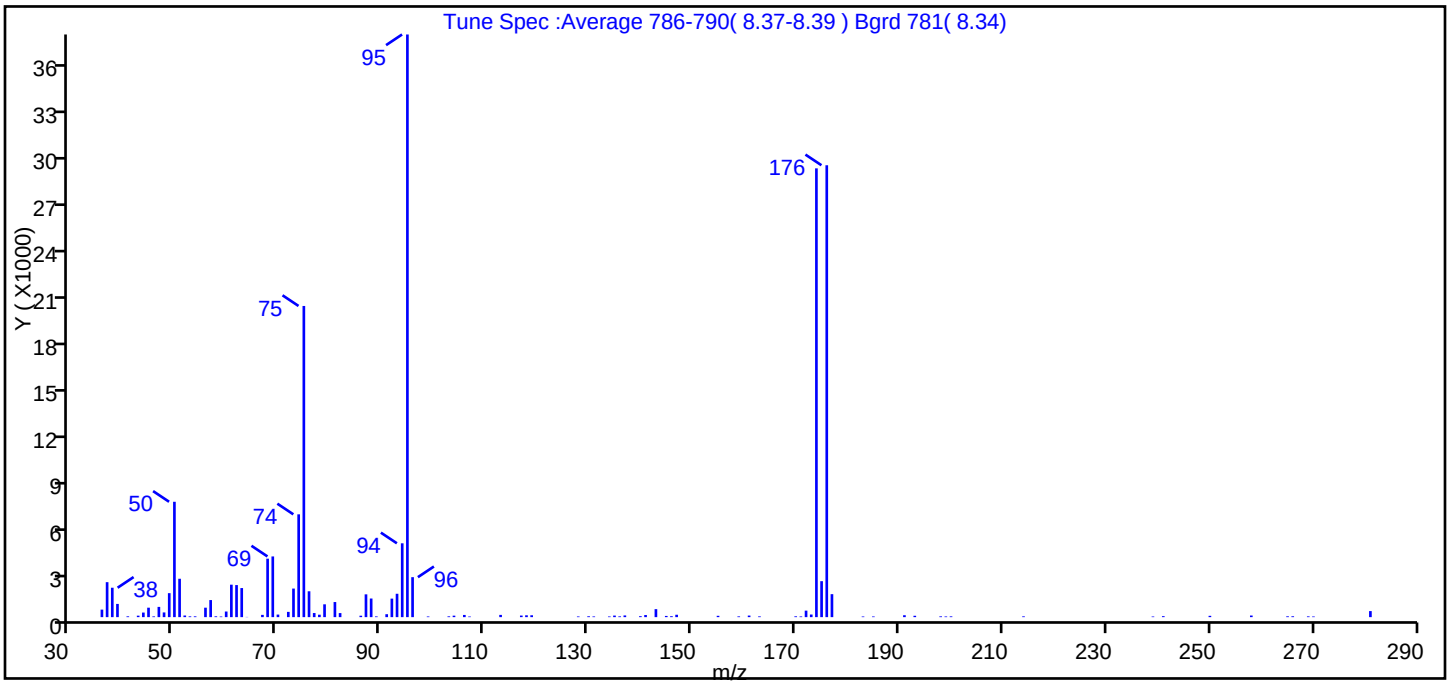
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005001.D
Injection Date: 05-Oct-2015 09:22:30 Instrument ID: CHHP6
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.8
75	30 to 60% of m/z 95	53.4
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.4 (0.6)
174	50 to 120% of m/z 95	77.0
175	5 to 9% of m/z 174	6.2 (8.0)
176	Greater than 95% but less than 101% of m/z 174	77.6 (100.7)
177	5 to 9% of m/z 176	3.9 (5.1)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005001.D\MSVOA_LL_CHHP6.rslt\spectra
Injection Date: 05-Oct-2015 09:22:30
Spectrum: Tune Spec :Average 786-790(8.37-8.39) Bgrd 781(8.34)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	484	67.00	146	104.00	95	172.00	418
37.00	2249	68.00	3759	106.00	141	173.00	168
38.00	1891	69.00	3903	107.00	40	174.00	28856
39.00	850	70.00	165	113.00	145	175.00	2313
41.00	52	72.00	339	117.00	102	176.00	29056
43.00	95	73.00	1837	118.00	119	177.00	1478
44.00	295	74.00	6610	119.00	121	183.00	42
45.00	608	75.00	20008	128.00	44	185.00	43
46.00	48	76.00	1663	130.00	55	191.00	123
47.00	659	77.00	265	131.00	45	193.00	88
48.00	303	78.00	157	134.00	43	198.00	51
49.00	1542	79.00	825	135.00	101	199.00	44
50.00	7418	81.00	971	136.00	50	200.00	50
51.00	2468	82.00	261	137.00	109	214.00	50
52.00	105	86.00	92	140.00	61	239.00	41
53.00	50	87.00	1466	141.00	135	241.00	62
54.00	51	88.00	1198	143.00	514	250.00	85
56.00	608	89.00	47	145.00	78	258.00	104
57.00	1098	91.00	189	146.00	59	265.00	53
58.00	53	92.00	1191	147.00	154	266.00	56
59.00	40	93.00	1503	155.00	86	269.00	49
60.00	362	94.00	4748	159.00	48	270.00	42
61.00	2087	95.00	37464	161.00	101	281.00	389
62.00	2062	96.00	2570	163.00	49		
63.00	1870	99.00	43	170.00	53		
64.00	13	103.00	51	171.00	45		

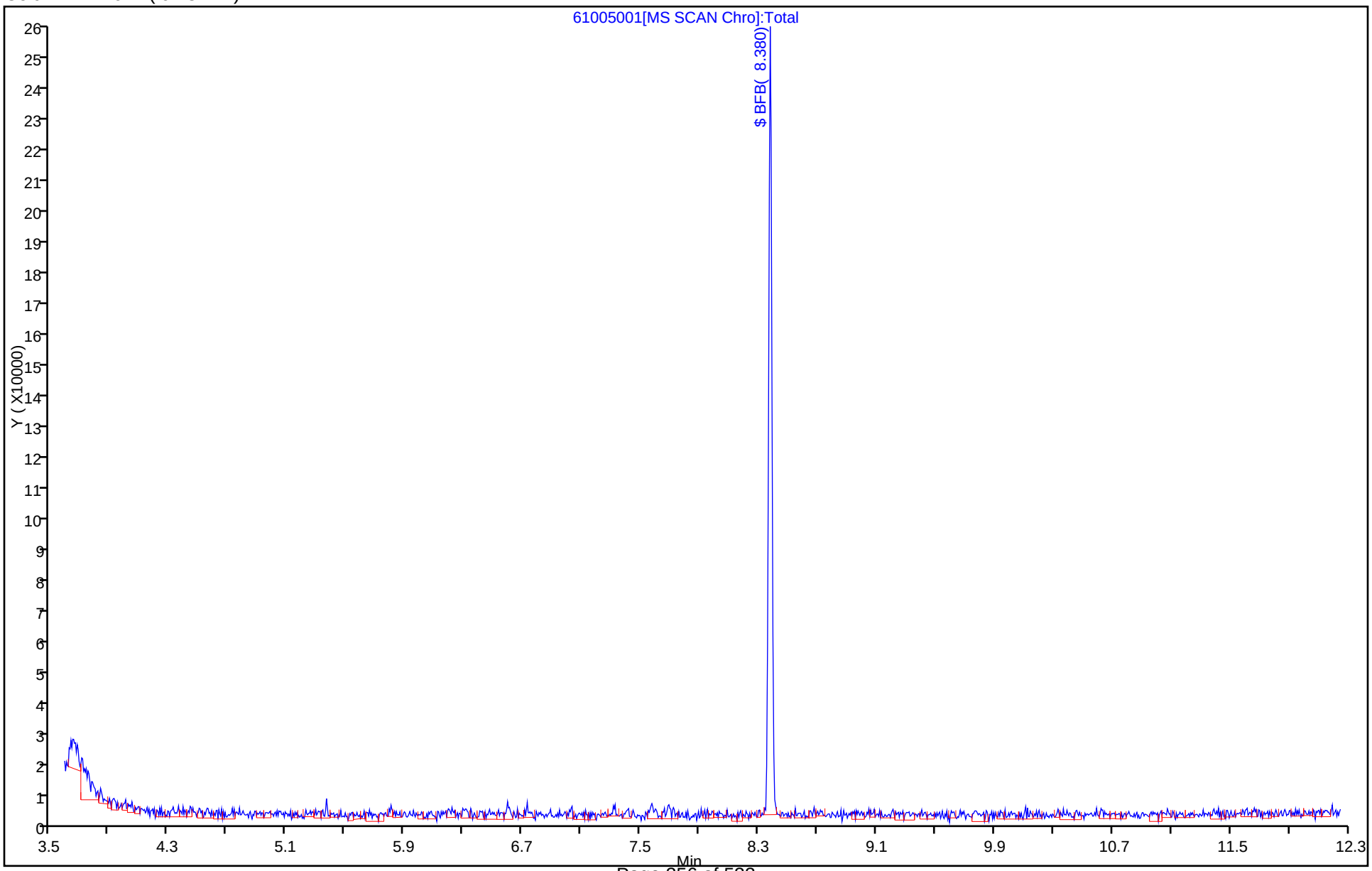
Report Date: 05-Oct-2015 10:57:50 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005001.D

Injection Date:	05-Oct-2015 09:22:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006001.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Oct-2015 11:29:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0008851-001				
Operator ID:	001562	Instrument ID:	CHHP6		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\MSVOA_LL_CHHP6.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	06-Oct-2015 12:48:07	Calib Date:	14-Sep-2015 16:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK001				
First Level Reviewer: fergusond		Date:	06-Oct-2015 11:39:16		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.381	8.381	0.000	0	77834	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

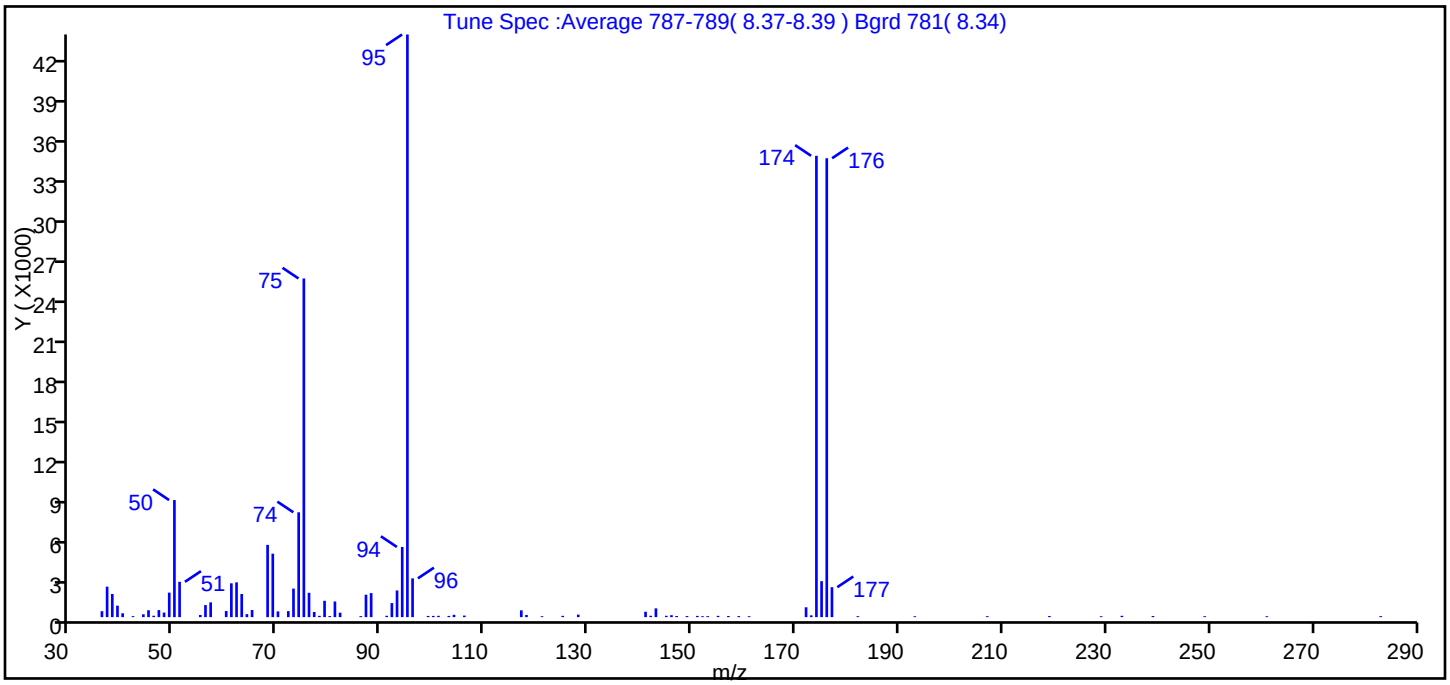
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006001.D
Injection Date: 06-Oct-2015 11:29:30 Instrument ID: CHHP6
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.1
75	30 to 60% of m/z 95	58.1
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	79.2
175	5 to 9% of m/z 174	6.2 (7.8)
176	Greater than 95% but less than 101% of m/z 174	78.8 (99.5)
177	5 to 9% of m/z 176	5.1 (6.5)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006001.D\MSVOA_LL_CHHP6.rslt\spectra
Injection Date: 06-Oct-2015 11:29:30
Spectrum: Tune Spec :Average 787-789(8.37-8.39) Bgrd 781(8.34)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	448	65.00	537	95.00	43880	153.00	75
37.00	2297	68.00	5442	96.00	2921	155.00	97
38.00	1745	69.00	4781	99.00	92	157.00	85
39.00	865	70.00	432	100.00	94	159.00	79
40.00	291	72.00	453	101.00	100	161.00	70
42.00	77	73.00	2150	103.00	94	172.00	743
44.00	213	74.00	7896	104.00	177	173.00	135
45.00	521	75.00	25504	106.00	120	174.00	34744
46.00	106	76.00	1836	117.00	514	175.00	2711
47.00	532	77.00	390	118.00	160	176.00	34560
48.00	345	78.00	99	121.00	68	177.00	2256
49.00	1846	79.00	1232	125.00	98	182.00	72
50.00	8818	80.00	79	128.00	189	193.00	67
51.00	2659	81.00	1180	141.00	406	207.00	72
55.00	165	82.00	336	142.00	104	219.00	82
56.00	909	86.00	77	143.00	661	229.00	69
57.00	1113	87.00	1690	145.00	104	233.00	101
60.00	460	88.00	1810	146.00	146	239.00	86
61.00	2548	91.00	102	147.00	86	249.00	72
62.00	2619	92.00	1059	149.00	82	261.00	70
63.00	1743	93.00	2009	151.00	94	283.00	77
64.00	225	94.00	5286	152.00	69		

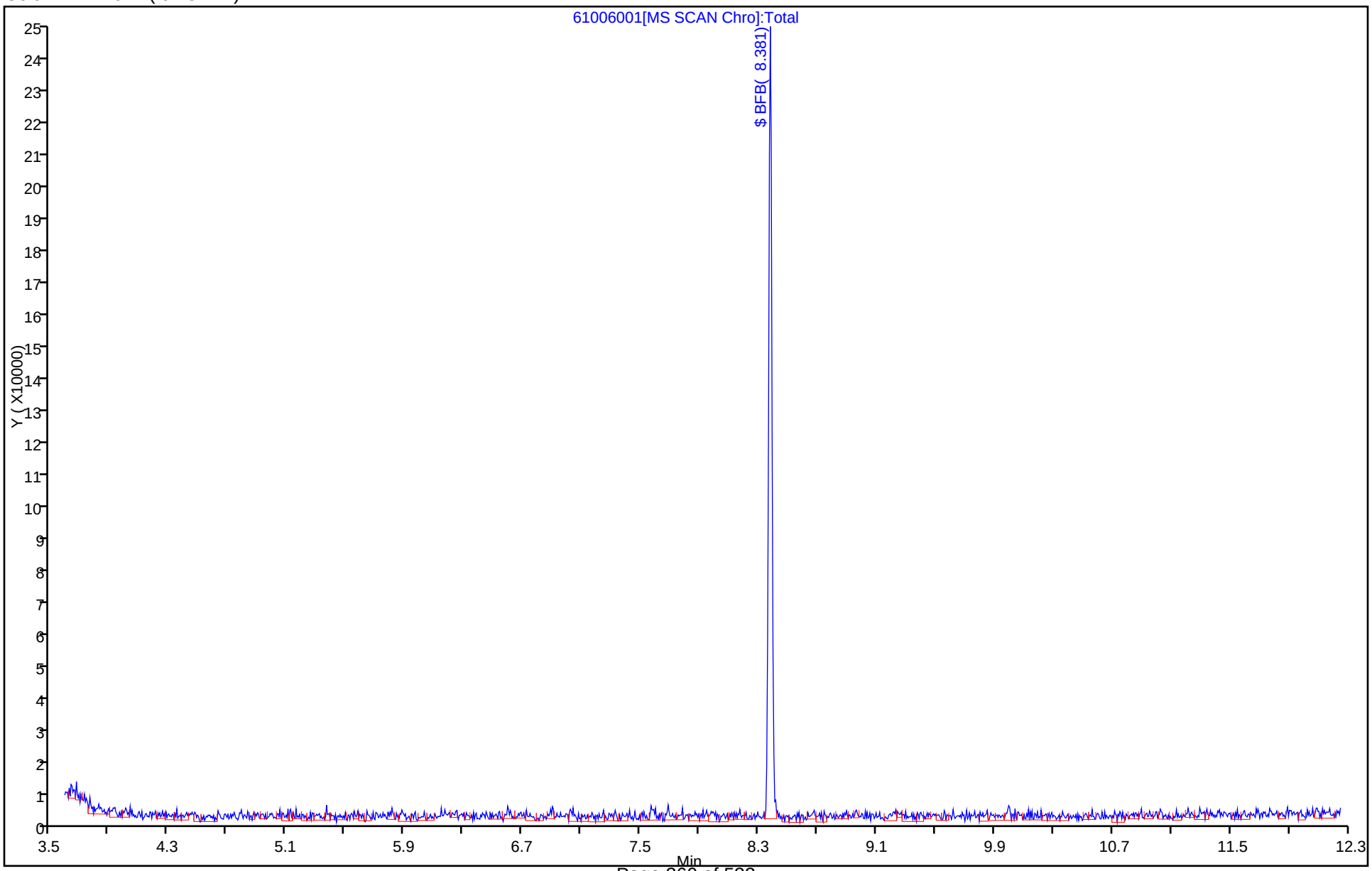
Report Date: 06-Oct-2015 12:48:09 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006001.D

Injection Date:	06-Oct-2015 11:29:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007004.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 07-Oct-2015 11:51:30 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 180-0008874-004
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 07-Oct-2015 14:05:06 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: fergusond Date: 07-Oct-2015 12:01:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.375	8.375	0.000	0	151730	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

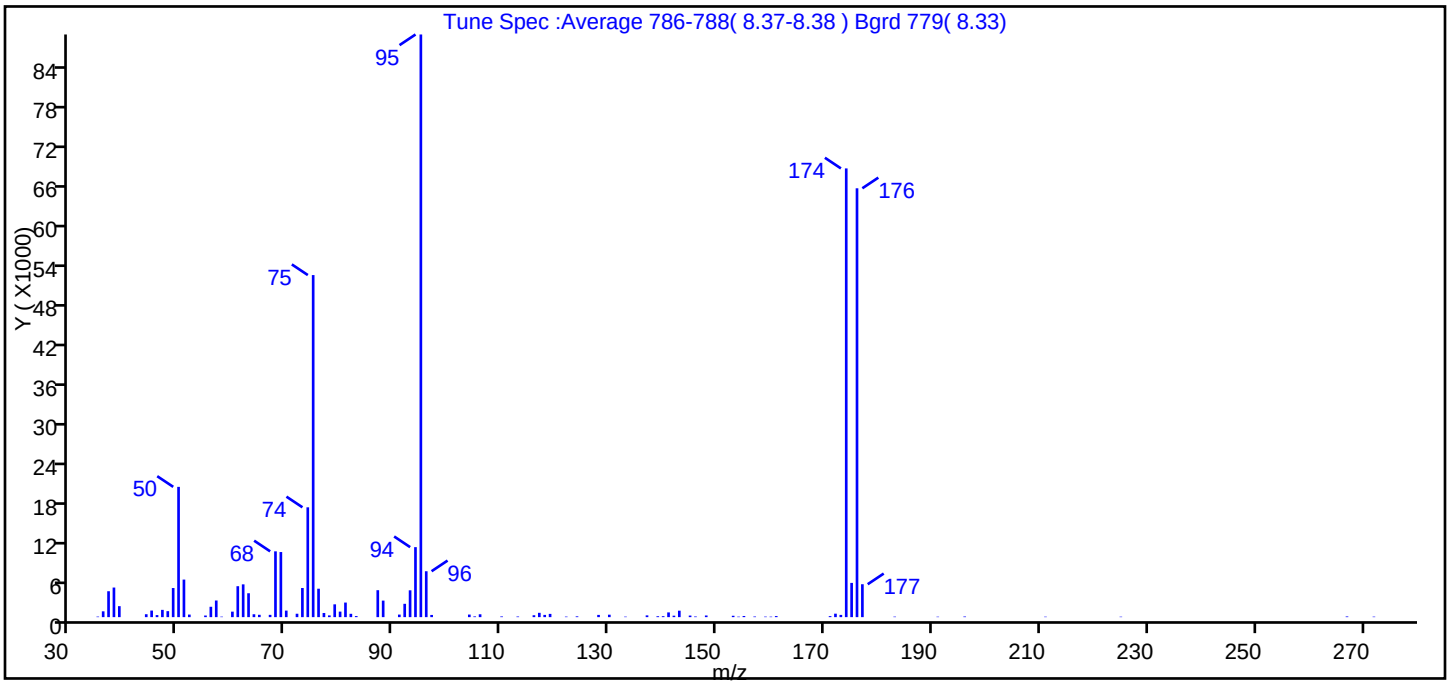
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007004.D
Injection Date: 07-Oct-2015 11:51:30 Instrument ID: CHHP6
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.4
75	30 to 60% of m/z 95	58.7
96	5 to 9% of m/z 95	7.9
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	77.0
175	5 to 9% of m/z 174	5.9 (7.6)
176	Greater than 95% but less than 101% of m/z 174	73.6 (95.6)
177	5 to 9% of m/z 176	5.6 (7.7)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007004.D\MSVOA_LL_CHHP6.rslt\spectra
Injection Date: 07-Oct-2015 11:51:30
Spectrum: Tune Spec :Average 786-788(8.37-8.38) Bgrd 779(8.33)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	82	67.00	346	97.00	334	153.00	207
36.00	882	68.00	9960	104.00	391	154.00	74
37.00	3922	69.00	9853	105.00	113	155.00	169
38.00	4480	70.00	990	106.00	434	157.00	95
39.00	1663	72.00	516	110.00	106	159.00	80
44.00	442	73.00	4409	113.00	95	160.00	74
45.00	997	74.00	16624	116.00	289	161.00	164
46.00	310	75.00	51776	117.00	654	171.00	153
47.00	1102	76.00	4303	118.00	339	172.00	524
48.00	907	77.00	627	119.00	493	173.00	339
49.00	4406	78.00	263	122.00	82	174.00	67920
50.00	19720	79.00	1939	124.00	121	175.00	5183
51.00	5685	80.00	838	128.00	340	176.00	64912
52.00	390	81.00	2207	130.00	371	177.00	4982
55.00	245	82.00	505	133.00	76	183.00	76
56.00	1569	83.00	160	137.00	267	191.00	67
57.00	2518	87.00	4079	139.00	137	196.00	94
58.00	75	88.00	2504	140.00	143	211.00	68
60.00	833	91.00	387	141.00	716	225.00	68
61.00	4684	92.00	2018	142.00	220	267.00	105
62.00	4963	93.00	4062	143.00	977	272.00	76
63.00	3617	94.00	10595	145.00	239		
64.00	438	95.00	88192	146.00	99		
65.00	357	96.00	6948	148.00	250		

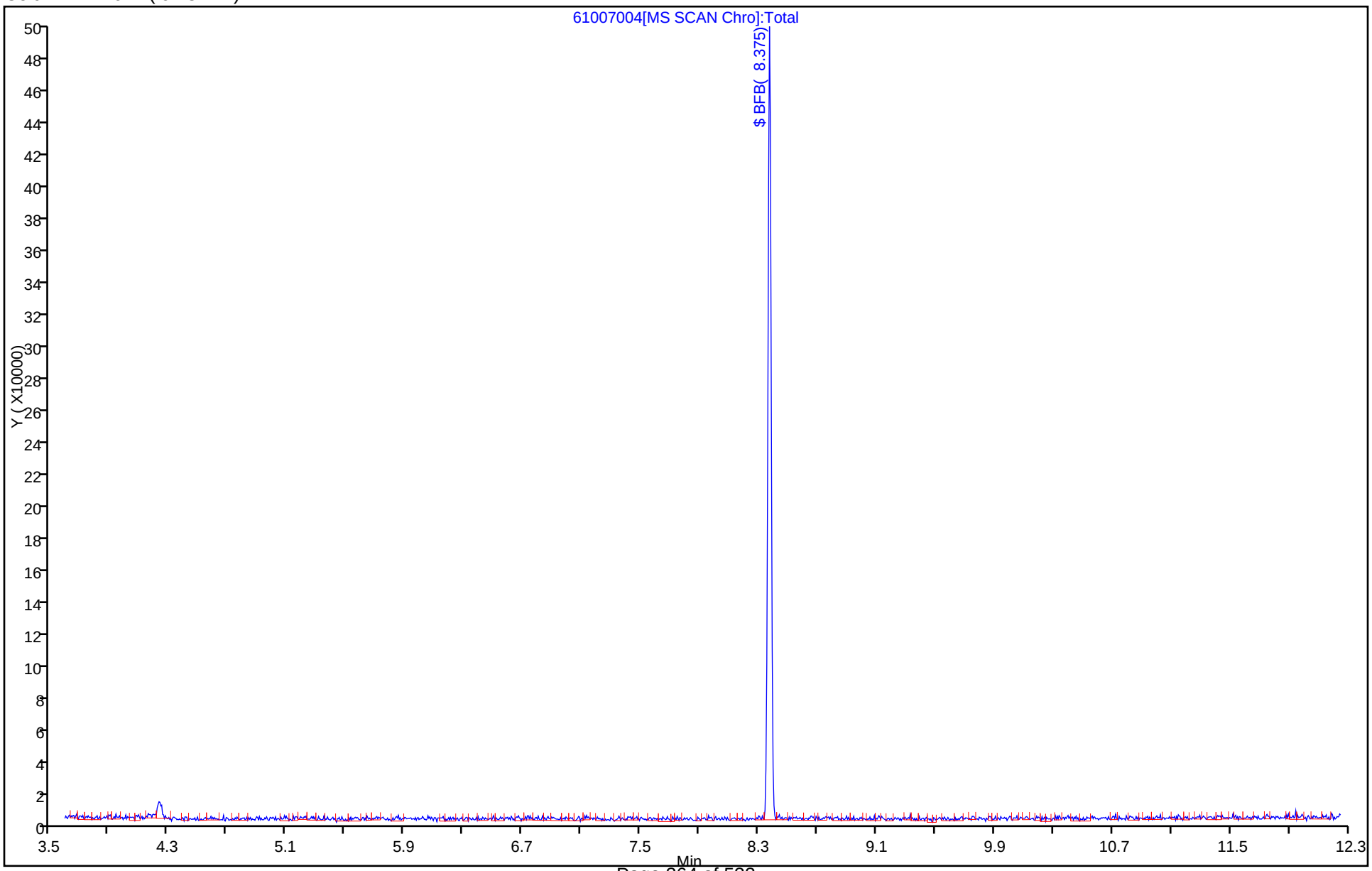
Report Date: 07-Oct-2015 14:05:08 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007004.D

Injection Date:	07-Oct-2015 11:51:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_LL_CHHP6	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.: 180-48259-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-155869/5

Matrix: Water | Lab File ID: 61005005.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/05/2015 11:25

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.: 155869 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-155869/5

Matrix: Water Lab File ID: 61005005.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2015 11:25

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.: 155869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-135
2037-26-5	Toluene-d8 (Surr)	99		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	105		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005005.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Oct-2015 11:25:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0008826-005
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 05-Oct-2015 12:51:43 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: fergusond Date: 05-Oct-2015 12:51:43

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	4.235	4.230	0.005	93	183859	1000.0	1000.0	
*	2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	425468	50.0	50.0	
*	3 Chlorobenzene-d5	119	10.397	10.399	-0.002	90	103279	50.0	50.0	
*	4 1,4-Dichlorobenzene-d4	152	12.752	12.747	0.005	98	169357	50.0	50.0	
$	5 Dibromofluoromethane (Surr	113	6.553	6.550	0.003	93	102465	50.0	52.3	
$	6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.928	0.002	70	162047	50.0	51.3	
$	7 Toluene-d8 (Surr)	98	8.943	8.941	0.002	94	403252	50.0	49.5	
$	8 4-Bromofluorobenzene (Surr	95	11.584	11.587	-0.003	86	159385	50.0	44.1	
	11 Dichlorodifluoromethane	85		1.604					ND	
	12 Chloromethane	50		1.769					ND	
	13 Vinyl chloride	62		1.903					ND	
	14 Butadiene	39		1.939					ND	
	15 Bromomethane	94		2.243					ND	
	16 Chloroethane	64		2.377					ND	
	17 Dichlorofluoromethane	67		2.651					ND	
	18 Trichlorofluoromethane	101		2.681					ND	
	19 Ethanol	45		2.941					ND	
	20 Ethyl ether	59		3.046					ND	
	21 Acrolein	56		3.211					ND	
	22 1,1-Dichloroethene	96		3.326					ND	
	23 1,1,2-Trichloro-1,2,2-trif	101		3.405					ND	
	24 Acetone	43		3.430					ND	
	25 Iodomethane	142		3.533					ND	
	26 Carbon disulfide	76		3.630					ND	
	27 Isopropyl alcohol	45		3.677					ND	
	28 Acetonitrile	40		3.847					ND	
	29 3-Chloro-1-propene	76		3.910					ND	
	30 Methyl acetate	43		3.922					ND	
	31 Methylene Chloride	84		4.117					ND	
	32 2-Methyl-2-propanol	59		4.366					ND	
	33 Acrylonitrile	53		4.500					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.555					ND	
35 Methyl tert-butyl ether	73		4.573					ND	
37 1,1-Dichloroethane	63		5.194					ND	
40 Isopropyl ether	45		5.295					ND	
39 2-Chloro-1,3-butadiene	53		5.295					ND	
41 Tert-butyl ethyl ether	59		5.769					ND	
42 2,2-Dichloropropane	77		5.936					ND	
43 cis-1,2-Dichloroethene	96		5.942					ND	
44 2-Butanone (MEK)	43		5.948					ND	
45 Propionitrile	54		6.013					ND	
46 Ethyl acetate	43		6.025					ND	
47 Methacrylonitrile	41		6.195					ND	
48 Chlorobromomethane	128		6.228					ND	
49 Tetrahydrofuran	42		6.246					ND	
50 Chloroform	83		6.368					ND	
51 1,1,1-Trichloroethane	97		6.532					ND	
52 Cyclohexane	56		6.617					ND	
53 Carbon tetrachloride	117		6.715					ND	
54 1,1-Dichloropropene	75		6.727					ND	
55 Isobutyl alcohol	41		6.897					ND	
56 Benzene	78		6.940					ND	
57 1,2-Dichloroethane	62		7.013					ND	
148 Isooctane	57		7.102					ND	
58 Tert-amyl methyl ether	73		7.120					ND	
59 n-Heptane	43		7.305					ND	
60 n-Butanol	56		7.613					ND	
61 Trichloroethene	130		7.676					ND	
62 Ethyl acrylate	55		7.795					ND	
63 Methylcyclohexane	83		7.925					ND	
64 1,2-Dichloropropane	63		7.950					ND	
65 1,4-Dioxane	88		8.023					ND	
66 Methyl methacrylate	69		8.032					ND	
67 Dibromomethane	93		8.035					ND	
68 Dichlorobromomethane	83		8.229					ND	
69 2-Nitropropane	41		8.446					ND	
70 2-Chloroethyl vinyl ether	63		8.530					ND	
71 cis-1,3-Dichloropropene	75		8.680					ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826					ND	
73 Toluene	91		9.008					ND	
74 trans-1,3-Dichloropropene	75		9.257					ND	
75 Ethyl methacrylate	69		9.312					ND	
77 Tetrachloroethene	164		9.525					ND	
79 2-Hexanone	43		9.659					ND	
81 Chlorodibromomethane	129		9.823					ND	
82 Ethylene Dibromide	107		9.939					ND	
83 3-Chlorobenzotrifluoride	180		10.395					ND	
84 Chlorobenzene	112		10.426					ND	
85 4-Chlorobenzotrifluoride	180		10.486					ND	
86 1,1,1,2-Tetrachloroethane	131		10.523					ND	
87 Ethylbenzene	106		10.529					ND	
88 m-Xylene & p-Xylene	106		10.657					ND	
89 o-Xylene	106		11.040					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
90 Styrene	104		11.058					ND	
129 Cyclohexanol	57		11.246					ND	
91 Bromoform	173		11.247					ND	
92 2-Chlorobenzotrifluoride	180		11.302					ND	
93 Isopropylbenzene	105		11.411					ND	
94 Cyclohexanone	55		11.494					ND	
96 1,1,2,2-Tetrachloroethane	83		11.715					ND	
95 Bromobenzene	156		11.727					ND	
97 trans-1,4-Dichloro-2-buten	53		11.758					ND	
98 1,2,3-Trichloropropane	110		11.776					ND	
99 N-Propylbenzene	120		11.825					ND	
100 2-Chlorotoluene	126		11.916					ND	
101 3-Chlorotoluene	126		11.977					ND	
102 1,3,5-Trimethylbenzene	105		12.007					ND	
103 4-Chlorotoluene	126		12.038					ND	
104 tert-Butylbenzene	119		12.324					ND	
105 Pentachloroethane	167		12.358					ND	
106 1,2,4-Trimethylbenzene	105		12.384					ND	
107 1,2-dichloro-4-(trifluorom	214		12.421					ND	
108 sec-Butylbenzene	105		12.549					ND	
110 4-Isopropyltoluene	119		12.707					ND	
113 2,4-Dichloro-1-(triflourom	214		12.786					ND	
112 1,2,3-Trimethylbenzene	105		12.796					ND	
114 2,5-Dichlorobenzotrifluori	214		12.828					ND	
115 Benzyl chloride	91		12.881					ND	
116 n-Butylbenzene	91		13.114					ND	
117 1,2-Dichlorobenzene	146		13.127					ND	
118 1,2-Dibromo-3-Chloropropan	75		13.911					ND	
119 2,4- & 2,5- & 2,6- Dichlor	125		14.057					ND	
120 1,3,5-Trichlorobenzene	180		14.110					ND	
121 2,3- & 3,4- Dichlorotoluen	125		14.477					ND	
122 1,2,4-Trichlorobenzene	180		14.745					ND	
123 Hexachlorobutadiene	225		14.891					ND	
125 1,2,3-Trichlorobenzene	180		15.225					ND	
126 2,4,5-Trichlorotoluene	159		16.010					ND	
127 2,3,6-Trichlorotoluene	159		16.107					ND	
128 2-Methylnaphthalene	142		16.154					ND	
153 1,2 Epoxybutane TIC	1		0.000					ND	
145 2,3-Dichlorotoluene	1		0.000					ND	
147 2,6-Dichlorotoluene	1		0.000					ND	
146 3,4-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
150 Tert-butyl ethyl ether (TI	1		0.000					ND	
151 Tert-amyl methyl ether (TI	1		0.000					ND	
144 2,4-Dichlorotoluene	1		0.000					ND	
149 Isopropyl ether TIC	1		0.000					ND	
143 2,5-Dichlorotoluene	1		0.000					ND	
S 130 1,2-Dichloroethene, Total	96		1.000					ND	
S 131 Xylenes, Total	106		1.000					ND	
S 132 1,3-Dichloropropene, Total	1		0.000					ND	
T 133 Tetrahydrofuran TIC	42		0.000					ND	
T 134 Methyl n-amyl ketone TIC	43		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
T 135 Mesityl oxide TIC	83		0.000					ND	

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

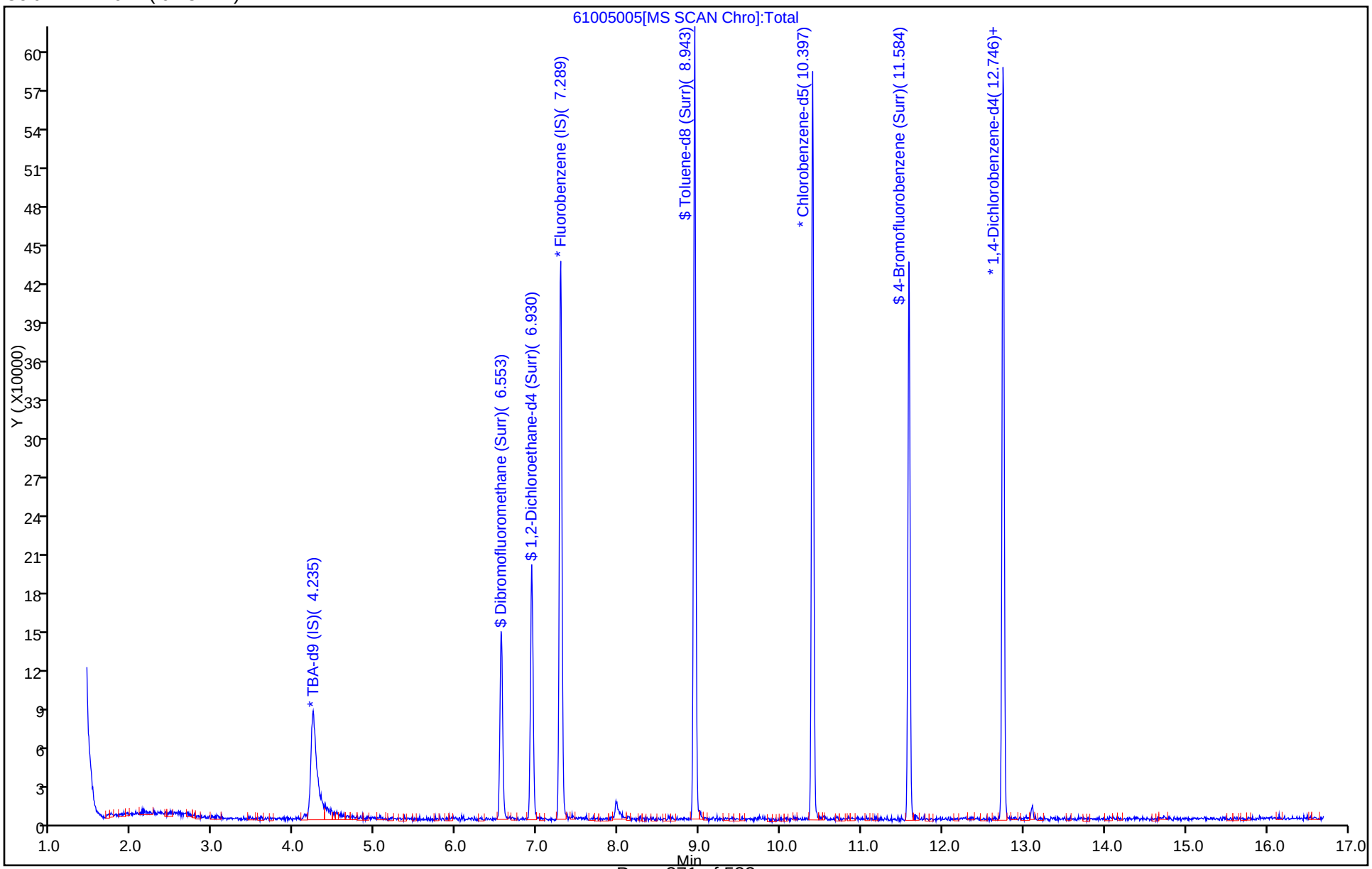
Report Date: 05-Oct-2015 12:51:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005005.D

Injection Date:	05-Oct-2015 11:25:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_LL_CHHP6	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.: 180-48259-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-156041/5

Matrix: Water | Lab File ID: 61006005.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 13:28

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.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-156041/5

Matrix: Water Lab File ID: 61006005.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2015 13:28

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.: 156041 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		64-135
2037-26-5	Toluene-d8 (Surr)	96		71-118
460-00-4	4-Bromofluorobenzene (Surr)	85		70-118
1868-53-7	Dibromofluoromethane (Surr)	105		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006005.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Oct-2015 13:28:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0008851-005
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 06-Oct-2015 13:54:43 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: fergusond Date: 06-Oct-2015 13:54:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.231	4.230	0.001	87	197909	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.285	7.290	-0.005	98	418930	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.400	10.399	0.001	90	111825	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.748	12.747	0.001	97	182489	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.555	6.556	-0.001	91	101307	50.0	52.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.932	6.933	-0.001	70	163592	50.0	52.6	
$ 7 Toluene-d8 (Surr)	98	8.940	8.941	-0.001	94	422832	50.0	47.9	
$ 8 4-Bromofluorobenzene (Surr	95	11.586	11.581	0.005	86	166121	50.0	42.4	
11 Dichlorodifluoromethane	85		1.610					ND	
13 Vinyl chloride	62		1.902					ND	
14 Butadiene	39		1.945					ND	
15 Bromomethane	94		2.249					ND	
16 Chloroethane	64		2.389					ND	
17 Dichlorofluoromethane	67		2.657					ND	
18 Trichlorofluoromethane	101		2.699					ND	
19 Ethanol	45		2.928					ND	
20 Ethyl ether	59		3.046					ND	
21 Acrolein	56		3.222					ND	
22 1,1-Dichloroethene	96		3.338					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.411					ND	
24 Acetone	43		3.423					ND	
25 Iodomethane	142		3.539					ND	
26 Carbon disulfide	76		3.630					ND	
27 Isopropyl alcohol	45		3.683					ND	
28 Acetonitrile	40		3.841					ND	
29 3-Chloro-1-propene	76		3.916					ND	
30 Methyl acetate	43		3.928					ND	
32 2-Methyl-2-propanol	59		4.384					ND	
33 Acrylonitrile	53		4.500					ND	
34 trans-1,2-Dichloroethene	96		4.567					ND	
35 Methyl tert-butyl ether	73		4.567					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57		4.993					ND	
37 1,1-Dichloroethane	63		5.193					ND	
40 Isopropyl ether	45		5.295					ND	
39 2-Chloro-1,3-butadiene	53		5.295					ND	
41 Tert-butyl ethyl ether	59		5.769					ND	
44 2-Butanone (MEK)	43		5.942					ND	
42 2,2-Dichloropropane	77		5.942					ND	
43 cis-1,2-Dichloroethene	96		5.942					ND	
45 Propionitrile	54		6.013					ND	
46 Ethyl acetate	43		6.025					ND	
47 Methacrylonitrile	41		6.195					ND	
48 Chlorobromomethane	128		6.228					ND	
49 Tetrahydrofuran	42		6.240					ND	
50 Chloroform	83		6.374					ND	
51 1,1,1-Trichloroethane	97		6.538					ND	
52 Cyclohexane	56		6.617					ND	
53 Carbon tetrachloride	117		6.714					ND	
54 1,1-Dichloropropene	75		6.726					ND	
55 Isobutyl alcohol	41		6.903					ND	
56 Benzene	78		6.939					ND	
57 1,2-Dichloroethane	62		7.018					ND	
148 Isooctane	57		7.102					ND	
58 Tert-amyl methyl ether	73		7.126					ND	
59 n-Heptane	43		7.310					ND	
60 n-Butanol	56		7.606					ND	
61 Trichloroethene	130		7.675					ND	
62 Ethyl acrylate	55		7.789					ND	
64 1,2-Dichloropropane	63		7.949					ND	
66 Methyl methacrylate	69		8.032					ND	
65 1,4-Dioxane	88		8.034					ND	
67 Dibromomethane	93		8.034					ND	
68 Dichlorobromomethane	83		8.229					ND	
69 2-Nitropropane	41		8.446					ND	
70 2-Chloroethyl vinyl ether	63		8.530					ND	
71 cis-1,3-Dichloropropene	75		8.673					ND	
72 4-Methyl-2-pentanone (MIBK	43		8.825					ND	
73 Toluene	91		9.008					ND	
74 trans-1,3-Dichloropropene	75		9.251					ND	
75 Ethyl methacrylate	69		9.312					ND	
76 1,1,2-Trichloroethane	97		9.452					ND	
77 Tetrachloroethene	164		9.525					ND	
78 1,3-Dichloropropane	76		9.610					ND	
79 2-Hexanone	43		9.659					ND	
81 Chlorodibromomethane	129		9.823					ND	
82 Ethylene Dibromide	107		9.938					ND	
83 3-Chlorobenzotrifluoride	180		10.395					ND	
84 Chlorobenzene	112		10.425					ND	
85 4-Chlorobenzotrifluoride	180		10.486					ND	
86 1,1,1,2-Tetrachloroethane	131		10.522					ND	
87 Ethylbenzene	106		10.529					ND	
88 m-Xylene & p-Xylene	106		10.662					ND	
89 o-Xylene	106		11.040					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
90 Styrene	104		11.058					ND	
129 Cyclohexanol	57		11.246					ND	
91 Bromoform	173		11.246					ND	
92 2-Chlorobenzotrifluoride	180		11.301					ND	
93 Isopropylbenzene	105		11.411					ND	
94 Cyclohexanone	55		11.494					ND	
96 1,1,2,2-Tetrachloroethane	83		11.715					ND	
95 Bromobenzene	156		11.721					ND	
97 trans-1,4-Dichloro-2-buten	53		11.751					ND	
98 1,2,3-Trichloropropane	110		11.770					ND	
99 N-Propylbenzene	120		11.824					ND	
100 2-Chlorotoluene	126		11.916					ND	
101 3-Chlorotoluene	126		11.983					ND	
102 1,3,5-Trimethylbenzene	105		12.013					ND	
103 4-Chlorotoluene	126		12.037					ND	
104 tert-Butylbenzene	119		12.329					ND	
105 Pentachloroethane	167		12.352					ND	
106 1,2,4-Trimethylbenzene	105		12.384					ND	
107 1,2-dichloro-4-(trifluorom	214		12.421					ND	
108 sec-Butylbenzene	105		12.548					ND	
110 4-Isopropyltoluene	119		12.706					ND	
113 2,4-Dichloro-1-(triflourom	214		12.792					ND	
114 2,5-Dichlorobenzotrifluori	214		12.834					ND	
115 Benzyl chloride	91		12.881					ND	
116 n-Butylbenzene	91		13.114					ND	
117 1,2-Dichlorobenzene	146		13.126					ND	
118 1,2-Dibromo-3-Chloropropan	75		13.917					ND	
119 2,4- & 2,5- & 2,6- Dichlor	125		14.063					ND	
120 1,3,5-Trichlorobenzene	180		14.110					ND	
121 2,3- & 3,4- Dichlorotoluen	125		14.477					ND	
122 1,2,4-Trichlorobenzene	180		14.744					ND	
123 Hexachlorobutadiene	225		14.890					ND	
125 1,2,3-Trichlorobenzene	180		15.231					ND	
128 2-Methylnaphthalene	142	16.161	16.154	0.007	1	348			NC
150 Tert-butyl ethyl ether (TI	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
151 Tert-amyl methyl ether (TI	1		0.000					ND	
143 2,5-Dichlorotoluene	1		0.000					ND	
149 Isopropyl ether TIC	1		0.000					ND	
144 2,4-Dichlorotoluene	1		0.000					ND	
147 2,6-Dichlorotoluene	1		0.000					ND	
146 3,4-Dichlorotoluene	1		0.000					ND	
153 1,2 Epoxybutane TIC	1		0.000					ND	
145 2,3-Dichlorotoluene	1		0.000					ND	
S 131 Xylenes, Total	106		1.000					ND	
S 130 1,2-Dichloroethene, Total	96		1.000					ND	
S 132 1,3-Dichloropropene, Total	1		0.000					ND	
T 135 Mesityl oxide TIC	83		0.000					ND	
T 134 Methyl n-amyl ketone TIC	43		0.000					ND	
T 133 Tetrahydrofuran TIC	42		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

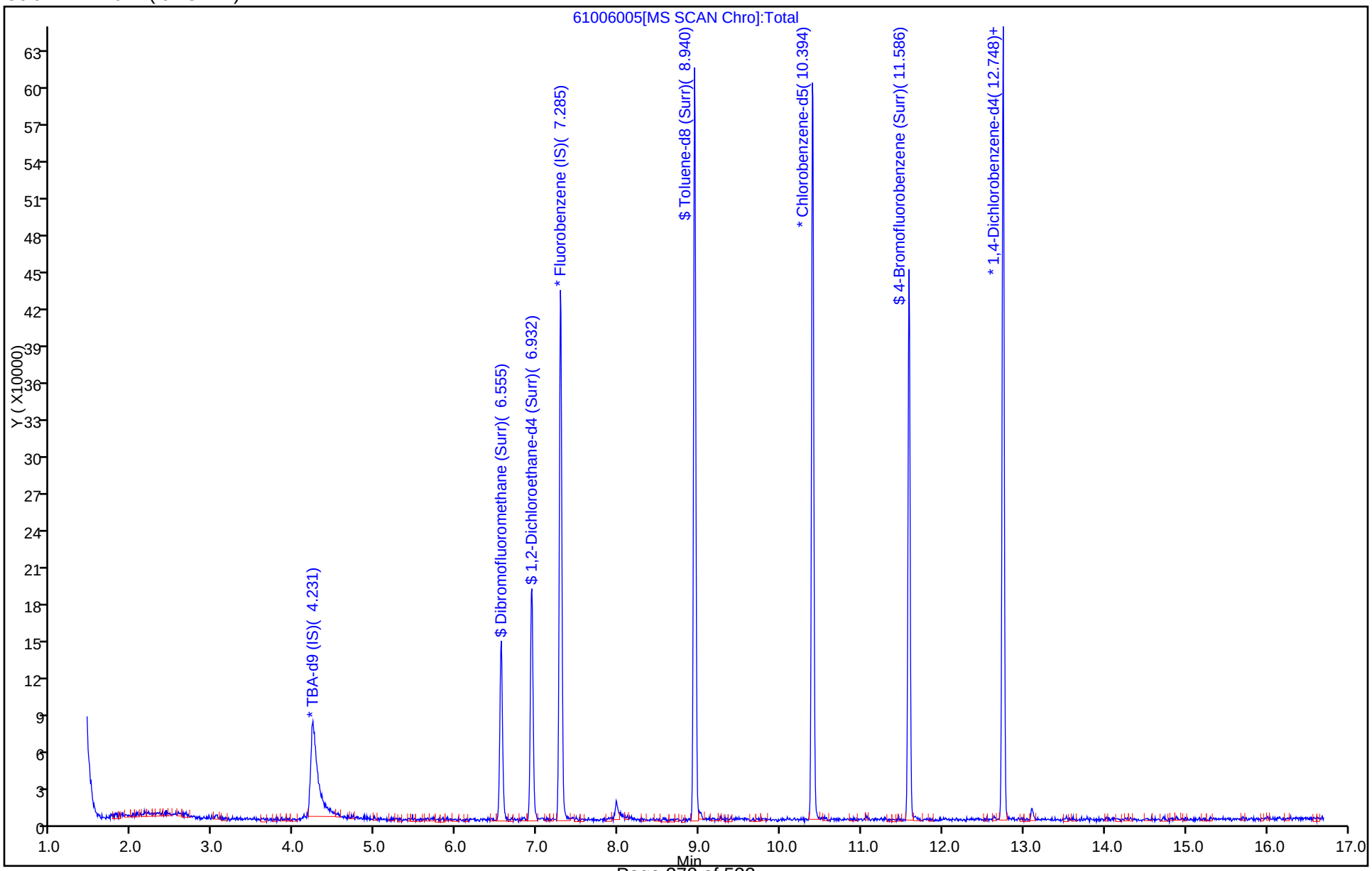
Report Date: 06-Oct-2015 13:54:44 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006005.D

Injection Date:	06-Oct-2015 13:28:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_LL_CHHP6	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.: 180-48259-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-156189/5

Matrix: Water | Lab File ID: 61007005.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 14:07

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.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-156189/5

Matrix: Water Lab File ID: 61007005.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2015 14:07

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.: 156189 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		64-135
2037-26-5	Toluene-d8 (Surr)	102		71-118
460-00-4	4-Bromofluorobenzene (Surr)	86		70-118
1868-53-7	Dibromofluoromethane (Surr)	101		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007005.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-Oct-2015 14:07:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0008874-005
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 07-Oct-2015 14:36:30 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: fergusond Date: 07-Oct-2015 14:36:29

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	4.224	4.245	-0.021	92	185013	1000.0	1000.0	
*	2 Fluorobenzene (IS)	96	7.290	7.281	0.009	97	465495	50.0	50.0	
*	3 Chlorobenzene-d5	119	10.398	10.396	0.002	90	112798	50.0	50.0	
*	4 1,4-Dichlorobenzene-d4	152	12.746	12.750	-0.004	98	182602	50.0	50.0	
$	5 Dibromofluoromethane (Surr	113	6.553	6.551	0.002	93	107821	50.0	50.3	
$	6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.928	0.003	70	174216	50.0	50.4	
$	7 Toluene-d8 (Surr)	98	8.944	8.942	0.002	94	452122	50.0	50.8	
$	8 4-Bromofluorobenzene (Surr	95	11.585	11.588	-0.004	86	169915	50.0	43.0	
	11 Dichlorodifluoromethane	85		1.605					ND	
	12 Chloromethane	50		1.757					ND	
	13 Vinyl chloride	62		1.903					ND	
	14 Butadiene	39		1.933					ND	
	15 Bromomethane	94		2.232					ND	
	17 Dichlorofluoromethane	67		2.651					ND	
	18 Trichlorofluoromethane	101		2.694					ND	
	19 Ethanol	45		2.928					ND	
	20 Ethyl ether	59		3.047					ND	
	21 Acrolein	56		3.211					ND	
	22 1,1-Dichloroethene	96		3.339					ND	
	23 1,1,2-Trichloro-1,2,2-trif	101		3.412					ND	
	24 Acetone	43		3.418					ND	
	25 Iodomethane	142		3.533					ND	
	26 Carbon disulfide	76		3.625					ND	
	27 Isopropyl alcohol	45		3.683					ND	
	28 Acetonitrile	40		3.841					ND	
	29 3-Chloro-1-propene	76		3.911					ND	
	30 Methyl acetate	43		3.923					ND	
	32 2-Methyl-2-propanol	59		4.379					ND	
	33 Acrylonitrile	53		4.501					ND	
	34 trans-1,2-Dichloroethene	96		4.568					ND	
	35 Methyl tert-butyl ether	73		4.574					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63		5.188					ND	
39 2-Chloro-1,3-butadiene	53		5.295					ND	
40 Isopropyl ether	45		5.295					ND	
41 Tert-butyl ethyl ether	59		5.769					ND	
43 cis-1,2-Dichloroethene	96		5.936					ND	
42 2,2-Dichloropropane	77		5.942					ND	
44 2-Butanone (MEK)	43		5.949					ND	
45 Propionitrile	54		6.013					ND	
46 Ethyl acetate	43		6.025					ND	
47 Methacrylonitrile	41		6.195					ND	
48 Chlorobromomethane	128		6.222					ND	
49 Tetrahydrofuran	42		6.241					ND	
50 Chloroform	83		6.368					ND	
51 1,1,1-Trichloroethane	97		6.539					ND	
52 Cyclohexane	56		6.612					ND	
53 Carbon tetrachloride	117		6.709					ND	
54 1,1-Dichloropropene	75		6.727					ND	
55 Isobutyl alcohol	41		6.904					ND	
56 Benzene	78		6.940					ND	
57 1,2-Dichloroethane	62		7.013					ND	
148 Isooctane	57		7.102					ND	
58 Tert-amyl methyl ether	73		7.126					ND	
59 n-Heptane	43		7.305					ND	
60 n-Butanol	56		7.606					ND	
61 Trichloroethene	130		7.676					ND	
62 Ethyl acrylate	55		7.789					ND	
63 Methylcyclohexane	83		7.920					ND	
64 1,2-Dichloropropane	63		7.950					ND	
65 1,4-Dioxane	88		8.029					ND	
66 Methyl methacrylate	69		8.032					ND	
67 Dibromomethane	93		8.035					ND	
68 Dichlorobromomethane	83		8.230					ND	
69 2-Nitropropane	41		8.446					ND	
70 2-Chloroethyl vinyl ether	63		8.530					ND	
71 cis-1,3-Dichloropropene	75		8.674					ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826					ND	
73 Toluene	91		9.009					ND	
74 trans-1,3-Dichloropropene	75		9.252					ND	
75 Ethyl methacrylate	69		9.313					ND	
77 Tetrachloroethene	164		9.526					ND	
78 1,3-Dichloropropane	76		9.605					ND	
79 2-Hexanone	43		9.659					ND	
80 n-Butyl acetate	43		9.784					ND	
81 Chlorodibromomethane	129		9.824					ND	
82 Ethylene Dibromide	107		9.939					ND	
83 3-Chlorobenzotrifluoride	180		10.390					ND	
84 Chlorobenzene	112		10.426					ND	
85 4-Chlorobenzotrifluoride	180		10.481					ND	
87 Ethylbenzene	106		10.523					ND	
86 1,1,1,2-Tetrachloroethane	131		10.523					ND	
88 m-Xylene & p-Xylene	106		10.657					ND	
89 o-Xylene	106		11.040					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
91 Bromoform	173		11.241					ND	
129 Cyclohexanol	57		11.246					ND	
92 2-Chlorobenzotrifluoride	180		11.302					ND	
93 Isopropylbenzene	105		11.405					ND	
94 Cyclohexanone	55		11.494					ND	
96 1,1,2,2-Tetrachloroethane	83		11.716					ND	
95 Bromobenzene	156		11.722					ND	
97 trans-1,4-Dichloro-2-buten	53		11.746					ND	
98 1,2,3-Trichloropropane	110		11.770					ND	
99 N-Propylbenzene	120		11.825					ND	
100 2-Chlorotoluene	126		11.910					ND	
101 3-Chlorotoluene	126		11.977					ND	
102 1,3,5-Trimethylbenzene	105		12.008					ND	
103 4-Chlorotoluene	126		12.038					ND	
104 tert-Butylbenzene	119		12.324					ND	
105 Pentachloroethane	167		12.352					ND	
106 1,2,4-Trimethylbenzene	105		12.385					ND	
107 1,2-dichloro-4-(trifluorom	214		12.421					ND	
108 sec-Butylbenzene	105		12.549					ND	
109 1,3-Dichlorobenzene	146		12.665					ND	
110 4-Isopropyltoluene	119		12.707					ND	
111 1,4-Dichlorobenzene	146		12.774					ND	
113 2,4-Dichloro-1-(triflourom	214		12.792					ND	
112 1,2,3-Trimethylbenzene	105		12.796					ND	
114 2,5-Dichlorobenzotrifluori	214		12.835					ND	
115 Benzyl chloride	91		12.881					ND	
116 n-Butylbenzene	91		13.115					ND	
117 1,2-Dichlorobenzene	146		13.127					ND	
118 1,2-Dibromo-3-Chloropropan	75		13.918					ND	
119 2,4- & 2,5- & 2,6- Dichlor	125		14.058					ND	
120 1,3,5-Trichlorobenzene	180		14.110					ND	
121 2,3- & 3,4- Dichlorotoluen	125		14.478					ND	
122 1,2,4-Trichlorobenzene	180		14.739					ND	
125 1,2,3-Trichlorobenzene	180		15.232					ND	
126 2,4,5-Trichlorotoluene	159		16.011					ND	
127 2,3,6-Trichlorotoluene	159		16.108					ND	
128 2-Methylnaphthalene	142		16.154					ND	
153 1,2 Epoxybutane TIC	1		0.000					ND	
145 2,3-Dichlorotoluene	1		0.000					ND	
147 2,6-Dichlorotoluene	1		0.000					ND	
146 3,4-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
150 Tert-butyl ethyl ether (TI	1		0.000					ND	
151 Tert-amyl methyl ether (TI	1		0.000					ND	
144 2,4-Dichlorotoluene	1		0.000					ND	
149 Isopropyl ether TIC	1		0.000					ND	
143 2,5-Dichlorotoluene	1		0.000					ND	
S 130 1,2-Dichloroethene, Total	96		1.000					ND	
S 131 Xylenes, Total	106		1.000					ND	
S 132 1,3-Dichloropropene, Total	1		0.000					ND	
T 133 Tetrahydrofuran TIC	42		0.000					ND	
T 134 Methyl n-amyl ketone TIC	43		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
T 135 Mesityl oxide TIC	83		0.000					ND	

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

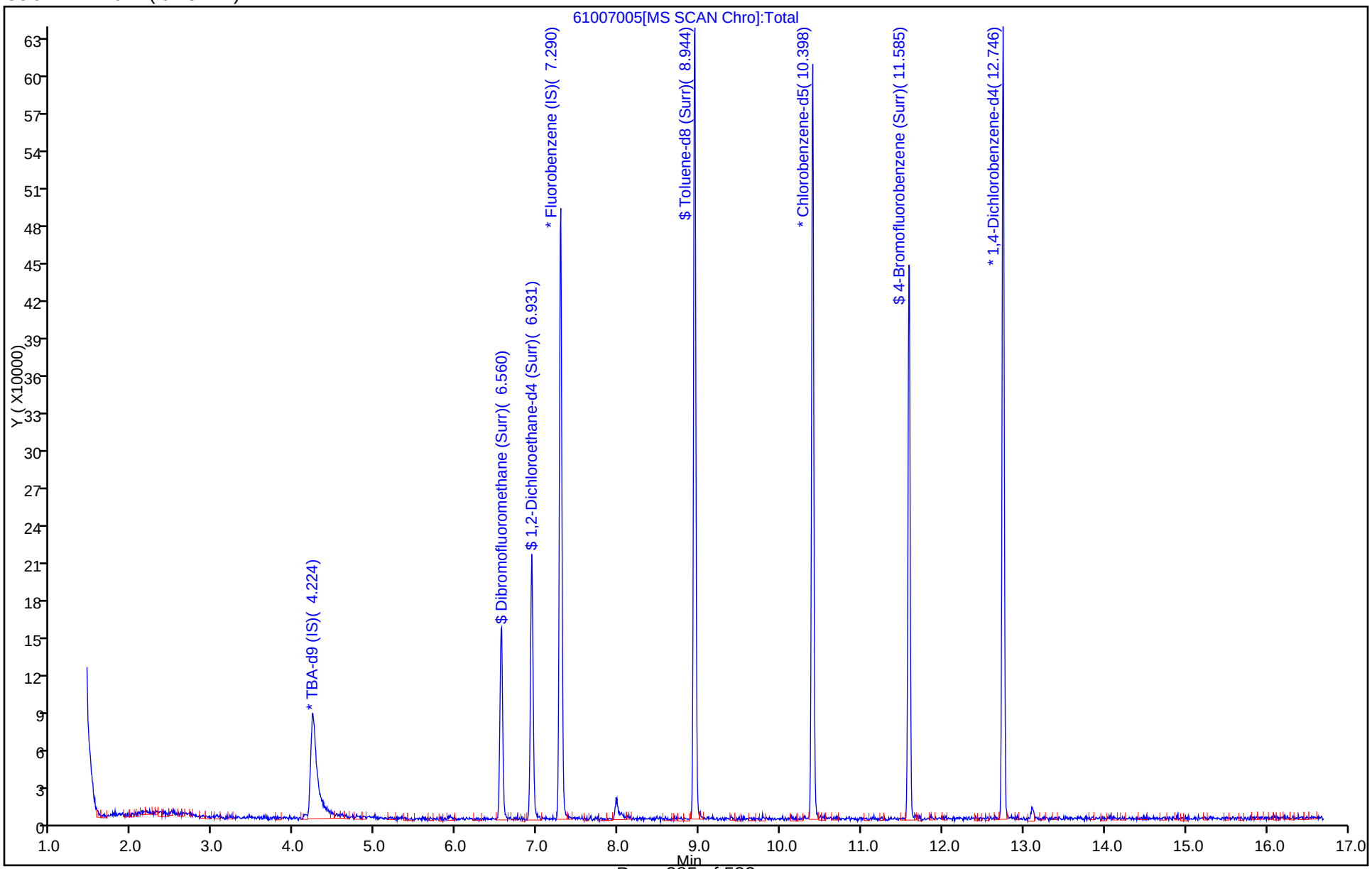
Report Date: 07-Oct-2015 14:36:31 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007005.D

Injection Date:	07-Oct-2015 14:07:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_LL_CHHP6	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.: 180-48259-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155869/7

Matrix: Water | Lab File ID: 61005007.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/05/2015 12:29

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.: 155869 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	12.9		1.0	0.28
75-01-4	Vinyl chloride	10.9		1.0	0.23
74-83-9	Bromomethane	8.96		1.0	0.31
75-00-3	Chloroethane	10.8		1.0	0.21
75-35-4	1,1-Dichloroethene	9.60		1.0	0.30
67-64-1	Acetone	23.0		5.0	2.5
75-15-0	Carbon disulfide	9.74		1.0	0.21
75-09-2	Methylene Chloride	9.67		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.82		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.56		1.0	0.18
75-34-3	1,1-Dichloroethane	10.7		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.33		1.0	0.24
74-97-5	Bromochloromethane	11.1		1.0	0.18
78-93-3	2-Butanone (MEK)	22.5		5.0	0.55
67-66-3	Chloroform	9.92		1.0	0.17
71-55-6	1,1,1-Trichloroethane	9.71		1.0	0.29
56-23-5	Carbon tetrachloride	11.2		1.0	0.14
71-43-2	Benzene	10.9		1.0	0.11
107-06-2	1,2-Dichloroethane	10.6		1.0	0.21
79-01-6	Trichloroethene	11.7		1.0	0.14
78-87-5	1,2-Dichloropropane	11.3		1.0	0.095
75-27-4	Bromodichloromethane	9.91		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	10.6		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	23.0		5.0	0.53
108-88-3	Toluene	10.7		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	10.3		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.8		1.0	0.20
127-18-4	Tetrachloroethene	11.8		1.0	0.15
591-78-6	2-Hexanone	25.9		5.0	0.16
124-48-1	Dibromochloromethane	11.6		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.8		1.0	0.18
108-90-7	Chlorobenzene	10.9		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	11.7		1.0	0.28
100-41-4	Ethylbenzene	10.7		1.0	0.23
1330-20-7	Xylenes, Total	21.3		3.0	0.49
100-42-5	Styrene	11.4		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155869/7

Matrix: Water | Lab File ID: 61005007.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/05/2015 12:29

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.: 155869 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	12.6		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.5		1.0	0.20
107-13-1	Acrylonitrile	128		20	0.55
123-91-1	1,4-Dioxane	207		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		64-135
2037-26-5	Toluene-d8 (Surr)	111		71-118
460-00-4	4-Bromofluorobenzene (Surr)	101		70-118
1868-53-7	Dibromofluoromethane (Surr)	106		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005007.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 05-Oct-2015 12:29:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0008826-007
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 06-Oct-2015 09:37:33 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: fergusond Date: 05-Oct-2015 12:59:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.242	4.230	0.012	86	175396	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.284	7.290	-0.006	98	416212	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.399	10.399	0.000	90	93412	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.747	0.000	95	168494	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.554	6.550	0.004	93	101236	50.0	52.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.928	0.003	70	162602	50.0	52.6	
$ 7 Toluene-d8 (Surr)	98	8.939	8.941	-0.002	94	410320	50.0	55.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.587	-0.002	86	165225	50.0	50.5	
11 Dichlorodifluoromethane	85	1.602	1.604	-0.002	99	139921	50.0	48.5	
12 Chloromethane	50	1.760	1.769	-0.009	100	160104	50.0	64.5	
13 Vinyl chloride	62	1.894	1.903	-0.009	98	145276	50.0	54.3	
14 Butadiene	39	1.937	1.939	-0.003	92	145920	50.0	58.2	
15 Bromomethane	94	2.235	2.243	-0.008	90	64727	50.0	44.8	
16 Chloroethane	64	2.381	2.377	0.004	100	98564	50.0	54.0	
17 Dichlorofluoromethane	67	2.654	2.651	0.003	99	216238	50.0	50.9	
18 Trichlorofluoromethane	101	2.679	2.681	-0.002	98	178188	50.0	52.6	
20 Ethyl ether	59	3.038	3.046	-0.008	96	136367	50.0	56.8	
21 Acrolein	56	3.220	3.211	0.009	99	36244	150.0	138.3	
22 1,1-Dichloroethene	96	3.342	3.326	0.016	96	100523	50.0	48.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.421	3.405	0.016	94	115343	50.0	52.1	
24 Acetone	43	3.427	3.430	-0.003	81	84789	100.0	115.1	
25 Iodomethane	142	3.543	3.533	0.010	99	151743	50.0	54.0	
26 Carbon disulfide	76	3.634	3.630	0.004	100	264440	50.0	48.7	
29 3-Chloro-1-propene	76	3.920	3.910	0.010	87	55552	50.0	47.0	
30 Methyl acetate	43	3.926	3.922	0.004	99	571348	250.0	330.9	
31 Methylene Chloride	84	4.127	4.117	0.010	97	140801	50.0	48.3	
32 2-Methyl-2-propanol	59	4.376	4.366	0.010	90	104463	500.0	529.3	
33 Acrylonitrile	53	4.498	4.500	-0.002	100	555489	500.0	638.2	
34 trans-1,2-Dichloroethene	96	4.565	4.555	0.010	91	118755	50.0	49.1	
35 Methyl tert-butyl ether	73	4.571	4.573	-0.002	97	346142	50.0	47.8	
36 Hexane	57	4.984	4.987	-0.003	94	184999	50.0	56.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.197	5.194	0.003	98	231931	50.0	53.6	
38 Vinyl acetate	43	5.240	5.236	0.004	98	180373	50.0	51.6	
42 2,2-Dichloropropane	77	5.939	5.936	0.003	59	99957	50.0	45.7	
43 cis-1,2-Dichloroethene	96	5.939	5.942	-0.003	87	122675	50.0	46.7	
44 2-Butanone (MEK)	43	5.946	5.948	-0.002	65	113283	100.0	112.7	
48 Chlorobromomethane	128	6.231	6.228	0.003	94	58695	50.0	55.6	
49 Tetrahydrofuran	42	6.238	6.246	-0.008	86	79619	100.0	117.6	
50 Chloroform	83	6.371	6.368	0.003	94	213042	50.0	49.6	
51 1,1,1-Trichloroethane	97	6.536	6.532	0.004	96	154155	50.0	48.6	
52 Cyclohexane	56	6.615	6.617	-0.002	94	225777	50.0	55.5	
53 Carbon tetrachloride	117	6.712	6.715	-0.003	95	125278	50.0	55.9	
54 1,1-Dichloropropene	75	6.724	6.727	-0.003	93	172892	50.0	50.6	
55 Isobutyl alcohol	41	6.901	6.897	0.004	88	98138	1250.0	1629.8	
56 Benzene	78	6.943	6.940	0.003	97	530067	50.0	54.6	
57 1,2-Dichloroethane	62	7.016	7.013	0.003	98	207189	50.0	53.0	
59 n-Heptane	43	7.308	7.305	0.003	93	174338	50.0	66.1	
61 Trichloroethene	130	7.679	7.676	0.003	96	118137	50.0	58.4	
63 Methylcyclohexane	83	7.923	7.925	-0.002	94	198329	50.0	48.3	
64 1,2-Dichloropropane	63	7.953	7.950	0.003	94	131087	50.0	56.6	
65 1,4-Dioxane	88	8.032	8.023	0.009	37	23647	1000.0	1033.8	
67 Dibromomethane	93	8.038	8.035	0.003	96	75809	50.0	53.9	
68 Dichlorobromomethane	83	8.227	8.229	-0.002	98	130970	50.0	49.5	
71 cis-1,3-Dichloropropene	75	8.677	8.680	-0.003	91	153612	50.0	52.9	
72 4-Methyl-2-pentanone (MIBK	43	8.823	8.826	-0.003	98	221267	100.0	115.2	
73 Toluene	91	9.012	9.008	0.004	98	516509	50.0	53.6	
74 trans-1,3-Dichloropropene	75	9.249	9.257	-0.008	97	126239	50.0	51.6	
75 Ethyl methacrylate	69	9.316	9.312	0.004	92	138062	50.0	53.1	
76 1,1,2-Trichloroethane	97	9.450	9.452	-0.002	95	107341	50.0	53.8	
77 Tetrachloroethene	164	9.529	9.525	0.004	96	97284	50.0	59.2	
78 1,3-Dichloropropane	76	9.608	9.610	-0.002	95	199915	50.0	54.3	
79 2-Hexanone	43	9.656	9.659	-0.003	98	163550	100.0	129.7	
81 Chlorodibromomethane	129	9.821	9.823	-0.002	91	79136	50.0	58.2	
82 Ethylene Dibromide	107	9.936	9.939	-0.003	100	94815	50.0	53.8	
83 3-Chlorobenzotrifluoride	180	10.393	10.395	-0.002	92	173676	50.0	56.3	
84 Chlorobenzene	112	10.423	10.426	-0.003	91	321711	50.0	54.3	
85 4-Chlorobenzotrifluoride	180	10.484	10.486	-0.002	95	171651	50.0	60.0	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.523	-0.003	88	94684	50.0	58.3	
87 Ethylbenzene	106	10.526	10.529	-0.003	99	179231	50.0	53.6	
88 m-Xylene & p-Xylene	106	10.660	10.657	0.003	100	225064	50.0	54.3	
89 o-Xylene	106	11.037	11.040	-0.003	98	215370	50.0	51.9	
90 Styrene	104	11.062	11.058	0.004	95	363812	50.0	57.1	
91 Bromoform	173	11.244	11.247	-0.003	95	45680	50.0	62.9	
92 2-Chlorobenzotrifluoride	180	11.305	11.302	0.003	97	182053	50.0	57.6	
93 Isopropylbenzene	105	11.408	11.411	-0.003	97	532139	50.0	53.6	
96 1,1,2,2-Tetrachloroethane	83	11.713	11.715	-0.002	96	140611	50.0	52.7	
95 Bromobenzene	156	11.725	11.727	-0.002	97	136104	50.0	50.2	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.758	-0.009	78	41580	50.0	48.4	
98 1,2,3-Trichloropropane	110	11.773	11.776	-0.003	86	48349	50.0	46.9	
99 N-Propylbenzene	120	11.828	11.825	0.003	99	144330	50.0	46.3	
100 2-Chlorotoluene	126	11.913	11.916	-0.003	94	127931	50.0	49.4	
101 3-Chlorotoluene	126	11.980	11.977	0.003	97	139011	50.0	51.1	
102 1,3,5-Trimethylbenzene	105	12.011	12.007	0.004	95	480518	50.0	47.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 4-Chlorotoluene	126	12.035	12.038	-0.003	99	138228	50.0	50.5	
104 tert-Butylbenzene	119	12.327	12.324	0.003	93	359954	50.0	44.9	
106 1,2,4-Trimethylbenzene	105	12.382	12.384	-0.002	98	491863	50.0	47.4	
107 1,2-dichloro-4-(trifluorom	214	12.424	12.421	0.003	98	158620	50.0	54.0	
108 sec-Butylbenzene	105	12.546	12.549	-0.003	96	563201	50.0	47.1	
109 1,3-Dichlorobenzene	146	12.668	12.670	-0.002	95	261446	50.0	49.4	
110 4-Isopropyltoluene	119	12.704	12.707	-0.003	96	467581	50.0	46.6	
111 1,4-Dichlorobenzene	146	12.771	12.774	-0.003	91	272649	50.0	50.4	
113 2,4-Dichloro-1-(triflourom	214	12.795	12.786	0.009	96	158853	50.0	54.3	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.828	0.004	97	162158	50.0	49.7	
116 n-Butylbenzene	91	13.112	13.114	-0.002	98	442189	50.0	44.1	
117 1,2-Dichlorobenzene	146	13.124	13.127	-0.003	93	258170	50.0	48.3	
118 1,2-Dibromo-3-Chloropropan	75	13.915	13.911	0.004	74	21407	50.0	43.7	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.061	14.057	0.004	99	663586	150.0	142.7	
121 2,3- & 3,4- Dichlorotoluen	125	14.475	14.477	-0.002	99	481629	100.0	93.9	
122 1,2,4-Trichlorobenzene	180	14.742	14.745	-0.003	94	189220	50.0	45.7	
123 Hexachlorobutadiene	225	14.888	14.891	-0.003	96	79379	50.0	48.7	
124 Naphthalene	128	15.010	15.006	0.004	98	399830	50.0	47.9	
125 1,2,3-Trichlorobenzene	180	15.229	15.225	0.004	95	178343	50.0	46.0	
126 2,4,5-Trichlorotoluene	159	16.008	16.010	-0.002	0	106923	50.0	41.1	
127 2,3,6-Trichlorotoluene	159	16.111	16.107	0.004	95	106580	50.0	43.2	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	95.8	
S 131 Xylenes, Total	106				0		100.0	106.2	
S 132 1,3-Dichloropropene, Total	1				0		100.0	104.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOA2ND_00146	Amount Added:	2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

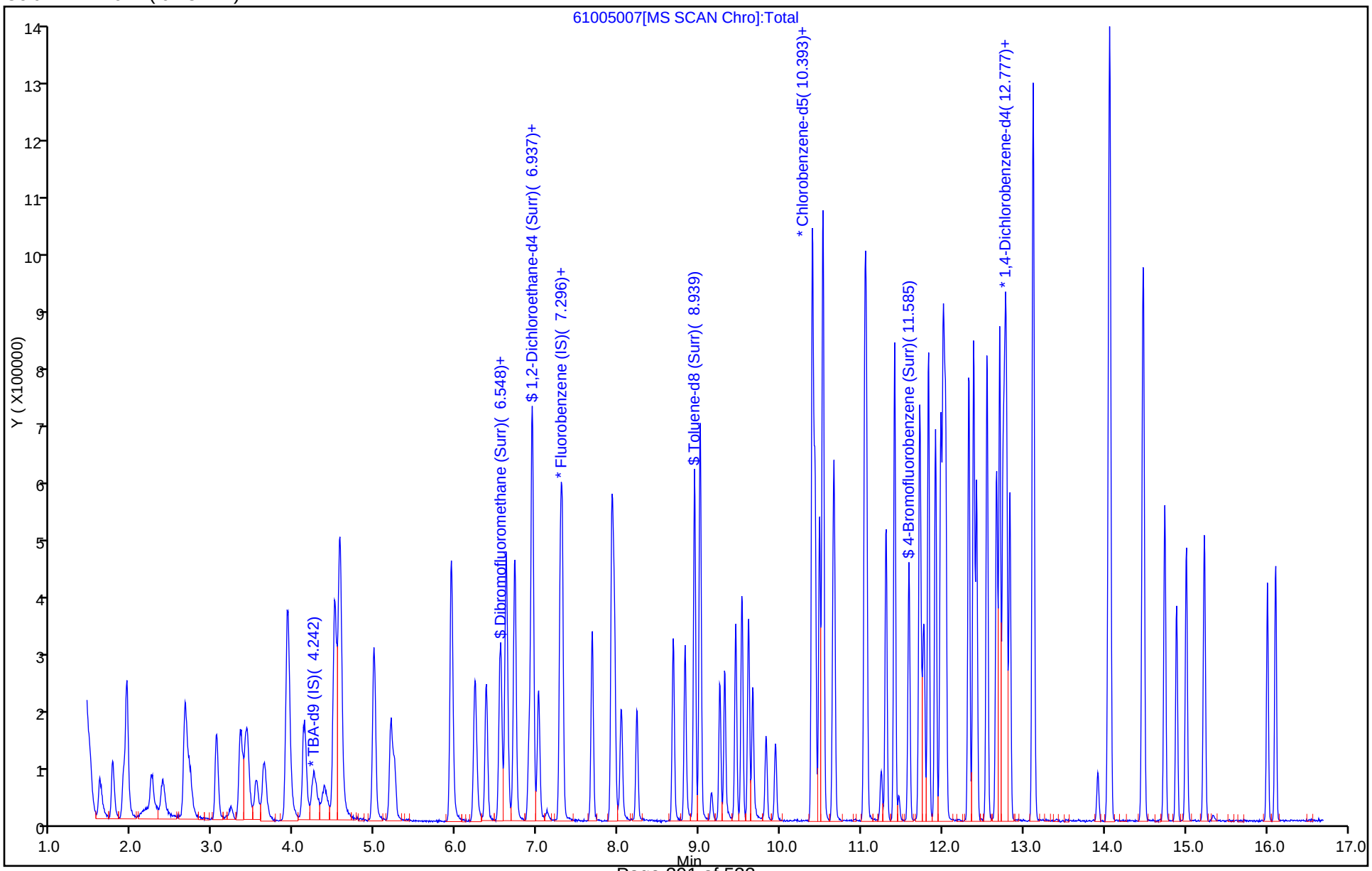
Report Date: 06-Oct-2015 11:09:47 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005007.D

Injection Date:	05-Oct-2015 12:29:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	LCS			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_LL_CHHP6	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.: 180-48259-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-156041/8

Matrix: Water | Lab File ID: 61006008.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 14:54

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.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	12.8		1.0	0.28
75-01-4	Vinyl chloride	11.3		1.0	0.23
74-83-9	Bromomethane	9.06		1.0	0.31
75-00-3	Chloroethane	11.7		1.0	0.21
75-35-4	1,1-Dichloroethene	10.2		1.0	0.30
67-64-1	Acetone	23.5		5.0	2.5
75-15-0	Carbon disulfide	9.60		1.0	0.21
75-09-2	Methylene Chloride	10.6		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	10.3		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.83		1.0	0.18
75-34-3	1,1-Dichloroethane	10.9		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	10.1		1.0	0.24
74-97-5	Bromochloromethane	11.6		1.0	0.18
78-93-3	2-Butanone (MEK)	26.2		5.0	0.55
67-66-3	Chloroform	10.4		1.0	0.17
71-55-6	1,1,1-Trichloroethane	10.2		1.0	0.29
56-23-5	Carbon tetrachloride	10.9		1.0	0.14
71-43-2	Benzene	11.4		1.0	0.11
107-06-2	1,2-Dichloroethane	10.6		1.0	0.21
79-01-6	Trichloroethene	12.0		1.0	0.14
78-87-5	1,2-Dichloropropane	12.0		1.0	0.095
75-27-4	Bromodichloromethane	9.86		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	10.6		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	22.0		5.0	0.53
108-88-3	Toluene	10.8		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	9.72		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.7		1.0	0.20
127-18-4	Tetrachloroethene	11.4		1.0	0.15
591-78-6	2-Hexanone	22.7		5.0	0.16
124-48-1	Dibromochloromethane	10.6		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	11.1		1.0	0.18
108-90-7	Chlorobenzene	11.2		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	11.5		1.0	0.28
100-41-4	Ethylbenzene	10.9		1.0	0.23
1330-20-7	Xylenes, Total	21.6		3.0	0.49
100-42-5	Styrene	11.6		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-156041/8

Matrix: Water | Lab File ID: 61006008.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/06/2015 14:54

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.: 156041 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	11.3		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.6		1.0	0.20
107-13-1	Acrylonitrile	138		20	0.55
123-91-1	1,4-Dioxane	202		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-135
2037-26-5	Toluene-d8 (Surr)	106		71-118
460-00-4	4-Bromofluorobenzene (Surr)	96		70-118
1868-53-7	Dibromofluoromethane (Surr)	102		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006008.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Oct-2015 14:54:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0008851-008
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 07-Oct-2015 09:16:33 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: fergusond Date: 06-Oct-2015 15:19:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.248	4.230	0.018	89	190442	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	97	412905	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.399	-0.001	92	98302	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.747	0.000	96	180733	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.554	6.556	-0.002	93	97347	50.0	51.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.933	-0.002	74	155827	50.0	50.8	
$ 7 Toluene-d8 (Surr)	98	8.944	8.941	0.003	93	411436	50.0	53.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.581	0.004	86	165993	50.0	48.2	
11 Dichlorodifluoromethane	85	1.608	1.610	-0.002	98	130945	50.0	45.8	
12 Chloromethane	50	1.760	1.774	-0.014	99	157115	50.0	63.8	
13 Vinyl chloride	62	1.900	1.902	-0.002	99	150263	50.0	56.6	
14 Butadiene	39	1.936	1.945	-0.009	94	149985	50.0	60.3	
15 Bromomethane	94	2.240	2.249	-0.009	91	64891	50.0	45.3	
16 Chloroethane	64	2.380	2.389	-0.009	98	105630	50.0	58.3	
17 Dichlorofluoromethane	67	2.660	2.657	0.003	98	215093	50.0	51.0	
18 Trichlorofluoromethane	101	2.684	2.699	-0.015	83	161669	50.0	48.1	
20 Ethyl ether	59	3.049	3.046	0.003	93	138336	50.0	58.0	
21 Acrolein	56	3.226	3.222	0.004	97	40865	150.0	157.2	
22 1,1-Dichloroethene	96	3.342	3.338	0.004	95	106390	50.0	51.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.415	3.411	0.003	93	113289	50.0	51.6	
24 Acetone	43	3.433	3.423	0.010	97	85851	100.0	117.5	
25 Iodomethane	142	3.536	3.539	-0.003	99	152910	50.0	54.8	
26 Carbon disulfide	76	3.634	3.630	0.004	100	258420	50.0	48.0	
29 3-Chloro-1-propene	76	3.926	3.916	0.010	87	55589	50.0	47.4	
30 Methyl acetate	43	3.932	3.928	0.004	98	601313	250.0	351.0	
31 Methylene Chloride	84	4.132	4.129	0.003	97	152240	50.0	53.2	
32 2-Methyl-2-propanol	59	4.376	4.384	-0.008	90	109580	500.0	511.3	
33 Acrylonitrile	53	4.503	4.500	0.003	99	597856	500.0	692.4	
35 Methyl tert-butyl ether	73	4.576	4.567	0.009	97	353116	50.0	49.1	
34 trans-1,2-Dichloroethene	96	4.570	4.567	0.003	67	124050	50.0	51.7	
36 Hexane	57	4.984	4.993	-0.009	94	188929	50.0	58.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.197	5.193	0.004	97	233753	50.0	54.4	
38 Vinyl acetate	43	5.240	5.242	-0.002	98	177779	50.0	51.3	
44 2-Butanone (MEK)	43	5.945	5.942	0.003	61	130569	100.0	131.0	
42 2,2-Dichloropropane	77	5.945	5.942	0.003	59	110978	50.0	51.1	
43 cis-1,2-Dichloroethene	96	5.945	5.942	0.003	85	132210	50.0	50.7	
48 Chlorobromomethane	128	6.225	6.228	-0.003	95	60533	50.0	57.8	
49 Tetrahydrofuran	42	6.249	6.240	0.009	89	90668	100.0	135.0	
50 Chloroform	83	6.371	6.374	-0.003	94	220712	50.0	51.8	
51 1,1,1-Trichloroethane	97	6.541	6.538	0.003	97	160716	50.0	51.0	
52 Cyclohexane	56	6.620	6.617	0.003	93	227542	50.0	56.4	
53 Carbon tetrachloride	117	6.718	6.714	0.004	94	121206	50.0	54.5	
54 1,1-Dichloropropene	75	6.730	6.726	0.004	93	174601	50.0	51.5	
55 Isobutyl alcohol	41	6.900	6.903	-0.003	92	106624	1250.0	1784.9	
56 Benzene	78	6.943	6.939	0.004	98	547104	50.0	56.9	
57 1,2-Dichloroethane	62	7.022	7.018	0.004	97	205141	50.0	52.9	
59 n-Heptane	43	7.314	7.310	0.004	91	168781	50.0	64.5	
61 Trichloroethene	130	7.679	7.675	0.004	96	120378	50.0	60.0	
63 Methylcyclohexane	83	7.922	7.925	-0.003	94	200577	50.0	49.2	
64 1,2-Dichloropropane	63	7.953	7.949	0.004	89	138198	50.0	60.1	
67 Dibromomethane	93	8.038	8.034	0.004	95	74008	50.0	53.0	
65 1,4-Dioxane	88	8.032	8.034	-0.002	41	22888	1000.0	1008.6	
68 Dichlorobromomethane	83	8.227	8.229	-0.002	98	129288	50.0	49.3	
71 cis-1,3-Dichloropropene	75	8.677	8.673	0.004	92	153076	50.0	53.1	
72 4-Methyl-2-pentanone (MIBK	43	8.829	8.825	0.004	96	222211	100.0	110.0	
73 Toluene	91	9.011	9.008	0.003	99	548301	50.0	54.1	
74 trans-1,3-Dichloropropene	75	9.255	9.251	0.004	98	125077	50.0	48.6	
75 Ethyl methacrylate	69	9.315	9.312	0.003	92	145062	50.0	53.0	
76 1,1,2-Trichloroethane	97	9.449	9.452	-0.003	94	111965	50.0	53.4	
77 Tetrachloroethene	164	9.528	9.525	0.003	96	98286	50.0	56.8	
78 1,3-Dichloropropane	76	9.607	9.610	-0.003	95	206509	50.0	53.3	
79 2-Hexanone	43	9.656	9.659	-0.003	98	150293	100.0	113.3	
81 Chlorodibromomethane	129	9.826	9.823	0.003	91	75716	50.0	52.9	
82 Ethylene Dibromide	107	9.942	9.938	0.004	99	103402	50.0	55.7	
83 3-Chlorobenzotrifluoride	180	10.398	10.395	0.003	93	172839	50.0	53.2	
84 Chlorobenzene	112	10.429	10.425	0.004	92	347664	50.0	55.8	
85 4-Chlorobenzotrifluoride	180	10.483	10.486	-0.003	95	163881	50.0	54.4	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.522	-0.002	87	98432	50.0	57.6	
87 Ethylbenzene	106	10.526	10.529	-0.003	99	190961	50.0	54.3	
88 m-Xylene & p-Xylene	106	10.660	10.662	-0.002	100	244138	50.0	55.9	
89 o-Xylene	106	11.043	11.040	0.003	98	226358	50.0	51.8	
90 Styrene	104	11.061	11.058	0.003	94	388205	50.0	57.9	
91 Bromoform	173	11.244	11.246	-0.002	95	43116	50.0	56.4	
92 2-Chlorobenzotrifluoride	180	11.305	11.301	0.004	96	180589	50.0	54.3	
93 Isopropylbenzene	105	11.408	11.411	-0.003	97	574603	50.0	55.0	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.715	-0.003	96	149030	50.0	53.1	
95 Bromobenzene	156	11.725	11.721	0.004	96	143778	50.0	49.5	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.751	-0.002	75	43357	50.0	47.1	
98 1,2,3-Trichloropropane	110	11.773	11.770	0.003	87	54431	50.0	49.3	
99 N-Propylbenzene	120	11.828	11.824	0.004	99	159561	50.0	47.7	
100 2-Chlorotoluene	126	11.913	11.916	-0.003	95	137451	50.0	49.5	
101 3-Chlorotoluene	126	11.980	11.983	-0.002	96	141410	50.0	48.5	
102 1,3,5-Trimethylbenzene	105	12.010	12.013	-0.003	93	521584	50.0	47.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 4-Chlorotoluene	126	12.035	12.037	-0.002	99	144626	50.0	49.3	
104 tert-Butylbenzene	119	12.327	12.329	-0.002	92	377820	50.0	44.0	
106 1,2,4-Trimethylbenzene	105	12.382	12.384	-0.002	99	528627	50.0	47.5	
107 1,2-dichloro-4-(trifluorom	214	12.424	12.421	0.004	98	154200	50.0	48.9	
108 sec-Butylbenzene	105	12.546	12.548	-0.002	96	602233	50.0	46.9	
109 1,3-Dichlorobenzene	146	12.667	12.670	-0.003	96	280859	50.0	49.5	
110 4-Isopropyltoluene	119	12.704	12.706	-0.002	96	498277	50.0	46.3	
111 1,4-Dichlorobenzene	146	12.771	12.767	0.004	90	284931	50.0	49.1	
113 2,4-Dichloro-1-(triflourom	214	12.795	12.792	0.003	96	161701	50.0	51.6	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.834	-0.002	96	163323	50.0	46.6	
116 n-Butylbenzene	91	13.118	13.114	0.004	98	461472	50.0	42.9	
117 1,2-Dichlorobenzene	146	13.124	13.126	-0.002	92	277381	50.0	48.4	
118 1,2-Dibromo-3-Chloropropan	75	13.915	13.917	-0.002	72	20327	50.0	38.7	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.061	14.063	-0.002	99	677607	150.0	135.9	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.477	-0.003	99	494482	100.0	89.9	
122 1,2,4-Trichlorobenzene	180	14.742	14.744	-0.002	94	199254	50.0	44.9	
123 Hexachlorobutadiene	225	14.894	14.890	0.004	95	87588	50.0	50.1	
124 Naphthalene	128	15.010	15.006	0.004	98	428317	50.0	47.8	
125 1,2,3-Trichlorobenzene	180	15.229	15.231	-0.002	94	185243	50.0	44.6	
126 2,4,5-Trichlorotoluene	159	16.007	16.010	-0.003	0	104305	50.0	37.4	
127 2,3,6-Trichlorotoluene	159	16.111	16.107	0.004	96	114233	50.0	43.2	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	102.4	
S 131 Xylenes, Total	106				0		100.0	107.8	
S 132 1,3-Dichloropropene, Total	1				0		100.0	101.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOA2ND_00146	Amount Added:	2.00	Units: uL		
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL		
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL		
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent	
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent	

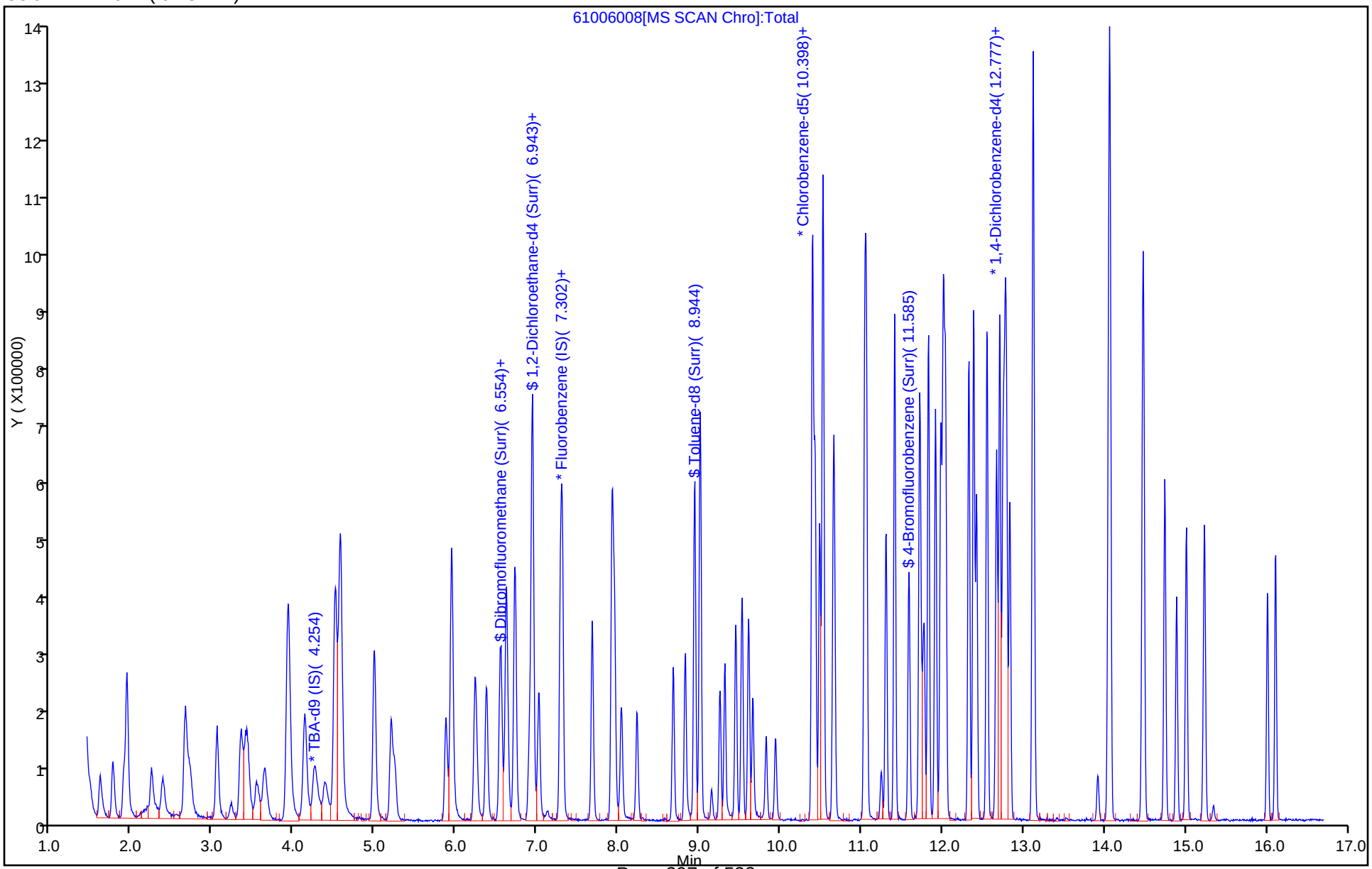
Report Date: 07-Oct-2015 10:57:28 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151006-8851.b\61006008.D

Injection Date:	06-Oct-2015 14:54:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	LCS			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_LL_CHHP6	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.: 180-48259-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-156189/8

Matrix: Water | Lab File ID: 61007008.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 15:36

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.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	11.3		1.0	0.28
75-01-4	Vinyl chloride	9.97		1.0	0.23
74-83-9	Bromomethane	8.04		1.0	0.31
75-00-3	Chloroethane	8.97		1.0	0.21
75-35-4	1,1-Dichloroethene	8.60		1.0	0.30
67-64-1	Acetone	20.8		5.0	2.5
75-15-0	Carbon disulfide	8.38		1.0	0.21
75-09-2	Methylene Chloride	8.72		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.87		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.96		1.0	0.18
75-34-3	1,1-Dichloroethane	9.57		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.99		1.0	0.24
74-97-5	Bromochloromethane	10.0		1.0	0.18
78-93-3	2-Butanone (MEK)	24.0		5.0	0.55
67-66-3	Chloroform	8.87		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.02		1.0	0.29
56-23-5	Carbon tetrachloride	8.84		1.0	0.14
71-43-2	Benzene	9.97		1.0	0.11
107-06-2	1,2-Dichloroethane	9.18		1.0	0.21
79-01-6	Trichloroethene	10.4		1.0	0.14
78-87-5	1,2-Dichloropropane	10.7		1.0	0.095
75-27-4	Bromodichloromethane	9.15		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	9.63		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	20.8		5.0	0.53
108-88-3	Toluene	10.1		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.94		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.90		1.0	0.20
127-18-4	Tetrachloroethene	10.2		1.0	0.15
591-78-6	2-Hexanone	20.7		5.0	0.16
124-48-1	Dibromochloromethane	9.99		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.2		1.0	0.18
108-90-7	Chlorobenzene	10.2		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	10.2		1.0	0.28
100-41-4	Ethylbenzene	9.50		1.0	0.23
1330-20-7	Xylenes, Total	19.1		3.0	0.49
100-42-5	Styrene	10.5		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-156189/8

Matrix: Water Lab File ID: 61007008.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2015 15:36

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.: 156189 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	10.8		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.90		1.0	0.20
107-13-1	Acrylonitrile	125		20	0.55
123-91-1	1,4-Dioxane	223		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-135
2037-26-5	Toluene-d8 (Surr)	106		71-118
460-00-4	4-Bromofluorobenzene (Surr)	91		70-118
1868-53-7	Dibromofluoromethane (Surr)	98		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007008.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 07-Oct-2015 15:36:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0008874-008
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 09:01:50 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 07-Oct-2015 15:59:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.254	4.245	0.009	95	207975	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.281	0.009	97	460649	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.396	0.002	89	105123	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.750	-0.004	95	187985	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.554	6.551	0.003	94	104249	50.0	49.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.928	0.003	72	168195	50.0	49.1	
$ 7 Toluene-d8 (Surr)	98	8.944	8.942	0.002	93	441124	50.0	53.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.588	-0.003	85	167135	50.0	45.4	
11 Dichlorodifluoromethane	85	1.602	1.605	-0.003	99	129230	50.0	40.5	
12 Chloromethane	50	1.766	1.757	0.009	100	155775	50.0	56.7	
13 Vinyl chloride	62	1.906	1.903	0.003	98	147577	50.0	49.8	
14 Butadiene	39	1.942	1.933	0.009	92	150149	50.0	54.1	
15 Bromomethane	94	2.246	2.232	0.014	91	64231	50.0	40.2	
16 Chloroethane	64	2.380	2.371	0.009	100	90694	50.0	44.9	
17 Dichlorofluoromethane	67	2.648	2.651	-0.003	98	194348	50.0	41.3	
18 Trichlorofluoromethane	101	2.697	2.694	0.003	82	144273	50.0	38.5	
20 Ethyl ether	59	3.049	3.047	0.002	93	135441	50.0	50.9	
21 Acrolein	56	3.226	3.211	0.015	99	41352	150.0	142.6	
22 1,1-Dichloroethene	96	3.354	3.339	0.015	95	99736	50.0	43.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.408	3.412	-0.004	93	105429	50.0	43.1	
24 Acetone	43	3.433	3.418	0.015	83	84913	100.0	104.2	
25 Iodomethane	142	3.542	3.533	0.009	98	142630	50.0	45.8	
26 Carbon disulfide	76	3.640	3.625	0.015	100	251688	50.0	41.9	
29 3-Chloro-1-propene	76	3.913	3.911	0.002	64	54916	50.0	42.0	
30 Methyl acetate	43	3.925	3.923	0.002	98	615462	250.0	322.1	
31 Methylene Chloride	84	4.126	4.124	0.002	97	142081	50.0	43.6	
32 2-Methyl-2-propanol	59	4.370	4.379	-0.009	91	105276	500.0	449.8	
33 Acrylonitrile	53	4.509	4.501	0.008	98	600580	500.0	623.4	
34 trans-1,2-Dichloroethene	96	4.564	4.568	-0.004	96	118687	50.0	44.4	
35 Methyl tert-butyl ether	73	4.576	4.574	0.002	97	359224	50.0	44.8	
36 Hexane	57	4.990	4.981	0.009	95	174035	50.0	48.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.203	5.188	0.015	96	229333	50.0	47.9	
38 Vinyl acetate	43	5.239	5.237	0.002	98	194379	50.0	50.3	
43 cis-1,2-Dichloroethene	96	5.939	5.936	0.003	86	130860	50.0	45.0	
42 2,2-Dichloropropane	77	5.939	5.942	-0.003	55	99976	50.0	41.3	
44 2-Butanone (MEK)	43	5.945	5.949	-0.004	99	133602	100.0	120.1	
48 Chlorobromomethane	128	6.231	6.222	0.009	93	58631	50.0	50.2	
49 Tetrahydrofuran	42	6.243	6.241	0.002	90	89962	100.0	120.1	
50 Chloroform	83	6.371	6.368	0.003	94	210851	50.0	44.3	
51 1,1,1-Trichloroethane	97	6.541	6.539	0.002	97	140896	50.0	40.1	
52 Cyclohexane	56	6.620	6.612	0.008	93	212823	50.0	47.3	
53 Carbon tetrachloride	117	6.718	6.709	0.009	73	109637	50.0	44.2	
54 1,1-Dichloropropene	75	6.724	6.727	-0.003	93	164565	50.0	43.6	
55 Isobutyl alcohol	41	6.900	6.904	-0.004	91	114725	1250.0	1721.4	
56 Benzene	78	6.943	6.940	0.003	98	534964	50.0	49.8	
57 1,2-Dichloroethane	62	7.022	7.013	0.009	98	198502	50.0	45.9	
59 n-Heptane	43	7.308	7.305	0.003	92	163105	50.0	55.9	
61 Trichloroethene	130	7.679	7.676	0.003	97	115940	50.0	51.8	
63 Methylcyclohexane	83	7.922	7.920	0.002	95	182020	50.0	40.1	
64 1,2-Dichloropropane	63	7.953	7.950	0.003	95	137045	50.0	53.4	
65 1,4-Dioxane	88	8.032	8.029	0.003	42	28170	1000.0	1112.7	M
67 Dibromomethane	93	8.038	8.035	0.003	96	75912	50.0	48.7	
68 Dichlorobromomethane	83	8.233	8.230	0.003	98	133922	50.0	45.8	
71 cis-1,3-Dichloropropene	75	8.677	8.674	0.003	92	154721	50.0	48.1	
72 4-Methyl-2-pentanone (MIBK	43	8.823	8.826	-0.003	97	224769	100.0	104.0	
73 Toluene	91	9.011	9.009	0.002	99	547322	50.0	50.5	
74 trans-1,3-Dichloropropene	75	9.255	9.252	0.003	97	123016	50.0	44.7	
75 Ethyl methacrylate	69	9.315	9.313	0.002	91	148169	50.0	50.7	
76 1,1,2-Trichloroethane	97	9.449	9.447	0.002	94	111096	50.0	49.5	
77 Tetrachloroethene	164	9.528	9.526	0.002	96	94317	50.0	51.0	
78 1,3-Dichloropropane	76	9.607	9.605	0.002	94	209517	50.0	50.6	
79 2-Hexanone	43	9.656	9.659	-0.003	97	146763	100.0	103.4	
81 Chlorodibromomethane	129	9.826	9.824	0.002	91	76501	50.0	50.0	
82 Ethylene Dibromide	107	9.942	9.939	0.003	97	101115	50.0	50.9	
83 3-Chlorobenzotrifluoride	180	10.392	10.390	0.002	94	184931	50.0	53.2	
84 Chlorobenzene	112	10.429	10.426	0.003	93	340436	50.0	51.1	
85 4-Chlorobenzotrifluoride	180	10.483	10.481	0.002	95	177029	50.0	55.0	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.523	-0.003	89	93553	50.0	51.2	
87 Ethylbenzene	106	10.532	10.523	0.009	99	178585	50.0	47.5	
88 m-Xylene & p-Xylene	106	10.660	10.657	0.003	99	228220	50.0	48.9	
89 o-Xylene	106	11.043	11.040	0.003	97	216812	50.0	46.4	
90 Styrene	104	11.061	11.059	0.002	94	377775	50.0	52.7	
91 Bromoform	173	11.244	11.241	0.003	95	44087	50.0	53.9	
92 2-Chlorobenzotrifluoride	180	11.305	11.302	0.003	97	188213	50.0	52.9	
93 Isopropylbenzene	105	11.408	11.405	0.003	97	535650	50.0	47.9	
96 1,1,2,2-Tetrachloroethane	83	11.718	11.716	0.002	96	148539	50.0	49.5	
95 Bromobenzene	156	11.724	11.722	0.002	96	141550	50.0	46.8	
97 trans-1,4-Dichloro-2-buten	53	11.755	11.746	0.009	74	38617	50.0	40.3	
98 1,2,3-Trichloropropane	110	11.773	11.770	0.003	84	51684	50.0	45.0	
99 N-Propylbenzene	120	11.828	11.825	0.003	99	144602	50.0	41.5	
100 2-Chlorotoluene	126	11.913	11.910	0.003	94	130361	50.0	45.1	
101 3-Chlorotoluene	126	11.980	11.977	0.003	96	142665	50.0	47.0	
102 1,3,5-Trimethylbenzene	105	12.010	12.008	0.002	93	494712	50.0	43.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 4-Chlorotoluene	126	12.041	12.038	0.003	98	142782	50.0	46.8	
104 tert-Butylbenzene	119	12.327	12.324	0.003	92	353710	50.0	39.6	
106 1,2,4-Trimethylbenzene	105	12.388	12.385	0.003	98	496660	50.0	42.9	
107 1,2-dichloro-4-(trifluorom	214	12.424	12.421	0.003	98	162526	50.0	49.6	
108 sec-Butylbenzene	105	12.552	12.549	0.003	95	562992	50.0	42.2	
109 1,3-Dichlorobenzene	146	12.667	12.665	0.002	96	268293	50.0	45.4	
110 4-Isopropyltoluene	119	12.704	12.707	-0.003	96	455755	50.0	40.7	
111 1,4-Dichlorobenzene	146	12.771	12.774	-0.003	91	274629	50.0	45.5	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.792	-0.003	97	168934	50.0	51.8	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.835	-0.003	98	171258	50.0	47.0	
116 n-Butylbenzene	91	13.111	13.115	-0.004	98	428139	50.0	38.3	
117 1,2-Dichlorobenzene	146	13.124	13.127	-0.003	94	268244	50.0	45.0	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.918	-0.004	73	20803	50.0	38.1	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.061	14.058	0.002	98	690413	150.0	133.1	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.478	-0.004	98	496601	100.0	86.8	
122 1,2,4-Trichlorobenzene	180	14.742	14.739	0.003	93	197915	50.0	42.8	
123 Hexachlorobutadiene	225	14.888	14.891	-0.003	96	81509	50.0	44.8	
124 Naphthalene	128	15.010	15.007	0.003	98	425548	50.0	45.6	
125 1,2,3-Trichlorobenzene	180	15.229	15.232	-0.003	95	183890	50.0	42.5	
126 2,4,5-Trichlorotoluene	159	16.013	16.011	0.002	0	110429	50.0	38.1	
127 2,3,6-Trichlorotoluene	159	16.111	16.108	0.003	95	117029	50.0	42.5	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 131 Xylenes, Total	106				0		100.0	95.3	
S 130 1,2-Dichloroethene, Total	96				0		100.0	89.3	
S 132 1,3-Dichloropropene, Total	1				0		100.0	92.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOA2ND_00146	Amount Added:	2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

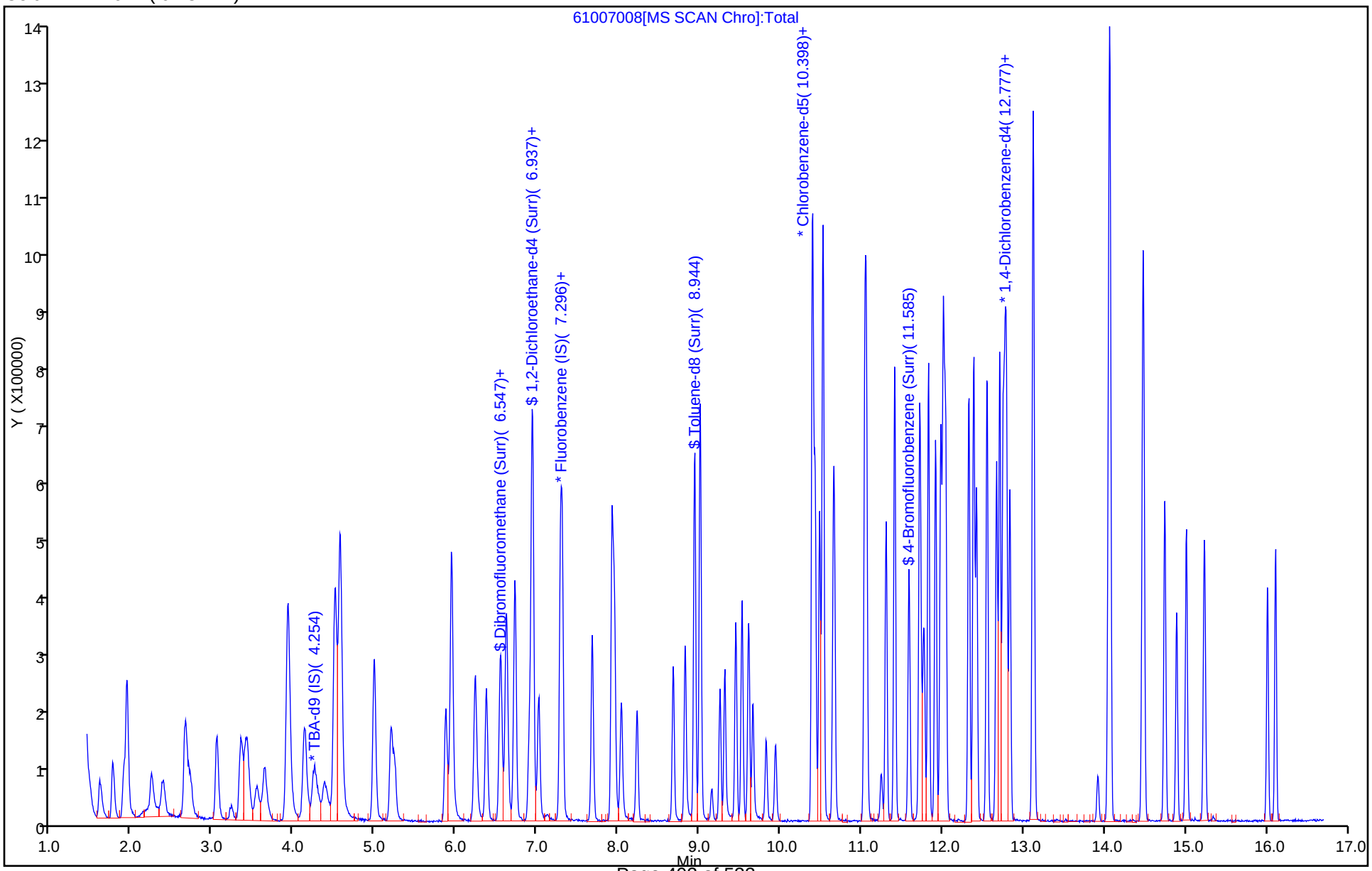
Report Date: 08-Oct-2015 10:05:19 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007008.D

Injection Date:	07-Oct-2015 15:36:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	LCS			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



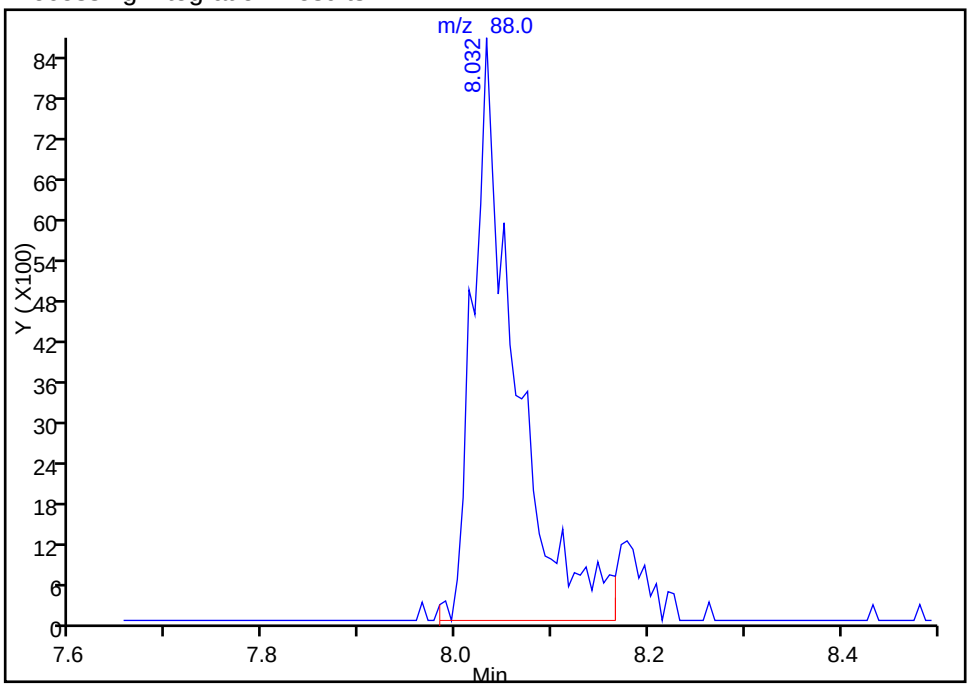
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007008.D
Injection Date: 07-Oct-2015 15:36:30 Instrument ID: CHHP6
Lims ID: LCS
Client ID:
Operator ID: 001562 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

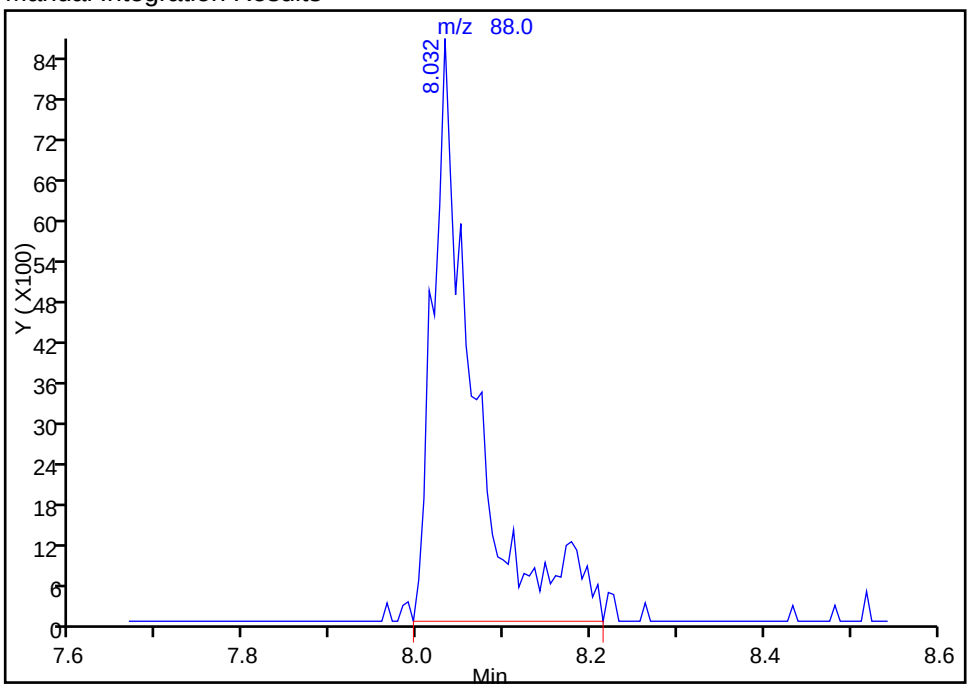
Processing Integration Results

RT: 8.03
Area: 26274
Amount: 1037.8501
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 28170
Amount: 1112.7441
Amount Units: ng



Reviewer: fergusond, 07-Oct-2015 15:59:33
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CHHP6 Start Date: 07/31/2015 12:10

Analysis Batch Number: 149469 End Date: 07/31/2015 18:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-149469/1		07/31/2015 12:10	1	60731001.D	DB-624 0.18(mm)
IC 180-149469/4		07/31/2015 14:00	1	60731004.D	DB-624 0.18(mm)
ICIS 180-149469/5		07/31/2015 14:24	1	60731005.D	DB-624 0.18(mm)
IC 180-149469/6		07/31/2015 14:49	1	60731006.D	DB-624 0.18(mm)
IC 180-149469/7		07/31/2015 15:13	1	60731007.D	DB-624 0.18(mm)
IC 180-149469/8		07/31/2015 15:37	1	60731008.D	DB-624 0.18(mm)
IC 180-149469/9		07/31/2015 16:01	1	60731009.D	DB-624 0.18(mm)
IC 180-149469/10		07/31/2015 16:25	1	60731010.D	DB-624 0.18(mm)
IC 180-149469/14		07/31/2015 18:02	1	60731014.D	DB-624 0.18(mm)
ZZZZZ		07/31/2015 18:26	1		DB-624 0.18(mm)
ICV 180-149469/16		07/31/2015 18:50	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CHHP6 Start Date: 10/05/2015 09:22

Analysis Batch Number: 155869 End Date: 10/05/2015 21:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-155869/1		10/05/2015 09:22	1	61005001.D	DB-624 0.18(mm)
CCVIS 180-155869/2		10/05/2015 10:05	1	61005002.D	DB-624 0.18(mm)
CCV 180-155869/3		10/05/2015 10:29	1	61005003.D	DB-624 0.18(mm)
ZZZZZ		10/05/2015 10:58	1		DB-624 0.18(mm)
MB 180-155869/5		10/05/2015 11:25	1	61005005.D	DB-624 0.18(mm)
LCS 180-155869/7		10/05/2015 12:29	1	61005007.D	DB-624 0.18(mm)
ZZZZZ		10/05/2015 17:46	40		DB-624 0.18(mm)
ZZZZZ		10/05/2015 18:10	1		DB-624 0.18(mm)
ZZZZZ		10/05/2015 18:59	20		DB-624 0.18(mm)
ZZZZZ		10/05/2015 19:23	1		DB-624 0.18(mm)
ZZZZZ		10/05/2015 19:48	1		DB-624 0.18(mm)
180-48259-1	HD-MW-113-0/1-0	10/05/2015 20:12	25	61005026.D	DB-624 0.18(mm)
ZZZZZ		10/05/2015 21:01	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CHHP6 Start Date: 10/06/2015 11:29

Analysis Batch Number: 156041 End Date: 10/06/2015 23:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-156041/1		10/06/2015 11:29	1	61006001.D	DB-624 0.18(mm)
CCVIS 180-156041/2		10/06/2015 12:10	1	61006002.D	DB-624 0.18(mm)
CCV 180-156041/3		10/06/2015 12:34	1	61006003.D	DB-624 0.18(mm)
ZZZZZ		10/06/2015 12:58	1		DB-624 0.18(mm)
MB 180-156041/5		10/06/2015 13:28	1	61006005.D	DB-624 0.18(mm)
LCS 180-156041/8		10/06/2015 14:54	1	61006008.D	DB-624 0.18(mm)
180-48259-5	HD-QC11-0/1-2	10/06/2015 19:45	1	61006020.D	DB-624 0.18(mm)
180-48259-2	HD-MW-127-0/1-0	10/06/2015 20:10	10	61006021.D	DB-624 0.18(mm)
180-48259-3	HD-MW-22-0/1-0	10/06/2015 23:00	1	61006028.D	DB-624 0.18(mm)
180-48259-4	HD-MW-15-0/1-0	10/06/2015 23:25	1	61006029.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CHHP6 Start Date: 10/07/2015 11:51

Analysis Batch Number: 156189 End Date: 10/07/2015 23:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-156189/4		10/07/2015 11:51	1	61007004.D	DB-624 0.18(mm)
CCVIS 180-156189/2		10/07/2015 12:51	1	61007002.D	DB-624 0.18(mm)
ZZZZZ		10/07/2015 13:33	1		DB-624 0.18(mm)
MB 180-156189/5		10/07/2015 14:07	1	61007005.D	DB-624 0.18(mm)
LCS 180-156189/8		10/07/2015 15:36	1	61007008.D	DB-624 0.18(mm)
180-48259-4 DL	HD-MW-15-0/1-0 DL	10/07/2015 17:13	12.5	61007012.D	DB-624 0.18(mm)
ZZZZZ		10/07/2015 19:39	1		DB-624 0.18(mm)
ZZZZZ		10/07/2015 20:03	1		DB-624 0.18(mm)
ZZZZZ		10/07/2015 20:27	1		DB-624 0.18(mm)
ZZZZZ		10/07/2015 20:51	1		DB-624 0.18(mm)
ZZZZZ		10/07/2015 21:15	25		DB-624 0.18(mm)
ZZZZZ		10/07/2015 23:42	1		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.: 180-48259-1

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 #
HD-MW-113-0/1-0	180-48259-1	62	70	80	78	73	90
HD-MW-127-0/1-0	180-48259-2	52	57	60	60	73	80
	MB 180-155703/1-A	63	64	68	65	68	69
	LCS 180-155703/2-A	62	62	67	64	68	66

	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.: 180-48259-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D10080007.D

Lab ID: LCS 180-155703/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	20.0	11.8	59	36-100	

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.: 180-48259-1

SDG No.:

Lab File ID: D10080004.D Lab Sample ID: MB 180-155703/1-A

Matrix: Water Date Extracted: 10/02/2015 10:42

Instrument ID: CH732 Date Analyzed: 10/08/2015 11:33

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-155703/2-A	D10080007.D	10/08/2015 12:52
HD-MW-113-0/1-0	180-48259-1	D10080019.D	10/08/2015 18:06
HD-MW-127-0/1-0	180-48259-2	D10080020.D	10/08/2015 18:32

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab File ID: D08270002.D DFTPP Injection Date: 08/27/2015

Instrument ID: CH732 DFTPP Injection Time: 05:10

Analysis Batch No.: 151940

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	28.8	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	38.6	
70	Less than 2.0 % of mass 69	0.1	(0.2) 1
127	40.0 - 60.0 % of mass 198	41.3	
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	25.4	
365	Greater than 1.0 % of mass 198	2.6	
441	Present but less than mass 443	7.2	(88.2) 3
442	Greater than 40.0 % of mass 198	40.9	
443	17.0 - 23.0 % of mass 442	8.2	(20.0) 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 180-151940/3	D08270003.D	08/27/2015	05:25
	IC 180-151940/4	D08270004.D	08/27/2015	05:51
	IC 180-151940/5	D08270005.D	08/27/2015	06:18
	ICIS 180-151940/6	D08270006.D	08/27/2015	06:44
	IC 180-151940/7	D08270007.D	08/27/2015	07:23
	IC 180-151940/8	D08270008.D	08/27/2015	07:49
	IC 180-151940/9	D08270009.D	08/27/2015	08:16
	IC 180-151940/10	D08270010.D	08/27/2015	08:42

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab File ID: D10080002.D DFTPP Injection Date: 10/08/2015

Instrument ID: CH732 DFTPP Injection Time: 10:52

Analysis Batch No.: 156303

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	39.1	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	44.1	
70	Less than 2.0 % of mass 69	0.1	(0.2) 1
127	40.0 - 60.0 % of mass 198	44.3	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.8	
275	10.0 - 30.0 % of mass 198	25.9	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	8.1	(97.9) 3
442	Greater than 40.0 % of mass 198	42.2	
443	17.0 - 23.0 % of mass 442	8.2	(19.5) 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 180-156303/3	D10080003.D	10/08/2015	11:07
	MB 180-155703/1-A	D10080004.D	10/08/2015	11:33
	LCS 180-155703/2-A	D10080007.D	10/08/2015	12:52
HD-MW-113-0/1-0	180-48259-1	D10080019.D	10/08/2015	18:06
HD-MW-127-0/1-0	180-48259-2	D10080020.D	10/08/2015	18:32

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Sample No.: CCVIS 180-156303/3 Date Analyzed: 10/08/2015 11:07

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): D10080003.D Heated Purge: (Y/N) N

Calibration ID: 25107

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		110830	6.14	421472	7.41	283655	9.11
UPPER LIMIT		221660	6.64	842944	7.91	567310	9.61
LOWER LIMIT		55415	5.64	210736	6.91	141828	8.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155703/1-A		114537	6.13	443288	7.41	304324	9.11
LCS 180-155703/2-A		104269	6.13	411203	7.42	277327	9.12
180-48259-1	HD-MW-113-0/1-0	106905	6.14	415956	7.43	288297	9.13
180-48259-2	HD-MW-127-0/1-0	107122	6.13	418220	7.42	282031	9.12

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.: 180-48259-1

SDG No.:

Sample No.: CCVIS 180-156303/3 Date Analyzed: 10/08/2015 11:07

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): D10080003.D Heated Purge: (Y/N) N

Calibration ID: 25107

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		519679	10.53	574302	14.20	492951	17.05
UPPER LIMIT		1039358	11.03	1148604	14.70	985902	17.55
LOWER LIMIT		259840	10.03	287151	13.70	246476	16.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155703/1-A		587581	10.53	573879	14.22	484852	17.07
LCS 180-155703/2-A		536810	10.55	565197	14.25	456511	17.11
180-48259-1	HD-MW-113-0/1-0	537905	10.56	532781	14.27	447732	17.14
180-48259-2	HD-MW-127-0/1-0	529542	10.56	534880	14.27	456265	17.13

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.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-113-0/1-0 | Lab Sample ID: 180-48259-1

Matrix: Water | Lab File ID: D10080019.D

Analysis Method: 8270D LL | Date Collected: 09/29/2015 12:55

Extract. Method: 3520C | Date Extracted: 10/02/2015 10:42

Sample wt/vol: 270(mL) | Date Analyzed: 10/08/2015 18:06

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.: 156303 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	23		1.9	0.049

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	78		28-109
367-12-4	2-Fluorophenol (Surr)	62		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	73		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	80		27-114
4165-62-2	Phenol-d5 (Surr)	70		25-105
1718-51-0	Terphenyl-d14 (Surr)	90		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080019.D
Lims ID: 180-48259-A-1-A Lab Sample ID: 180-48259-1
Client ID: HD-MW-113-0/1-0
Sample Type: Client
Inject. Date: 08-Oct-2015 18:06:30 ALS Bottle#: 18 Worklist Smp#: 19
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008890-019
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 09-Oct-2015 06:23:18 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: piccolinov Date: 09-Oct-2015 06:13:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.137	6.137	0.000	97	106905	8.00	
* 2 Naphthalene-d8	136	7.425	7.414	0.011	99	415956	8.00	
* 3 Acenaphthene-d10	164	9.129	9.108	0.021	93	288297	8.00	
* 4 Phenanthrene-d10	188	10.561	10.529	0.032	97	537905	8.00	
* 5 Chrysene-d12	240	14.273	14.204	0.069	97	532781	8.00	
* 6 Perylene-d12	264	17.137	17.051	0.086	97	447732	8.00	
$ 7 2-Fluorophenol	112	4.684	4.695	-0.011	92	371216	25.0	
$ 8 Phenol-d5	99	5.769	5.763	0.006	93	564273	28.0	
$ 9 Nitrobenzene-d5	82	6.698	6.693	0.005	91	662349	31.9	
$ 10 2-Fluorobiphenyl	172	8.466	8.445	0.021	100	1663560	31.1	
$ 11 2,4,6-Tribromophenol	330	9.882	9.855	0.027	85	156823	29.3	
$ 12 Terphenyl-d14	244	12.468	12.409	0.059	99	1999137	36.1	
13 1,4-Dioxane	88	1.489	1.516	-0.027	90	284209	50.3	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

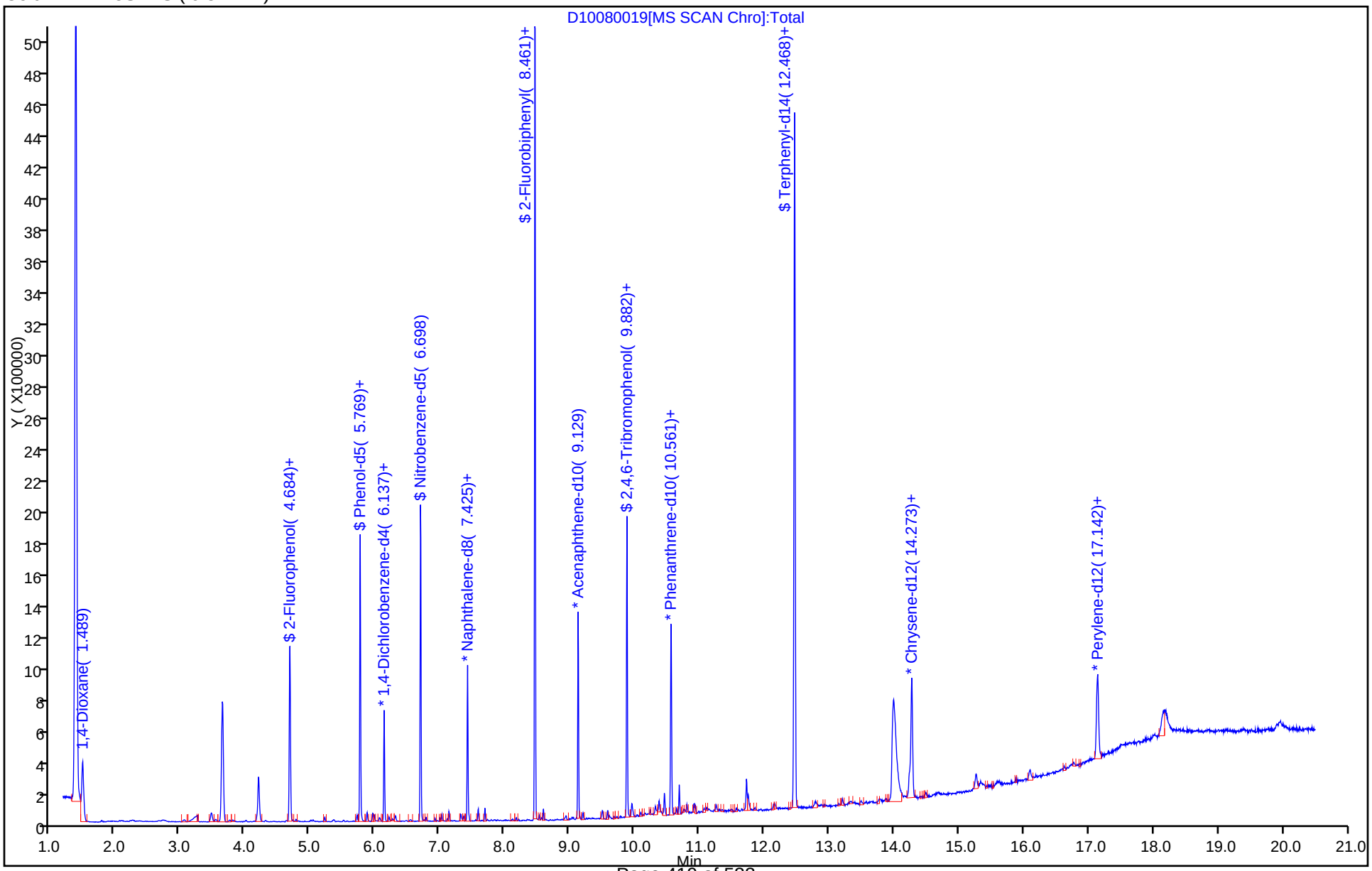
Report Date: 09-Oct-2015 06:23:56 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080019.D

Injection Date:	08-Oct-2015 18:06:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	180-48259-A-1-A	Lab Sample ID:	180-48259-1	Worklist Smp#:	19
Client ID:	HD-MW-113-0/1-0				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



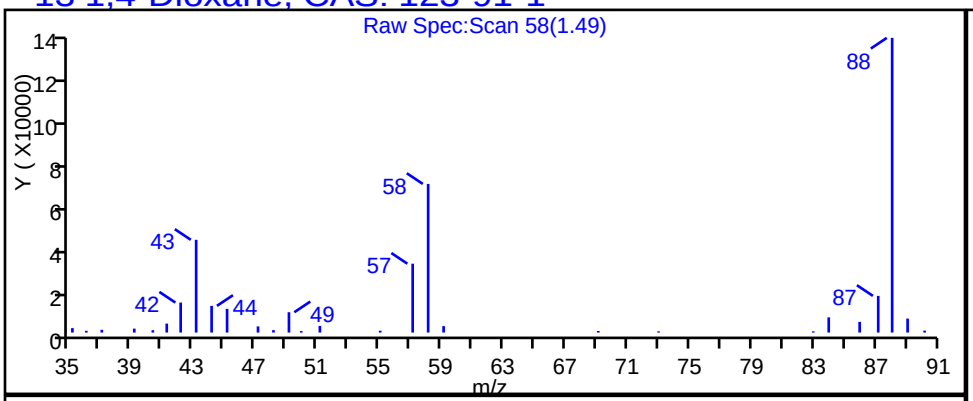
Report Date: 09-Oct-2015 06:23:56 Chrom Revision: 2.2 08-Sep-2015 13:41:46

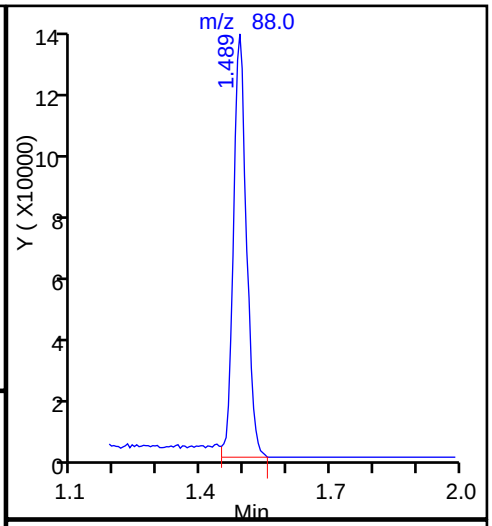
TestAmerica Pittsburgh

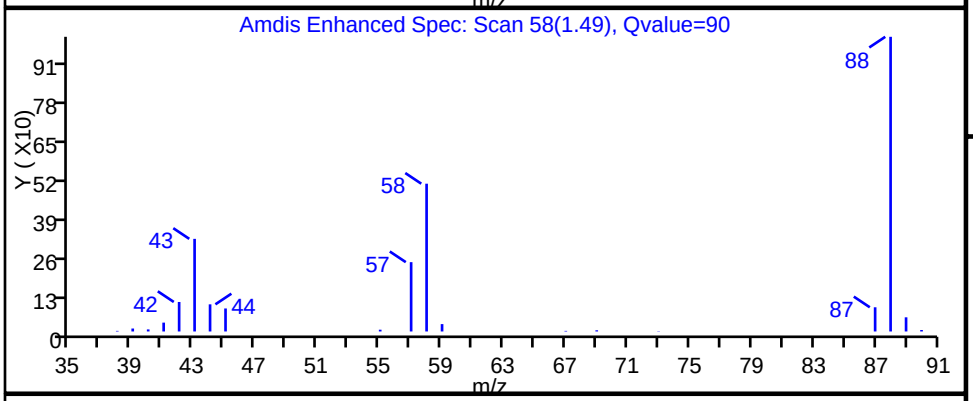
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080019.D

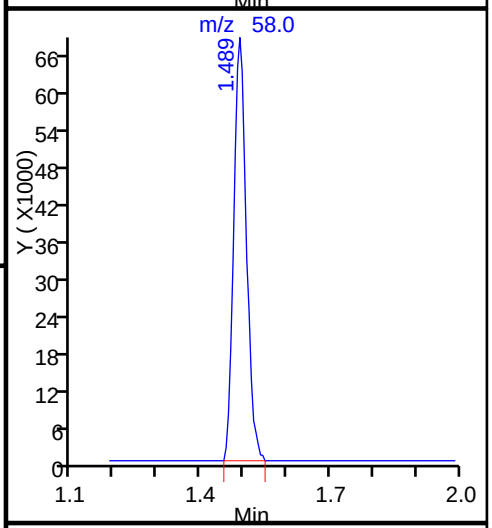
Injection Date:	08-Oct-2015 18:06:30	Instrument ID:	CH732		
Lims ID:	180-48259-A-1-A	Lab Sample ID:	180-48259-1		
Client ID:	HD-MW-113-0/1-0				
Operator ID:	003200	ALS Bottle#:	18	Worklist Smp#:	19
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

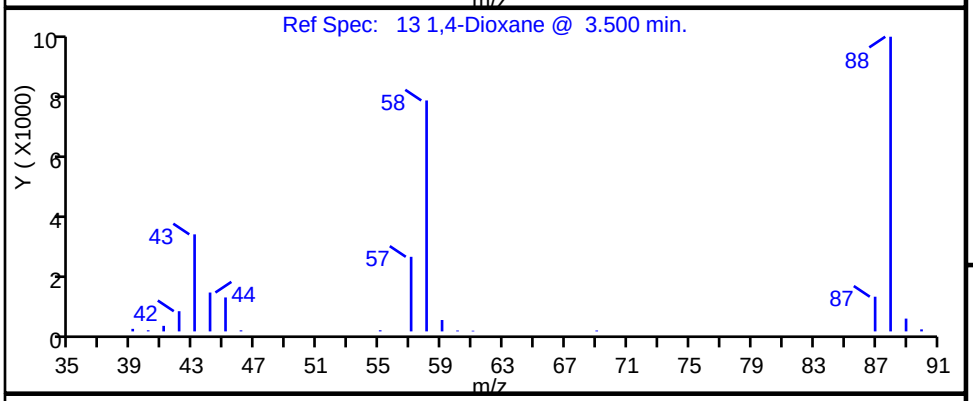
13 1,4-Dioxane, CAS: 123-91-1

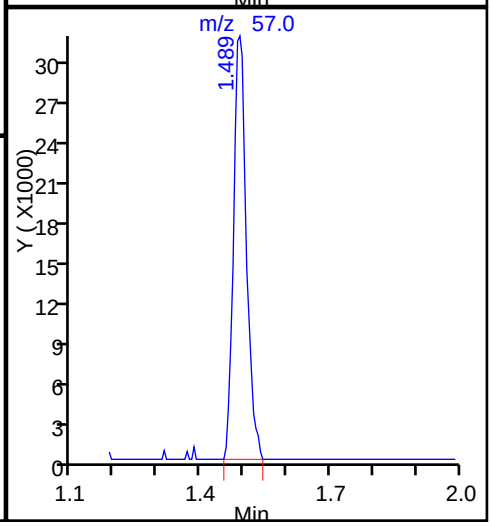


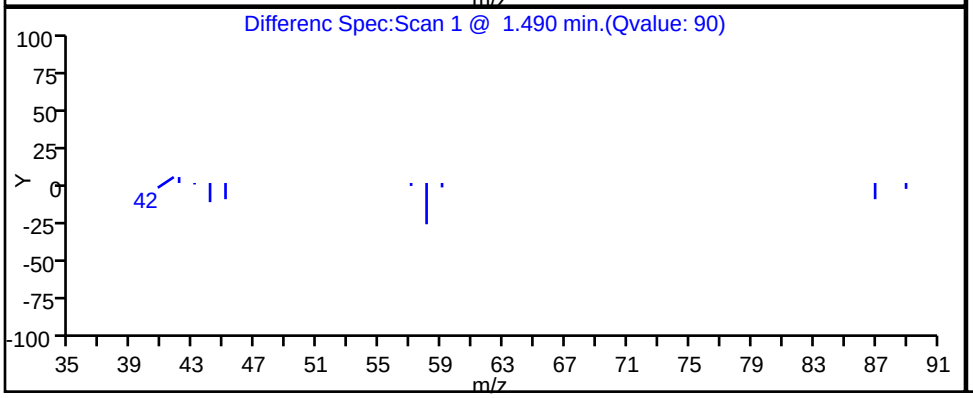












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: HD-MW-127-0/1-0 | Lab Sample ID: 180-48259-2

Matrix: Water | Lab File ID: D10080020.D

Analysis Method: 8270D LL | Date Collected: 09/29/2015 15:32

Extract. Method: 3520C | Date Extracted: 10/02/2015 10:42

Sample wt/vol: 270(mL) | Date Analyzed: 10/08/2015 18:32

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.: 156303 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	6.8		1.9	0.049

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	60		28-109
367-12-4	2-Fluorophenol (Surr)	52		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	73		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	60		27-114
4165-62-2	Phenol-d5 (Surr)	57		25-105
1718-51-0	Terphenyl-d14 (Surr)	80		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080020.D
Lims ID: 180-48259-A-2-A Lab Sample ID: 180-48259-2
Client ID: HD-MW-127-0/1-0
Sample Type: Client
Inject. Date: 08-Oct-2015 18:32:30 ALS Bottle#: 19 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008890-020
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 09-Oct-2015 06:23:18 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: piccolinov Date: 09-Oct-2015 06:13:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.132	6.137	-0.005	96	107122	8.00	
* 2 Naphthalene-d8	136	7.419	7.414	0.005	99	418220	8.00	
* 3 Acenaphthene-d10	164	9.124	9.108	0.016	93	282031	8.00	
* 4 Phenanthrene-d10	188	10.561	10.529	0.032	97	529542	8.00	
* 5 Chrysene-d12	240	14.268	14.204	0.064	97	534880	8.00	
* 6 Perylene-d12	264	17.132	17.051	0.081	97	456265	8.00	
$ 7 2-Fluorophenol	112	4.673	4.695	-0.022	92	308348	20.7	
$ 8 Phenol-d5	99	5.763	5.763	0.000	94	463441	23.0	
$ 9 Nitrobenzene-d5	82	6.693	6.693	0.000	91	503795	24.2	
$ 10 2-Fluorobiphenyl	172	8.461	8.445	0.016	100	1253008	23.9	
$ 11 2,4,6-Tribromophenol	330	9.882	9.855	0.027	88	153963	29.3	
$ 12 Terphenyl-d14	244	12.462	12.409	0.053	99	1778398	32.0	
13 1,4-Dioxane	88	1.484	1.516	-0.032	90	82699	14.6	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

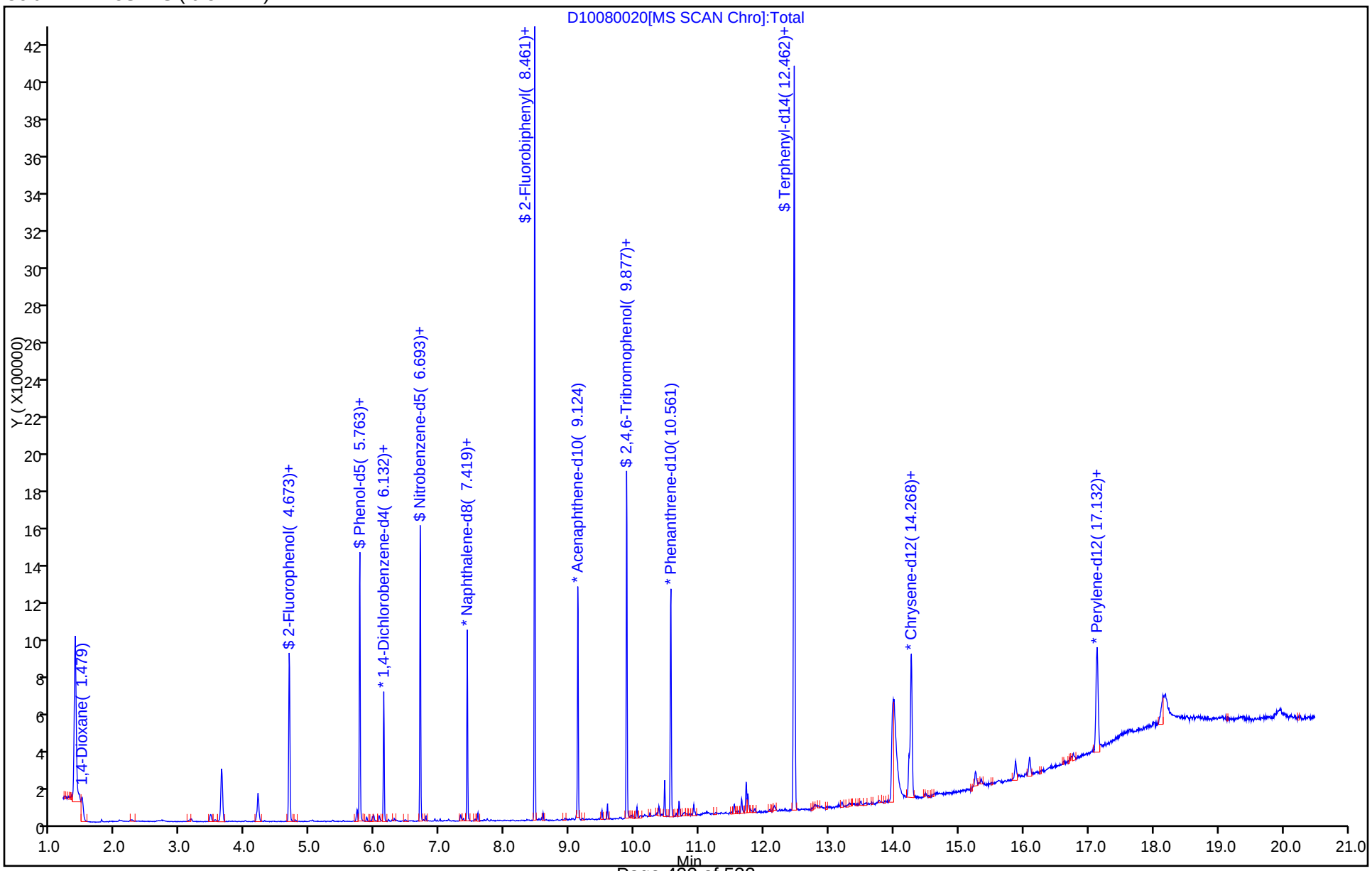
Report Date: 09-Oct-2015 06:23:58 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080020.D

Injection Date:	08-Oct-2015 18:32:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	180-48259-A-2-A	Lab Sample ID:	180-48259-2	Worklist Smp#:	20
Client ID:	HD-MW-127-0/1-0				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



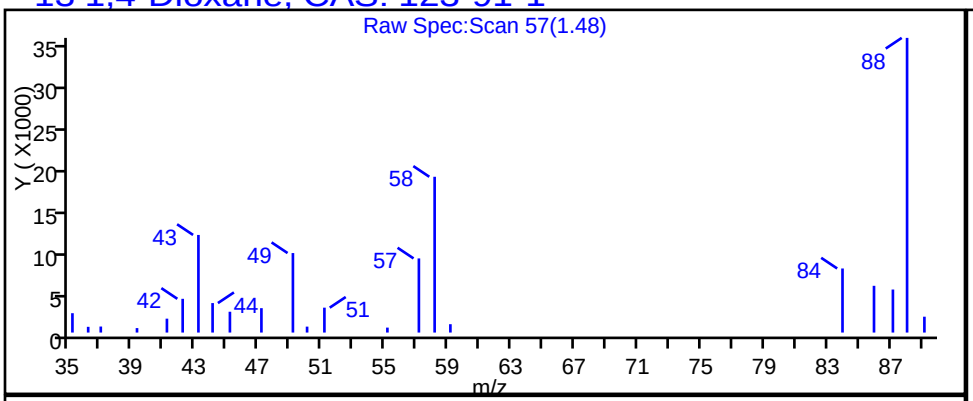
Report Date: 09-Oct-2015 06:23:58 Chrom Revision: 2.2 08-Sep-2015 13:41:46

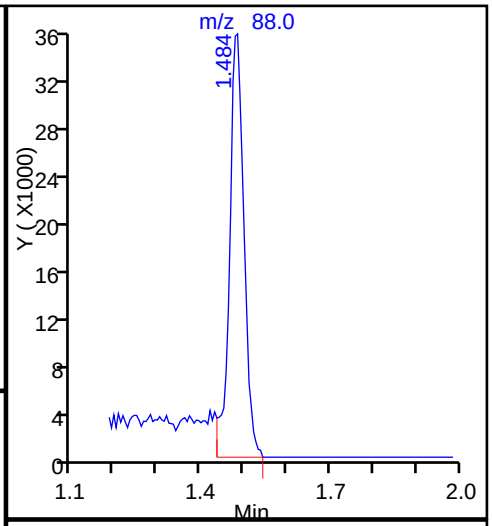
TestAmerica Pittsburgh

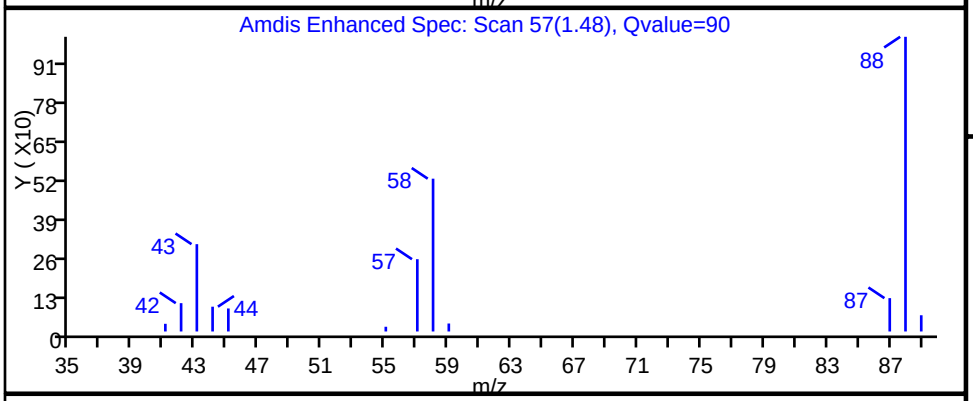
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080020.D

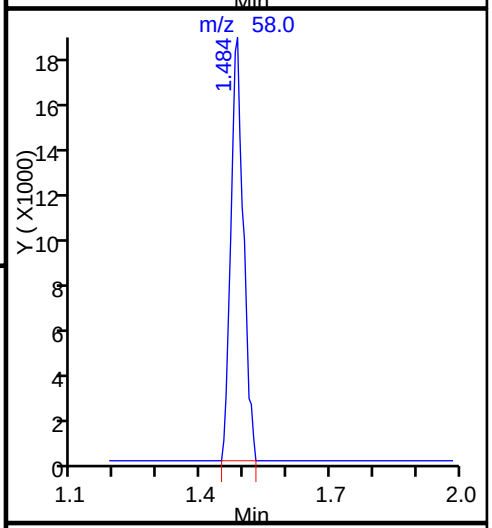
Injection Date:	08-Oct-2015 18:32:30	Instrument ID:	CH732		
Lims ID:	180-48259-A-2-A	Lab Sample ID:	180-48259-2		
Client ID:	HD-MW-127-0/1-0				
Operator ID:	003200	ALS Bottle#:	19	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

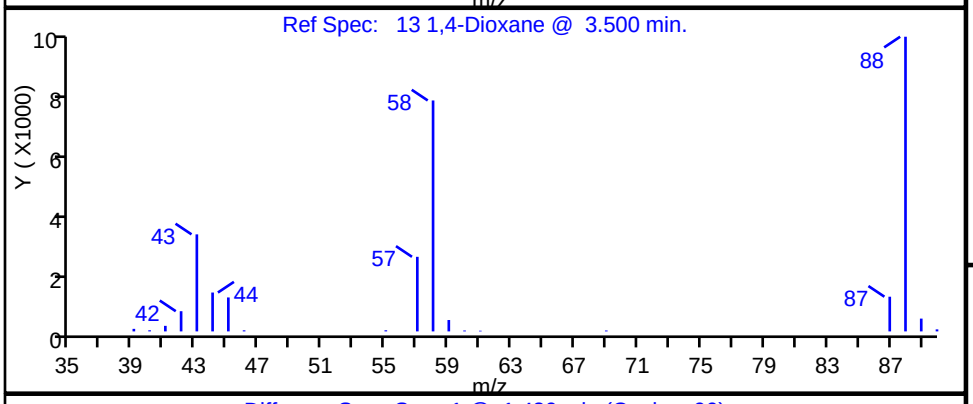
13 1,4-Dioxane, CAS: 123-91-1

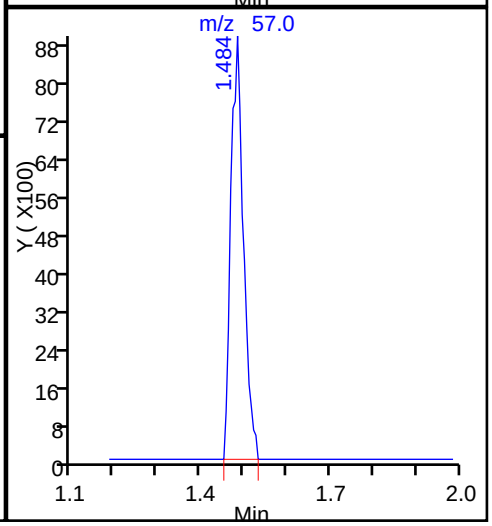


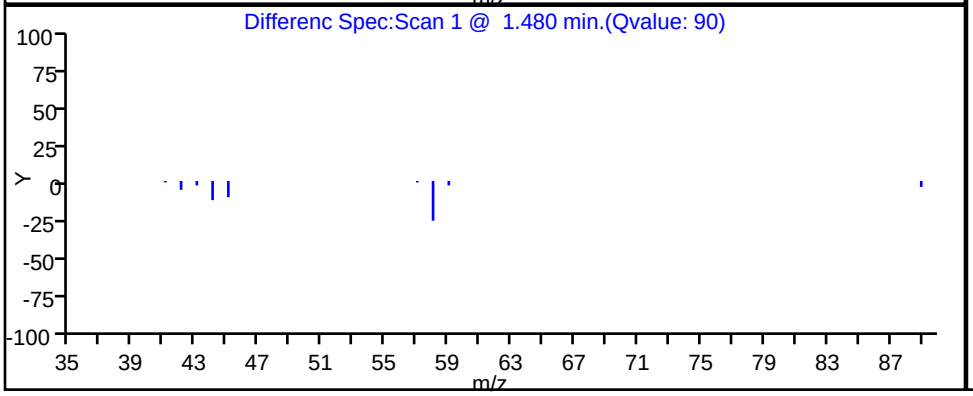












FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151940/3	D08270003.D
Level 2	IC 180-151940/4	D08270004.D
Level 3	IC 180-151940/5	D08270005.D
Level 4	ICIS 180-151940/6	D08270006.D
Level 5	IC 180-151940/7	D08270007.D
Level 6	IC 180-151940/8	D08270008.D
Level 7	IC 180-151940/9	D08270009.D
Level 8	IC 180-151940/10	D08270010.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	+++++ 0.3922	0.5355 0.3898	0.4547 0.3790	0.4110	0.3964	Ave		0.4227			0.0100	13.1		20.0			
N-Nitrosodimethylamine	0.4675 0.5041	0.4733 0.5139	0.4948 0.5088	0.4991	0.5015	Ave		0.4954			0.0100	3.3		20.0			
Pyridine	0.8082 0.9935	0.8948 0.9979	0.9684 0.9829	0.9783	0.9752	Ave		0.9499			0.0100	6.9		20.0			
Methyl methanesulfonate	0.6209 0.6401	0.6256 0.6309	0.6687 0.6339	0.6610	0.6483	Ave		0.6412			0.0100	2.6		20.0			
Benzaldehyde	0.8103 0.7923	0.8186 0.7954	0.8004 0.7860	0.7946	0.7952	Ave		0.7991			0.0100	1.3		20.0			
Phenol	1.6082 1.7208	1.7598 1.7454	1.8162 1.7384	1.7970	1.7505	Ave		1.7420			0.8000	3.6		20.0			
Aniline	1.7867 1.9531	1.9085 1.9932	1.9703 2.0120	1.9834	1.9713	Ave		1.9473			0.0100	3.7		20.0			
Bis(2-chloroethyl)ether	1.0955 1.1384	1.1429 1.1571	1.2013 1.1445	1.1565	1.1476	Ave		1.1480			0.7000	2.5		20.0			
2-Chlorophenol	1.1281 1.3581	1.2298 1.3840	1.3298 1.3975	1.3379	1.3581	Ave		1.3154			0.8000	6.9		20.0			
n-Decane	0.9291 0.9183	0.9152 0.9167	0.9555 0.9163	0.9348	0.9200	Ave		0.9257				1.5		20.0			
1,3-Dichlorobenzene	1.7012 1.6653	1.6149 1.7345	1.7127 1.7325	1.6525	1.6918	Ave		1.6882			0.0100	2.5		20.0			
1,4-Dichlorobenzene	1.7714 1.7202	1.6462 1.7898	1.7382 1.7784	1.7573	1.7159	Ave		1.7397			0.0100	2.7		20.0			
Benzyl alcohol	0.6569 0.8366	0.7398 0.8628	0.7695 0.8617	0.8130	0.8151	Ave		0.7944			0.0100	8.8		20.0			
1,2-Dichlorobenzene	1.6640 1.6248	1.6320 1.6760	1.6524 1.6913	1.6326	1.6573	Ave		1.6538			0.0100	1.4		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

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	1.0658 1.2391	1.1552 1.2645	1.2642 1.2510	1.2426	1.2378	Ave		1.2150			0.7000	5.7		20.0			
Indene	2.5031 2.4692	2.4990 2.5536	2.5397 2.5372	2.5005	2.4840	Ave		2.5108			0.0100	1.2		20.0			
2,2'-oxybis[1-chloropropane]	1.1675 1.0813	1.0947 1.0854	1.1746 1.0826	1.1281	1.0861	Ave		1.1125			0.0100	3.5		20.0			
N-Nitrosopyrrolidine	0.3587 0.5752	0.5219 0.6019	0.5708 0.6110	0.5728	0.5698	Ave		0.5478			0.0100	14.8		20.0			
Acetophenone	2.0782 1.9437	2.0062 1.9510	2.0394 1.9494	2.0678	1.9634	Ave		1.9999			0.0100	2.8		20.0			
N-Nitrosodi-n-propylamine	0.8961 0.9334	0.9541 0.9132	1.0155 0.9100	1.0127	0.9590	Ave		0.9493			0.5000	4.8		20.0			
Methylphenol, 3 & 4	1.1033 1.2964	1.2857 1.2894	1.3271 1.2934	1.3468	1.2863	Ave		1.2786			0.6000	5.8		20.0			
Hexachloroethane	0.6374 0.7018	0.6877 0.7173	0.7196 0.7048	0.7447	0.7089	Ave		0.7028			0.3000	4.4		20.0			
Nitrobenzene	0.3799 0.4057	0.3997 0.3991	0.4217 0.4042	0.4214	0.4091	Ave		0.4051			0.2000	3.3		20.0			
Isophorone	0.5614 0.6910	0.5976 0.6861	0.6463 0.6907	0.6692	0.6672	Ave		0.6512			0.4000	7.3		20.0			
2-Nitrophenol	+++++ 0.2004	0.1565 0.2030	0.1747 0.2085	0.1899	0.1933	Ave		0.1895			0.1000	9.6		20.0			
2,4-Dimethylphenol	0.3332 0.4210	0.3904 0.4185	0.4079 0.4186	0.4097	0.4098	Ave		0.4011			0.2000	7.2		20.0			
Benzoic acid	+++++ 0.1794	+++++ 0.2074	0.0749 0.2174	0.1106	0.1449	Lin1	-0.783	0.2150			0.0100				0.9900		0.9900
Bis(2-chloroethoxy)methane	0.3876 0.4104	0.4035 0.3986	0.4099 0.4043	0.4096	0.4042	Ave		0.4035			0.3000	1.9		20.0			
2,4-Dichlorophenol	0.2564 0.3501	0.2952 0.3512	0.3219 0.3559	0.3340	0.3408	Ave		0.3257			0.2000	10.5		20.0			
1,2,4-Trichlorobenzene	0.4038 0.4282	0.4098 0.4265	0.4204 0.4368	0.4187	0.4199	Ave		0.4205			0.0100	2.5		20.0			
Naphthalene	1.1450 1.1673	1.1478 1.1788	1.1515 1.2014	1.1312	1.1598	Ave		1.1603			0.7000	1.9		20.0			
4-Chloroaniline	0.3675 0.4797	0.4356 0.4822	0.4562 0.4889	0.4653	0.4679	Ave		0.4554			0.0100	8.6		20.0			
2,6-Dichlorophenol	0.2707 0.3422	0.3060 0.3418	0.3250 0.3472	0.3281	0.3323	Ave		0.3242			0.0100	7.8		20.0			
Hexachlorobutadiene	0.2865 0.3064	0.2915 0.3115	0.3038 0.3111	0.2997	0.3047	Ave		0.3019			0.0100	3.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

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	+++++ 0.1041	0.0606 0.1069	0.0756 0.1081	0.0901	0.0966	Ave		0.0917			0.0100	19.4		20.0			
4-Chloro-3-methylphenol	0.2546 0.3793	0.3069 0.3827	0.3474 0.3827	0.3589	0.3673	Ave		0.3475			0.2000	13.0		20.0			
2-Methylnaphthalene	0.8144 0.8638	0.8074 0.8673	0.8475 0.8872	0.8532	0.8444	Ave		0.8482			0.4000	3.1		20.0			
1-Methylnaphthalene	0.6890 0.7462	0.7219 0.7570	0.7606 0.7686	0.7312	0.7336	Ave		0.7385			0.0100	3.5		20.0			
Hexachlorocyclopentadiene	0.3901 0.5515	0.4323 0.5581	0.4545 0.5567	0.4900	0.5268	Ave		0.4950			0.0500	12.9		20.0			
1,2,4,5-Tetrachlorobenzene	0.7500 0.7563	0.7055 0.7483	0.7436 0.7340	0.7464	0.7544	Ave		0.7423			0.0100	2.2		20.0			
2,4,6-Trichlorophenol	0.2821 0.4311	0.3392 0.4309	0.3642 0.4275	0.4125	0.4129	Ave		0.3876			0.2000	14.0		20.0			
2,4,5-Trichlorophenol	0.2910 0.4549	0.3634 0.4576	0.4058 0.4413	0.4460	0.4538	Ave		0.4142			0.2000	14.3		20.0			
1,1'-Biphenyl	1.4792 1.6116	1.5551 1.6177	1.5758 1.5975	1.6235	1.5997	Ave		1.5825			0.0100	3.0		20.0			
2-Chloronaphthalene	1.1523 1.2233	1.1796 1.2214	1.1947 1.1882	1.2209	1.1996	Ave		1.1975			0.8000	2.1		20.0			
2-Nitroaniline	0.2548 0.3735	0.2866 0.3624	0.3217 0.3527	0.3529	0.3645	Ave		0.3336			0.0100	12.8		20.0			
Dimethyl phthalate	1.1812 1.4052	1.2016 1.3954	1.2601 1.3834	1.3382	1.3364	Ave		1.3127			0.0100	6.7		20.0			
1,3-Dinitrobenzene	+++++ 0.2215	0.1553 0.2304	0.1775 0.2210	0.2041	0.2120	Ave		0.2031			0.0100	13.4		20.0			
2,6-Dinitrotoluene	0.2167 0.3193	0.2663 0.3247	0.2883 0.3137	0.3091	0.3082	Ave		0.2933			0.2000	12.3		20.0			
Acenaphthylene	1.6906 1.9878	1.7855 1.9873	1.8539 1.9850	1.9073	1.9386	Ave		1.8920			0.9000	5.7		20.0			
3-Nitroaniline	+++++ 0.3234	0.2369 0.3202	0.2607 0.3158	0.3007	0.3113	Ave		0.2956			0.0100	11.3		20.0			
Acenaphthene	1.2378 1.3137	1.2732 1.3141	1.2817 1.2985	1.3250	1.2919	Ave		1.2920			0.9000	2.2		20.0			
2,4-Dinitrophenol	+++++ 0.2328	0.1084 0.2403	0.1115 0.2502	0.1563	0.1918	Lin1	-0.888	0.2450			0.0100				0.9930		0.9900
4-Nitrophenol	+++++ 0.2343	0.1652 0.2326	0.1880 0.2294	0.2165	0.2204	Ave		0.2123			0.0100	12.3		20.0			
2,4-Dinitrotoluene	+++++ 0.4437	0.3454 0.4447	0.3784 0.4394	0.4217	0.4206	Ave		0.4134			0.2000	9.1		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

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	1.7485 1.9341	1.8111 1.9158	1.8471 1.9165	1.8802	1.8521	Ave		1.8632			0.8000	3.3		20.0			
2,3,5,6-Tetrachlorophenol	+++++ 0.4397	0.3137 0.4489	0.3475 0.4490	0.3904	0.4104	Ave		0.4000			0.0100	13.2		20.0			
2,3,4,6-Tetrachlorophenol	0.2726 0.4301	0.3659 0.4424	0.3885 0.4448	0.4158	0.4124	Ave		0.3966			0.0100	14.3		20.0			
2-Naphthylamine	0.8234 1.3022	1.0466 1.3104	1.1268 1.3018	1.2735	1.2179	Ave		1.1753			0.0100	14.5		20.0			
Diethyl phthalate	1.1565 1.4104	1.2607 1.4380	1.2859 1.4025	1.3828	1.3674	Ave		1.3380			0.0100	7.1		20.0			
Hexadecane	0.4121 0.4713	0.4789 0.4561	0.4958 0.4417	0.4889	0.4791	Ave		0.4655				6.0		20.0			
4-Chlorophenyl phenyl ether	0.7750 0.8250	0.7957 0.8332	0.7986 0.8241	0.8109	0.8033	Ave		0.8082			0.4000	2.4		20.0			
4-Nitroaniline	+++++ 0.3524	0.2716 0.3529	0.2932 0.3512	0.3341	0.3334	Ave		0.3270			0.0100	9.8		20.0			
Fluorene	1.3802 1.5858	1.4968 1.5774	1.4944 1.5654	1.5811	1.5137	Ave		1.5244			0.9000	4.6		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1660	0.1047 0.1703	0.1075 0.1719	0.1352	0.1462	Ave		0.1431			0.0100	20.0		20.0			
N-Nitrosodiphenylamine	0.5054 0.6024	0.5797 0.6233	0.5839 0.6169	0.5826	0.5945	Ave		0.5861			0.0100	6.2		20.0			
1,2-Diphenylhydrazine(as Azobenzene)	0.7051 0.7966	0.8187 0.8023	0.8278 0.7670	0.8172	0.8124	Ave		0.7934			0.0100	5.1		20.0			
4-Bromophenyl phenyl ether	0.2063 0.2420	0.2215 0.2492	0.2386 0.2505	0.2333	0.2364	Ave		0.2347			0.1000	6.3		20.0			
Hexachlorobenzene	0.2005 0.2268	0.2209 0.2315	0.2326 0.2299	0.2264	0.2211	Ave		0.2237			0.1000	4.6		20.0			
Atrazine	0.1725 0.2495	0.2004 0.2545	0.2171 0.2511	0.2394	0.2350	Ave		0.2275			0.0100	12.7		20.0			
Pentachlorophenol	0.1479 0.1629	0.1472 0.1750	0.1126 0.1797	0.1367	0.1496	Ave		0.1515			0.0500	14.2		20.0			
n-Octadecane	1.7030 2.0717	1.8672 2.0443	2.1354 2.0045	2.1482	2.0483	Ave		2.0028				7.4		20.0			
Phenanthrene	1.1890 1.2748	1.2154 1.2802	1.2483 1.2917	1.2486	1.2308	Ave		1.2474			0.7000	2.8		20.0			
Anthracene	0.9943 1.2972	1.1600 1.3272	1.2140 1.3240	1.2259	1.2675	Ave		1.2263			0.7000	9.0		20.0			
Carbazole	0.8497 1.1301	0.9882 1.1414	1.0474 1.1486	1.0768	1.0886	Ave		1.0588			0.0100	9.4		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

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	+++++ 1.2835	0.9667 1.3085	1.0582 1.3105	1.1458	1.1903	Ave		1.1805			0.0100	11.3		20.0			
Fluoranthene	1.1003 1.4671	1.2586 1.5002	1.3461 1.4922	1.3599	1.3739	Ave		1.3623			0.6000	9.9		20.0			
Benzidine	+++++ 0.5692	+++++ 0.6024	0.2838 0.6052	0.4140	0.4435	Lin2	-1.308	0.5854			0.0100				0.9900		0.9900
Pyrene	1.1534 1.3445	1.2549 1.3347	1.3091 1.3286	1.3418	1.3342	Ave		1.3002			0.6000	5.1		20.0			
Butyl benzyl phthalate	+++++ 0.4942	0.3212 0.4963	0.3601 0.4933	0.4174	0.4647	Ave		0.4353			0.0100	16.4		20.0			
3,3'-Dichlorobenzidine	+++++ 0.4418	0.2444 0.4533	0.2796 0.4605	0.3407	0.4017	Lin2	-0.443	0.4349			0.0100				0.9910		0.9900
Bis(2-ethylhexyl) phthalate	+++++ 0.7006	0.3880 0.7022	0.4732 0.7042	0.5822	0.6574	Lin2	-0.674	0.6930			0.0100				0.9970		0.9900
Benzo[a]anthracene	1.1416 1.3579	1.2268 1.3815	1.2551 1.3932	1.2934	1.3231	Ave		1.2966			0.8000	6.6		20.0			
Chrysene	1.1018 1.2594	1.1718 1.2546	1.1979 1.2639	1.2149	1.2228	Ave		1.2109			0.7000	4.5		20.0			
Di-n-octyl phthalate	+++++ 1.3247	0.7408 1.3415	0.7058 1.4028	0.9393	1.1729	Lin1	-2.116	1.3781			0.0100				0.9960		0.9900
7,12-Dimethylbenz(a)anthracene	0.4327 0.6651	0.5145 0.6684	0.5697 0.6820	0.6201	0.6519	Ave		0.6005			0.0100	14.8		20.0			
Benzo[b]fluoranthene	1.1537 1.4562	1.2347 1.4679	1.3671 1.5687	1.4148	1.4599	Ave		1.3904			0.7000	9.7		20.0			
Benzo[k]fluoranthene	1.1155 1.5195	1.3303 1.4692	1.3588 1.4499	1.4450	1.4676	Ave		1.3945			0.7000	9.2		20.0			
Benzo[e]pyrene	1.0487 1.3609	1.1504 1.3481	1.2525 1.3744	1.2955	1.3380	Ave		1.2711			0.0100	9.1		20.0			
Benzo[a]pyrene	1.0878 1.4016	1.1303 1.3824	1.2330 1.4114	1.3029	1.3694	Ave		1.2899			0.7000	9.8		20.0			
Indeno[1,2,3-cd]pyrene	0.9313 1.5183	1.1160 1.5040	1.2980 1.5527	1.3702	1.4713	Ave		1.3452			0.5000	16.4		20.0			
Dibenz(a,h)anthracene	0.7685 1.2204	0.8963 1.2184	1.0447 1.2753	1.1071	1.1927	Ave		1.0904			0.4000	16.3		20.0			
Benzo[g,h,i]perylene	0.8873 1.2709	0.9352 1.2618	1.0853 1.3029	1.1486	1.2559	Ave		1.1435			0.5000	14.0		20.0			
2-Fluorophenol (Surr)	0.9433 1.1647	1.0480 1.1716	1.0837 1.1853	1.1445	1.1624	Ave		1.1129				7.5		20.0			
Phenol-d5 (Surr)	1.2891 1.5432	1.4820 1.5810	1.5066 1.5672	1.5607	1.5339	Ave		1.5080				6.2		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

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)	0.3430 0.4102	0.3917 0.4117	0.4011 0.4080	0.4148	0.4099	Ave		0.3988				5.9		20.0			
2-Fluorobiphenyl	1.4277 1.5175	1.4457 1.5087	1.4830 1.5014	1.5025	1.4992	Ave		1.4857				2.2		20.0			
2,4,6-Tribromophenol (Surr)	+++++ 0.0840	0.0646 0.0884	0.0730 0.0902	0.0764	0.0796	Ave		0.0795			0.0100	11.4		20.0			
Terphenyl-d14 (Surr)	0.7354 0.8670	0.7937 0.8643	0.8342 0.8556	0.8473	0.8580	Ave		0.8320				5.5		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151940/3	D08270003.D
Level 2	IC 180-151940/4	D08270004.D
Level 3	IC 180-151940/5	D08270005.D
Level 4	ICIS 180-151940/6	D08270006.D
Level 5	IC 180-151940/7	D08270007.D
Level 6	IC 180-151940/8	D08270008.D
Level 7	IC 180-151940/9	D08270009.D
Level 8	IC 180-151940/10	D08270010.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	+++++ 197373	15431 288446	24572 369629	53629	107901	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodimethylamine	DCB	Ave	2755 253670	13638 380332	26742 496241	65121	136530	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pyridine	DCB	Ave	4763 499963	25782 738438	52336 958531	127655	265474	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methyl methanesulfonate	DCB	Ave	3659 322115	18025 466879	36140 618200	86244	176471	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzaldehyde	DCB	Ave	4775 398700	23586 588634	43258 766535	103678	216478	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol	DCB	Ave	9477 865978	50708 1291671	98155 1695423	234477	476522	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Aniline	DCB	Ave	10529 982866	54991 1474988	106482 1962166	258794	536626	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethyl)ether	DCB	Ave	6456 572881	32933 856257	64920 1116199	150907	312396	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chlorophenol	DCB	Ave	6648 683452	35436 1024174	71869 1362952	174578	369713	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
n-Decane	DCB	Ave	5475 462126	26372 678383	51638 893665	121973	250434	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	10025 838054	46532 1283590	92558 1689651	215618	460549	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	10439 865696	47433 1324513	93939 1734372	229293	467119	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzyl alcohol	DCB	Ave	3871 420998	21318 638480	41585 840398	106085	221882	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	9806 817664	47026 1240263	89299 1649470	213031	451168	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Methylphenol	DCB	Ave	6281 623578	33286 935730	68323 1220050	162138	336965	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

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	14751 1242631	72008 1889719	137252 2474423	326270	676195	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	6880 544169	31543 803211	63478 1055760	147197	295653	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosopyrrolidine	DCB	Ave	2114 289452	15039 445429	30847 595856	74734	155122	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acetophenone	DCB	Ave	12247 978138	57807 1443811	110214 1901165	269817	534473	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodi-n-propylamine	DCB	Ave	5281 469708	27492 675770	54878 887516	132146	261060	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methylphenol, 3 & 4	DCB	Ave	6502 652399	37047 954217	71719 1261390	175728	350167	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachloroethane	DCB	Ave	3756 353182	19815 530835	38887 687341	97169	192976	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene	NPT	Ave	8893 783975	45515 1162575	90685 1545827	220872	431354	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Isophorone	NPT	Ave	13140 1335266	68049 1998697	138987 2641885	350811	703445	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitrophenol	NPT	Ave	+++++ 387330	17822 591362	37572 797385	99536	203813	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dimethylphenol	NPT	Ave	7800 813583	44452 1219307	87710 1600870	214743	432064	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzoic acid	NPT	Lin1	+++++ 346724	+++++ 604130	16099 831525	57976	152788	+++++ 40.0	+++++ 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethoxy)methane	NPT	Ave	9073 792988	45950 1161191	88155 1546206	214718	426156	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dichlorophenol	NPT	Ave	6001 676586	33619 1023138	69233 1361346	175091	359348	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4-Trichlorobenzene	NPT	Ave	9452 827436	46669 1242664	90400 1670736	219486	442701	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Naphthalene	NPT	Ave	26801 2255631	130703 3434071	247627 4594941	592967	1222921	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloroaniline	NPT	Ave	8602 927024	49598 1404773	98112 1870066	243925	493367	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dichlorophenol	NPT	Ave	6337 661302	34843 995809	69892 1327959	171987	350413	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobutadiene	NPT	Ave	6706 592088	33197 907594	65336 1189781	157124	321270	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Caprolactam	NPT	Ave	+++++ 201093	6905 311353	16267 413543	47247	101900	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloro-3-methylphenol	NPT	Ave	5959 733035	34951 1114851	74708 1463681	188133	387246	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

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	19063 1669295	91938 2526821	182259 3393152	447226	890372	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1-Methylnaphthalene	NPT	Ave	16127 1442023	82207 2205431	163575 2939600	383306	773454	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorocyclopentadiene	ANT	Ave	6103 715858	32456 1113755	66585 1503712	166401	359967	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	11733 981820	52966 1493415	108929 1982696	253471	515477	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Trichlorophenol	ANT	Ave	4413 559680	25464 859867	53356 1154683	140085	282164	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,5-Trichlorophenol	ANT	Ave	4553 590477	27283 913214	59444 1191881	151442	310100	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,1'-Biphenyl	ANT	Ave	23142 2092034	116750 3228436	230833 4314960	551287	1093083	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chloronaphthalene	ANT	Ave	18027 1588013	88562 2437561	175008 3209389	414565	819668	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitroaniline	ANT	Ave	3986 484793	21518 723186	47126 952726	119839	249067	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dimethyl phthalate	ANT	Ave	18479 1824153	90214 2784740	184594 3736676	454395	913141	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dinitrobenzene	ANT	Ave	+++++ 287597	11660 459895	26008 596953	69318	144831	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dinitrotoluene	ANT	Ave	3390 414440	19994 647956	42233 847318	104957	210616	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthylene	ANT	Ave	26449 2580374	134052 3965951	271577 5361869	647649	1324601	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3-Nitroaniline	ANT	Ave	+++++ 419862	17786 639039	38185 852923	102113	212698	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthene	ANT	Ave	19365 1705375	95586 2622396	187752 3507444	449927	882731	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dinitrophenol	ANT	Lin1	+++++ 604486	16271 958993	32665 1351450	106159	262062	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
4-Nitrophenol	ANT	Ave	+++++ 608398	24800 928205	55083 1239225	147011	301156	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
2,4-Dinitrotoluene	ANT	Ave	+++++ 575971	25934 887387	55424 1186763	143206	287358	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenzofuran	ANT	Ave	27355 2510650	135973 3823243	270577 5176736	638452	1265525	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,5,6-Tetrachlorophenol	ANT	Ave	+++++ 570841	23553 895895	50909 1212705	132569	280423	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	4265 558343	27470 882967	56915 1201534	141201	281807	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

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	12882 1690393	78575 2615066	165058 3516424	432426	832157	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Diethyl phthalate	ANT	Ave	18094 1830833	94651 2869830	188374 3788445	469555	934356	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexadecane	NPT	Ave	9646 910814	54531 1328786	106626 1689230	256287	505124	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chlorophenyl phenyl ether	ANT	Ave	12125 1070906	59739 1662715	116990 2226097	275354	548867	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Nitroaniline	ANT	Ave	+++++ 457519	20389 704181	42946 948636	113459	227809	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluorene	ANT	Ave	21593 2058565	112380 3147911	218910 4228475	536905	1034271	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 841937	28568 1304345	57853 1784464	177117	376550	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
N-Nitrosodiphenylamine	PHN	Ave	28936 3054825	158113 4772991	314082 6406001	762970	1531602	0.800 80.0	4.00 120	8.00 160	20.0	40.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	20184 2019882	111645 3071727	222649 3982021	535162	1046464	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Bromophenyl phenyl ether	PHN	Ave	5906 613479	30206 953903	64176 1300452	152770	304538	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobenzene	PHN	Ave	5740 575078	30125 886391	62558 1193780	148229	284825	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Atrazine	PHN	Ave	4939 632646	27333 974356	58399 1303874	156746	302744	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pentachlorophenol	PHN	Ave	8469 825885	40150 1340193	60561 1866135	179075	385498	0.800 80.0	4.00 120	8.00 160	20.0	40.0
n-Octadecane	DCB	Ave	10036 1042593	53801 1512839	115405 1954872	280304	557592	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenanthrene	PHN	Ave	34039 3232327	165744 4901195	335765 6706452	817668	1585431	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Anthracene	PHN	Ave	28463 3289228	158191 5081227	326517 6874021	802784	1632655	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Carbazole	PHN	Ave	24325 2865524	134759 4369754	281716 5963353	705160	1402210	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-butyl phthalate	PHN	Ave	+++++ 3254336	131834 5009737	284636 6803759	750296	1533243	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluoranthene	PHN	Ave	31499 3719899	171635 5743660	362057 7747328	890548	1769801	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzidine	CRY	Lin2	+++++ 1612161	+++++ 2643104	80226 3616899	290914	604145	+++++ 40.0	+++++ 60.0	4.00 80.0	10.0	20.0
Pyrene	CRY	Ave	32613 3808141	177971 5856402	370018 7939804	942774	1817383	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

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	+++++ 1399738	45550 2177555	101775 2948041	293262	632910	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3,3'-Dichlorobenzidine	CRY	Lin2	+++++ 1251216	34660 1989026	79033 2752277	239375	547194	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-ethylhexyl) phthalate	CRY	Lin2	+++++ 1984257	55029 3081046	133741 4208095	409057	895485	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]anthracene	CRY	Ave	32279 3846103	173982 6061874	354775 8325840	908773	1802182	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Chrysene	CRY	Ave	31152 3567125	166184 5505322	338591 7553430	853582	1665530	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-octyl phthalate	PRY	Lin1	+++++ 3308014	85907 5290377	157819 7471302	536425	1367652	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
7,12-Dimethylbenz(a)anthracene	PRY	Ave	10216 1660846	59662 2635748	127378 3632337	354164	760124	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	27241 3636264	143186 5788634	305692 8354915	807964	1702232	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	26338 3794541	154273 5793731	303823 7722175	825218	1711220	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[e]pyrene	PRY	Ave	24760 3398497	133409 5316287	280062 7319965	739858	1560075	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]pyrene	PRY	Ave	25684 3500034	131081 5451543	275698 7517239	744082	1596726	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	21988 3791364	129412 5931182	290237 8269617	782495	1715504	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	18145 3047446	103942 4804793	233595 6791957	632284	1390642	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	20951 3173770	108456 4975714	242670 6939445	655950	1464342	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorophenol (Surr)	DCB	Ave	5559 586128	30197 867016	58564 1155975	149333	316444	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol-d5 (Surr)	DCB	Ave	7597 776609	42704 1169982	81423 1528437	203640	417566	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene-d5 (Surr)	NPT	Ave	8029 792718	44602 1199362	86267 1560614	217414	432164	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorobiphenyl	ANT	Ave	22336 1969852	108540 3010856	217243 4055390	510190	1024406	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	+++++ 212962	8813 338544	19631 468486	50044	102568	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Terphenyl-d14 (Surr)	CRY	Ave	20793 2455660	112562 3792701	235803 5113114	595319	1168734	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151940/3	D08270003.D
Level 2	IC 180-151940/4	D08270004.D
Level 3	IC 180-151940/5	D08270005.D
Level 4	ICIS 180-151940/6	D08270006.D
Level 5	IC 180-151940/7	D08270007.D
Level 6	IC 180-151940/8	D08270008.D
Level 7	IC 180-151940/9	D08270009.D
Level 8	IC 180-151940/10	D08270010.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Benzoic acid	+++++ 2.5	+++++ 5.7	25.8	-12.2	-14.4	-7.4	40	40	40	40	40	40
2,4-Dinitrophenol	+++++ 1.1	34.8 4.4	-9.2	-18.1	-12.7	-0.4	40	40 40	40	40	40	40
Benzidine	+++++ 6.6	+++++ 6.2	4.3	-6.9	-13.1	2.8	30	30	30	30	30	30
3,3'-Dichlorobenzidine	+++++ 5.9	7.1 7.2	-10.3	-11.5	-2.5	4.1	30	30 30	30	30	30	30
Bis(2-ethylhexyl) phthalate	+++++ 2.9	4.6 2.8	-7.4	-6.3	-0.3	3.5	40	40 40	40	40	40	40
Di-n-octyl phthalate	+++++ -0.1	30.5 3.7	-10.4	-16.5	-7.2	0.0	40	40 40	40	40	40	40

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Aug-2015 05:25:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-003
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:14:51 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 07:32:41

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	6.132	6.132	0.000	97	117861	8.00	8.00	
* 2 Naphthalene-d8	136	7.414	7.414	0.000	100	468129	8.00	8.00	
* 3 Acenaphthene-d10	164	9.118	9.118	0.000	92	312898	8.00	8.00	
* 4 Phenanthrene-d10	188	10.550	10.550	0.000	98	572551	8.00	8.00	
* 5 Chrysene-d12	240	14.242	14.242	0.000	97	565492	8.00	8.00	
* 6 Perylene-d12	264	17.100	17.100	0.000	97	472221	8.00	8.00	
$ 7 2-Fluorophenol	112	4.674	4.674	0.000	89	5559	0.4000	0.3390	
$ 8 Phenol-d5	99	5.753	5.753	0.000	94	7597	0.4000	0.3420	
$ 9 Nitrobenzene-d5	82	6.693	6.693	0.000	87	8029	0.4000	0.3441	
$ 10 2-Fluorobiphenyl	172	8.456	8.456	0.000	99	22336	0.4000	0.3844	
$ 11 2,4,6-Tribromophenol	330	9.872	9.872	0.000	1	1477	0.4000	0.2597	
$ 12 Terphenyl-d14	244	12.447	12.447	0.000	99	20793	0.4000	0.3536	
13 1,4-Dioxane	88	1.506	1.506	0.000	1	4028	0.4000	0.6469	M
14 N-Nitrosodimethylamine	74	2.077	2.077	0.000	78	2755	0.4000	0.3775	M
15 Pyridine	79	2.179	2.179	0.000	55	4763	0.4000	0.3404	M
21 Methyl methanesulfonate	80	4.428	4.428	0.000	80	3659	0.4000	0.3874	
25 Benzaldehyde	77	5.662	5.662	0.000	92	4775	0.4000	0.4056	
26 Phenol	94	5.763	5.763	0.000	0	9477	0.4000	0.3693	M
27 Aniline	93	5.785	5.785	0.000	0	10529	0.4000	0.3670	M
29 Bis(2-chloroethyl)ether	93	5.854	5.854	0.000	89	6456	0.4000	0.3817	
30 2-Chlorophenol	128	5.913	5.913	0.000	93	6648	0.4000	0.3430	
31 n-Decane	43	5.982	5.982	0.000	80	5475	0.4000	0.4014	
32 1,3-Dichlorobenzene	146	6.073	6.073	0.000	95	10025	0.4000	0.4031	
33 1,4-Dichlorobenzene	146	6.148	6.148	0.000	90	10439	0.4000	0.4073	
34 Benzyl alcohol	108	6.276	6.276	0.000	88	3871	0.4000	0.3307	
35 1,2-Dichlorobenzene	146	6.308	6.308	0.000	91	9806	0.4000	0.4025	
36 2-Methylphenol	108	6.388	6.388	0.000	94	6281	0.4000	0.3509	
37 Indene	116	6.399	6.399	0.000	87	14751	0.4000	0.3988	
38 2,2'-oxybis[1-chloropropan	45	6.421	6.421	0.000	86	6880	0.4000	0.4198	
39 N-Nitrosopyrrolidine	100	6.506	6.506	0.000	75	2114	0.4000	0.2620	
40 Acetophenone	105	6.538	6.538	0.000	88	12247	0.4000	0.4157	

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	6.543	6.543	0.000	72	5281	0.4000	0.3776	
42 4-Methylphenol	108	6.543	6.543	0.000	89	6502	0.4000	0.3452	
45 Hexachloroethane	117	6.661	6.661	0.000	89	3756	0.4000	0.3628	
46 Nitrobenzene	77	6.714	6.714	0.000	85	8893	0.4000	0.3752	
48 Isophorone	82	6.949	6.949	0.000	97	13140	0.4000	0.3448	
49 2-Nitrophenol	139	7.035	7.035	0.000	91	2948	0.4000	0.2659	
50 2,4-Dimethylphenol	107	7.067	7.067	0.000	95	7800	0.4000	0.3323	
52 Benzoic acid	122	7.094	7.094	0.000	84	1937	0.4000	3.79	
53 Bis(2-chloroethoxy)methane	93	7.158	7.158	0.000	96	9073	0.4000	0.3843	
54 2,4-Dichlorophenol	162	7.270	7.270	0.000	94	6001	0.4000	0.3149	
56 1,2,4-Trichlorobenzene	180	7.361	7.361	0.000	92	9452	0.4000	0.3841	
58 Naphthalene	128	7.436	7.436	0.000	95	26801	0.4000	0.3947	
59 4-Chloroaniline	127	7.478	7.478	0.000	93	8602	0.4000	0.3228	
60 2,6-Dichlorophenol	162	7.494	7.494	0.000	93	6337	0.4000	0.3341	
62 Hexachlorobutadiene	225	7.564	7.564	0.000	92	6706	0.4000	0.3796	
64 Caprolactam	113	7.777	7.777	0.000	75	899	0.4000	0.1675	
67 4-Chloro-3-methylphenol	107	7.938	7.938	0.000	92	5959	0.4000	0.2931	
69 2-Methylnaphthalene	142	8.109	8.109	0.000	91	19063	0.4000	0.3841	
71 1-Methylnaphthalene	142	8.205	8.205	0.000	92	16127	0.4000	0.3732	
72 Hexachlorocyclopentadiene	237	8.269	8.269	0.000	93	6103	0.4000	0.3152	
73 1,2,4,5-Tetrachlorobenzene	216	8.274	8.274	0.000	95	11733	0.4000	0.4041	
74 2,4,6-Trichlorophenol	196	8.376	8.376	0.000	90	4413	0.4000	0.2911	
75 2,4,5-Trichlorophenol	196	8.408	8.408	0.000	92	4553	0.4000	0.2810	
76 1,1'-Biphenyl	154	8.552	8.552	0.000	95	23142	0.4000	0.3739	
77 2-Chloronaphthalene	162	8.579	8.579	0.000	96	18027	0.4000	0.3849	
79 2-Nitroaniline	65	8.659	8.659	0.000	77	3986	0.4000	0.3055	
82 Dimethyl phthalate	163	8.819	8.819	0.000	98	18479	0.4000	0.3599	
83 1,3-Dinitrobenzene	168	8.857	8.857	0.000	81	1810	0.4000	0.2278	
84 2,6-Dinitrotoluene	165	8.883	8.883	0.000	89	3390	0.4000	0.2955	
85 Acenaphthylene	152	8.985	8.985	0.000	98	26449	0.4000	0.3574	
86 3-Nitroaniline	138	9.049	9.049	0.000	42	2915	0.4000	0.2522	
88 Acenaphthene	153	9.150	9.150	0.000	94	19365	0.4000	0.3832	
87 2,4-Dinitrophenol	184	9.150	9.150	0.000	60	2912	0.8000	3.93	
89 4-Nitrophenol	109	9.182	9.182	0.000	91	3092	0.8000	0.3723	
91 2,4-Dinitrotoluene	165	9.273	9.273	0.000	90	3550	0.4000	0.2196	
93 Dibenzofuran	168	9.311	9.311	0.000	96	27355	0.4000	0.3754	
95 2,3,5,6-Tetrachlorophenol	232	9.385	9.385	0.000	84	3767	0.4000	0.2408	
96 2,3,4,6-Tetrachlorophenol	232	9.423	9.423	0.000	67	4265	0.4000	0.2750	
97 2-Naphthylamine	143	9.455	9.455	0.000	95	12882	0.4000	0.2802	
98 Diethyl phthalate	149	9.487	9.487	0.000	97	18094	0.4000	0.3457	
99 Hexadecane	57	9.498	9.498	0.000	94	9646	0.4000	0.3541	
100 4-Chlorophenyl phenyl ethe	204	9.621	9.621	0.000	90	12125	0.4000	0.3836	
101 4-Nitroaniline	138	9.631	9.631	0.000	81	2918	0.4000	0.2282	
103 Fluorene	166	9.642	9.642	0.000	97	21593	0.4000	0.3622	
104 4,6-Dinitro-2-methylphenol	198	9.663	9.663	0.000	89	5532	0.8000	0.5400	
105 N-Nitrosodiphenylamine	169	9.733	9.733	0.000	64	28936	0.8000	0.6898	
90 1,2-Diphenylhydrazine	77	9.775	9.775	0.000	97	20184	0.4000	0.3555	
57 Azobenzene	77	9.775	9.775	0.000	97	20184	0.4000	0.3555	
110 4-Bromophenyl phenyl ether	248	10.091	10.091	0.000	65	5906	0.4000	0.3516	
112 Hexachlorobenzene	284	10.181	10.181	0.000	86	5740	0.4000	0.3585	
113 Atrazine	200	10.213	10.213	0.000	87	4939	0.4000	0.3034	
116 Pentachlorophenol	266	10.358	10.358	0.000	88	8469	0.8000	0.7813	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.368	10.368	0.000	94	10036	0.4000	0.3401	
121 Phenanthrene	178	10.577	10.577	0.000	95	34039	0.4000	0.3813	
122 Anthracene	178	10.630	10.630	0.000	98	28463	0.4000	0.3243	
124 Carbazole	167	10.774	10.774	0.000	96	24325	0.4000	0.3210	
126 Di-n-butyl phthalate	149	11.100	11.100	0.000	99	22362	0.4000	0.2647	
131 Fluoranthene	202	11.955	11.955	0.000	97	31499	0.4000	0.3231	
132 Benzidine	184	12.094	12.094	0.000	1	4323	0.4000	2.34	
133 Pyrene	202	12.270	12.270	0.000	97	32613	0.4000	0.3549	
138 Butyl benzyl phthalate	149	13.178	13.178	0.000	92	7098	0.4000	0.2307	
144 3,3'-Dichlorobenzidine	252	14.151	14.151	0.000	1	5358	0.4000	1.19	
145 Bis(2-ethylhexyl) phthalat	149	14.215	14.215	0.000	29	8337	0.4000	1.14	
146 Benzo[a]anthracene	228	14.226	14.226	0.000	97	32279	0.4000	0.3522	
147 Chrysene	228	14.290	14.290	0.000	97	31152	0.4000	0.3640	
150 Di-n-octyl phthalate	149	15.497	15.497	0.000	0	19083	0.4000	1.77	M
151 7,12-Dimethylbenz(a)anthra	256	16.309	16.309	0.000	0	10216	0.4000	0.2882	M
152 Benzo[b]fluoranthene	252	16.325	16.325	0.000	95	27241	0.4000	0.3319	M
153 Benzo[k]fluoranthene	252	16.384	16.384	0.000	96	26338	0.4000	0.3200	M
219 Benzo[e]pyrene	252	16.886	16.886	0.000	0	24760	0.4000	0.3300	
154 Benzo[a]pyrene	252	16.987	16.987	0.000	78	25684	0.4000	0.3373	M
157 Indeno[1,2,3-cd]pyrene	276	19.402	19.402	0.000	87	21988	0.4000	0.2769	M
158 Dibenz(a,h)anthracene	278	19.424	19.424	0.000	79	18145	0.4000	0.2819	M
159 Benzo[g,h,i]perylene	276	20.049	20.049	0.000	55	20951	0.4000	0.3104	M
S 197 Methyl Phenols,Total	108				0		0.8000	0.6961	
S 199 Total Cresols	108				0		0.8000	0.6961	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD0.4i_00009 Amount Added: 1.00 Units: mL

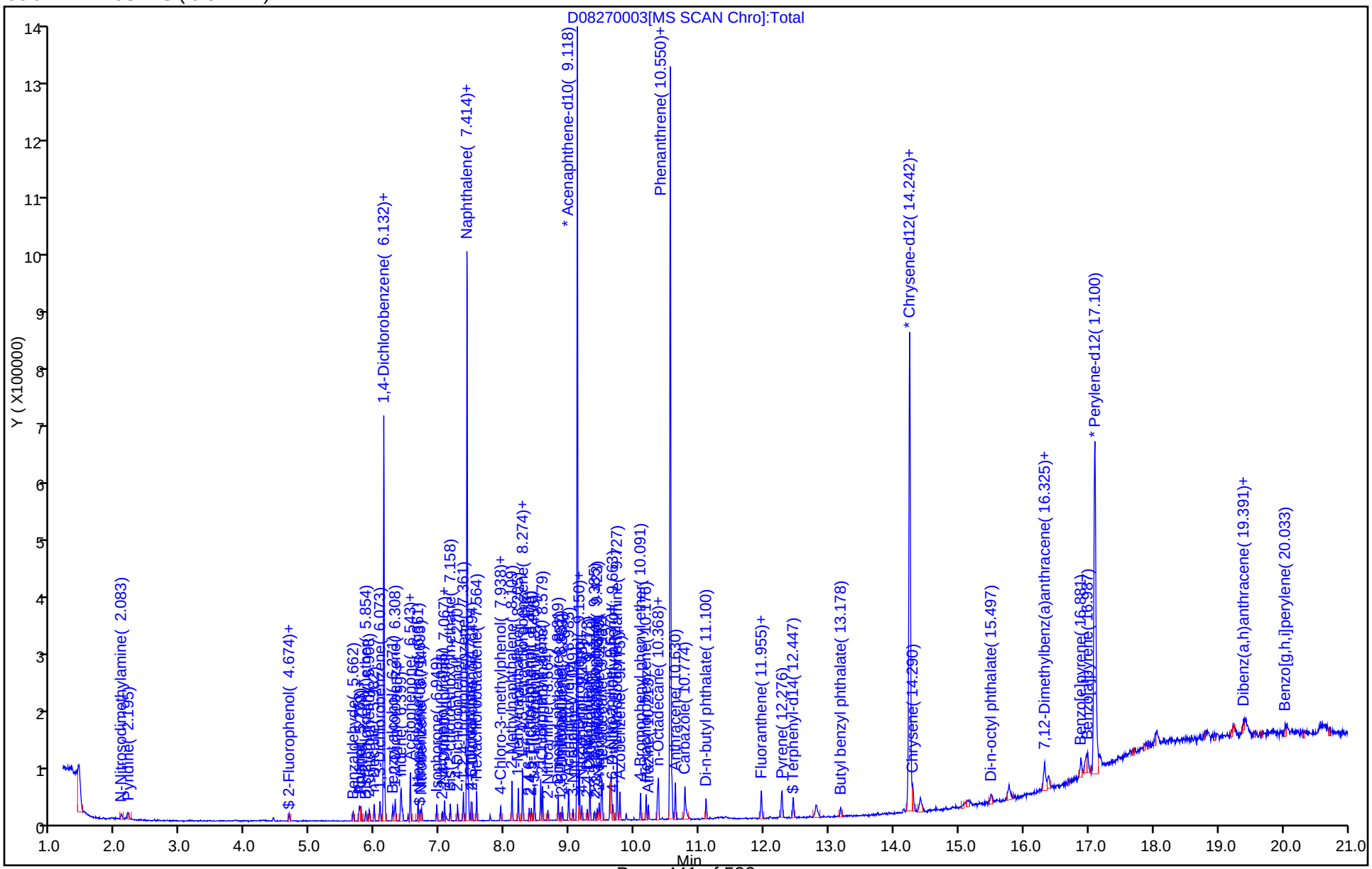
Report Date: 27-Aug-2015 10:14:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D

Injection Date:	27-Aug-2015 05:25:30	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

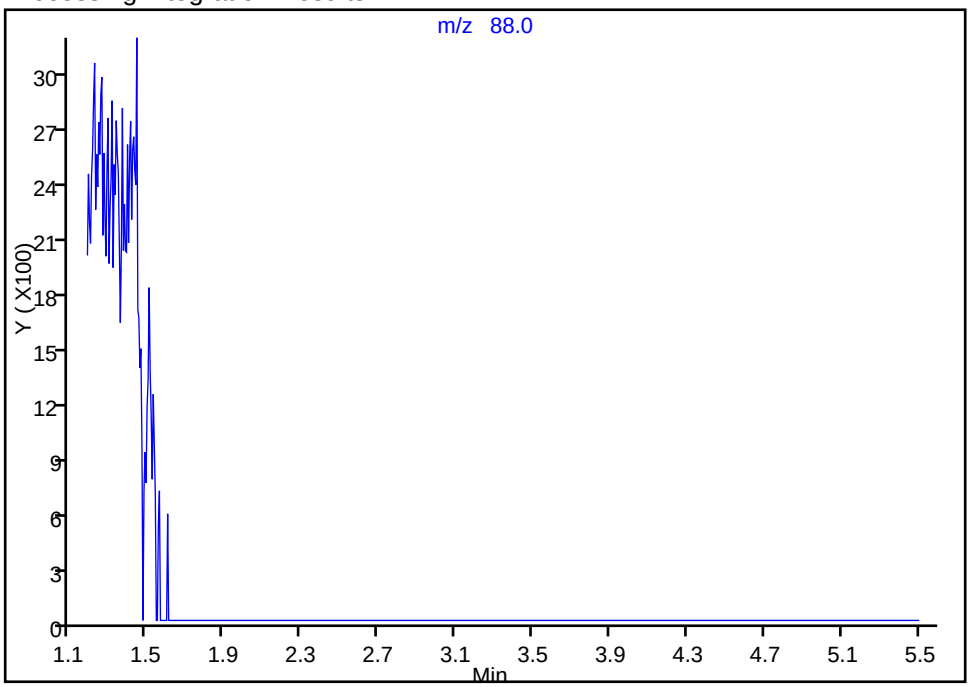
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 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

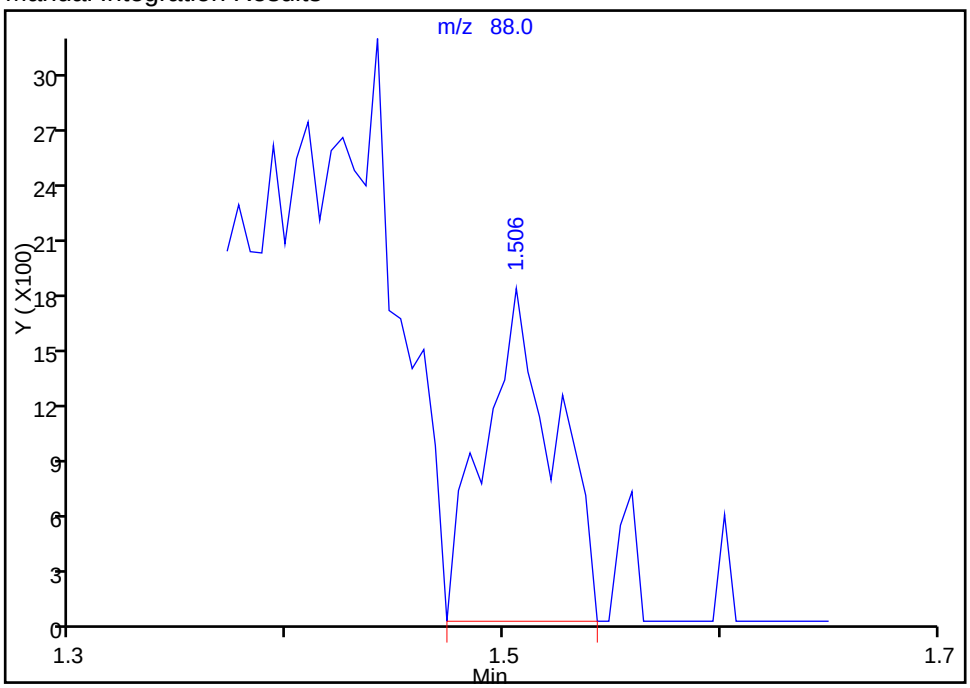
Not Detected
Expected RT: 1.51

Processing Integration Results



Manual Integration Results

RT: 1.51
Area: 4028
Amount: 0.646883
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

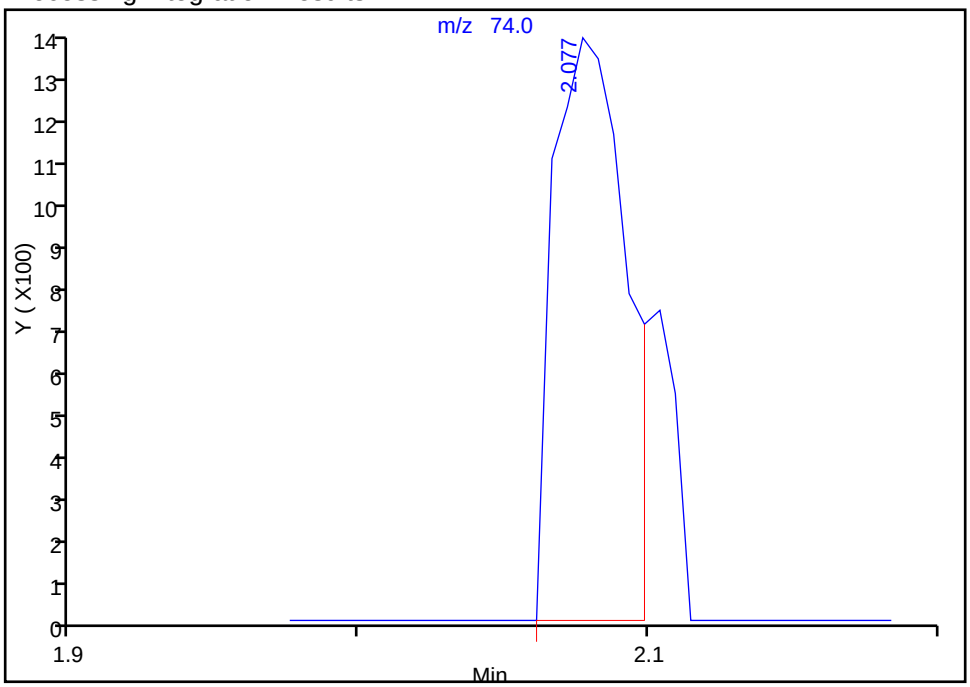
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 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

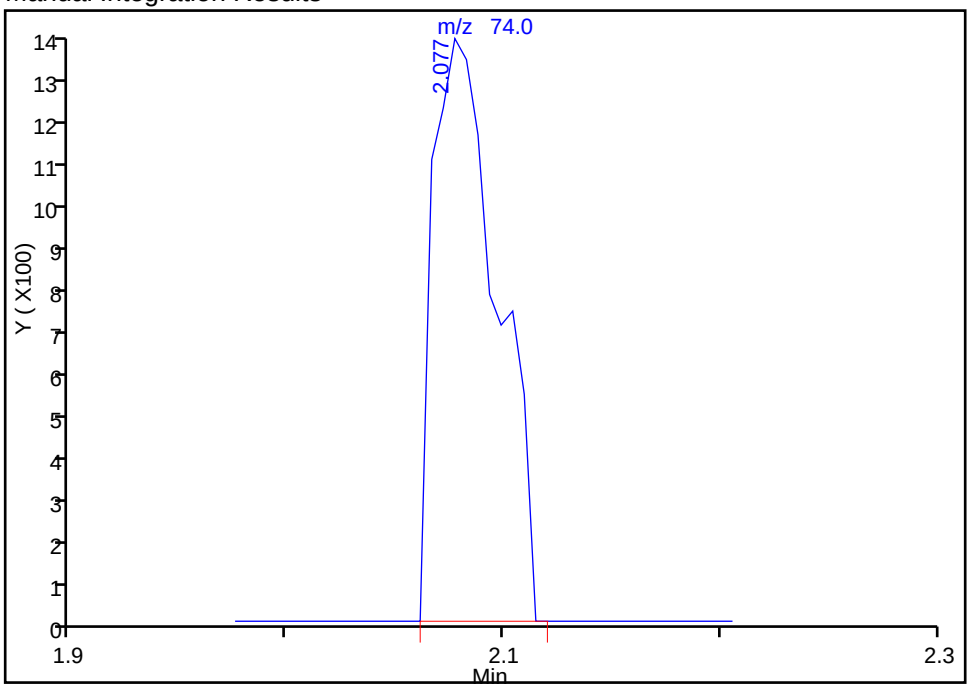
Processing Integration Results

RT: 2.08
Area: 2362
Amount: 0.343303
Amount Units: ng



Manual Integration Results

RT: 2.08
Area: 2755
Amount: 0.377483
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

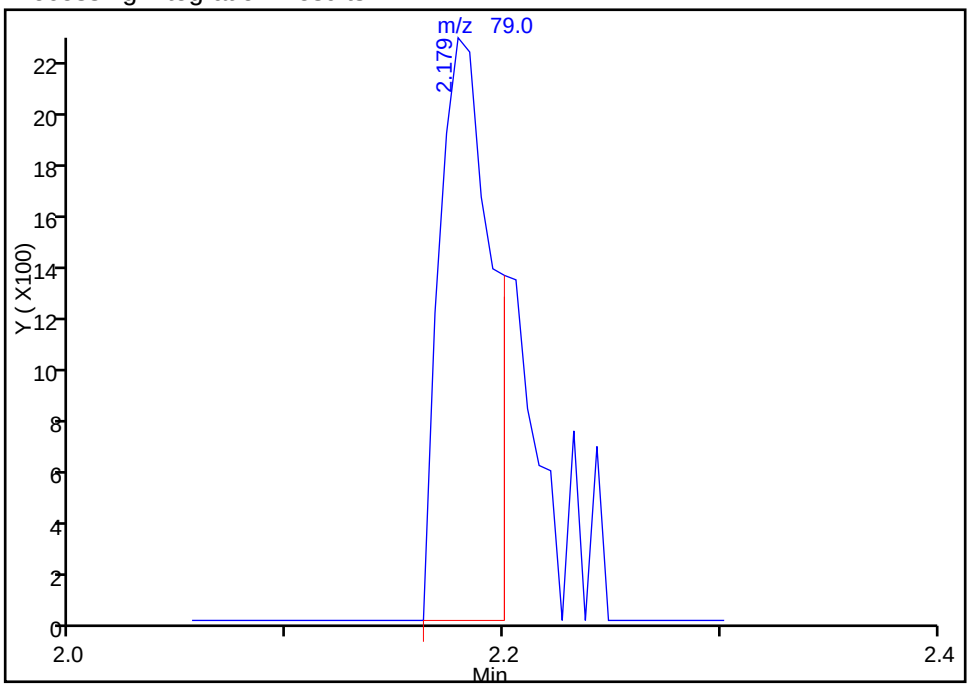
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 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

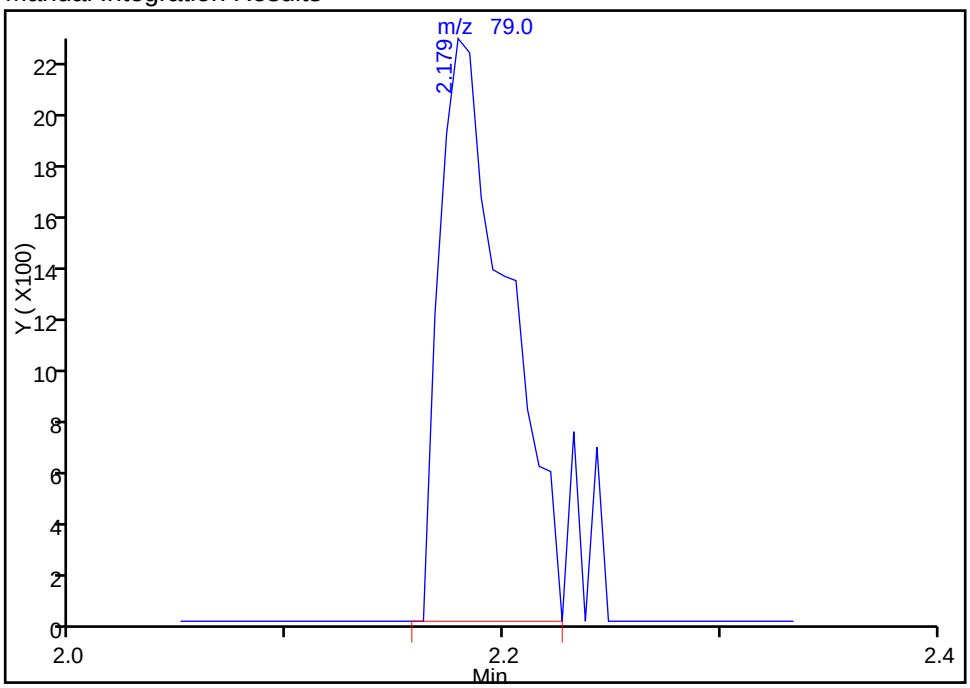
Processing Integration Results

RT: 2.18
Area: 3721
Amount: 0.290900
Amount Units: ng



Manual Integration Results

RT: 2.18
Area: 4763
Amount: 0.340350
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

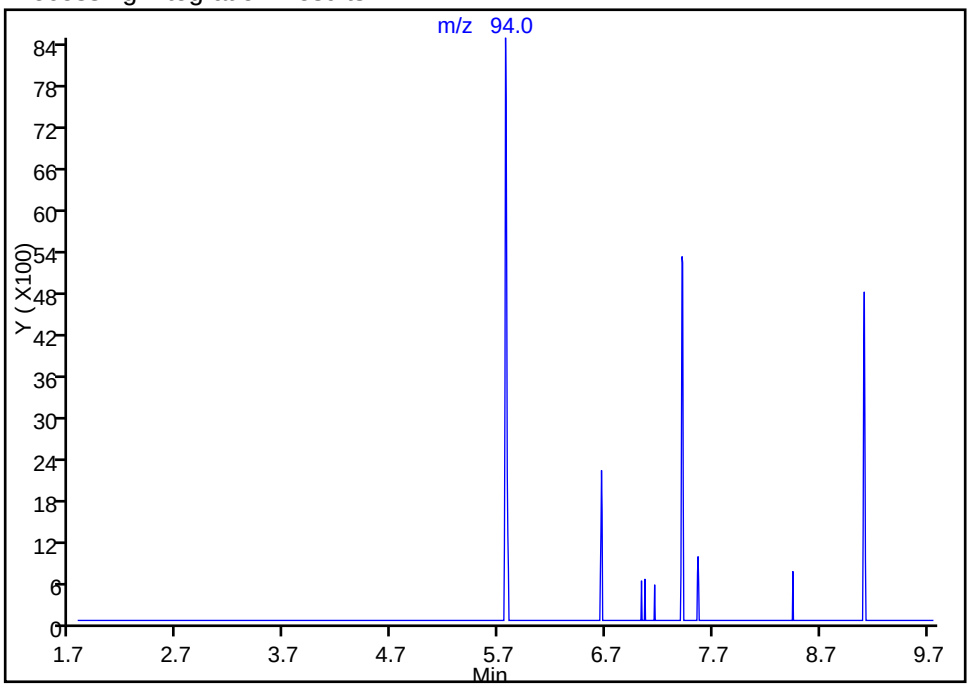
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 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

26 Phenol, CAS: 108-95-2

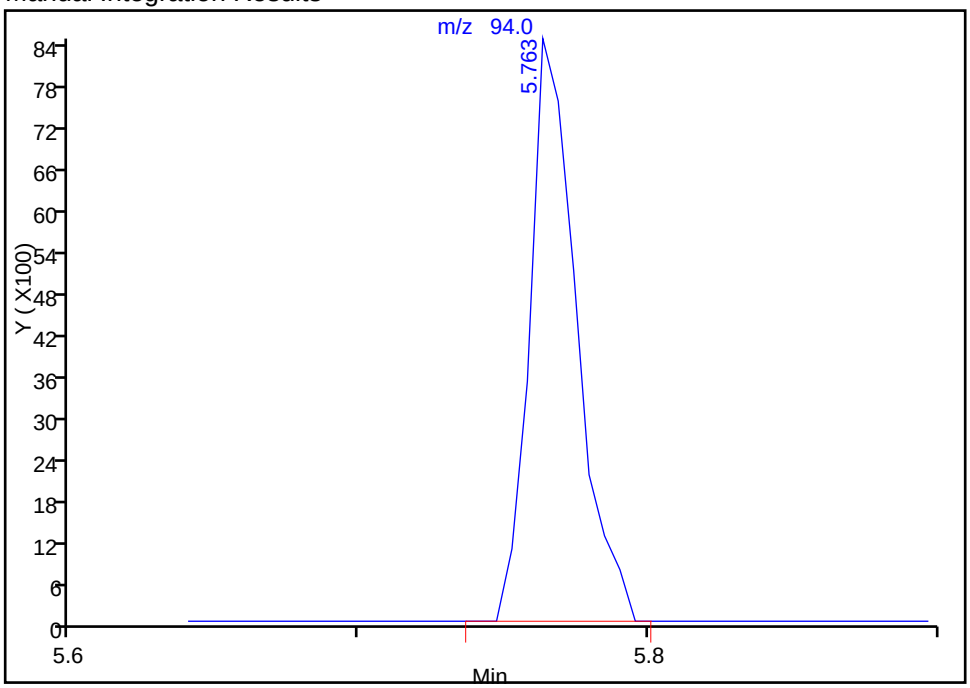
Not Detected
Expected RT: 5.76

Processing Integration Results



Manual Integration Results

RT: 5.76
Area: 9477
Amount: 0.369259
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

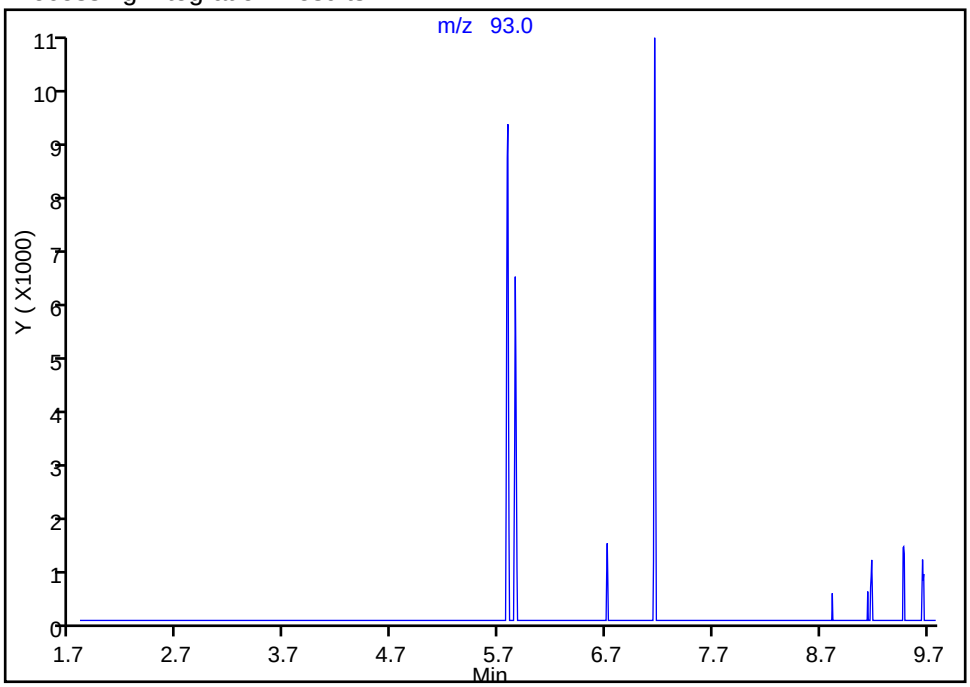
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	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		

27 Aniline, CAS: 62-53-3

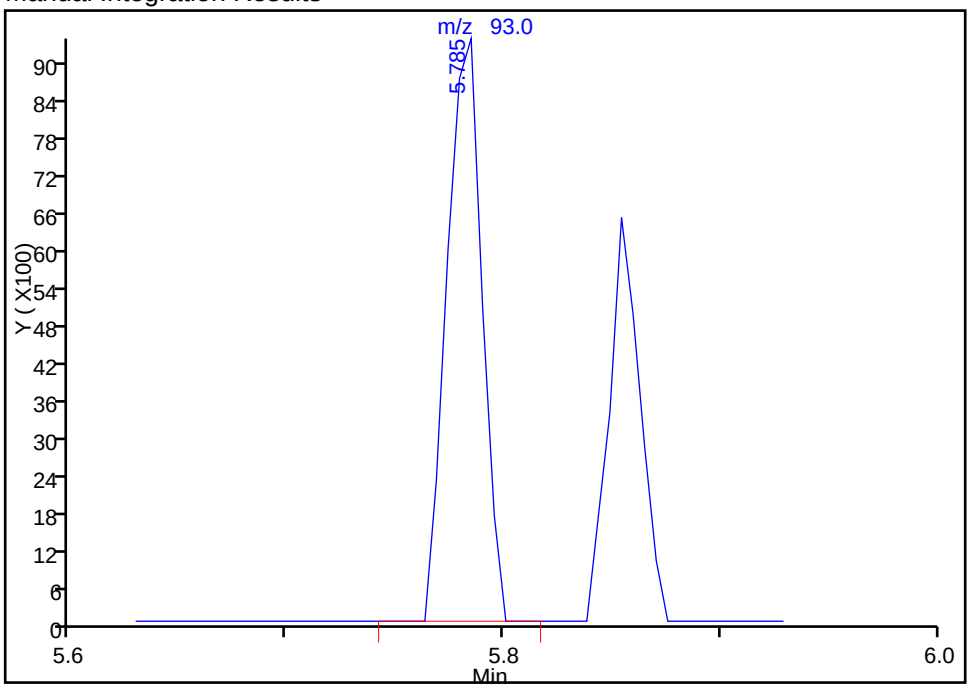
Not Detected
Expected RT: 5.78

Processing Integration Results



Manual Integration Results

RT: 5.78
Area: 10529
Amount: 0.367010
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

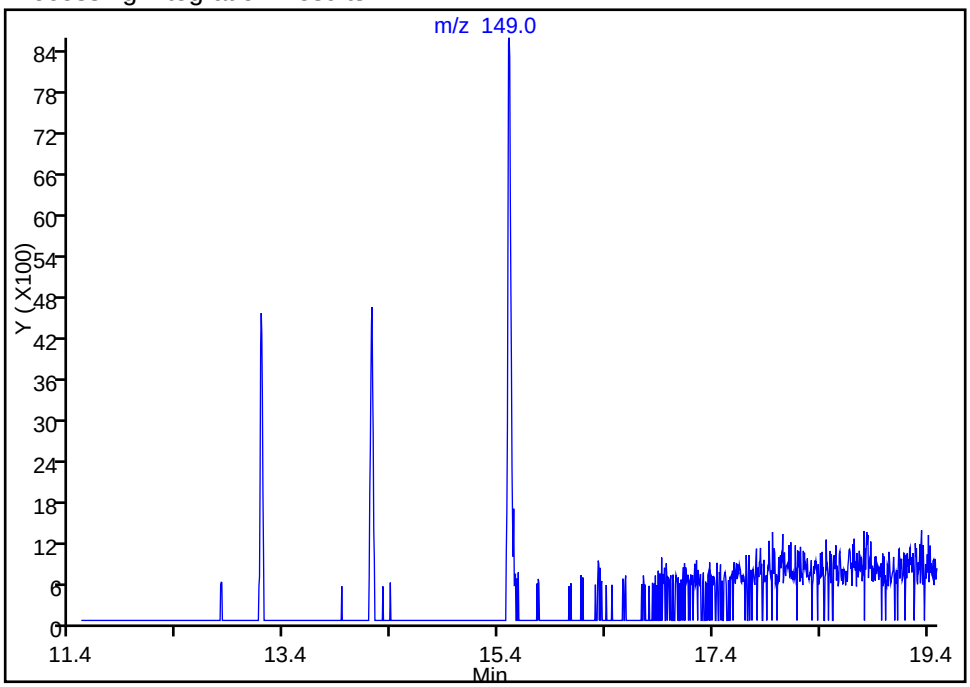
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	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		

150 Di-n-octyl phthalate, CAS: 117-84-0

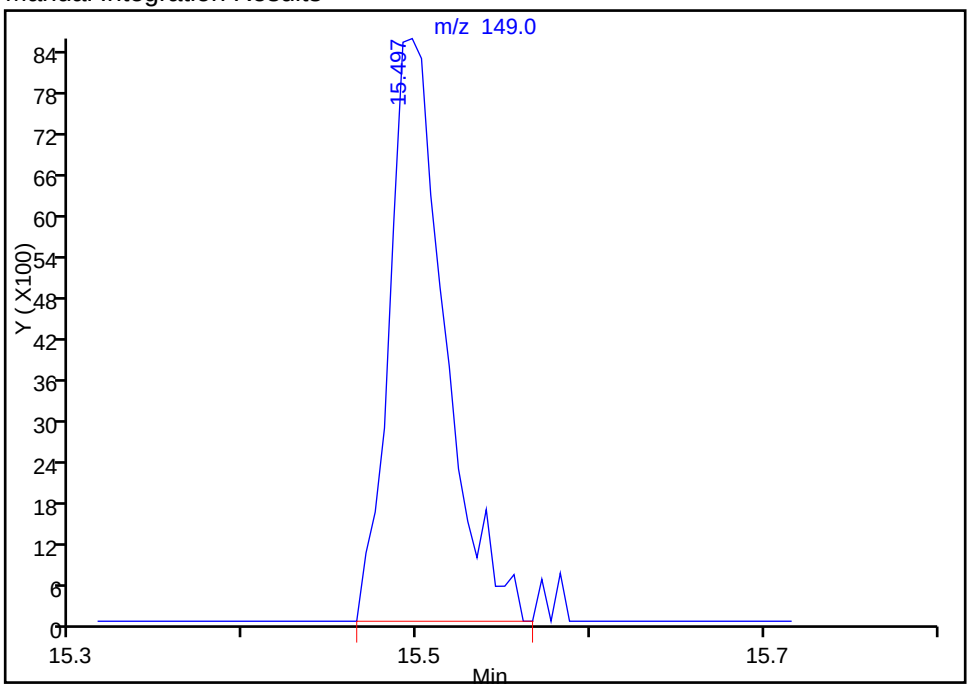
Not Detected
Expected RT: 15.50

Processing Integration Results



Manual Integration Results

RT: 15.50
Area: 19083
Amount: 1.769964
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

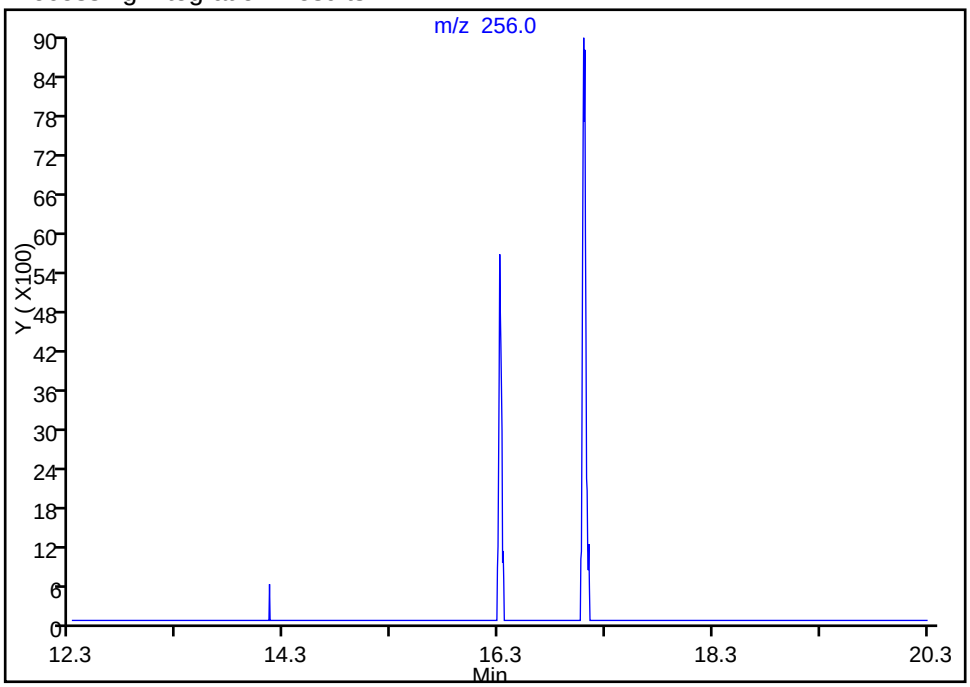
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	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		

151 7,12-Dimethylbenz(a)anthracene, CAS: 57-97-6

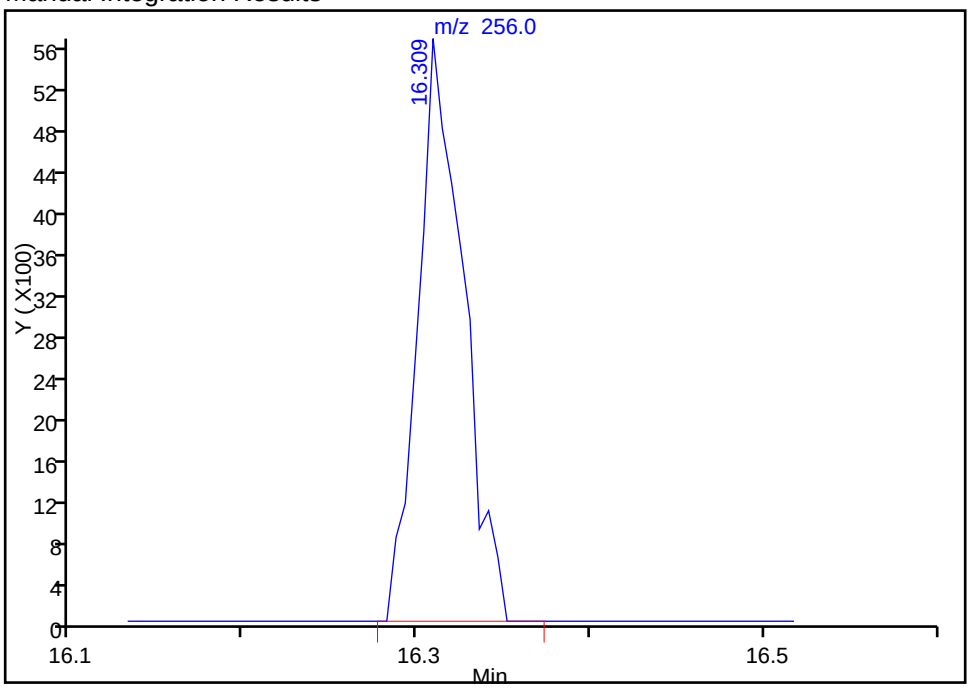
Not Detected
Expected RT: 16.31

Processing Integration Results



Manual Integration Results

RT: 16.31
Area: 10216
Amount: 0.288192
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

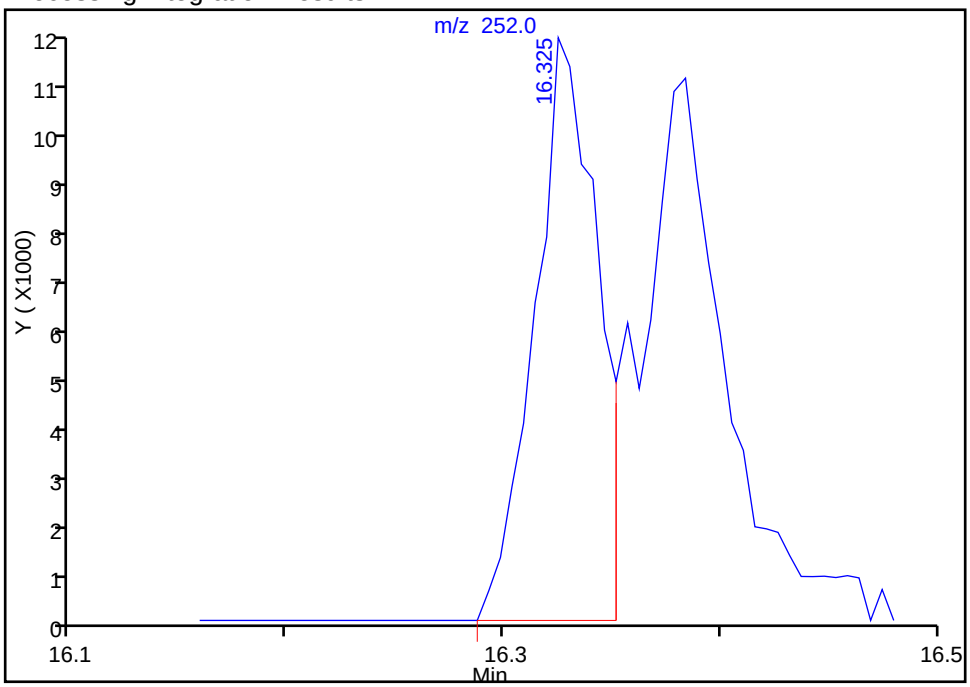
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 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

152 Benzo[b]fluoranthene, CAS: 205-99-2

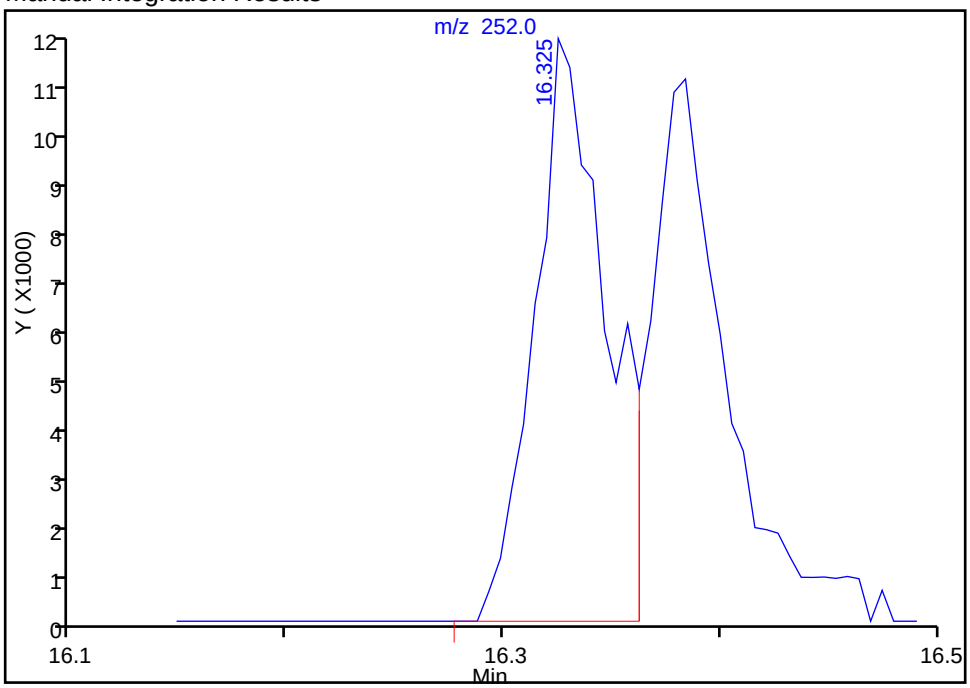
Processing Integration Results

RT: 16.33
Area: 23824
Amount: 0.321240
Amount Units: ng



Manual Integration Results

RT: 16.33
Area: 27241
Amount: 0.331922
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Split an Integrated Peak
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

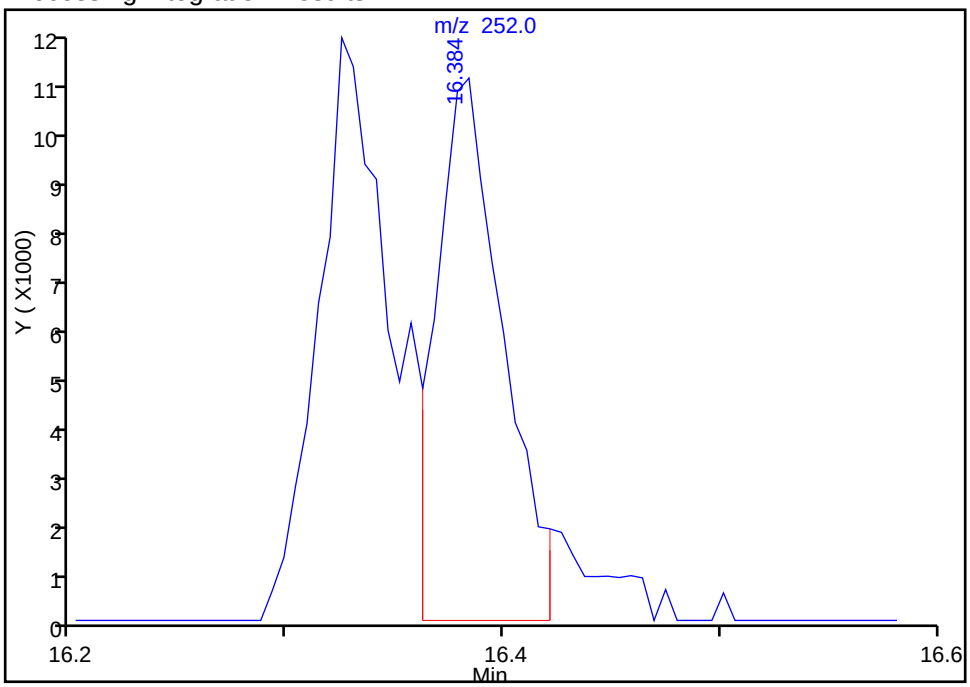
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	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		

153 Benzo[k]fluoranthene, CAS: 207-08-9

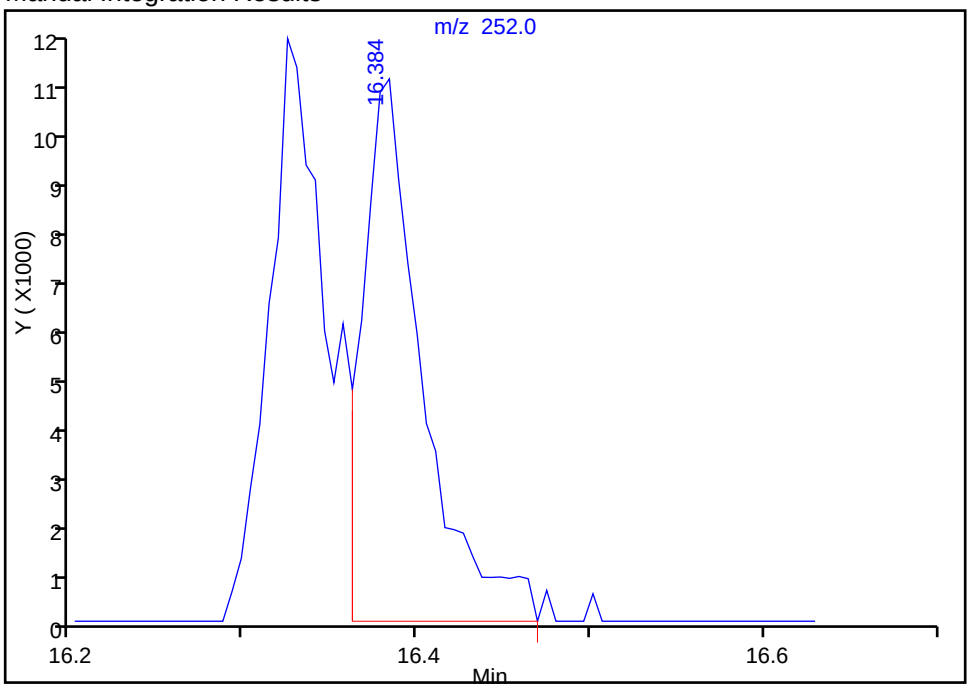
Processing Integration Results

RT: 16.38
Area: 23656
Amount: 0.312122
Amount Units: ng



Manual Integration Results

RT: 16.38
Area: 26338
Amount: 0.319976
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Split an Integrated Peak
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

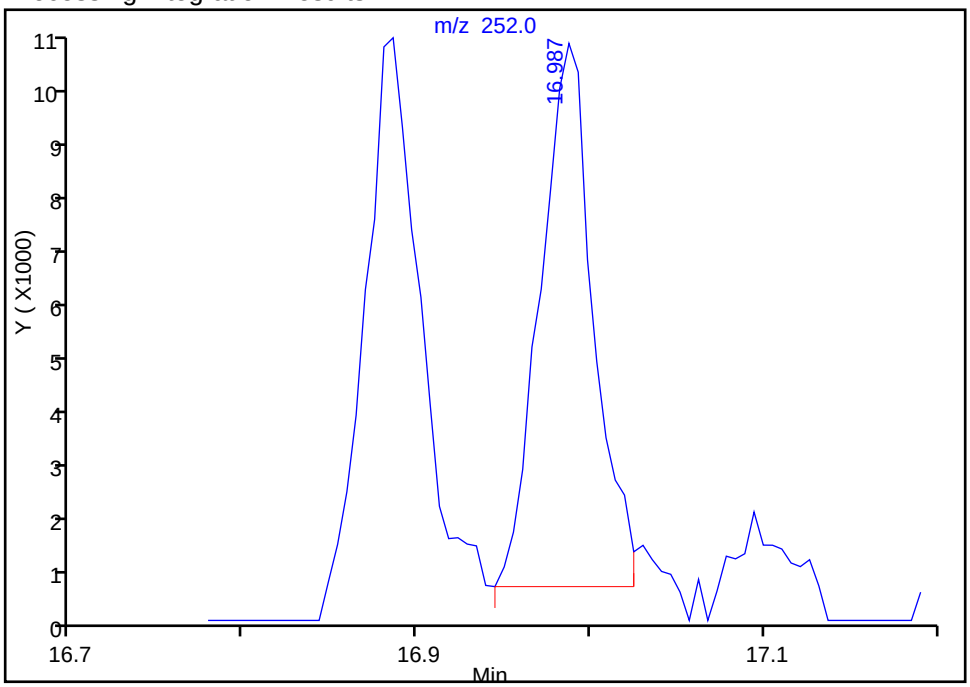
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	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		

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

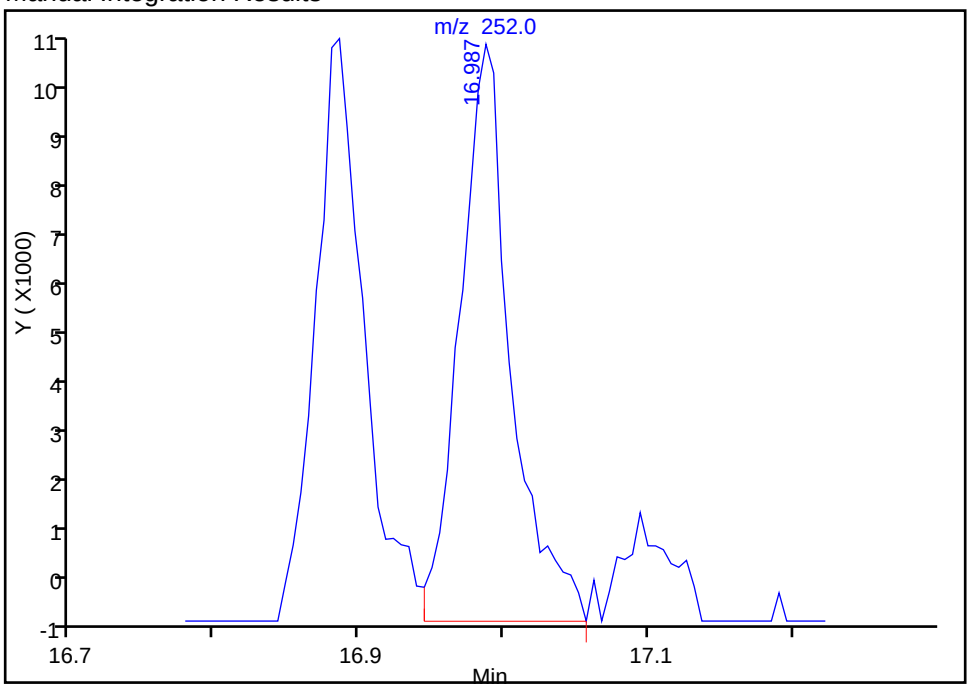
Processing Integration Results

RT: 16.99
Area: 21012
Amount: 0.312518
Amount Units: ng



Manual Integration Results

RT: 16.99
Area: 25684
Amount: 0.337338
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

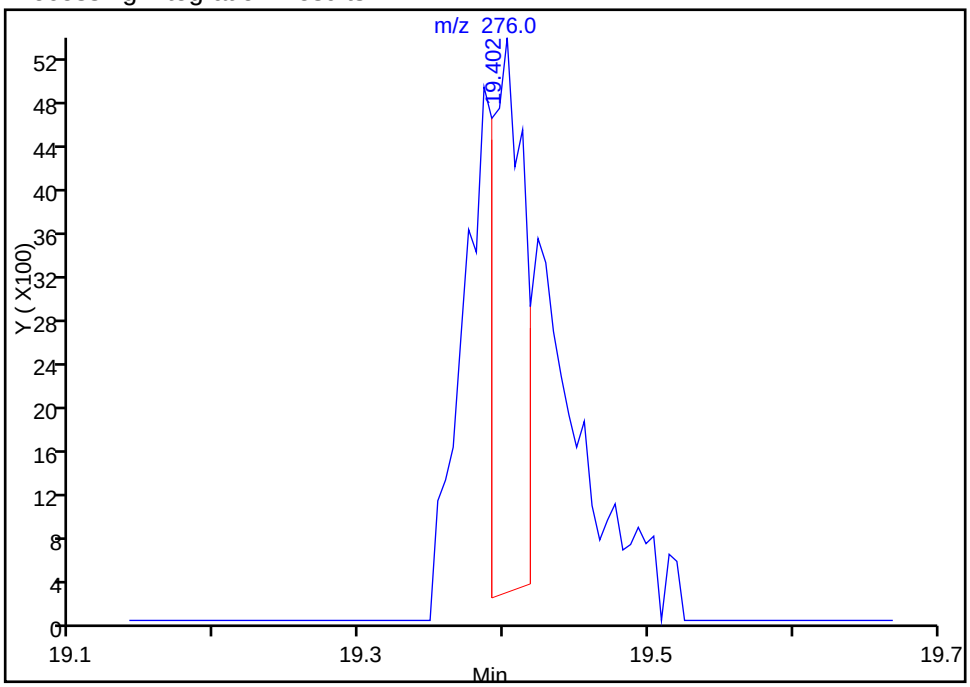
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	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

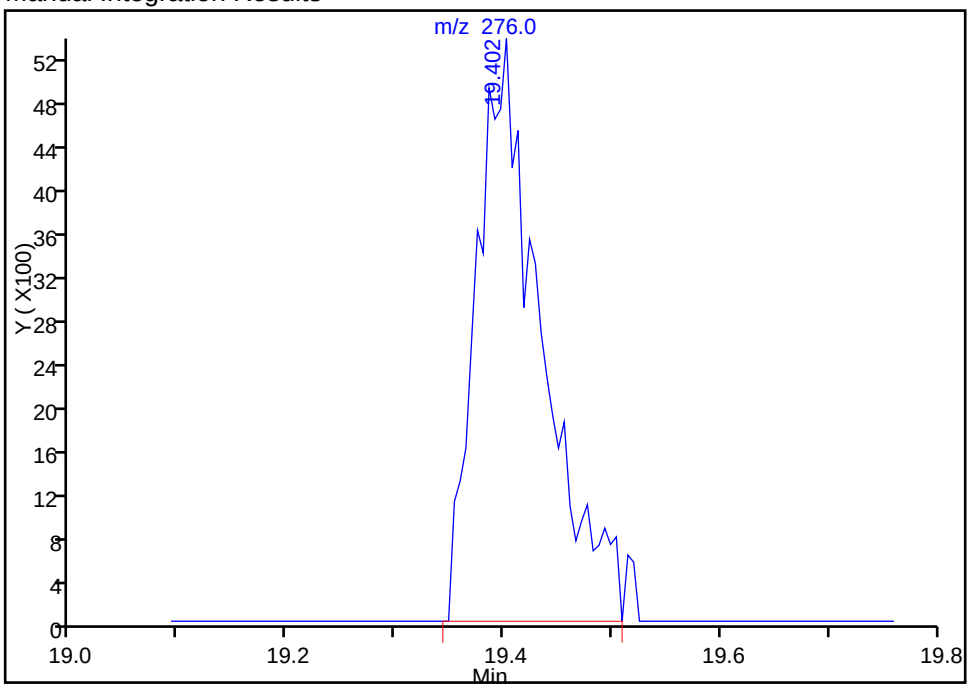
Processing Integration Results

RT: 19.40
Area: 7824
Amount: 0.134992
Amount Units: ng



Manual Integration Results

RT: 19.40
Area: 21988
Amount: 0.276912
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

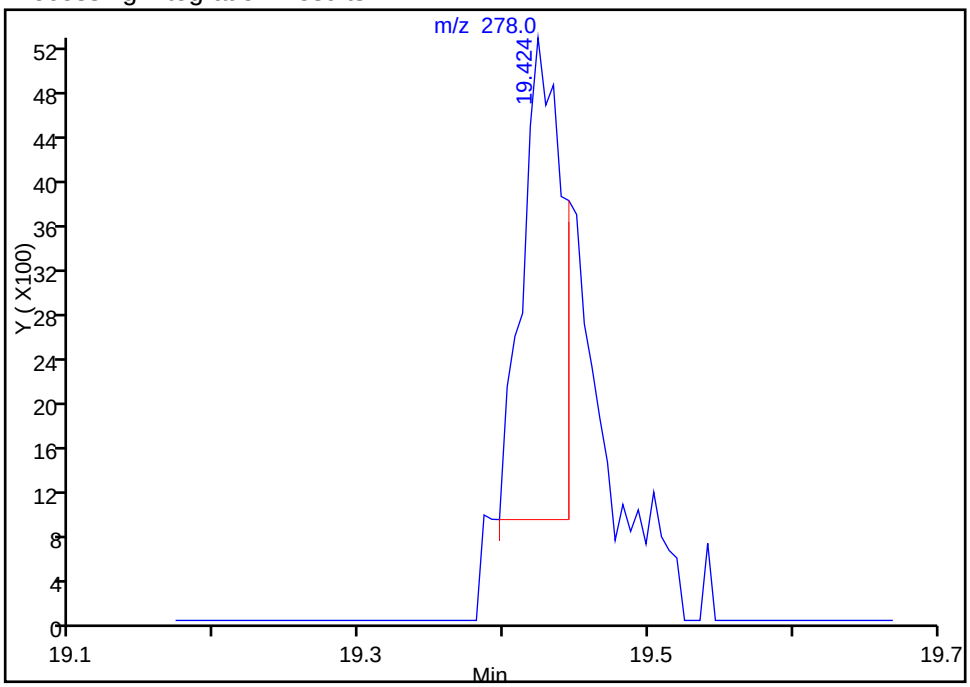
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	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

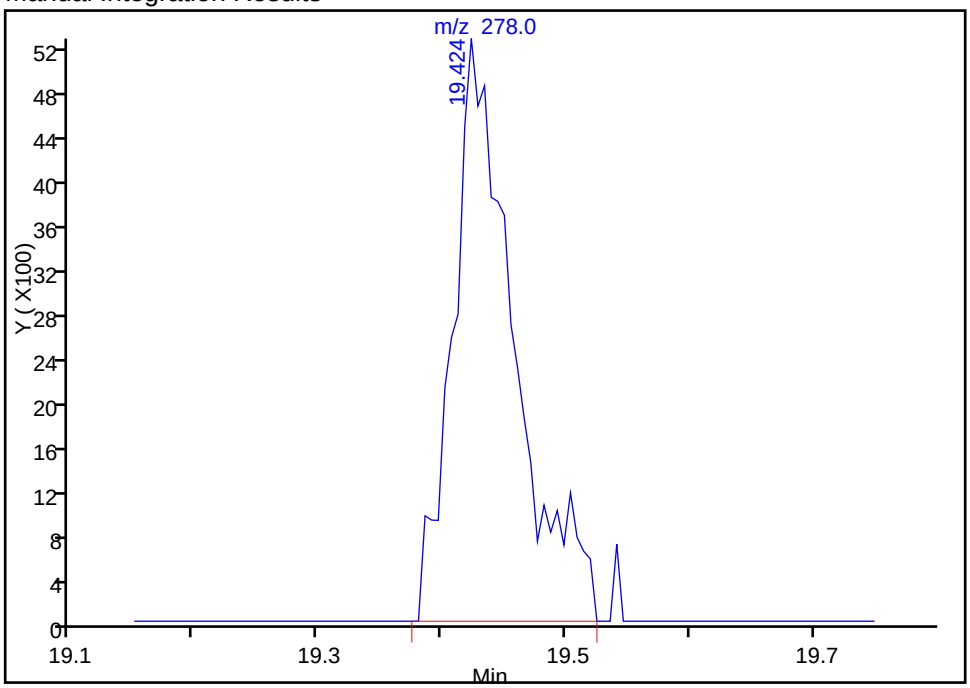
Processing Integration Results

RT: 19.42
Area: 8406
Amount: 0.178213
Amount Units: ng



Manual Integration Results

RT: 19.42
Area: 18145
Amount: 0.281910
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

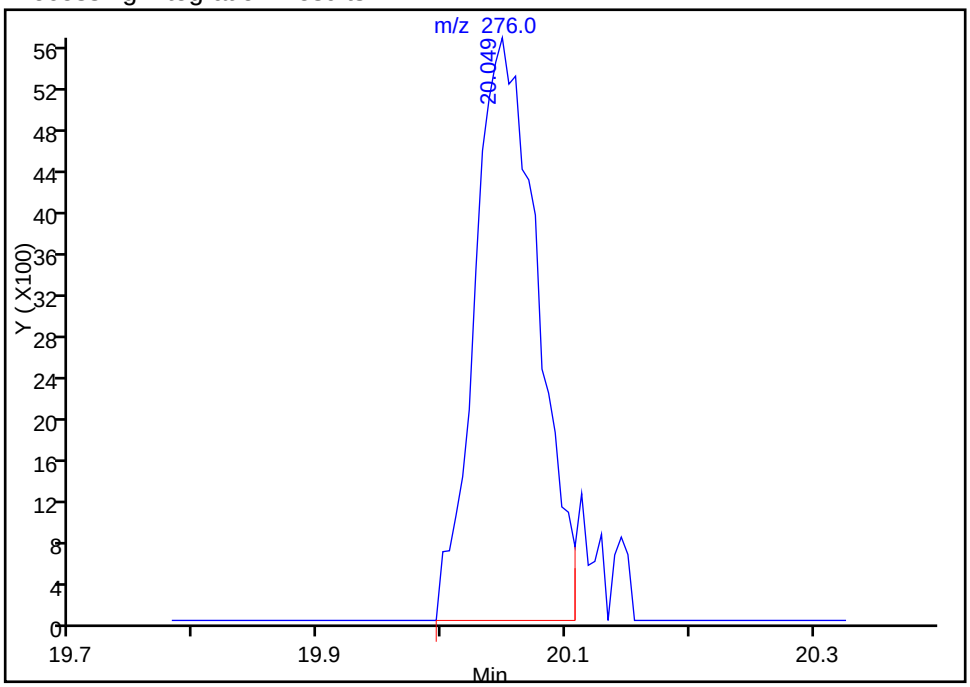
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	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

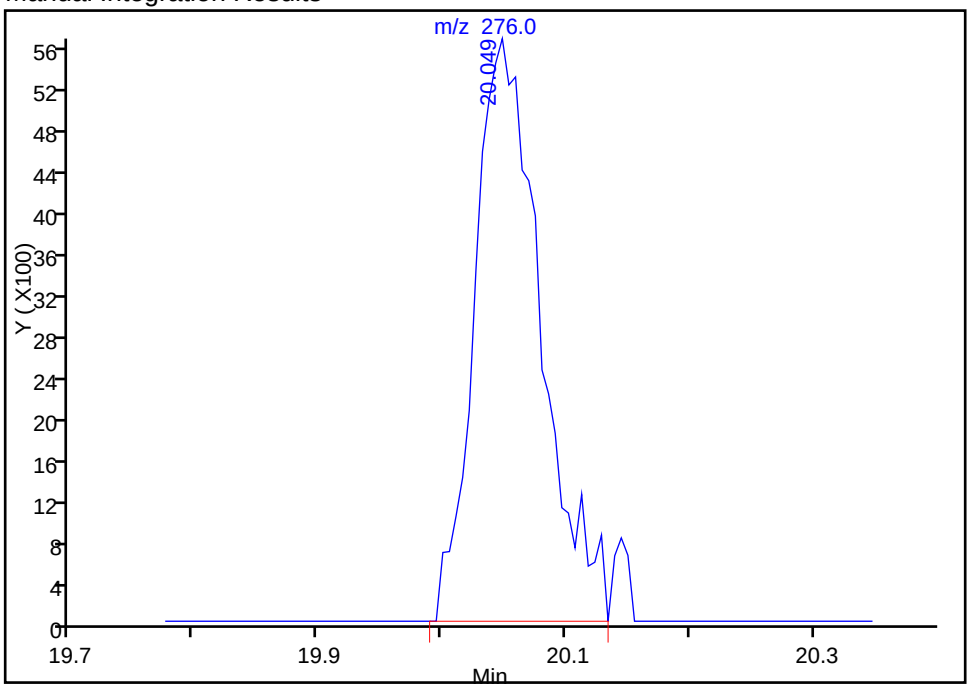
Processing Integration Results

RT: 20.05
Area: 19939
Amount: 0.336649
Amount Units: ng



Manual Integration Results

RT: 20.05
Area: 20951
Amount: 0.310396
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270004.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Aug-2015 05:51:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-004
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:15:04 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 07:33:50

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	6.132	6.132	0.000	97	115257	8.00	8.00	
* 2 Naphthalene-d8	136	7.419	7.414	0.005	99	455485	8.00	8.00	
* 3 Acenaphthene-d10	164	9.124	9.118	0.006	92	300311	8.00	8.00	
* 4 Phenanthrene-d10	188	10.561	10.550	0.011	98	545478	8.00	8.00	
* 5 Chrysene-d12	240	14.268	14.242	0.026	97	567269	8.00	8.00	
* 6 Perylene-d12	264	17.126	17.100	0.026	97	463863	8.00	8.00	
$ 7 2-Fluorophenol	112	4.663	4.674	-0.011	92	30197	2.00	1.88	
$ 8 Phenol-d5	99	5.753	5.753	0.000	96	42704	2.00	1.97	
$ 9 Nitrobenzene-d5	82	6.698	6.693	0.005	88	44602	2.00	1.96	
$ 10 2-Fluorobiphenyl	172	8.461	8.456	0.005	100	108540	2.00	1.95	
$ 11 2,4,6-Tribromophenol	330	9.882	9.872	0.010	85	8813	2.00	1.63	
$ 12 Terphenyl-d14	244	12.462	12.447	0.015	99	112562	2.00	1.91	
13 1,4-Dioxane	88	1.484	1.506	-0.022	51	15431	2.00	2.53	M
14 N-Nitrosodimethylamine	74	2.056	2.077	-0.021	90	13638	2.00	1.91	
15 Pyridine	79	2.136	2.179	-0.043	95	25782	2.00	1.88	
21 Methyl methanesulfonate	80	4.417	4.428	-0.011	89	18025	2.00	1.95	
25 Benzaldehyde	77	5.656	5.662	-0.006	94	23586	2.00	2.05	
26 Phenol	94	5.763	5.763	0.000	98	50708	2.00	2.02	
27 Aniline	93	5.779	5.785	-0.006	61	54991	2.00	1.96	
29 Bis(2-chloroethyl)ether	93	5.854	5.854	0.000	97	32933	2.00	1.99	
30 2-Chlorophenol	128	5.913	5.913	0.000	95	35436	2.00	1.87	
31 n-Decane	43	5.982	5.982	0.000	82	26372	2.00	1.98	
32 1,3-Dichlorobenzene	146	6.073	6.073	0.000	95	46532	2.00	1.91	
33 1,4-Dichlorobenzene	146	6.153	6.148	0.005	94	47433	2.00	1.89	
34 Benzyl alcohol	108	6.271	6.276	-0.005	89	21318	2.00	1.86	
35 1,2-Dichlorobenzene	146	6.308	6.308	0.000	94	47026	2.00	1.97	
36 2-Methylphenol	108	6.394	6.388	0.006	95	33286	2.00	1.90	
37 Indene	116	6.404	6.399	0.005	88	72008	2.00	1.99	
38 2,2'-oxybis[1-chloropropan	45	6.420	6.421	0.000	86	31543	2.00	1.97	
39 N-Nitrosopyrrolidine	100	6.506	6.506	0.000	93	15039	2.00	1.91	
40 Acetophenone	105	6.543	6.538	0.005	86	57807	2.00	2.01	

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	6.543	6.543	0.000	66	27492	2.00	2.01	
42 4-Methylphenol	108	6.549	6.543	0.006	90	37047	2.00	2.01	
45 Hexachloroethane	117	6.661	6.661	0.000	90	19815	2.00	1.96	
46 Nitrobenzene	77	6.714	6.714	0.000	86	45515	2.00	1.97	
48 Isophorone	82	6.955	6.949	0.006	99	68049	2.00	1.84	
49 2-Nitrophenol	139	7.040	7.035	0.005	97	17822	2.00	1.65	
50 2,4-Dimethylphenol	107	7.072	7.067	0.005	97	44452	2.00	1.95	
52 Benzoic acid	122	7.110	7.094	0.016	83	9442	2.00	4.41	
53 Bis(2-chloroethoxy)methane	93	7.163	7.158	0.005	98	45950	2.00	2.00	
54 2,4-Dichlorophenol	162	7.275	7.270	0.005	94	33619	2.00	1.81	
56 1,2,4-Trichlorobenzene	180	7.366	7.361	0.005	94	46669	2.00	1.95	
58 Naphthalene	128	7.441	7.436	0.005	98	130703	2.00	1.98	
59 4-Chloroaniline	127	7.484	7.478	0.006	95	49598	2.00	1.91	
60 2,6-Dichlorophenol	162	7.500	7.494	0.006	96	34843	2.00	1.89	
62 Hexachlorobutadiene	225	7.569	7.564	0.005	95	33197	2.00	1.93	
64 Caprolactam	113	7.783	7.777	0.006	85	6905	2.00	1.32	
67 4-Chloro-3-methylphenol	107	7.943	7.938	0.005	93	34951	2.00	1.77	
69 2-Methylnaphthalene	142	8.119	8.109	0.010	91	91938	2.00	1.90	
71 1-Methylnaphthalene	142	8.215	8.205	0.010	92	82207	2.00	1.96	
72 Hexachlorocyclopentadiene	237	8.274	8.269	0.005	96	32456	2.00	1.75	
73 1,2,4,5-Tetrachlorobenzene	216	8.280	8.274	0.006	97	52966	2.00	1.90	
74 2,4,6-Trichlorophenol	196	8.381	8.376	0.005	93	25464	2.00	1.75	
75 2,4,5-Trichlorophenol	196	8.418	8.408	0.010	94	27283	2.00	1.75	
76 1,1'-Biphenyl	154	8.563	8.552	0.011	95	116750	2.00	1.97	
77 2-Chloronaphthalene	162	8.589	8.579	0.010	97	88562	2.00	1.97	
79 2-Nitroaniline	65	8.670	8.659	0.011	78	21518	2.00	1.72	
82 Dimethyl phthalate	163	8.830	8.819	0.011	97	90214	2.00	1.83	
83 1,3-Dinitrobenzene	168	8.862	8.857	0.005	87	11660	2.00	1.53	
84 2,6-Dinitrotoluene	165	8.889	8.883	0.006	93	19994	2.00	1.82	
85 Acenaphthylene	152	8.990	8.985	0.005	99	134052	2.00	1.89	
86 3-Nitroaniline	138	9.059	9.049	0.010	91	17786	2.00	1.60	
88 Acenaphthene	153	9.156	9.150	0.006	94	95586	2.00	1.97	
87 2,4-Dinitrophenol	184	9.161	9.150	0.011	60	16271	4.00	5.39	
89 4-Nitrophenol	109	9.193	9.182	0.011	93	24800	4.00	3.11	
91 2,4-Dinitrotoluene	165	9.279	9.273	0.006	92	25934	2.00	1.67	
93 Dibenzofuran	168	9.321	9.311	0.010	96	135973	2.00	1.94	
95 2,3,5,6-Tetrachlorophenol	232	9.391	9.385	0.006	92	23553	2.00	1.57	
96 2,3,4,6-Tetrachlorophenol	232	9.433	9.423	0.010	72	27470	2.00	1.85	
97 2-Naphthylamine	143	9.460	9.455	0.005	95	78575	2.00	1.78	
98 Diethyl phthalate	149	9.498	9.487	0.011	97	94651	2.00	1.88	
99 Hexadecane	57	9.508	9.498	0.010	93	54531	2.00	2.06	
100 4-Chlorophenyl phenyl ethe	204	9.631	9.621	0.011	89	59739	2.00	1.97	
101 4-Nitroaniline	138	9.642	9.631	0.011	65	20389	2.00	1.66	
103 Fluorene	166	9.647	9.642	0.005	94	112380	2.00	1.96	
104 4,6-Dinitro-2-methylphenol	198	9.674	9.663	0.011	89	28568	4.00	2.93	
105 N-Nitrosodiphenylamine	169	9.738	9.733	0.005	62	158113	4.00	3.96	
90 1,2-Diphenylhydrazine	77	9.781	9.775	0.006	98	111645	2.00	2.06	
57 Azobenzene	77	9.781	9.775	0.006	98	111645	2.00	2.06	
110 4-Bromophenyl phenyl ether	248	10.101	10.091	0.010	67	30206	2.00	1.89	
112 Hexachlorobenzene	284	10.187	10.181	0.006	92	30125	2.00	1.97	
113 Atrazine	200	10.219	10.213	0.006	94	27333	2.00	1.76	
116 Pentachlorophenol	266	10.363	10.358	0.005	89	40150	4.00	3.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.379	10.368	0.011	95	53801	2.00	1.86	
121 Phenanthrene	178	10.587	10.577	0.010	98	165744	2.00	1.95	
122 Anthracene	178	10.641	10.630	0.011	98	158191	2.00	1.89	
124 Carbazole	167	10.785	10.774	0.011	96	134759	2.00	1.87	
126 Di-n-butyl phthalate	149	11.116	11.100	0.016	100	131834	2.00	1.64	
131 Fluoranthene	202	11.971	11.955	0.016	97	171635	2.00	1.85	
132 Benzidine	184	12.105	12.094	0.011	99	34263	2.00	3.06	
133 Pyrene	202	12.292	12.270	0.022	97	177971	2.00	1.93	
138 Butyl benzyl phthalate	149	13.200	13.178	0.022	96	45550	2.00	1.48	
144 3,3'-Dichlorobenzidine	252	14.172	14.151	0.021	74	34660	2.00	2.14	
145 Bis(2-ethylhexyl) phthalat	149	14.231	14.215	0.016	96	55029	2.00	2.09	
146 Benzo[a]anthracene	228	14.247	14.226	0.021	98	173982	2.00	1.89	
147 Chrysene	228	14.316	14.290	0.026	97	166184	2.00	1.94	
150 Di-n-octyl phthalate	149	15.524	15.497	0.027	100	85907	2.00	2.61	
151 7,12-Dimethylbenz(a)anthra	256	16.346	16.309	0.037	90	59662	2.00	1.71	
152 Benzo[b]fluoranthene	252	16.352	16.325	0.027	97	143186	2.00	1.78	
153 Benzo[k]fluoranthene	252	16.410	16.384	0.026	99	154273	2.00	1.91	
219 Benzo[e]pyrene	252	16.913	16.886	0.027	0	133409	2.00	1.81	
154 Benzo[a]pyrene	252	17.014	16.987	0.027	77	131081	2.00	1.75	
157 Indeno[1,2,3-cd]pyrene	276	19.434	19.402	0.032	97	129412	2.00	1.66	M
158 Dibenz(a,h)anthracene	278	19.461	19.424	0.037	90	103942	2.00	1.64	M
159 Benzo[g,h,i]perylene	276	20.086	20.049	0.037	98	108456	2.00	1.64	
S 197 Methyl Phenols,Total	108				0		4.00	3.91	
S 199 Total Cresols	108				0		4.00	3.91	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD2.0i_00007 Amount Added: 1.00 Units: mL

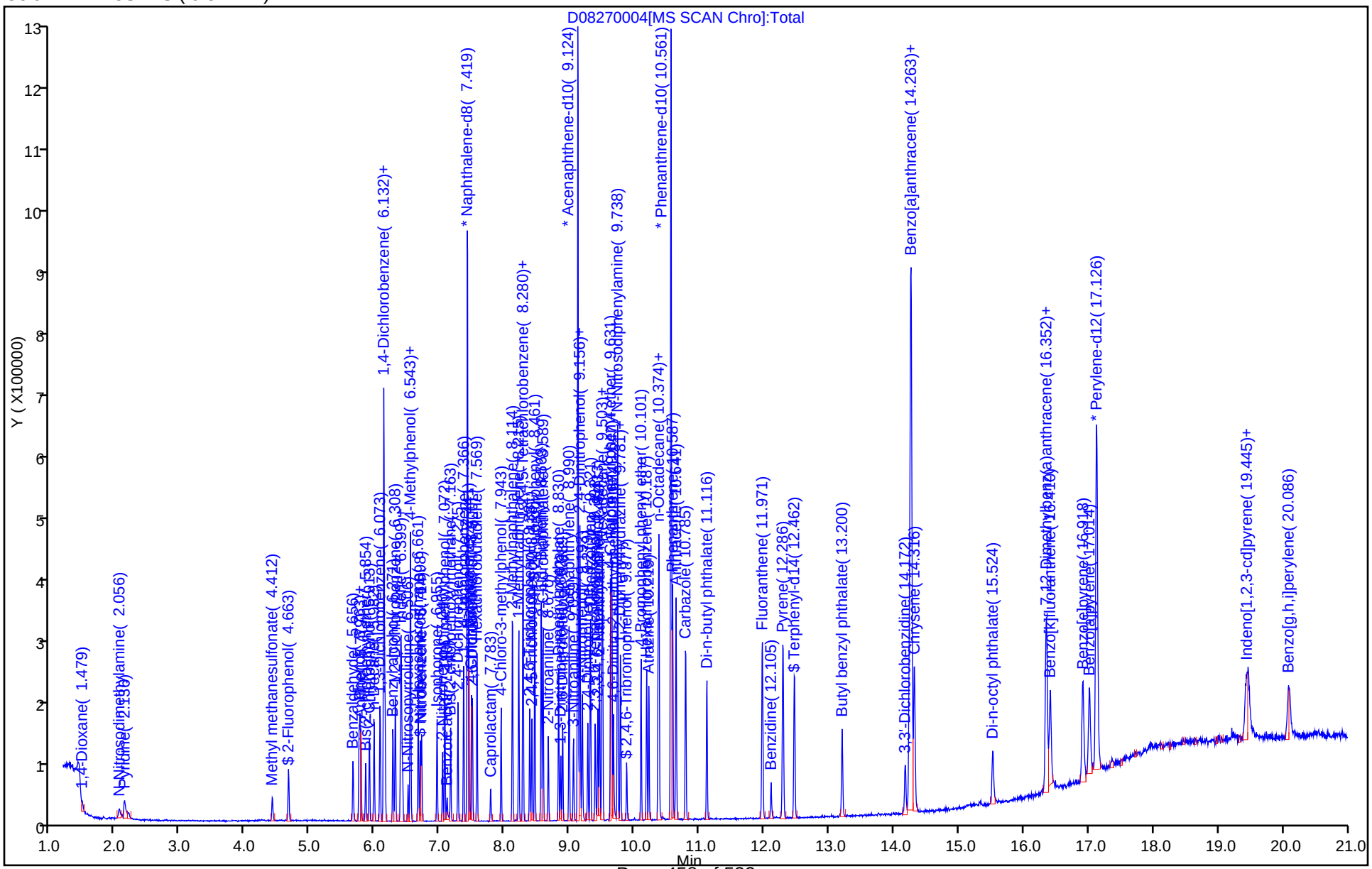
Report Date: 27-Aug-2015 10:15:05 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270004.D

Injection Date:	27-Aug-2015 05:51:30	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

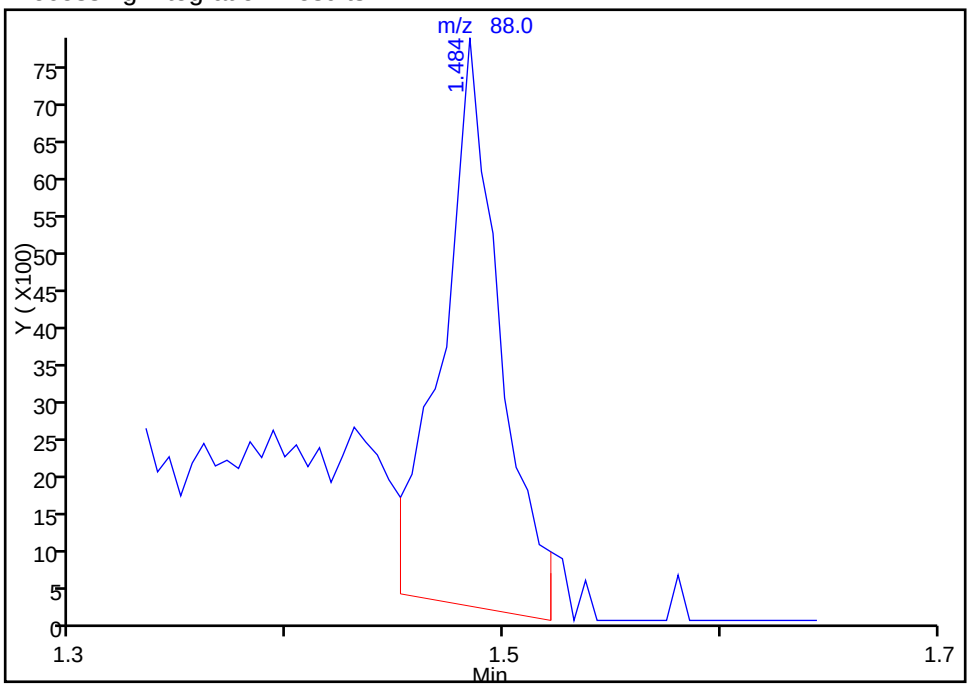
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270004.D
Injection Date: 27-Aug-2015 05:51:30 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

13 1,4-Dioxane, CAS: 123-91-1

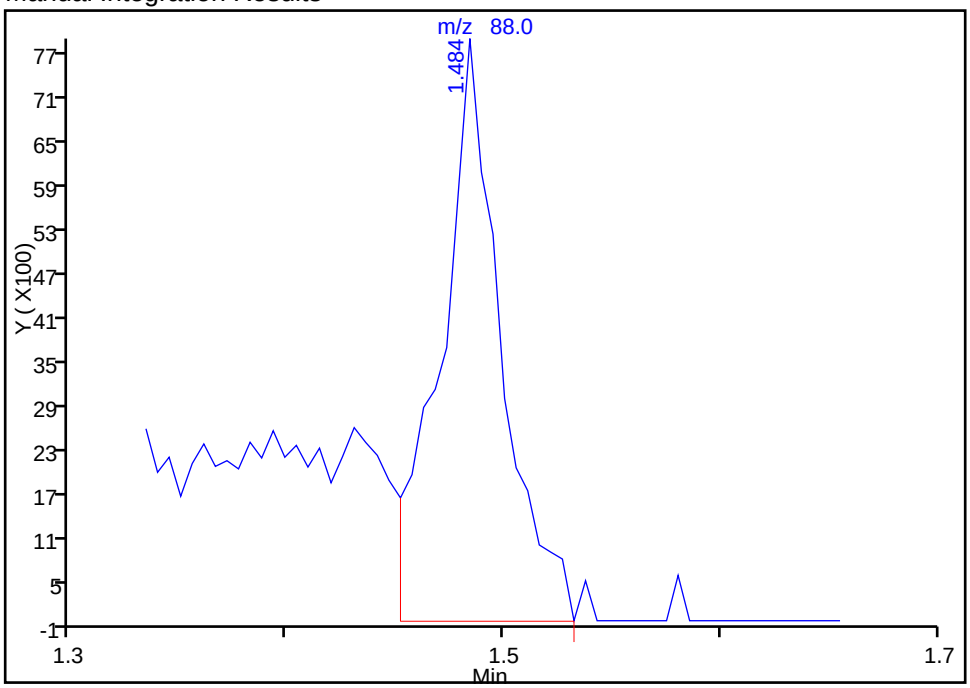
Processing Integration Results

RT: 1.48
Area: 14320
Amount: 1.943047
Amount Units: ng



Manual Integration Results

RT: 1.48
Area: 15431
Amount: 2.534154
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:33:50
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

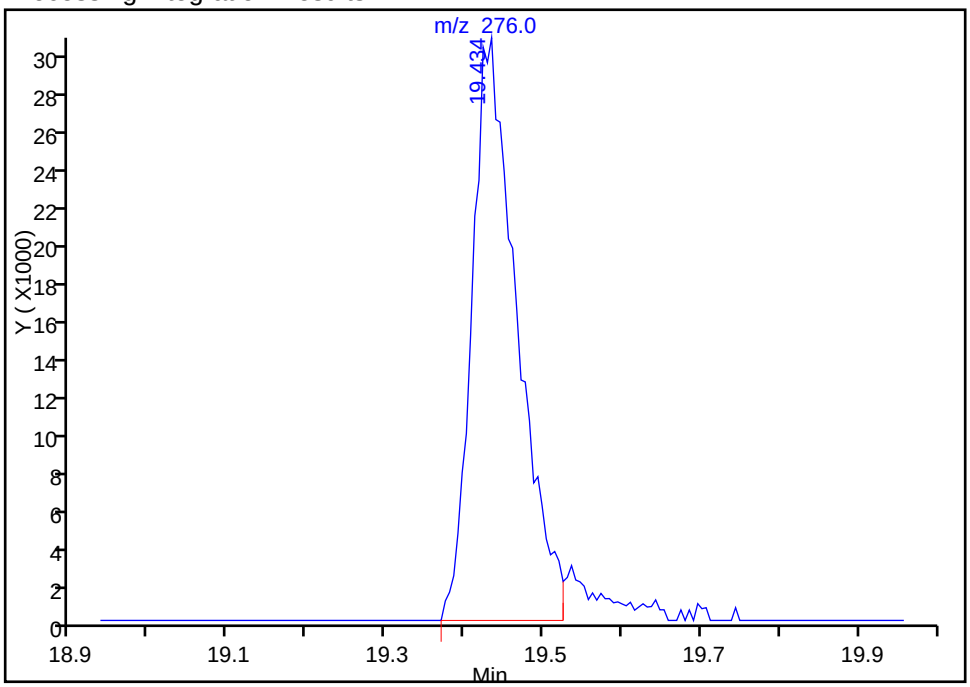
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270004.D
Injection Date: 27-Aug-2015 05:51:30 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

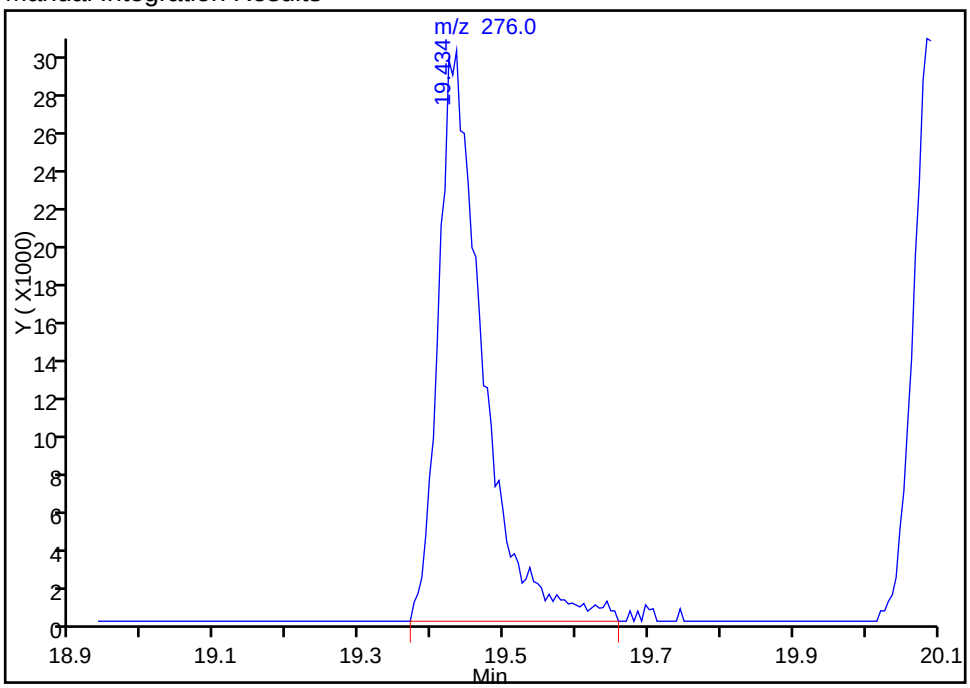
Processing Integration Results

RT: 19.43
Area: 120375
Amount: 1.570718
Amount Units: ng



Manual Integration Results

RT: 19.43
Area: 129412
Amount: 1.659153
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:21:08
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

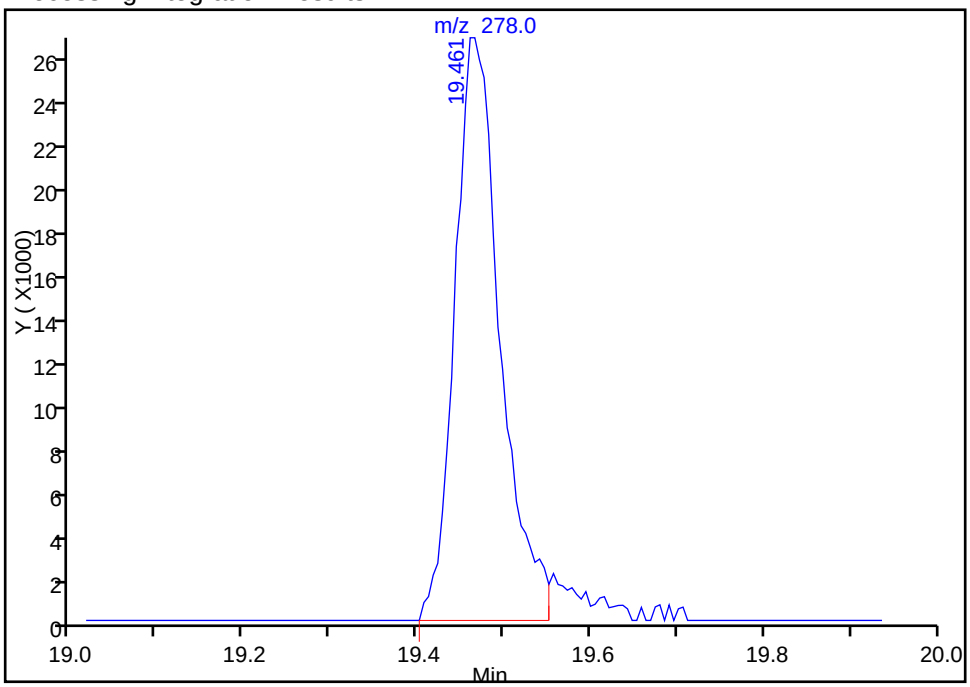
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270004.D				
Injection Date:	27-Aug-2015 05:51:30	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

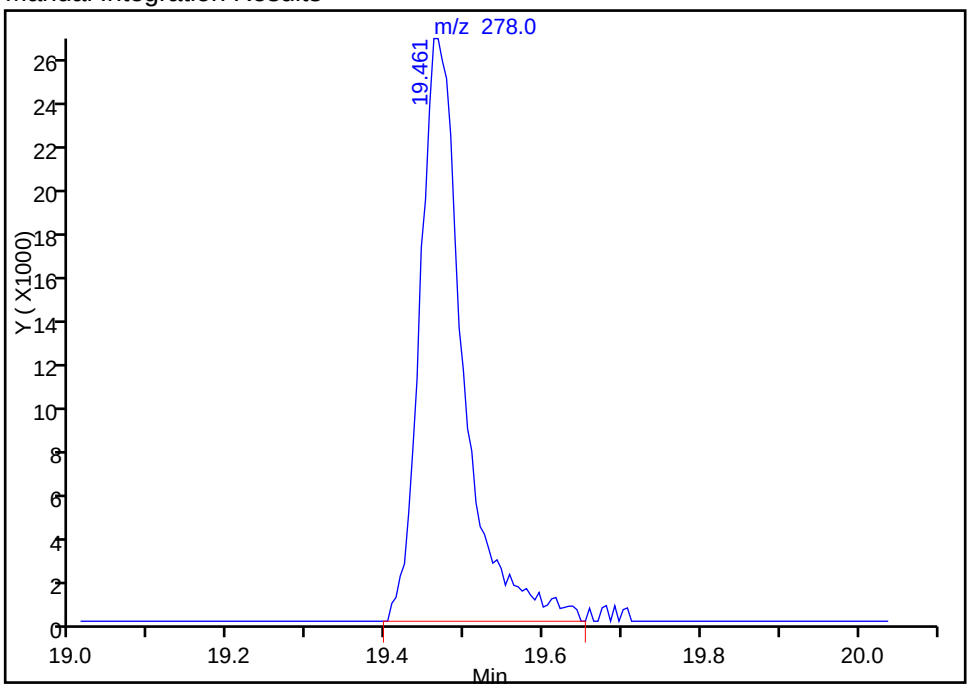
Processing Integration Results

RT: 19.46
Area: 97999
Amount: 1.587820
Amount Units: ng



Manual Integration Results

RT: 19.46
Area: 103942
Amount: 1.643993
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:21:08
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Aug-2015 06:18:30 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-005
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:15:27 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 07:36:04

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	6.132	6.132	0.000	96	108086	8.00	8.00	
* 2 Naphthalene-d8	136	7.425	7.414	0.011	99	430106	8.00	8.00	
* 3 Acenaphthene-d10	164	9.129	9.118	0.011	91	292974	8.00	8.00	
* 4 Phenanthrene-d10	188	10.566	10.550	0.016	98	537940	8.00	8.00	
* 5 Chrysene-d12	240	14.273	14.242	0.031	97	565315	8.00	8.00	
* 6 Perylene-d12	264	17.132	17.100	0.032	97	447206	8.00	8.00	
$ 7 2-Fluorophenol	112	4.657	4.674	-0.017	91	58564	4.00	3.89	
$ 8 Phenol-d5	99	5.747	5.753	-0.006	97	81423	4.00	4.00	
$ 9 Nitrobenzene-d5	82	6.693	6.693	0.000	88	86267	4.00	4.02	
$ 10 2-Fluorobiphenyl	172	8.461	8.456	0.005	100	217243	4.00	3.99	
$ 11 2,4,6-Tribromophenol	330	9.882	9.872	0.010	85	19631	4.00	3.67	
$ 12 Terphenyl-d14	244	12.473	12.447	0.026	100	235803	4.00	4.01	
13 1,4-Dioxane	88	1.468	1.506	-0.038	77	24572	4.00	4.30	
14 N-Nitrosodimethylamine	74	2.034	2.077	-0.043	93	26742	4.00	4.00	
15 Pyridine	79	2.114	2.179	-0.065	95	52336	4.00	4.08	
21 Methyl methanesulfonate	80	4.406	4.428	-0.022	87	36140	4.00	4.17	
25 Benzaldehyde	77	5.656	5.662	-0.006	97	43258	4.00	4.01	
26 Phenol	94	5.763	5.763	0.000	97	98155	4.00	4.17	
27 Aniline	93	5.774	5.785	-0.011	97	106482	4.00	4.05	
29 Bis(2-chloroethyl)ether	93	5.849	5.854	-0.005	98	64920	4.00	4.19	
30 2-Chlorophenol	128	5.907	5.913	-0.006	94	71869	4.00	4.04	
31 n-Decane	43	5.982	5.982	0.000	83	51638	4.00	4.13	
32 1,3-Dichlorobenzene	146	6.073	6.073	0.000	96	92558	4.00	4.06	
33 1,4-Dichlorobenzene	146	6.148	6.148	0.000	92	93939	4.00	4.00	
34 Benzyl alcohol	108	6.271	6.276	-0.005	88	41585	4.00	3.87	
35 1,2-Dichlorobenzene	146	6.308	6.308	0.000	94	89299	4.00	4.00	
36 2-Methylphenol	108	6.388	6.388	0.000	95	68323	4.00	4.16	
37 Indene	116	6.399	6.399	0.000	87	137252	4.00	4.05	
38 2,2'-oxybis[1-chloropropan	45	6.415	6.421	-0.005	85	63478	4.00	4.22	
39 N-Nitrosopyrrolidine	100	6.506	6.506	0.000	94	30847	4.00	4.17	
40 Acetophenone	105	6.538	6.538	0.000	93	110214	4.00	4.08	

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	6.543	6.543	0.000	75	54878	4.00	4.28	
42 4-Methylphenol	108	6.543	6.543	0.000	94	71719	4.00	4.15	
45 Hexachloroethane	117	6.661	6.661	0.000	90	38887	4.00	4.10	
46 Nitrobenzene	77	6.714	6.714	0.000	85	90685	4.00	4.16	
48 Isophorone	82	6.955	6.949	0.006	99	138987	4.00	3.97	
49 2-Nitrophenol	139	7.040	7.035	0.005	98	37572	4.00	3.69	
50 2,4-Dimethylphenol	107	7.072	7.067	0.005	98	87710	4.00	4.07	
52 Benzoic acid	122	7.109	7.094	0.015	86	16099	4.00	5.03	M
53 Bis(2-chloroethoxy)methane	93	7.163	7.158	0.005	99	88155	4.00	4.06	
54 2,4-Dichlorophenol	162	7.275	7.270	0.005	94	69233	4.00	3.95	
56 1,2,4-Trichlorobenzene	180	7.366	7.361	0.005	94	90400	4.00	4.00	
58 Naphthalene	128	7.446	7.436	0.010	97	247627	4.00	3.97	
59 4-Chloroaniline	127	7.483	7.478	0.005	95	98112	4.00	4.01	
60 2,6-Dichlorophenol	162	7.499	7.494	0.005	97	69892	4.00	4.01	
62 Hexachlorobutadiene	225	7.569	7.564	0.005	94	65336	4.00	4.03	
64 Caprolactam	113	7.783	7.777	0.006	84	16267	4.00	3.30	
67 4-Chloro-3-methylphenol	107	7.943	7.938	0.005	94	74708	4.00	4.00	
69 2-Methylnaphthalene	142	8.119	8.109	0.010	90	182259	4.00	4.00	
71 1-Methylnaphthalene	142	8.215	8.205	0.010	92	163575	4.00	4.12	
72 Hexachlorocyclopentadiene	237	8.279	8.269	0.010	96	66585	4.00	3.67	
73 1,2,4,5-Tetrachlorobenzene	216	8.285	8.274	0.011	97	108929	4.00	4.01	
74 2,4,6-Trichlorophenol	196	8.386	8.376	0.010	93	53356	4.00	3.76	
75 2,4,5-Trichlorophenol	196	8.418	8.408	0.010	94	59444	4.00	3.92	
76 1,1'-Biphenyl	154	8.563	8.552	0.011	96	230833	4.00	3.98	
77 2-Chloronaphthalene	162	8.589	8.579	0.010	97	175008	4.00	3.99	
79 2-Nitroaniline	65	8.669	8.659	0.010	78	47126	4.00	3.86	
82 Dimethyl phthalate	163	8.830	8.819	0.011	98	184594	4.00	3.84	
83 1,3-Dinitrobenzene	168	8.862	8.857	0.005	86	26008	4.00	3.50	
84 2,6-Dinitrotoluene	165	8.894	8.883	0.011	94	42233	4.00	3.93	
85 Acenaphthylene	152	8.995	8.985	0.010	98	271577	4.00	3.92	
86 3-Nitroaniline	138	9.059	9.049	0.010	91	38185	4.00	3.53	
87 2,4-Dinitrophenol	184	9.161	9.150	0.011	61	32665	8.00	7.27	
88 Acenaphthene	153	9.161	9.150	0.011	93	187752	4.00	3.97	
89 4-Nitrophenol	109	9.198	9.182	0.016	92	55083	8.00	7.08	
91 2,4-Dinitrotoluene	165	9.284	9.273	0.011	92	55424	4.00	3.66	
93 Dibenzofuran	168	9.321	9.311	0.010	96	270577	4.00	3.97	
95 2,3,5,6-Tetrachlorophenol	232	9.396	9.385	0.011	93	50909	4.00	3.48	
96 2,3,4,6-Tetrachlorophenol	232	9.433	9.423	0.010	72	56915	4.00	3.92	
97 2-Naphthylamine	143	9.465	9.455	0.010	95	165058	4.00	3.83	
98 Diethyl phthalate	149	9.497	9.487	0.010	97	188374	4.00	3.84	
99 Hexadecane	57	9.508	9.498	0.010	93	106626	4.00	4.26	
100 4-Chlorophenyl phenyl ethe	204	9.631	9.621	0.011	93	116990	4.00	3.95	
101 4-Nitroaniline	138	9.642	9.631	0.011	86	42946	4.00	3.59	
103 Fluorene	166	9.652	9.642	0.010	93	218910	4.00	3.92	
104 4,6-Dinitro-2-methylphenol	198	9.674	9.663	0.011	91	57853	8.00	6.01	
105 N-Nitrosodiphenylamine	169	9.743	9.733	0.010	62	314082	8.00	7.97	
90 1,2-Diphenylhydrazine	77	9.786	9.775	0.011	98	222649	4.00	4.17	
57 Azobenzene	77	9.786	9.775	0.011	98	222649	4.00	4.17	
110 4-Bromophenyl phenyl ether	248	10.106	10.091	0.015	66	64176	4.00	4.07	
112 Hexachlorobenzene	284	10.192	10.181	0.011	92	62558	4.00	4.16	
113 Atrazine	200	10.224	10.213	0.011	95	58399	4.00	3.82	
116 Pentachlorophenol	266	10.368	10.358	0.010	91	60561	8.00	5.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.379	10.368	0.011	96	115405	4.00	4.26	
121 Phenanthrene	178	10.593	10.577	0.016	98	335765	4.00	4.00	
122 Anthracene	178	10.641	10.630	0.011	98	326517	4.00	3.96	
124 Carbazole	167	10.790	10.774	0.016	96	281716	4.00	3.96	
126 Di-n-butyl phthalate	149	11.122	11.100	0.022	100	284636	4.00	3.59	
131 Fluoranthene	202	11.976	11.955	0.021	97	362057	4.00	3.95	
132 Benzidine	184	12.115	12.094	0.021	99	80226	4.00	4.17	
133 Pyrene	202	12.297	12.270	0.027	97	370018	4.00	4.03	
138 Butyl benzyl phthalate	149	13.205	13.178	0.027	97	101775	4.00	3.31	
144 3,3'-Dichlorobenzidine	252	14.183	14.151	0.032	75	79033	4.00	3.59	M
145 Bis(2-ethylhexyl) phthalat	149	14.241	14.215	0.026	97	133741	4.00	3.70	
146 Benzo[a]anthracene	228	14.252	14.226	0.026	98	354775	4.00	3.87	
147 Chrysene	228	14.322	14.290	0.032	97	338591	4.00	3.96	
150 Di-n-octyl phthalate	149	15.529	15.497	0.032	99	157819	4.00	3.58	
151 7,12-Dimethylbenz(a)anthra	256	16.352	16.309	0.043	91	127378	4.00	3.79	
152 Benzo[b]fluoranthene	252	16.362	16.325	0.037	97	305692	4.00	3.93	
153 Benzo[k]fluoranthene	252	16.421	16.384	0.037	97	303823	4.00	3.90	
219 Benzo[e]pyrene	252	16.923	16.886	0.037	0	280062	4.00	3.94	
154 Benzo[a]pyrene	252	17.019	16.987	0.032	77	275698	4.00	3.82	
157 Indeno[1,2,3-cd]pyrene	276	19.445	19.402	0.043	99	290237	4.00	3.86	M
158 Dibenz(a,h)anthracene	278	19.477	19.424	0.053	91	233595	4.00	3.83	M
159 Benzo[g,h,i]perylene	276	20.096	20.049	0.047	97	242670	4.00	3.80	
S 197 Methyl Phenols,Total	108				0		8.00	8.31	
S 199 Total Cresols	108				0		8.00	8.31	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD4.0i_00008 Amount Added: 1.00 Units: mL

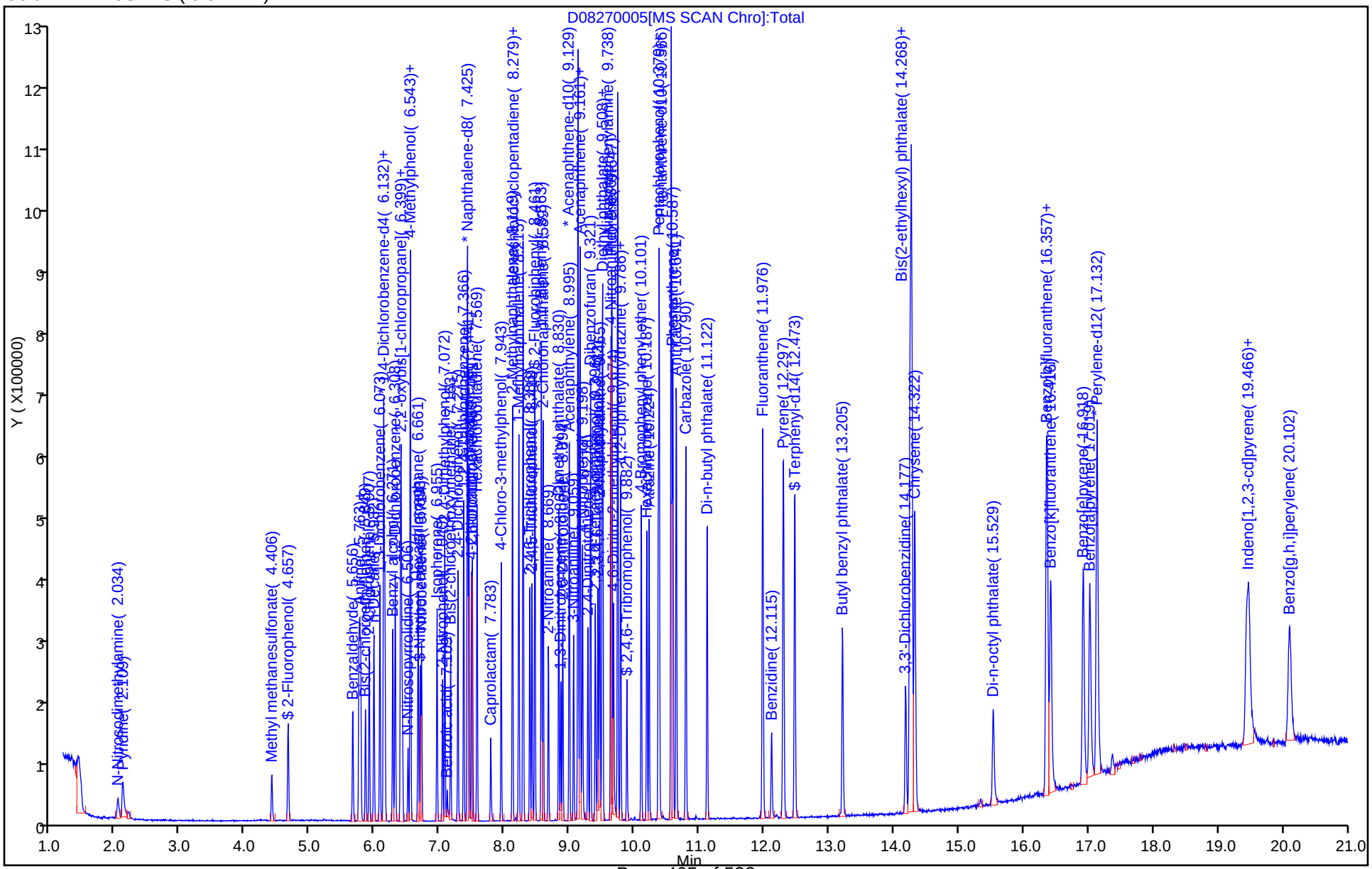
Report Date: 27-Aug-2015 10:15:29 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D

Injection Date:	27-Aug-2015 06:18:30	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)



Manual Integration/User Assign Peak Report

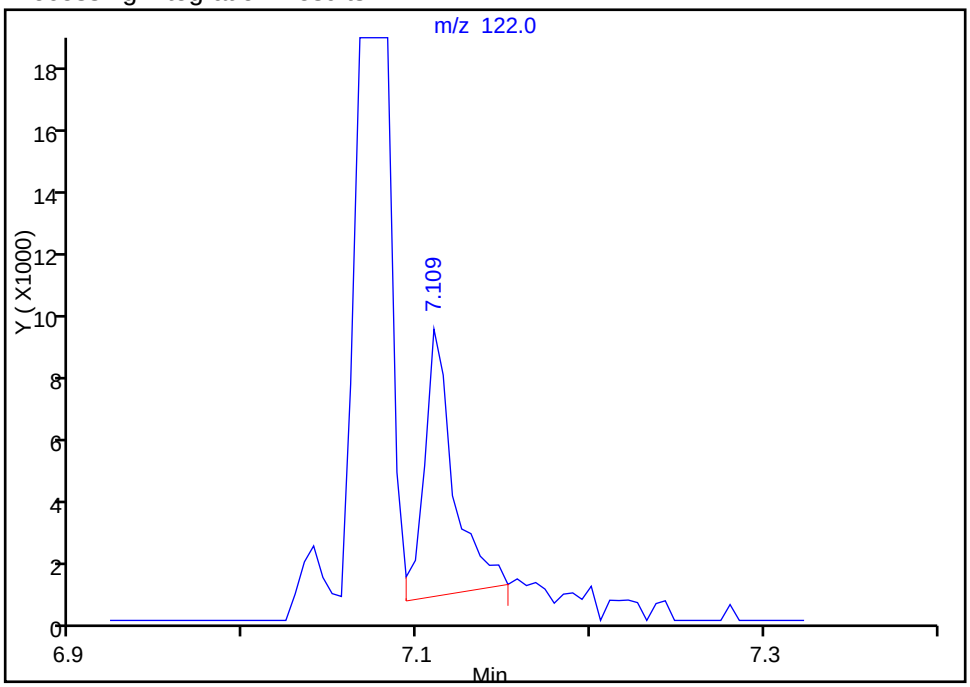
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D
Injection Date: 27-Aug-2015 06:18:30 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

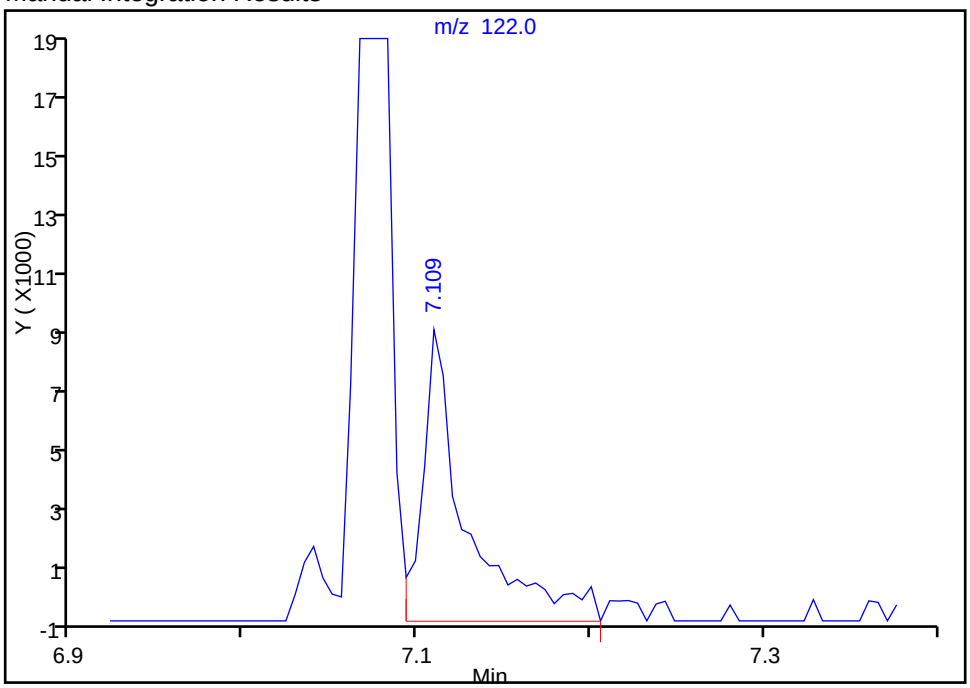
Processing Integration Results

RT: 7.11
Area: 9895
Amount: 2.305106
Amount Units: ng



Manual Integration Results

RT: 7.11
Area: 16099
Amount: 5.033028
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:36:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

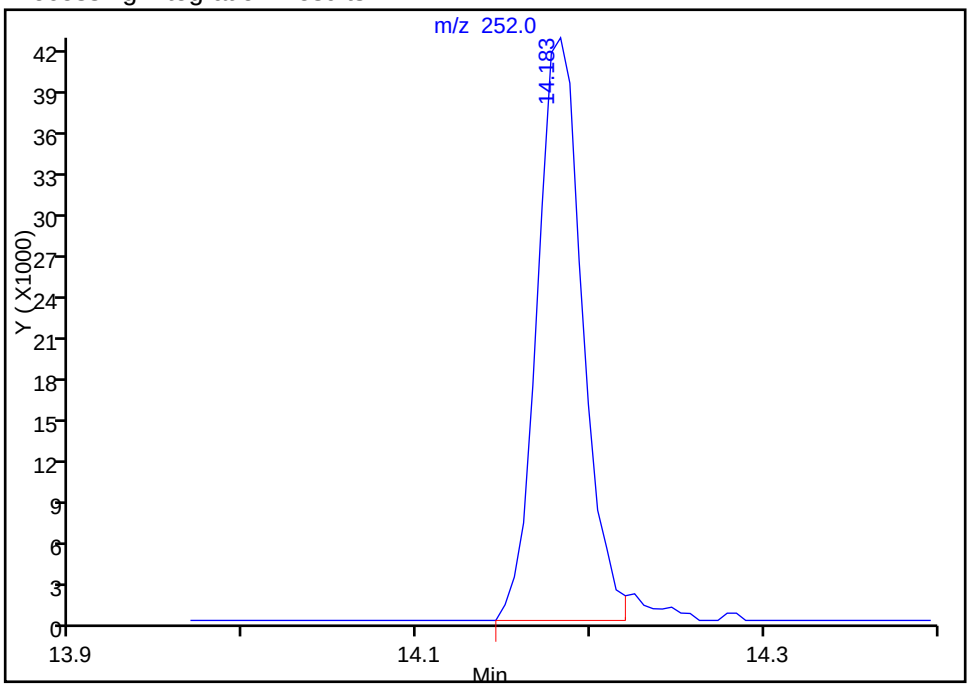
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D				
Injection Date:	27-Aug-2015 06:18:30	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		

144 3,3'-Dichlorobenzidine, CAS: 91-94-1

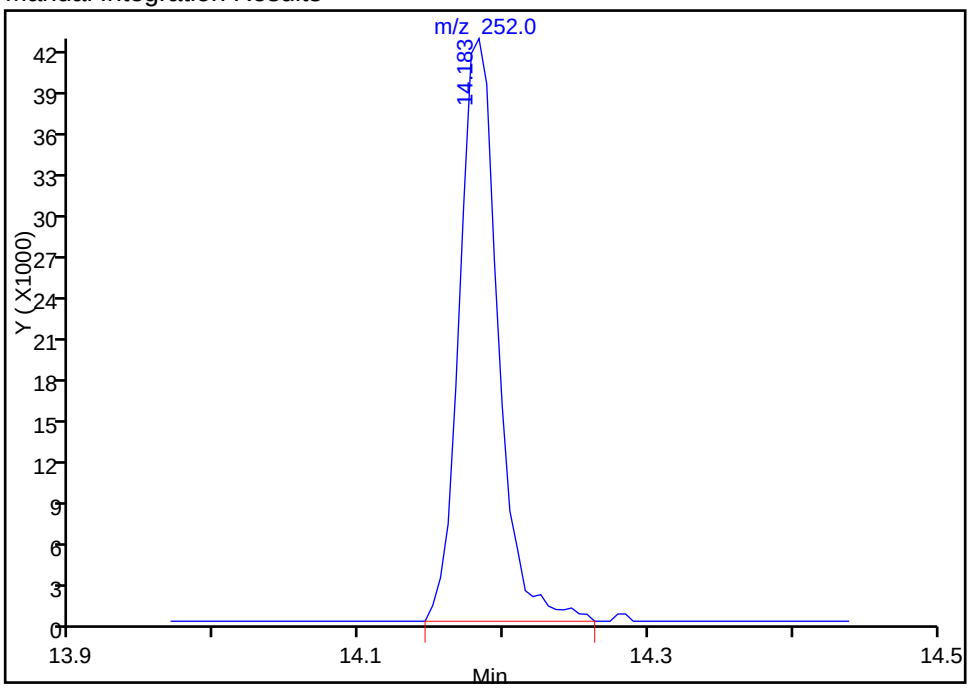
Processing Integration Results

RT: 14.18
Area: 76884
Amount: 3.808274
Amount Units: ng



Manual Integration Results

RT: 14.18
Area: 79033
Amount: 3.589627
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:36:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

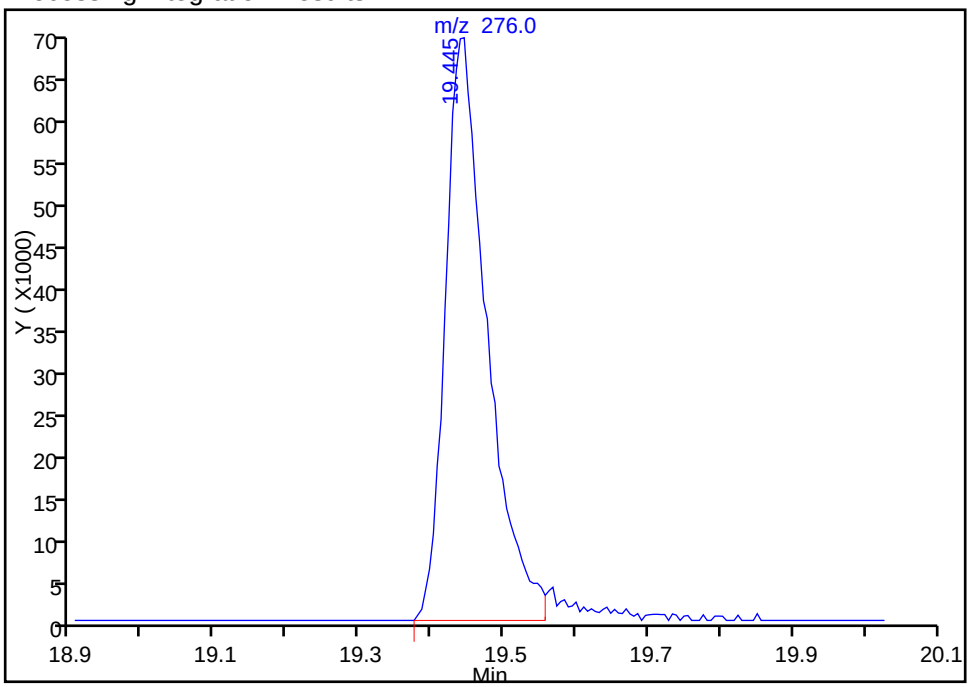
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D				
Injection Date:	27-Aug-2015 06:18:30	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		

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

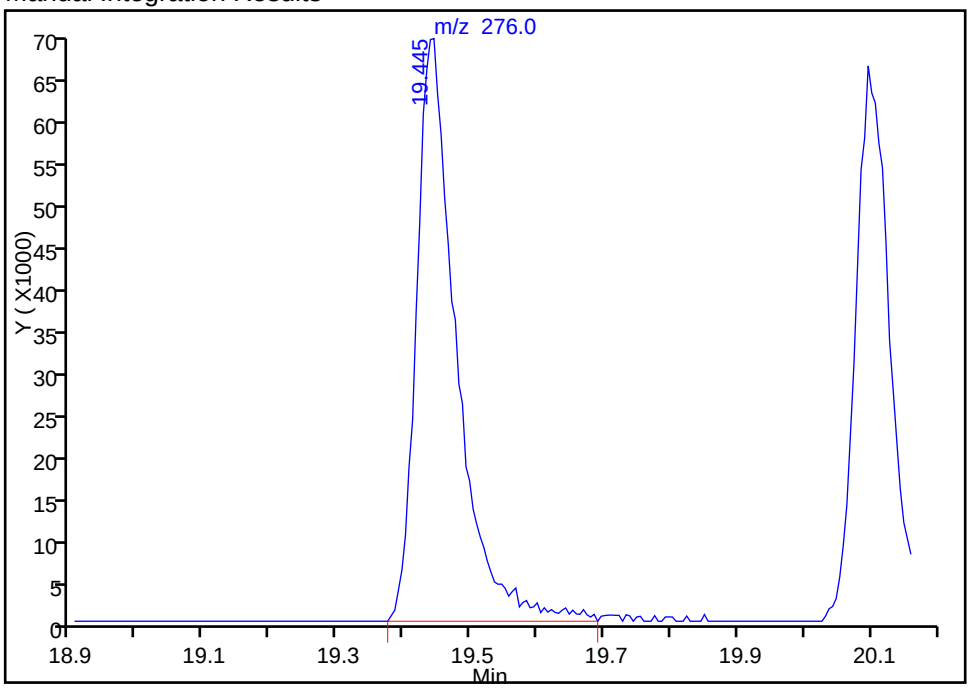
Processing Integration Results

RT: 19.44
Area: 278487
Amount: 3.647031
Amount Units: ng



Manual Integration Results

RT: 19.44
Area: 290237
Amount: 3.859640
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:22:16
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

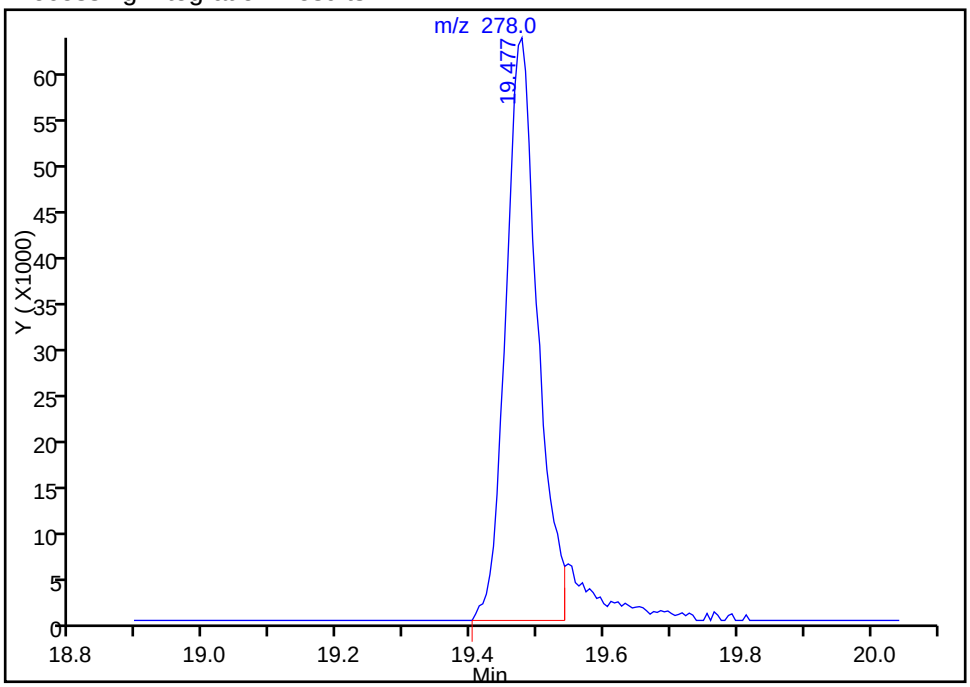
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D				
Injection Date:	27-Aug-2015 06:18:30	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

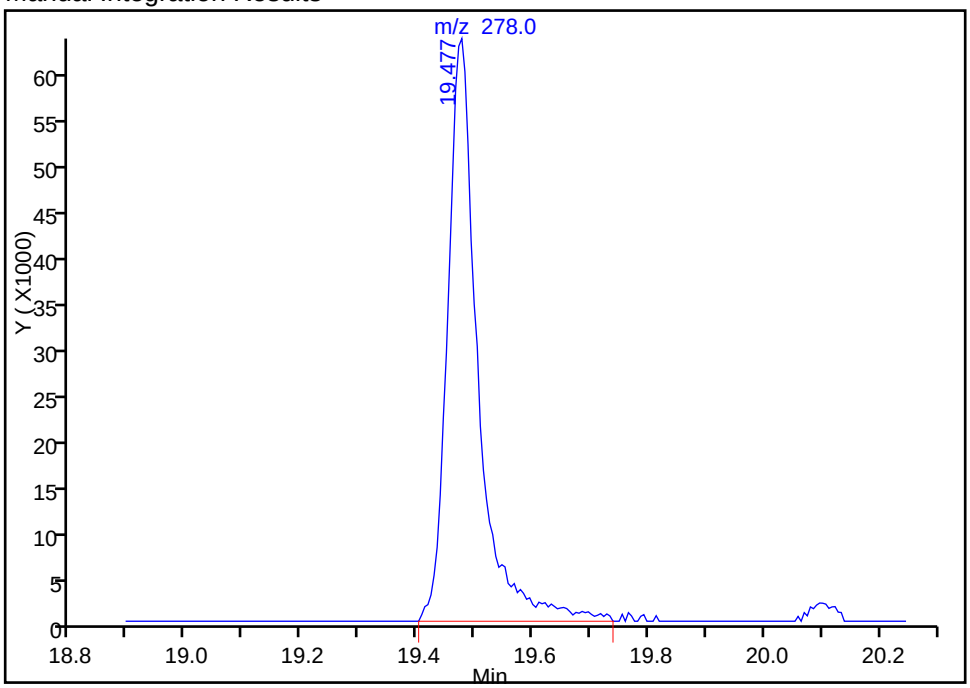
Processing Integration Results

RT: 19.48
Area: 211171
Amount: 3.527689
Amount Units: ng



Manual Integration Results

RT: 19.48
Area: 233595
Amount: 3.832255
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:22:16
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270006.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 27-Aug-2015 06:44:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-006
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:15:45 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 07:37:31

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	6.132	6.132	0.000	95	104386	8.00	8.00	
* 2 Naphthalene-d8	136	7.425	7.425	0.000	99	419355	8.00	8.00	
* 3 Acenaphthene-d10	164	9.129	9.129	0.000	93	271655	8.00	8.00	
* 4 Phenanthrene-d10	188	10.571	10.571	0.000	97	523880	8.00	8.00	
* 5 Chrysene-d12	240	14.279	14.279	0.000	97	562093	8.00	8.00	
* 6 Perylene-d12	264	17.137	17.137	0.000	96	456878	8.00	8.00	
$ 7 2-Fluorophenol	112	4.658	4.658	0.000	91	149333	10.0	10.3	
$ 8 Phenol-d5	99	5.747	5.747	0.000	96	203640	10.0	10.3	
$ 9 Nitrobenzene-d5	82	6.698	6.698	0.000	87	217414	10.0	10.4	
$ 10 2-Fluorobiphenyl	172	8.467	8.467	0.000	100	510190	10.0	10.1	
$ 11 2,4,6-Tribromophenol	330	9.888	9.888	0.000	86	50044	10.0	9.62	
$ 12 Terphenyl-d14	244	12.473	12.473	0.000	99	595319	10.0	10.2	
13 1,4-Dioxane	88	1.468	1.468	0.000	87	53629	10.0	9.72	
14 N-Nitrosodimethylamine	74	2.029	2.029	0.000	92	65121	10.0	10.1	
15 Pyridine	79	2.099	2.099	0.000	95	127655	10.0	10.3	
21 Methyl methanesulfonate	80	4.401	4.401	0.000	88	86244	10.0	10.3	
25 Benzaldehyde	77	5.656	5.656	0.000	97	103678	10.0	9.94	
26 Phenol	94	5.763	5.763	0.000	97	234477	10.0	10.3	
27 Aniline	93	5.779	5.779	0.000	56	258794	10.0	10.2	
29 Bis(2-chloroethyl)ether	93	5.854	5.854	0.000	97	150907	10.0	10.1	
30 2-Chlorophenol	128	5.908	5.908	0.000	95	174578	10.0	10.2	
31 n-Decane	43	5.982	5.982	0.000	83	121973	10.0	10.1	
32 1,3-Dichlorobenzene	146	6.073	6.073	0.000	96	215618	10.0	9.79	
33 1,4-Dichlorobenzene	146	6.153	6.153	0.000	93	229293	10.0	10.1	
34 Benzyl alcohol	108	6.271	6.271	0.000	90	106085	10.0	10.2	
35 1,2-Dichlorobenzene	146	6.308	6.308	0.000	95	213031	10.0	9.87	
36 2-Methylphenol	108	6.394	6.394	0.000	97	162138	10.0	10.2	
37 Indene	116	6.404	6.404	0.000	92	326270	10.0	9.96	
38 2,2'-oxybis[1-chloropropan	45	6.420	6.420	0.000	86	147197	10.0	10.1	
39 N-Nitrosopyrrolidine	100	6.506	6.506	0.000	94	74734	10.0	10.5	
40 Acetophenone	105	6.543	6.543	0.000	85	269817	10.0	10.3	

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	6.543	6.543	0.000	67	132146	10.0	10.7	
42 4-Methylphenol	108	6.549	6.549	0.000	92	175728	10.0	10.5	
45 Hexachloroethane	117	6.661	6.661	0.000	93	97169	10.0	10.6	
46 Nitrobenzene	77	6.714	6.714	0.000	84	220872	10.0	10.4	
48 Isophorone	82	6.955	6.955	0.000	99	350811	10.0	10.3	
49 2-Nitrophenol	139	7.040	7.040	0.000	98	99536	10.0	10.0	
50 2,4-Dimethylphenol	107	7.078	7.078	0.000	98	214743	10.0	10.2	
52 Benzoic acid	122	7.126	7.126	0.000	87	57976	10.0	8.78	
53 Bis(2-chloroethoxy)methane	93	7.168	7.168	0.000	99	214718	10.0	10.2	
54 2,4-Dichlorophenol	162	7.281	7.281	0.000	95	175091	10.0	10.3	
56 1,2,4-Trichlorobenzene	180	7.366	7.366	0.000	94	219486	10.0	9.96	
58 Naphthalene	128	7.446	7.446	0.000	98	592967	10.0	9.75	
59 4-Chloroaniline	127	7.489	7.489	0.000	95	243925	10.0	10.2	
60 2,6-Dichlorophenol	162	7.500	7.500	0.000	97	171987	10.0	10.1	
62 Hexachlorobutadiene	225	7.574	7.574	0.000	94	157124	10.0	9.93	
64 Caprolactam	113	7.788	7.788	0.000	87	47247	10.0	9.83	
67 4-Chloro-3-methylphenol	107	7.943	7.943	0.000	94	188133	10.0	10.3	
69 2-Methylnaphthalene	142	8.119	8.119	0.000	92	447226	10.0	10.1	
71 1-Methylnaphthalene	142	8.215	8.215	0.000	92	383306	10.0	9.90	
72 Hexachlorocyclopentadiene	237	8.280	8.280	0.000	96	166401	10.0	9.90	
73 1,2,4,5-Tetrachlorobenzene	216	8.285	8.285	0.000	97	253471	10.0	10.1	
74 2,4,6-Trichlorophenol	196	8.386	8.386	0.000	92	140085	10.0	10.6	
75 2,4,5-Trichlorophenol	196	8.418	8.418	0.000	93	151442	10.0	10.8	
76 1,1'-Biphenyl	154	8.563	8.563	0.000	95	551287	10.0	10.3	
77 2-Chloronaphthalene	162	8.595	8.595	0.000	97	414565	10.0	10.2	
79 2-Nitroaniline	65	8.675	8.675	0.000	79	119839	10.0	10.6	
82 Dimethyl phthalate	163	8.835	8.835	0.000	98	454395	10.0	10.2	
83 1,3-Dinitrobenzene	168	8.867	8.867	0.000	85	69318	10.0	10.0	
84 2,6-Dinitrotoluene	165	8.894	8.894	0.000	94	104957	10.0	10.5	
85 Acenaphthylene	152	8.995	8.995	0.000	98	647649	10.0	10.1	
86 3-Nitroaniline	138	9.065	9.065	0.000	92	102113	10.0	10.2	
87 2,4-Dinitrophenol	184	9.161	9.161	0.000	65	106159	20.0	16.4	
88 Acenaphthene	153	9.161	9.161	0.000	90	449927	10.0	10.3	
89 4-Nitrophenol	109	9.198	9.198	0.000	92	147011	20.0	20.4	
91 2,4-Dinitrotoluene	165	9.284	9.284	0.000	93	143206	10.0	10.2	
93 Dibenzofuran	168	9.327	9.327	0.000	96	638452	10.0	10.1	
95 2,3,5,6-Tetrachlorophenol	232	9.396	9.396	0.000	94	132569	10.0	9.76	
96 2,3,4,6-Tetrachlorophenol	232	9.439	9.439	0.000	72	141201	10.0	10.5	
97 2-Naphthylamine	143	9.466	9.466	0.000	95	432426	10.0	10.8	
98 Diethyl phthalate	149	9.503	9.503	0.000	97	469555	10.0	10.3	
99 Hexadecane	57	9.514	9.514	0.000	93	256287	10.0	10.5	
100 4-Chlorophenyl phenyl ethe	204	9.636	9.636	0.000	93	275354	10.0	10.0	
101 4-Nitroaniline	138	9.647	9.647	0.000	80	113459	10.0	10.2	
103 Fluorene	166	9.658	9.658	0.000	94	536905	10.0	10.4	
104 4,6-Dinitro-2-methylphenol	198	9.679	9.679	0.000	90	177117	20.0	18.9	
105 N-Nitrosodiphenylamine	169	9.743	9.743	0.000	62	762970	20.0	19.9	
90 1,2-Diphenylhydrazine	77	9.786	9.786	0.000	98	535162	10.0	10.3	
57 Azobenzene	77	9.786	9.786	0.000	98	535162	10.0	10.3	
110 4-Bromophenyl phenyl ether	248	10.107	10.107	0.000	66	152770	10.0	9.94	
112 Hexachlorobenzene	284	10.192	10.192	0.000	92	148229	10.0	10.1	
113 Atrazine	200	10.229	10.229	0.000	95	156746	10.0	10.5	
116 Pentachlorophenol	266	10.368	10.368	0.000	89	179075	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	10.384	10.384	0.000	95	280304	10.0	10.7	
121 Phenanthrene	178	10.593	10.593	0.000	98	817668	10.0	10.0	
122 Anthracene	178	10.646	10.646	0.000	98	802784	10.0	10.0	
124 Carbazole	167	10.796	10.796	0.000	96	705160	10.0	10.2	
126 Di-n-butyl phthalate	149	11.122	11.122	0.000	100	750296	10.0	9.71	
131 Fluoranthene	202	11.982	11.982	0.000	98	890548	10.0	9.98	
132 Benzidine	184	12.121	12.121	0.000	99	290914	10.0	9.31	
133 Pyrene	202	12.302	12.302	0.000	98	942774	10.0	10.3	
138 Butyl benzyl phthalate	149	13.210	13.210	0.000	97	293262	10.0	9.59	
144 3,3'-Dichlorobenzidine	252	14.188	14.188	0.000	74	239375	10.0	8.85	
145 Bis(2-ethylhexyl) phthalat	149	14.247	14.247	0.000	97	409057	10.0	9.37	
146 Benzo[a]anthracene	228	14.263	14.263	0.000	98	908773	10.0	9.98	
147 Chrysene	228	14.327	14.327	0.000	97	853582	10.0	10.0	
150 Di-n-octyl phthalate	149	15.540	15.540	0.000	99	536425	10.0	8.35	
151 7,12-Dimethylbenz(a)anthra	256	16.357	16.357	0.000	90	354164	10.0	10.3	
152 Benzo[b]fluoranthene	252	16.373	16.373	0.000	97	807964	10.0	10.2	
153 Benzo[k]fluoranthene	252	16.426	16.426	0.000	99	825218	10.0	10.4	
219 Benzo[e]pyrene	252	16.929	16.929	0.000	0	739858	10.0	10.2	
154 Benzo[a]pyrene	252	17.030	17.030	0.000	77	744082	10.0	10.1	
157 Indeno[1,2,3-cd]pyrene	276	19.450	19.450	0.000	99	782495	10.0	10.2	M
158 Dibenz(a,h)anthracene	278	19.482	19.482	0.000	91	632284	10.0	10.2	M
159 Benzo[g,h,i]perylene	276	20.107	20.107	0.000	98	655950	10.0	10.0	
S 197 Methyl Phenols,Total	108				0		20.0	20.8	
S 199 Total Cresols	108				0		20.0	20.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD10i_00123 Amount Added: 1.00 Units: mL

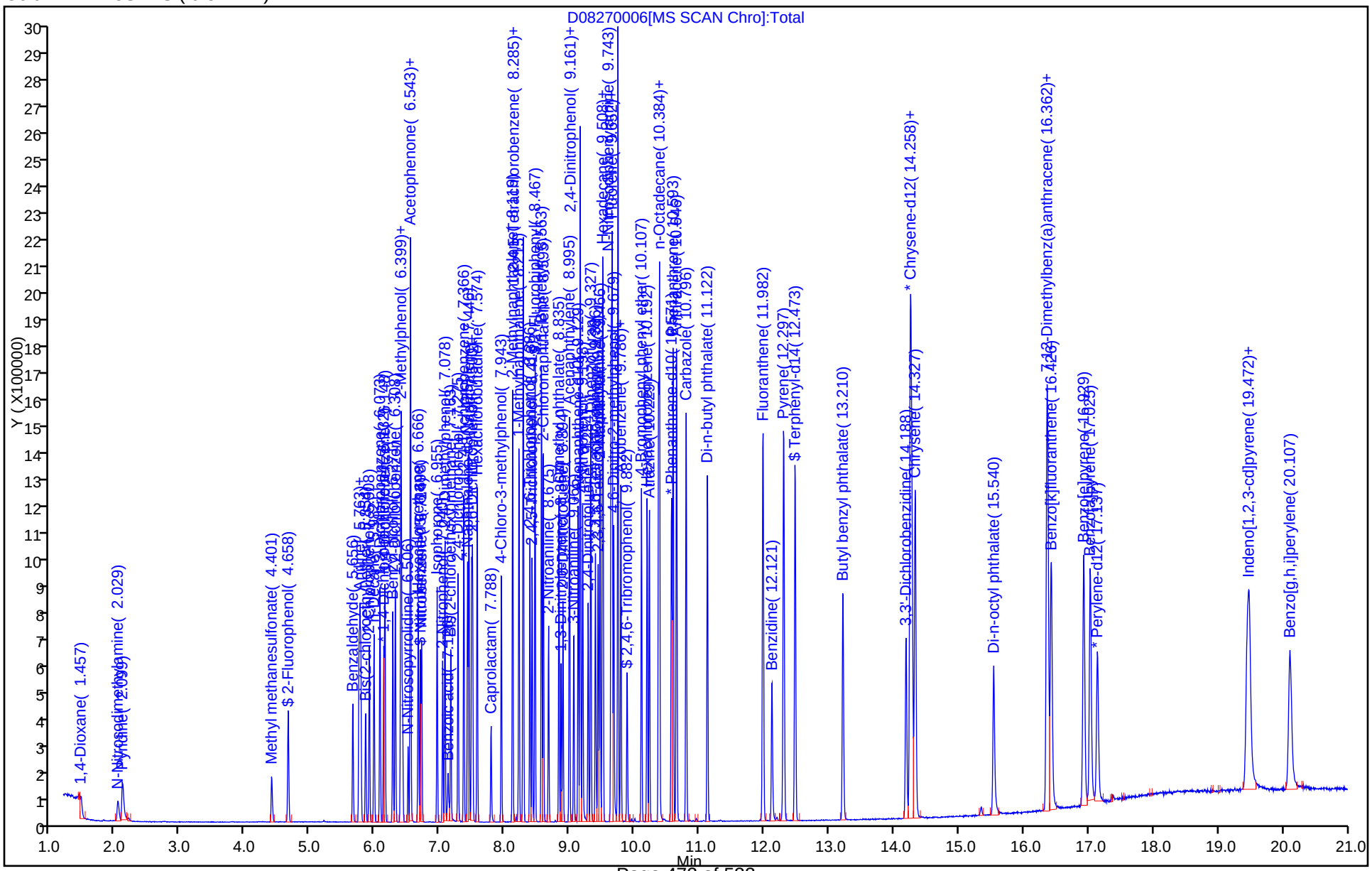
Report Date: 27-Aug-2015 10:15:48 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270006.D

Injection Date:	27-Aug-2015 06:44:30	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

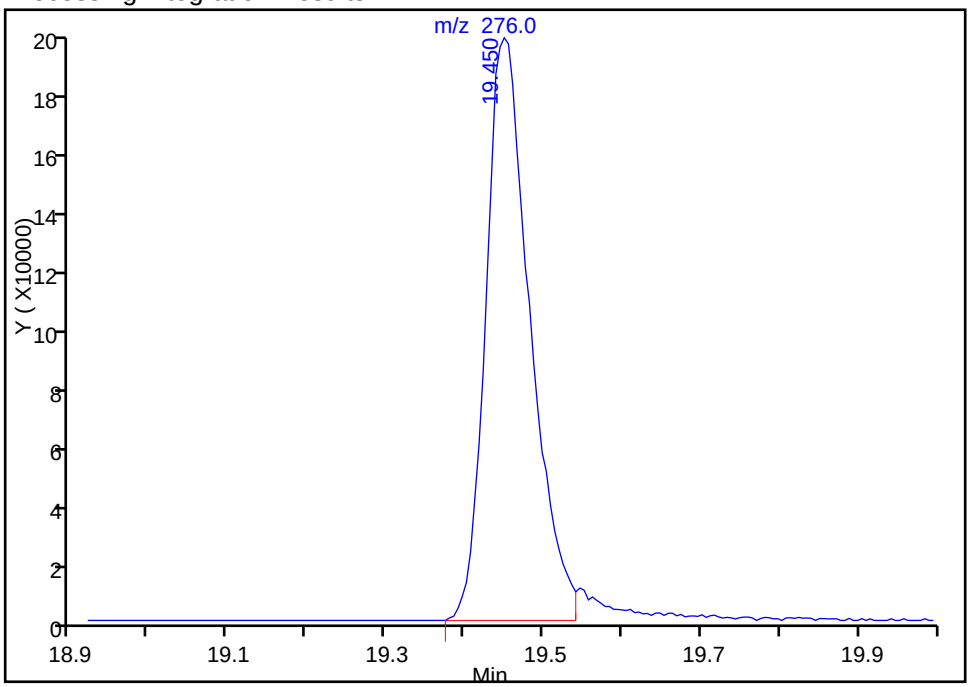
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270006.D				
Injection Date:	27-Aug-2015 06:44:30	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		

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

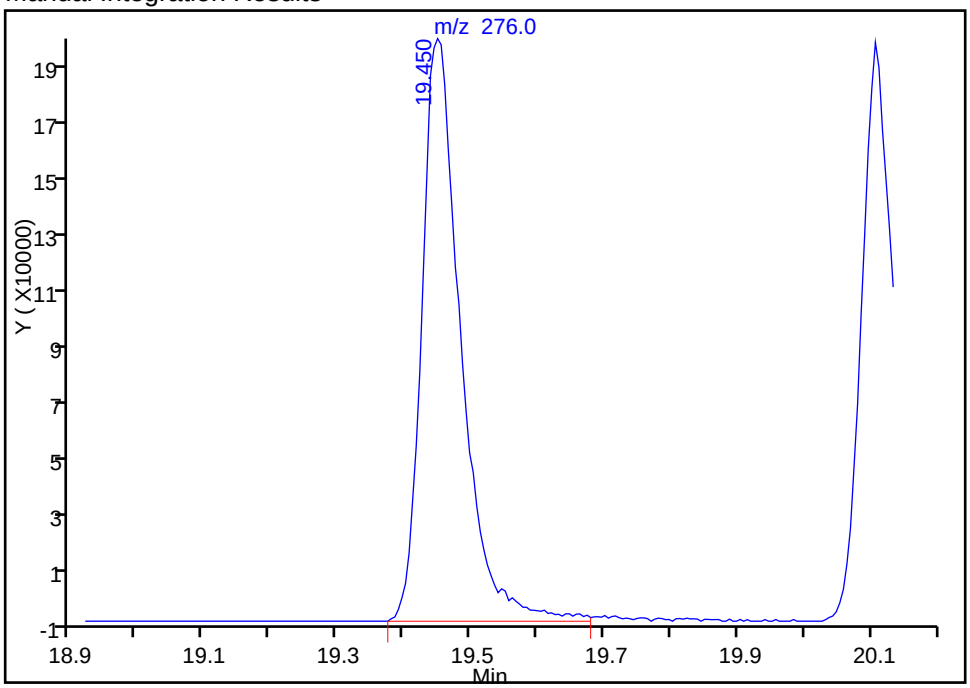
Processing Integration Results

RT: 19.45
Area: 749699
Amount: 9.311982
Amount Units: ng



Manual Integration Results

RT: 19.45
Area: 782495
Amount: 10.185514
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:23:21
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

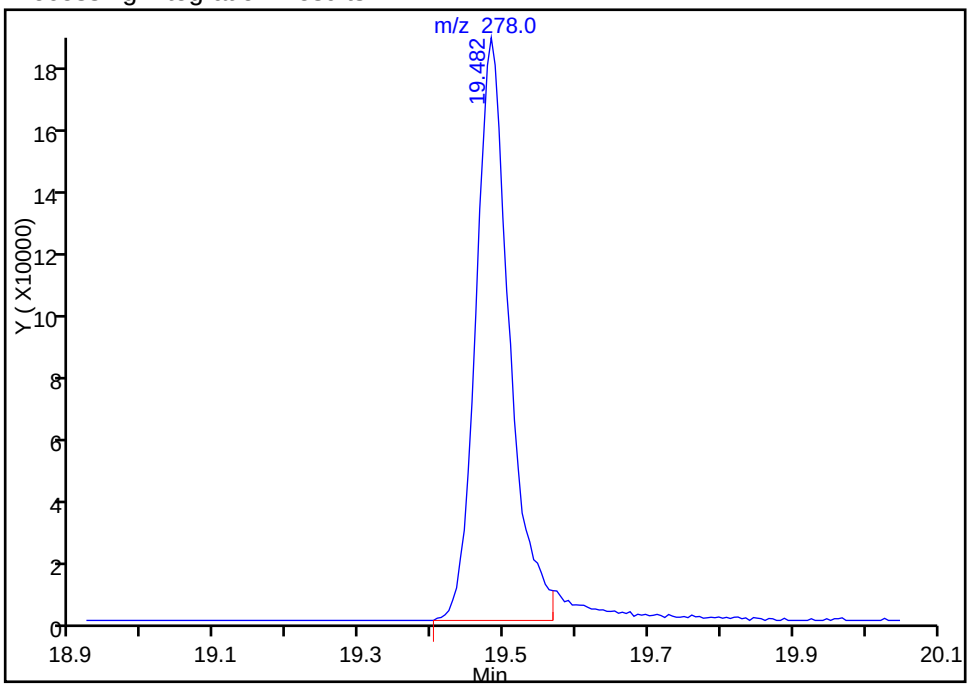
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270006.D				
Injection Date:	27-Aug-2015 06:44:30	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

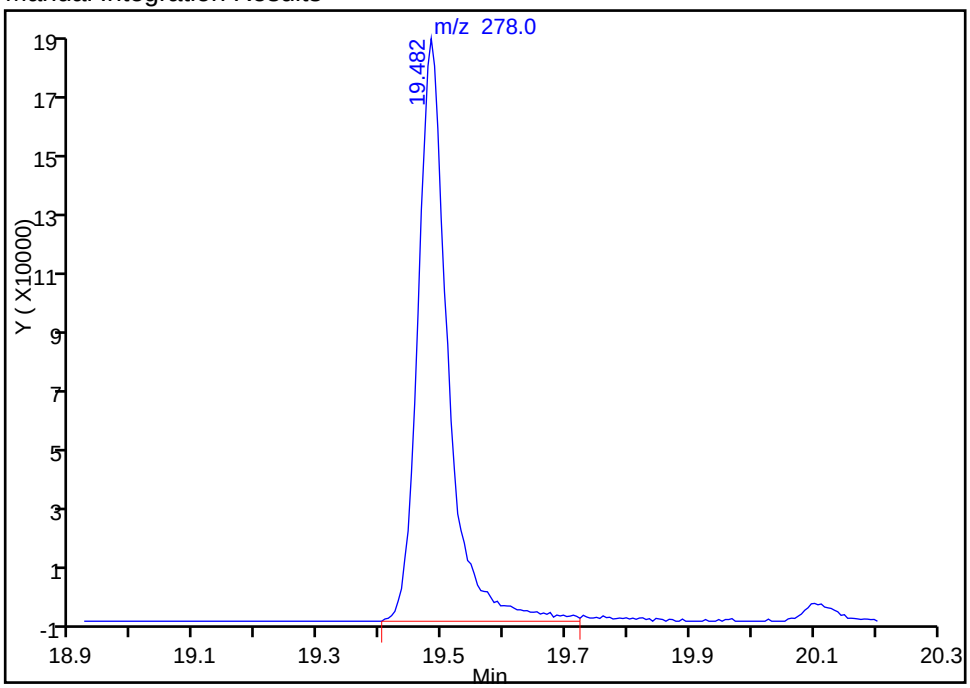
Processing Integration Results

RT: 19.48
Area: 600147
Amount: 9.223378
Amount Units: ng



Manual Integration Results

RT: 19.48
Area: 632284
Amount: 10.153376
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:23:21
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270007.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Aug-2015 07:23:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-007
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:15:58 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 07:52:54

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	6.132	0.069	96	108890	8.00	8.00	
* 2 Naphthalene-d8	136	7.483	7.425	0.058	99	421759	8.00	8.00	
* 3 Acenaphthene-d10	164	9.182	9.129	0.053	92	273316	8.00	8.00	
* 4 Phenanthrene-d10	188	10.619	10.571	0.048	98	515245	8.00	8.00	
* 5 Chrysene-d12	240	14.353	14.279	0.074	97	544843	8.00	8.00	
* 6 Perylene-d12	264	17.217	17.137	0.080	97	466404	8.00	8.00	
$ 7 2-Fluorophenol	112	4.753	4.658	0.095	91	316444	20.0	20.9	
$ 8 Phenol-d5	99	5.822	5.747	0.075	97	417566	20.0	20.3	
$ 9 Nitrobenzene-d5	82	6.762	6.698	0.064	87	432164	20.0	20.6	
$ 10 2-Fluorobiphenyl	172	8.520	8.467	0.053	100	1024406	20.0	20.2	
$ 11 2,4,6-Tribromophenol	330	9.935	9.888	0.047	85	102568	20.0	20.0	
$ 12 Terphenyl-d14	244	12.537	12.473	0.064	99	1168734	20.0	20.6	
13 1,4-Dioxane	88	1.569	1.468	0.101	86	107901	20.0	18.8	
14 N-Nitrosodimethylamine	74	2.173	2.029	0.144	92	136530	20.0	20.2	
15 Pyridine	79	2.237	2.099	0.138	95	265474	20.0	20.5	
21 Methyl methanesulfonate	80	4.502	4.401	0.101	88	176471	20.0	20.2	
25 Benzaldehyde	77	5.731	5.656	0.075	97	216478	20.0	19.9	
26 Phenol	94	5.838	5.763	0.075	96	476522	20.0	20.1	
27 Aniline	93	5.854	5.779	0.075	63	536626	20.0	20.2	
29 Bis(2-chloroethyl)ether	93	5.923	5.854	0.069	97	312396	20.0	20.0	
30 2-Chlorophenol	128	5.982	5.908	0.074	95	369713	20.0	20.6	
31 n-Decane	43	6.052	5.982	0.070	82	250434	20.0	19.9	
32 1,3-Dichlorobenzene	146	6.142	6.073	0.069	96	460549	20.0	20.0	
33 1,4-Dichlorobenzene	146	6.223	6.153	0.070	92	467119	20.0	19.7	
34 Benzyl alcohol	108	6.340	6.271	0.069	89	221882	20.0	20.5	
35 1,2-Dichlorobenzene	146	6.378	6.308	0.070	95	451168	20.0	20.0	
36 2-Methylphenol	108	6.463	6.394	0.069	96	336965	20.0	20.4	
37 Indene	116	6.468	6.404	0.064	87	676195	20.0	19.8	
38 2,2'-oxybis[1-chloropropan	45	6.484	6.420	0.064	86	295653	20.0	19.5	
39 N-Nitrosopyrrolidine	100	6.575	6.506	0.069	93	155122	20.0	20.8	
40 Acetophenone	105	6.607	6.543	0.064	83	534473	20.0	19.6	

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	6.607	6.543	0.064	63	261060	20.0	20.2	
42 4-Methylphenol	108	6.613	6.549	0.064	73	350167	20.0	20.1	
45 Hexachloroethane	117	6.730	6.661	0.069	91	192976	20.0	20.2	
46 Nitrobenzene	77	6.778	6.714	0.064	85	431354	20.0	20.2	
48 Isophorone	82	7.019	6.955	0.064	99	703445	20.0	20.5	
49 2-Nitrophenol	139	7.099	7.040	0.059	98	203813	20.0	20.4	
50 2,4-Dimethylphenol	107	7.136	7.078	0.058	98	432064	20.0	20.4	
52 Benzoic acid	122	7.195	7.126	0.069	87	152788	20.0	17.1	
53 Bis(2-chloroethoxy)methane	93	7.222	7.168	0.054	99	426156	20.0	20.0	
54 2,4-Dichlorophenol	162	7.339	7.281	0.058	95	359348	20.0	20.9	
56 1,2,4-Trichlorobenzene	180	7.425	7.366	0.059	93	442701	20.0	20.0	
58 Naphthalene	128	7.505	7.446	0.059	97	1222921	20.0	20.0	
59 4-Chloroaniline	127	7.547	7.489	0.058	95	493367	20.0	20.5	
60 2,6-Dichlorophenol	162	7.558	7.500	0.058	96	350413	20.0	20.5	
62 Hexachlorobutadiene	225	7.628	7.574	0.054	94	321270	20.0	20.2	
64 Caprolactam	113	7.852	7.788	0.064	87	101900	20.0	21.1	
67 4-Chloro-3-methylphenol	107	8.002	7.943	0.059	94	387246	20.0	21.1	
69 2-Methylnaphthalene	142	8.172	8.119	0.053	91	890372	20.0	19.9	
71 1-Methylnaphthalene	142	8.274	8.215	0.059	96	773454	20.0	19.9	
72 Hexachlorocyclopentadiene	237	8.333	8.280	0.053	95	359967	20.0	21.3	
73 1,2,4,5-Tetrachlorobenzene	216	8.338	8.285	0.053	97	515477	20.0	20.3	
74 2,4,6-Trichlorophenol	196	8.440	8.386	0.054	91	282164	20.0	21.3	
75 2,4,5-Trichlorophenol	196	8.477	8.418	0.059	94	310100	20.0	21.9	
76 1,1'-Biphenyl	154	8.616	8.563	0.053	95	1093083	20.0	20.2	
77 2-Chloronaphthalene	162	8.648	8.595	0.053	97	819668	20.0	20.0	
79 2-Nitroaniline	65	8.728	8.675	0.053	79	249067	20.0	21.9	
82 Dimethyl phthalate	163	8.888	8.835	0.053	98	913141	20.0	20.4	
83 1,3-Dinitrobenzene	168	8.920	8.867	0.053	87	144831	20.0	20.9	
84 2,6-Dinitrotoluene	165	8.952	8.894	0.058	95	210616	20.0	21.0	
85 Acenaphthylene	152	9.049	8.995	0.054	98	1324601	20.0	20.5	
86 3-Nitroaniline	138	9.118	9.065	0.053	92	212698	20.0	21.1	
87 2,4-Dinitrophenol	184	9.214	9.161	0.053	67	262062	40.0	34.9	
88 Acenaphthene	153	9.214	9.161	0.053	89	882731	20.0	20.0	
89 4-Nitrophenol	109	9.252	9.198	0.054	92	301156	40.0	41.5	
91 2,4-Dinitrotoluene	165	9.337	9.284	0.053	93	287358	20.0	20.3	
93 Dibenzofuran	168	9.380	9.327	0.053	96	1265525	20.0	19.9	
95 2,3,5,6-Tetrachlorophenol	232	9.449	9.396	0.053	93	280423	20.0	20.5	
96 2,3,4,6-Tetrachlorophenol	232	9.492	9.439	0.053	72	281807	20.0	20.8	
97 2-Naphthylamine	143	9.519	9.466	0.053	95	832157	20.0	20.7	
98 Diethyl phthalate	149	9.556	9.503	0.053	98	934356	20.0	20.4	
99 Hexadecane	57	9.561	9.514	0.047	92	505124	20.0	20.6	
100 4-Chlorophenyl phenyl ethe	204	9.690	9.636	0.054	91	548867	20.0	19.9	
101 4-Nitroaniline	138	9.700	9.647	0.053	85	227809	20.0	20.4	
103 Fluorene	166	9.706	9.658	0.048	93	1034271	20.0	19.9	
104 4,6-Dinitro-2-methylphenol	198	9.732	9.679	0.053	90	376550	40.0	40.8	
105 N-Nitrosodiphenylamine	169	9.797	9.743	0.054	61	1531602	40.0	40.6	
90 1,2-Diphenylhydrazine	77	9.839	9.786	0.053	98	1046464	20.0	20.5	
57 Azobenzene	77	9.839	9.786	0.053	98	1046464	20.0	20.5	
110 4-Bromophenyl phenyl ether	248	10.154	10.107	0.047	64	304538	20.0	20.1	
112 Hexachlorobenzene	284	10.245	10.192	0.053	92	284825	20.0	19.8	
113 Atrazine	200	10.277	10.229	0.048	94	302744	20.0	20.7	
116 Pentachlorophenol	266	10.422	10.368	0.054	90	385498	40.0	39.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.432	10.384	0.048	95	557592	20.0	20.5	
121 Phenanthrene	178	10.646	10.593	0.053	97	1585431	20.0	19.7	
122 Anthracene	178	10.699	10.646	0.053	97	1632655	20.0	20.7	
124 Carbazole	167	10.849	10.796	0.053	96	1402210	20.0	20.6	
126 Di-n-butyl phthalate	149	11.175	11.122	0.053	100	1533243	20.0	20.2	
131 Fluoranthene	202	12.040	11.982	0.058	97	1769801	20.0	20.2	
132 Benzidine	184	12.179	12.121	0.058	99	604145	20.0	17.4	
133 Pyrene	202	12.361	12.302	0.059	98	1817383	20.0	20.5	
138 Butyl benzyl phthalate	149	13.280	13.210	0.070	98	632910	20.0	21.3	
144 3,3'-Dichlorobenzidine	252	14.263	14.188	0.075	74	547194	20.0	19.5	
145 Bis(2-ethylhexyl) phthalat	149	14.321	14.247	0.074	96	895485	20.0	19.9	
146 Benzo[a]anthracene	228	14.332	14.263	0.069	98	1802182	20.0	20.4	
147 Chrysene	228	14.402	14.327	0.075	97	1665530	20.0	20.2	
150 Di-n-octyl phthalate	149	15.614	15.540	0.074	99	1367652	20.0	18.6	
151 7,12-Dimethylbenz(a)anthra	256	16.437	16.357	0.080	91	760124	20.0	21.7	
152 Benzo[b]fluoranthene	252	16.453	16.373	0.080	97	1702232	20.0	21.0	
153 Benzo[k]fluoranthene	252	16.506	16.426	0.080	99	1711220	20.0	21.0	
219 Benzo[e]pyrene	252	17.003	16.929	0.074	0	1560075	20.0	21.1	
154 Benzo[a]pyrene	252	17.105	17.030	0.075	77	1596726	20.0	21.2	
157 Indeno[1,2,3-cd]pyrene	276	19.546	19.450	0.096	99	1715504	20.0	21.9	
158 Dibenz(a,h)anthracene	278	19.589	19.482	0.107	89	1390642	20.0	21.9	
159 Benzo[g,h,i]perylene	276	20.219	20.107	0.112	98	1464342	20.0	22.0	
S 197 Methyl Phenols,Total	108				0		40.0	40.5	
S 199 Total Cresols	108				0		40.0	40.5	

Reagents:

SVTAPSTD20i_00007 Amount Added: 1.00 Units: mL

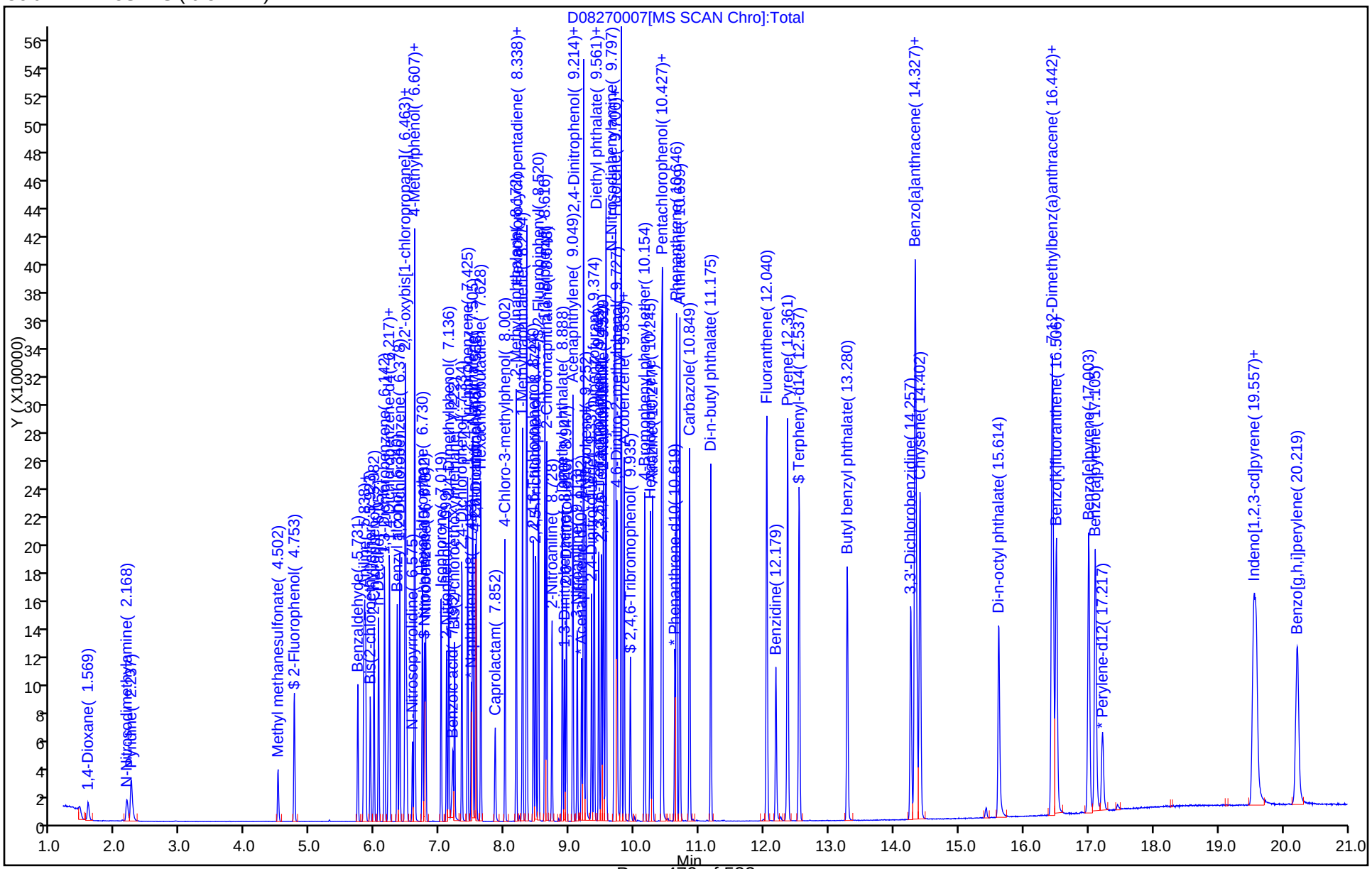
Report Date: 27-Aug-2015 10:16:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270007.D

Injection Date:	27-Aug-2015 07:23:30	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: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Aug-2015 07:49:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-008
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:16:16 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 08:53:29

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	6.137	6.132	0.005	96	100649	8.00	8.00	
* 2 Naphthalene-d8	136	7.430	7.425	0.005	99	386485	8.00	8.00	
* 3 Acenaphthene-d10	164	9.140	9.129	0.011	92	259623	8.00	8.00	
* 4 Phenanthrene-d10	188	10.577	10.571	0.006	97	507109	8.00	8.00	
* 5 Chrysene-d12	240	14.290	14.279	0.011	97	566470	8.00	8.00	
* 6 Perylene-d12	264	17.153	17.137	0.016	97	499435	8.00	8.00	
$ 7 2-Fluorophenol	112	4.668	4.658	0.010	91	586128	40.0	41.9	
$ 8 Phenol-d5	99	5.758	5.747	0.011	97	776609	40.0	40.9	
$ 9 Nitrobenzene-d5	82	6.704	6.698	0.006	87	792718	40.0	41.1	
$ 10 2-Fluorobiphenyl	172	8.472	8.467	0.005	100	1969852	40.0	40.9	
$ 11 2,4,6-Tribromophenol	330	9.893	9.888	0.005	87	212962	40.0	42.3	
$ 12 Terphenyl-d14	244	12.484	12.473	0.011	99	2455660	40.0	41.7	
13 1,4-Dioxane	88	1.474	1.468	0.006	87	197373	40.0	37.1	
14 N-Nitrosodimethylamine	74	2.045	2.029	0.016	93	253670	40.0	40.7	
15 Pyridine	79	2.115	2.099	0.016	95	499963	40.0	41.8	
21 Methyl methanesulfonate	80	4.412	4.401	0.011	88	322115	40.0	39.9	
25 Benzaldehyde	77	5.662	5.656	0.006	97	398700	40.0	39.7	
26 Phenol	94	5.774	5.763	0.011	97	865978	40.0	39.5	
27 Aniline	93	5.785	5.779	0.006	93	982866	40.0	40.1	
29 Bis(2-chloroethyl)ether	93	5.860	5.854	0.006	98	572881	40.0	39.7	
30 2-Chlorophenol	128	5.918	5.908	0.010	95	683452	40.0	41.3	
31 n-Decane	43	5.988	5.982	0.006	83	462126	40.0	39.7	
32 1,3-Dichlorobenzene	146	6.079	6.073	0.006	96	838054	40.0	39.5	
33 1,4-Dichlorobenzene	146	6.159	6.153	0.006	93	865696	40.0	39.6	
34 Benzyl alcohol	108	6.282	6.271	0.011	90	420998	40.0	42.1	
35 1,2-Dichlorobenzene	146	6.319	6.308	0.011	96	817664	40.0	39.3	
36 2-Methylphenol	108	6.404	6.394	0.010	95	623578	40.0	40.8	
37 Indene	116	6.410	6.404	0.006	88	1242631	40.0	39.3	
38 2,2'-oxybis[1-chloropropan	45	6.426	6.420	0.006	86	544169	40.0	38.9	
39 N-Nitrosopyrrolidine	100	6.517	6.506	0.011	94	289452	40.0	42.0	
40 Acetophenone	105	6.549	6.543	0.006	83	978138	40.0	38.9	

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	6.554	6.543	0.011	64	469708	40.0	39.3	
42 4-Methylphenol	108	6.554	6.549	0.005	72	652399	40.0	40.6	
45 Hexachloroethane	117	6.672	6.661	0.011	90	353182	40.0	39.9	
46 Nitrobenzene	77	6.725	6.714	0.011	85	783975	40.0	40.1	
48 Isophorone	82	6.960	6.955	0.005	99	1335266	40.0	42.4	
49 2-Nitrophenol	139	7.046	7.040	0.006	98	387330	40.0	42.3	
50 2,4-Dimethylphenol	107	7.083	7.078	0.005	98	813583	40.0	42.0	
52 Benzoic acid	122	7.163	7.126	0.037	87	346724	40.0	37.0	
53 Bis(2-chloroethoxy)methane	93	7.174	7.168	0.006	99	792988	40.0	40.7	
54 2,4-Dichlorophenol	162	7.286	7.281	0.005	94	676586	40.0	43.0	
56 1,2,4-Trichlorobenzene	180	7.377	7.366	0.011	93	827436	40.0	40.7	
58 Naphthalene	128	7.452	7.446	0.006	97	2255631	40.0	40.2	
59 4-Chloroaniline	127	7.494	7.489	0.005	95	927024	40.0	42.1	
60 2,6-Dichlorophenol	162	7.510	7.500	0.010	98	661302	40.0	42.2	
62 Hexachlorobutadiene	225	7.580	7.574	0.006	94	592088	40.0	40.6	
64 Caprolactam	113	7.804	7.788	0.016	88	201093	40.0	45.4	
67 4-Chloro-3-methylphenol	107	7.954	7.943	0.011	94	733035	40.0	43.7	
69 2-Methylnaphthalene	142	8.125	8.119	0.006	92	1669295	40.0	40.7	
71 1-Methylnaphthalene	142	8.226	8.215	0.011	92	1442023	40.0	40.4	
72 Hexachlorocyclopentadiene	237	8.285	8.280	0.005	94	715858	40.0	44.6	
73 1,2,4,5-Tetrachlorobenzene	216	8.290	8.285	0.005	96	981820	40.0	40.8	
74 2,4,6-Trichlorophenol	196	8.392	8.386	0.006	92	559680	40.0	44.5	
75 2,4,5-Trichlorophenol	196	8.429	8.418	0.011	94	590477	40.0	43.9	
76 1,1'-Biphenyl	154	8.573	8.563	0.010	94	2092034	40.0	40.7	
77 2-Chloronaphthalene	162	8.600	8.595	0.005	96	1588013	40.0	40.9	
79 2-Nitroaniline	65	8.680	8.675	0.005	80	484793	40.0	44.8	
82 Dimethyl phthalate	163	8.846	8.835	0.011	99	1824153	40.0	42.8	
83 1,3-Dinitrobenzene	168	8.878	8.867	0.011	87	287597	40.0	43.6	
84 2,6-Dinitrotoluene	165	8.905	8.894	0.011	95	414440	40.0	43.5	
85 Acenaphthylene	152	9.001	8.995	0.006	98	2580374	40.0	42.0	
86 3-Nitroaniline	138	9.070	9.065	0.005	91	419862	40.0	43.8	
88 Acenaphthene	153	9.172	9.161	0.011	88	1705375	40.0	40.7	
87 2,4-Dinitrophenol	184	9.172	9.161	0.011	69	604486	80.0	79.7	
89 4-Nitrophenol	109	9.214	9.198	0.016	91	608398	80.0	88.3	
91 2,4-Dinitrotoluene	165	9.295	9.284	0.011	93	575971	40.0	42.9	
93 Dibenzofuran	168	9.332	9.327	0.005	97	2510650	40.0	41.5	
95 2,3,5,6-Tetrachlorophenol	232	9.401	9.396	0.005	93	570841	40.0	44.0	
96 2,3,4,6-Tetrachlorophenol	232	9.444	9.439	0.005	71	558343	40.0	43.4	
97 2-Naphthylamine	143	9.476	9.466	0.010	95	1690393	40.0	44.3	
98 Diethyl phthalate	149	9.514	9.503	0.011	98	1830833	40.0	42.2	
99 Hexadecane	57	9.519	9.514	0.005	92	910814	40.0	40.5	
100 4-Chlorophenyl phenyl ethe	204	9.647	9.636	0.011	91	1070906	40.0	40.8	
101 4-Nitroaniline	138	9.658	9.647	0.011	81	457519	40.0	43.1	
103 Fluorene	166	9.663	9.658	0.005	94	2058565	40.0	41.6	
104 4,6-Dinitro-2-methylphenol	198	9.690	9.679	0.011	92	841937	80.0	92.8	
105 N-Nitrosodiphenylamine	169	9.754	9.743	0.011	61	3054825	80.0	82.2	
90 1,2-Diphenylhydrazine	77	9.797	9.786	0.011	98	2019882	40.0	40.2	
57 Azobenzene	77	9.797	9.786	0.011	98	2019882	40.0	40.2	
110 4-Bromophenyl phenyl ether	248	10.117	10.107	0.010	64	613479	40.0	41.2	
112 Hexachlorobenzene	284	10.203	10.192	0.011	92	575078	40.0	40.6	
113 Atrazine	200	10.240	10.229	0.011	95	632646	40.0	43.9	
116 Pentachlorophenol	266	10.379	10.368	0.011	90	825885	80.0	86.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.390	10.384	0.006	95	1042593	40.0	41.4	
121 Phenanthrene	178	10.603	10.593	0.010	97	3232327	40.0	40.9	
122 Anthracene	178	10.657	10.646	0.011	97	3289228	40.0	42.3	
124 Carbazole	167	10.806	10.796	0.010	96	2865524	40.0	42.7	
126 Di-n-butyl phthalate	149	11.132	11.122	0.010	100	3254336	40.0	43.5	
131 Fluoranthene	202	11.987	11.982	0.005	97	3719899	40.0	43.1	
132 Benzidine	184	12.126	12.121	0.005	99	1612161	40.0	41.1	
133 Pyrene	202	12.308	12.302	0.006	98	3808141	40.0	41.4	
138 Butyl benzyl phthalate	149	13.221	13.210	0.011	97	1399738	40.0	45.4	
144 3,3'-Dichlorobenzidine	252	14.199	14.188	0.011	75	1251216	40.0	41.6	
145 Bis(2-ethylhexyl) phthalat	149	14.258	14.247	0.011	96	1984257	40.0	41.4	
146 Benzo[a]anthracene	228	14.274	14.263	0.011	98	3846103	40.0	41.9	
147 Chrysene	228	14.343	14.327	0.016	97	3567125	40.0	41.6	
150 Di-n-octyl phthalate	149	15.550	15.540	0.010	99	3308014	40.0	40.0	
151 7,12-Dimethylbenz(a)anthra	256	16.373	16.357	0.016	92	1660846	40.0	44.3	
152 Benzo[b]fluoranthene	252	16.394	16.373	0.021	97	3636264	40.0	41.9	
153 Benzo[k]fluoranthene	252	16.443	16.426	0.017	99	3794541	40.0	43.6	
219 Benzo[e]pyrene	252	16.945	16.929	0.016	0	3398497	40.0	42.8	
154 Benzo[a]pyrene	252	17.046	17.030	0.016	77	3500034	40.0	43.5	
157 Indeno[1,2,3-cd]pyrene	276	19.472	19.450	0.022	99	3791364	40.0	45.1	
158 Dibenz(a,h)anthracene	278	19.504	19.482	0.022	88	3047446	40.0	44.8	
159 Benzo[g,h,i]perylene	276	20.139	20.107	0.032	98	3173770	40.0	44.5	
S 197 Methyl Phenols,Total	108				0		80.0	81.4	
S 199 Total Cresols	108				0		80.0	81.4	

Reagents:

SVTAPSTD40i_00007 Amount Added: 1.00 Units: mL

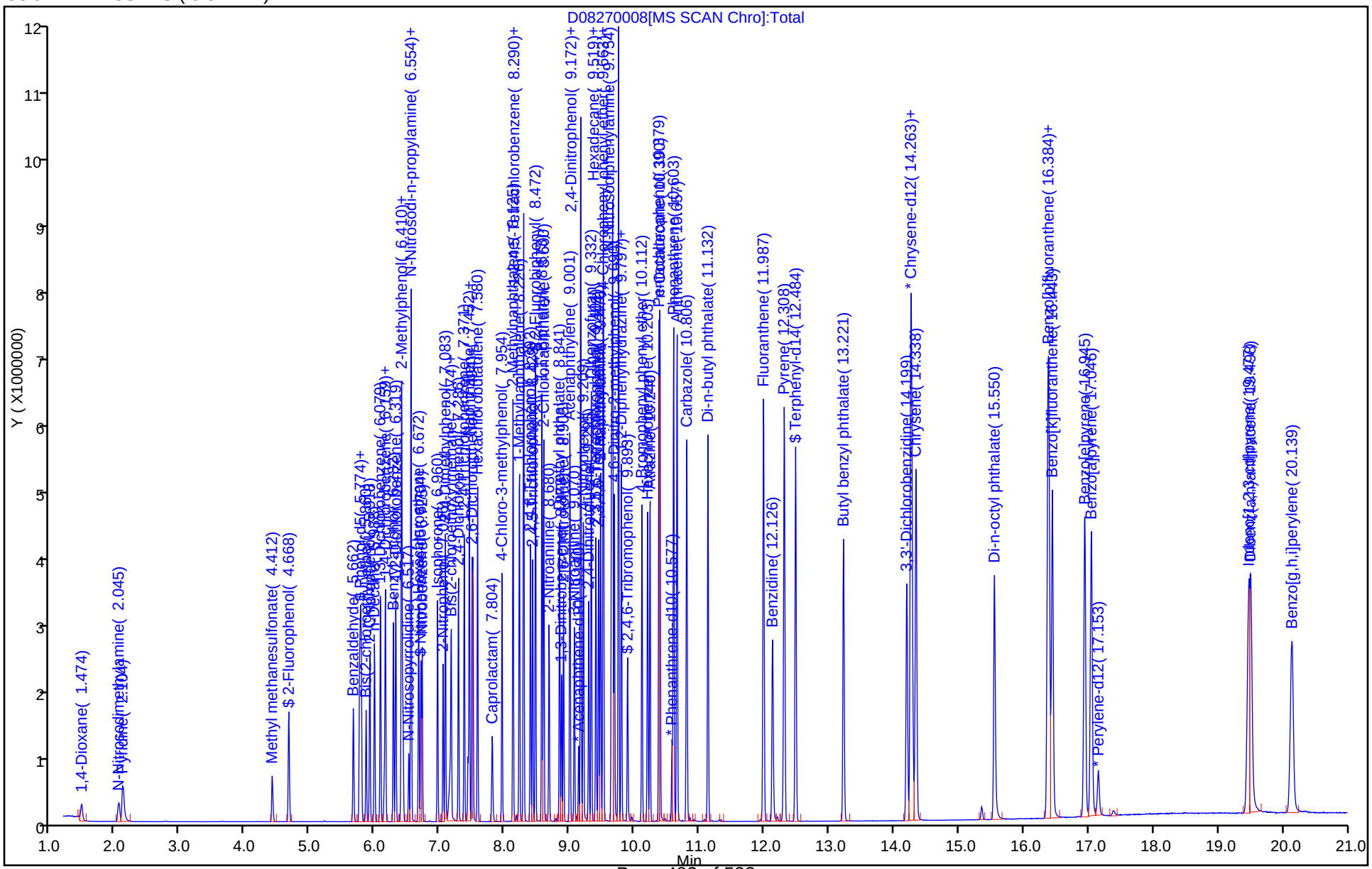
Report Date: 27-Aug-2015 10:16:18 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270008.D

Injection Date:	27-Aug-2015 07:49:30	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)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Aug-2015 08:16:30 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-009
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:16:30 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 08:55:22

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	6.132	6.132	0.000	96	98670	8.00	8.00	
* 2 Naphthalene-d8	136	7.425	7.425	0.000	99	388441	8.00	8.00	
* 3 Acenaphthene-d10	164	9.134	9.129	0.005	92	266086	8.00	8.00	
* 4 Phenanthrene-d10	188	10.571	10.571	0.000	97	510474	8.00	8.00	
* 5 Chrysene-d12	240	14.290	14.279	0.011	97	585058	8.00	8.00	
* 6 Perylene-d12	264	17.148	17.137	0.011	97	525798	8.00	8.00	
$ 7 2-Fluorophenol	112	4.658	4.658	0.000	91	867016	60.0	63.2	
$ 8 Phenol-d5	99	5.753	5.747	0.006	97	1169982	60.0	62.9	
$ 9 Nitrobenzene-d5	82	6.698	6.698	0.000	87	1199362	60.0	61.9	
$ 10 2-Fluorobiphenyl	172	8.467	8.467	0.000	100	3010856	60.0	60.9	
$ 11 2,4,6-Tribromophenol	330	9.888	9.888	0.000	88	338544	60.0	66.8	
$ 12 Terphenyl-d14	244	12.479	12.473	0.006	98	3792701	60.0	62.3	
13 1,4-Dioxane	88	1.458	1.468	-0.010	87	288446	60.0	55.3	
14 N-Nitrosodimethylamine	74	2.029	2.029	0.000	92	380332	60.0	62.2	
15 Pyridine	79	2.099	2.099	0.000	96	738438	60.0	63.0	
21 Methyl methanesulfonate	80	4.401	4.401	0.000	88	466879	60.0	59.0	
25 Benzaldehyde	77	5.657	5.656	0.001	96	588634	60.0	59.7	
26 Phenol	94	5.769	5.763	0.006	97	1291671	60.0	60.1	
27 Aniline	93	5.780	5.779	0.001	92	1474988	60.0	61.4	
29 Bis(2-chloroethyl)ether	93	5.854	5.854	0.000	98	856257	60.0	60.5	
30 2-Chlorophenol	128	5.913	5.908	0.005	95	1024174	60.0	63.1	
31 n-Decane	43	5.983	5.982	0.000	83	678383	60.0	59.4	
32 1,3-Dichlorobenzene	146	6.073	6.073	0.000	96	1283590	60.0	61.6	
33 1,4-Dichlorobenzene	146	6.153	6.153	0.000	94	1324513	60.0	61.7	
34 Benzyl alcohol	108	6.276	6.271	0.005	90	638480	60.0	65.2	
35 1,2-Dichlorobenzene	146	6.308	6.308	0.000	96	1240263	60.0	60.8	
36 2-Methylphenol	108	6.399	6.394	0.005	96	935730	60.0	62.4	
37 Indene	116	6.405	6.404	0.001	88	1889719	60.0	61.0	
38 2,2'-oxybis[1-chloropropan	45	6.421	6.420	0.001	86	803211	60.0	58.5	
39 N-Nitrosopyrrolidine	100	6.517	6.506	0.011	94	445429	60.0	65.9	
40 Acetophenone	105	6.549	6.543	0.006	84	1443811	60.0	58.5	

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	6.549	6.543	0.006	66	675770	60.0	57.7	
42 4-Methylphenol	108	6.549	6.549	0.000	86	954217	60.0	60.5	
45 Hexachloroethane	117	6.666	6.661	0.005	90	530835	60.0	61.2	
46 Nitrobenzene	77	6.720	6.714	0.006	85	1162575	60.0	59.1	
48 Isophorone	82	6.955	6.955	0.000	99	1998697	60.0	63.2	
49 2-Nitrophenol	139	7.040	7.040	0.000	98	591362	60.0	64.3	
50 2,4-Dimethylphenol	107	7.078	7.078	0.000	98	1219307	60.0	62.6	
52 Benzoic acid	122	7.174	7.126	0.048	87	604130	60.0	61.5	
53 Bis(2-chloroethoxy)methane	93	7.168	7.168	0.000	99	1161191	60.0	59.3	
54 2,4-Dichlorophenol	162	7.281	7.281	0.000	94	1023138	60.0	64.7	
56 1,2,4-Trichlorobenzene	180	7.371	7.366	0.005	93	1242664	60.0	60.9	
58 Naphthalene	128	7.446	7.446	0.000	97	3434071	60.0	61.0	
59 4-Chloroaniline	127	7.489	7.489	0.000	95	1404773	60.0	63.5	
60 2,6-Dichlorophenol	162	7.505	7.500	0.005	98	995809	60.0	63.3	
62 Hexachlorobutadiene	225	7.574	7.574	0.000	93	907594	60.0	61.9	
64 Caprolactam	113	7.810	7.788	0.022	87	311353	60.0	69.9	
67 4-Chloro-3-methylphenol	107	7.954	7.943	0.011	94	1114851	60.0	66.1	
69 2-Methylnaphthalene	142	8.119	8.119	0.000	92	2526821	60.0	61.4	
71 1-Methylnaphthalene	142	8.221	8.215	0.006	93	2205431	60.0	61.5	
72 Hexachlorocyclopentadiene	237	8.280	8.280	0.000	95	1113755	60.0	67.6	
73 1,2,4,5-Tetrachlorobenzene	216	8.285	8.285	0.000	96	1493415	60.0	60.5	
74 2,4,6-Trichlorophenol	196	8.392	8.386	0.006	91	859867	60.0	66.7	
75 2,4,5-Trichlorophenol	196	8.424	8.418	0.006	93	913214	60.0	66.3	
76 1,1'-Biphenyl	154	8.568	8.563	0.005	94	3228436	60.0	61.3	
77 2-Chloronaphthalene	162	8.595	8.595	0.000	96	2437561	60.0	61.2	
79 2-Nitroaniline	65	8.675	8.675	0.000	81	723186	60.0	65.2	
82 Dimethyl phthalate	163	8.841	8.835	0.006	99	2784740	60.0	63.8	
83 1,3-Dinitrobenzene	168	8.873	8.867	0.006	88	459895	60.0	68.1	
84 2,6-Dinitrotoluene	165	8.899	8.894	0.005	95	647956	60.0	66.4	
85 Acenaphthylene	152	9.001	8.995	0.006	98	3965951	60.0	63.0	
86 3-Nitroaniline	138	9.070	9.065	0.005	92	639039	60.0	65.0	
88 Acenaphthene	153	9.166	9.161	0.005	87	2622396	60.0	61.0	
87 2,4-Dinitrophenol	184	9.166	9.161	0.005	70	958993	120.0	121.3	
89 4-Nitrophenol	109	9.209	9.198	0.011	91	928205	120.0	131.4	
91 2,4-Dinitrotoluene	165	9.289	9.284	0.005	93	887387	60.0	64.5	
93 Dibenzofuran	168	9.327	9.327	0.000	97	3823243	60.0	61.7	
95 2,3,5,6-Tetrachlorophenol	232	9.402	9.396	0.006	92	895895	60.0	67.3	
96 2,3,4,6-Tetrachlorophenol	232	9.444	9.439	0.005	71	882967	60.0	66.9	
97 2-Naphthylamine	143	9.471	9.466	0.005	96	2615066	60.0	66.9	
98 Diethyl phthalate	149	9.514	9.503	0.011	98	2869830	60.0	64.5	
99 Hexadecane	57	9.519	9.514	0.005	92	1328786	60.0	58.8	
100 4-Chlorophenyl phenyl ethe	204	9.642	9.636	0.006	89	1662715	60.0	61.9	
101 4-Nitroaniline	138	9.658	9.647	0.011	55	704181	60.0	64.8	
103 Fluorene	166	9.658	9.658	0.000	94	3147911	60.0	62.1	
104 4,6-Dinitro-2-methylphenol	198	9.685	9.679	0.006	92	1304345	120.0	142.8	
105 N-Nitrosodiphenylamine	169	9.749	9.743	0.006	60	4772991	120.0	127.6	
90 1,2-Diphenylhydrazine	77	9.792	9.786	0.006	98	3071727	60.0	60.7	
57 Azobenzene	77	9.792	9.786	0.006	98	3071727	60.0	60.7	
110 4-Bromophenyl phenyl ether	248	10.112	10.107	0.005	63	953903	60.0	63.7	
112 Hexachlorobenzene	284	10.198	10.192	0.006	93	886391	60.0	62.1	
113 Atrazine	200	10.235	10.229	0.006	94	974356	60.0	67.1	
116 Pentachlorophenol	266	10.374	10.368	0.006	91	1340193	120.0	138.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.390	10.384	0.006	95	1512839	60.0	61.2	
121 Phenanthrene	178	10.598	10.593	0.005	97	4901195	60.0	61.6	
122 Anthracene	178	10.652	10.646	0.006	96	5081227	60.0	64.9	
124 Carbazole	167	10.801	10.796	0.005	95	4369754	60.0	64.7	
126 Di-n-butyl phthalate	149	11.127	11.122	0.005	100	5009737	60.0	66.5	
131 Fluoranthene	202	11.987	11.982	0.005	96	5743660	60.0	66.1	
132 Benzidine	184	12.126	12.121	0.005	98	2643104	60.0	64.0	
133 Pyrene	202	12.308	12.302	0.006	98	5856402	60.0	61.6	
138 Butyl benzyl phthalate	149	13.216	13.210	0.006	96	2177555	60.0	68.4	
144 3,3'-Dichlorobenzidine	252	14.199	14.188	0.011	70	1989026	60.0	63.6	
145 Bis(2-ethylhexyl) phthalat	149	14.252	14.247	0.005	94	3081046	60.0	61.8	
146 Benzo[a]anthracene	228	14.268	14.263	0.005	96	6061874	60.0	63.9	
147 Chrysene	228	14.343	14.327	0.016	93	5505322	60.0	62.2	
150 Di-n-octyl phthalate	149	15.550	15.540	0.010	98	5290377	60.0	59.9	
151 7,12-Dimethylbenz(a)anthra	256	16.379	16.357	0.021	66	2635748	60.0	66.8	
152 Benzo[b]fluoranthene	252	16.395	16.373	0.022	93	5788634	60.0	63.3	
153 Benzo[k]fluoranthene	252	16.448	16.426	0.022	85	5793731	60.0	63.2	
219 Benzo[e]pyrene	252	16.939	16.929	0.010	0	5316287	60.0	63.6	
154 Benzo[a]pyrene	252	17.046	17.030	0.016	71	5451543	60.0	64.3	
157 Indeno[1,2,3-cd]pyrene	276	19.472	19.450	0.022	95	5931182	60.0	67.1	
158 Dibenz(a,h)anthracene	278	19.509	19.482	0.027	66	4804793	60.0	67.0	
159 Benzo[g,h,i]perylene	276	20.145	20.107	0.038	95	4975714	60.0	66.2	
S 197 Methyl Phenols,Total	108				0		120.0	123.0	
S 199 Total Cresols	108				0		120.0	123.0	

Reagents:

SVTAPSTD60i_00007 Amount Added: 1.00 Units: mL

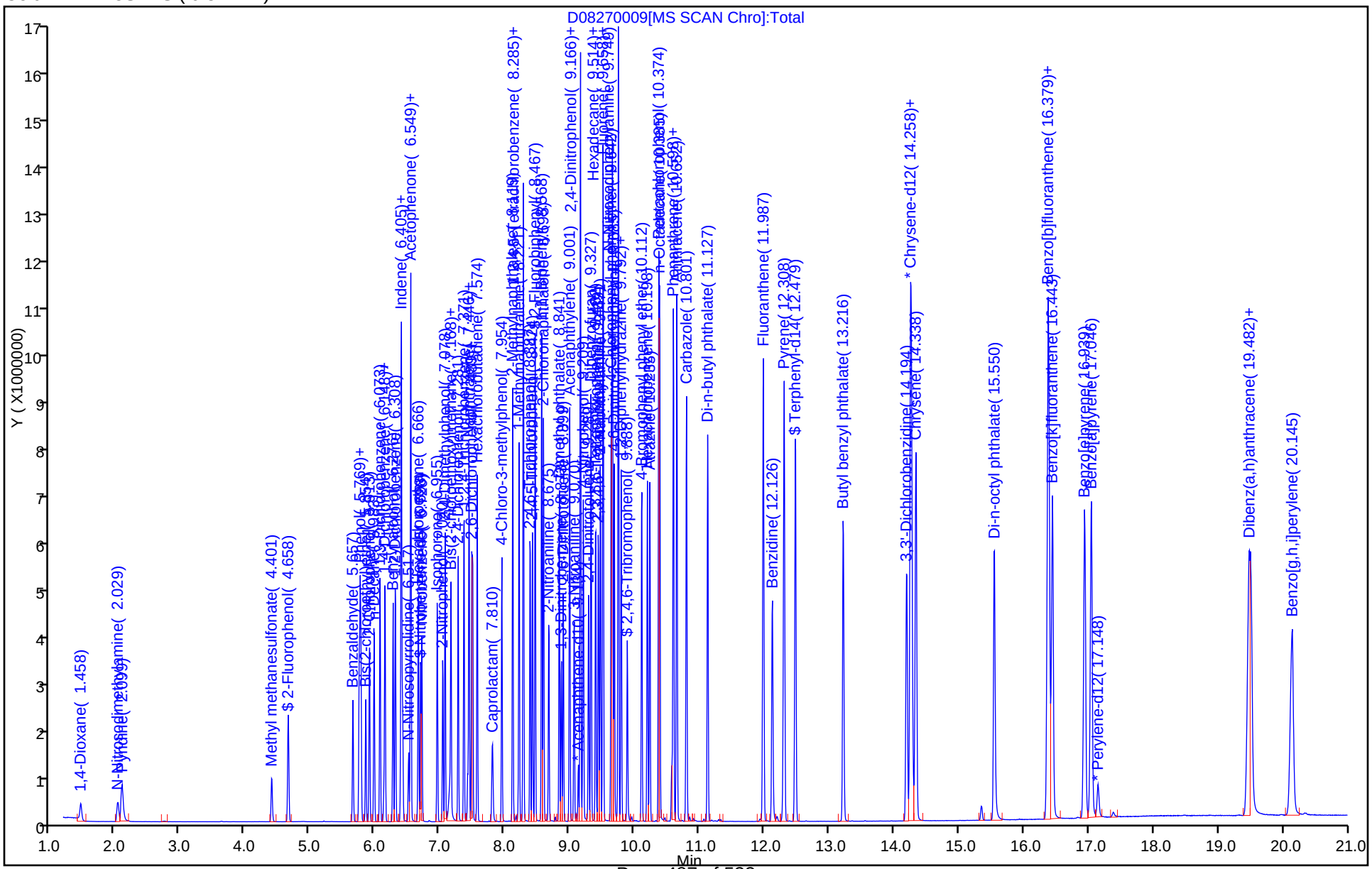
Report Date: 27-Aug-2015 10:16:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270009.D

Injection Date:	27-Aug-2015 08:16:30	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)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 27-Aug-2015 08:42:30 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-010
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:16:39 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 09:11:11

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	6.137	6.132	0.005	96	97525	8.00	8.00	
* 2 Naphthalene-d8	136	7.430	7.425	0.005	99	382473	8.00	8.00	
* 3 Acenaphthene-d10	164	9.134	9.129	0.005	91	270114	8.00	8.00	
* 4 Phenanthrene-d10	188	10.577	10.571	0.006	97	519187	8.00	8.00	
* 5 Chrysene-d12	240	14.295	14.279	0.016	97	597612	8.00	8.00	
* 6 Perylene-d12	264	17.153	17.137	0.016	97	532596	8.00	8.00	
$ 7 2-Fluorophenol	112	4.663	4.658	0.005	91	1155975	80.0	85.2	
$ 8 Phenol-d5	99	5.758	5.747	0.011	96	1528437	80.0	83.1	
$ 9 Nitrobenzene-d5	82	6.704	6.698	0.006	87	1560614	80.0	81.9	
$ 10 2-Fluorobiphenyl	172	8.472	8.467	0.005	100	4055390	80.0	80.8	
$ 11 2,4,6-Tribromophenol	330	9.893	9.888	0.005	90	468486	80.0	90.8	
$ 12 Terphenyl-d14	244	12.484	12.473	0.011	98	5113114	80.0	82.3	
13 1,4-Dioxane	88	1.468	1.468	0.000	87	369629	80.0	71.7	
14 N-Nitrosodimethylamine	74	2.045	2.029	0.016	93	496241	80.0	82.2	
15 Pyridine	79	2.109	2.099	0.010	95	958531	80.0	82.8	
21 Methyl methanesulfonate	80	4.412	4.401	0.011	88	618200	80.0	79.1	
25 Benzaldehyde	77	5.657	5.656	0.001	97	766535	80.0	78.7	
26 Phenol	94	5.774	5.763	0.011	98	1695423	80.0	79.8	
27 Aniline	93	5.785	5.779	0.006	98	1962166	80.0	82.7	
29 Bis(2-chloroethyl)ether	93	5.860	5.854	0.006	98	1116199	80.0	79.8	
30 2-Chlorophenol	128	5.918	5.908	0.010	95	1362952	80.0	85.0	
31 n-Decane	43	5.988	5.982	0.006	83	893665	80.0	79.2	
32 1,3-Dichlorobenzene	146	6.079	6.073	0.006	97	1689651	80.0	82.1	
33 1,4-Dichlorobenzene	146	6.153	6.153	0.000	94	1734372	80.0	81.8	
34 Benzyl alcohol	108	6.282	6.271	0.011	90	840398	80.0	86.8	
35 1,2-Dichlorobenzene	146	6.314	6.308	0.006	96	1649470	80.0	81.8	
36 2-Methylphenol	108	6.404	6.394	0.010	66	1220050	80.0	82.4	
37 Indene	116	6.404	6.404	0.000	88	2474423	80.0	80.8	
38 2,2'-oxybis[1-chloropropan	45	6.426	6.420	0.006	86	1055760	80.0	77.8	
39 N-Nitrosopyrrolidine	100	6.522	6.506	0.016	94	595856	80.0	89.2	
40 Acetophenone	105	6.549	6.543	0.006	93	1901165	80.0	78.0	

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	6.554	6.543	0.011	65	887516	80.0	76.7	
42 4-Methylphenol	108	6.554	6.549	0.005	96	1261390	80.0	80.9	
45 Hexachloroethane	117	6.666	6.661	0.005	90	687341	80.0	80.2	
46 Nitrobenzene	77	6.725	6.714	0.011	85	1545827	80.0	79.8	
48 Isophorone	82	6.960	6.955	0.005	99	2641885	80.0	84.9	
49 2-Nitrophenol	139	7.046	7.040	0.006	97	797385	80.0	88.0	
50 2,4-Dimethylphenol	107	7.078	7.078	0.000	97	1600870	80.0	83.5	
52 Benzoic acid	122	7.184	7.126	0.058	87	831525	80.0	84.5	
53 Bis(2-chloroethoxy)methane	93	7.168	7.168	0.000	98	1546206	80.0	80.2	
54 2,4-Dichlorophenol	162	7.281	7.281	0.000	93	1361346	80.0	87.4	
56 1,2,4-Trichlorobenzene	180	7.371	7.366	0.005	93	1670736	80.0	83.1	
58 Naphthalene	128	7.452	7.446	0.006	97	4594941	80.0	82.8	
59 4-Chloroaniline	127	7.494	7.489	0.005	96	1870066	80.0	85.9	
60 2,6-Dichlorophenol	162	7.505	7.500	0.005	98	1327959	80.0	85.7	
62 Hexachlorobutadiene	225	7.574	7.574	0.000	93	1189781	80.0	82.4	
64 Caprolactam	113	7.815	7.788	0.027	88	413543	80.0	94.3	
67 4-Chloro-3-methylphenol	107	7.959	7.943	0.016	94	1463681	80.0	88.1	
69 2-Methylnaphthalene	142	8.125	8.119	0.006	92	3393152	80.0	83.7	
71 1-Methylnaphthalene	142	8.221	8.215	0.006	93	2939600	80.0	83.3	
72 Hexachlorocyclopentadiene	237	8.285	8.280	0.005	94	1503712	80.0	90.0	
73 1,2,4,5-Tetrachlorobenzene	216	8.290	8.285	0.005	95	1982696	80.0	79.1	
74 2,4,6-Trichlorophenol	196	8.392	8.386	0.006	91	1154683	80.0	88.2	
75 2,4,5-Trichlorophenol	196	8.429	8.418	0.011	94	1191881	80.0	85.2	
76 1,1'-Biphenyl	154	8.568	8.563	0.005	94	4314960	80.0	80.8	
77 2-Chloronaphthalene	162	8.600	8.595	0.005	96	3209389	80.0	79.4	
79 2-Nitroaniline	65	8.680	8.675	0.005	82	952726	80.0	84.6	
82 Dimethyl phthalate	163	8.846	8.835	0.011	99	3736676	80.0	84.3	
83 1,3-Dinitrobenzene	168	8.873	8.867	0.006	88	596953	80.0	87.0	
84 2,6-Dinitrotoluene	165	8.905	8.894	0.011	95	847318	80.0	85.6	
85 Acenaphthylene	152	9.001	8.995	0.006	98	5361869	80.0	83.9	
86 3-Nitroaniline	138	9.070	9.065	0.005	92	852923	80.0	85.5	
88 Acenaphthene	153	9.166	9.161	0.005	91	3507444	80.0	80.4	
87 2,4-Dinitrophenol	184	9.172	9.161	0.011	93	1351450	160.0	167.0	
89 4-Nitrophenol	109	9.214	9.198	0.016	90	1239225	160.0	172.9	
91 2,4-Dinitrotoluene	165	9.295	9.284	0.011	93	1186763	80.0	85.0	
93 Dibenzofuran	168	9.332	9.327	0.005	97	5176736	80.0	82.3	
95 2,3,5,6-Tetrachlorophenol	232	9.401	9.396	0.005	92	1212705	80.0	89.8	
96 2,3,4,6-Tetrachlorophenol	232	9.444	9.439	0.005	71	1201534	80.0	89.7	
97 2-Naphthylamine	143	9.476	9.466	0.010	96	3516424	80.0	88.6	
98 Diethyl phthalate	149	9.514	9.503	0.011	98	3788445	80.0	83.9	
99 Hexadecane	57	9.519	9.514	0.005	93	1689230	80.0	75.9	
100 4-Chlorophenyl phenyl ethe	204	9.642	9.636	0.006	89	2226097	80.0	81.6	
101 4-Nitroaniline	138	9.663	9.647	0.016	54	948636	80.0	85.9	
103 Fluorene	166	9.663	9.658	0.005	94	4228475	80.0	82.2	
104 4,6-Dinitro-2-methylphenol	198	9.690	9.679	0.011	93	1784464	160.0	192.1	
105 N-Nitrosodiphenylamine	169	9.754	9.743	0.011	60	6406001	160.0	168.4	
90 1,2-Diphenylhydrazine	77	9.797	9.786	0.011	97	3982021	80.0	77.3	
57 Azobenzene	77	9.797	9.786	0.011	97	3982021	80.0	77.3	
110 4-Bromophenyl phenyl ether	248	10.112	10.107	0.005	63	1300452	80.0	85.4	
112 Hexachlorobenzene	284	10.203	10.192	0.011	93	1193780	80.0	82.2	
113 Atrazine	200	10.240	10.229	0.011	94	1303874	80.0	88.3	
116 Pentachlorophenol	266	10.379	10.368	0.011	92	1866135	160.0	189.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.390	10.384	0.006	96	1954872	80.0	80.1	
121 Phenanthrene	178	10.603	10.593	0.010	97	6706452	80.0	82.8	
122 Anthracene	178	10.657	10.646	0.011	96	6874021	80.0	86.4	
124 Carbazole	167	10.806	10.796	0.010	95	5963353	80.0	86.8	
126 Di-n-butyl phthalate	149	11.132	11.122	0.010	100	6803759	80.0	88.8	
131 Fluoranthene	202	11.987	11.982	0.005	96	7747328	80.0	87.6	
132 Benzidine	184	12.126	12.121	0.005	98	3616899	80.0	84.9	
133 Pyrene	202	12.308	12.302	0.006	98	7939804	80.0	81.7	
138 Butyl benzyl phthalate	149	13.221	13.210	0.011	96	2948041	80.0	90.7	
144 3,3'-Dichlorobenzidine	252	14.199	14.188	0.011	67	2752277	80.0	85.7	
145 Bis(2-ethylhexyl) phthalat	149	14.258	14.247	0.011	94	4208095	80.0	82.3	
146 Benzo[a]anthracene	228	14.274	14.263	0.011	94	8325840	80.0	86.0	
147 Chrysene	228	14.343	14.327	0.016	93	7553430	80.0	83.5	
150 Di-n-octyl phthalate	149	15.550	15.540	0.010	98	7471302	80.0	83.0	
151 7,12-Dimethylbenz(a)anthra	256	16.384	16.357	0.027	68	3632337	80.0	90.9	
152 Benzo[b]fluoranthene	252	16.400	16.373	0.027	93	8354915	80.0	90.3	
153 Benzo[k]fluoranthene	252	16.453	16.426	0.027	85	7722175	80.0	83.2	
219 Benzo[e]pyrene	252	16.945	16.929	0.016	0	7319965	80.0	86.5	
154 Benzo[a]pyrene	252	17.052	17.030	0.022	71	7517239	80.0	87.5	
157 Indeno[1,2,3-cd]pyrene	276	19.488	19.450	0.038	93	8269617	80.0	92.3	
158 Dibenz(a,h)anthracene	278	19.509	19.482	0.027	62	6791957	80.0	93.6	
159 Benzo[g,h,i]perylene	276	20.155	20.107	0.048	94	6939445	80.0	91.2	
S 197 Methyl Phenols,Total	108				0		160.0	163.3	
S 199 Total Cresols	108				0		160.0	163.3	

Reagents:

SVTAPSTD80i_00007 Amount Added: 1.00 Units: mL

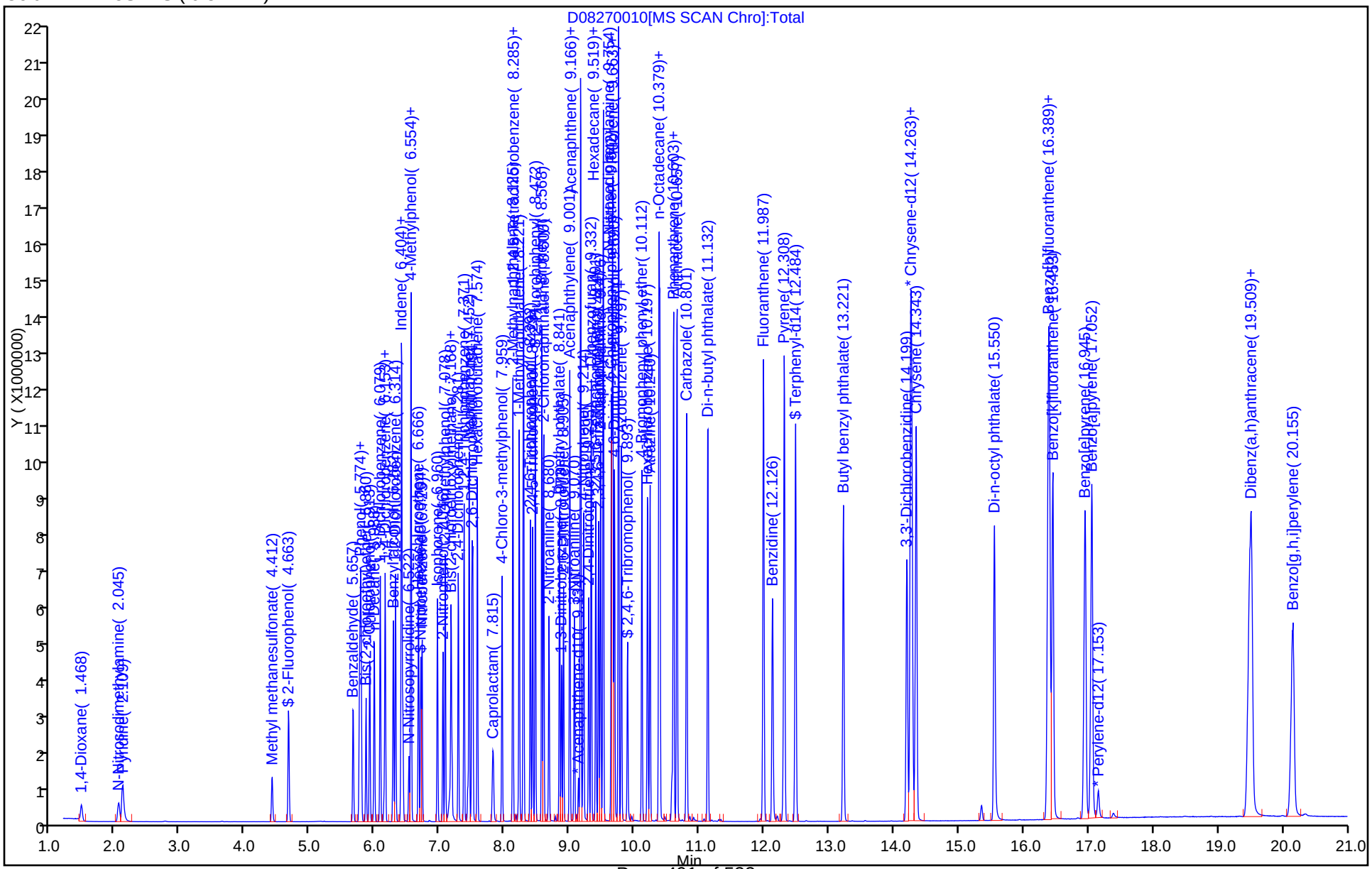
Report Date: 27-Aug-2015 10:16:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Injection Date:	27-Aug-2015 08:42:30	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.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-156303/3 Calibration Date: 10/08/2015 11:07

Instrument ID: CH732 Calib Start Date: 08/27/2015 05:25

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/27/2015 08:42

Lab File ID: D10080003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4227	0.3794	0.0100	4.49	5.00	-10.2	20.0
N-Nitrosodimethylamine	Ave	0.4954	0.5046	0.0100	5.09	5.00	1.9	20.0
Pyridine	Ave	0.9499	0.9320	0.0100	4.91	5.00	-1.9	20.0
Methyl methanesulfonate	Ave	0.6412	0.6500	0.0100	5.07	5.00	1.4	20.0
Benzaldehyde	Ave	0.7991	0.8287	0.0100	5.18	5.00	3.7	20.0
Phenol	Ave	1.742	1.613	0.8000	4.63	5.00	-7.4	20.0
Aniline	Ave	1.947	1.849	0.0100	4.75	5.00	-5.1	20.0
Bis(2-chloroethyl)ether	Ave	1.148	1.064	0.7000	4.63	5.00	-7.3	20.0
2-Chlorophenol	Ave	1.315	1.285	0.8000	4.89	5.00	-2.3	20.0
n-Decane	Ave	0.9257	1.081		5.84	5.00	16.7	20.0
1,3-Dichlorobenzene	Ave	1.688	1.598	0.0100	4.73	5.00	-5.4	20.0
1,4-Dichlorobenzene	Ave	1.740	1.615	0.0100	4.64	5.00	-7.2	20.0
Benzyl alcohol	Ave	0.7944	0.7224	0.0100	4.55	5.00	-9.1	20.0
1,2-Dichlorobenzene	Ave	1.654	1.561	0.0100	4.72	5.00	-5.6	20.0
2-Methylphenol	Ave	1.215	1.163	0.7000	4.79	5.00	-4.2	20.0
Indene	Ave	2.511	2.311	0.0100	4.60	5.00	-7.9	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.113	1.337	0.0100	6.01	5.00	20.2*	20.0
N-Nitrosopyrrolidine	Ave	0.5478	0.5594	0.0100	5.11	5.00	2.1	20.0
Acetophenone	Ave	2.000	1.891	0.0100	4.73	5.00	-5.4	20.0
N-Nitrosodi-n-propylamine	Ave	0.9493	1.019	0.5000	5.36	5.00	7.3	20.0
Methylphenol, 3 & 4	Ave	1.279	1.258	0.6000	4.92	5.00	-1.6	20.0
Hexachloroethane	Ave	0.7028	0.7000	0.3000	4.98	5.00	-0.4	20.0
Nitrobenzene	Ave	0.4051	0.4298	0.2000	5.31	5.00	6.1	20.0
Isophorone	Ave	0.6512	0.6824	0.4000	5.24	5.00	4.8	20.0
2-Nitrophenol	Ave	0.1895	0.1958	0.1000	5.17	5.00	3.4	20.0
2,4-Dimethylphenol	Ave	0.4011	0.3961	0.2000	4.94	5.00	-1.2	20.0
Benzoic acid	Lin1		0.1390	0.0100	5.05	5.00	1.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.4035	0.4020	0.3000	4.98	5.00	-0.4	20.0
2,4-Dichlorophenol	Ave	0.3257	0.3367	0.2000	5.17	5.00	3.4	20.0
1,2,4-Trichlorobenzene	Ave	0.4205	0.4268	0.0100	5.07	5.00	1.5	20.0
Naphthalene	Ave	1.160	1.130	0.7000	4.87	5.00	-2.6	20.0
4-Chloroaniline	Ave	0.4554	0.4615	0.0100	5.07	5.00	1.3	20.0
2,6-Dichlorophenol	Ave	0.3242	0.3417	0.0100	5.27	5.00	5.4	20.0
Hexachlorobutadiene	Ave	0.3019	0.3099	0.0100	5.13	5.00	2.6	20.0
Caprolactam	Ave	0.0917	0.0834	0.0100	4.55	5.00	-9.0	20.0
4-Chloro-3-methylphenol	Ave	0.3475	0.3521	0.2000	5.07	5.00	1.3	20.0
2-Methylnaphthalene	Ave	0.8482	0.8203	0.4000	4.84	5.00	-3.3	20.0
1-Methylnaphthalene	Ave	0.7385	0.7195	0.0100	4.87	5.00	-2.6	20.0
Hexachlorocyclopentadiene	Ave	0.4950	0.5220	0.0500	5.27	5.00	5.5	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7423	0.7124	0.0100	4.80	5.00	-4.0	20.0
2,4,6-Trichlorophenol	Ave	0.3876	0.4091	0.2000	5.28	5.00	5.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-156303/3 Calibration Date: 10/08/2015 11:07

Instrument ID: CH732 Calib Start Date: 08/27/2015 05:25

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/27/2015 08:42

Lab File ID: D10080003.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	0.4142	0.4302	0.2000	5.19	5.00	3.9	20.0
1,1'-Biphenyl	Ave	1.583	1.517	0.0100	4.79	5.00	-4.1	20.0
2-Chloronaphthalene	Ave	1.197	1.176	0.8000	4.91	5.00	-1.8	20.0
2-Nitroaniline	Ave	0.3336	0.3755	0.0100	5.63	5.00	12.6	20.0
Dimethyl phthalate	Ave	1.313	1.303	0.0100	4.96	5.00	-0.7	20.0
1,3-Dinitrobenzene	Ave	0.2031	0.1978	0.0100	4.87	5.00	-2.6	20.0
2,6-Dinitrotoluene	Ave	0.2933	0.2948	0.2000	5.03	5.00	0.5	20.0
Acenaphthylene	Ave	1.892	1.926	0.9000	5.09	5.00	1.8	20.0
3-Nitroaniline	Ave	0.2956	0.2863	0.0100	4.84	5.00	-3.1	20.0
2,4-Dinitrophenol	Lin1		0.1660	0.0100	8.59	10.0	-14.1	20.0
Acenaphthene	Ave	1.292	1.257	0.9000	4.86	5.00	-2.7	20.0
4-Nitrophenol	Ave	0.2123	0.2198	0.0100	10.4	10.0	3.5	20.0
2,4-Dinitrotoluene	Ave	0.4134	0.4020	0.2000	4.86	5.00	-2.7	20.0
Dibenzofuran	Ave	1.863	1.802	0.8000	4.84	5.00	-3.3	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.4000	0.3772	0.0100	4.72	5.00	-5.7	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3966	0.3833	0.0100	4.83	5.00	-3.3	20.0
2-Naphthylamine	Ave	1.175	1.112	0.0100	4.73	5.00	-5.4	20.0
Diethyl phthalate	Ave	1.338	1.324	0.0100	4.95	5.00	-1.0	20.0
Hexadecane	Ave	0.4655	0.5290		5.68	5.00	13.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.8082	0.7763	0.4000	4.80	5.00	-4.0	20.0
4-Nitroaniline	Ave	0.3270	0.3126	0.0100	4.78	5.00	-4.4	20.0
Fluorene	Ave	1.524	1.463	0.9000	4.80	5.00	-4.0	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1431	0.1269	0.0100	8.86	10.0	-11.4	20.0
N-Nitrosodiphenylamine	Ave	0.5861	0.5748	0.0100	9.81	10.0	-1.9	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7934	0.8350	0.0100	5.26	5.00	5.2	20.0
4-Bromophenyl phenyl ether	Ave	0.2347	0.2329	0.1000	4.96	5.00	-0.8	20.0
Hexachlorobenzene	Ave	0.2237	0.2162	0.1000	4.83	5.00	-3.4	20.0
Atrazine	Ave	0.2275	0.2301	0.0100	5.06	5.00	1.2	20.0
Pentachlorophenol	Ave	0.1515	0.1556	0.0500	10.3	10.0	2.8	20.0
n-Octadecane	Ave	2.003	2.215		5.53	5.00	10.6	20.0
Phenanthrene	Ave	1.247	1.186	0.7000	4.75	5.00	-5.0	20.0
Anthracene	Ave	1.226	1.199	0.7000	4.89	5.00	-2.2	20.0
Carbazole	Ave	1.059	1.040	0.0100	4.91	5.00	-1.7	20.0
Di-n-butyl phthalate	Ave	1.181	1.209	0.0100	5.12	5.00	2.4	20.0
Fluoranthene	Ave	1.362	1.343	0.6000	4.93	5.00	-1.4	20.0
Benzidine	Lin2		0.4093	0.0100	20.0	5.00	-7.7	20.0
Pyrene	Ave	1.300	1.250	0.6000	4.81	5.00	-3.8	20.0
Butyl benzyl phthalate	Ave	0.4353	0.4561	0.0100	5.24	5.00	4.8	20.0
3,3'-Dichlorobenzidine	Lin2		0.3799	0.0100	4.88	5.00	-2.5	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.6375	0.0100	5.09	5.00	1.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Lab Sample ID: CCVIS 180-156303/3 Calibration Date: 10/08/2015 11:07

Instrument ID: CH732 Calib Start Date: 08/27/2015 05:25

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/27/2015 08:42

Lab File ID: D10080003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.297	1.183	0.8000	4.56	5.00	-8.8	20.0
Chrysene	Ave	1.211	1.101	0.7000	4.55	5.00	-9.1	20.0
Di-n-octyl phthalate	Lin1		1.318	0.0100	5.55	5.00	11.0	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.6005	0.5679	0.0100	4.73	5.00	-5.4	20.0
Benzo[b]fluoranthene	Ave	1.390	1.375	0.7000	4.94	5.00	-1.1	20.0
Benzo[k]fluoranthene	Ave	1.394	1.299	0.7000	4.66	5.00	-6.9	20.0
Benzo[e]pyrene	Ave	1.271	1.238	0.0100	4.87	5.00	-2.6	20.0
Benzo[a]pyrene	Ave	1.290	1.246	0.7000	4.83	5.00	-3.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.345	1.371	0.5000	5.10	5.00	1.9	20.0
Dibenz(a,h)anthracene	Ave	1.090	1.109	0.4000	5.09	5.00	1.7	20.0
Benzo[g,h,i]perylene	Ave	1.143	1.154	0.5000	5.05	5.00	1.0	20.0
2-Fluorophenol (Surr)	Ave	1.113	1.058		4.75	5.00	-4.9	20.0
Phenol-d5 (Surr)	Ave	1.508	1.428		4.74	5.00	-5.3	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3988	0.4269		5.35	5.00	7.0	20.0
2-Fluorobiphenyl	Ave	1.486	1.476		4.97	5.00	-0.7	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.0795	0.0824	0.0100	5.18	5.00	3.7	20.0
Terphenyl-d14 (Surr)	Ave	0.8320	0.8083		4.86	5.00	-2.8	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080003.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Oct-2015 11:07:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008890-003
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 09-Oct-2015 06:23:18 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: piccolinov Date: 08-Oct-2015 12:08:39

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	6.137	6.137	0.000	97	110830	8.00	8.00	
* 2 Naphthalene-d8	136	7.414	7.414	0.000	99	421472	8.00	8.00	
* 3 Acenaphthene-d10	164	9.108	9.108	0.000	93	283655	8.00	8.00	
* 4 Phenanthrene-d10	188	10.529	10.529	0.000	97	519679	8.00	8.00	
* 5 Chrysene-d12	240	14.204	14.204	0.000	97	574302	8.00	8.00	
* 6 Perylene-d12	264	17.051	17.051	0.000	98	492951	8.00	8.00	
$ 7 2-Fluorophenol	112	4.695	4.695	0.000	93	146578	10.0	9.51	
$ 8 Phenol-d5	99	5.763	5.763	0.000	93	197881	10.0	9.47	
$ 9 Nitrobenzene-d5	82	6.693	6.693	0.000	90	224896	10.0	10.7	
$ 10 2-Fluorobiphenyl	172	8.445	8.445	0.000	100	523352	10.0	9.93	
$ 11 2,4,6-Tribromophenol	330	9.855	9.855	0.000	83	53535	10.0	10.4	
$ 12 Terphenyl-d14	244	12.409	12.409	0.000	99	580246	10.0	9.72	
13 1,4-Dioxane	88	1.516	1.516	0.000	90	52563	10.0	8.98	
14 N-Nitrosodimethylamine	74	2.099	2.099	0.000	86	69907	10.0	10.2	
15 Pyridine	79	2.179	2.179	0.000	95	129120	10.0	9.81	
21 Methyl methanesulfonate	80	4.444	4.444	0.000	91	90042	10.0	10.1	
25 Benzaldehyde	77	5.667	5.667	0.000	92	114800	10.0	10.4	
26 Phenol	94	5.779	5.779	0.000	91	223471	10.0	9.26	
27 Aniline	93	5.790	5.790	0.000	90	256132	10.0	9.49	
29 Bis(2-chloroethyl)ether	93	5.859	5.859	0.000	94	147389	10.0	9.27	
30 2-Chlorophenol	128	5.918	5.918	0.000	95	178089	10.0	9.77	
31 n-Decane	43	5.982	5.982	0.000	83	149713	10.0	11.7	
32 1,3-Dichlorobenzene	146	6.079	6.079	0.000	96	221340	10.0	9.46	
33 1,4-Dichlorobenzene	146	6.153	6.153	0.000	91	223680	10.0	9.28	
34 Benzyl alcohol	108	6.276	6.276	0.000	87	100076	10.0	9.09	
35 1,2-Dichlorobenzene	146	6.314	6.314	0.000	94	216196	10.0	9.44	
36 2-Methylphenol	108	6.394	6.394	0.000	95	161181	10.0	9.58	
37 Indene	116	6.399	6.399	0.000	88	320187	10.0	9.21	
38 2,2'-oxybis[1-chloropropan	45	6.415	6.415	0.000	86	185185	10.0	12.0	
39 N-Nitrosopyrrolidine	100	6.506	6.506	0.000	84	77504	10.0	10.2	
40 Acetophenone	105	6.538	6.538	0.000	86	262014	10.0	9.46	

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	6.538	6.538	0.000	82	141106	10.0	10.7	
42 4-Methylphenol	108	6.549	6.549	0.000	94	174217	10.0	9.84	
45 Hexachloroethane	117	6.661	6.661	0.000	89	96979	10.0	9.96	
46 Nitrobenzene	77	6.714	6.714	0.000	89	226441	10.0	10.6	
48 Isophorone	82	6.949	6.949	0.000	99	359527	10.0	10.5	
49 2-Nitrophenol	139	7.029	7.029	0.000	94	103170	10.0	10.3	
50 2,4-Dimethylphenol	107	7.067	7.067	0.000	99	208699	10.0	9.88	
52 Benzoic acid	122	7.120	7.120	0.000	87	73226	10.0	10.1	
53 Bis(2-chloroethoxy)methane	93	7.152	7.152	0.000	97	211783	10.0	9.96	
54 2,4-Dichlorophenol	162	7.270	7.270	0.000	96	177361	10.0	10.3	
56 1,2,4-Trichlorobenzene	180	7.355	7.355	0.000	94	224843	10.0	10.1	
58 Naphthalene	128	7.430	7.430	0.000	98	595441	10.0	9.74	
59 4-Chloroaniline	127	7.473	7.473	0.000	93	243115	10.0	10.1	
60 2,6-Dichlorophenol	162	7.489	7.489	0.000	95	179999	10.0	10.5	
62 Hexachlorobutadiene	225	7.558	7.558	0.000	94	163242	10.0	10.3	
64 Caprolactam	113	7.777	7.777	0.000	80	43958	10.0	9.10	
67 4-Chloro-3-methylphenol	107	7.932	7.932	0.000	94	185496	10.0	10.1	
69 2-Methylnaphthalene	142	8.103	8.103	0.000	91	432157	10.0	9.67	
71 1-Methylnaphthalene	142	8.199	8.199	0.000	92	379076	10.0	9.74	
72 Hexachlorocyclopentadiene	237	8.258	8.258	0.000	97	185084	10.0	10.5	
73 1,2,4,5-Tetrachlorobenzene	216	8.264	8.264	0.000	98	252582	10.0	9.60	
74 2,4,6-Trichlorophenol	196	8.365	8.365	0.000	95	145053	10.0	10.6	
75 2,4,5-Trichlorophenol	196	8.402	8.402	0.000	93	152529	10.0	10.4	
76 1,1'-Biphenyl	154	8.541	8.541	0.000	96	537846	10.0	9.59	
77 2-Chloronaphthalene	162	8.573	8.573	0.000	98	416842	10.0	9.82	
79 2-Nitroaniline	65	8.653	8.653	0.000	78	133156	10.0	11.3	
82 Dimethyl phthalate	163	8.814	8.814	0.000	98	462078	10.0	9.93	
83 1,3-Dinitrobenzene	168	8.846	8.846	0.000	84	70143	10.0	9.74	
84 2,6-Dinitrotoluene	165	8.873	8.873	0.000	91	104527	10.0	10.1	
85 Acenaphthylene	152	8.974	8.974	0.000	98	683074	10.0	10.2	
86 3-Nitroaniline	138	9.043	9.043	0.000	89	101525	10.0	9.69	
88 Acenaphthene	153	9.140	9.140	0.000	89	445662	10.0	9.73	
87 2,4-Dinitrophenol	184	9.140	9.140	0.000	67	117737	20.0	17.2	
89 4-Nitrophenol	109	9.182	9.182	0.000	93	155874	20.0	20.7	
91 2,4-Dinitrotoluene	165	9.263	9.263	0.000	91	142550	10.0	9.73	
93 Dibenzofuran	168	9.300	9.300	0.000	96	639104	10.0	9.67	
95 2,3,5,6-Tetrachlorophenol	232	9.369	9.369	0.000	94	133729	10.0	9.43	
96 2,3,4,6-Tetrachlorophenol	232	9.412	9.412	0.000	73	135912	10.0	9.67	
97 2-Naphthylamine	143	9.444	9.444	0.000	95	394169	10.0	9.46	
98 Diethyl phthalate	149	9.476	9.476	0.000	97	469537	10.0	9.90	
99 Hexadecane	57	9.482	9.482	0.000	97	278698	10.0	11.4	
100 4-Chlorophenyl phenyl ethe	204	9.610	9.610	0.000	93	275242	10.0	9.60	
101 4-Nitroaniline	138	9.620	9.620	0.000	83	110819	10.0	9.56	
103 Fluorene	166	9.626	9.626	0.000	94	518634	10.0	9.60	
104 4,6-Dinitro-2-methylphenol	198	9.652	9.652	0.000	86	164833	20.0	17.7	
105 N-Nitrosodiphenylamine	169	9.717	9.717	0.000	86	746819	20.0	19.6	
90 1,2-Diphenylhydrazine	77	9.759	9.759	0.000	100	542439	10.0	10.5	
57 Azobenzene	77	9.759	9.759	0.000	100	542439	10.0	10.5	
110 4-Bromophenyl phenyl ether	248	10.075	10.075	0.000	69	151275	10.0	9.92	
112 Hexachlorobenzene	284	10.160	10.160	0.000	91	140440	10.0	9.66	
113 Atrazine	200	10.197	10.197	0.000	94	149454	10.0	10.1	
116 Pentachlorophenol	266	10.336	10.336	0.000	89	202211	20.0	20.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.347	10.347	0.000	96	306895	10.0	11.1	
121 Phenanthrene	178	10.555	10.555	0.000	98	770117	10.0	9.50	
122 Anthracene	178	10.609	10.609	0.000	98	778950	10.0	9.78	
124 Carbazole	167	10.758	10.758	0.000	96	675824	10.0	9.83	
126 Di-n-butyl phthalate	149	11.079	11.079	0.000	100	785144	10.0	10.2	
131 Fluoranthene	202	11.923	11.923	0.000	98	872448	10.0	9.86	
132 Benzidine	184	12.062	12.062	0.000	99	293819	10.0	9.23	
133 Pyrene	202	12.243	12.243	0.000	98	897625	10.0	9.62	
138 Butyl benzyl phthalate	149	13.141	13.141	0.000	98	327441	10.0	10.5	
144 3,3'-Dichlorobenzidine	252	14.108	14.108	0.000	74	272696	10.0	9.75	
145 Bis(2-ethylhexyl) phthalat	149	14.161	14.161	0.000	96	457623	10.0	10.2	
146 Benzo[a]anthracene	228	14.183	14.183	0.000	98	848887	10.0	9.12	
147 Chrysene	228	14.252	14.252	0.000	96	790269	10.0	9.09	
150 Di-n-octyl phthalate	149	15.443	15.443	0.000	100	812199	10.0	11.1	
151 7,12-Dimethylbenz(a)anthra	256	16.266	16.266	0.000	90	349930	10.0	9.46	
152 Benzo[b]fluoranthene	252	16.288	16.288	0.000	97	847010	10.0	9.89	
153 Benzo[k]fluoranthene	252	16.336	16.336	0.000	99	800232	10.0	9.31	
219 Benzo[e]pyrene	252	16.838	16.838	0.000	0	763128	10.0	9.74	
154 Benzo[a]pyrene	252	16.939	16.939	0.000	76	767902	10.0	9.66	
157 Indeno[1,2,3-cd]pyrene	276	19.322	19.322	0.000	99	844826	10.0	10.2	
158 Dibenz(a,h)anthracene	278	19.349	19.349	0.000	88	683462	10.0	10.2	
159 Benzo[g,h,i]perylene	276	19.968	19.968	0.000	99	711386	10.0	10.1	
S 197 Methyl Phenols,Total	108				0		20.0	19.4	
S 199 Total Cresols	108				0		20.0	19.4	

Reagents:

SVTAPSTD10i_00129 Amount Added: 1.00 Units: mL

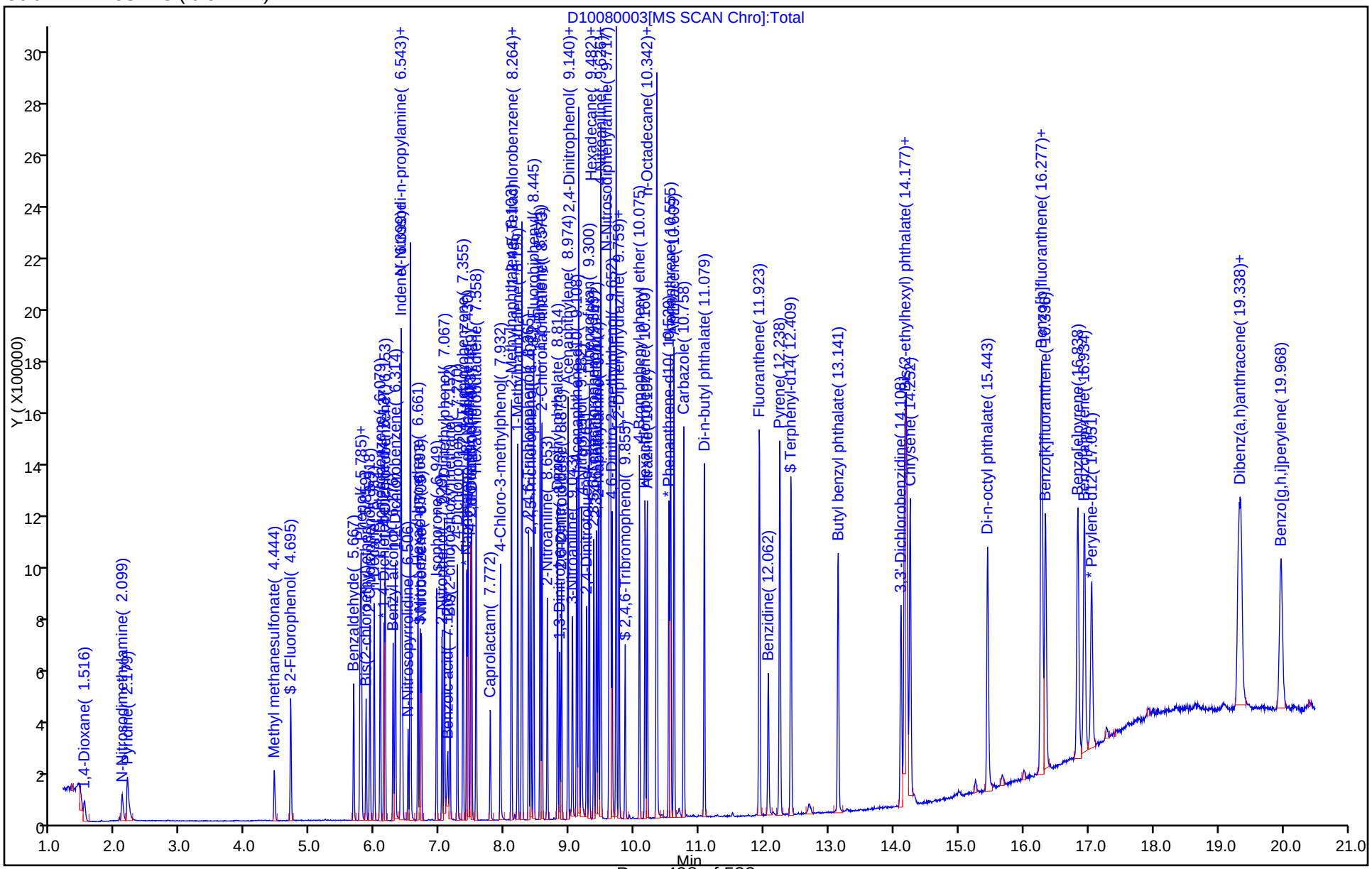
Report Date: 09-Oct-2015 06:23:19 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080003.D

Injection Date:	08-Oct-2015 11:07:30	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: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Aug-2015 05:10:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:14:44 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.440	5.440	0.000	90	457232	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.106	8.106	0.000	99	2969888	NR	NR	
193 4,4'-DDD	235		8.343					ND	
192 4,4'-DDE	246		8.645					ND	
194 4,4'-DDT	235	9.746	9.746	0.000	98	1608718	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
8 - Failed MS Tune Ratio Test

Reagents:

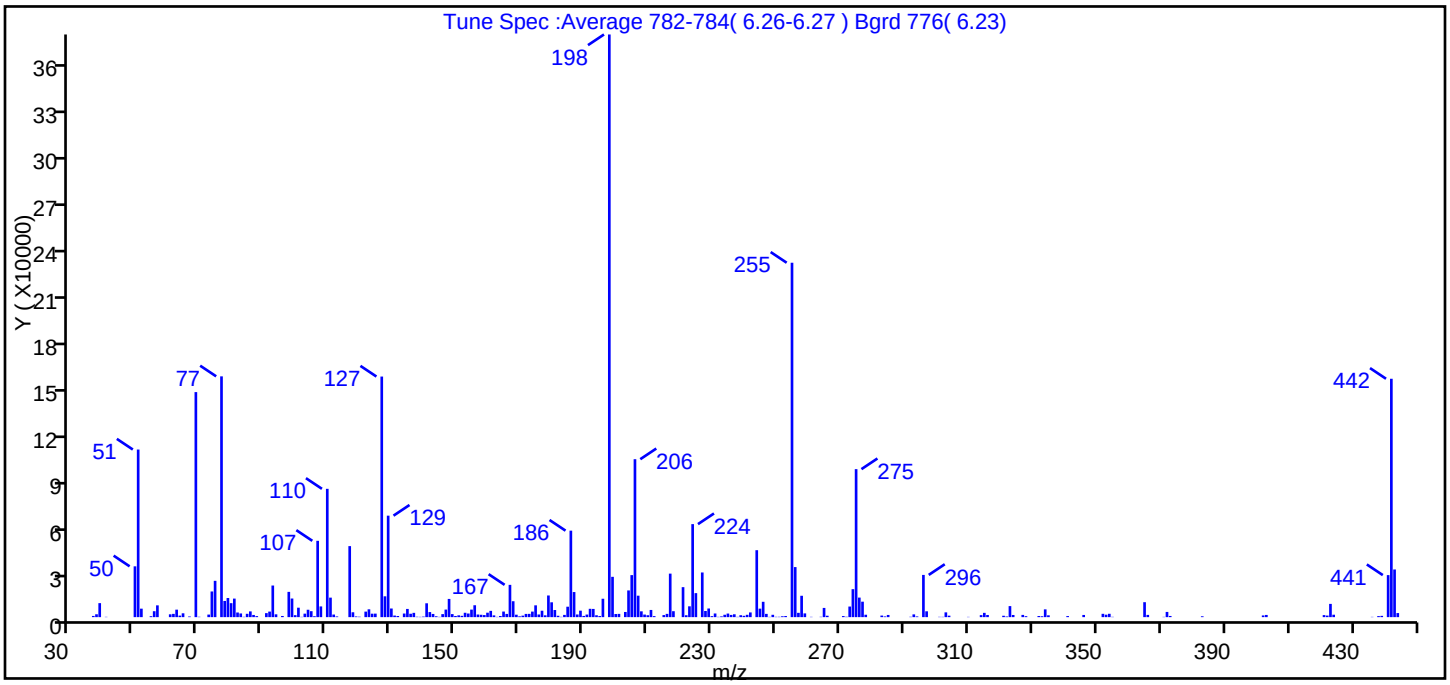
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D
Injection Date: 27-Aug-2015 05:10:30 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	28.8*
68	<2% of mass 69	0.0 (0.0)
69	Present	38.6
70	<2% of mass 69	0.1 (0.2)
127	40-60% of mass 198	41.3
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-30% of mass 198	25.4
365	>1% of mass 198	2.6
441	Present but less than mass 443	7.2 (88.2)
442	>40% of mass 198	40.9
443	17-23% of mass 442	8.2 (20.0)

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D\BNA_CH732.rslt\spectra.d
Injection Date: 27-Aug-2015 05:10:30
Spectrum: Tune Spec :Average 782-784(6.26-6.27) Bgrd 776(6.23)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 247

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	770	128.00	13297	191.00	1644	265.00	5884
38.00	1835	129.00	64760	192.00	5321	266.00	903
39.00	8937	130.00	5515	193.00	5243	271.00	688
41.00	189	131.00	1004	194.00	1204	272.00	252
50.00	32432	132.00	724	195.00	702	273.00	6764
51.00	106960	134.00	2302	196.00	11743	274.00	17856
52.00	5414	135.00	5239	198.00	371840	275.00	94448
55.00	598	136.00	2162	199.00	25728	276.00	12474
56.00	3785	137.00	2742	200.00	1997	277.00	9867
57.00	7524	138.00	252	201.00	2083	278.00	1537
61.00	1808	139.00	183	203.00	3302	283.00	1006
62.00	2090	140.00	347	204.00	17048	284.00	448
63.00	4782	141.00	8842	205.00	26816	285.00	1394
64.00	977	142.00	3237	206.00	100792	292.00	231
65.00	2458	143.00	2040	207.00	13692	293.00	1760
67.00	421	144.00	549	208.00	3711	294.00	447
69.00	143616	145.00	178	209.00	1650	296.00	26952
70.00	223	146.00	1930	210.00	1215	297.00	3728
73.00	1633	147.00	4836	211.00	4588	301.00	201
74.00	16383	148.00	11625	212.00	654	302.00	190
75.00	23176	149.00	1941	215.00	1322	303.00	3054
77.00	153664	150.00	742	216.00	2083	304.00	942
78.00	10331	151.00	1148	217.00	27776	310.00	169
79.00	12209	152.00	845	218.00	3796	314.00	1287
80.00	8920	153.00	2789	221.00	19136	315.00	2739
81.00	11840	154.00	2313	222.00	1211	316.00	1384
82.00	2959	155.00	4813	223.00	6917	321.00	884
83.00	2355	156.00	7591	224.00	59360	322.00	412
84.00	214	157.00	1668	225.00	15321	323.00	7043
85.00	2132	158.00	1510	227.00	28504	324.00	1383
86.00	3667	159.00	1321	228.00	3916	327.00	1429
87.00	1399	160.00	2836	229.00	5518	328.00	610
88.00	663	161.00	4013	230.00	633	332.00	712

Report Date: 27-Aug-2015 10:14:46 Chrom Revision: 2.2 23-Jul-2015 08:26:08
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D\BNA_CH732.rslt\spectra.d
Injection Date: 27-Aug-2015 05:10:30
Spectrum: Tune Spec :Average 782-784(6.26-6.27) Bgrd 776(6.23)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 247

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	2565	162.00	1123	231.00	2332	333.00	558
92.00	3552	163.00	173	232.00	188	334.00	4968
93.00	20176	164.00	717	233.00	475	335.00	1162
94.00	1804	165.00	3573	234.00	1522	341.00	688
96.00	742	166.00	2055	235.00	2288	346.00	1395
98.00	16128	167.00	20608	236.00	1411	352.00	2126
99.00	11884	168.00	10157	237.00	1827	353.00	1575
100.00	1262	169.00	1550	238.00	189	354.00	2140
101.00	6032	170.00	517	239.00	1228	355.00	194
102.00	175	171.00	962	240.00	851	365.00	9540
103.00	2220	172.00	2062	241.00	1487	366.00	1433
104.00	4722	173.00	2087	242.00	3006	371.00	174
105.00	3802	174.00	3546	244.00	42728	372.00	3326
106.00	579	175.00	7535	245.00	5424	373.00	755
107.00	48704	176.00	1691	246.00	9797	383.00	548
108.00	6842	177.00	4099	247.00	2082	402.00	1088
110.00	81888	178.00	1166	248.00	176	403.00	1405
111.00	12448	179.00	13824	249.00	1499	421.00	1307
112.00	1660	180.00	9471	250.00	210	422.00	1004
113.00	445	181.00	4543	251.00	224	423.00	8458
117.00	45328	182.00	884	252.00	560	424.00	1545
118.00	3114	183.00	182	253.00	723	436.00	172
119.00	443	184.00	1432	255.00	226176	438.00	664
120.00	278	185.00	6660	256.00	31944	439.00	821
122.00	3529	186.00	55192	257.00	2749	441.00	26824
123.00	4995	187.00	16012	258.00	13641	442.00	152128
124.00	2203	188.00	1701	259.00	2391	443.00	30424
125.00	2244	189.00	4126	261.00	187	444.00	2609
127.00	153536	190.00	780	264.00	226		

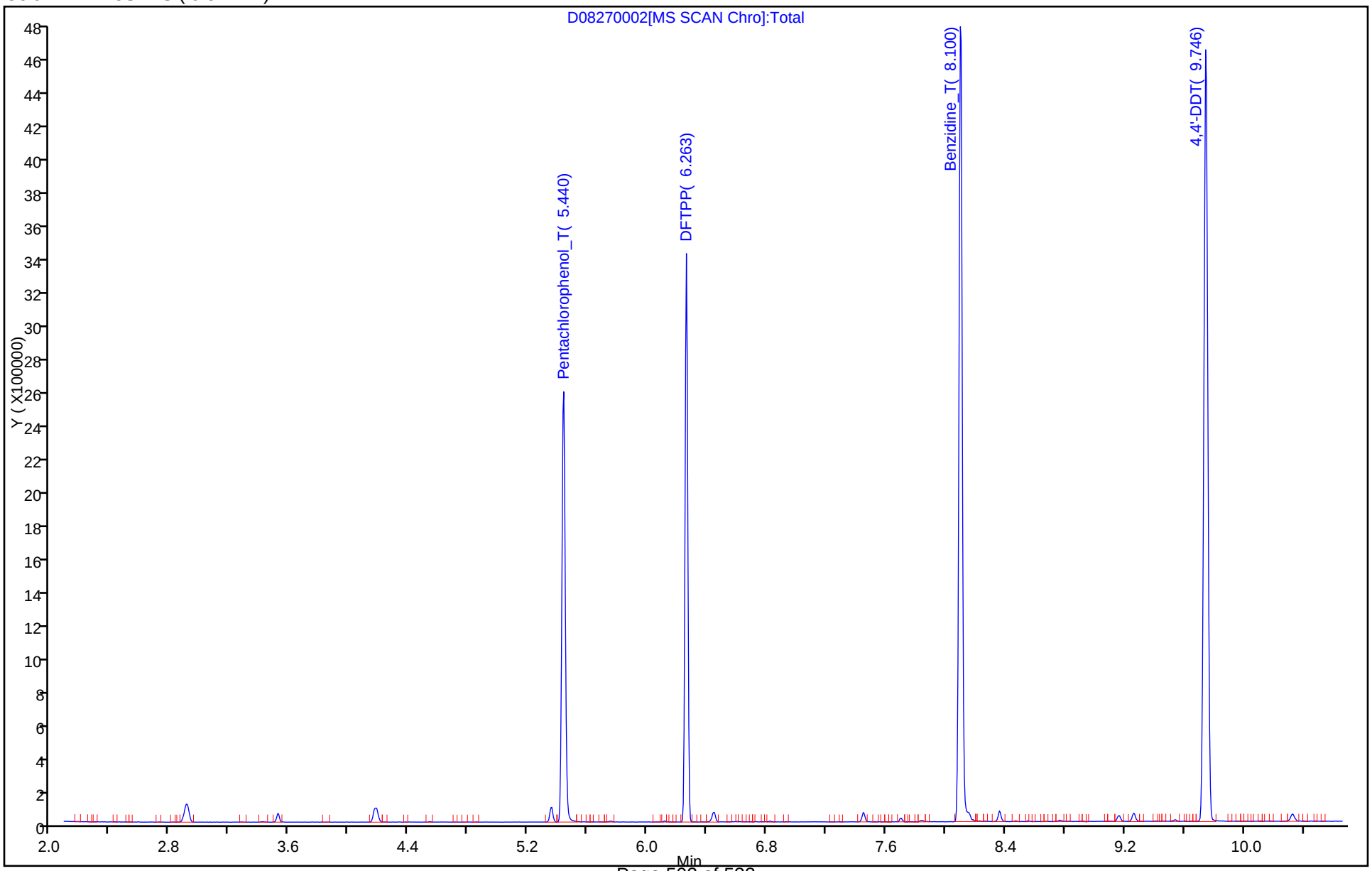
Report Date: 27-Aug-2015 10:14:46 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D

Injection Date:	27-Aug-2015 05:10:30	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)

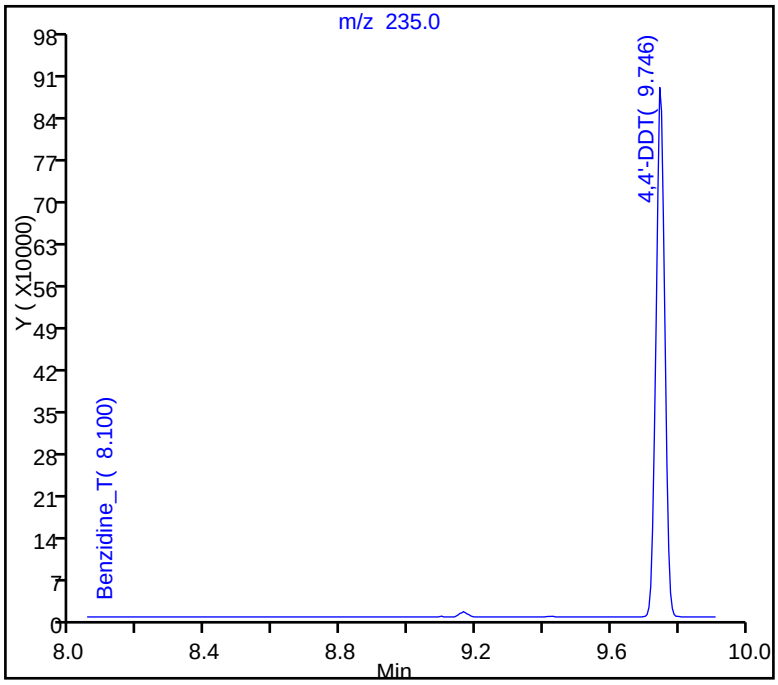


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D
Injection Date: 27-Aug-2015 05:10:30 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 = 1608718
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

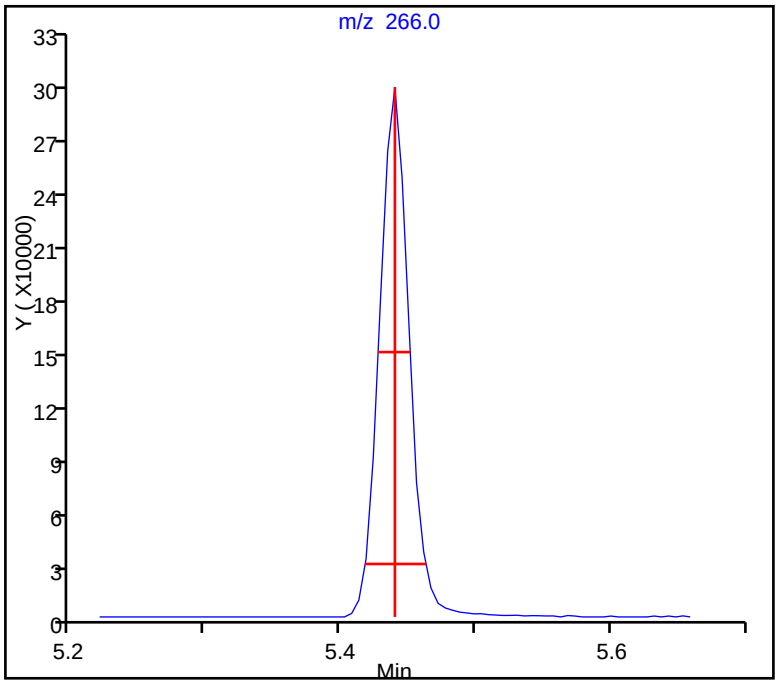
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D
Injection Date: 27-Aug-2015 05:10:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

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 = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

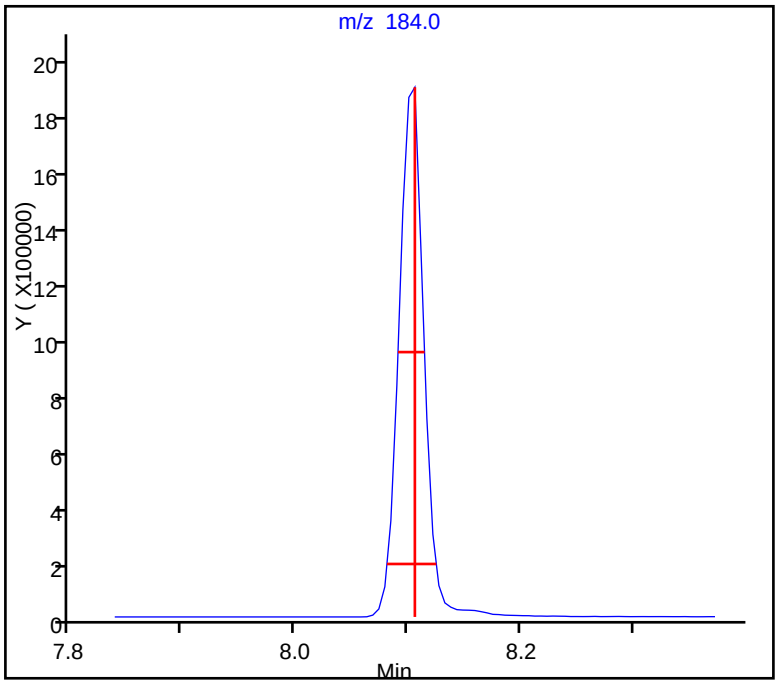
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D
Injection Date: 27-Aug-2015 05:10:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

191 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.019 (min.)
Front Width = 0.025 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 08-Oct-2015 10:52:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008890-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 09-Oct-2015 06:23:16 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: piccolinov Date: 08-Oct-2015 11:08:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.429	5.429	0.000	89	333144	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.084	8.084	0.000	99	2470533	NR	NR	
192 4,4'-DDE	246		9.001					ND	
193 4,4'-DDD	235		9.228					ND	
194 4,4'-DDT	235	9.703	9.703	0.000	97	1455489	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

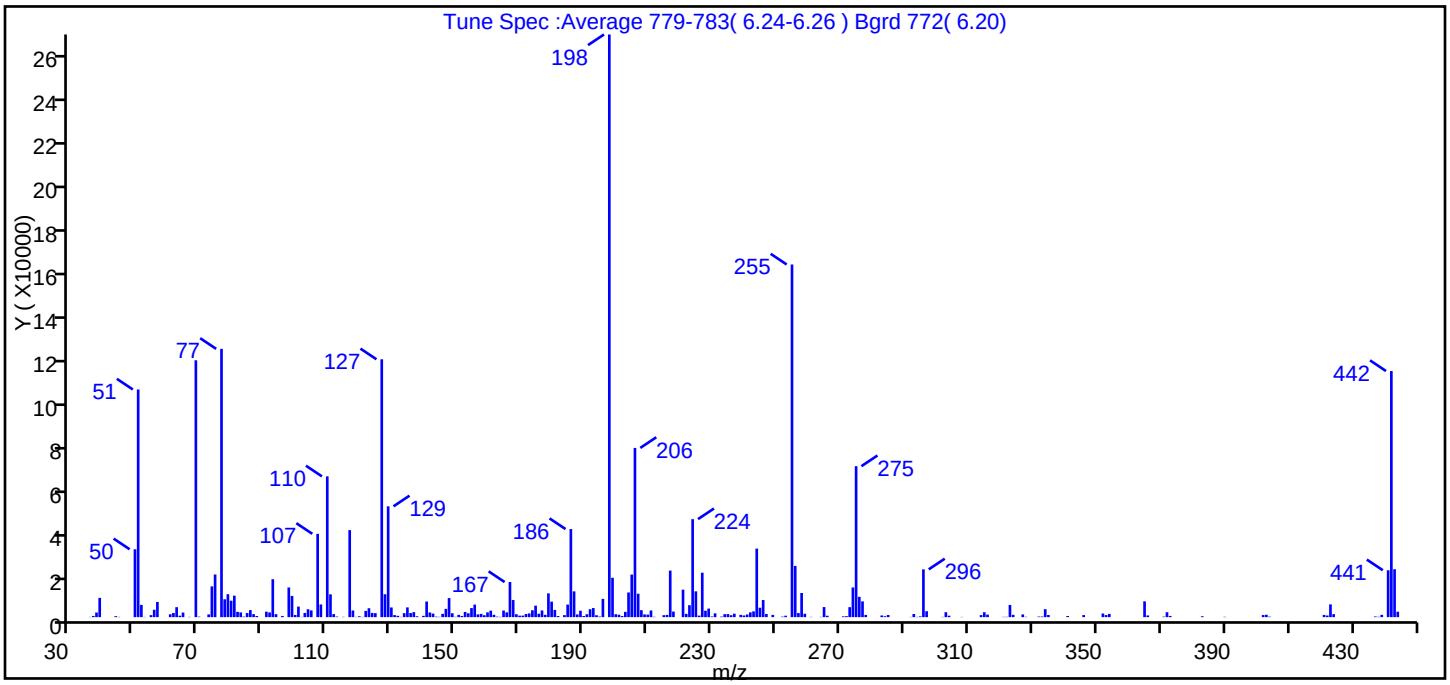
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080002.D
Injection Date: 08-Oct-2015 10:52:30 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	39.1
68	<2% of mass 69	0.0 (0.0)
69	Present	44.1
70	<2% of mass 69	0.1 (0.2)
127	40-60% of mass 198	44.3
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-30% of mass 198	25.9
365	>1% of mass 198	2.7
441	Present but less than mass 443	8.1 (97.9)
442	>40% of mass 198	42.2
443	17-23% of mass 442	8.2 (19.5)

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080002.D\BNA_CH732.rslt\spectra.d
Injection Date: 08-Oct-2015 10:52:30
Spectrum: Tune Spec :Average 779-783(6.24-6.26) Bgrd 772(6.20)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 249

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	104	124.00	1878	190.00	493	271.00	363
37.00	533	125.00	1794	191.00	1305	272.00	446
38.00	2072	127.00	115872	192.00	3556	273.00	4485
39.00	8648	128.00	10286	193.00	4091	274.00	13339
44.00	446	129.00	49792	194.00	868	275.00	67840
45.00	117	130.00	4350	195.00	278	276.00	9119
50.00	30496	131.00	918	196.00	8202	277.00	7092
51.00	102296	132.00	603	198.00	261824	278.00	1005
52.00	5504	133.00	113	199.00	17688	283.00	757
53.00	105	134.00	1782	200.00	1312	284.00	406
55.00	910	135.00	4377	201.00	1091	285.00	977
56.00	3324	136.00	1840	202.00	504	292.00	105
57.00	6829	137.00	2265	203.00	2366	293.00	1412
61.00	1293	138.00	387	204.00	11081	294.00	117
62.00	1862	140.00	585	205.00	19136	295.00	335
63.00	4476	141.00	7024	206.00	76040	296.00	21472
64.00	654	142.00	2089	207.00	10532	297.00	2664
65.00	2061	143.00	1604	208.00	3132	302.00	112
67.00	116	144.00	226	209.00	1233	303.00	2229
69.00	115424	145.00	133	210.00	1140	304.00	649
70.00	216	146.00	1481	211.00	3003	308.00	104
73.00	1225	147.00	3720	212.00	162	314.00	905
74.00	13812	148.00	8570	215.00	881	315.00	2199
75.00	19160	149.00	1753	216.00	970	316.00	1144
77.00	120552	150.00	149	217.00	20920	321.00	137
78.00	8026	151.00	1014	218.00	2503	322.00	144
79.00	10309	152.00	538	221.00	12350	323.00	5471
80.00	7384	153.00	2328	222.00	1481	324.00	1030
81.00	9652	154.00	1740	223.00	5366	327.00	1228
82.00	2370	155.00	4074	224.00	44032	328.00	143
83.00	2124	156.00	5627	225.00	11594	332.00	260
84.00	244	157.00	1234	226.00	696	333.00	282
85.00	1839	158.00	1454	227.00	19968	334.00	3591

Report Date: 09-Oct-2015 06:23:17 Chrom Revision: 2.2 08-Sep-2015 13:41:46
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080002.D\BNA_CH732.rslt\spectra.d
Injection Date: 08-Oct-2015 10:52:30
Spectrum: Tune Spec :Average 779-783(6.24-6.26) Bgrd 772(6.20)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 249

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	3171	159.00	854	228.00	2882	335.00	965
87.00	1348	160.00	2149	229.00	3848	341.00	513
88.00	522	161.00	2921	230.00	296	346.00	939
91.00	2451	162.00	1053	231.00	1712	352.00	1627
92.00	2114	163.00	223	233.00	259	353.00	939
93.00	17040	164.00	135	234.00	1344	354.00	1458
94.00	1342	165.00	2964	235.00	1371	365.00	7103
96.00	538	166.00	2153	236.00	867	366.00	760
98.00	13335	167.00	15773	237.00	1560	371.00	232
99.00	9528	168.00	7684	239.00	1014	372.00	2206
100.00	972	169.00	1310	240.00	750	373.00	543
101.00	4738	170.00	674	241.00	1188	383.00	413
102.00	109	171.00	698	242.00	2150	390.00	148
103.00	1899	172.00	1397	243.00	2607	402.00	945
104.00	3541	173.00	1664	244.00	30792	403.00	1062
105.00	3019	174.00	3098	245.00	4234	404.00	224
107.00	37432	175.00	5170	246.00	7697	421.00	988
108.00	5692	176.00	1535	247.00	1422	422.00	725
110.00	63256	177.00	3019	249.00	1005	423.00	5739
111.00	10252	178.00	1030	252.00	229	424.00	1342
112.00	1363	179.00	10680	253.00	650	437.00	314
113.00	263	180.00	6965	255.00	158464	438.00	165
115.00	130	181.00	3255	256.00	23008	439.00	1028
117.00	39112	182.00	509	257.00	1837	441.00	21080
118.00	2982	184.00	923	258.00	10850	442.00	110592
119.00	110	185.00	5642	259.00	1521	443.00	21536
120.00	392	186.00	39584	261.00	114	444.00	2436
121.00	117	187.00	11589	264.00	124		
122.00	2815	188.00	1225	265.00	4535		
123.00	4003	189.00	2876	266.00	637		

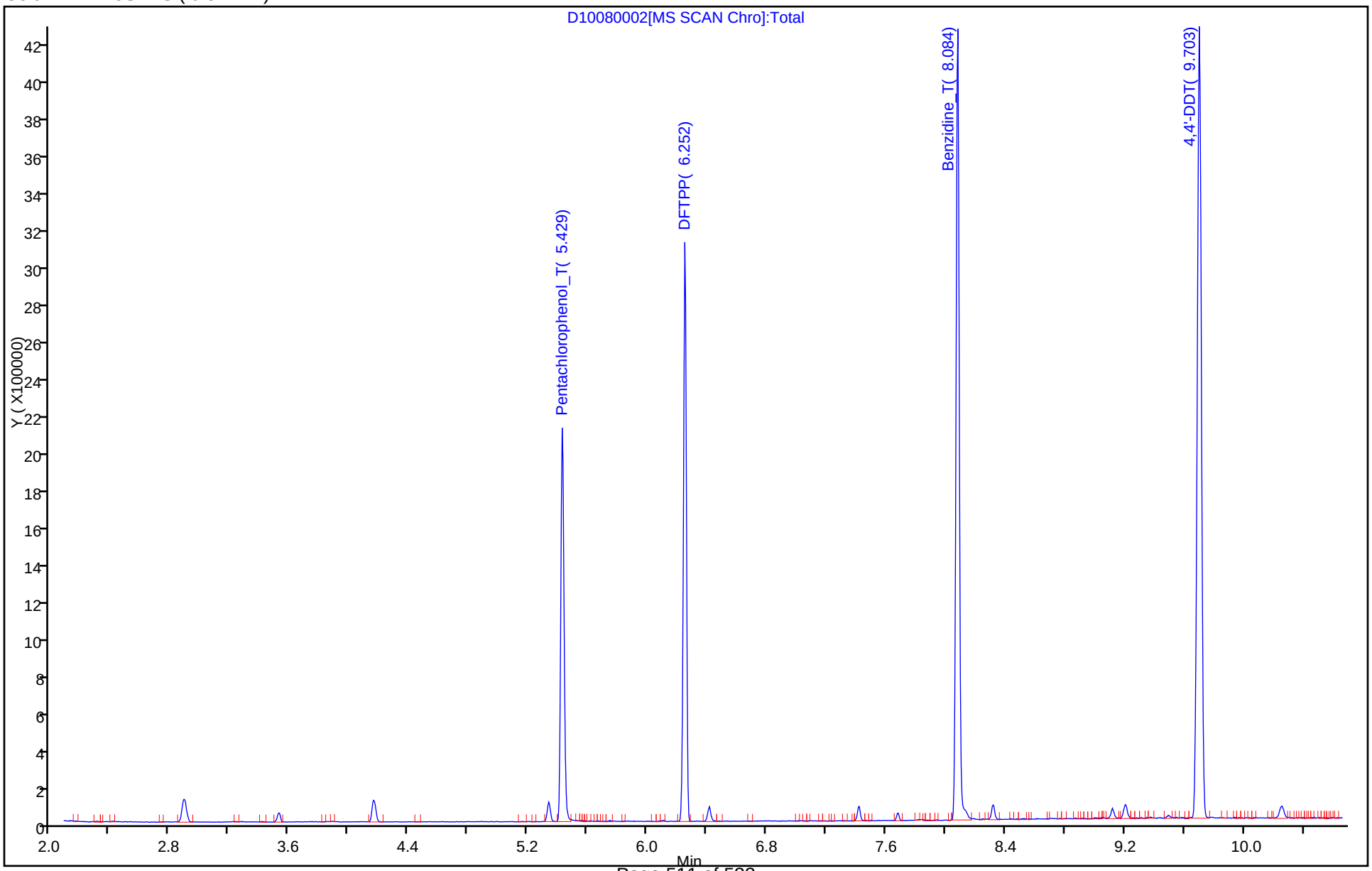
Report Date: 09-Oct-2015 06:23:17 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080002.D

Injection Date:	08-Oct-2015 10:52:30	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)

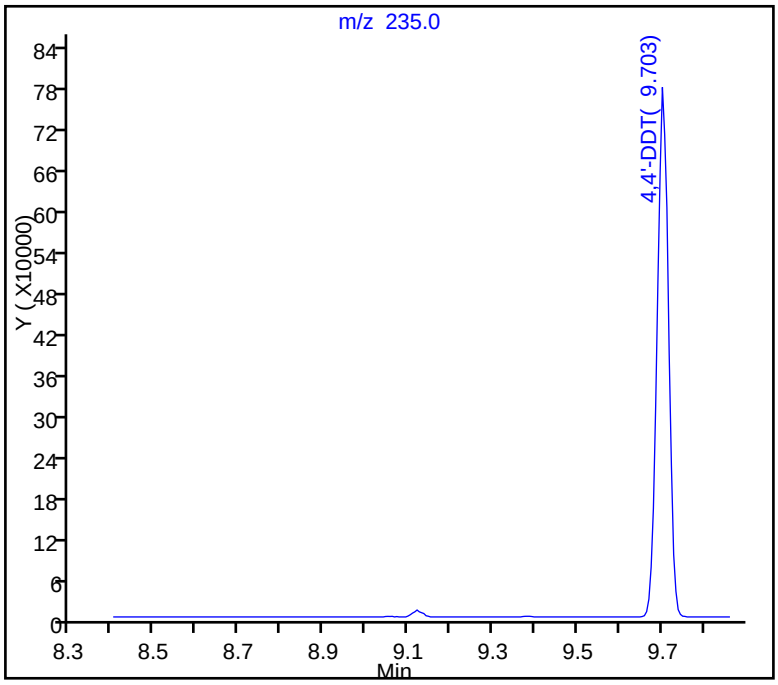


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080002.D
Injection Date: 08-Oct-2015 10:52:30 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 = 1455489
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

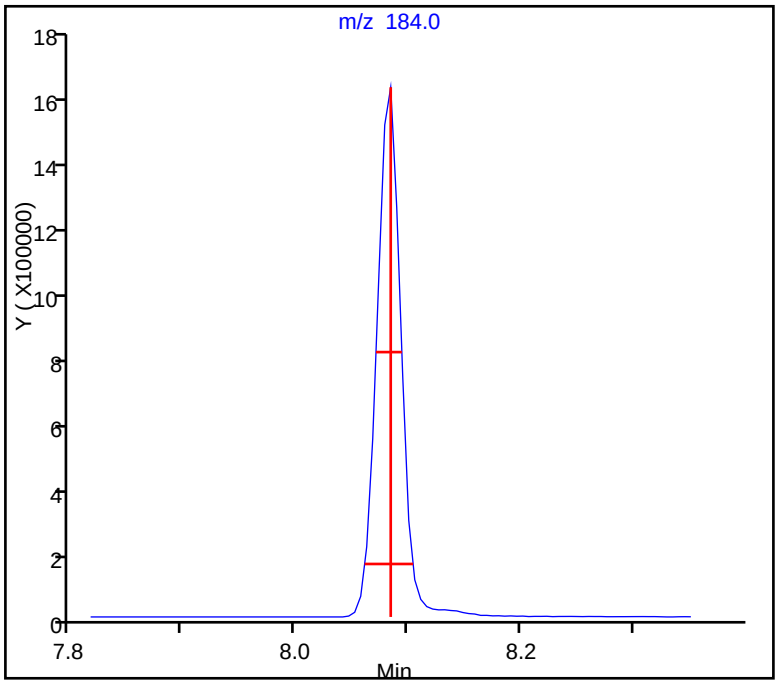
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080002.D
Injection Date: 08-Oct-2015 10:52:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

191 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.020 (min.)
Front Width = 0.023 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

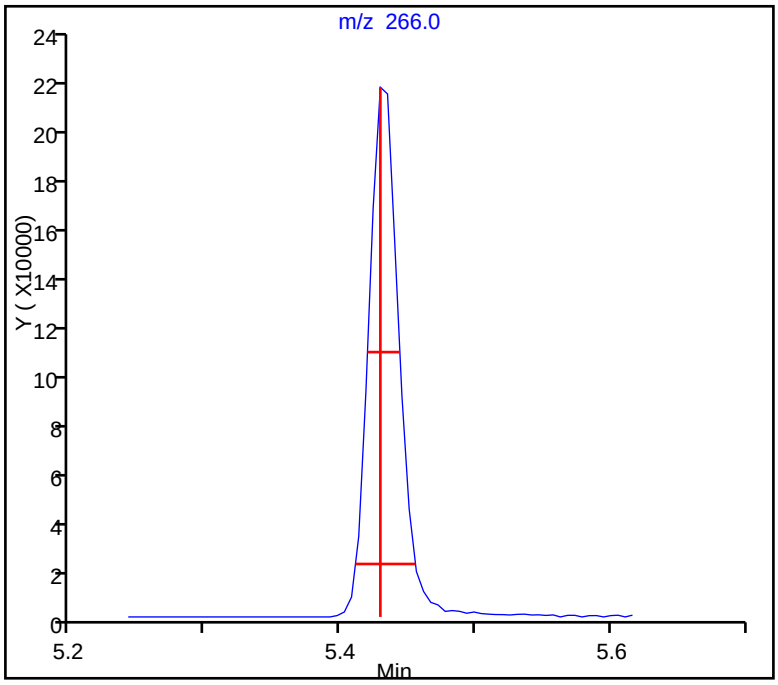
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080002.D
Injection Date: 08-Oct-2015 10:52:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

189 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.026 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-155703/1-A

Matrix: Water | Lab File ID: D10080004.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 10/02/2015 10:42

Sample wt/vol: 250(mL) | Date Analyzed: 10/08/2015 11:33

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.: 156303 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.0	U	2.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	65		28-109
367-12-4	2-Fluorophenol (Surr)	63		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	68		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	68		27-114
4165-62-2	Phenol-d5 (Surr)	64		25-105
1718-51-0	Terphenyl-d14 (Surr)	69		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080004.D
Lims ID: MB 180-155703/1-A
Client ID:
Sample Type: MB
Inject. Date: 08-Oct-2015 11:33:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008890-004
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 09-Oct-2015 06:23:18 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: piccolinov Date: 09-Oct-2015 05:11:38

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	6.132	6.137	-0.005	97	114537	8.00	8.00	
* 2 Naphthalene-d8	136	7.409	7.414	-0.005	100	443288	8.00	8.00	
* 3 Acenaphthene-d10	164	9.108	9.108	0.000	94	304324	8.00	8.00	
* 4 Phenanthrene-d10	188	10.534	10.529	0.005	97	587581	8.00	8.00	
* 5 Chrysene-d12	240	14.220	14.204	0.016	97	573879	8.00	8.00	
* 6 Perylene-d12	264	17.073	17.051	0.022	98	484852	8.00	8.00	
$ 7 2-Fluorophenol	112	4.690	4.695	-0.005	93	401604	40.0	25.2	
$ 8 Phenol-d5	99	5.758	5.763	-0.005	94	548385	40.0	25.4	
$ 9 Nitrobenzene-d5	82	6.688	6.693	-0.005	91	602106	40.0	27.2	
$ 10 2-Fluorobiphenyl	172	8.445	8.445	0.000	100	1472418	40.0	26.1	
$ 11 2,4,6-Tribromophenol	330	9.861	9.855	0.006	85	159436	40.0	27.3	
$ 12 Terphenyl-d14	244	12.425	12.409	0.016	99	1638297	40.0	27.5	
13 1,4-Dioxane	88		1.516					ND	
14 N-Nitrosodimethylamine	74		2.099					ND	
15 Pyridine	79		2.179					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		4.444					ND	
20 Acrylamide	71	4.695	4.597	0.099	26	2067			NC
22 Phenylmercaptan	110	4.684	5.000	-0.316	44	2456			NC
23 N-Nitrosodiethylamine	102		5.115					ND	
24 Ethyl methanesulfonate	79		5.256					ND	
25 Benzaldehyde	77		5.667					ND	
26 Phenol	94		5.779					ND	
27 Aniline	93		5.790					ND	
28 Pentachloroethane	167		5.806					ND	
29 Bis(2-chloroethyl)ether	93		5.859					ND	
30 2-Chlorophenol	128		5.918					ND	
31 n-Decane	43		5.982					ND	
32 1,3-Dichlorobenzene	146		6.079					ND	
33 1,4-Dichlorobenzene	146		6.153					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Benzyl alcohol	108		6.276					ND	
35 1,2-Dichlorobenzene	146		6.314					ND	
36 2-Methylphenol	108		6.394					ND	
37 Indene	116		6.399					ND	
38 2,2'-oxybis[1-chloropropan	45		6.415					ND	
39 N-Nitrosopyrrolidine	100		6.506					ND	
40 Acetophenone	105		6.538					ND	
41 N-Nitrosodi-n-propylamine	70		6.538					ND	
42 4-Methylphenol	108		6.549					ND	
43 N-Nitrosomorpholine	116		6.632					ND	
45 Hexachloroethane	117		6.661					ND	
44 2-Toluidine	106		6.664					ND	
46 Nitrobenzene	77		6.714					ND	
47 N-Nitrosopiperidine	114		6.926					ND	
48 Isophorone	82		6.949					ND	
49 2-Nitrophenol	139		7.029					ND	
50 2,4-Dimethylphenol	107		7.067					ND	
52 Benzoic acid	122		7.120					ND	
53 Bis(2-chloroethoxy)methane	93		7.152					ND	
51 o,o',o''-Triethylphosphoro	198		7.182					ND	
54 2,4-Dichlorophenol	162		7.270					ND	
55 alpha,alpha-Dimethyl phene	58		7.353					ND	
56 1,2,4-Trichlorobenzene	180		7.355					ND	
58 Naphthalene	128		7.430					ND	
59 4-Chloroaniline	127		7.473					ND	
60 2,6-Dichlorophenol	162		7.489					ND	
61 Hexachloropropene	213		7.526					ND	
62 Hexachlorobutadiene	225		7.558					ND	
64 Caprolactam	113		7.777					ND	
63 Quinoline	129		7.786					ND	
65 N-Nitrosodi-n-butylamine	84		7.818					ND	
66 p-Phenylene diamine	108		7.834					ND	
67 4-Chloro-3-methylphenol	107		7.932					ND	
68 Safrole, Total	162		8.026					ND	
69 2-Methylnaphthalene	142		8.103					ND	
71 1-Methylnaphthalene	142		8.199					ND	
72 Hexachlorocyclopentadiene	237		8.258					ND	
73 1,2,4,5-Tetrachlorobenzene	216		8.264					ND	
74 2,4,6-Trichlorophenol	196		8.365					ND	
75 2,4,5-Trichlorophenol	196		8.402					ND	
180 Isosafrole	162		8.514					ND	
76 1,1'-Biphenyl	154		8.541					ND	
77 2-Chloronaphthalene	162		8.573					ND	
78 1-Chloronaphthalene	162		8.616					ND	
79 2-Nitroaniline	65		8.653					ND	
80 1,4-Naphthoquinone	158	8.445	8.750	-0.305	44	2678			NC
81 1,4-Dinitrobenzene	168	8.445	8.769	-0.324	31	20789			NC
82 Dimethyl phthalate	163		8.814					ND	
83 1,3-Dinitrobenzene	168		8.846					ND	
84 2,6-Dinitrotoluene	165		8.873					ND	
85 Acenaphthylene	152		8.974					ND	
86 3-Nitroaniline	138		9.043					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
88 Acenaphthene	153		9.140					ND	
87 2,4-Dinitrophenol	184		9.140					ND	
89 4-Nitrophenol	109		9.182					ND	
91 2,4-Dinitrotoluene	165		9.263					ND	
92 Pentachlorobenzene	250		9.294					ND	
93 Dibenzofuran	168		9.300					ND	
94 1-Naphthylamine	143		9.340					ND	
95 2,3,5,6-Tetrachlorophenol	232		9.369					ND	
96 2,3,4,6-Tetrachlorophenol	232		9.412					ND	
97 2-Naphthylamine	143		9.444					ND	
98 Diethyl phthalate	149	9.476	9.476	0.000	96	19741		0.3878	
99 Hexadecane	57		9.482					ND	
102 N-Nitro-o-toluidine	152	9.861	9.586	0.275	41	3154		NC	
100 4-Chlorophenyl phenyl ethe	204		9.610					ND	
101 4-Nitroaniline	138		9.620					ND	
103 Fluorene	166		9.626					ND	
104 4,6-Dinitro-2-methylphenol	198		9.652					ND	
105 N-Nitrosodiphenylamine	169		9.717					ND	
90 1,2-Diphenylhydrazine	77		9.759					ND	
57 Azobenzene	77		9.759					ND	
107 1,3,5-Trinitrobenzene	213		9.896					ND	
108 Phenacetin	108		9.939					ND	
109 Phorate	121		9.944					ND	
110 4-Bromophenyl phenyl ether	248		10.075					ND	
111 Dimethoate	87		10.099					ND	
112 Hexachlorobenzene	284		10.160					ND	
113 Atrazine	200		10.197					ND	
114 4-Aminobiphenyl	169	9.861	10.265	-0.403	55	8136		NC	
117 Pronamide	173	9.861	10.297	-0.436	56	4450		NC	
118 Pentachloronitrobenzene	237		10.302					ND	
116 Pentachlorophenol	266		10.336					ND	
115 n-Octadecane	57		10.347					ND	
119 Disulfoton	88		10.419					ND	
120 Dinoseb	211		10.545					ND	
121 Phenanthrene	178		10.555					ND	
123 Hexachlorophene TIC	198		10.600					ND	
122 Anthracene	178		10.609					ND	
124 Carbazole	167		10.758					ND	
125 Methyl parathion	109		10.793					ND	
126 Di-n-butyl phthalate	149		11.079					ND	
127 Ethyl Parathion	109		11.189					ND	
128 4-Nitroquinoline-1-oxide	190		11.263					ND	
129 Methapyrilene	58		11.317					ND	
70 Diphenamid	167		11.522					ND	
106 Diphenylamine	167		11.620					ND	
130 Isodrin	193		11.821					ND	
131 Fluoranthene	202		11.923					ND	
132 Benzidine	184		12.062					ND	
134 1,2,3,4 -Tetrachlorobenzen	216	12.420	12.215	0.205	49	3655		NC	
133 Pyrene	202		12.243					ND	
135 p-Dimethylamino azobenzene	225	12.420	12.428	-0.008	42	11152		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		12.936					ND	
140 Kepone	272		13.030					ND	
138 Butyl benzyl phthalate	149		13.141					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		14.108					ND	
145 Bis(2-ethylhexyl) phthalat	149		14.161					ND	
146 Benzo[a]anthracene	228		14.183					ND	
147 Chrysene	228		14.252					ND	
148 Sulfotepp	97		14.530					ND	
149 6-Methylchrysene	242		14.907					ND	
150 Di-n-octyl phthalate	149		15.443					ND	
151 7,12-Dimethylbenz(a)anthra	256		16.266					ND	
152 Benzo[b]fluoranthene	252		16.288					ND	
153 Benzo[k]fluoranthene	252		16.336					ND	
219 Benzo[e]pyrene	252		16.838					ND	
154 Benzo[a]pyrene	252		16.939					ND	
155 3-Methylcholanthrene	268	17.906	17.524	0.382	1	695			NC
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		19.322					ND	
158 Dibenz(a,h)anthracene	278		19.349					ND	
159 Benzo[g,h,i]perylene	276		19.968					ND	
212 2,3,7,8-TCDD TIC	1		0.000					ND	
178 Trifluralin	306		0.000					ND	
169 Octachlorostyrene	308		0.000					ND	
173 Octachlorocyclopentene	307		0.000					ND	
177 1,2,3,4-Tetrahydronaphthal	104		0.000					ND	
215 1-Phenyl-1-(2,4-dimethylph	1		0.000					ND	
165 Benzotrichloride	159		0.000					ND	
182 4-Chlorophenol	128		0.000					ND	
176 Dimethylformamide	73		0.000					ND	
170 4-tert-Octylphenol	135		0.000					ND	
181 4-Chlorobenzoic Acid	139		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	
185 4-Nitrobiphenyl	199		0.000					ND	
179 2,5-Dichlorophenol	162		0.000					ND	
166 4-Chloro-3-nitro-alpha,alp	179		0.000					ND	
160 n,n'-Dimethylaniline	120		0.000					ND	
188 2-Bromonaphthalene	127		0.000					ND	
172 Carbaryl	144		0.000					ND	
171 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
162 3-Chlorobenzoic Acid	139		0.000					ND	
184 Diallate Peak 1	86		0.000					ND	
164 Aramite Peak 2	185		0.000					ND	
168 Aramite Peak 1	185		0.000					ND	
174 2-Chlorobenzoic Acid	139		0.000					ND	
167 Phthalic anhydride	104		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
187 1,2-Dibromo-3-Chloropropan	157		0.000					ND	
161 4-Methyl-1-cyclohexanemeth	97		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	
214 1-Phenyl-1-(4-methylphenyl	1		0.000					ND	
189 Pentachlorophenol_T	266		5.429					ND	
191 Benzidine_T	184		8.084					ND	
192 4,4'-DDE	246		9.001					ND	
193 4,4'-DDD	235		9.228					ND	
194 4,4'-DDT	235		9.703					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 216 1-Phenyl-1-(2,4-dimethylph	195		9.600					ND	
T 217 1-Phenyl-1-(4-methylphenyl	181		9.700					ND	
T 221 Phenyl ether TIC	170	9.861	11.520	-1.639	0	24190		0.6359	
T 200 Quinoline TIC	129		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

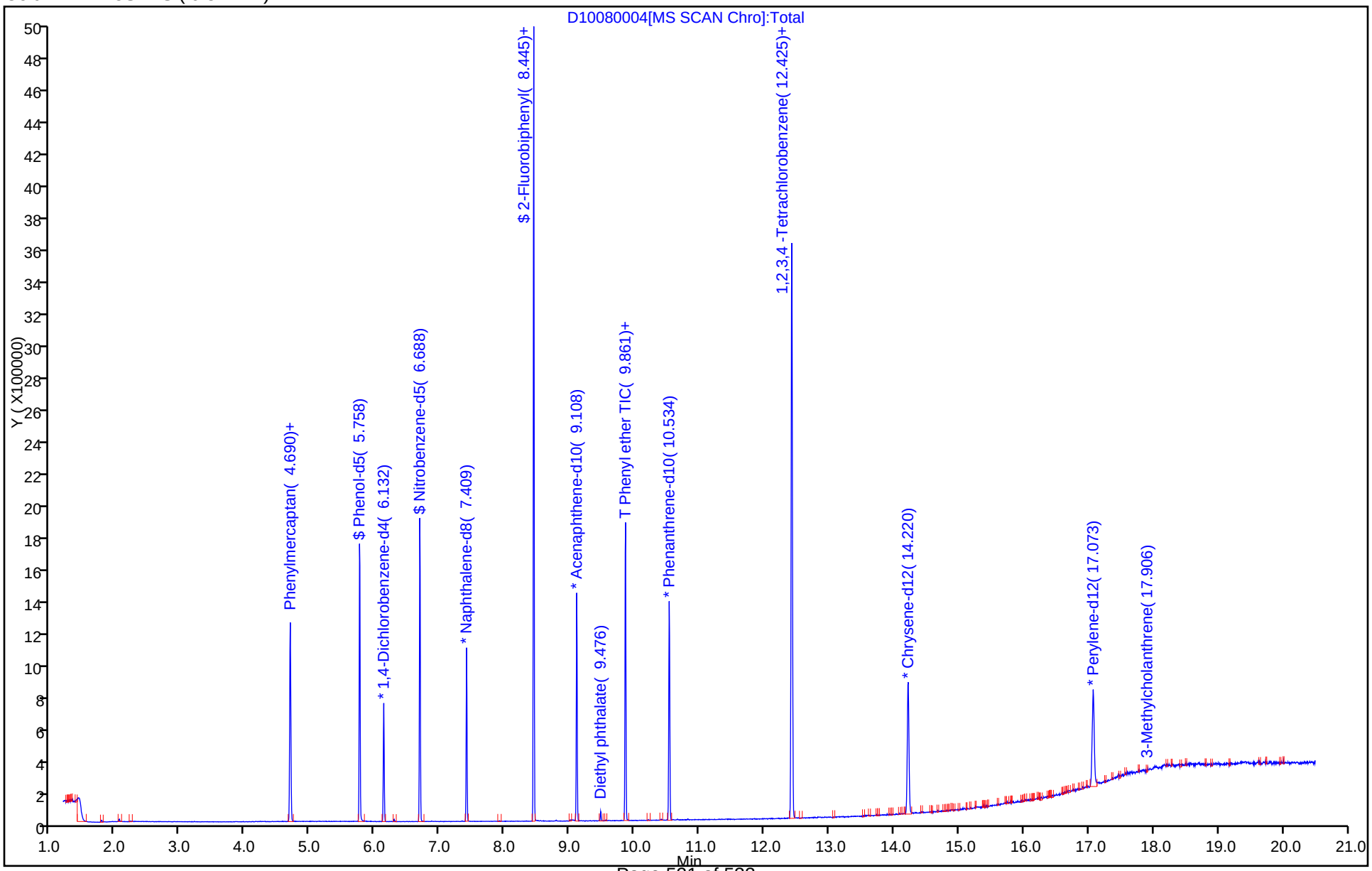
Report Date: 09-Oct-2015 06:23:23 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080004.D

Injection Date:	08-Oct-2015 11:33:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	MB 180-155703/1-A			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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48259-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155703/2-A

Matrix: Water | Lab File ID: D10080007.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 10/02/2015 10:42

Sample wt/vol: 250(mL) | Date Analyzed: 10/08/2015 12:52

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.: 156303 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	11.8		2.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	64		28-109
367-12-4	2-Fluorophenol (Surr)	62		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	68		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	67		27-114
4165-62-2	Phenol-d5 (Surr)	62		25-105
1718-51-0	Terphenyl-d14 (Surr)	66		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080007.D
Lims ID: LCS 180-155703/2-A
Client ID:
Sample Type: LCS
Inject. Date: 08-Oct-2015 12:52:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008890-007
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 09-Oct-2015 06:23:18 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: piccolinov Date: 09-Oct-2015 06:09:10

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	6.132	6.137	-0.005	97	104269	8.00	8.00	
* 2 Naphthalene-d8	136	7.419	7.414	0.005	99	411203	8.00	8.00	
* 3 Acenaphthene-d10	164	9.118	9.108	0.010	93	277327	8.00	8.00	
* 4 Phenanthrene-d10	188	10.550	10.529	0.021	97	536810	8.00	8.00	
* 5 Chrysene-d12	240	14.247	14.204	0.043	96	565197	8.00	8.00	
* 6 Perylene-d12	264	17.105	17.051	0.054	97	456511	8.00	8.00	
$ 7 2-Fluorophenol	112	4.679	4.695	-0.016	92	359695	40.0	24.8	
$ 8 Phenol-d5	99	5.758	5.763	-0.005	93	486926	40.0	24.8	
$ 9 Nitrobenzene-d5	82	6.693	6.693	0.000	90	550030	40.0	26.8	
$ 10 2-Fluorobiphenyl	172	8.456	8.445	0.011	100	1315992	40.0	25.6	
$ 11 2,4,6-Tribromophenol	330	9.872	9.855	0.017	84	145367	40.0	27.3	
$ 12 Terphenyl-d14	244	12.441	12.409	0.032	99	1553066	40.0	26.4	
13 1,4-Dioxane	88	1.484	1.516	-0.032	91	129476	40.0	23.5	
14 N-Nitrosodimethylamine	74	2.061	2.099	-0.038	87	170916	40.0	26.5	
15 Pyridine	79	2.136	2.179	-0.043	95	340236	40.0	27.5	
25 Benzaldehyde	77	5.662	5.667	-0.005	92	221610	40.0	21.3	
26 Phenol	94	5.774	5.779	-0.005	96	528964	40.0	23.3	
27 Aniline	93	5.785	5.790	-0.005	97	590993	40.0	23.3	
29 Bis(2-chloroethyl)ether	93	5.854	5.859	-0.005	94	352218	40.0	23.5	
30 2-Chlorophenol	128	5.913	5.918	-0.005	96	421797	40.0	24.6	
31 n-Decane	43	5.982	5.982	0.000	83	349908	40.0	29.0	
32 1,3-Dichlorobenzene	146	6.073	6.079	-0.006	95	517505	40.0	23.5	
33 1,4-Dichlorobenzene	146	6.148	6.153	-0.005	91	530895	40.0	23.4	
34 Benzyl alcohol	108	6.276	6.276	0.000	88	238926	40.0	23.1	
35 1,2-Dichlorobenzene	146	6.308	6.314	-0.006	94	513186	40.0	23.8	
36 2-Methylphenol	108	6.394	6.394	0.000	95	399834	40.0	25.2	
37 Indene	116	6.399	6.399	0.000	88	763489	40.0	23.3	
38 2,2'-oxybis[1-chloropropan	45	6.420	6.415	0.005	85	415363	40.0	28.6	
40 Acetophenone	105	6.543	6.538	0.005	88	610926	40.0	23.4	
41 N-Nitrosodi-n-propylamine	70	6.543	6.538	0.005	84	322675	40.0	26.1	
42 4-Methylphenol	108	6.549	6.549	0.000	94	419964	40.0	25.2	
45 Hexachloroethane	117	6.661	6.661	0.000	89	227960	40.0	24.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
46 Nitrobenzene	77	6.714	6.714	0.000	89	534910	40.0	25.7	
48 Isophorone	82	6.949	6.949	0.000	99	880723	40.0	26.3	
49 2-Nitrophenol	139	7.035	7.029	0.006	95	256964	40.0	26.4	
50 2,4-Dimethylphenol	107	7.072	7.067	0.005	99	514654	40.0	25.0	
52 Benzoic acid	122	7.147	7.120	0.027	88	196169	40.0	21.4	
53 Bis(2-chloroethoxy)methane	93	7.158	7.152	0.006	97	495395	40.0	23.9	
54 2,4-Dichlorophenol	162	7.275	7.270	0.005	95	435410	40.0	26.0	
56 1,2,4-Trichlorobenzene	180	7.361	7.355	0.006	94	548658	40.0	25.4	
58 Naphthalene	128	7.435	7.430	0.005	99	1433991	40.0	24.0	
59 4-Chloroaniline	127	7.478	7.473	0.005	93	551689	40.0	23.6	
60 2,6-Dichlorophenol	162	7.494	7.489	0.005	96	431619	40.0	25.9	
62 Hexachlorobutadiene	225	7.564	7.558	0.006	93	404287	40.0	26.1	
64 Caprolactam	113	7.793	7.777	0.016	79	117703	40.0	25.0	
67 4-Chloro-3-methylphenol	107	7.943	7.932	0.011	94	471011	40.0	26.4	
69 2-Methylnaphthalene	142	8.109	8.103	0.006	91	1059075	40.0	24.3	
71 1-Methylnaphthalene	142	8.205	8.199	0.006	91	924352	40.0	24.4	
72 Hexachlorocyclopentadiene	237	8.269	8.258	0.011	96	456188	40.0	26.6	
73 1,2,4,5-Tetrachlorobenzene	216	8.274	8.264	0.010	98	611092	40.0	23.7	
74 2,4,6-Trichlorophenol	196	8.376	8.365	0.011	94	383569	40.0	28.5	
75 2,4,5-Trichlorophenol	196	8.413	8.402	0.011	93	376887	40.0	26.2	
76 1,1'-Biphenyl	154	8.552	8.541	0.011	95	1346180	40.0	24.5	
77 2-Chloronaphthalene	162	8.584	8.573	0.011	98	1030389	40.0	24.8	
79 2-Nitroaniline	65	8.664	8.653	0.011	78	336670	40.0	29.1	
82 Dimethyl phthalate	163	8.824	8.814	0.010	98	1183995	40.0	26.0	
83 1,3-Dinitrobenzene	168	8.856	8.846	0.010	84	181364	40.0	25.8	
84 2,6-Dinitrotoluene	165	8.889	8.873	0.016	93	271738	40.0	26.7	
85 Acenaphthylene	152	8.985	8.974	0.011	98	1691442	40.0	25.8	
86 3-Nitroaniline	138	9.054	9.043	0.011	90	264152	40.0	25.8	
88 Acenaphthene	153	9.150	9.140	0.010	89	1106290	40.0	24.7	
87 2,4-Dinitrophenol	184	9.150	9.140	0.010	68	327722	80.0	42.2	
89 4-Nitrophenol	109	9.198	9.182	0.016	93	412532	80.0	56.0	
91 2,4-Dinitrotoluene	165	9.273	9.263	0.011	91	372717	40.0	26.0	
93 Dibenzofuran	168	9.316	9.300	0.016	96	1603376	40.0	24.8	
96 2,3,4,6-Tetrachlorophenol	232	9.428	9.412	0.016	74	346160	40.0	25.2	
98 Diethyl phthalate	149	9.492	9.476	0.016	97	1206134	40.0	26.0	
99 Hexadecane	57	9.498	9.482	0.016	98	683948	40.0	28.6	
100 4-Chlorophenyl phenyl ethe	204	9.626	9.610	0.016	93	693541	40.0	24.8	
101 4-Nitroaniline	138	9.636	9.620	0.016	77	278166	40.0	24.5	
103 Fluorene	166	9.642	9.626	0.016	93	1321989	40.0	25.0	
104 4,6-Dinitro-2-methylphenol	198	9.669	9.652	0.017	85	471073	80.0	49.0	
105 N-Nitrosodiphenylamine	169	9.733	9.717	0.016	63	1933285	80.0	49.2	
90 1,2-Diphenylhydrazine	77	9.775	9.759	0.016	100	1406273	40.0	26.4	
57 Azobenzene	77	9.775	9.759	0.016	100	1406273	40.0	26.4	
110 4-Bromophenyl phenyl ether	248	10.091	10.075	0.016	68	398617	40.0	25.3	
112 Hexachlorobenzene	284	10.176	10.160	0.016	92	372313	40.0	24.8	
113 Atrazine	200	10.213	10.197	0.016	94	371884	40.0	24.4	
116 Pentachlorophenol	266	10.352	10.336	0.016	91	430852	80.0	42.4	
115 n-Octadecane	57	10.363	10.347	0.016	97	762687	40.0	29.2	
121 Phenanthrene	178	10.571	10.555	0.016	97	2025512	40.0	24.2	
122 Anthracene	178	10.630	10.609	0.021	97	2047064	40.0	24.9	
124 Carbazole	167	10.774	10.758	0.016	96	1785500	40.0	25.1	
126 Di-n-butyl phthalate	149	11.100	11.079	0.021	100	2100259	40.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
131 Fluoranthene	202	11.950	11.923	0.027	97	2322998	40.0	25.4	
132 Benzidine	184	12.089	12.062	0.027	99	377247	40.0	11.4	
133 Pyrene	202	12.270	12.243	0.027	98	2356099	40.0	25.7	
138 Butyl benzyl phthalate	149	13.178	13.141	0.037	98	876791	40.0	28.5	
144 3,3'-Dichlorobenzidine	252	14.156	14.108	0.048	74	608935	40.0	20.8	
145 Bis(2-ethylhexyl) phthalat	149	14.209	14.161	0.048	96	1237590	40.0	26.3	
146 Benzo[a]anthracene	228	14.225	14.183	0.042	98	2187400	40.0	23.9	
147 Chrysene	228	14.295	14.252	0.043	96	2070399	40.0	24.2	
150 Di-n-octyl phthalate	149	15.497	15.443	0.054	100	1950828	40.0	26.3	
152 Benzo[b]fluoranthene	252	16.341	16.288	0.053	96	1961669	40.0	24.7	
153 Benzo[k]fluoranthene	252	16.394	16.336	0.058	99	1970812	40.0	24.8	
154 Benzo[a]pyrene	252	16.993	16.939	0.054	77	1846572	40.0	25.1	
157 Indeno[1,2,3-cd]pyrene	276	19.402	19.322	0.080	99	1973860	40.0	25.7	
158 Dibenz(a,h)anthracene	278	19.439	19.349	0.090	90	1605046	40.0	25.8	
159 Benzo[g,h,i]perylene	276	20.065	19.968	0.096	98	1678463	40.0	25.7	
S 197 Methyl Phenols,Total	108				0		80.0	50.4	
S 199 Total Cresols	108				0		80.0	50.4	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

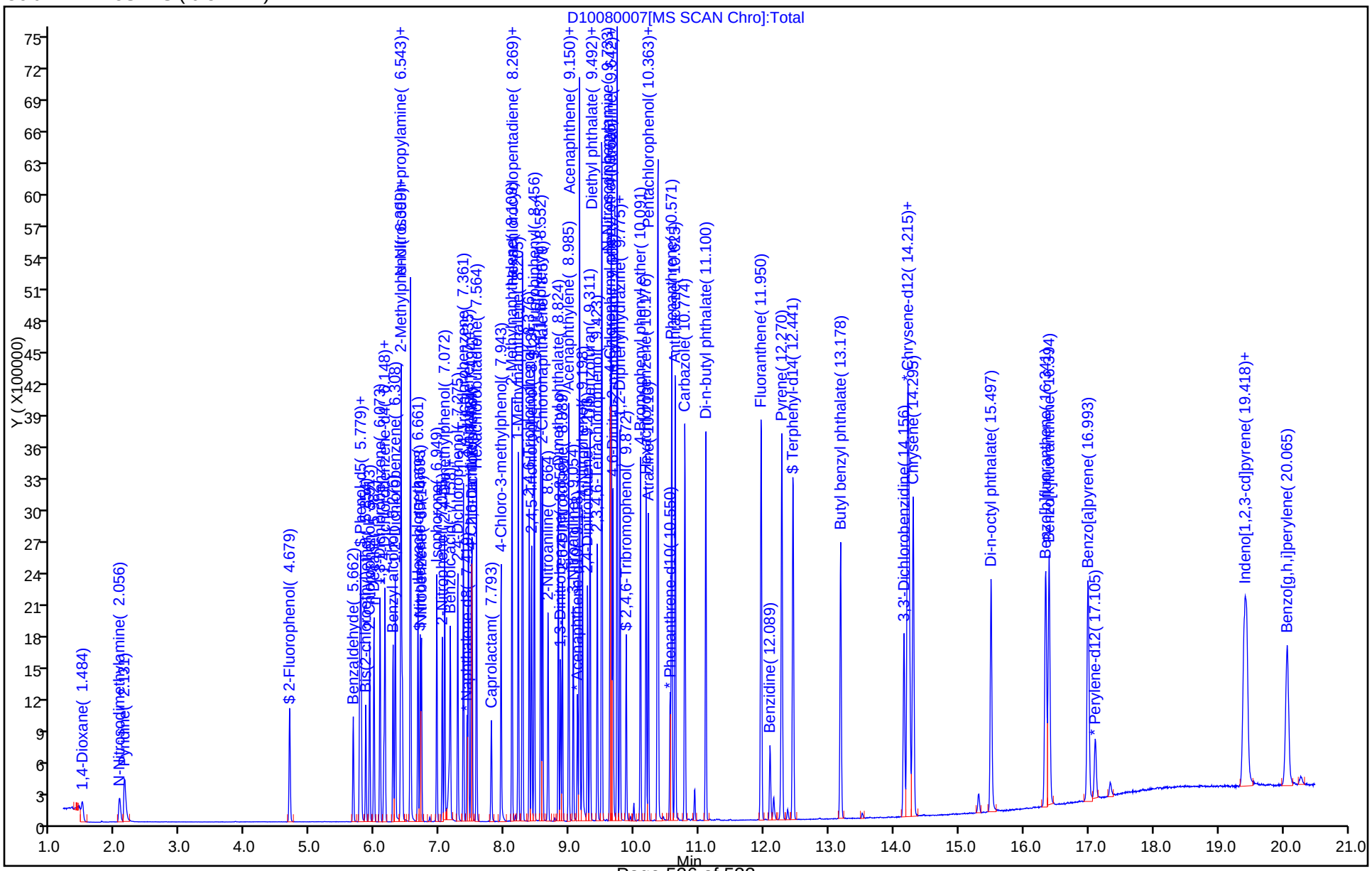
Report Date: 09-Oct-2015 06:23:34 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151008-8890.b\D10080007.D

Injection Date:	08-Oct-2015 12:52:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	LCS 180-155703/2-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)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CH732 Start Date: 08/27/2015 05:10

Analysis Batch Number: 151940 End Date: 08/27/2015 10:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-151940/2		08/27/2015 05:10	1	D08270002.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/3		08/27/2015 05:25	1	D08270003.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/4		08/27/2015 05:51	1	D08270004.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/5		08/27/2015 06:18	1	D08270005.D	Rxi-5SilMS 0.32(mm)
ICIS 180-151940/6		08/27/2015 06:44	1	D08270006.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/7		08/27/2015 07:23	1	D08270007.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/8		08/27/2015 07:49	1	D08270008.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/9		08/27/2015 08:16	1	D08270009.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/10		08/27/2015 08:42	1	D08270010.D	Rxi-5SilMS 0.32(mm)
ICV 180-151940/11		08/27/2015 09:27	1		Rxi-5SilMS 0.32(mm)
ICV 180-151940/12		08/27/2015 09:53	1		Rxi-5SilMS 0.32(mm)
ICV 180-151940/13		08/27/2015 10:19	1		Rxi-5SilMS 0.32(mm)
ICV 180-151940/14		08/27/2015 10:46	1		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Instrument ID: CH732 Start Date: 10/08/2015 10:52

Analysis Batch Number: 156303 End Date: 10/08/2015 22:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-156303/2		10/08/2015 10:52	1	D10080002.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-156303/3		10/08/2015 11:07	1	D10080003.D	Rxi-5SilMS 0.32(mm)
MB 180-155703/1-A		10/08/2015 11:33	1	D10080004.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/08/2015 12:25	1		Rxi-5SilMS 0.32(mm)
LCS 180-155703/2-A		10/08/2015 12:52	1	D10080007.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/08/2015 14:10	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/08/2015 14:36	1		Rxi-5SilMS 0.32(mm)
180-48259-1	HD-MW-113-0/1-0	10/08/2015 18:06	1	D10080019.D	Rxi-5SilMS 0.32(mm)
180-48259-2	HD-MW-127-0/1-0	10/08/2015 18:32	1	D10080020.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/08/2015 22:02	10		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48259-1

SDG No.:

Batch Number: 155703 Batch Start Date: 10/02/15 13:55 Batch Analyst: Trout, Bill

Batch Method: 3520C Batch End Date: 10/03/15 08:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	FirstAdjustpH	OPLVISPKMIX1i 00044	OPQL8270SURi 00034
MB 180-155703/1		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2		25 uL
LCS 180-155703/2		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2	25 uL	25 uL
180-48259-A-1	HD-MW-113-0/1-0	3520C, 8270D LL	T	7 SU	270 mL	0.25 mL	2		25 uL
180-48259-A-2	HD-MW-127-0/1-0	3520C, 8270D LL	T	7 SU	270 mL	0.25 mL	2		25 uL

Batch Notes	
Acid used for pH adjustment	1:1 Sulfuric acid
Acid used for pH adjust Lot #	1654713
Person's name who did the concentration	cdm
Time the first extraction ended 24hr	0810
Time the first extraction started 24 hr	1355
N-evap #	1
Na2SO4 Lot Number	1648567
pH Paper Lot Number	Ph paper HC554612
Prep Solvent Lot #	1728829
Prep Solvent Name	Methylene chloride
Prep Solvent Volume Used	100 mL
Person's name who did the prep	BT
Sufficient volume for MS/MSD?	Yes
Uncorrected N-evap Temperature	26 Degrees C
Uncorrected Temperature	75 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Pittsburgh
301 Alpha Drive

Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2470

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jennifer S. Reese	Site Contact: Jennifer S. Reese	DateSubmitted: 9/29/2015	COC No: TAP2015092901
Groundwater Sciences Corporation	Tel/Fax: 717-901-8181 / (717) 657-1611	Lab Contact: Carrie Gamber	Carrier: FEDEX	1 of 1 COCs
2601 Market Place St. Suite 310	Analysis Turnaround Time			Job No. 10012.27
Harrisburg, PA 17110	Calendar (C) or Work Days (W) _____			
(717) 901-8180 Phone	TAT if different from Below: Standard			Container No. 1
(717) 657-1611 FAX	■ 2 weeks			SDG No.
Project Name: 2015 Comprehensive Event	☐ 1 week			
Site: Harley-Davidson, York PA	☐ 5 days			
Quote # 18000557	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	VOCs (8260C)	Total CR 6+ (SW846 7196A)	Dissolved Cr 6+ (SW846 7196A)	1,4-Dioxane (SW846 8270D LL)	Sample Specific Notes:
HD-MW-113-0/1-0	9/29/15	12:55	Groundwater	Water	5	X			X	
HD-MW-127-0/1-0	9/29/15	15:32	Groundwater	Water	5	X			X	
HD-MW-22-0/1-0	9/29/15	10:00	Groundwater	Water	3	X				
HD-MW-15-0/1-0	9/29/15	8:35	Groundwater	Water	3	X				
HD-QC11-0/1-2	9/29/15	12:00	Trip Blank	Water	2	X				
Number of Containers						3	1	1	2	
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Unpreserved 7=Zinc Acetate & NaOH						2	1	1	1	
Field Filter						N	N	Y	N	

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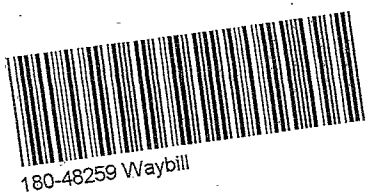
Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ ve For _____ Months

Special Instructions/QC Requirements & Comments: **CLP Like Deliverables**

Relinquished by (Print and Sign):	Company: GSC	Date/Time: 9/29/15 1545	Received by:	Company: TAKOP	Date/Time: 9/29/15 1545
Relinquished by:	Company: TAP	Date/Time: 9/29/15 1740	Received by:	Company: TAP	Date/Time: 1-30-15
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9:10



180-48259 Waybill

ORIGIN ID:KPDA (610) 337-9992
SAMPLE RECEIPT
TEST AMERICA
1008 WEST 9TH AVE
KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DAT
ACTWGT:
CAD: 84

BILL RE

TO SAMPLE RECEIPT
TEST AMERICA - PITTSBURGH
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058 REF: DEPT:
INV:
PO:

WED -
STAND

TRK# 0201 7746 2529 7352

EV AGCA

Uncorrected temp 2.1 °C
Thermometer ID #7
CF 0.0 Initials MAL

PT-WI-SR-001 effective 7/26/13

E: 29SEP15
43.00 LB
90299/INET3670

CIPIENT

FedEx
Express

SEP 3:00P
OVERNIGHT

15238
PA-US PIT

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-48259-1

Login Number: 48259
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.	True	
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	