TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 180-47935-1

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 11:40 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.
^c	CCV Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: 180-47935-1 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 09/19/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.3 C.

VOLATILES
The following samples was diluted to bring the concentration of target analytes within the calibration range: HD-MW-129-0/1-0 (180-47935-1), HD-MW-131-0/1-0 (180-47935-2), HD-MW-132-0/1-0 (180-47935-3) and HD-MW-114-0/1-0 (180-47935-5). Elevated reporting limits (RLs) are provided.

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: 180-47935-1

Client Sample ID: HD-MW-129-0/1-0 — Lab Sample ID: 180-47935-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	150		20	4.7	ug/L	20		8260C	Total/NA
Trichloroethene	2900	E	20	2.9	ug/L	20		8260C	Total/NA
Tetrachloroethene	340		20	3.0	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene - DL	130	J	200	47	ug/L	200		8260C	Total/NA
Trichloroethene - DL	3500		200	29	ug/L	200		8260C	Total/NA
Tetrachloroethene - DL	370		200	30	ug/L	200		8260C	Total/NA
1,4-Dioxane	2.1		1.9	0.049	ug/L	1		8270D LL	Total/NA

Client Sample ID: HD-MW-131-0/1-0 — Lab Sample ID: 180-47935-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.4	J	4.0	1.2	ug/L	4		8260C	Total/NA
1,1-Dichloroethane	4.2		4.0	0.47	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	100		4.0	0.95	ug/L	4		8260C	Total/NA
Chloroform	11		4.0	0.68	ug/L	4		8260C	Total/NA
Trichloroethene	540	E	4.0	0.57	ug/L	4		8260C	Total/NA
1,1,2-Trichloroethane	1.6	J	4.0	0.81	ug/L	4		8260C	Total/NA
Tetrachloroethene	6.2		4.0	0.59	ug/L	4		8260C	Total/NA
1,1-Dichloroethane - DL	4.9	J	40	4.7	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene - DL	100		40	9.5	ug/L	40		8260C	Total/NA
Chloroform - DL	12	J	40	6.8	ug/L	40		8260C	Total/NA
Trichloroethene - DL	640		40	5.7	ug/L	40		8260C	Total/NA
Tetrachloroethene - DL	6.6	J	40	5.9	ug/L	40		8260C	Total/NA
1,4-Dioxane	6.8		1.9	0.049	ug/L	1		8270D LL	Total/NA

Client Sample ID: HD-MW-132-0/1-0 — Lab Sample ID: 180-47935-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	15		2.5	0.74	ug/L	2.5		8260C	Total/NA
trans-1,2-Dichloroethene	2.8		2.5	0.42	ug/L	2.5		8260C	Total/NA
1,1-Dichloroethane	11		2.5	0.29	ug/L	2.5		8260C	Total/NA
cis-1,2-Dichloroethene	390	E	2.5	0.59	ug/L	2.5		8260C	Total/NA
Trichloroethene	390	E	2.5	0.36	ug/L	2.5		8260C	Total/NA
Tetrachloroethene	1.5	J	2.5	0.37	ug/L	2.5		8260C	Total/NA
1,1-Dichloroethene - DL	18	J	25	7.4	ug/L	25		8260C	Total/NA
1,1-Dichloroethane - DL	12	J	25	2.9	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene - DL	440		25	5.9	ug/L	25		8260C	Total/NA
Trichloroethene - DL	470		25	3.6	ug/L	25		8260C	Total/NA
1,4-Dioxane	6.6		1.9	0.049	ug/L	1		8270D LL	Total/NA

Client Sample ID: HD-MW-134-0/1-0 — Lab Sample ID: 180-47935-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.2		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.20	J	1.0	0.17	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.3		1.0	0.12	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	19		1.0	0.24	ug/L	1		8260C	Total/NA
Chloroform	0.19	J	1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	43		1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	7.0		1.0	0.15	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-MW-134-0/1-0 (Continued) — Lab Sample ID: 180-47935-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	6.2		1.9	0.049	ug/L	1		8270D LL	Total/NA

Client Sample ID: HD-MW-114-0/1-0 — Lab Sample ID: 180-47935-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	15		10	2.3	ug/L	10		8260C	Total/NA
1,1-Dichloroethene	18		10	3.0	ug/L	10		8260C	Total/NA
trans-1,2-Dichloroethene	8.2	J	10	1.7	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	19		10	1.2	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	1500	E	10	2.4	ug/L	10		8260C	Total/NA
1,1,1-Trichloroethane	3.4	J	10	2.9	ug/L	10		8260C	Total/NA
Trichloroethene	1300	E	10	1.4	ug/L	10		8260C	Total/NA
Tetrachloroethene	490		10	1.5	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	1500		100	24	ug/L	100		8260C	Total/NA
Trichloroethene - DL	1300		100	14	ug/L	100		8260C	Total/NA
Tetrachloroethene - DL	540		100	15	ug/L	100		8260C	Total/NA

Client Sample ID: HD-MW-46-0/1-0 — Lab Sample ID: 180-47935-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	4.5	J	5.0	1.5	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	4.2	J	5.0	0.58	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	84		5.0	1.2	ug/L	5		8260C	Total/NA
1,1,1-Trichloroethane	10		5.0	1.4	ug/L	5		8260C	Total/NA
Trichloroethene	65		5.0	0.72	ug/L	5		8260C	Total/NA
Tetrachloroethene	35		5.0	0.74	ug/L	5		8260C	Total/NA

Client Sample ID: HD-QC4-0/1-2 — Lab Sample ID: 180-47935-7

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: HD-MW-129-0/1-0
Date Collected: 09/18/15 10:10
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	20	U	20	5.7	ug/L			09/28/15 21:14	20
Vinyl chloride	20	U	20	4.5	ug/L			09/28/15 21:14	20
Bromomethane	20	U	20	6.3	ug/L			09/28/15 21:14	20
Chloroethane	20	U	20	4.3	ug/L			09/28/15 21:14	20
1,1-Dichloroethene	20	U	20	5.9	ug/L			09/28/15 21:14	20
Acetone	100	U	100	50	ug/L			09/28/15 21:14	20
Carbon disulfide	20	U	20	4.2	ug/L			09/28/15 21:14	20
Methylene Chloride	20	U	20	2.5	ug/L			09/28/15 21:14	20
trans-1,2-Dichloroethene	20	U	20	3.4	ug/L			09/28/15 21:14	20
Methyl tert-butyl ether	20	U	20	3.7	ug/L			09/28/15 21:14	20
1,1-Dichloroethane	20	U	20	2.3	ug/L			09/28/15 21:14	20
cis-1,2-Dichloroethene	**150**		20	4.7	ug/L			09/28/15 21:14	20
Bromochloromethane	20	U	20	3.6	ug/L			09/28/15 21:14	20
2-Butanone (MEK)	100	U	100	11	ug/L			09/28/15 21:14	20
Chloroform	20	U	20	3.4	ug/L			09/28/15 21:14	20
1,1,1-Trichloroethane	20	U	20	5.7	ug/L			09/28/15 21:14	20
Carbon tetrachloride	20	U	20	2.7	ug/L			09/28/15 21:14	20
Benzene	20	U	20	2.1	ug/L			09/28/15 21:14	20
1,2-Dichloroethane	20	U	20	4.2	ug/L			09/28/15 21:14	20
Trichloroethene	**2900**	**E**	20	2.9	ug/L			09/28/15 21:14	20
1,2-Dichloropropane	20	U	20	1.9	ug/L			09/28/15 21:14	20
Bromodichloromethane	20	U	20	2.6	ug/L			09/28/15 21:14	20
cis-1,3-Dichloropropene	20	U	20	3.7	ug/L			09/28/15 21:14	20
4-Methyl-2-pentanone (MIBK)	100	U	100	11	ug/L			09/28/15 21:14	20
Toluene	20	U	20	3.0	ug/L			09/28/15 21:14	20
trans-1,3-Dichloropropene	20	U	20	3.0	ug/L			09/28/15 21:14	20
1,1,2-Trichloroethane	20	U	20	4.0	ug/L			09/28/15 21:14	20
Tetrachloroethene	**340**		20	3.0	ug/L			09/28/15 21:14	20
2-Hexanone	100	U ^c	100	3.2	ug/L			09/28/15 21:14	20
Dibromochloromethane	20	U	20	2.7	ug/L			09/28/15 21:14	20
1,2-Dibromoethane (EDB)	20	U	20	3.6	ug/L			09/28/15 21:14	20
Chlorobenzene	20	U	20	2.7	ug/L			09/28/15 21:14	20
1,1,1,2-Tetrachloroethane	20	U	20	5.5	ug/L			09/28/15 21:14	20
Ethylbenzene	20	U	20	4.5	ug/L			09/28/15 21:14	20
Xylenes, Total	60	U	60	9.8	ug/L			09/28/15 21:14	20
Styrene	20	U	20	1.9	ug/L			09/28/15 21:14	20
Bromoform	20	U	20	3.8	ug/L			09/28/15 21:14	20
1,1,2,2-Tetrachloroethane	20	U	20	4.0	ug/L			09/28/15 21:14	20
Acrylonitrile	400	U	400	11	ug/L			09/28/15 21:14	20
1,4-Dioxane	4000	U	4000	690	ug/L			09/28/15 21:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 135*		*09/28/15 21:14*	*20*
Toluene-d8 (Surr)	*108*		*71 - 118*		*09/28/15 21:14*	*20*
4-Bromofluorobenzene (Surr)	*98*		*70 - 118*		*09/28/15 21:14*	*20*
Dibromofluoromethane (Surr)	*101*		*70 - 128*		*09/28/15 21:14*	*20*

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

Client Sample ID: HD-MW-131-0/1-0
Date Collected: 09/18/15 10:07
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	4.0	U	4.0	1.1	ug/L			09/28/15 21:38	4
Vinyl chloride	4.0	U	4.0	0.91	ug/L			09/28/15 21:38	4
Bromomethane	4.0	U	4.0	1.3	ug/L			09/28/15 21:38	4
Chloroethane	4.0	U	4.0	0.86	ug/L			09/28/15 21:38	4
1,1-Dichloroethene	**1.4**	**J**	4.0	1.2	ug/L			09/28/15 21:38	4
Acetone	20	U	20	10	ug/L			09/28/15 21:38	4
Carbon disulfide	4.0	U	4.0	0.85	ug/L			09/28/15 21:38	4
Methylene Chloride	4.0	U	4.0	0.50	ug/L			09/28/15 21:38	4
trans-1,2-Dichloroethene	4.0	U	4.0	0.68	ug/L			09/28/15 21:38	4
Methyl tert-butyl ether	4.0	U	4.0	0.73	ug/L			09/28/15 21:38	4
1,1-Dichloroethane	**4.2**		4.0	0.47	ug/L			09/28/15 21:38	4
cis-1,2-Dichloroethene	**100**		4.0	0.95	ug/L			09/28/15 21:38	4
Bromochloromethane	4.0	U	4.0	0.72	ug/L			09/28/15 21:38	4
2-Butanone (MEK)	20	U	20	2.2	ug/L			09/28/15 21:38	4
Chloroform	**11**		4.0	0.68	ug/L			09/28/15 21:38	4
1,1,1-Trichloroethane	4.0	U	4.0	1.1	ug/L			09/28/15 21:38	4
Carbon tetrachloride	4.0	U	4.0	0.55	ug/L			09/28/15 21:38	4
Benzene	4.0	U	4.0	0.42	ug/L			09/28/15 21:38	4
1,2-Dichloroethane	4.0	U	4.0	0.85	ug/L			09/28/15 21:38	4
Trichloroethene	**540**	**E**	4.0	0.57	ug/L			09/28/15 21:38	4
1,2-Dichloropropane	4.0	U	4.0	0.38	ug/L			09/28/15 21:38	4
Bromodichloromethane	4.0	U	4.0	0.52	ug/L			09/28/15 21:38	4
cis-1,3-Dichloropropene	4.0	U	4.0	0.75	ug/L			09/28/15 21:38	4
4-Methyl-2-pentanone (MIBK)	20	U	20	2.1	ug/L			09/28/15 21:38	4
Toluene	4.0	U	4.0	0.60	ug/L			09/28/15 21:38	4
trans-1,3-Dichloropropene	4.0	U	4.0	0.59	ug/L			09/28/15 21:38	4
1,1,2-Trichloroethane	**1.6**	**J**	4.0	0.81	ug/L			09/28/15 21:38	4
Tetrachloroethene	**6.2**		4.0	0.59	ug/L			09/28/15 21:38	4
2-Hexanone	20	U ^c	20	0.64	ug/L			09/28/15 21:38	4
Dibromochloromethane	4.0	U	4.0	0.55	ug/L			09/28/15 21:38	4
1,2-Dibromoethane (EDB)	4.0	U	4.0	0.72	ug/L			09/28/15 21:38	4
Chlorobenzene	4.0	U	4.0	0.54	ug/L			09/28/15 21:38	4
1,1,1,2-Tetrachloroethane	4.0	U	4.0	1.1	ug/L			09/28/15 21:38	4
Ethylbenzene	4.0	U	4.0	0.91	ug/L			09/28/15 21:38	4
Xylenes, Total	12	U	12	2.0	ug/L			09/28/15 21:38	4
Styrene	4.0	U	4.0	0.39	ug/L			09/28/15 21:38	4
Bromoform	4.0	U	4.0	0.77	ug/L			09/28/15 21:38	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.80	ug/L			09/28/15 21:38	4
Acrylonitrile	80	U	80	2.2	ug/L			09/28/15 21:38	4
1,4-Dioxane	800	U	800	140	ug/L			09/28/15 21:38	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 135*		*09/28/15 21:38*	*4*
Toluene-d8 (Surr)	*106*		*71 - 118*		*09/28/15 21:38*	*4*
4-Bromofluorobenzene (Surr)	*90*		*70 - 118*		*09/28/15 21:38*	*4*
Dibromofluoromethane (Surr)	*97*		*70 - 128*		*09/28/15 21:38*	*4*

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

Client Sample ID: HD-MW-132-0/1-0
Date Collected: 09/18/15 11:57
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.5	U	2.5	0.71	ug/L			09/28/15 22:03	2.5
Vinyl chloride	2.5	U	2.5	0.57	ug/L			09/28/15 22:03	2.5
Bromomethane	2.5	U	2.5	0.78	ug/L			09/28/15 22:03	2.5
Chloroethane	2.5	U	2.5	0.54	ug/L			09/28/15 22:03	2.5
1,1-Dichloroethene	**15**		2.5	0.74	ug/L			09/28/15 22:03	2.5
Acetone	13	U	13	6.3	ug/L			09/28/15 22:03	2.5
Carbon disulfide	2.5	U	2.5	0.53	ug/L			09/28/15 22:03	2.5
Methylene Chloride	2.5	U	2.5	0.31	ug/L			09/28/15 22:03	2.5
trans-1,2-Dichloroethene	**2.8**		2.5	0.42	ug/L			09/28/15 22:03	2.5
Methyl tert-butyl ether	2.5	U	2.5	0.46	ug/L			09/28/15 22:03	2.5
1,1-Dichloroethane	**11**		2.5	0.29	ug/L			09/28/15 22:03	2.5
cis-1,2-Dichloroethene	**390**	**E**	2.5	0.59	ug/L			09/28/15 22:03	2.5
Bromochloromethane	2.5	U	2.5	0.45	ug/L			09/28/15 22:03	2.5
2-Butanone (MEK)	13	U	13	1.4	ug/L			09/28/15 22:03	2.5
Chloroform	2.5	U	2.5	0.43	ug/L			09/28/15 22:03	2.5
1,1,1-Trichloroethane	2.5	U	2.5	0.72	ug/L			09/28/15 22:03	2.5
Carbon tetrachloride	2.5	U	2.5	0.34	ug/L			09/28/15 22:03	2.5
Benzene	2.5	U	2.5	0.26	ug/L			09/28/15 22:03	2.5
1,2-Dichloroethane	2.5	U	2.5	0.53	ug/L			09/28/15 22:03	2.5
Trichloroethene	**390**	**E**	2.5	0.36	ug/L			09/28/15 22:03	2.5
1,2-Dichloropropane	2.5	U	2.5	0.24	ug/L			09/28/15 22:03	2.5
Bromodichloromethane	2.5	U	2.5	0.33	ug/L			09/28/15 22:03	2.5
cis-1,3-Dichloropropene	2.5	U	2.5	0.47	ug/L			09/28/15 22:03	2.5
4-Methyl-2-pentanone (MIBK)	13	U	13	1.3	ug/L			09/28/15 22:03	2.5
Toluene	2.5	U	2.5	0.38	ug/L			09/28/15 22:03	2.5
trans-1,3-Dichloropropene	2.5	U	2.5	0.37	ug/L			09/28/15 22:03	2.5
1,1,2-Trichloroethane	2.5	U	2.5	0.50	ug/L			09/28/15 22:03	2.5
Tetrachloroethene	**1.5**	**J**	2.5	0.37	ug/L			09/28/15 22:03	2.5
2-Hexanone	13	U ^c	13	0.40	ug/L			09/28/15 22:03	2.5
Dibromochloromethane	2.5	U	2.5	0.34	ug/L			09/28/15 22:03	2.5
1,2-Dibromoethane (EDB)	2.5	U	2.5	0.45	ug/L			09/28/15 22:03	2.5
Chlorobenzene	2.5	U	2.5	0.34	ug/L			09/28/15 22:03	2.5
1,1,1,2-Tetrachloroethane	2.5	U	2.5	0.69	ug/L			09/28/15 22:03	2.5
Ethylbenzene	2.5	U	2.5	0.57	ug/L			09/28/15 22:03	2.5
Xylenes, Total	7.5	U	7.5	1.2	ug/L			09/28/15 22:03	2.5
Styrene	2.5	U	2.5	0.24	ug/L			09/28/15 22:03	2.5
Bromoform	2.5	U	2.5	0.48	ug/L			09/28/15 22:03	2.5
1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.50	ug/L			09/28/15 22:03	2.5
Acrylonitrile	50	U	50	1.4	ug/L			09/28/15 22:03	2.5
1,4-Dioxane	500	U	500	86	ug/L			09/28/15 22:03	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 135*		*09/28/15 22:03*	*2.5*
Toluene-d8 (Surr)	*111*		*71 - 118*		*09/28/15 22:03*	*2.5*
4-Bromofluorobenzene (Surr)	*96*		*70 - 118*		*09/28/15 22:03*	*2.5*
Dibromofluoromethane (Surr)	*103*		*70 - 128*		*09/28/15 22:03*	*2.5*

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

Client Sample ID: HD-MW-134-0/1-0
Date Collected: 09/18/15 13:32
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			09/28/15 18:49	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/28/15 18:49	1
Bromomethane	1.0	U	1.0	0.31	ug/L			09/28/15 18:49	1
Chloroethane	1.0	U	1.0	0.21	ug/L			09/28/15 18:49	1
1,1-Dichloroethene	**1.2**		1.0	0.30	ug/L			09/28/15 18:49	1
Acetone	5.0	U	5.0	2.5	ug/L			09/28/15 18:49	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			09/28/15 18:49	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			09/28/15 18:49	1
trans-1,2-Dichloroethene	**0.20**	**J**	1.0	0.17	ug/L			09/28/15 18:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			09/28/15 18:49	1
1,1-Dichloroethane	**1.3**		1.0	0.12	ug/L			09/28/15 18:49	1
cis-1,2-Dichloroethene	**19**		1.0	0.24	ug/L			09/28/15 18:49	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			09/28/15 18:49	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			09/28/15 18:49	1
Chloroform	**0.19**	**J**	1.0	0.17	ug/L			09/28/15 18:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/28/15 18:49	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			09/28/15 18:49	1
Benzene	1.0	U	1.0	0.11	ug/L			09/28/15 18:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/28/15 18:49	1
Trichloroethene	**43**		1.0	0.14	ug/L			09/28/15 18:49	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			09/28/15 18:49	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			09/28/15 18:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			09/28/15 18:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			09/28/15 18:49	1
Toluene	1.0	U	1.0	0.15	ug/L			09/28/15 18:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			09/28/15 18:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			09/28/15 18:49	1
Tetrachloroethene	**7.0**		1.0	0.15	ug/L			09/28/15 18:49	1
2-Hexanone	5.0	U ^c	5.0	0.16	ug/L			09/28/15 18:49	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			09/28/15 18:49	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			09/28/15 18:49	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/28/15 18:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			09/28/15 18:49	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			09/28/15 18:49	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			09/28/15 18:49	1
Styrene	1.0	U	1.0	0.097	ug/L			09/28/15 18:49	1
Bromoform	1.0	U	1.0	0.19	ug/L			09/28/15 18:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			09/28/15 18:49	1
Acrylonitrile	20	U	20	0.55	ug/L			09/28/15 18:49	1
1,4-Dioxane	200	U	200	34	ug/L			09/28/15 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 135*		*09/28/15 18:49*	*1*
Toluene-d8 (Surr)	*105*		*71 - 118*		*09/28/15 18:49*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 118*		*09/28/15 18:49*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 128*		*09/28/15 18:49*	*1*

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

Client Sample ID: HD-MW-114-0/1-0
Date Collected: 09/18/15 12:20
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	10	U	10	2.8	ug/L			09/29/15 22:24	10
Vinyl chloride	**15**		10	2.3	ug/L			09/29/15 22:24	10
Bromomethane	10	U ^c	10	3.1	ug/L			09/29/15 22:24	10
Chloroethane	10	U	10	2.1	ug/L			09/29/15 22:24	10
1,1-Dichloroethene	**18**		10	3.0	ug/L			09/29/15 22:24	10
Acetone	50	U	50	25	ug/L			09/29/15 22:24	10
Carbon disulfide	10	U	10	2.1	ug/L			09/29/15 22:24	10
Methylene Chloride	10	U	10	1.3	ug/L			09/29/15 22:24	10
trans-1,2-Dichloroethene	**8.2**	**J**	10	1.7	ug/L			09/29/15 22:24	10
Methyl tert-butyl ether	10	U	10	1.8	ug/L			09/29/15 22:24	10
1,1-Dichloroethane	**19**		10	1.2	ug/L			09/29/15 22:24	10
cis-1,2-Dichloroethene	**1500**	**E**	10	2.4	ug/L			09/29/15 22:24	10
Bromochloromethane	10	U	10	1.8	ug/L			09/29/15 22:24	10
2-Butanone (MEK)	50	U	50	5.5	ug/L			09/29/15 22:24	10
Chloroform	10	U	10	1.7	ug/L			09/29/15 22:24	10
1,1,1-Trichloroethane	**3.4**	**J**	10	2.9	ug/L			09/29/15 22:24	10
Carbon tetrachloride	10	U	10	1.4	ug/L			09/29/15 22:24	10
Benzene	10	U	10	1.1	ug/L			09/29/15 22:24	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			09/29/15 22:24	10
Trichloroethene	**1300**	**E**	10	1.4	ug/L			09/29/15 22:24	10
1,2-Dichloropropane	10	U	10	0.95	ug/L			09/29/15 22:24	10
Bromodichloromethane	10	U	10	1.3	ug/L			09/29/15 22:24	10
cis-1,3-Dichloropropene	10	U	10	1.9	ug/L			09/29/15 22:24	10
4-Methyl-2-pentanone (MIBK)	50	U	50	5.3	ug/L			09/29/15 22:24	10
Toluene	10	U	10	1.5	ug/L			09/29/15 22:24	10
trans-1,3-Dichloropropene	10	U	10	1.5	ug/L			09/29/15 22:24	10
1,1,2-Trichloroethane	10	U	10	2.0	ug/L			09/29/15 22:24	10
Tetrachloroethene	**490**		10	1.5	ug/L			09/29/15 22:24	10
2-Hexanone	50	U	50	1.6	ug/L			09/29/15 22:24	10
Dibromochloromethane	10	U	10	1.4	ug/L			09/29/15 22:24	10
1,2-Dibromoethane (EDB)	10	U	10	1.8	ug/L			09/29/15 22:24	10
Chlorobenzene	10	U	10	1.4	ug/L			09/29/15 22:24	10
1,1,1,2-Tetrachloroethane	10	U	10	2.8	ug/L			09/29/15 22:24	10
Ethylbenzene	10	U	10	2.3	ug/L			09/29/15 22:24	10
Xylenes, Total	30	U	30	4.9	ug/L			09/29/15 22:24	10
Styrene	10	U	10	0.97	ug/L			09/29/15 22:24	10
Bromoform	10	U	10	1.9	ug/L			09/29/15 22:24	10
1,1,2,2-Tetrachloroethane	10	U	10	2.0	ug/L			09/29/15 22:24	10
Acrylonitrile	200	U	200	5.5	ug/L			09/29/15 22:24	10
1,4-Dioxane	2000	U	2000	340	ug/L			09/29/15 22:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 135*		*09/29/15 22:24*	*10*
Toluene-d8 (Surr)	*105*		*71 - 118*		*09/29/15 22:24*	*10*
4-Bromofluorobenzene (Surr)	*89*		*70 - 118*		*09/29/15 22:24*	*10*
Dibromofluoromethane (Surr)	*104*		*70 - 128*		*09/29/15 22:24*	*10*

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

Client Sample ID: HD-MW-46-0/1-0
Date Collected: 09/18/15 14:00
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	5.0	U	5.0	1.4	ug/L			09/29/15 15:55	5
Vinyl chloride	5.0	U	5.0	1.1	ug/L			09/29/15 15:55	5
Bromomethane	5.0	U ^c	5.0	1.6	ug/L			09/29/15 15:55	5
Chloroethane	5.0	U	5.0	1.1	ug/L			09/29/15 15:55	5
1,1-Dichloroethene	**4.5**	**J**	5.0	1.5	ug/L			09/29/15 15:55	5
Acetone	25	U	25	13	ug/L			09/29/15 15:55	5
Carbon disulfide	5.0	U	5.0	1.1	ug/L			09/29/15 15:55	5
Methylene Chloride	5.0	U	5.0	0.63	ug/L			09/29/15 15:55	5
trans-1,2-Dichloroethene	5.0	U	5.0	0.85	ug/L			09/29/15 15:55	5
Methyl tert-butyl ether	5.0	U	5.0	0.92	ug/L			09/29/15 15:55	5
1,1-Dichloroethane	**4.2**	**J**	5.0	0.58	ug/L			09/29/15 15:55	5
cis-1,2-Dichloroethene	**84**		5.0	1.2	ug/L			09/29/15 15:55	5
Bromochloromethane	5.0	U	5.0	0.90	ug/L			09/29/15 15:55	5
2-Butanone (MEK)	25	U	25	2.7	ug/L			09/29/15 15:55	5
Chloroform	5.0	U	5.0	0.85	ug/L			09/29/15 15:55	5
1,1,1-Trichloroethane	**10**		5.0	1.4	ug/L			09/29/15 15:55	5
Carbon tetrachloride	5.0	U	5.0	0.68	ug/L			09/29/15 15:55	5
Benzene	5.0	U	5.0	0.53	ug/L			09/29/15 15:55	5
1,2-Dichloroethane	5.0	U	5.0	1.1	ug/L			09/29/15 15:55	5
Trichloroethene	**65**		5.0	0.72	ug/L			09/29/15 15:55	5
1,2-Dichloropropane	5.0	U	5.0	0.47	ug/L			09/29/15 15:55	5
Bromodichloromethane	5.0	U	5.0	0.65	ug/L			09/29/15 15:55	5
cis-1,3-Dichloropropene	5.0	U	5.0	0.93	ug/L			09/29/15 15:55	5
4-Methyl-2-pentanone (MIBK)	25	U	25	2.6	ug/L			09/29/15 15:55	5
Toluene	5.0	U	5.0	0.75	ug/L			09/29/15 15:55	5
trans-1,3-Dichloropropene	5.0	U	5.0	0.74	ug/L			09/29/15 15:55	5
1,1,2-Trichloroethane	5.0	U	5.0	1.0	ug/L			09/29/15 15:55	5
Tetrachloroethene	**35**		5.0	0.74	ug/L			09/29/15 15:55	5
2-Hexanone	25	U	25	0.80	ug/L			09/29/15 15:55	5
Dibromochloromethane	5.0	U	5.0	0.68	ug/L			09/29/15 15:55	5
1,2-Dibromoethane (EDB)	5.0	U	5.0	0.90	ug/L			09/29/15 15:55	5
Chlorobenzene	5.0	U	5.0	0.68	ug/L			09/29/15 15:55	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.4	ug/L			09/29/15 15:55	5
Ethylbenzene	5.0	U	5.0	1.1	ug/L			09/29/15 15:55	5
Xylenes, Total	15	U	15	2.4	ug/L			09/29/15 15:55	5
Styrene	5.0	U	5.0	0.48	ug/L			09/29/15 15:55	5
Bromoform	5.0	U	5.0	0.96	ug/L			09/29/15 15:55	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.0	ug/L			09/29/15 15:55	5
Acrylonitrile	100	U	100	2.7	ug/L			09/29/15 15:55	5
1,4-Dioxane	1000	U	1000	170	ug/L			09/29/15 15:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 135*		*09/29/15 15:55*	*5*
Toluene-d8 (Surr)	*106*		*71 - 118*		*09/29/15 15:55*	*5*
4-Bromofluorobenzene (Surr)	*93*		*70 - 118*		*09/29/15 15:55*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 128*		*09/29/15 15:55*	*5*

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

Client Sample ID: HD-QC4-0/1-2
Date Collected: 09/18/15 12:00
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			09/28/15 20:50	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/28/15 20:50	1
Bromomethane	1.0	U	1.0	0.31	ug/L			09/28/15 20:50	1
Chloroethane	1.0	U	1.0	0.21	ug/L			09/28/15 20:50	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/28/15 20:50	1
Acetone	5.0	U	5.0	2.5	ug/L			09/28/15 20:50	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			09/28/15 20:50	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			09/28/15 20:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/28/15 20:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			09/28/15 20:50	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			09/28/15 20:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/28/15 20:50	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			09/28/15 20:50	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			09/28/15 20:50	1
Chloroform	1.0	U	1.0	0.17	ug/L			09/28/15 20:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/28/15 20:50	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			09/28/15 20:50	1
Benzene	1.0	U	1.0	0.11	ug/L			09/28/15 20:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/28/15 20:50	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/28/15 20:50	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			09/28/15 20:50	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			09/28/15 20:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			09/28/15 20:50	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			09/28/15 20:50	1
Toluene	1.0	U	1.0	0.15	ug/L			09/28/15 20:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			09/28/15 20:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			09/28/15 20:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/28/15 20:50	1
2-Hexanone	5.0	U ^c	5.0	0.16	ug/L			09/28/15 20:50	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			09/28/15 20:50	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			09/28/15 20:50	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/28/15 20:50	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			09/28/15 20:50	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			09/28/15 20:50	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			09/28/15 20:50	1
Styrene	1.0	U	1.0	0.097	ug/L			09/28/15 20:50	1
Bromoform	1.0	U	1.0	0.19	ug/L			09/28/15 20:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			09/28/15 20:50	1
Acrylonitrile	20	U	20	0.55	ug/L			09/28/15 20:50	1
1,4-Dioxane	200	U	200	34	ug/L			09/28/15 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 135*		*09/28/15 20:50*	*1*
Toluene-d8 (Surr)	*105*		*71 - 118*		*09/28/15 20:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 118*		*09/28/15 20:50*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 128*		*09/28/15 20:50*	*1*

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

Client Sample ID: HD-MW-129-0/1-0
Date Collected: 09/18/15 10:10
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	200	U	200	57	ug/L			09/28/15 17:35	200
Vinyl chloride	200	U	200	45	ug/L			09/28/15 17:35	200
Bromomethane	200	U	200	63	ug/L			09/28/15 17:35	200
Chloroethane	200	U	200	43	ug/L			09/28/15 17:35	200
1,1-Dichloroethene	200	U	200	59	ug/L			09/28/15 17:35	200
Acetone	1000	U	1000	500	ug/L			09/28/15 17:35	200
Carbon disulfide	200	U	200	42	ug/L			09/28/15 17:35	200
Methylene Chloride	200	U	200	25	ug/L			09/28/15 17:35	200
trans-1,2-Dichloroethene	200	U	200	34	ug/L			09/28/15 17:35	200
Methyl tert-butyl ether	200	U	200	37	ug/L			09/28/15 17:35	200
1,1-Dichloroethane	200	U	200	23	ug/L			09/28/15 17:35	200
cis-1,2-Dichloroethene	**130**	**J**	200	47	ug/L			09/28/15 17:35	200
Bromochloromethane	200	U	200	36	ug/L			09/28/15 17:35	200
2-Butanone (MEK)	1000	U	1000	110	ug/L			09/28/15 17:35	200
Chloroform	200	U	200	34	ug/L			09/28/15 17:35	200
1,1,1-Trichloroethane	200	U	200	57	ug/L			09/28/15 17:35	200
Carbon tetrachloride	200	U	200	27	ug/L			09/28/15 17:35	200
Benzene	200	U	200	21	ug/L			09/28/15 17:35	200
1,2-Dichloroethane	200	U	200	42	ug/L			09/28/15 17:35	200
Trichloroethene	**3500**		200	29	ug/L			09/28/15 17:35	200
1,2-Dichloropropane	200	U	200	19	ug/L			09/28/15 17:35	200
Bromodichloromethane	200	U	200	26	ug/L			09/28/15 17:35	200
cis-1,3-Dichloropropene	200	U	200	37	ug/L			09/28/15 17:35	200
4-Methyl-2-pentanone (MIBK)	1000	U	1000	110	ug/L			09/28/15 17:35	200
Toluene	200	U	200	30	ug/L			09/28/15 17:35	200
trans-1,3-Dichloropropene	200	U	200	30	ug/L			09/28/15 17:35	200
1,1,2-Trichloroethane	200	U	200	40	ug/L			09/28/15 17:35	200
Tetrachloroethene	**370**		200	30	ug/L			09/28/15 17:35	200
2-Hexanone	1000	U ^c	1000	32	ug/L			09/28/15 17:35	200
Dibromochloromethane	200	U	200	27	ug/L			09/28/15 17:35	200
1,2-Dibromoethane (EDB)	200	U	200	36	ug/L			09/28/15 17:35	200
Chlorobenzene	200	U	200	27	ug/L			09/28/15 17:35	200
1,1,1,2-Tetrachloroethane	200	U	200	55	ug/L			09/28/15 17:35	200
Ethylbenzene	200	U	200	45	ug/L			09/28/15 17:35	200
Xylenes, Total	600	U	600	98	ug/L			09/28/15 17:35	200
Styrene	200	U	200	19	ug/L			09/28/15 17:35	200
Bromoform	200	U	200	38	ug/L			09/28/15 17:35	200
1,1,2,2-Tetrachloroethane	200	U	200	40	ug/L			09/28/15 17:35	200
Acrylonitrile	4000	U	4000	110	ug/L			09/28/15 17:35	200
1,4-Dioxane	40000	U	40000	6900	ug/L			09/28/15 17:35	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 135*		*09/28/15 17:35*	*200*
Toluene-d8 (Surr)	*113*		*71 - 118*		*09/28/15 17:35*	*200*
4-Bromofluorobenzene (Surr)	*99*		*70 - 118*		*09/28/15 17:35*	*200*
Dibromofluoromethane (Surr)	*96*		*70 - 128*		*09/28/15 17:35*	*200*

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

Client Sample ID: HD-MW-131-0/1-0
Date Collected: 09/18/15 10:07
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	40	U	40	11	ug/L			09/28/15 18:00	40
Vinyl chloride	40	U	40	9.1	ug/L			09/28/15 18:00	40
Bromomethane	40	U	40	13	ug/L			09/28/15 18:00	40
Chloroethane	40	U	40	8.6	ug/L			09/28/15 18:00	40
1,1-Dichloroethene	40	U	40	12	ug/L			09/28/15 18:00	40
Acetone	200	U	200	100	ug/L			09/28/15 18:00	40
Carbon disulfide	40	U	40	8.5	ug/L			09/28/15 18:00	40
Methylene Chloride	40	U	40	5.0	ug/L			09/28/15 18:00	40
trans-1,2-Dichloroethene	40	U	40	6.8	ug/L			09/28/15 18:00	40
Methyl tert-butyl ether	40	U	40	7.3	ug/L			09/28/15 18:00	40
1,1-Dichloroethane	**4.9**	**J**	40	4.7	ug/L			09/28/15 18:00	40
cis-1,2-Dichloroethene	**100**		40	9.5	ug/L			09/28/15 18:00	40
Bromochloromethane	40	U	40	7.2	ug/L			09/28/15 18:00	40
2-Butanone (MEK)	200	U	200	22	ug/L			09/28/15 18:00	40
Chloroform	**12**	**J**	40	6.8	ug/L			09/28/15 18:00	40
1,1,1-Trichloroethane	40	U	40	11	ug/L			09/28/15 18:00	40
Carbon tetrachloride	40	U	40	5.5	ug/L			09/28/15 18:00	40
Benzene	40	U	40	4.2	ug/L			09/28/15 18:00	40
1,2-Dichloroethane	40	U	40	8.5	ug/L			09/28/15 18:00	40
Trichloroethene	**640**		40	5.7	ug/L			09/28/15 18:00	40
1,2-Dichloropropane	40	U	40	3.8	ug/L			09/28/15 18:00	40
Bromodichloromethane	40	U	40	5.2	ug/L			09/28/15 18:00	40
cis-1,3-Dichloropropene	40	U	40	7.5	ug/L			09/28/15 18:00	40
4-Methyl-2-pentanone (MIBK)	200	U	200	21	ug/L			09/28/15 18:00	40
Toluene	40	U	40	6.0	ug/L			09/28/15 18:00	40
trans-1,3-Dichloropropene	40	U	40	5.9	ug/L			09/28/15 18:00	40
1,1,2-Trichloroethane	40	U	40	8.1	ug/L			09/28/15 18:00	40
Tetrachloroethene	**6.6**	**J**	40	5.9	ug/L			09/28/15 18:00	40
2-Hexanone	200	U ^c	200	6.4	ug/L			09/28/15 18:00	40
Dibromochloromethane	40	U	40	5.5	ug/L			09/28/15 18:00	40
1,2-Dibromoethane (EDB)	40	U	40	7.2	ug/L			09/28/15 18:00	40
Chlorobenzene	40	U	40	5.4	ug/L			09/28/15 18:00	40
1,1,1,2-Tetrachloroethane	40	U	40	11	ug/L			09/28/15 18:00	40
Ethylbenzene	40	U	40	9.1	ug/L			09/28/15 18:00	40
Xylenes, Total	120	U	120	20	ug/L			09/28/15 18:00	40
Styrene	40	U	40	3.9	ug/L			09/28/15 18:00	40
Bromoform	40	U	40	7.7	ug/L			09/28/15 18:00	40
1,1,2,2-Tetrachloroethane	40	U	40	8.0	ug/L			09/28/15 18:00	40
Acrylonitrile	800	U	800	22	ug/L			09/28/15 18:00	40
1,4-Dioxane	8000	U	8000	1400	ug/L			09/28/15 18:00	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 135*		*09/28/15 18:00*	*40*
Toluene-d8 (Surr)	*105*		*71 - 118*		*09/28/15 18:00*	*40*
4-Bromofluorobenzene (Surr)	*94*		*70 - 118*		*09/28/15 18:00*	*40*
Dibromofluoromethane (Surr)	*99*		*70 - 128*		*09/28/15 18:00*	*40*

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

Client Sample ID: HD-MW-132-0/1-0
Date Collected: 09/18/15 11:57
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	25	U	25	7.1	ug/L			09/28/15 18:24	25
Vinyl chloride	25	U	25	5.7	ug/L			09/28/15 18:24	25
Bromomethane	25	U	25	7.8	ug/L			09/28/15 18:24	25
Chloroethane	25	U	25	5.4	ug/L			09/28/15 18:24	25
1,1-Dichloroethene	**18**	**J**	25	7.4	ug/L			09/28/15 18:24	25
Acetone	130	U	130	63	ug/L			09/28/15 18:24	25
Carbon disulfide	25	U	25	5.3	ug/L			09/28/15 18:24	25
Methylene Chloride	25	U	25	3.1	ug/L			09/28/15 18:24	25
trans-1,2-Dichloroethene	25	U	25	4.2	ug/L			09/28/15 18:24	25
Methyl tert-butyl ether	25	U	25	4.6	ug/L			09/28/15 18:24	25
1,1-Dichloroethane	**12**	**J**	25	2.9	ug/L			09/28/15 18:24	25
cis-1,2-Dichloroethene	**440**		25	5.9	ug/L			09/28/15 18:24	25
Bromochloromethane	25	U	25	4.5	ug/L			09/28/15 18:24	25
2-Butanone (MEK)	130	U	130	14	ug/L			09/28/15 18:24	25
Chloroform	25	U	25	4.3	ug/L			09/28/15 18:24	25
1,1,1-Trichloroethane	25	U	25	7.2	ug/L			09/28/15 18:24	25
Carbon tetrachloride	25	U	25	3.4	ug/L			09/28/15 18:24	25
Benzene	25	U	25	2.6	ug/L			09/28/15 18:24	25
1,2-Dichloroethane	25	U	25	5.3	ug/L			09/28/15 18:24	25
Trichloroethene	**470**		25	3.6	ug/L			09/28/15 18:24	25
1,2-Dichloropropane	25	U	25	2.4	ug/L			09/28/15 18:24	25
Bromodichloromethane	25	U	25	3.3	ug/L			09/28/15 18:24	25
cis-1,3-Dichloropropene	25	U	25	4.7	ug/L			09/28/15 18:24	25
4-Methyl-2-pentanone (MIBK)	130	U	130	13	ug/L			09/28/15 18:24	25
Toluene	25	U	25	3.8	ug/L			09/28/15 18:24	25
trans-1,3-Dichloropropene	25	U	25	3.7	ug/L			09/28/15 18:24	25
1,1,2-Trichloroethane	25	U	25	5.0	ug/L			09/28/15 18:24	25
Tetrachloroethene	25	U	25	3.7	ug/L			09/28/15 18:24	25
2-Hexanone	130	U ^c	130	4.0	ug/L			09/28/15 18:24	25
Dibromochloromethane	25	U	25	3.4	ug/L			09/28/15 18:24	25
1,2-Dibromoethane (EDB)	25	U	25	4.5	ug/L			09/28/15 18:24	25
Chlorobenzene	25	U	25	3.4	ug/L			09/28/15 18:24	25
1,1,1,2-Tetrachloroethane	25	U	25	6.9	ug/L			09/28/15 18:24	25
Ethylbenzene	25	U	25	5.7	ug/L			09/28/15 18:24	25
Xylenes, Total	75	U	75	12	ug/L			09/28/15 18:24	25
Styrene	25	U	25	2.4	ug/L			09/28/15 18:24	25
Bromoform	25	U	25	4.8	ug/L			09/28/15 18:24	25
1,1,2,2-Tetrachloroethane	25	U	25	5.0	ug/L			09/28/15 18:24	25
Acrylonitrile	500	U	500	14	ug/L			09/28/15 18:24	25
1,4-Dioxane	5000	U	5000	860	ug/L			09/28/15 18:24	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 135*		*09/28/15 18:24*	*25*
Toluene-d8 (Surr)	*110*		*71 - 118*		*09/28/15 18:24*	*25*
4-Bromofluorobenzene (Surr)	*99*		*70 - 118*		*09/28/15 18:24*	*25*
Dibromofluoromethane (Surr)	*96*		*70 - 128*		*09/28/15 18:24*	*25*

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

Client Sample ID: HD-MW-114-0/1-0
Date Collected: 09/18/15 12:20
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	100	U	100	28	ug/L			09/28/15 19:13	100
Vinyl chloride	100	U	100	23	ug/L			09/28/15 19:13	100
Bromomethane	100	U	100	31	ug/L			09/28/15 19:13	100
Chloroethane	100	U	100	21	ug/L			09/28/15 19:13	100
1,1-Dichloroethene	100	U	100	30	ug/L			09/28/15 19:13	100
Acetone	500	U	500	250	ug/L			09/28/15 19:13	100
Carbon disulfide	100	U	100	21	ug/L			09/28/15 19:13	100
Methylene Chloride	100	U	100	13	ug/L			09/28/15 19:13	100
trans-1,2-Dichloroethene	100	U	100	17	ug/L			09/28/15 19:13	100
Methyl tert-butyl ether	100	U	100	18	ug/L			09/28/15 19:13	100
1,1-Dichloroethane	100	U	100	12	ug/L			09/28/15 19:13	100
cis-1,2-Dichloroethene	**1500**		100	24	ug/L			09/28/15 19:13	100
Bromochloromethane	100	U	100	18	ug/L			09/28/15 19:13	100
2-Butanone (MEK)	500	U	500	55	ug/L			09/28/15 19:13	100
Chloroform	100	U	100	17	ug/L			09/28/15 19:13	100
1,1,1-Trichloroethane	100	U	100	29	ug/L			09/28/15 19:13	100
Carbon tetrachloride	100	U	100	14	ug/L			09/28/15 19:13	100
Benzene	100	U	100	11	ug/L			09/28/15 19:13	100
1,2-Dichloroethane	100	U	100	21	ug/L			09/28/15 19:13	100
Trichloroethene	**1300**		100	14	ug/L			09/28/15 19:13	100
1,2-Dichloropropane	100	U	100	9.5	ug/L			09/28/15 19:13	100
Bromodichloromethane	100	U	100	13	ug/L			09/28/15 19:13	100
cis-1,3-Dichloropropene	100	U	100	19	ug/L			09/28/15 19:13	100
4-Methyl-2-pentanone (MIBK)	500	U	500	53	ug/L			09/28/15 19:13	100
Toluene	100	U	100	15	ug/L			09/28/15 19:13	100
trans-1,3-Dichloropropene	100	U	100	15	ug/L			09/28/15 19:13	100
1,1,2-Trichloroethane	100	U	100	20	ug/L			09/28/15 19:13	100
Tetrachloroethene	**540**		100	15	ug/L			09/28/15 19:13	100
2-Hexanone	500	U ^c	500	16	ug/L			09/28/15 19:13	100
Dibromochloromethane	100	U	100	14	ug/L			09/28/15 19:13	100
1,2-Dibromoethane (EDB)	100	U	100	18	ug/L			09/28/15 19:13	100
Chlorobenzene	100	U	100	14	ug/L			09/28/15 19:13	100
1,1,1,2-Tetrachloroethane	100	U	100	28	ug/L			09/28/15 19:13	100
Ethylbenzene	100	U	100	23	ug/L			09/28/15 19:13	100
Xylenes, Total	300	U	300	49	ug/L			09/28/15 19:13	100
Styrene	100	U	100	9.7	ug/L			09/28/15 19:13	100
Bromoform	100	U	100	19	ug/L			09/28/15 19:13	100
1,1,2,2-Tetrachloroethane	100	U	100	20	ug/L			09/28/15 19:13	100
Acrylonitrile	2000	U	2000	55	ug/L			09/28/15 19:13	100
1,4-Dioxane	20000	U	20000	3400	ug/L			09/28/15 19:13	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 135*		*09/28/15 19:13*	*100*
Toluene-d8 (Surr)	*108*		*71 - 118*		*09/28/15 19:13*	*100*
4-Bromofluorobenzene (Surr)	*98*		*70 - 118*		*09/28/15 19:13*	*100*
Dibromofluoromethane (Surr)	*99*		*70 - 128*		*09/28/15 19:13*	*100*

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

Client Sample ID: HD-MW-129-0/1-0
Date Collected: 09/18/15 10:10
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.1		1.9	0.049	ug/L		09/25/15 09:58	09/30/15 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*28 - 109*	*09/25/15 09:58*	*09/30/15 14:45*	*1*
2-Fluorophenol (Surr)	*53*		*20 - 105*	*09/25/15 09:58*	*09/30/15 14:45*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*30 - 118*	*09/25/15 09:58*	*09/30/15 14:45*	*1*
Nitrobenzene-d5 (Surr)	*56*		*27 - 114*	*09/25/15 09:58*	*09/30/15 14:45*	*1*
Phenol-d5 (Surr)	*58*		*25 - 105*	*09/25/15 09:58*	*09/30/15 14:45*	*1*
Terphenyl-d14 (Surr)	*67*		*20 - 118*	*09/25/15 09:58*	*09/30/15 14:45*	*1*

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

Client Sample ID: HD-MW-131-0/1-0
Date Collected: 09/18/15 10:07
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.8		1.9	0.049	ug/L		09/25/15 09:58	09/30/15 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*28 - 109*	*09/25/15 09:58*	*09/30/15 15:13*	*1*
2-Fluorophenol (Surr)	*54*		*20 - 105*	*09/25/15 09:58*	*09/30/15 15:13*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*30 - 118*	*09/25/15 09:58*	*09/30/15 15:13*	*1*
Nitrobenzene-d5 (Surr)	*56*		*27 - 114*	*09/25/15 09:58*	*09/30/15 15:13*	*1*
Phenol-d5 (Surr)	*59*		*25 - 105*	*09/25/15 09:58*	*09/30/15 15:13*	*1*
Terphenyl-d14 (Surr)	*68*		*20 - 118*	*09/25/15 09:58*	*09/30/15 15:13*	*1*

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

Client Sample ID: HD-MW-132-0/1-0
Date Collected: 09/18/15 11:57
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**6.6**		1.9	0.049	ug/L		09/25/15 09:58	09/30/15 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*28 - 109*	*09/25/15 09:58*	*09/30/15 15:42*	*1*
2-Fluorophenol (Surr)	*44*		*20 - 105*	*09/25/15 09:58*	*09/30/15 15:42*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*30 - 118*	*09/25/15 09:58*	*09/30/15 15:42*	*1*
Nitrobenzene-d5 (Surr)	*48*		*27 - 114*	*09/25/15 09:58*	*09/30/15 15:42*	*1*
Phenol-d5 (Surr)	*47*		*25 - 105*	*09/25/15 09:58*	*09/30/15 15:42*	*1*
Terphenyl-d14 (Surr)	*69*		*20 - 118*	*09/25/15 09:58*	*09/30/15 15:42*	*1*

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

Client Sample ID: HD-MW-134-0/1-0
Date Collected: 09/18/15 13:32
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**6.2**		1.9	0.049	ug/L		09/25/15 09:58	09/30/15 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*28 - 109*	*09/25/15 09:58*	*09/30/15 16:10*	*1*
2-Fluorophenol (Surr)	*52*		*20 - 105*	*09/25/15 09:58*	*09/30/15 16:10*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*30 - 118*	*09/25/15 09:58*	*09/30/15 16:10*	*1*
Nitrobenzene-d5 (Surr)	*60*		*27 - 114*	*09/25/15 09:58*	*09/30/15 16:10*	*1*
Phenol-d5 (Surr)	*58*		*25 - 105*	*09/25/15 09:58*	*09/30/15 16:10*	*1*
Terphenyl-d14 (Surr)	*75*		*20 - 118*	*09/25/15 09:58*	*09/30/15 16:10*	*1*

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-47935-1

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: 180-47935-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (64-135)	TOL (71-118)	BFB (70-118)	DBFM (70-128)
180-47935-1 - DL	HD-MW-129-0/1-0	103	113	99	96
180-47935-1	HD-MW-129-0/1-0	104	108	98	101
180-47935-2 - DL	HD-MW-131-0/1-0	101	105	94	99
180-47935-2	HD-MW-131-0/1-0	102	106	90	97
180-47935-3 - DL	HD-MW-132-0/1-0	102	110	99	96
180-47935-3	HD-MW-132-0/1-0	105	111	96	103
180-47935-4	HD-MW-134-0/1-0	103	105	93	98
180-47935-5 - DL	HD-MW-114-0/1-0	103	108	98	99
180-47935-5	HD-MW-114-0/1-0	103	105	89	104
180-47935-6	HD-MW-46-0/1-0	101	106	93	96
180-47935-7	HD-QC4-0/1-2	105	105	93	99
LCS 180-155089/8	Lab Control Sample	98	101	96	96
LCS 180-155230/8	Lab Control Sample	106	110	101	99
MB 180-155089/4	Method Blank	99	107	95	90
MB 180-155230/5	Method Blank	100	107	92	100

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)					
Lab Sample ID	Client Sample ID	FBP (28-109)	2FP (20-105)	TBP (30-118)	NBZ (27-114)	PHL (25-105)	TPH (20-118)
180-47935-1	HD-MW-129-0/1-0	60	53	59	56	58	67
180-47935-2	HD-MW-131-0/1-0	60	54	60	56	59	68
180-47935-3	HD-MW-132-0/1-0	49	44	57	48	47	69
180-47935-4	HD-MW-134-0/1-0	64	52	68	60	58	75
LCS 180-154864/2-A	Lab Control Sample	84	81	90	76	85	86
LCSD 180-154864/3-A	Lab Control Sample Dup	72	71	83	69	71	79
MB 180-154864/1-A	Method Blank	67	65	65	63	67	80

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 180-155089/4
Matrix: Water
Analysis Batch: 155089

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			09/28/15 12:18	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/28/15 12:18	1
Bromomethane	1.0	U	1.0	0.31	ug/L			09/28/15 12:18	1
Chloroethane	1.0	U	1.0	0.21	ug/L			09/28/15 12:18	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/28/15 12:18	1
Acetone	5.0	U	5.0	2.5	ug/L			09/28/15 12:18	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			09/28/15 12:18	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			09/28/15 12:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/28/15 12:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			09/28/15 12:18	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			09/28/15 12:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/28/15 12:18	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			09/28/15 12:18	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			09/28/15 12:18	1
Chloroform	1.0	U	1.0	0.17	ug/L			09/28/15 12:18	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/28/15 12:18	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			09/28/15 12:18	1
Benzene	1.0	U	1.0	0.11	ug/L			09/28/15 12:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/28/15 12:18	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/28/15 12:18	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			09/28/15 12:18	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			09/28/15 12:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			09/28/15 12:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			09/28/15 12:18	1
Toluene	1.0	U	1.0	0.15	ug/L			09/28/15 12:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			09/28/15 12:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			09/28/15 12:18	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/28/15 12:18	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			09/28/15 12:18	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			09/28/15 12:18	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			09/28/15 12:18	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/28/15 12:18	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			09/28/15 12:18	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			09/28/15 12:18	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			09/28/15 12:18	1
Styrene	1.0	U	1.0	0.097	ug/L			09/28/15 12:18	1
Bromoform	1.0	U	1.0	0.19	ug/L			09/28/15 12:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			09/28/15 12:18	1
Acrylonitrile	20	U	20	0.55	ug/L			09/28/15 12:18	1
1,4-Dioxane	200	U	200	34	ug/L			09/28/15 12:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 135*		*09/28/15 12:18*	*1*
Toluene-d8 (Surr)	*107*		*71 - 118*		*09/28/15 12:18*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 118*		*09/28/15 12:18*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 128*		*09/28/15 12:18*	*1*

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

Lab Sample ID: LCS 180-155089/8
Matrix: Water
Analysis Batch: 155089

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	11.2		ug/L		112	50 - 139
Vinyl chloride	10.0	10.4		ug/L		104	53 - 138
Bromomethane	10.0	8.81		ug/L		88	33 - 150
Chloroethane	10.0	9.45		ug/L		94	36 - 142
1,1-Dichloroethene	10.0	7.60		ug/L		76	65 - 136
Acetone	20.0	16.9		ug/L		85	22 - 150
Carbon disulfide	10.0	8.01		ug/L		80	54 - 132
Methylene Chloride	10.0	8.09		ug/L		81	63 - 129
trans-1,2-Dichloroethene	10.0	8.09		ug/L		81	73 - 126
Methyl tert-butyl ether	10.0	8.15		ug/L		81	64 - 123
1,1-Dichloroethane	10.0	8.71		ug/L		87	73 - 126
cis-1,2-Dichloroethene	10.0	8.55		ug/L		85	70 - 120
Bromochloromethane	10.0	9.18		ug/L		92	70 - 127
2-Butanone (MEK)	20.0	21.9		ug/L		109	39 - 138
Chloroform	10.0	8.72		ug/L		87	72 - 127
1,1,1-Trichloroethane	10.0	8.27		ug/L		83	63 - 133
Carbon tetrachloride	10.0	8.45		ug/L		85	55 - 150
Benzene	10.0	8.93		ug/L		89	80 - 120
1,2-Dichloroethane	10.0	9.25		ug/L		93	68 - 132
Trichloroethene	10.0	10.1		ug/L		101	73 - 120
1,2-Dichloropropane	10.0	10.2		ug/L		102	76 - 124
Bromodichloromethane	10.0	8.87		ug/L		89	66 - 130
cis-1,3-Dichloropropene	10.0	9.69		ug/L		97	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	21.5		ug/L		108	45 - 145
Toluene	10.0	9.38		ug/L		94	80 - 123
trans-1,3-Dichloropropene	10.0	9.31		ug/L		93	65 - 125
1,1,2-Trichloroethane	10.0	9.86		ug/L		99	77 - 127
Tetrachloroethene	10.0	10.3		ug/L		103	70 - 135
2-Hexanone	20.0	23.5		ug/L		117	25 - 132
Dibromochloromethane	10.0	10.2		ug/L		102	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.3		ug/L		103	74 - 123
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	10.0	10.0		ug/L		100	63 - 140
Ethylbenzene	10.0	10.1		ug/L		101	72 - 126
Xylenes, Total	20.0	20.4		ug/L		102	76 - 128
Styrene	10.0	10.6		ug/L		106	71 - 127
Bromoform	10.0	11.1		ug/L		111	46 - 150
1,1,2,2-Tetrachloroethane	10.0	9.95		ug/L		99	62 - 125
Acrylonitrile	100	104		ug/L		104	30 - 140
1,4-Dioxane	200	187	J	ug/L		94	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 135*
Toluene-d8 (Surr)	*101*		*71 - 118*
4-Bromofluorobenzene (Surr)	*96*		*70 - 118*
Dibromofluoromethane (Surr)	*96*		*70 - 128*

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

Lab Sample ID: MB 180-155230/5
Matrix: Water
Analysis Batch: 155230

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			09/29/15 12:50	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/29/15 12:50	1
Bromomethane	1.0	U	1.0	0.31	ug/L			09/29/15 12:50	1
Chloroethane	1.0	U	1.0	0.21	ug/L			09/29/15 12:50	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/29/15 12:50	1
Acetone	5.0	U	5.0	2.5	ug/L			09/29/15 12:50	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			09/29/15 12:50	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			09/29/15 12:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/29/15 12:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			09/29/15 12:50	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			09/29/15 12:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/29/15 12:50	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			09/29/15 12:50	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			09/29/15 12:50	1
Chloroform	1.0	U	1.0	0.17	ug/L			09/29/15 12:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/29/15 12:50	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			09/29/15 12:50	1
Benzene	1.0	U	1.0	0.11	ug/L			09/29/15 12:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/15 12:50	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/29/15 12:50	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			09/29/15 12:50	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			09/29/15 12:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			09/29/15 12:50	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			09/29/15 12:50	1
Toluene	1.0	U	1.0	0.15	ug/L			09/29/15 12:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			09/29/15 12:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			09/29/15 12:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/29/15 12:50	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			09/29/15 12:50	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			09/29/15 12:50	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			09/29/15 12:50	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			09/29/15 12:50	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			09/29/15 12:50	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			09/29/15 12:50	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			09/29/15 12:50	1
Styrene	1.0	U	1.0	0.097	ug/L			09/29/15 12:50	1
Bromoform	1.0	U	1.0	0.19	ug/L			09/29/15 12:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			09/29/15 12:50	1
Acrylonitrile	20	U	20	0.55	ug/L			09/29/15 12:50	1
1,4-Dioxane	200	U	200	34	ug/L			09/29/15 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 135*		*09/29/15 12:50*	*1*
Toluene-d8 (Surr)	*107*		*71 - 118*		*09/29/15 12:50*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 118*		*09/29/15 12:50*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 128*		*09/29/15 12:50*	*1*

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

Lab Sample ID: LCS 180-155230/8
Matrix: Water
Analysis Batch: 155230

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	11.8		ug/L		118	50 - 139
Vinyl chloride	10.0	11.0		ug/L		110	53 - 138
Bromomethane	10.0	8.98		ug/L		90	33 - 150
Chloroethane	10.0	10.2		ug/L		102	36 - 142
1,1-Dichloroethene	10.0	8.12		ug/L		81	65 - 136
Acetone	20.0	22.2		ug/L		111	22 - 150
Carbon disulfide	10.0	7.88		ug/L		79	54 - 132
Methylene Chloride	10.0	8.48		ug/L		85	63 - 129
trans-1,2-Dichloroethene	10.0	8.49		ug/L		85	73 - 126
Methyl tert-butyl ether	10.0	8.25		ug/L		82	64 - 123
1,1-Dichloroethane	10.0	9.22		ug/L		92	73 - 126
cis-1,2-Dichloroethene	10.0	8.19		ug/L		82	70 - 120
Bromochloromethane	10.0	9.60		ug/L		96	70 - 127
2-Butanone (MEK)	20.0	22.3		ug/L		112	39 - 138
Chloroform	10.0	8.88		ug/L		89	72 - 127
1,1,1-Trichloroethane	10.0	8.29		ug/L		83	63 - 133
Carbon tetrachloride	10.0	9.19		ug/L		92	55 - 150
Benzene	10.0	9.41		ug/L		94	80 - 120
1,2-Dichloroethane	10.0	9.62		ug/L		96	68 - 132
Trichloroethene	10.0	10.7		ug/L		107	73 - 120
1,2-Dichloropropane	10.0	10.7		ug/L		107	76 - 124
Bromodichloromethane	10.0	9.04		ug/L		90	66 - 130
cis-1,3-Dichloropropene	10.0	9.54		ug/L		95	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	22.4		ug/L		112	45 - 145
Toluene	10.0	10.5		ug/L		105	80 - 123
trans-1,3-Dichloropropene	10.0	9.51		ug/L		95	65 - 125
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	77 - 127
Tetrachloroethene	10.0	11.0		ug/L		110	70 - 135
2-Hexanone	20.0	25.6		ug/L		128	25 - 132
Dibromochloromethane	10.0	10.5		ug/L		105	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.6		ug/L		106	74 - 123
Chlorobenzene	10.0	11.0		ug/L		110	80 - 120
1,1,1,2-Tetrachloroethane	10.0	10.9		ug/L		109	63 - 140
Ethylbenzene	10.0	11.1		ug/L		111	72 - 126
Xylenes, Total	20.0	22.1		ug/L		111	76 - 128
Styrene	10.0	11.8		ug/L		118	71 - 127
Bromoform	10.0	11.6		ug/L		116	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.8		ug/L		108	62 - 125
Acrylonitrile	100	108		ug/L		108	30 - 140
1,4-Dioxane	200	219		ug/L		109	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 135*
Toluene-d8 (Surr)	*110*		*71 - 118*
4-Bromofluorobenzene (Surr)	*101*		*70 - 118*
Dibromofluoromethane (Surr)	*99*		*70 - 128*

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

Lab Sample ID: MB 180-154864/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155320 — **Prep Batch: 154864**

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		09/25/15 09:58	09/30/15 12:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*28 - 109*	*09/25/15 09:58*	*09/30/15 12:51*	*1*
2-Fluorophenol (Surr)	*65*		*20 - 105*	*09/25/15 09:58*	*09/30/15 12:51*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*30 - 118*	*09/25/15 09:58*	*09/30/15 12:51*	*1*
Nitrobenzene-d5 (Surr)	*63*		*27 - 114*	*09/25/15 09:58*	*09/30/15 12:51*	*1*
Phenol-d5 (Surr)	*67*		*25 - 105*	*09/25/15 09:58*	*09/30/15 12:51*	*1*
Terphenyl-d14 (Surr)	*80*		*20 - 118*	*09/25/15 09:58*	*09/30/15 12:51*	*1*

Lab Sample ID: LCS 180-154864/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155320 — **Prep Batch: 154864**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			20.0	16.6		ug/L		83	36 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*28 - 109*
2-Fluorophenol (Surr)	*81*		*20 - 105*
2,4,6-Tribromophenol (Surr)	*90*		*30 - 118*
Nitrobenzene-d5 (Surr)	*76*		*27 - 114*
Phenol-d5 (Surr)	*85*		*25 - 105*
Terphenyl-d14 (Surr)	*86*		*20 - 118*

Lab Sample ID: LCSD 180-154864/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155320 — **Prep Batch: 154864**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			20.0	13.9		ug/L		70	36 - 100	18	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*28 - 109*
2-Fluorophenol (Surr)	*71*		*20 - 105*
2,4,6-Tribromophenol (Surr)	*83*		*30 - 118*
Nitrobenzene-d5 (Surr)	*69*		*27 - 114*
Phenol-d5 (Surr)	*71*		*25 - 105*
Terphenyl-d14 (Surr)	*79*		*20 - 118*

GC/MS VOA

Analysis Batch: 155089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-47935-1 - DL	HD-MW-129-0/1-0	Total/NA	Water	8260C	
180-47935-1	HD-MW-129-0/1-0	Total/NA	Water	8260C	
180-47935-2 - DL	HD-MW-131-0/1-0	Total/NA	Water	8260C	
180-47935-2	HD-MW-131-0/1-0	Total/NA	Water	8260C	
180-47935-3 - DL	HD-MW-132-0/1-0	Total/NA	Water	8260C	
180-47935-3	HD-MW-132-0/1-0	Total/NA	Water	8260C	
180-47935-4	HD-MW-134-0/1-0	Total/NA	Water	8260C	
180-47935-5 - DL	HD-MW-114-0/1-0	Total/NA	Water	8260C	
180-47935-7	HD-QC4-0/1-2	Total/NA	Water	8260C	
LCS 180-155089/8	Lab Control Sample	Total/NA	Water	8260C	
MB 180-155089/4	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 155230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-47935-5	HD-MW-114-0/1-0	Total/NA	Water	8260C	
180-47935-6	HD-MW-46-0/1-0	Total/NA	Water	8260C	
LCS 180-155230/8	Lab Control Sample	Total/NA	Water	8260C	
MB 180-155230/5	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 154864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-47935-1	HD-MW-129-0/1-0	Total/NA	Water	3520C	
180-47935-2	HD-MW-131-0/1-0	Total/NA	Water	3520C	
180-47935-3	HD-MW-132-0/1-0	Total/NA	Water	3520C	
180-47935-4	HD-MW-134-0/1-0	Total/NA	Water	3520C	
LCS 180-154864/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 180-154864/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 180-154864/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 155320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-47935-1	HD-MW-129-0/1-0	Total/NA	Water	8270D LL	154864
180-47935-2	HD-MW-131-0/1-0	Total/NA	Water	8270D LL	154864
180-47935-3	HD-MW-132-0/1-0	Total/NA	Water	8270D LL	154864
180-47935-4	HD-MW-134-0/1-0	Total/NA	Water	8270D LL	154864
LCS 180-154864/2-A	Lab Control Sample	Total/NA	Water	8270D LL	154864
LCSD 180-154864/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	154864
MB 180-154864/1-A	Method Blank	Total/NA	Water	8270D LL	154864

Client Sample ID: HD-MW-129-0/1-0

Lab Sample ID: 180-47935-1

Date Collected: 09/18/15 10:10

Matrix: Water

Date Received: 09/19/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	200	5 mL	5 mL	155089	09/28/15 17:35	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Analysis	8260C		20	5 mL	5 mL	155089	09/28/15 21:14	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Prep	3520C			270 mL	0.25 mL	154864	09/25/15 09:58	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	270 mL	0.25 mL	155320	09/30/15 14:45	VVP	TAL PIT
	Instrument ID: CH731									

Client Sample ID: HD-MW-131-0/1-0

Lab Sample ID: 180-47935-2

Date Collected: 09/18/15 10:07

Matrix: Water

Date Received: 09/19/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	40	5 mL	5 mL	155089	09/28/15 18:00	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Analysis	8260C		4	5 mL	5 mL	155089	09/28/15 21:38	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Prep	3520C			270 mL	0.25 mL	154864	09/25/15 09:58	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	270 mL	0.25 mL	155320	09/30/15 15:13	VVP	TAL PIT
	Instrument ID: CH731									

Client Sample ID: HD-MW-132-0/1-0

Lab Sample ID: 180-47935-3

Date Collected: 09/18/15 11:57

Matrix: Water

Date Received: 09/19/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	25	5 mL	5 mL	155089	09/28/15 18:24	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Analysis	8260C		2.5	5 mL	5 mL	155089	09/28/15 22:03	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Prep	3520C			270 mL	0.25 mL	154864	09/25/15 09:58	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	270 mL	0.25 mL	155320	09/30/15 15:42	VVP	TAL PIT
	Instrument ID: CH731									

Client Sample ID: HD-MW-134-0/1-0

Lab Sample ID: 180-47935-4

Date Collected: 09/18/15 13:32

Matrix: Water

Date Received: 09/19/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	155089	09/28/15 18:49	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Prep	3520C			270 mL	0.25 mL	154864	09/25/15 09:58	BJT	TAL PIT

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-47935-1

Client Sample ID: HD-MW-134-0/1-0
Date Collected: 09/18/15 13:32
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-4
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	8270D LL		1	270 mL	0.25 mL	155320	09/30/15 16:10	VVP	TAL PIT
	Instrument ID: CH731									

Client Sample ID: HD-MW-114-0/1-0
Date Collected: 09/18/15 12:20
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-5
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	DL	100	5 mL	5 mL	155089	09/28/15 19:13	DLF	TAL PIT
	Instrument ID: CHHP6									
Total/NA	Analysis	8260C		10	5 mL	5 mL	155230	09/29/15 22:24	DLF	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: HD-MW-46-0/1-0
Date Collected: 09/18/15 14:00
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-6
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		5	5 mL	5 mL	155230	09/29/15 15:55	DLF	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: HD-QC4-0/1-2
Date Collected: 09/18/15 12:00
Date Received: 09/19/15 09:00

Lab Sample ID: 180-47935-7
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	155089	09/28/15 20:50	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: 180-47935-1

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: 180-47935-1

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: 180-47935-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-47935-1	HD-MW-129-0/1-0	Water	09/18/15 10:10	09/19/15 09:00
180-47935-2	HD-MW-131-0/1-0	Water	09/18/15 10:07	09/19/15 09:00
180-47935-3	HD-MW-132-0/1-0	Water	09/18/15 11:57	09/19/15 09:00
180-47935-4	HD-MW-134-0/1-0	Water	09/18/15 13:32	09/19/15 09:00
180-47935-5	HD-MW-114-0/1-0	Water	09/18/15 12:20	09/19/15 09:00
180-47935-6	HD-MW-46-0/1-0	Water	09/18/15 14:00	09/19/15 09:00
180-47935-7	HD-QC4-0/1-2	Water	09/18/15 12:00	09/19/15 09:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

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.: 180-47935-1

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.: 180-47935-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 155089

Lab Sample ID: CCVIS 180-155089/2 Client Sample ID:

Date Analyzed: 09/28/15 11:03 Lab File ID: 60928002.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Incomplete Integration	fergusond	09/28/15 11:24

Lab Sample ID: LCS 180-155089/8 Client Sample ID:

Date Analyzed: 09/28/15 14:21 Lab File ID: 60928008.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	09/28/15 14:43

Lab Sample ID: 180-47935-2 DL Client Sample ID: HD-MW-131-0/1-0 DL

Date Analyzed: 09/28/15 18:00 Lab File ID: 60928017.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	5.20	Missed Peak	fergusond	09/29/15 08:28

Lab Sample ID: 180-47935-4 Client Sample ID: HD-MW-134-0/1-0

Date Analyzed: 09/28/15 18:49 Lab File ID: 60928019.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.89	Incomplete Integration	fergusond	09/29/15 08:32
trans-1,2-Dichloroethene	4.57	Incomplete Integration	fergusond	09/29/15 08:32

Lab Sample ID: 180-47935-5 DL Client Sample ID: HD-MW-114-0/1-0 DL

Date Analyzed: 09/28/15 19:13 Lab File ID: 60928020.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.34	Incomplete Integration	fergusond	09/29/15 08:34
Toluene	9.02	Incomplete Integration	fergusond	09/29/15 08:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 155089

Lab Sample ID: 180-47935-1 Client Sample ID: HD-MW-129-0/1-0

Date Analyzed: 09/28/15 21:14 Lab File ID: 60928025.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.35	Split Peak	fergusond	09/29/15 08:39

Lab Sample ID: 180-47935-2 Client Sample ID: HD-MW-131-0/1-0

Date Analyzed: 09/28/15 21:38 Lab File ID: 60928026.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	09/29/15 08:41
trans-1,2-Dichloroethene	4.57	Incomplete Integration	fergusond	09/29/15 08:41

Lab Sample ID: 180-47935-3 Client Sample ID: HD-MW-132-0/1-0

Date Analyzed: 09/28/15 22:03 Lab File ID: 60928027.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane	7.02	Incomplete Integration	fergusond	09/29/15 08:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 155230

Lab Sample ID: 180-47935-6 Client Sample ID: HD-MW-46-0/1-0

Date Analyzed: 09/29/15 15:55 Lab File ID: 60929012.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.77	Incomplete Integration	fergusond	09/30/15 08:12

Lab Sample ID: 180-47935-5 Client Sample ID: HD-MW-114-0/1-0

Date Analyzed: 09/29/15 22:24 Lab File ID: 60929028.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	5.20	Missed Peak	fergusond	09/30/15 08:40

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Instrument ID: CH731 Analysis Batch Number: 152241

Lab Sample ID: IC 180-152241/3 Client Sample ID:

Date Analyzed: 08/31/15 13:40 Lab File ID: V0901003.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.43	Poor chromatography	piccolinov	09/01/15 04:09
N-Nitrosodimethylamine	2.08	Poor chromatography	piccolinov	09/01/15 04:09
Pyridine	2.17	Poor chromatography	piccolinov	09/01/15 04:09
Benzoic acid	7.21	Poor chromatography	piccolinov	09/01/15 04:09
Benzidine	11.96	Poor chromatography	piccolinov	09/01/15 04:09
Bis(2-ethylhexyl) phthalate	14.04	Poor chromatography	piccolinov	09/01/15 04:09
Di-n-octyl phthalate	15.36	Poor chromatography	piccolinov	09/01/15 04:09
7,12-Dimethylbenz(a)anthracene	16.20	Poor chromatography	piccolinov	09/01/15 04:09
Benzo[e]pyrene	16.80	Poor chromatography	piccolinov	09/01/15 04:09
Dibenz(a,h)anthracene	19.31	Poor chromatography	piccolinov	09/01/15 04:09
Benzo[g,h,i]perylene	19.89	Poor chromatography	piccolinov	09/01/15 04:09

Lab Sample ID: IC 180-152241/4 Client Sample ID:

Date Analyzed: 08/31/15 14:08 Lab File ID: V0901004.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.21	Poor chromatography	piccolinov	09/01/15 04:10

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Instrument ID: CH731 Analysis Batch Number: 152241

Lab Sample ID: IC 180-152241/5 Client Sample ID:

Date Analyzed: 08/31/15 14:36 Lab File ID: V0901005.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.19	Poor chromatography	piccolino v	09/01/15 04:11

Lab Sample ID: ICIS 180-152241/6 Client Sample ID:

Date Analyzed: 08/31/15 15:03 Lab File ID: V0901006.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.20	Poor chromatography	piccolino v	09/01/15 04:12

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
OPLVISPKMIX1i_00043	02/25/16	08/25/15	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.: 180-47935-1

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.: 180-47935-1

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.: 180-47935-1

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.: 180-47935-1

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
SVEAJ2ndsourc_00006	12/31/15	07/12/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00008	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_00008	05/11/16	05/11/15	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
SVTAP2NDSRC2i_00006	12/13/15	05/13/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00008	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_00008	05/11/16	05/11/15	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
SVTAP2NDSRC3i_00008	12/13/15	05/13/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00008	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_00008	05/11/16	05/11/15	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
SVTAP2NDSRC3i_00008	12/13/15	05/13/15	MeCl2, Lot 1417620	1 mL	SVLVstd1_00034	10 uL	1,4-Dioxane	10 ug/mL
					SVLVSURRSPK_00001	2 uL	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
.SVLVstd1_00034	06/30/16		Restek, Lot A00107697		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
.SVLVSURRSPK_00001	01/31/18		Restek, Lot A092712		(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
SVTAP2NDSRCEi_00009	12/13/15	05/13/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00008	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_00008	05/11/16	05/11/15	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
SVTAP2NDSRCEi_00009	12/13/15	05/13/15	MeCl2, Lot 1417620	1 mL	SVLVstd1_00034	10 uL	1,4-Dioxane	10 ug/mL
					SVLVSURRSPK_00001	2 uL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	10 ug/mL
.SVLVstd1_00034	06/30/16		Restek, Lot A00107697		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
.SVLVSURRSPK_00001	01/31/18		Restek, Lot A092712		(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
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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	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
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	40 ug/mL
							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
					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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-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_00124	09/04/15	08/28/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..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_00128	10/07/15	09/30/15	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_00128	10/07/15	09/30/15	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

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.: 180-47935-1

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.: 180-47935-1

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.: 180-47935-1

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
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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

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	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Hexadecane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

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.: 180-47935-1

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.: 180-47935-1

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.: 180-47935-1

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.: 180-47935-1

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
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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	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
..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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	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
					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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	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
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
VOA8260VOA2ND_00144	10/01/15	09/24/15	Methanol, Lot 99494	10 mL	VOA8260GAS2ND_00114	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOA2ND_00141	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_00114	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_00141	10/03/15	09/03/15	Methanol, Lot 85233	10 mL	VOA8260MEGA2_00036	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
..VOA8260MEGA2_00036	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							4-Isopropyltoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-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
							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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00145	10/01/15	09/24/15	Methanol, Lot 99494	10 mL	VOA8260GAS1ST_00117	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00142	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
.VOA8260GAS1ST_00117	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_00142	10/03/15	09/03/15	Methanol, Lot 85233	10 mL	VOA8260MEGA1_00033	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_00033	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

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

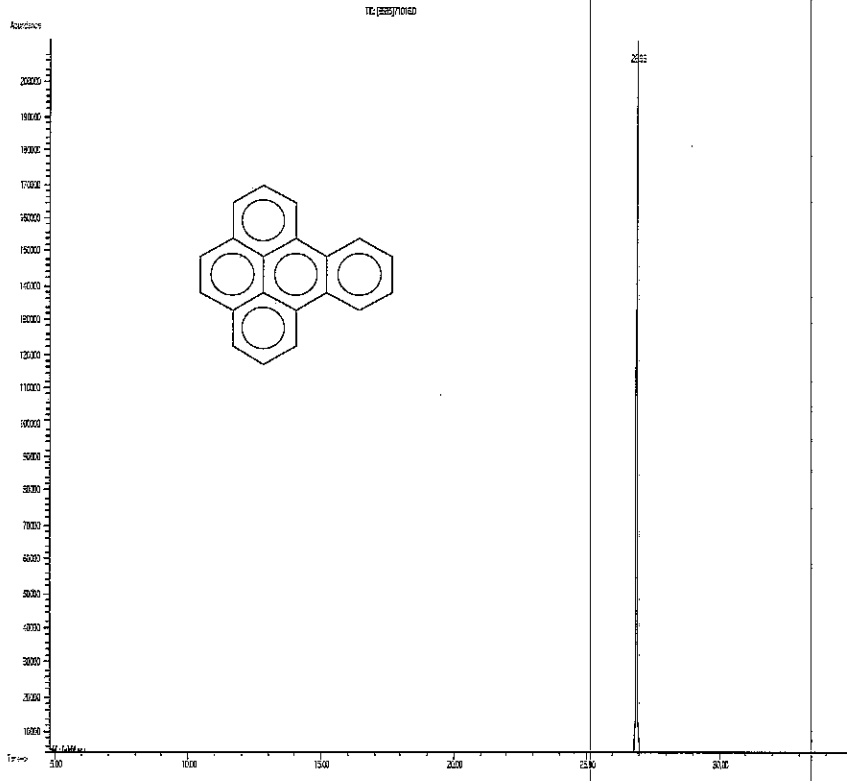
Solvent(s): Lot # 44325 Methylene chloride

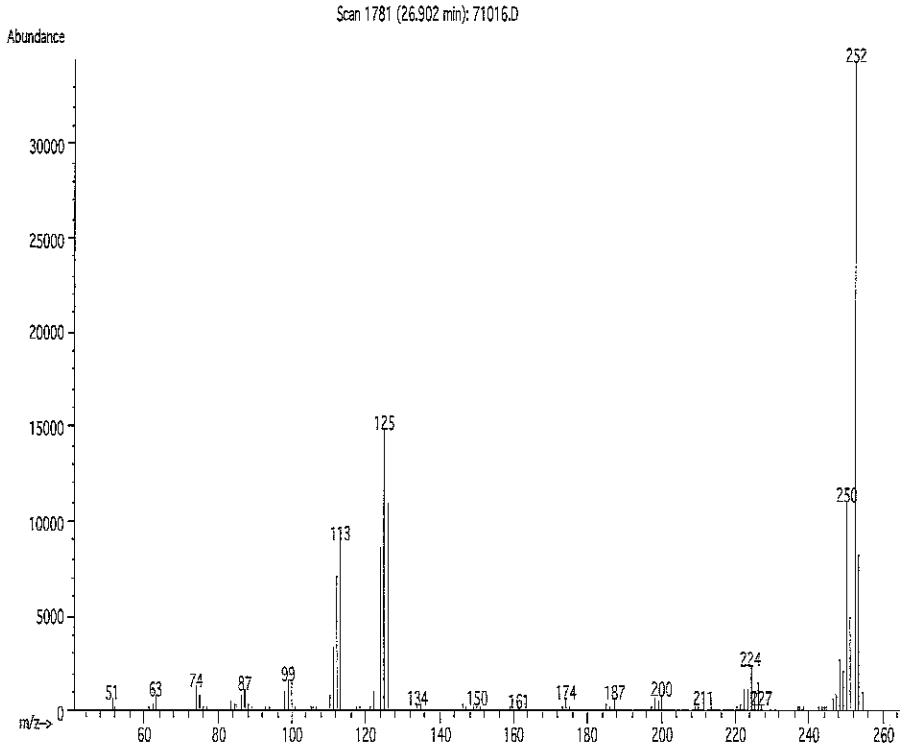
Weight(s) shown below were combined and diluted to: 100.0 5E-05 Balance Uncertainty 0.003 Flask Uncertainty

Formulated By:	Paul Barron	100313 DATE
Reviewed By:	Pedro L. Rentas	100313 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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ISO 17025-34-35-43 Accredited
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

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

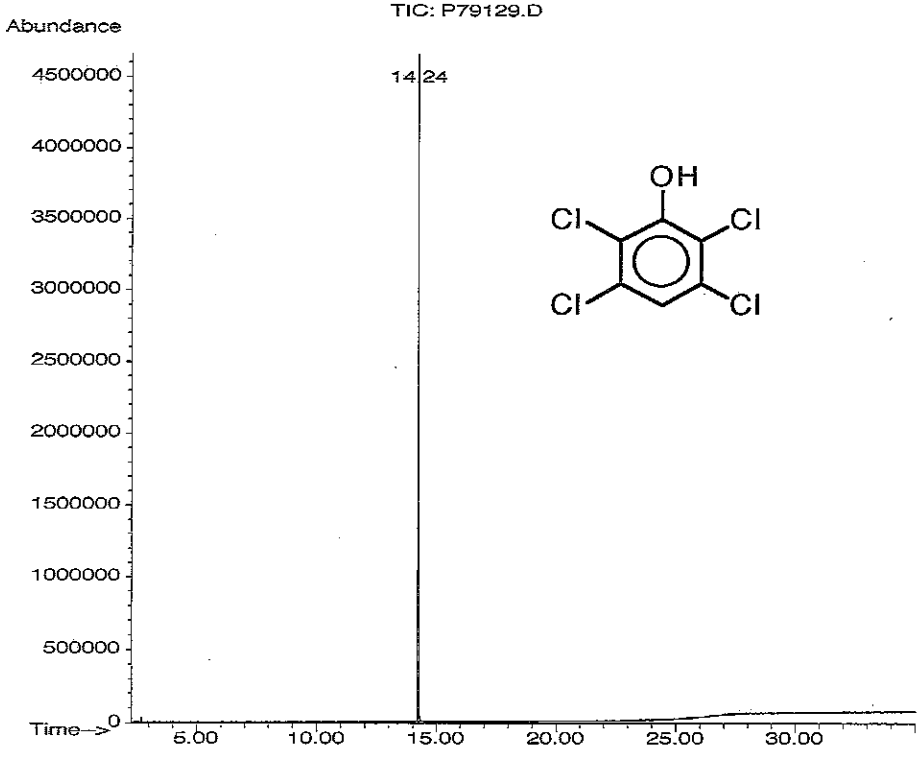
Formulated By: Pat Scaturchio 061711 DATE

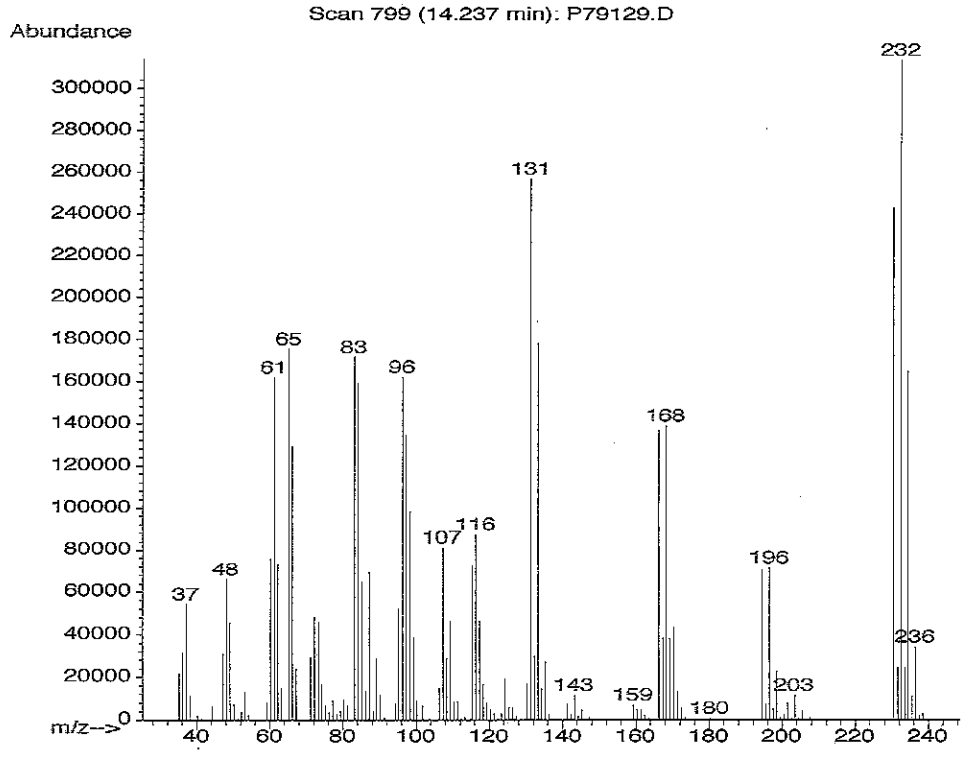
Reviewed By: Pedro L. Rentas 061711 DATE

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.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Reagent

sv712dimbenza_00011

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Certified Reference Material CRM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

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		

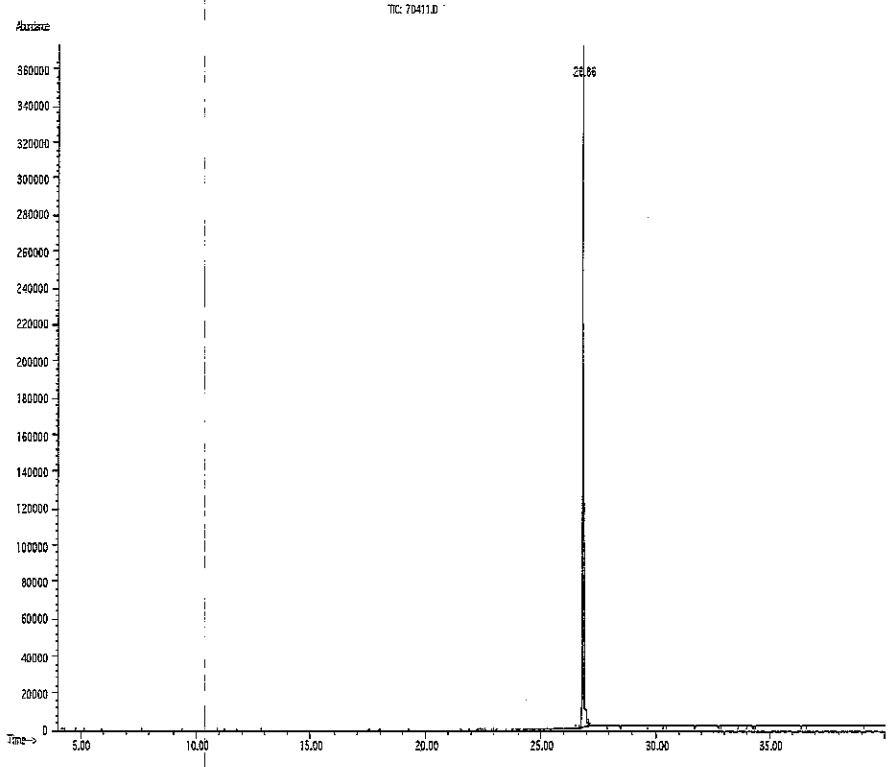
Weight(s) shown below were combined and diluted to (mL): 25.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

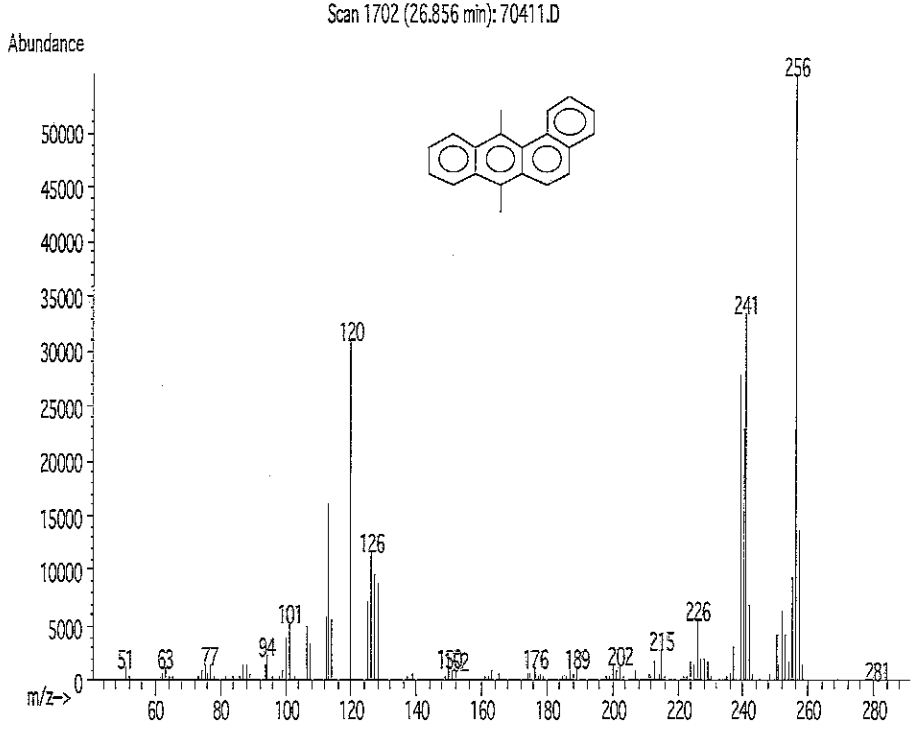
Paul Barron	040915	
Formulated By: Paul Barron	DATE	
Pedro L. Rentas	040915	
Reviewed By: Pedro L. Rentas	DATE	

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. 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

RESTEK

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700936
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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.

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)

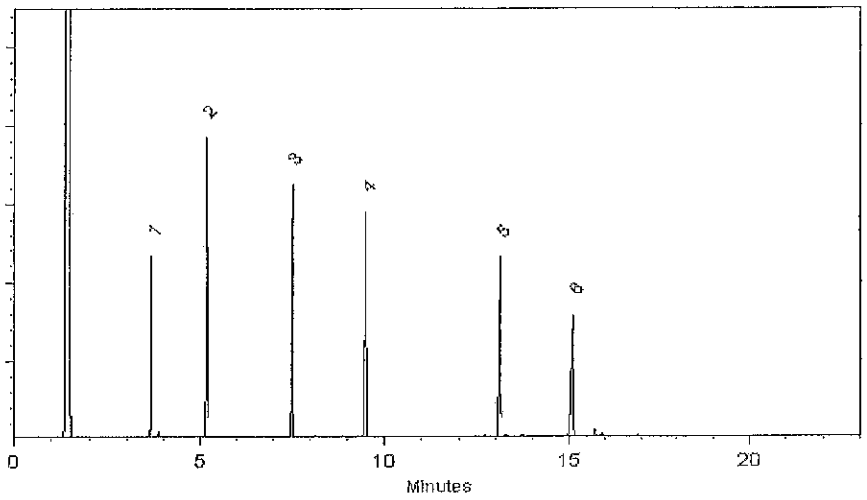
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

RESTEK

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 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)

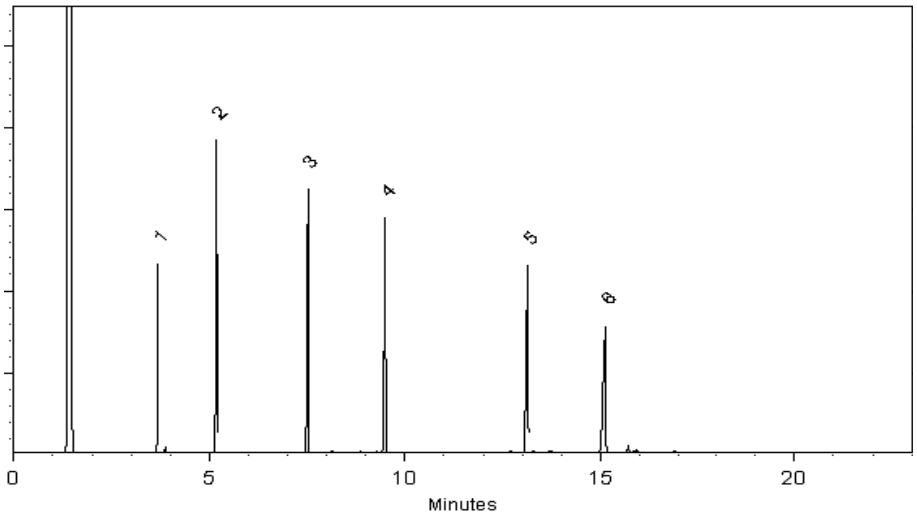
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 #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.:** 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)

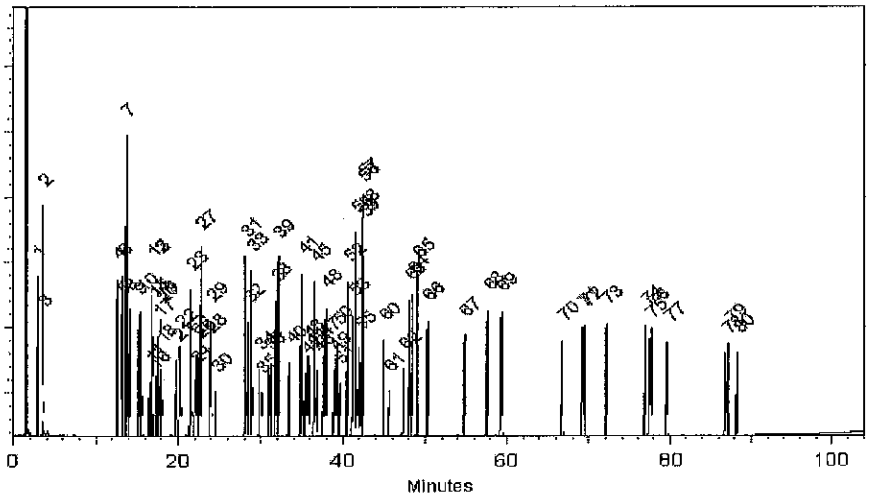
Carrier Gas:
hydrogen-constant pressure 10 psi

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

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569729.SEC **Lot No.:** A0107697

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 : June 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	1,005.6 µg/mL	+/- 5.8602 µg/mL	Gravimetric
	CAS # 123-91-1.SEC (Lot CHA4A)		+/- 11.0172 µg/mL	Unstressed
	Purity 99%		+/- 18.6790 µg/mL	Stressed
2	Pyridine	1,000.2 µg/mL	+/- 5.8287 µg/mL	Gravimetric
	CAS # 110-86-1.SEC (Lot QN8DK)		+/- 10.9580 µg/mL	Unstressed
	Purity 99%		+/- 18.5787 µg/mL	Stressed
3	N-Nitrosodimethylamine	1,004.1 µg/mL	+/- 5.8515 µg/mL	Gravimetric
	CAS # 62-75-9.SEC (Lot 41B67)		+/- 11.0008 µg/mL	Unstressed
	Purity 98%		+/- 18.6513 µg/mL	Stressed
4	Aniline	1,002.8 µg/mL	+/- 5.8438 µg/mL	Gravimetric
	CAS # 62-53-3.SEC (Lot ZCD3N)		+/- 10.9865 µg/mL	Unstressed
	Purity 99%		+/- 18.6270 µg/mL	Stressed
5	Bis(2-chloroethyl)ether	1,002.4 µg/mL	+/- 5.8415 µg/mL	Gravimetric
	CAS # 111-44-4.SEC (Lot FA010143)		+/- 10.9821 µg/mL	Unstressed
	Purity 99%		+/- 18.6196 µg/mL	Stressed
6	2-Chlorophenol	1,006.0 µg/mL	+/- 5.8625 µg/mL	Gravimetric
	CAS # 95-57-8.SEC (Lot GJ01)		+/- 11.0216 µg/mL	Unstressed
	Purity 99%		+/- 18.6864 µg/mL	Stressed
7	Phenol	1,004.2 µg/mL	+/- 5.8520 µg/mL	Gravimetric
	CAS # 108-95-2.SEC (Lot EDPYN)		+/- 11.0019 µg/mL	Unstressed
	Purity 99%		+/- 18.6530 µg/mL	Stressed

24	Bis(2-chloroethoxy)methane		1,005.0	µg/mL	+/-	5.8567	µg/mL	Gravimetric
	CAS # 111-91-1 *	(Lot 317200)			+/-	11.0106	µg/mL	Unstressed
	Purity 99%				+/-	18.6679	µg/mL	Stressed
25	2,4-Dichlorophenol		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 120-83-2.SEC	(Lot FHM01)			+/-	10.9734	µg/mL	Unstressed
	Purity 99%				+/-	18.6047	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot OGO01)			+/-	10.9778	µg/mL	Unstressed
	Purity 99%				+/-	18.6121	µg/mL	Stressed
27	Naphthalene		1,006.4	µg/mL	+/-	5.8648	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)			+/-	11.0260	µg/mL	Unstressed
	Purity 99%				+/-	18.6939	µg/mL	Stressed
28	2,6-Dichlorophenol		1,005.6	µg/mL	+/-	5.8602	µg/mL	Gravimetric
	CAS # 87-65-0.SEC	(Lot SIDBB)			+/-	11.0172	µg/mL	Unstressed
	Purity 99%				+/-	18.6790	µg/mL	Stressed
29	4-Chloroaniline		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 106-47-8.SEC	(Lot 10171860)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed
30	Hexachlorobutadiene		1,002.4	µg/mL	+/-	5.8415	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 2009400)			+/-	10.9821	µg/mL	Unstressed
	Purity 97%				+/-	18.6195	µg/mL	Stressed
31	2-Methylnaphthalene		1,001.0	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	10.9668	µg/mL	Unstressed
	Purity 99%				+/-	18.5936	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,006.8	µg/mL	+/-	5.8671	µg/mL	Gravimetric
	CAS # 59-50-7.SEC	(Lot FDO02)			+/-	11.0303	µg/mL	Unstressed
	Purity 99%				+/-	18.7013	µg/mL	Stressed
33	1-Methylnaphthalene		1,003.8	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 90-12-0.SEC	(Lot UATSA)			+/-	10.9975	µg/mL	Unstressed
	Purity 99%				+/-	18.6456	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,002.6	µg/mL	+/-	5.8427	µg/mL	Gravimetric
	CAS # 95-94-3.SEC	(Lot AF02)			+/-	10.9843	µg/mL	Unstressed
	Purity 99%				+/-	18.6233	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS # 77-47-4.SEC	(Lot 0012013)			+/-	10.9997	µg/mL	Unstressed
	Purity 99%				+/-	18.6493	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,006.7	µg/mL	+/-	5.8663	µg/mL	Gravimetric
	CAS # 88-06-2.SEC	(Lot UUMYM)			+/-	11.0288	µg/mL	Unstressed
	Purity 98%				+/-	18.6986	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,002.8	µg/mL	+/-	5.8438	µg/mL	Gravimetric
	CAS # 95-95-4.SEC	(Lot MKBQ9937V)			+/-	10.9864	µg/mL	Unstressed
	Purity 97%				+/-	18.6267	µg/mL	Stressed
38	2-Chloronaphthalene		1,006.4	µg/mL	+/-	5.8648	µg/mL	Gravimetric
	CAS # 91-58-7.SEC	(Lot LC03928V)			+/-	11.0260	µg/mL	Unstressed
	Purity 99%				+/-	18.6939	µg/mL	Stressed
39	Biphenyl		1,005.8	µg/mL	+/-	5.8613	µg/mL	Gravimetric
	CAS # 92-52-4.SEC	(Lot 330QE)			+/-	11.0194	µg/mL	Unstressed
	Purity 99%				+/-	18.6827	µg/mL	Stressed

56	Azobenzene		1,003.2	µg/mL	+/-	5.8462	µg/mL	Gravimetric
	CAS # 103-33-3.SEC	(Lot JUWAG)			+/-	10.9909	µg/mL	Unstressed
	Purity 99%				+/-	18.6344	µg/mL	Stressed
57	Diphenylamine		1,711.8	µg/mL	+/-	9.9756	µg/mL	Gravimetric
	CAS # 122-39-4.SEC	(Lot 10164691)			+/-	18.7542	µg/mL	Unstressed
	Purity 99%				+/-	31.7967	µg/mL	Stressed
58	2-Nitroaniline		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 88-74-4.SEC	(Lot T6E7B)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,009.8	µg/mL	+/-	11.6852	µg/mL	Gravimetric
	CAS # 534-52-1.SEC	(Lot 1791900)			+/-	22.0047	µg/mL	Unstressed
	Purity 99%				+/-	37.3236	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,003.8	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 101-55-3.SEC	(Lot 84C6D)			+/-	10.9975	µg/mL	Unstressed
	Purity 99%				+/-	18.6456	µg/mL	Stressed
61	Hexachlorobenzene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 118-74-1.SEC	(Lot 20625)			+/-	10.9558	µg/mL	Unstressed
	Purity 98%				+/-	18.5748	µg/mL	Stressed
62	Pentachlorophenol		2,002.2	µg/mL	+/-	11.6410	µg/mL	Gravimetric
	CAS # 87-86-5.SEC	(Lot 1239600)			+/-	21.9215	µg/mL	Unstressed
	Purity 99%				+/-	37.1824	µg/mL	Stressed
63	Phenanthrene		1,004.4	µg/mL	+/-	5.8532	µg/mL	Gravimetric
	CAS # 85-01-8.SEC	(Lot 1238300)			+/-	11.0040	µg/mL	Unstressed
	Purity 99%				+/-	18.6567	µg/mL	Stressed
64	n-Octadecane (C18)		1,001.2	µg/mL	+/-	5.8345	µg/mL	Gravimetric
	CAS # 593-45-3.SEC	(Lot G14U045)			+/-	10.9690	µg/mL	Unstressed
	Purity 99%				+/-	18.5973	µg/mL	Stressed
65	Anthracene		1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS # 120-12-7.SEC	(Lot WDFNJ)			+/-	10.9624	µg/mL	Unstressed
	Purity 99%				+/-	18.5861	µg/mL	Stressed
66	Carbazole		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 86-74-8.SEC	(Lot LMIZB)			+/-	10.9756	µg/mL	Unstressed
	Purity 99%				+/-	18.6084	µg/mL	Stressed
67	Di-n-butylphthalate		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 84-74-2.SEC	(Lot 42FSG)			+/-	10.9646	µg/mL	Unstressed
	Purity 99%				+/-	18.5899	µg/mL	Stressed
68	Fluoranthene		1,002.6	µg/mL	+/-	5.8427	µg/mL	Gravimetric
	CAS # 206-44-0.SEC	(Lot FREGF)			+/-	10.9843	µg/mL	Unstressed
	Purity 99%				+/-	18.6233	µg/mL	Stressed
69	Pyrene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 129-00-0.SEC	(Lot ROVJC)			+/-	10.9558	µg/mL	Unstressed
	Purity 99%				+/-	18.5750	µg/mL	Stressed
70	Benzyl butyl phthalate		1,004.5	µg/mL	+/-	5.8537	µg/mL	Gravimetric
	CAS # 85-68-7.SEC	(Lot GX3GL)			+/-	11.0051	µg/mL	Unstressed
	Purity 98%				+/-	18.6586	µg/mL	Stressed
71	Benz(a)anthracene		999.7	µg/mL	+/-	5.8257	µg/mL	Gravimetric
	CAS # 56-55-3.SEC	(Lot MTENF)			+/-	10.9524	µg/mL	Unstressed
	Purity 97%				+/-	18.5691	µg/mL	Stressed

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

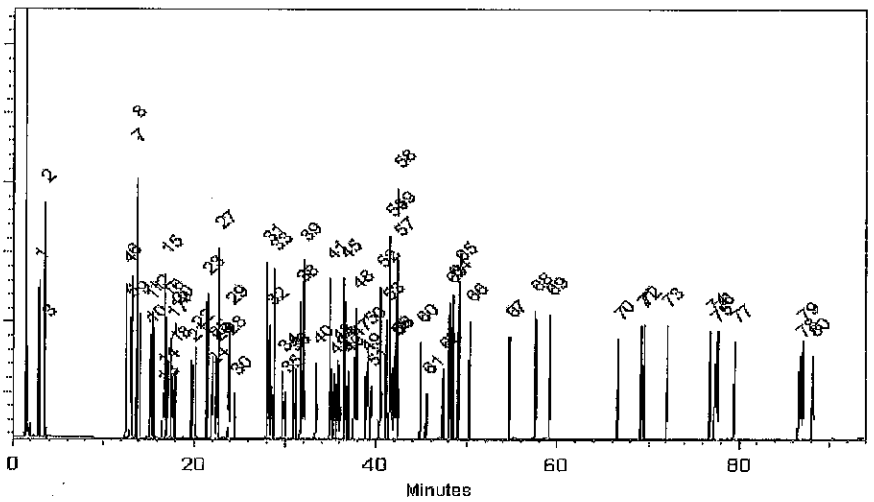
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Brandon Reish - Mix Technician

Date Mixed: 10-Dec-2014 **Balance:** 1128353505

Tyler Brown - QA Analyst

Date Passed: 23-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)

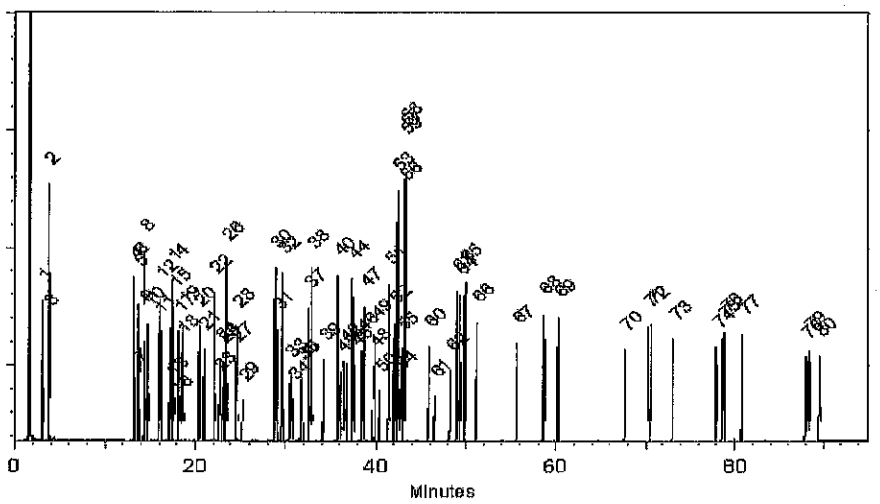
Carrier Gas:
hydrogen-constant pressure 10 psi

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 of Analysis

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Reference Material Producer
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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Catalog No. : 569730 **Lot No.:** A0108709

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : July 31, 2016 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzidine **CAS #** 92-87-5 (Lot 141208JLM) **Purity** 99%	2,006.6 µg/mL	+/- 11.6665 +/- 21.9697 +/- 37.2641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	3,3'-Dichlorobenzidine **CAS #** 91-94-1 (Lot 141205JLM) **Purity** 99%	2,001.0 µg/mL	+/- 11.6340 +/- 21.9083 +/- 37.1601	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

Reagent

SVLVSURRSPK_00001

SV LV SURR

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Certificate of Composition

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. : 567685 **Lot No.:** A092712

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : January 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9947	µg/mL	Unstressed
	Purity 99%		+/- 163.4399	µg/mL	Stressed
Solvent:	Methylene Chloride				
	CAS # 75-09-2				
	Purity 99%				

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Reagent

SVLVSURRSPK_00011

SV 8270 SURROGATE

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567685 **Lot No.:** 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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CERTIFIED WEIGHT REPORT

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

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

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

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

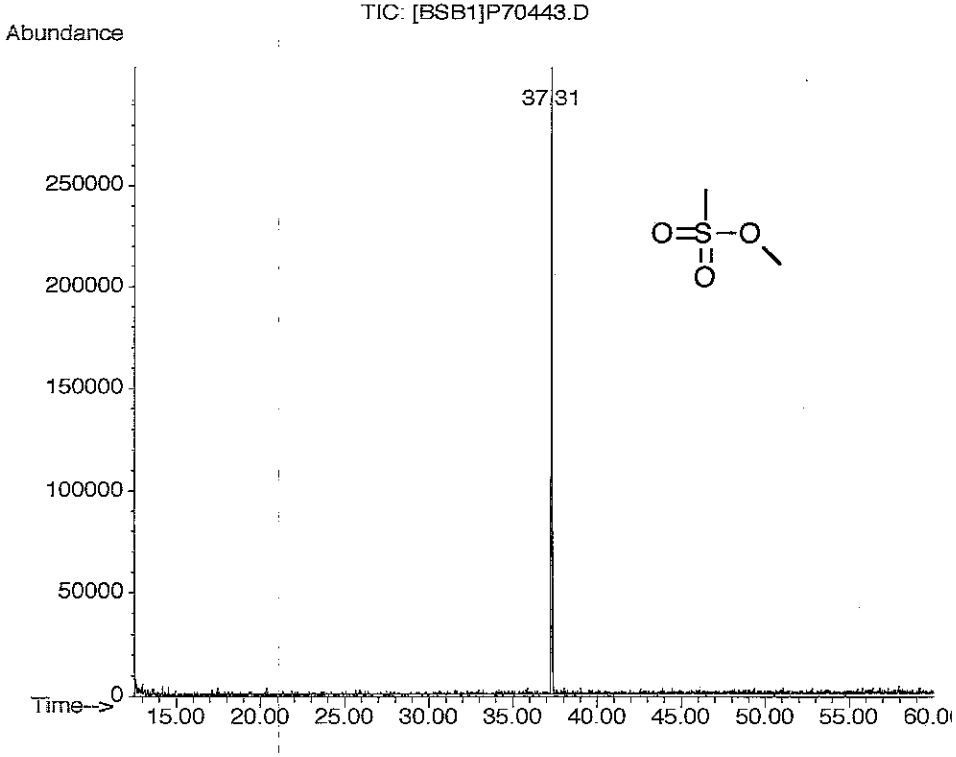
Formulated By: Paul Barron 021315 DATE

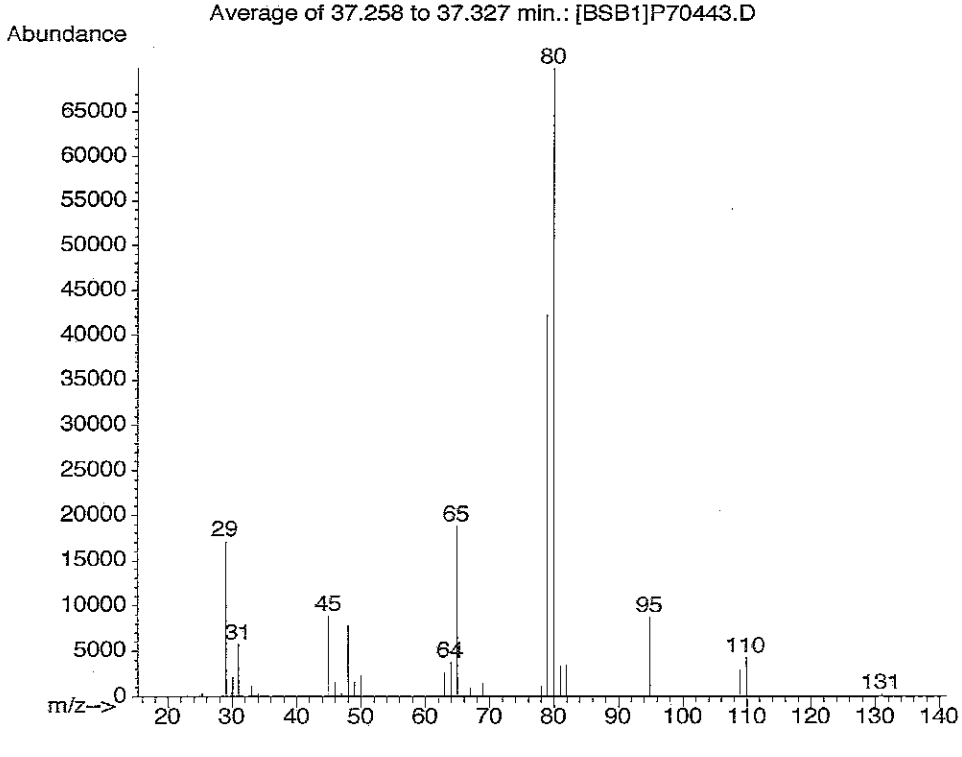
Reviewed By: Pedro L. Rentas 021315 DATE

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 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

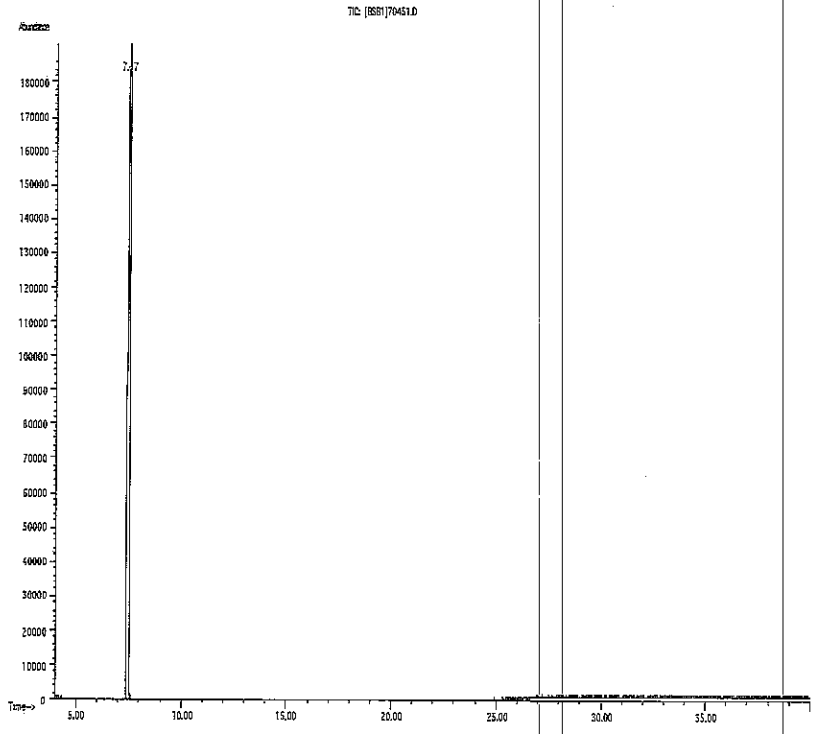
Formulated By: Paul Barron 060514 DATE

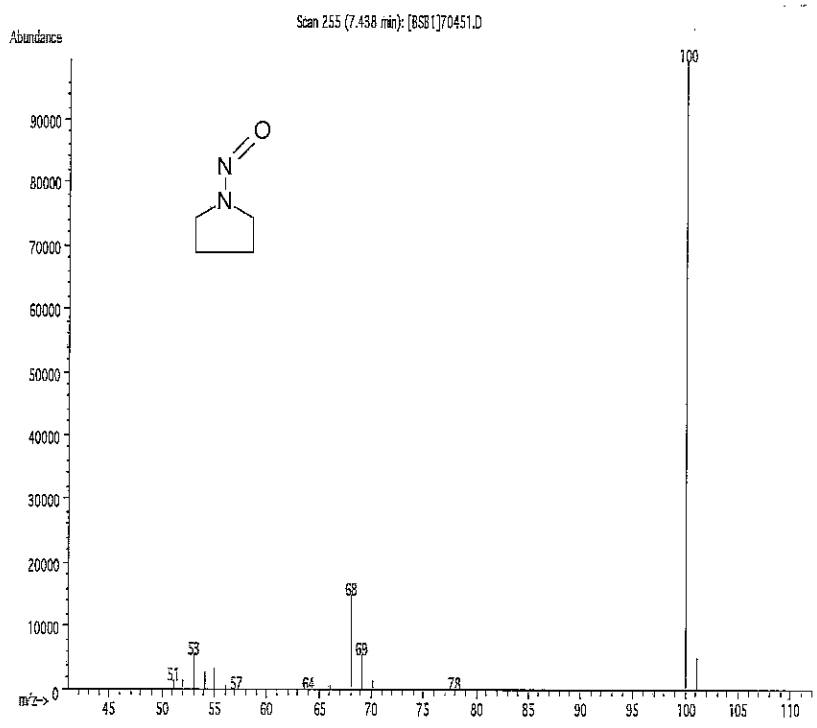
Reviewed By: Pedro L. Rentas 060514 DATE

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)

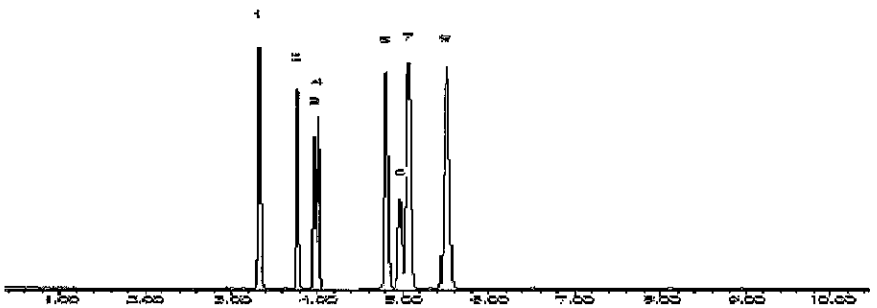
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

VOA8260GAS1ST_00117

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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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)

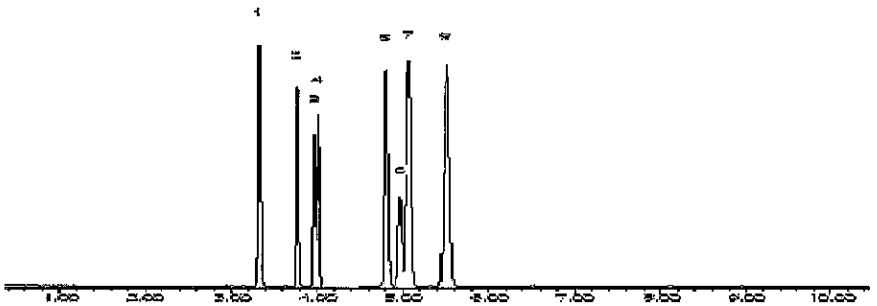
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

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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

VOA8260INTRES_00068

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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

VOA8260KET1ST_00046

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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

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 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 **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

VOA8260KET2ND_00054

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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 **CAS #** 67-64-1.SEC **Purity** 99%	(Lot P14A572)	12,528.0	µg/mL	+/- 73.3542 +/- 666.7690 +/- 667.5042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC **Purity** 99%	(Lot RA58J)	12,530.0	µg/mL	+/- 73.3659 +/- 666.8755 +/- 667.6108	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC **Purity** 99%	(Lot E29T040)	12,585.0	µg/mL	+/- 73.6879 +/- 669.8027 +/- 670.5412	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC **Purity** 99%	(Lot ZSVCD-FF)	12,516.0	µg/mL	+/- 73.2839 +/- 666.1304 +/- 666.8648	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

VOA8260MEGA1_00030

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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. : 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)

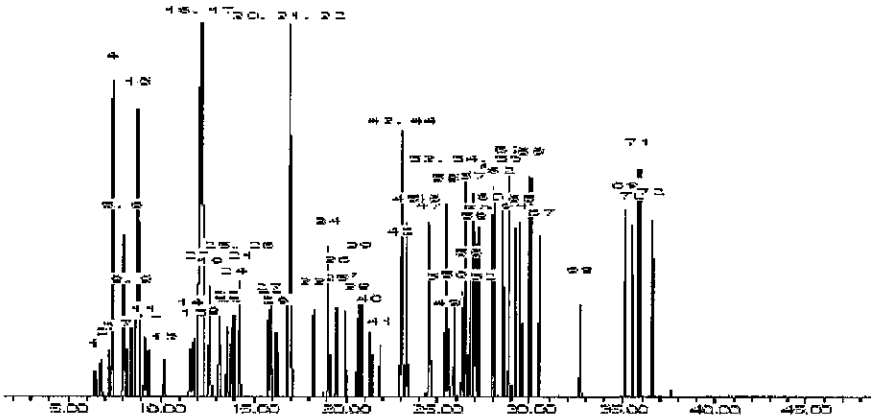
Carrier Gas:
helium-constant pressure 30 psi

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_00033

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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 µg/mL +/- 134.1754 µg/mL +/- 134.3233 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 µg/mL +/- 134.2419 µg/mL +/- 134.3899 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 µg/mL +/- 133.0173 µg/mL +/- 133.1640 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBC6893V) **Purity** 99%	25,002.4 µg/mL	+/- 145.3584 µg/mL +/- 1,330.5704 µg/mL +/- 1,332.0378 µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBC7288V) **Purity** 99%	2,510.0 µg/mL	+/- 14.5934 µg/mL +/- 133.5767 µg/mL +/- 133.7240 µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9 (Lot SHBD7134V) **Purity** 98%	12,505.4 µg/mL	+/- 72.7037 µg/mL +/- 665.5101 µg/mL +/- 666.2440 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 µg/mL +/- 133.6453 µg/mL +/- 133.7914 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)

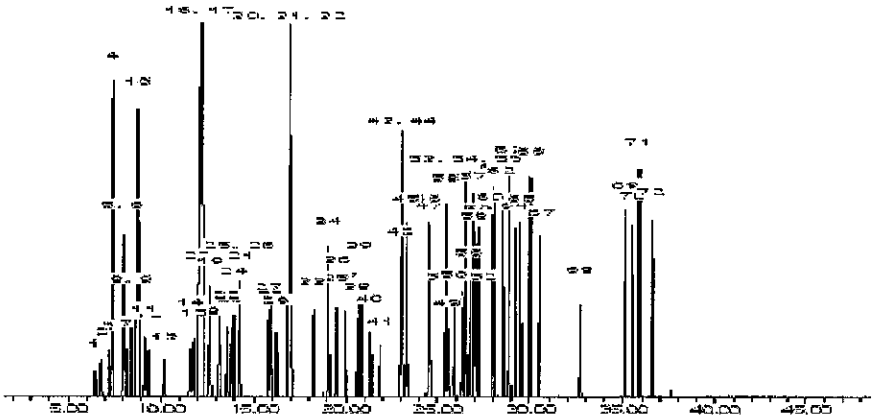
Carrier Gas:
helium-constant pressure 30 psi

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_00036

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

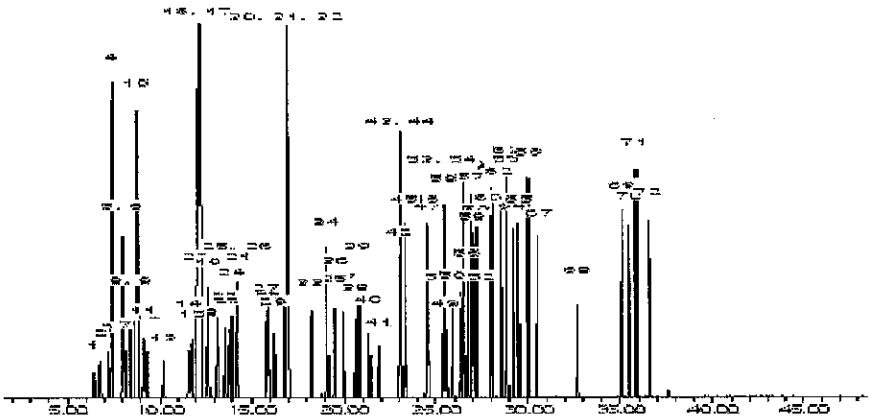
Carrier Gas:
helium-constant pressure 30 psi

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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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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		2,509.6 µg/mL	+/- 14.5910	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 022012)		+/- 28.2993	µg/mL	Unstressed
	Purity 99%			+/- 32.5644	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,508.2 µg/mL	+/- 14.5829	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot 12K-027)		+/- 28.2836	µg/mL	Unstressed
	Purity 99%			+/- 32.5462	µg/mL	Stressed
3	Toluene-d8		2,508.8 µg/mL	+/- 14.5864	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot 13I-050)		+/- 28.2903	µg/mL	Unstressed
	Purity 99%			+/- 32.5540	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,509.8 µg/mL	+/- 14.5922	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 01127COV)		+/- 28.3016	µg/mL	Unstressed
	Purity 99%			+/- 32.5670	µg/mL	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 **CAS #** 108-05-4 (Lot STBC8935V) **Purity** 99%	5,023.0 µg/mL	+/- 29.4778 µg/mL +/- 267.3430 µg/mL +/- 267.6378 µg/mL	Gravimetric Unstressed 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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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. : 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.: 180-47935-1

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-129-0/1-0	180-47935-1	101	104	108	98
HD-MW-129-0/1-0 DL	180-47935-1 DL	96	103	113	99
HD-MW-131-0/1-0	180-47935-2	97	102	106	90
HD-MW-131-0/1-0 DL	180-47935-2 DL	99	101	105	94
HD-MW-132-0/1-0	180-47935-3	103	105	111	96
HD-MW-132-0/1-0 DL	180-47935-3 DL	96	102	110	99
HD-MW-134-0/1-0	180-47935-4	98	103	105	93
HD-MW-114-0/1-0	180-47935-5	104	103	105	89
HD-MW-114-0/1-0 DL	180-47935-5 DL	99	103	108	98
HD-MW-46-0/1-0	180-47935-6	96	101	106	93
HD-QC4-0/1-2	180-47935-7	99	105	105	93
	MB 180-155089/4	90	99	107	95
	MB 180-155230/5	100	100	107	92
	LCS 180-155089/8	96	98	101	96
	LCS 180-155230/8	99	106	110	101

	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.: 180-47935-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 60928008.D

Lab ID: LCS 180-155089/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	11.2	112	50-139	
Vinyl chloride	10.0	10.4	104	53-138	
Bromomethane	10.0	8.81	88	33-150	
Chloroethane	10.0	9.45	94	36-142	
1,1-Dichloroethene	10.0	7.60	76	65-136	
Acetone	20.0	16.9	85	22-150	
Carbon disulfide	10.0	8.01	80	54-132	
Methylene Chloride	10.0	8.09	81	63-129	
trans-1,2-Dichloroethene	10.0	8.09	81	73-126	
Methyl tert-butyl ether	10.0	8.15	81	64-123	
1,1-Dichloroethane	10.0	8.71	87	73-126	
cis-1,2-Dichloroethene	10.0	8.55	85	70-120	
Bromochloromethane	10.0	9.18	92	70-127	
2-Butanone (MEK)	20.0	21.9	109	39-138	
Chloroform	10.0	8.72	87	72-127	
1,1,1-Trichloroethane	10.0	8.27	83	63-133	
Carbon tetrachloride	10.0	8.45	85	55-150	
Benzene	10.0	8.93	89	80-120	
1,2-Dichloroethane	10.0	9.25	93	68-132	
Trichloroethene	10.0	10.1	101	73-120	
1,2-Dichloropropane	10.0	10.2	102	76-124	
Bromodichloromethane	10.0	8.87	89	66-130	
cis-1,3-Dichloropropene	10.0	9.69	97	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	21.5	108	45-145	
Toluene	10.0	9.38	94	80-123	
trans-1,3-Dichloropropene	10.0	9.31	93	65-125	
1,1,2-Trichloroethane	10.0	9.86	99	77-127	
Tetrachloroethene	10.0	10.3	103	70-135	
2-Hexanone	20.0	23.5	117	25-132	
Dibromochloromethane	10.0	10.2	102	60-140	
1,2-Dibromoethane (EDB)	10.0	10.3	103	74-123	
Chlorobenzene	10.0	10.2	102	80-120	
1,1,1,2-Tetrachloroethane	10.0	10.0	100	63-140	
Ethylbenzene	10.0	10.1	101	72-126	
Xylenes, Total	20.0	20.4	102	76-128	
Styrene	10.0	10.6	106	71-127	
Bromoform	10.0	11.1	111	46-150	
1,1,2,2-Tetrachloroethane	10.0	9.95	99	62-125	
Acrylonitrile	100	104	104	30-140	
1,4-Dioxane	200	187 J	94	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.: 180-47935-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 60929008.D

Lab ID: LCS 180-155230/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	11.8	118	50-139	
Vinyl chloride	10.0	11.0	110	53-138	
Bromomethane	10.0	8.98	90	33-150	
Chloroethane	10.0	10.2	102	36-142	
1,1-Dichloroethene	10.0	8.12	81	65-136	
Acetone	20.0	22.2	111	22-150	
Carbon disulfide	10.0	7.88	79	54-132	
Methylene Chloride	10.0	8.48	85	63-129	
trans-1,2-Dichloroethene	10.0	8.49	85	73-126	
Methyl tert-butyl ether	10.0	8.25	82	64-123	
1,1-Dichloroethane	10.0	9.22	92	73-126	
cis-1,2-Dichloroethene	10.0	8.19	82	70-120	
Bromochloromethane	10.0	9.60	96	70-127	
2-Butanone (MEK)	20.0	22.3	112	39-138	
Chloroform	10.0	8.88	89	72-127	
1,1,1-Trichloroethane	10.0	8.29	83	63-133	
Carbon tetrachloride	10.0	9.19	92	55-150	
Benzene	10.0	9.41	94	80-120	
1,2-Dichloroethane	10.0	9.62	96	68-132	
Trichloroethene	10.0	10.7	107	73-120	
1,2-Dichloropropane	10.0	10.7	107	76-124	
Bromodichloromethane	10.0	9.04	90	66-130	
cis-1,3-Dichloropropene	10.0	9.54	95	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	22.4	112	45-145	
Toluene	10.0	10.5	105	80-123	
trans-1,3-Dichloropropene	10.0	9.51	95	65-125	
1,1,2-Trichloroethane	10.0	10.1	101	77-127	
Tetrachloroethene	10.0	11.0	110	70-135	
2-Hexanone	20.0	25.6	128	25-132	
Dibromochloromethane	10.0	10.5	105	60-140	
1,2-Dibromoethane (EDB)	10.0	10.6	106	74-123	
Chlorobenzene	10.0	11.0	110	80-120	
1,1,1,2-Tetrachloroethane	10.0	10.9	109	63-140	
Ethylbenzene	10.0	11.1	111	72-126	
Xylenes, Total	20.0	22.1	111	76-128	
Styrene	10.0	11.8	118	71-127	
Bromoform	10.0	11.6	116	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.8	108	62-125	
Acrylonitrile	100	108	108	30-140	
1,4-Dioxane	200	219	109	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.: 180-47935-1

SDG No.:

Lab File ID: 60928004.D Lab Sample ID: MB 180-155089/4

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

Instrument ID: CHHP6 Date Analyzed: 09/28/2015 12:18

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 180-155089/8	60928008.D	09/28/2015 14:21
HD-MW-129-0/1-0 DL	180-47935-1 DL	60928016.D	09/28/2015 17:35
HD-MW-131-0/1-0 DL	180-47935-2 DL	60928017.D	09/28/2015 18:00
HD-MW-132-0/1-0 DL	180-47935-3 DL	60928018.D	09/28/2015 18:24
HD-MW-134-0/1-0	180-47935-4	60928019.D	09/28/2015 18:49
HD-MW-114-0/1-0 DL	180-47935-5 DL	60928020.D	09/28/2015 19:13
HD-QC4-0/1-2	180-47935-7	60928024.D	09/28/2015 20:50
HD-MW-129-0/1-0	180-47935-1	60928025.D	09/28/2015 21:14
HD-MW-131-0/1-0	180-47935-2	60928026.D	09/28/2015 21:38
HD-MW-132-0/1-0	180-47935-3	60928027.D	09/28/2015 22:03

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab File ID: 60929005.D Lab Sample ID: MB 180-155230/5

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

Instrument ID: CHHP6 Date Analyzed: 09/29/2015 12:50

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 180-155230/8	60929008.D	09/29/2015 14:18
HD-MW-46-0/1-0	180-47935-6	60929012.D	09/29/2015 15:55
HD-MW-114-0/1-0	180-47935-5	60929028.D	09/29/2015 22:24

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

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.: 180-47935-1

SDG No.:

Lab File ID: 60928001.D BFB Injection Date: 09/28/2015

Instrument ID: CHHP6 BFB Injection Time: 10:22

Analysis Batch No.: 155089

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	25.0	
75	30.0 - 60.0 % of mass 95	58.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	72.0	
175	5.0 - 9.0 % of mass 174	6.5	(9.0) 1
176	95.0 - 101.0 % of mass 174	68.9	(95.7) 1
177	5.0 - 9.0 % of mass 176	4.5	(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 180-155089/2	60928002.D	09/28/2015	11:03
	MB 180-155089/4	60928004.D	09/28/2015	12:18
	LCS 180-155089/8	60928008.D	09/28/2015	14:21
HD-MW-129-0/1-0 DL	180-47935-1 DL	60928016.D	09/28/2015	17:35
HD-MW-131-0/1-0 DL	180-47935-2 DL	60928017.D	09/28/2015	18:00
HD-MW-132-0/1-0 DL	180-47935-3 DL	60928018.D	09/28/2015	18:24
HD-MW-134-0/1-0	180-47935-4	60928019.D	09/28/2015	18:49
HD-MW-114-0/1-0 DL	180-47935-5 DL	60928020.D	09/28/2015	19:13
HD-QC4-0/1-2	180-47935-7	60928024.D	09/28/2015	20:50
HD-MW-129-0/1-0	180-47935-1	60928025.D	09/28/2015	21:14
HD-MW-131-0/1-0	180-47935-2	60928026.D	09/28/2015	21:38
HD-MW-132-0/1-0	180-47935-3	60928027.D	09/28/2015	22:03

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab File ID: 60929004.D BFB Injection Date: 09/29/2015

Instrument ID: CHHP6 BFB Injection Time: 10:59

Analysis Batch No.: 155230

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	24.2	
75	30.0 - 60.0 % of mass 95	57.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	75.9	
175	5.0 - 9.0 % of mass 174	6.8	(9.0) 1
176	95.0 - 101.0 % of mass 174	74.2	(97.8) 1
177	5.0 - 9.0 % of mass 176	5.5	(7.4) 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 180-155230/2	60929002.D	09/29/2015	11:39
	MB 180-155230/5	60929005.D	09/29/2015	12:50
	LCS 180-155230/8	60929008.D	09/29/2015	14:18
HD-MW-46-0/1-0	180-47935-6	60929012.D	09/29/2015	15:55
HD-MW-114-0/1-0	180-47935-5	60929028.D	09/29/2015	22:24

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Sample No.: CCVIS 180-155089/2 Date Analyzed: 09/28/2015 11:03

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

Lab File ID (Standard): 60928002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		194313	4.24	501521	7.28	120842	10.40
UPPER LIMIT		388626	4.74	1003042	7.78	241684	10.90
LOWER LIMIT		97157	3.74	250761	6.78	60421	9.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155089/4		203220	4.23	570858	7.29	127707	10.40
LCS 180-155089/8		218073	4.24	503917	7.28	118468	10.40
180-47935-1 DL	HD-MW-129-0/1-0 DL	191822	4.23	535401	7.29	111873	10.40
180-47935-2 DL	HD-MW-131-0/1-0 DL	186526	4.24	536571	7.29	121218	10.40
180-47935-3 DL	HD-MW-132-0/1-0 DL	194018	4.24	538875	7.29	115718	10.40
180-47935-4	HD-MW-134-0/1-0	168097	4.25	537894	7.29	122320	10.40
180-47935-5 DL	HD-MW-114-0/1-0 DL	195200	4.23	529423	7.29	114584	10.39
180-47935-7	HD-QC4-0/1-2	177703	4.24	511350	7.29	116209	10.40
180-47935-1	HD-MW-129-0/1-0	168361	4.24	501551	7.29	111375	10.40
180-47935-2	HD-MW-131-0/1-0	147871	4.24	507640	7.29	112760	10.40
180-47935-3	HD-MW-132-0/1-0	158556	4.24	522511	7.28	114223	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.: 180-47935-1

SDG No.:

Sample No.: CCVIS 180-155089/2 Date Analyzed: 09/28/2015 11:03

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

Lab File ID (Standard): 60928002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		193962	12.75				
UPPER LIMIT		387924	13.25				
LOWER LIMIT		96981	12.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155089/4		213043	12.75				
LCS 180-155089/8		190158	12.75				
180-47935-1 DL	HD-MW-129-0/1-0 DL	190880	12.75				
180-47935-2 DL	HD-MW-131-0/1-0 DL	194879	12.75				
180-47935-3 DL	HD-MW-132-0/1-0 DL	204104	12.75				
180-47935-4	HD-MW-134-0/1-0	197954	12.75				
180-47935-5 DL	HD-MW-114-0/1-0 DL	196318	12.75				
180-47935-7	HD-QC4-0/1-2	191151	12.75				
180-47935-1	HD-MW-129-0/1-0	187841	12.75				
180-47935-2	HD-MW-131-0/1-0	190101	12.75				
180-47935-3	HD-MW-132-0/1-0	195302	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.: 180-47935-1

SDG No.:

Sample No.: CCVIS 180-155230/2 Date Analyzed: 09/29/2015 11:39

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

Lab File ID (Standard): 60929002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		151334	4.24	479327	7.28	109995	10.40
UPPER LIMIT		302668	4.74	958654	7.78	219990	10.90
LOWER LIMIT		75667	3.74	239664	6.78	54998	9.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155230/5		179982	4.23	517037	7.29	115558	10.40
LCS 180-155230/8		186647	4.26	465928	7.29	102227	10.39
180-47935-6	HD-MW-46-0/1-0	186181	4.25	522559	7.29	118912	10.40
180-47935-5	HD-MW-114-0/1-0	159602	4.24	476507	7.29	110639	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.: 180-47935-1

SDG No.:

Sample No.: CCVIS 180-155230/2 Date Analyzed: 09/29/2015 11:39

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

Lab File ID (Standard): 60929002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		188289	12.75				
UPPER LIMIT		376578	13.25				
LOWER LIMIT		94145	12.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155230/5		190638	12.75				
LCS 180-155230/8		183792	12.75				
180-47935-6	HD-MW-46-0/1-0	187145	12.75				
180-47935-5	HD-MW-114-0/1-0	166999	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.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-129-0/1-0 | Lab Sample ID: 180-47935-1

Matrix: Water | Lab File ID: 60928025.D

Analysis Method: 8260C | Date Collected: 09/18/2015 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 21:14

Soil Aliquot Vol: | Dilution Factor: 20

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	20	U	20	5.7
75-01-4	Vinyl chloride	20	U	20	4.5
74-83-9	Bromomethane	20	U	20	6.3
75-00-3	Chloroethane	20	U	20	4.3
75-35-4	1,1-Dichloroethene	20	U	20	5.9
67-64-1	Acetone	100	U	100	50
75-15-0	Carbon disulfide	20	U	20	4.2
75-09-2	Methylene Chloride	20	U	20	2.5
156-60-5	trans-1,2-Dichloroethene	20	U	20	3.4
1634-04-4	Methyl tert-butyl ether	20	U	20	3.7
75-34-3	1,1-Dichloroethane	20	U	20	2.3
156-59-2	cis-1,2-Dichloroethene	150		20	4.7
74-97-5	Bromochloromethane	20	U	20	3.6
78-93-3	2-Butanone (MEK)	100	U	100	11
67-66-3	Chloroform	20	U	20	3.4
71-55-6	1,1,1-Trichloroethane	20	U	20	5.7
56-23-5	Carbon tetrachloride	20	U	20	2.7
71-43-2	Benzene	20	U	20	2.1
107-06-2	1,2-Dichloroethane	20	U	20	4.2
79-01-6	*Trichloroethene*	*2900*	*E*	*20*	*2.9*
78-87-5	1,2-Dichloropropane	20	U	20	1.9
75-27-4	Bromodichloromethane	20	U	20	2.6
10061-01-5	cis-1,3-Dichloropropene	20	U	20	3.7
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	11
108-88-3	Toluene	20	U	20	3.0
10061-02-6	trans-1,3-Dichloropropene	20	U	20	3.0
79-00-5	1,1,2-Trichloroethane	20	U	20	4.0
127-18-4	Tetrachloroethene	340		20	3.0
591-78-6	2-Hexanone	100	U ^c	100	3.2
124-48-1	Dibromochloromethane	20	U	20	2.7
106-93-4	1,2-Dibromoethane (EDB)	20	U	20	3.6
108-90-7	Chlorobenzene	20	U	20	2.7
630-20-6	1,1,1,2-Tetrachloroethane	20	U	20	5.5
100-41-4	Ethylbenzene	20	U	20	4.5
1330-20-7	Xylenes, Total	60	U	60	9.8
100-42-5	Styrene	20	U	20	1.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-129-0/1-0 | Lab Sample ID: 180-47935-1

Matrix: Water | Lab File ID: 60928025.D

Analysis Method: 8260C | Date Collected: 09/18/2015 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 21:14

Soil Aliquot Vol: | Dilution Factor: 20

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	20	U	20	3.8
79-34-5	1,1,2,2-Tetrachloroethane	20	U	20	4.0
107-13-1	Acrylonitrile	400	U	400	11
123-91-1	1,4-Dioxane	4000	U	4000	690

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		64-135
2037-26-5	Toluene-d8 (Surr)	108		71-118
460-00-4	4-Bromofluorobenzene (Surr)	98		70-118
1868-53-7	Dibromofluoromethane (Surr)	101		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928025.D
Lims ID: 180-47935-D-1 Lab Sample ID: 180-47935-1
Client ID: HD-MW-129-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2015 21:14:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 180-47935-D-1, 20x
Misc. Info.: 180-0008724-025
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 08:39:39 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 08:39:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.242	4.241	0.001	88	168361	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.283	0.007	97	501551	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	111375	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	98	187841	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.560	6.547	0.013	92	116963	50.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.930	0.001	71	194049	52.1	
$ 7 Toluene-d8 (Surr)	98	8.944	8.938	0.006	95	475655	54.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	84	190730	48.9	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.240				ND	
16 Chloroethane	64		2.380				ND	
22 1,1-Dichloroethene	96	3.354	3.341	0.013	1	650	0.2575	M
24 Acetone	43		3.426				ND	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.126				ND	
33 Acrylonitrile	53		4.503				ND	
34 trans-1,2-Dichloroethene	96	4.564	4.558	0.006	44	1934	0.6638	
35 Methyl tert-butyl ether	73		4.564				ND	
37 1,1-Dichloroethane	63		5.190				ND	
43 cis-1,2-Dichloroethene	96	5.945	5.933	0.012	84	115513	36.5	
44 2-Butanone (MEK)	43		5.951				ND	
48 Chlorobromomethane	128		6.225				ND	
50 Chloroform	83	6.377	6.371	0.006	1	1405	0.2714	
51 1,1,1-Trichloroethane	97		6.535				ND	
53 Carbon tetrachloride	117		6.717				ND	
56 Benzene	78		6.942				ND	
57 1,2-Dichloroethane	62		7.015				ND	
61 Trichloroethene	130	7.679	7.679	0.000	93	1774480	727.9	E
64 1,2-Dichloropropane	63		7.952				ND	
65 1,4-Dioxane	88		8.038				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.232				ND	
71 cis-1,3-Dichloropropene	75		8.676				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
73 Toluene	91		9.011				ND	
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97		9.449				ND	
77 Tetrachloroethene	164	9.528	9.528	0.000	93	165189	84.3	
79 2-Hexanone	43		9.656				ND	
81 Chlorodibromomethane	129		9.820				ND	
82 Ethylene Dibromide	107		9.936				ND	
84 Chlorobenzene	112		10.428				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.659				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

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

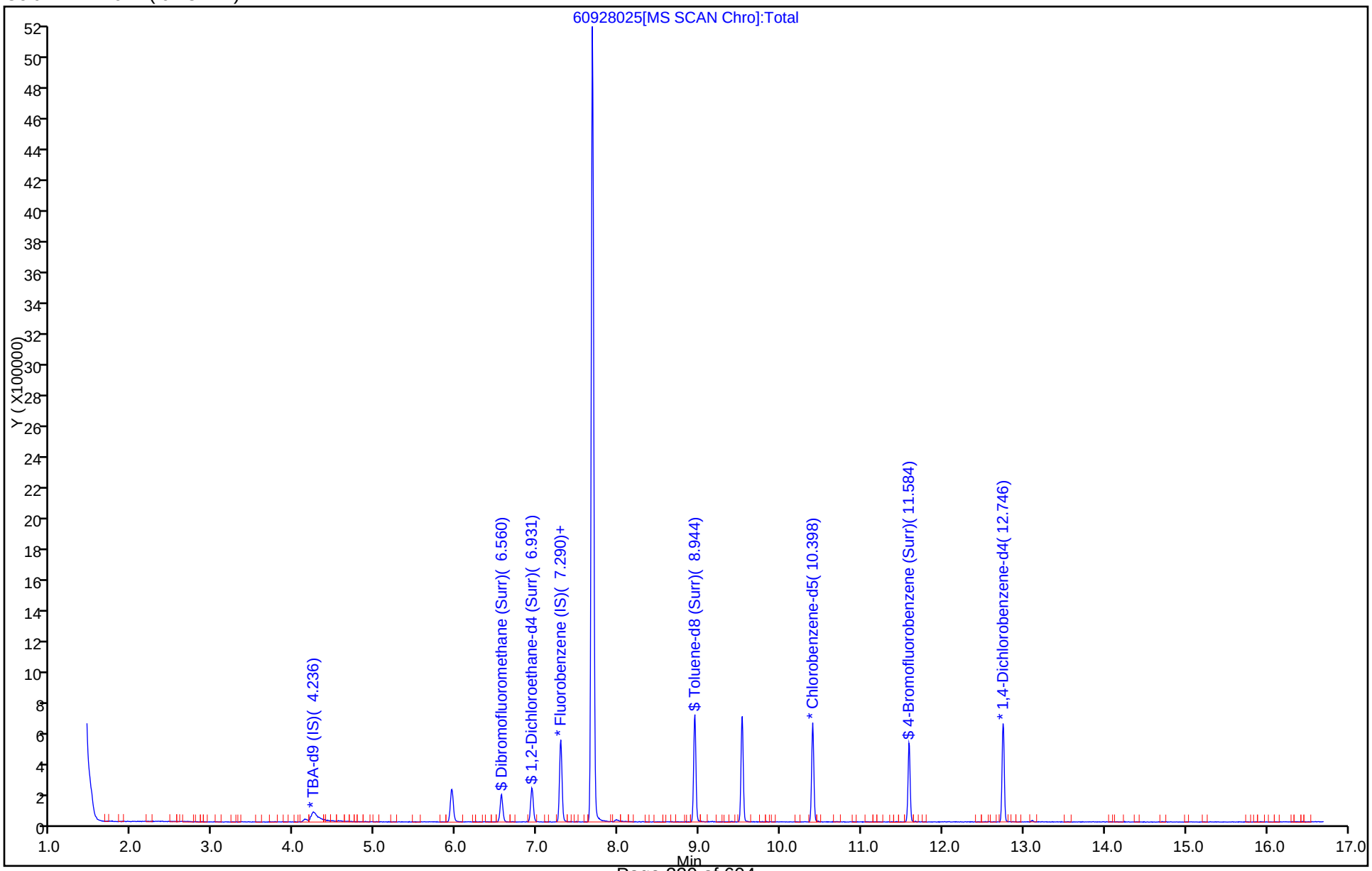
Report Date: 29-Sep-2015 08:39:40 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928025.D

Injection Date:	28-Sep-2015 21:14:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-D-1	Lab Sample ID:	180-47935-1	Worklist Smp#:	25
Client ID:	HD-MW-129-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	25
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



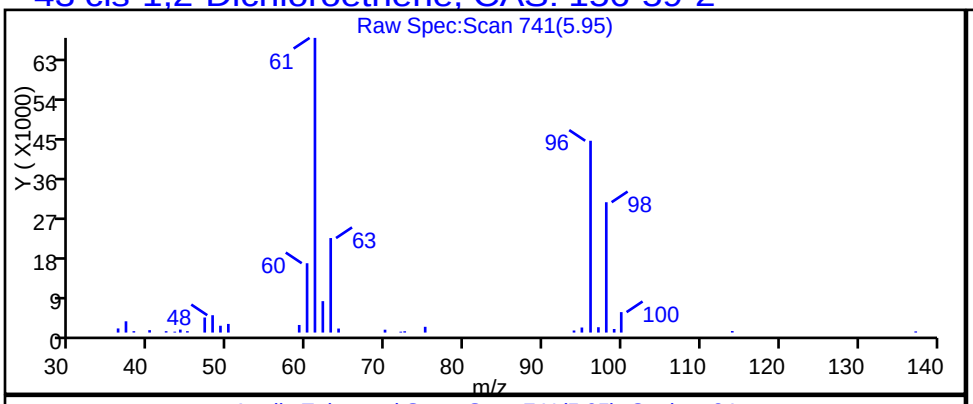
Report Date: 29-Sep-2015 08:39:40 Chrom Revision: 2.2 08-Sep-2015 13:41:46

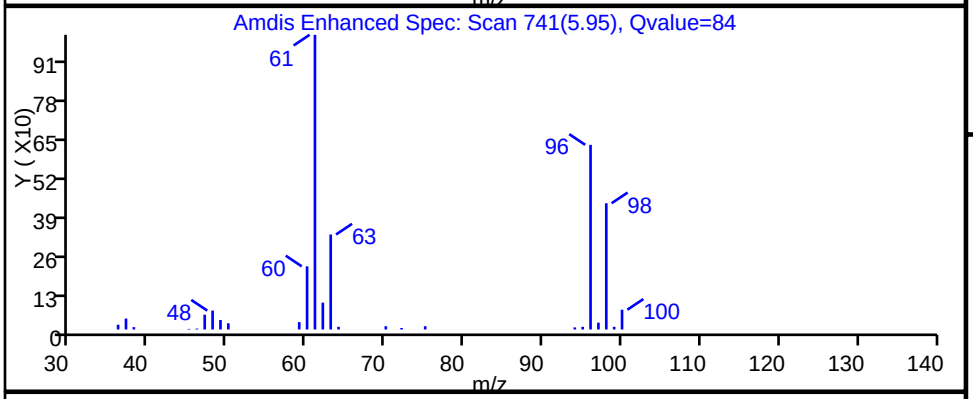
TestAmerica Pittsburgh

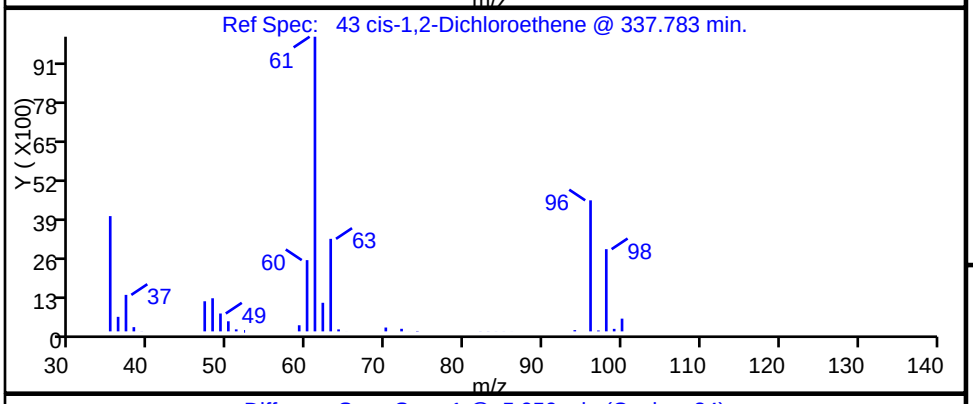
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928025.D

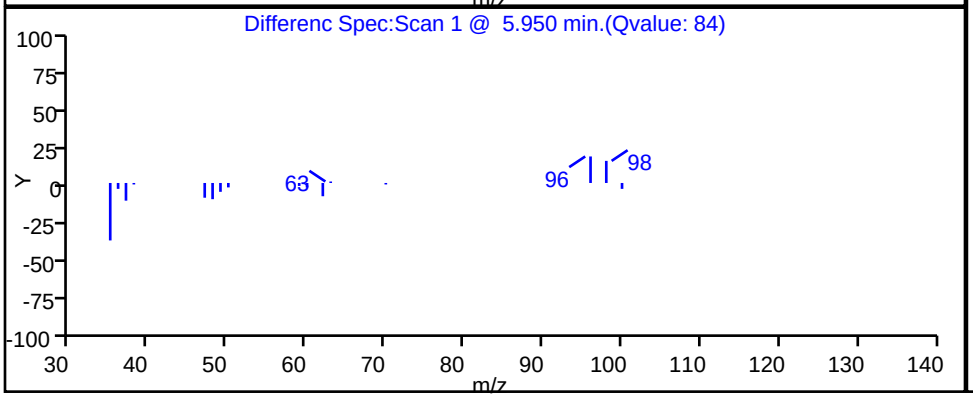
Injection Date:	28-Sep-2015 21:14:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-1	Lab Sample ID:	180-47935-1		
Client ID:	HD-MW-129-0/1-0				
Operator ID:	001562	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

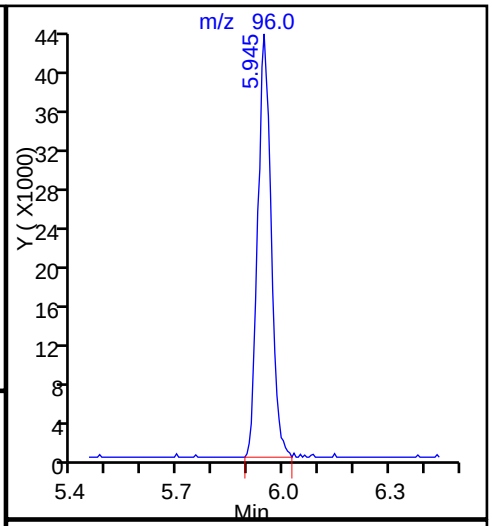
43 cis-1,2-Dichloroethene, CAS: 156-59-2

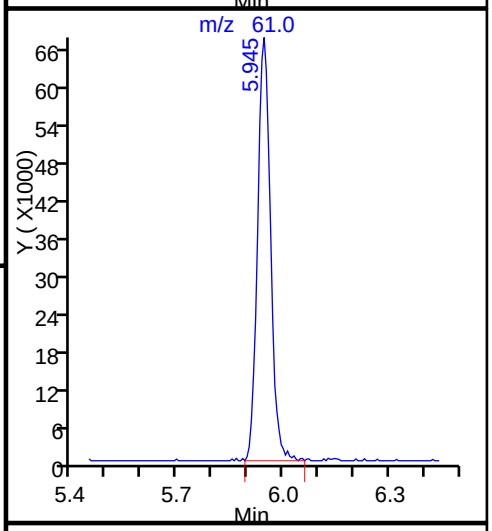


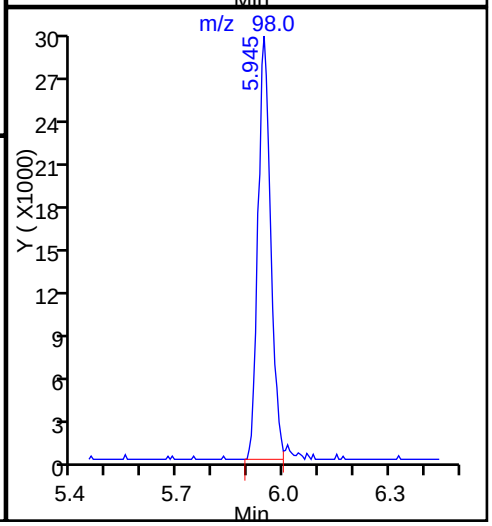










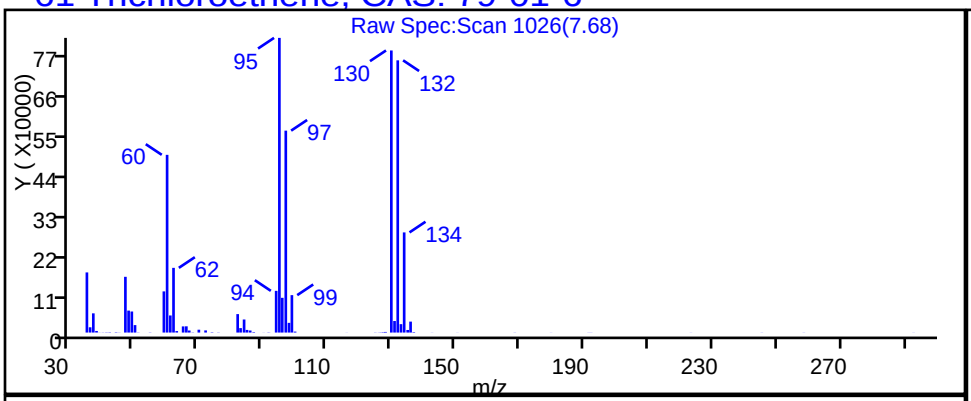


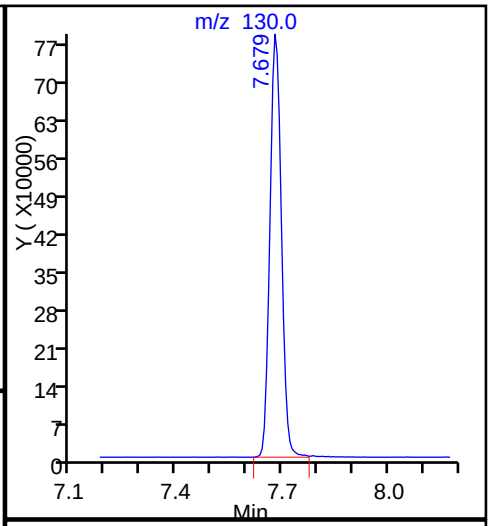
Report Date: 29-Sep-2015 08:39:40 Chrom Revision: 2.2 08-Sep-2015 13:41:46

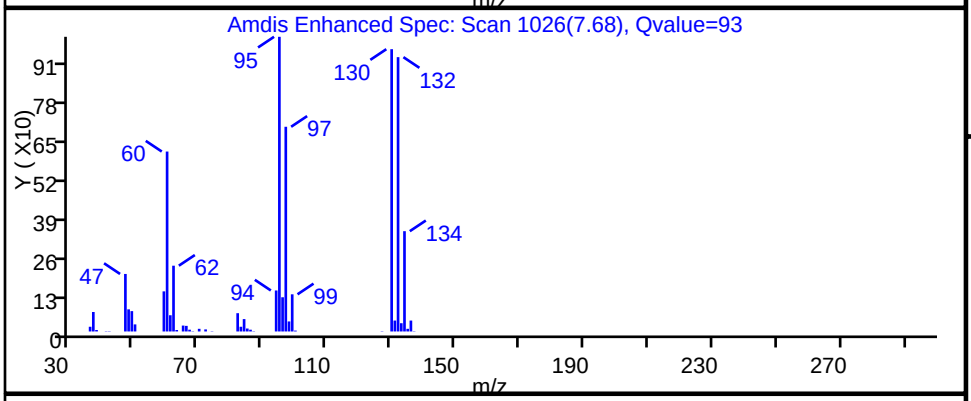
TestAmerica Pittsburgh

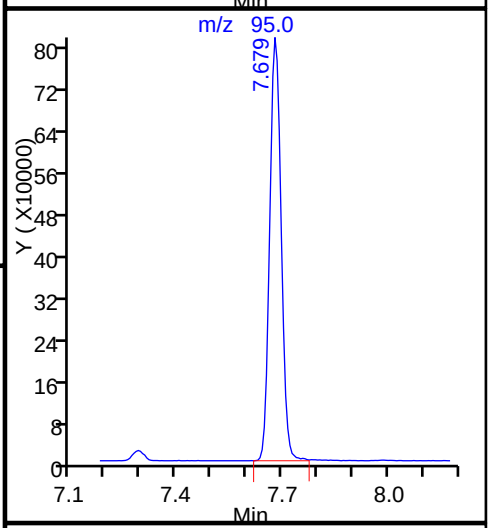
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928025.D		
Injection Date:	28-Sep-2015 21:14:30	Instrument ID:	CHHP6
Lims ID:	180-47935-D-1	Lab Sample ID:	180-47935-1
Client ID:	HD-MW-129-0/1-0		
Operator ID:	001562	ALS Bottle#:	25 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	20.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

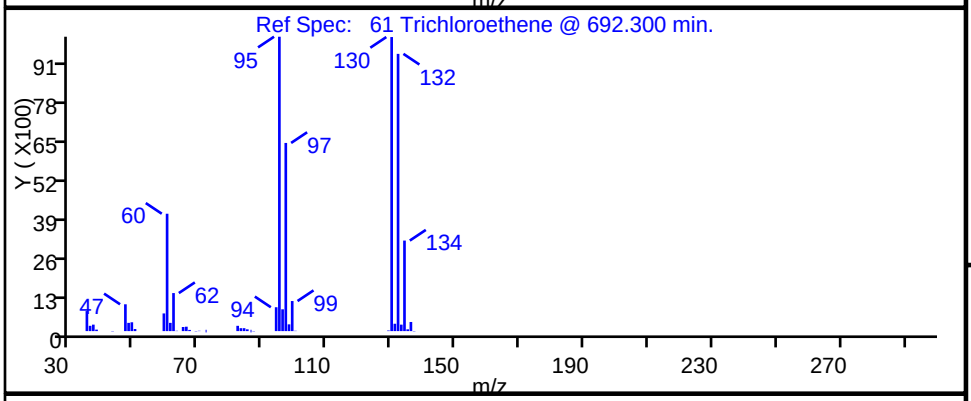
61 Trichloroethene, CAS: 79-01-6

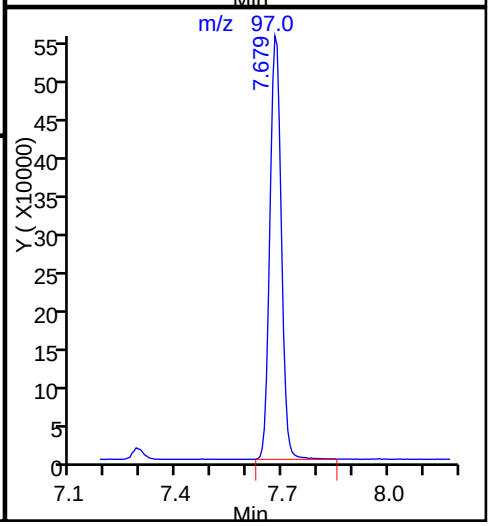


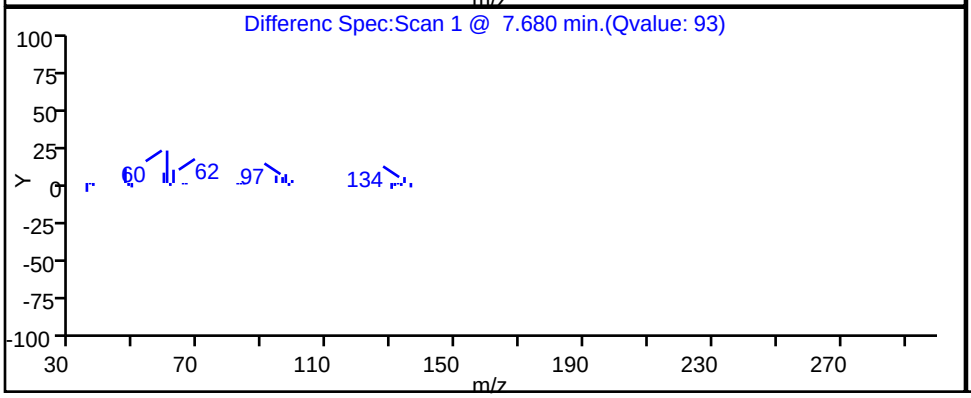










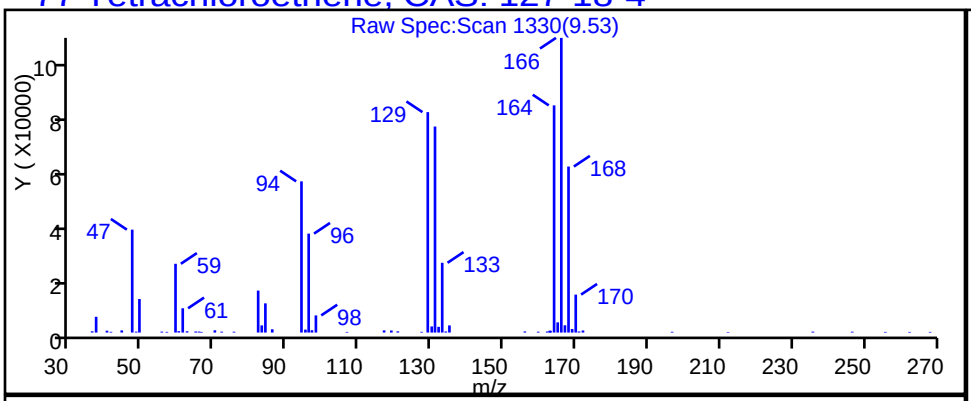


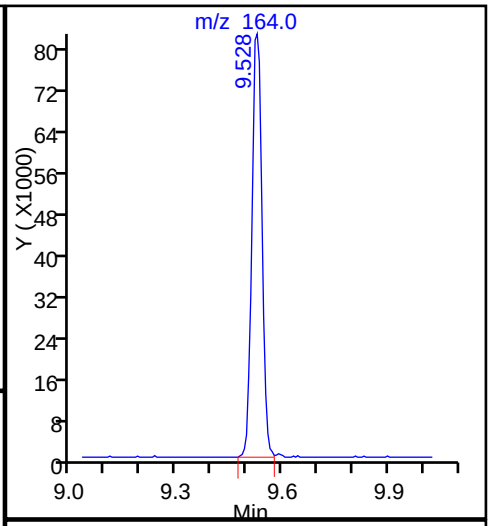
Report Date: 29-Sep-2015 08:39:40 Chrom Revision: 2.2 08-Sep-2015 13:41:46

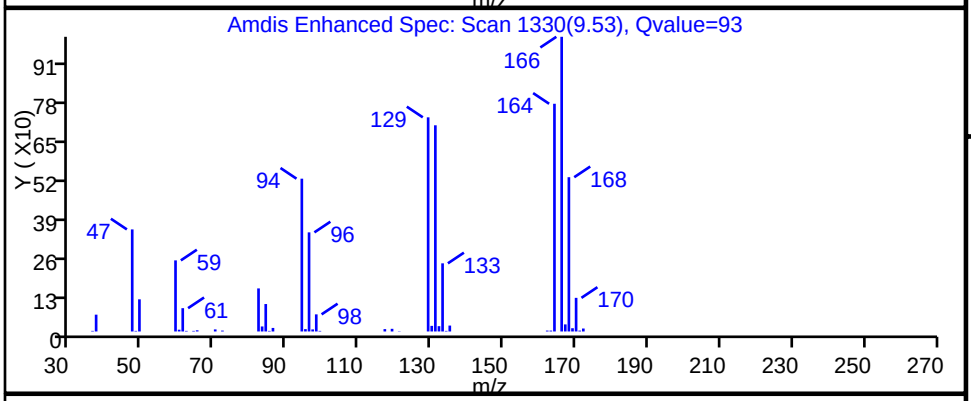
TestAmerica Pittsburgh

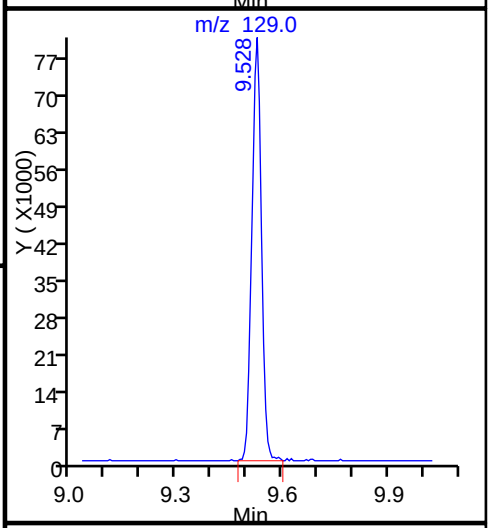
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928025.D		
Injection Date:	28-Sep-2015 21:14:30	Instrument ID:	CHHP6
Lims ID:	180-47935-D-1	Lab Sample ID:	180-47935-1
Client ID:	HD-MW-129-0/1-0		
Operator ID:	001562	ALS Bottle#:	25 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	20.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

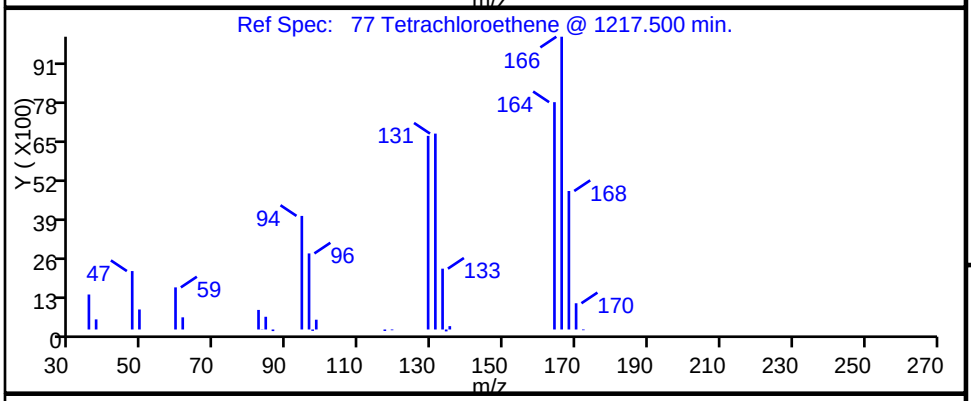
77 Tetrachloroethene, CAS: 127-18-4

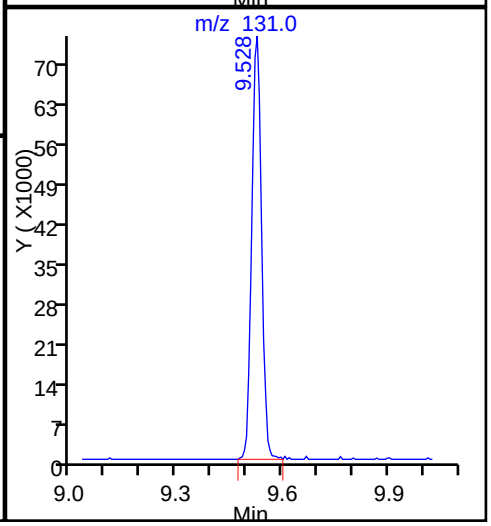


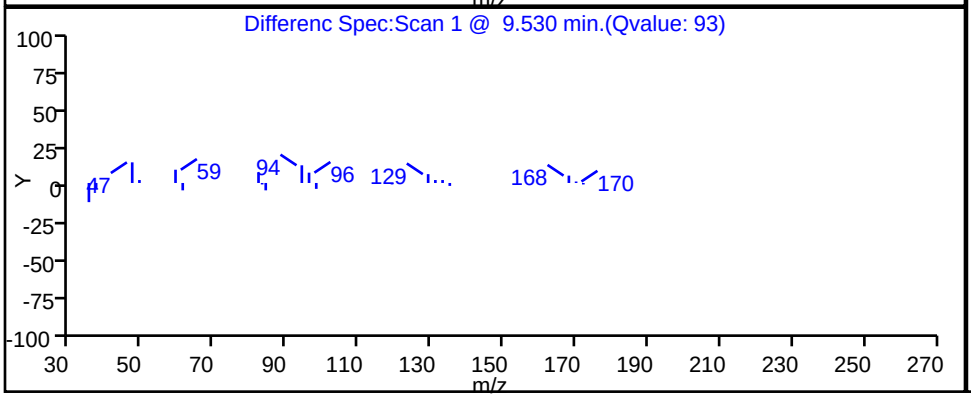












Manual Integration/User Assign Peak Report

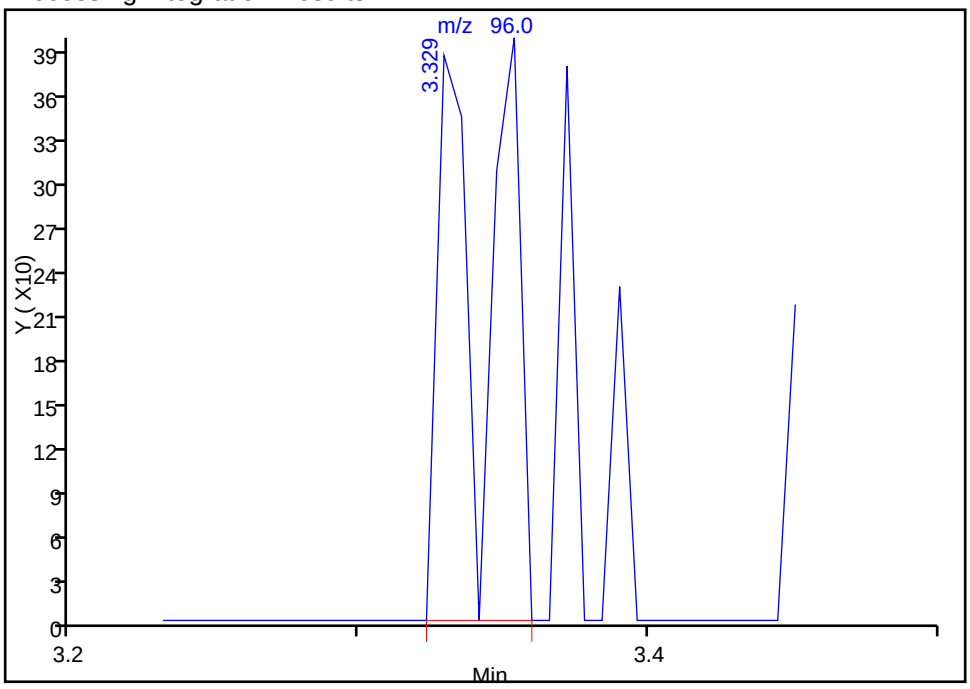
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928025.D				
Injection Date:	28-Sep-2015 21:14:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-1	Lab Sample ID:	180-47935-1		
Client ID:	HD-MW-129-0/1-0				
Operator ID:	001562	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
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

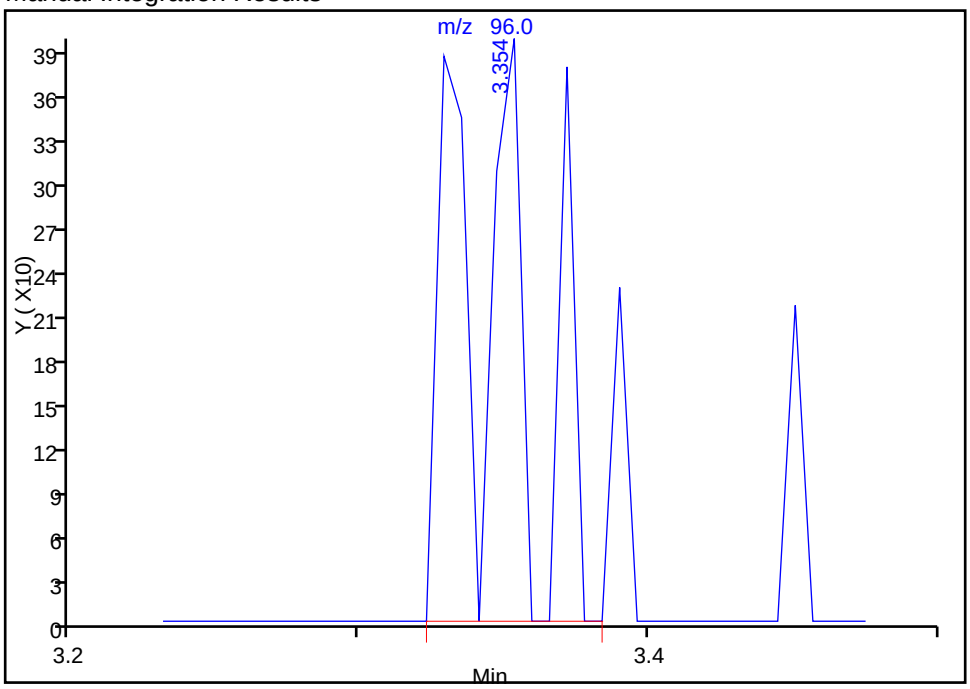
Processing Integration Results

RT: 3.33
Area: 515
Amount: 0.203989
Amount Units: ng



Manual Integration Results

RT: 3.35
Area: 650
Amount: 0.257462
Amount Units: ng



Reviewer: fergusond, 29-Sep-2015 08:39:39
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-129-0/1-0 DL | Lab Sample ID: 180-47935-1 DL

Matrix: Water | Lab File ID: 60928016.D

Analysis Method: 8260C | Date Collected: 09/18/2015 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 17:35

Soil Aliquot Vol: | Dilution Factor: 200

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	200	U	200	57
75-01-4	Vinyl chloride	200	U	200	45
74-83-9	Bromomethane	200	U	200	63
75-00-3	Chloroethane	200	U	200	43
75-35-4	1,1-Dichloroethene	200	U	200	59
67-64-1	Acetone	1000	U	1000	500
75-15-0	Carbon disulfide	200	U	200	42
75-09-2	Methylene Chloride	200	U	200	25
156-60-5	trans-1,2-Dichloroethene	200	U	200	34
1634-04-4	Methyl tert-butyl ether	200	U	200	37
75-34-3	1,1-Dichloroethane	200	U	200	23
156-59-2	cis-1,2-Dichloroethene	130	J	200	47
74-97-5	Bromochloromethane	200	U	200	36
78-93-3	2-Butanone (MEK)	1000	U	1000	110
67-66-3	Chloroform	200	U	200	34
71-55-6	1,1,1-Trichloroethane	200	U	200	57
56-23-5	Carbon tetrachloride	200	U	200	27
71-43-2	Benzene	200	U	200	21
107-06-2	1,2-Dichloroethane	200	U	200	42
79-01-6	Trichloroethene	3500		200	29
78-87-5	1,2-Dichloropropane	200	U	200	19
75-27-4	Bromodichloromethane	200	U	200	26
10061-01-5	cis-1,3-Dichloropropene	200	U	200	37
108-10-1	4-Methyl-2-pentanone (MIBK)	1000	U	1000	110
108-88-3	Toluene	200	U	200	30
10061-02-6	trans-1,3-Dichloropropene	200	U	200	30
79-00-5	1,1,2-Trichloroethane	200	U	200	40
127-18-4	Tetrachloroethene	370		200	30
591-78-6	2-Hexanone	1000	U ^c	1000	32
124-48-1	Dibromochloromethane	200	U	200	27
106-93-4	1,2-Dibromoethane (EDB)	200	U	200	36
108-90-7	Chlorobenzene	200	U	200	27
630-20-6	1,1,1,2-Tetrachloroethane	200	U	200	55
100-41-4	Ethylbenzene	200	U	200	45
1330-20-7	Xylenes, Total	600	U	600	98
100-42-5	Styrene	200	U	200	19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-129-0/1-0 DL | Lab Sample ID: 180-47935-1 DL

Matrix: Water | Lab File ID: 60928016.D

Analysis Method: 8260C | Date Collected: 09/18/2015 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 17:35

Soil Aliquot Vol: | Dilution Factor: 200

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	*Bromoform*	*200*	*U*	*200*	*38*
79-34-5	*1,1,2,2-Tetrachloroethane*	*200*	*U*	*200*	*40*
107-13-1	*Acrylonitrile*	*4000*	*U*	*4000*	*110*
123-91-1	*1,4-Dioxane*	*40000*	*U*	*40000*	*6900*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-135
2037-26-5	Toluene-d8 (Surr)	113		71-118
460-00-4	4-Bromofluorobenzene (Surr)	99		70-118
1868-53-7	Dibromofluoromethane (Surr)	96		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928016.D
Lims ID: 180-47935-E-1 Lab Sample ID: 180-47935-1
Client ID: HD-MW-129-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2015 17:35:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 180-47935-E-1, 200x
Misc. Info.: 180-0008724-016
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 08:27:06 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 08:27:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.226	4.241	-0.015	90	191822	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.283	0.009	97	535401	50.0	
* 3 Chlorobenzene-d5	119	10.395	10.398	-0.003	92	111873	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.746	0.003	97	190880	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.547	0.009	93	118904	48.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.930	0.003	70	204933	51.5	
$ 7 Toluene-d8 (Surr)	98	8.941	8.938	0.003	95	497189	56.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.584	0.003	85	194450	49.6	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.240				ND	
16 Chloroethane	64		2.380				ND	
22 1,1-Dichloroethene	96		3.341				ND	
24 Acetone	43		3.426				ND	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.126				ND	
33 Acrylonitrile	53		4.503				ND	
34 trans-1,2-Dichloroethene	96		4.558				ND	
35 Methyl tert-butyl ether	73		4.564				ND	
37 1,1-Dichloroethane	63		5.190				ND	
43 cis-1,2-Dichloroethene	96	5.948	5.933	0.015	80	11231	3.32	
44 2-Butanone (MEK)	43		5.951				ND	
48 Chlorobromomethane	128		6.225				ND	
50 Chloroform	83		6.371				ND	
51 1,1,1-Trichloroethane	97		6.535				ND	
53 Carbon tetrachloride	117		6.717				ND	
56 Benzene	78		6.942				ND	
57 1,2-Dichloroethane	62		7.015				ND	
61 Trichloroethene	130	7.682	7.679	0.003	95	229430	88.2	
64 1,2-Dichloropropane	63		7.952				ND	
65 1,4-Dioxane	88		8.038				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.232				ND	
71 cis-1,3-Dichloropropene	75		8.676				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
73 Toluene	91		9.011				ND	
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97		9.449				ND	
77 Tetrachloroethene	164	9.531	9.528	0.003	93	18369	9.33	
79 2-Hexanone	43		9.656				ND	
81 Chlorodibromomethane	129		9.820				ND	
82 Ethylene Dibromide	107		9.936				ND	
84 Chlorobenzene	112		10.428				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.659				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				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

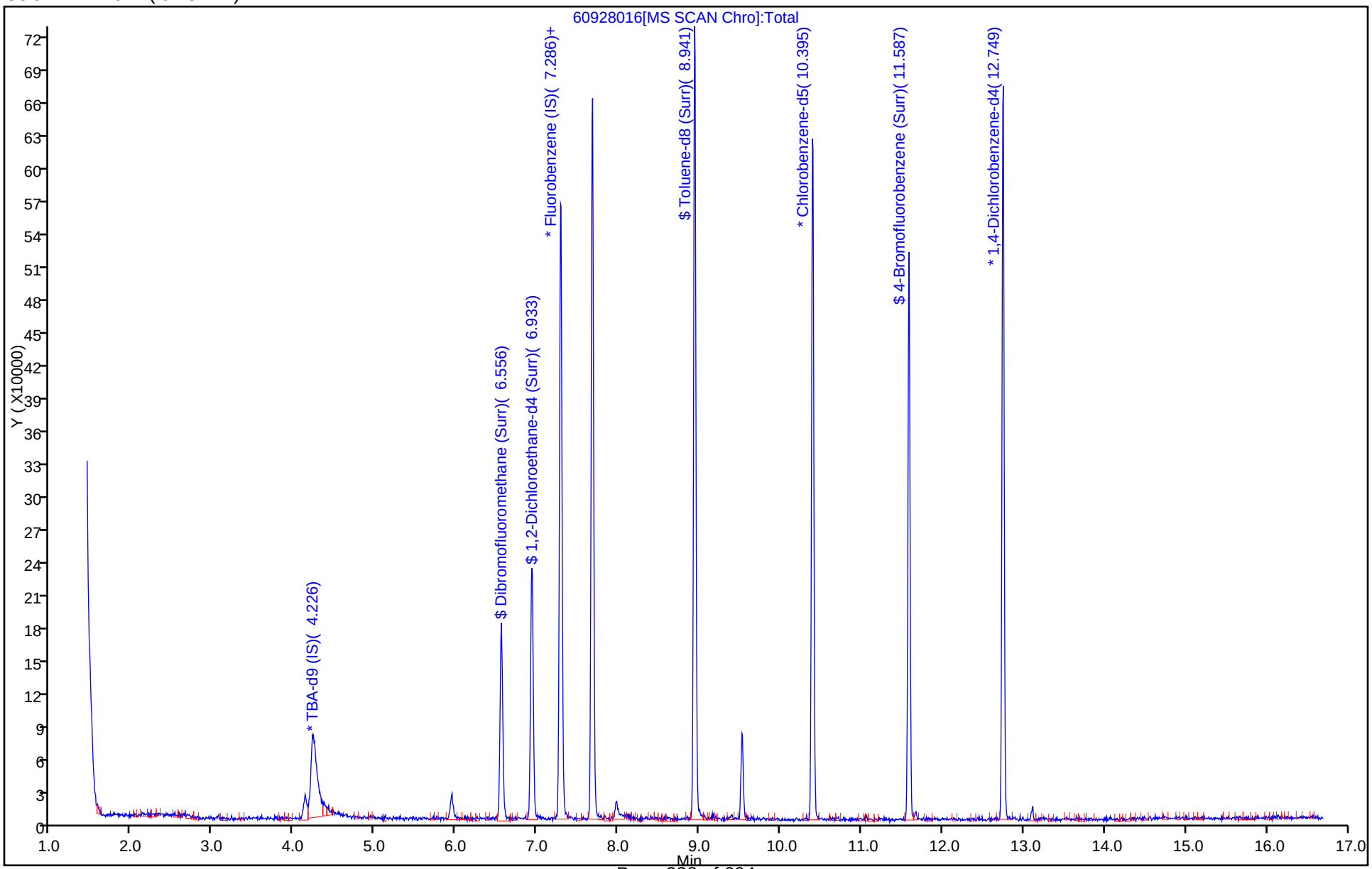
Report Date: 29-Sep-2015 08:27:07 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928016.D

Injection Date:	28-Sep-2015 17:35:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-E-1	Lab Sample ID:	180-47935-1	Worklist Smp#:	16
Client ID:	HD-MW-129-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	200.0000	ALS Bottle#:	16
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)

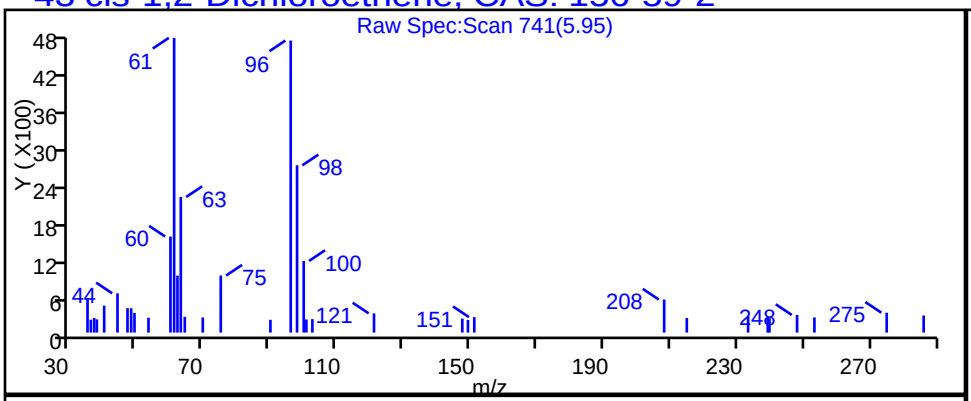


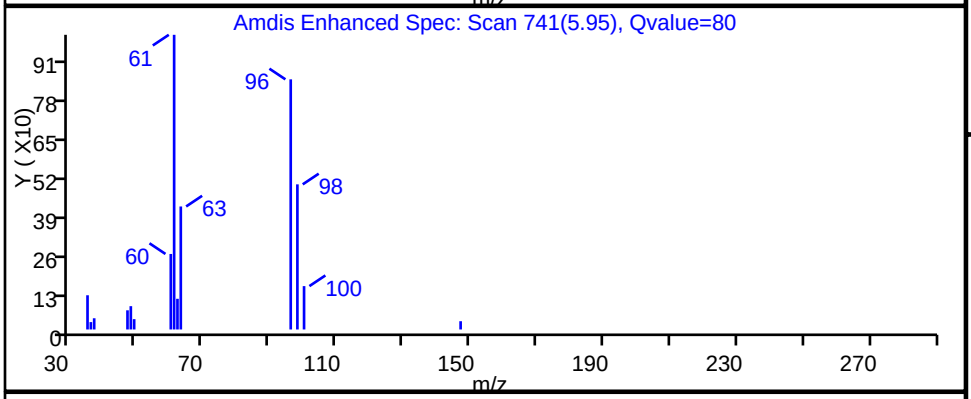
Report Date: 29-Sep-2015 08:27:07 Chrom Revision: 2.2 08-Sep-2015 13:41:46

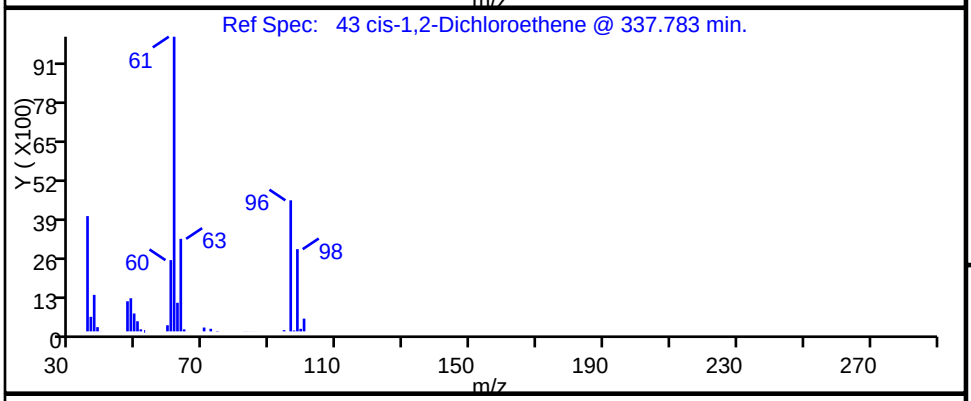
TestAmerica Pittsburgh

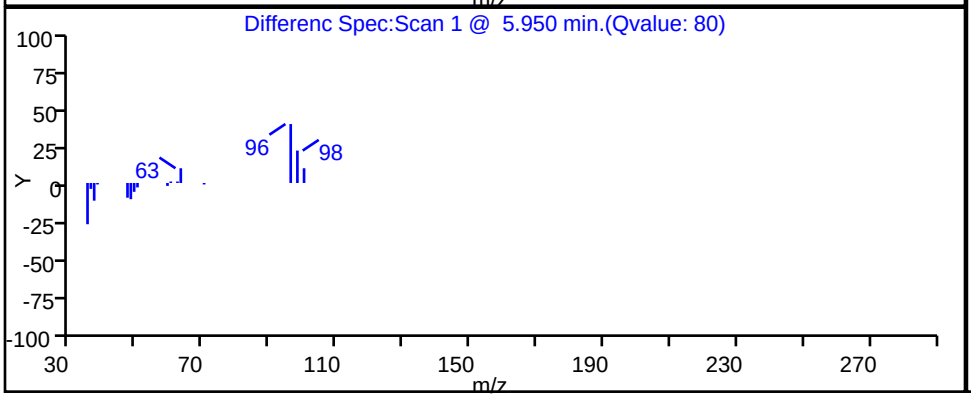
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928016.D				
Injection Date:	28-Sep-2015 17:35:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-E-1	Lab Sample ID:	180-47935-1		
Client ID:	HD-MW-129-0/1-0				
Operator ID:	001562	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

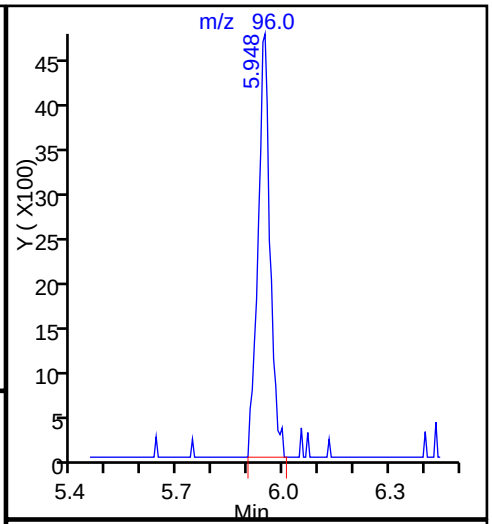
43 cis-1,2-Dichloroethene, CAS: 156-59-2

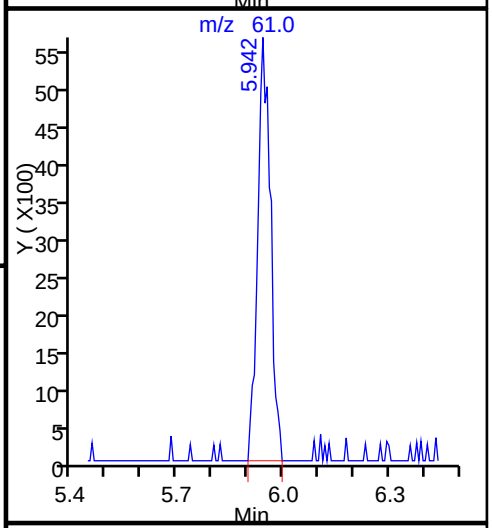


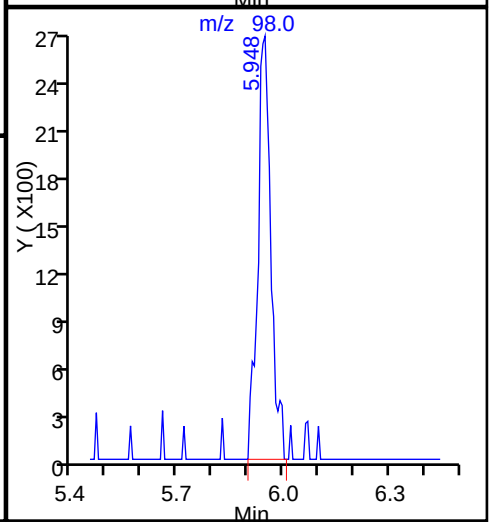










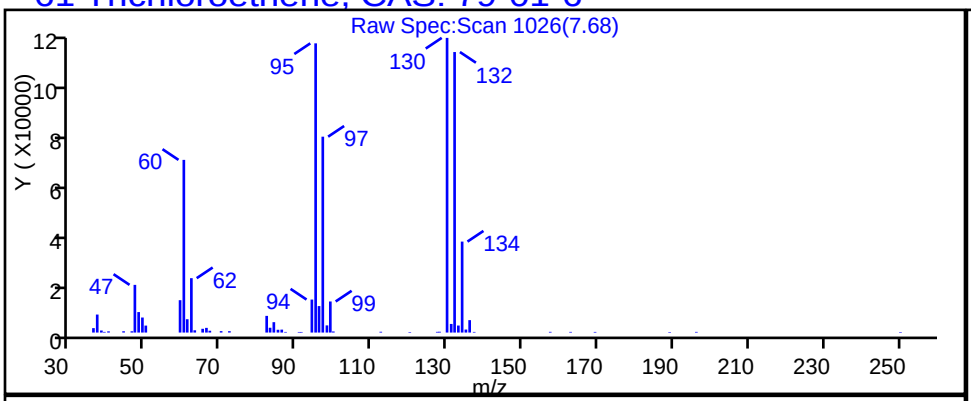


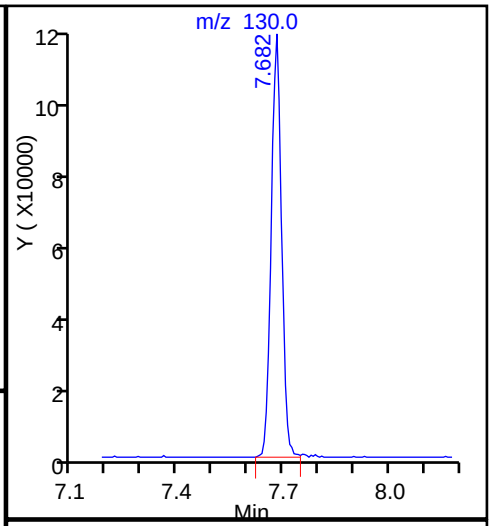
Report Date: 29-Sep-2015 08:27:07 Chrom Revision: 2.2 08-Sep-2015 13:41:46

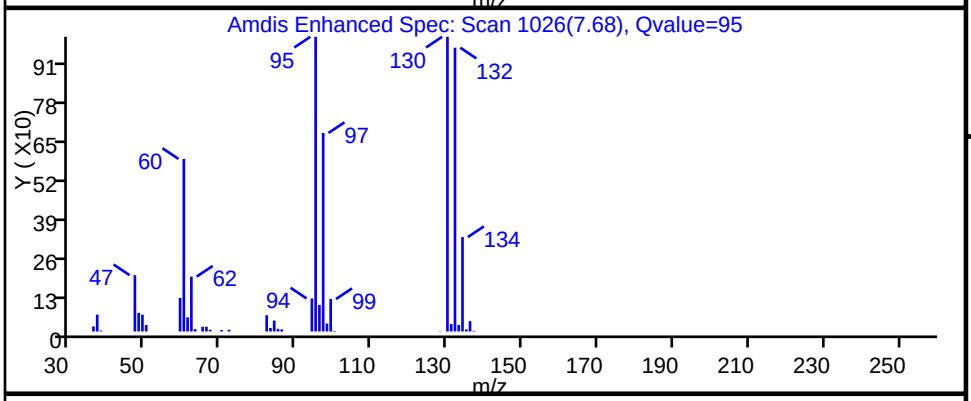
TestAmerica Pittsburgh

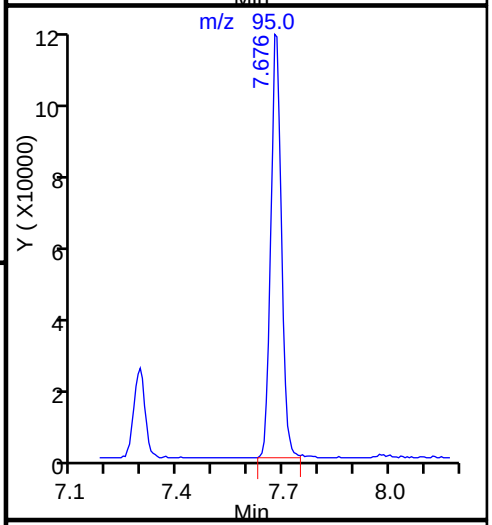
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928016.D		
Injection Date:	28-Sep-2015 17:35:30	Instrument ID:	CHHP6
Lims ID:	180-47935-E-1	Lab Sample ID:	180-47935-1
Client ID:	HD-MW-129-0/1-0		
Operator ID:	001562	ALS Bottle#:	16 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	200.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

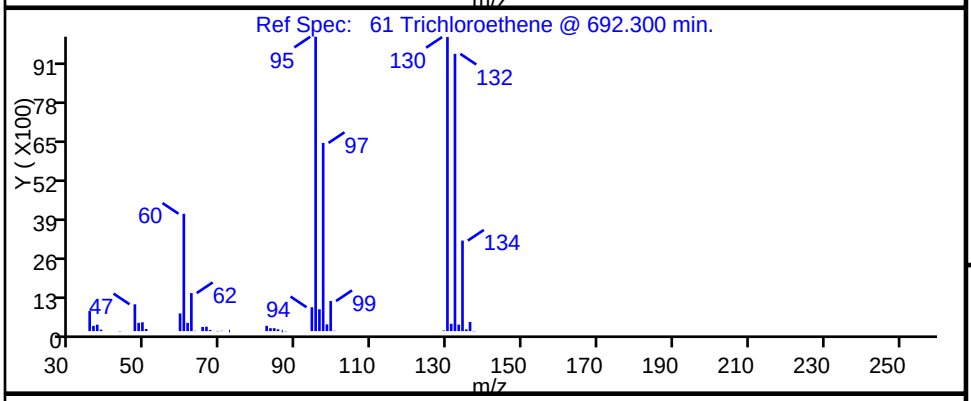
61 Trichloroethene, CAS: 79-01-6

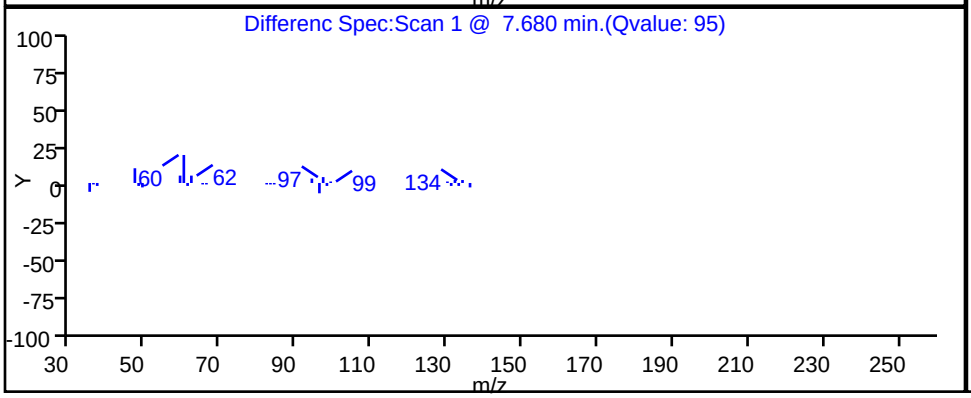


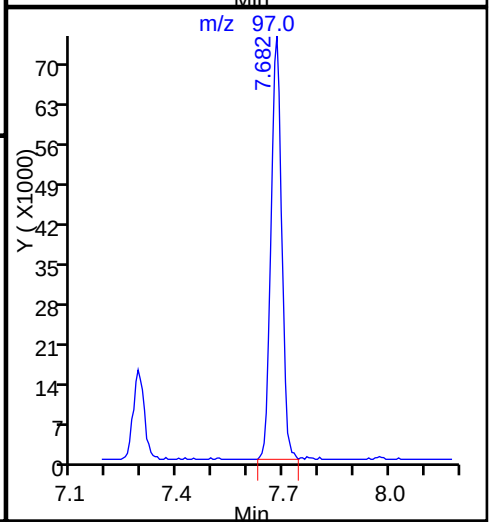












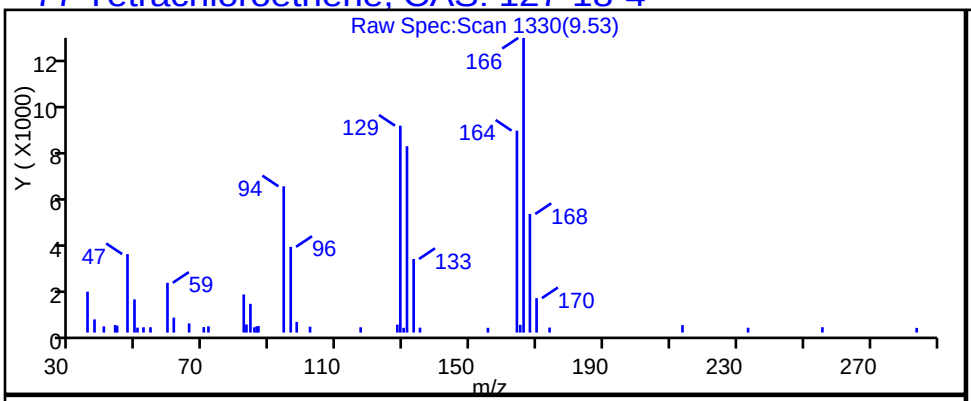
Report Date: 29-Sep-2015 08:27:07 Chrom Revision: 2.2 08-Sep-2015 13:41:46

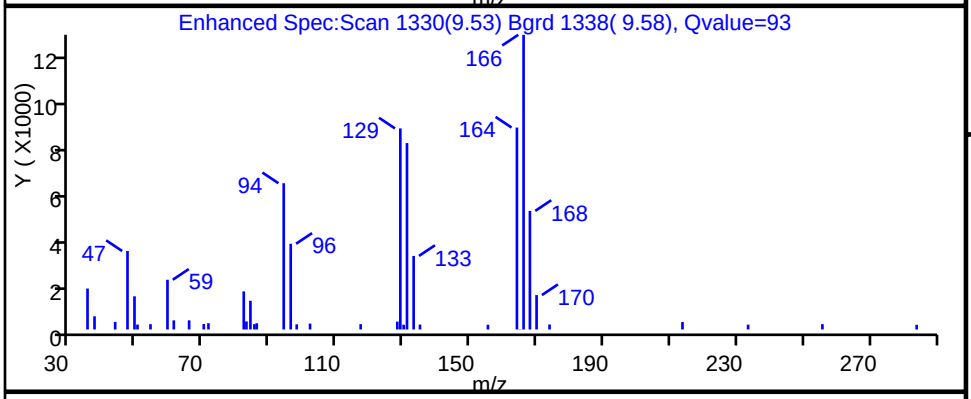
TestAmerica Pittsburgh

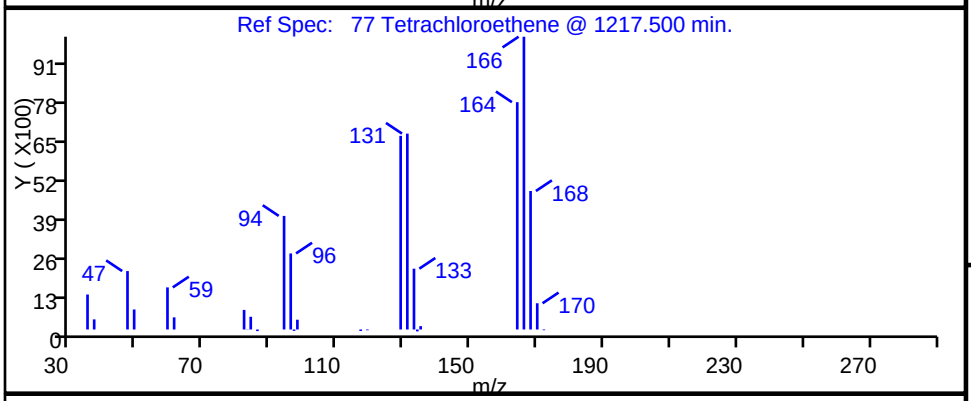
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928016.D

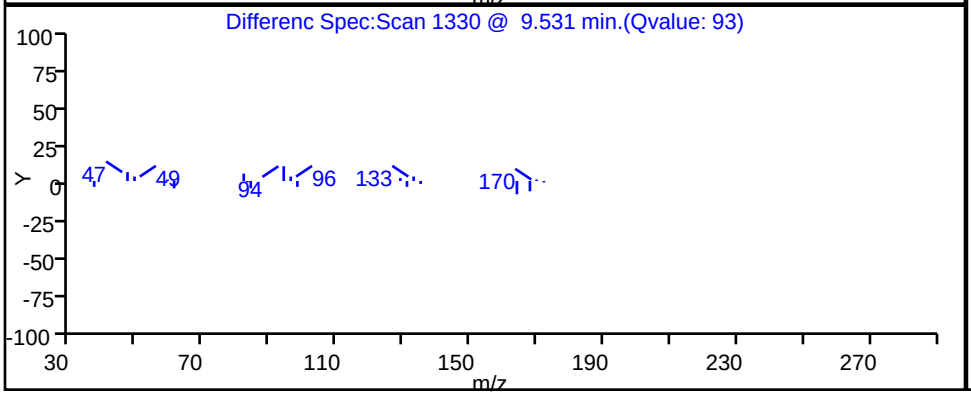
Injection Date:	28-Sep-2015 17:35:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-E-1	Lab Sample ID:	180-47935-1		
Client ID:	HD-MW-129-0/1-0				
Operator ID:	001562	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

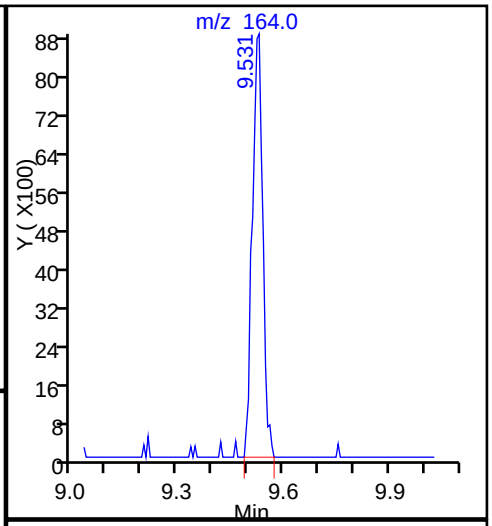
77 Tetrachloroethene, CAS: 127-18-4

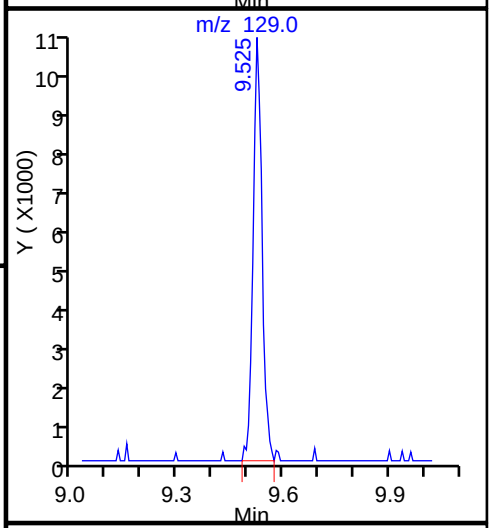


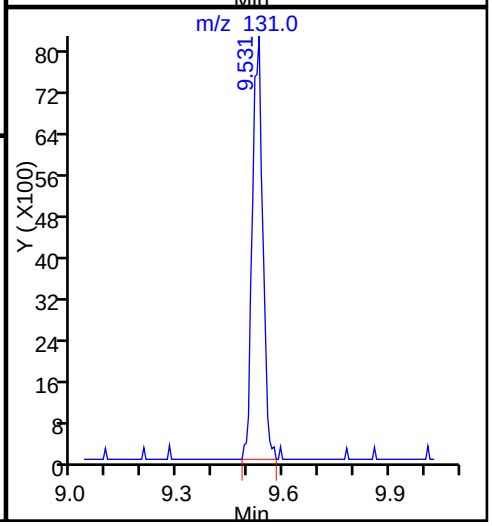












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-131-0/1-0 | Lab Sample ID: 180-47935-2

Matrix: Water | Lab File ID: 60928026.D

Analysis Method: 8260C | Date Collected: 09/18/2015 10:07

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 21:38

Soil Aliquot Vol: | Dilution Factor: 4

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	4.0	U	4.0	1.1
75-01-4	Vinyl chloride	4.0	U	4.0	0.91
74-83-9	Bromomethane	4.0	U	4.0	1.3
75-00-3	Chloroethane	4.0	U	4.0	0.86
75-35-4	1,1-Dichloroethene	1.4	J	4.0	1.2
67-64-1	Acetone	20	U	20	10
75-15-0	Carbon disulfide	4.0	U	4.0	0.85
75-09-2	Methylene Chloride	4.0	U	4.0	0.50
156-60-5	trans-1,2-Dichloroethene	4.0	U	4.0	0.68
1634-04-4	Methyl tert-butyl ether	4.0	U	4.0	0.73
75-34-3	1,1-Dichloroethane	4.2		4.0	0.47
156-59-2	cis-1,2-Dichloroethene	100		4.0	0.95
74-97-5	Bromochloromethane	4.0	U	4.0	0.72
78-93-3	2-Butanone (MEK)	20	U	20	2.2
67-66-3	Chloroform	11		4.0	0.68
71-55-6	1,1,1-Trichloroethane	4.0	U	4.0	1.1
56-23-5	Carbon tetrachloride	4.0	U	4.0	0.55
71-43-2	Benzene	4.0	U	4.0	0.42
107-06-2	1,2-Dichloroethane	4.0	U	4.0	0.85
79-01-6	*Trichloroethene*	*540*	*E*	*4.0*	*0.57*
78-87-5	1,2-Dichloropropane	4.0	U	4.0	0.38
75-27-4	Bromodichloromethane	4.0	U	4.0	0.52
10061-01-5	cis-1,3-Dichloropropene	4.0	U	4.0	0.75
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	2.1
108-88-3	Toluene	4.0	U	4.0	0.60
10061-02-6	trans-1,3-Dichloropropene	4.0	U	4.0	0.59
79-00-5	1,1,2-Trichloroethane	1.6	J	4.0	0.81
127-18-4	Tetrachloroethene	6.2		4.0	0.59
591-78-6	2-Hexanone	20	U ^c	20	0.64
124-48-1	Dibromochloromethane	4.0	U	4.0	0.55
106-93-4	1,2-Dibromoethane (EDB)	4.0	U	4.0	0.72
108-90-7	Chlorobenzene	4.0	U	4.0	0.54
630-20-6	1,1,1,2-Tetrachloroethane	4.0	U	4.0	1.1
100-41-4	Ethylbenzene	4.0	U	4.0	0.91
1330-20-7	Xylenes, Total	12	U	12	2.0
100-42-5	Styrene	4.0	U	4.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-131-0/1-0 | Lab Sample ID: 180-47935-2

Matrix: Water | Lab File ID: 60928026.D

Analysis Method: 8260C | Date Collected: 09/18/2015 10:07

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 21:38

Soil Aliquot Vol: | Dilution Factor: 4

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	4.0	U	4.0	0.77
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.80
107-13-1	Acrylonitrile	80	U	80	2.2
123-91-1	1,4-Dioxane	800	U	800	140

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)	90		70-118
1868-53-7	Dibromofluoromethane (Surr)	97		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D
Lims ID: 180-47935-D-2 Lab Sample ID: 180-47935-2
Client ID: HD-MW-131-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2015 21:38:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 4.0000
Sample Info: 180-47935-D-2, 4x
Misc. Info.: 180-0008724-026
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 08:41:22 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 08:41:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.236	4.241	-0.005	86	147871	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.283	0.007	97	507640	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	112760	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.746	0.000	97	190101	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.560	6.547	0.013	93	113827	48.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.930	0.001	70	192171	50.9	
$ 7 Toluene-d8 (Surr)	98	8.944	8.938	0.006	94	470873	52.9	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.584	0.001	86	177125	44.9	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62	1.906	1.905	0.001	2	2987	0.9153	
15 Bromomethane	94		2.240				ND	
16 Chloroethane	64		2.380				ND	
22 1,1-Dichloroethene	96	3.348	3.341	0.007	57	4326	1.69	M
24 Acetone	43		3.426				ND	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.126				ND	
33 Acrylonitrile	53		4.503				ND	
34 trans-1,2-Dichloroethene	96	4.570	4.558	0.012	37	1369	0.4642	M
35 Methyl tert-butyl ether	73		4.564				ND	
37 1,1-Dichloroethane	63	5.197	5.190	0.007	96	27655	5.24	
43 cis-1,2-Dichloroethene	96	5.945	5.933	0.012	83	408994	127.5	
44 2-Butanone (MEK)	43		5.951				ND	
48 Chlorobromomethane	128		6.225				ND	
50 Chloroform	83	6.377	6.371	0.006	96	73372	14.0	
51 1,1,1-Trichloroethane	97		6.535				ND	
53 Carbon tetrachloride	117		6.717				ND	
56 Benzene	78		6.942				ND	
57 1,2-Dichloroethane	62		7.015				ND	
61 Trichloroethene	130	7.679	7.679	0.000	94	1680428	681.0	E
64 1,2-Dichloropropane	63		7.952				ND	
65 1,4-Dioxane	88		8.038				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.232				ND	
71 cis-1,3-Dichloropropene	75		8.676				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
73 Toluene	91		9.011				ND	
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97	9.455	9.449	0.006	93	4897	2.04	
77 Tetrachloroethene	164	9.528	9.528	0.000	94	15260	7.69	
79 2-Hexanone	43		9.656				ND	
81 Chlorodibromomethane	129		9.820				ND	
82 Ethylene Dibromide	107		9.936				ND	
84 Chlorobenzene	112		10.428				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.659				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

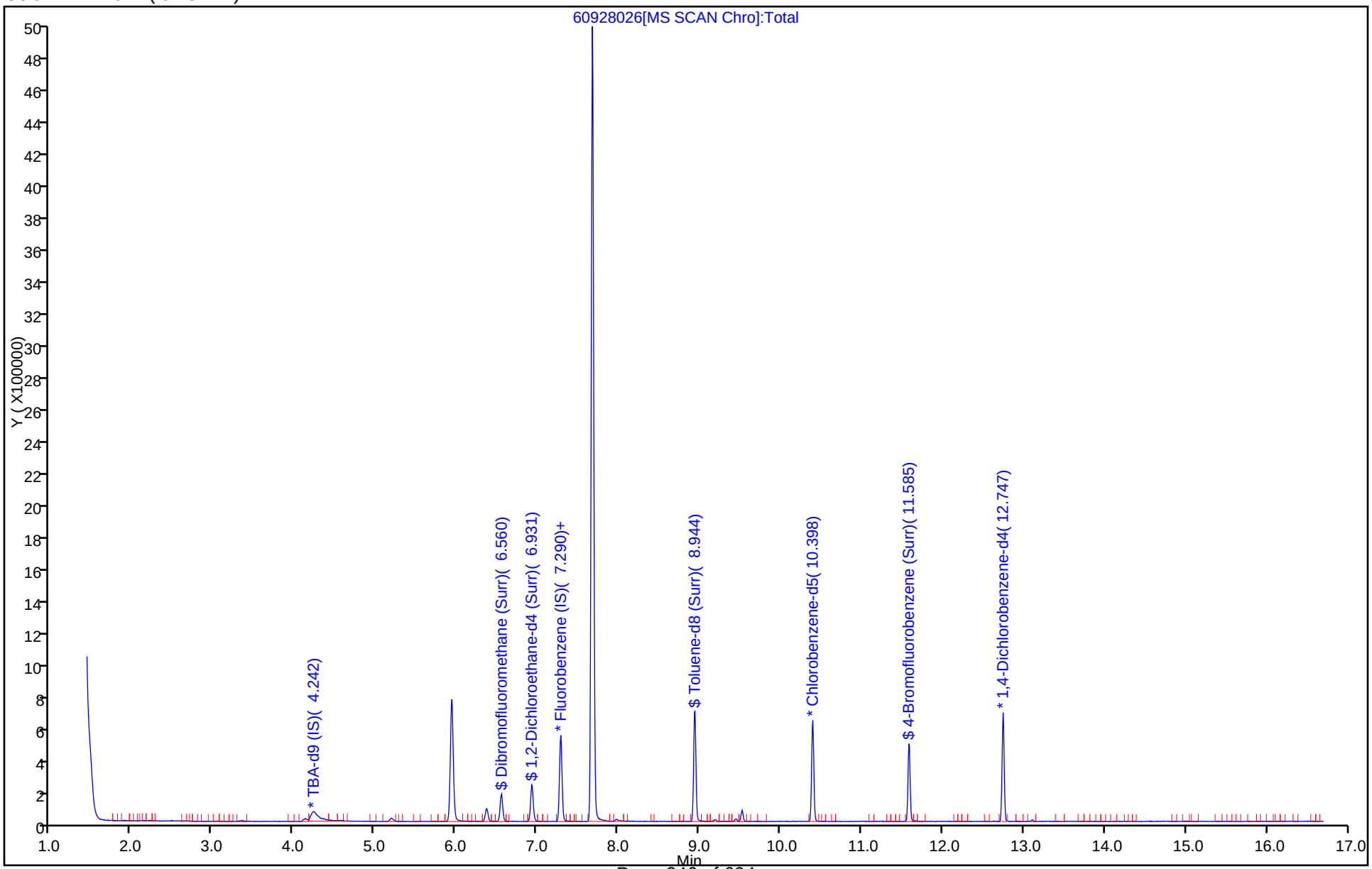
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 29-Sep-2015 08:41:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D				
Injection Date:	28-Sep-2015 21:38:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-D-2	Lab Sample ID:	180-47935-2	Worklist Smp#:	26
Client ID:	HD-MW-131-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	4.0000	ALS Bottle#:	26
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)

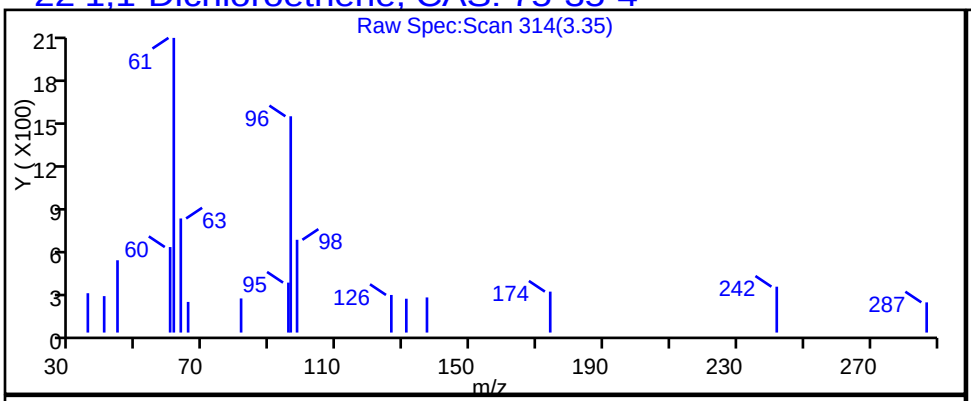


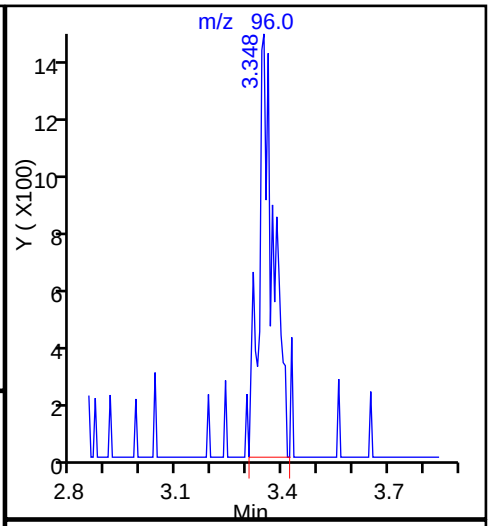
Report Date: 29-Sep-2015 08:41:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

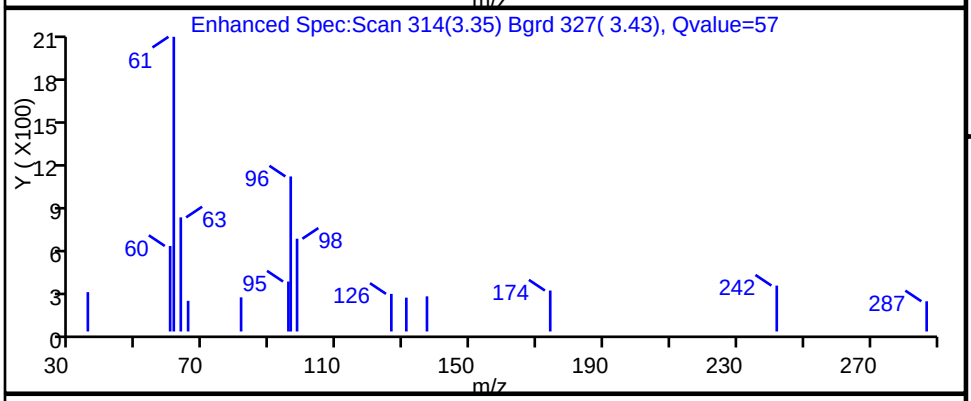
TestAmerica Pittsburgh

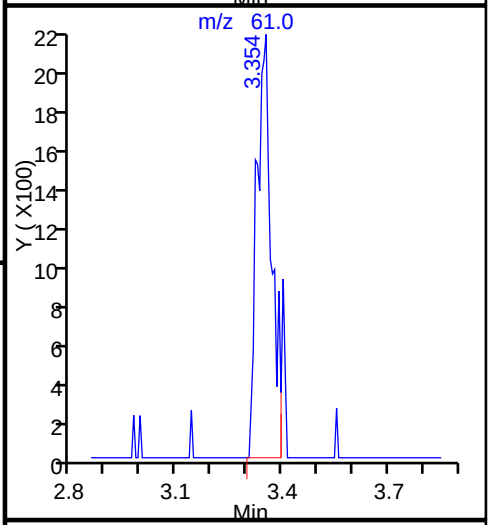
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D				
Injection Date:	28-Sep-2015 21:38:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

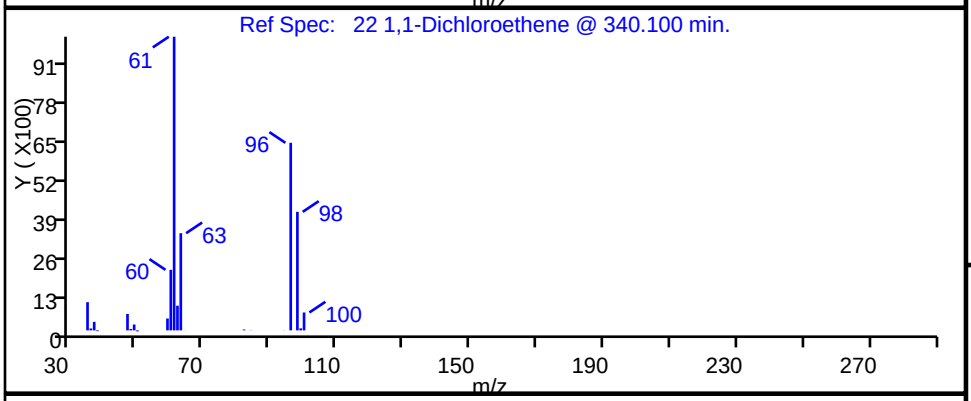
22 1,1-Dichloroethene, CAS: 75-35-4

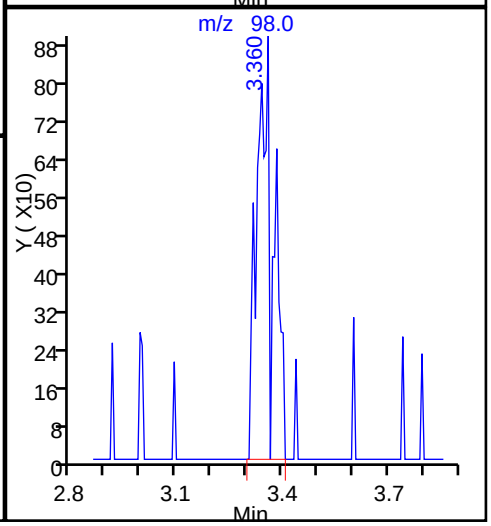


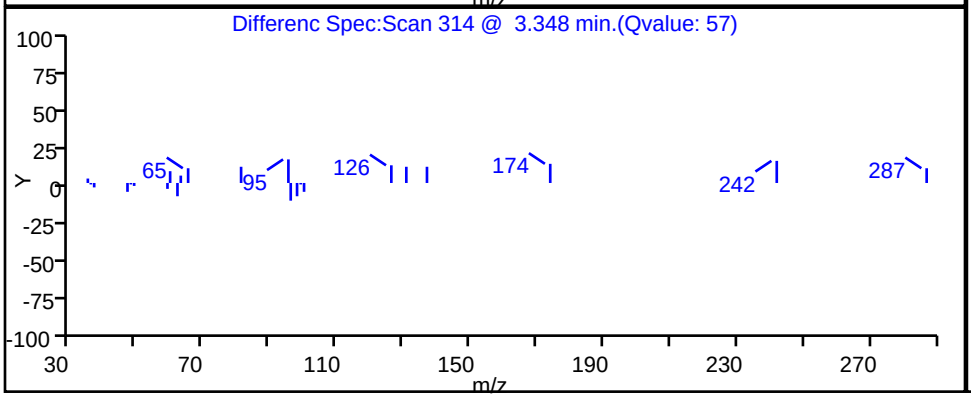












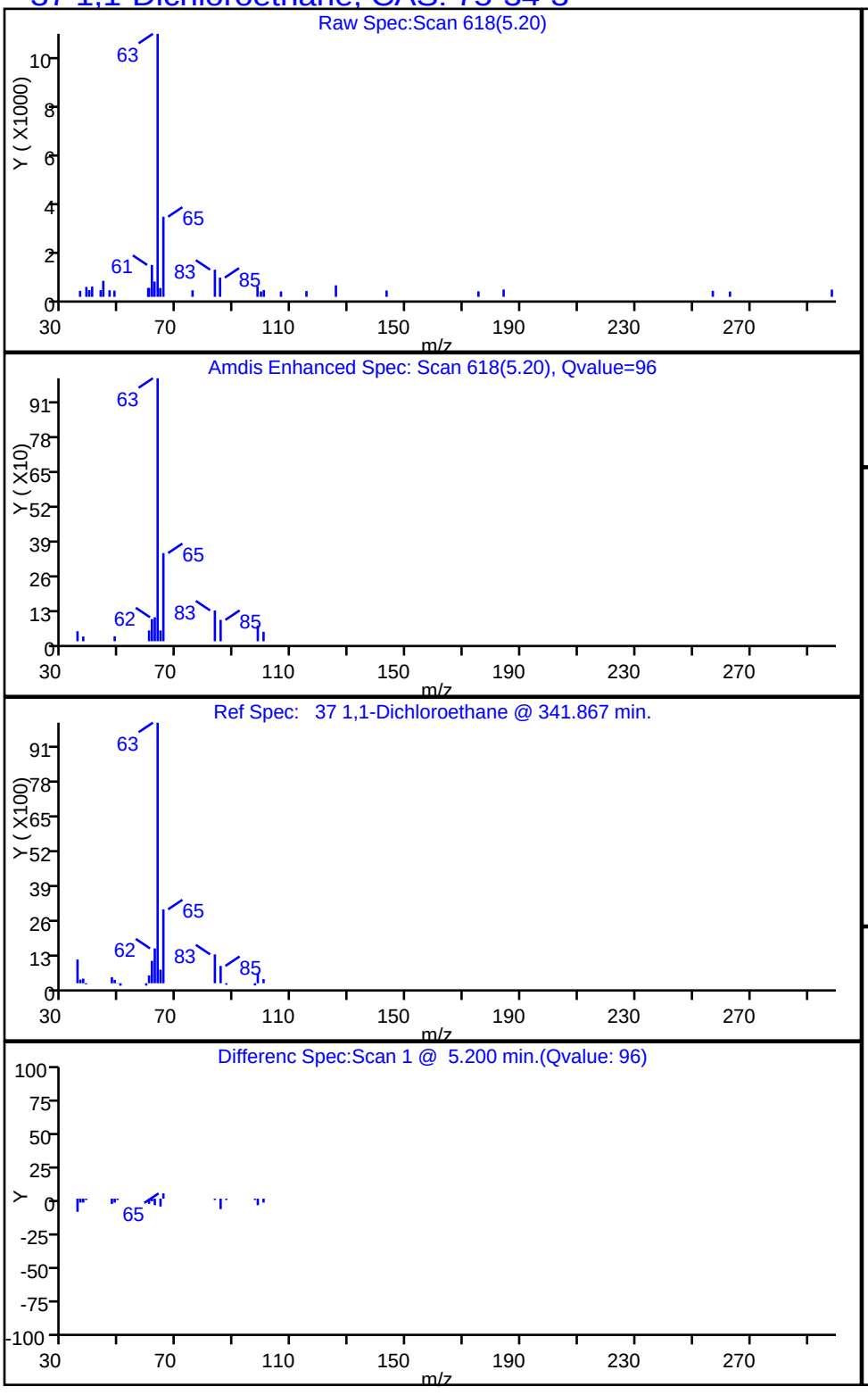
Report Date: 29-Sep-2015 08:41:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

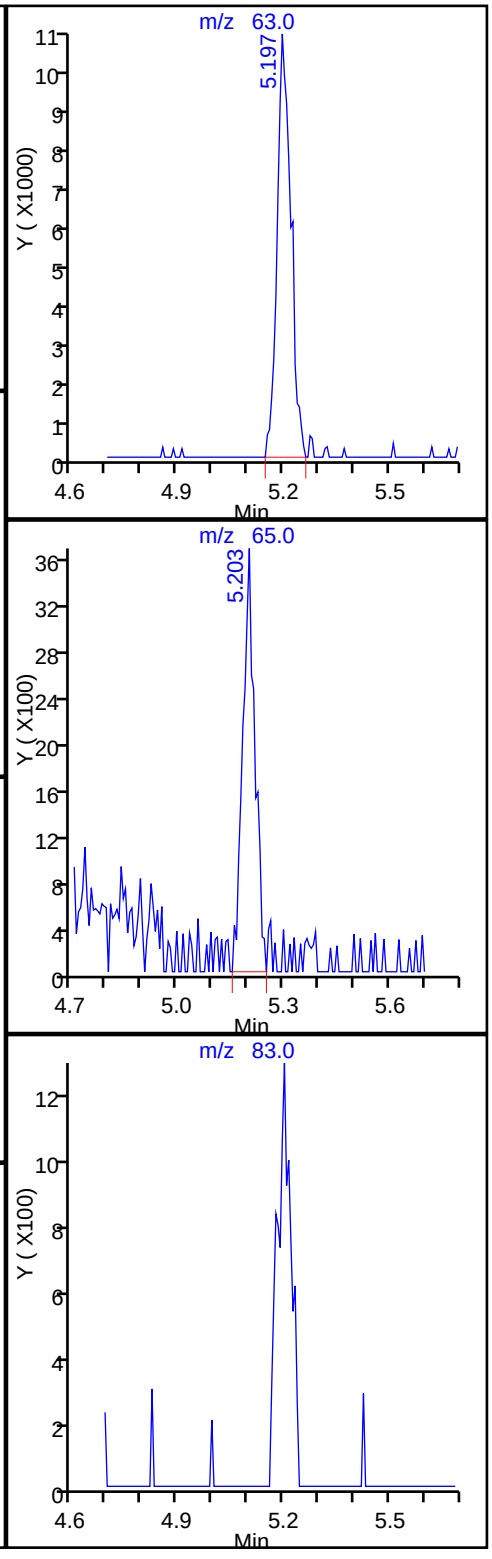
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D

Injection Date:	28-Sep-2015 21:38:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
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



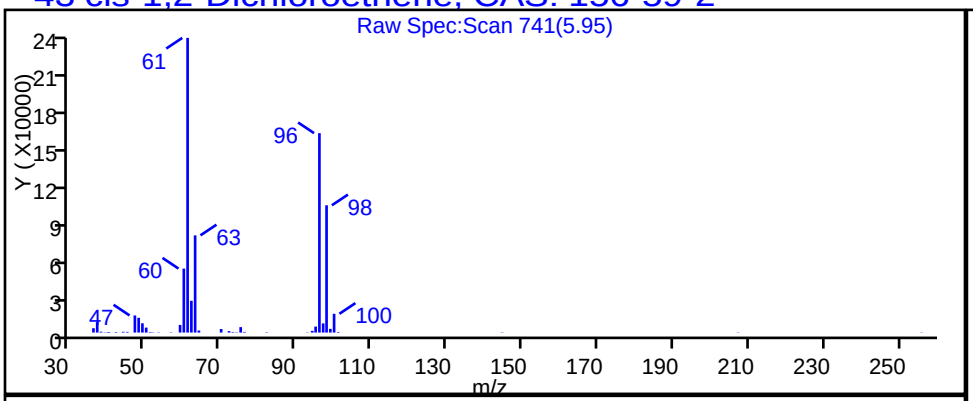


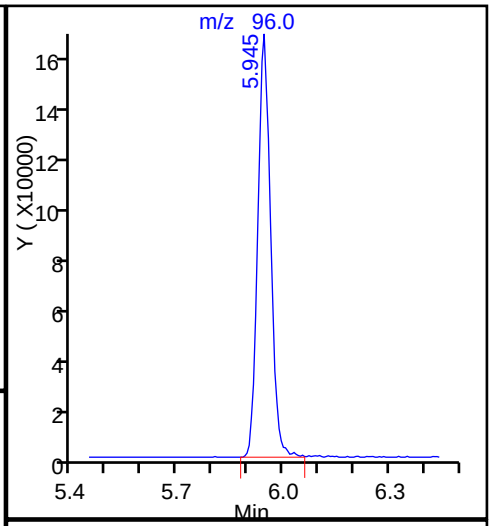
Report Date: 29-Sep-2015 08:41:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

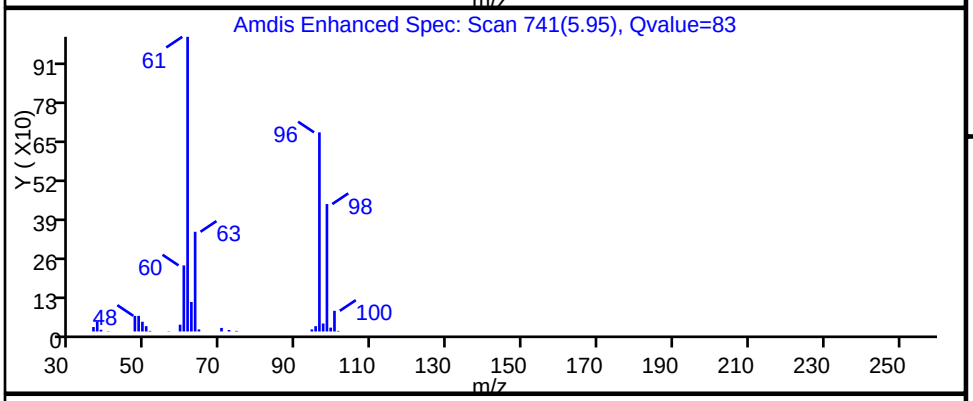
TestAmerica Pittsburgh

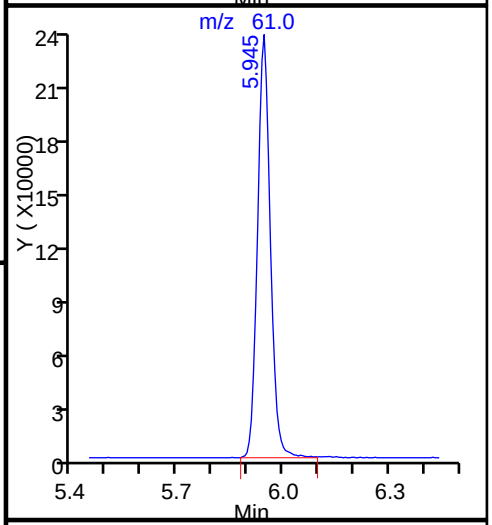
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D				
Injection Date:	28-Sep-2015 21:38:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

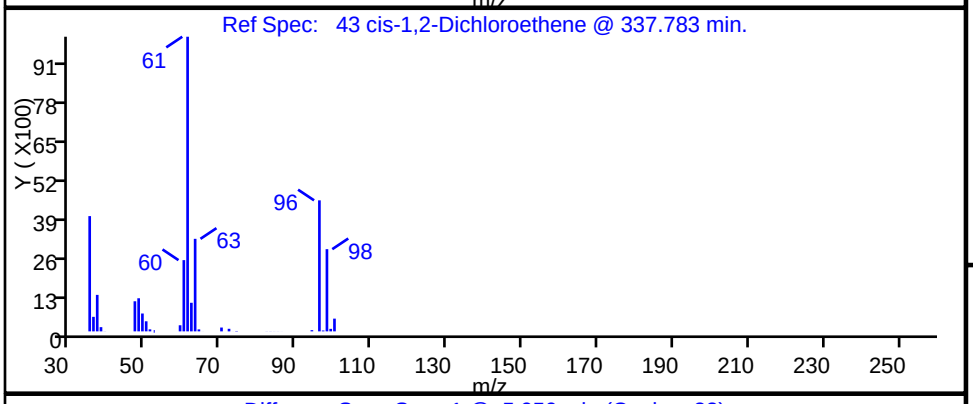
43 cis-1,2-Dichloroethene, CAS: 156-59-2

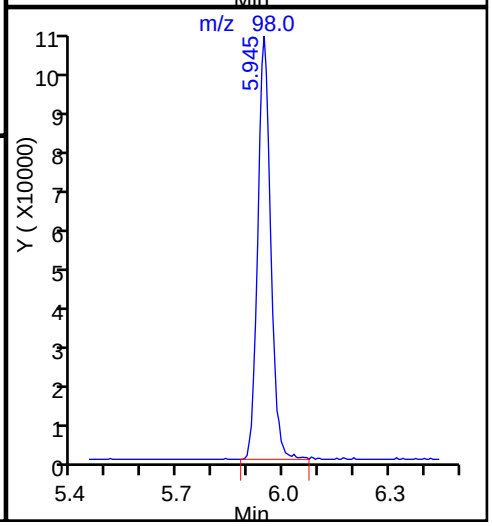


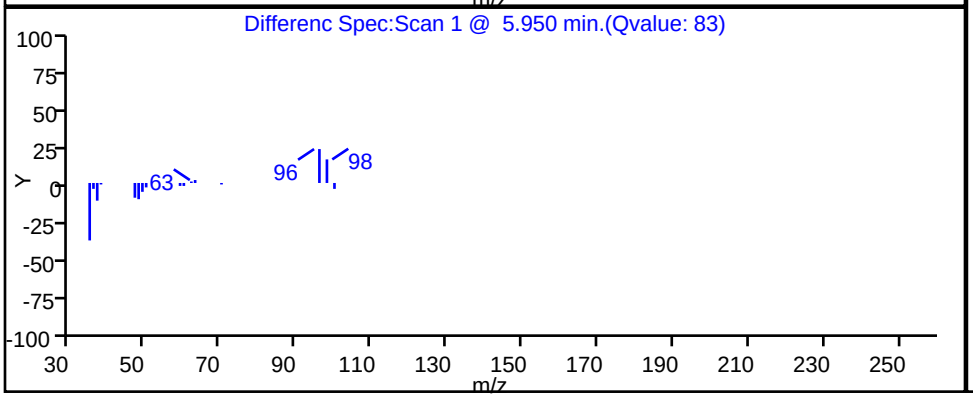












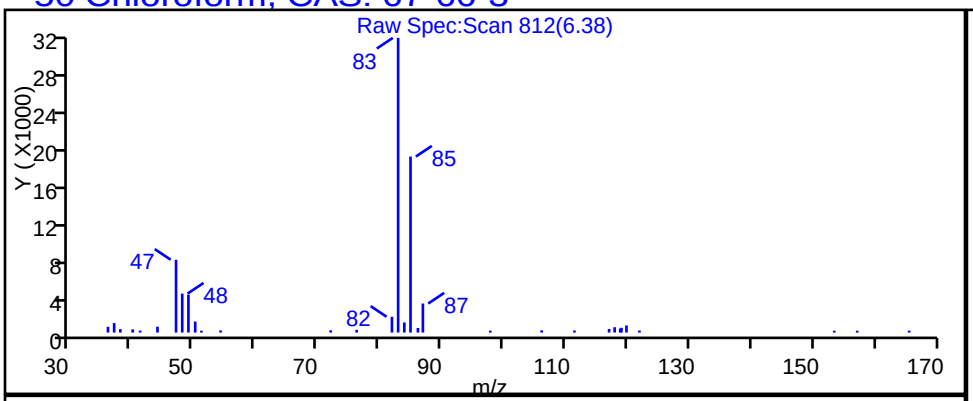
Report Date: 29-Sep-2015 08:41:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

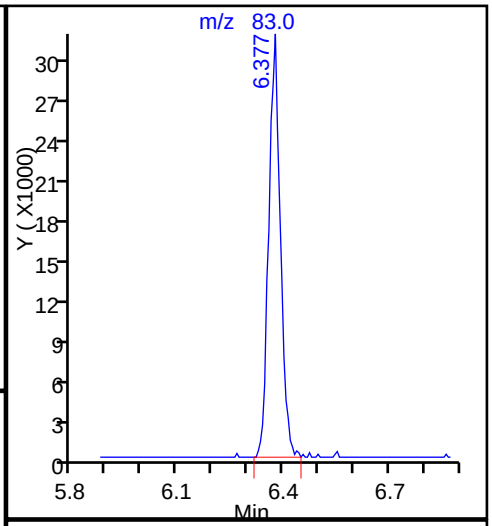
TestAmerica Pittsburgh

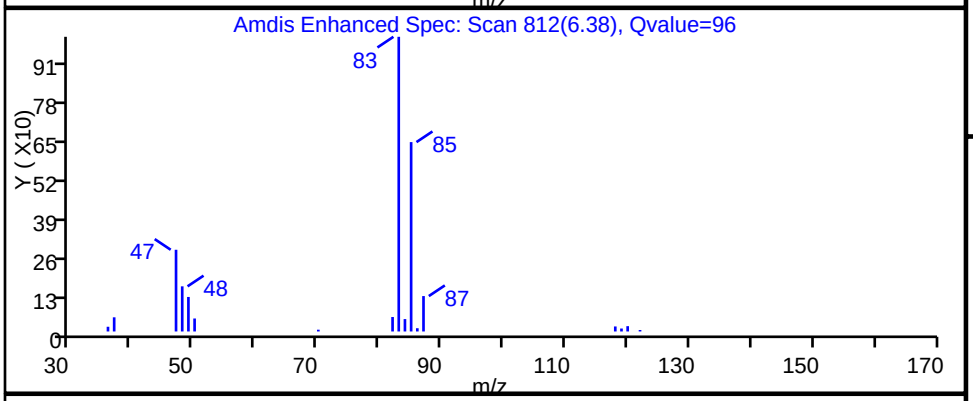
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D

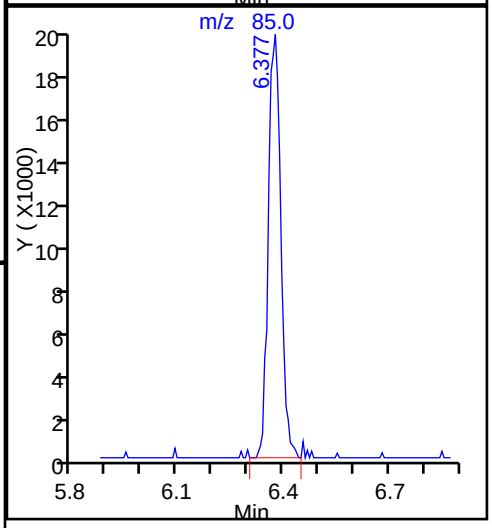
Injection Date:	28-Sep-2015 21:38:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

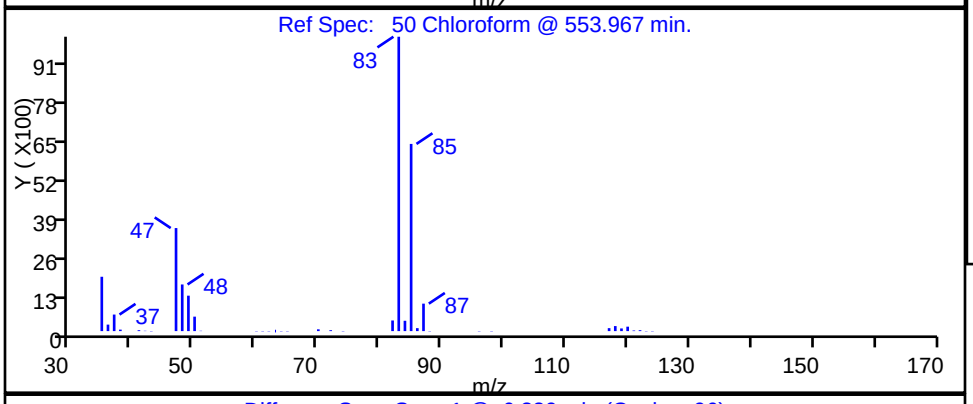
50 Chloroform, CAS: 67-66-3

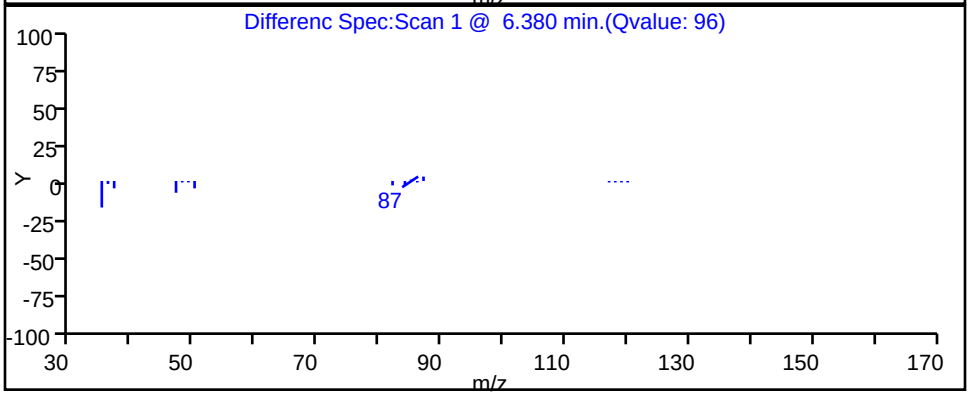










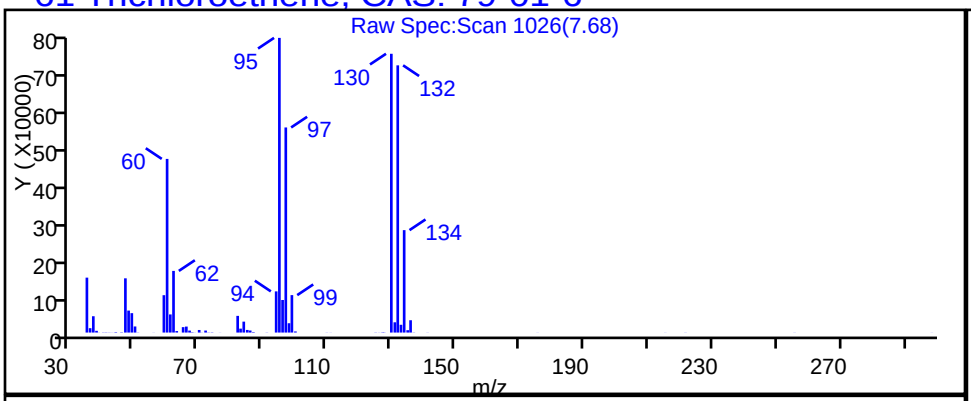


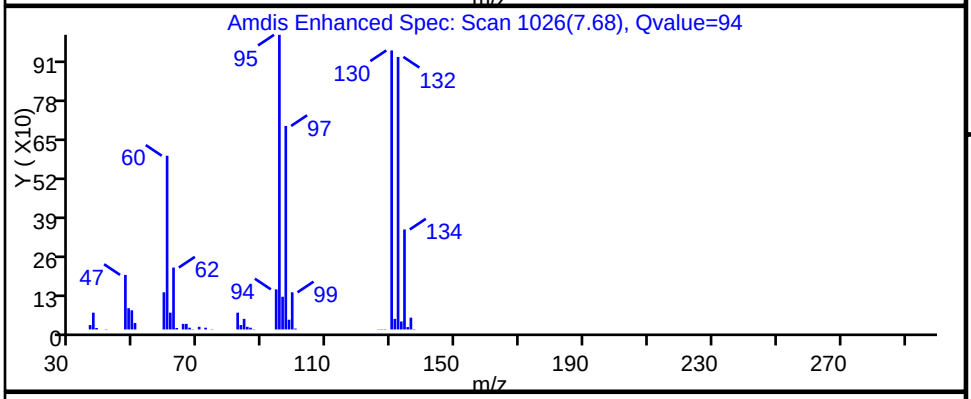
Report Date: 29-Sep-2015 08:41:23 Chrom Revision: 2.2 08-Sep-2015 13:41:46

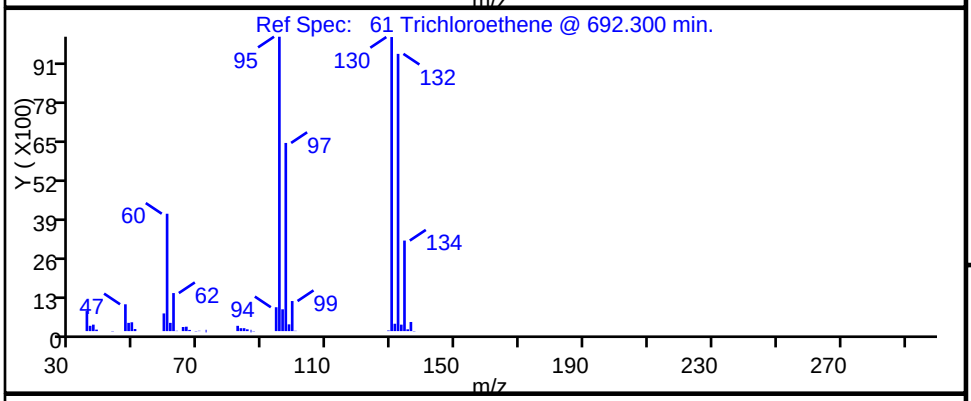
TestAmerica Pittsburgh

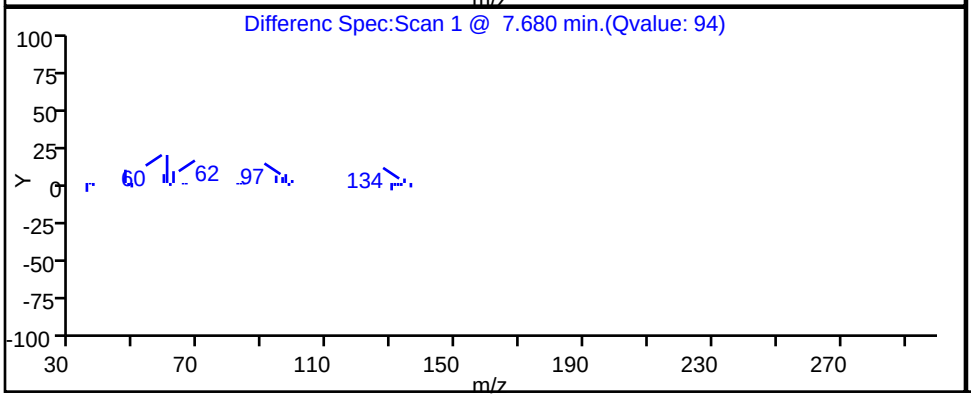
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D		
Injection Date:	28-Sep-2015 21:38:30	Instrument ID:	CHHP6
Lims ID:	180-47935-D-2	Lab Sample ID:	180-47935-2
Client ID:	HD-MW-131-0/1-0		
Operator ID:	001562	ALS Bottle#:	26 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	4.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

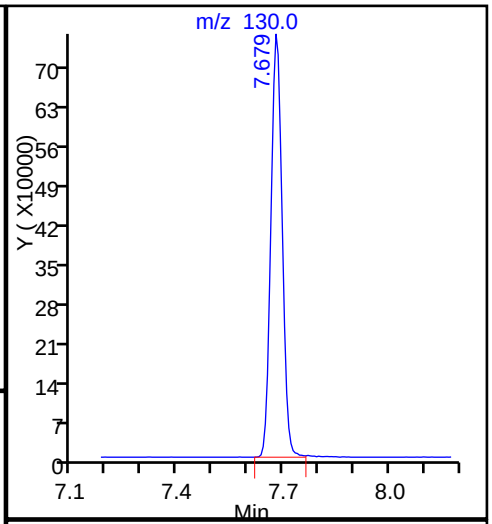
61 Trichloroethene, CAS: 79-01-6

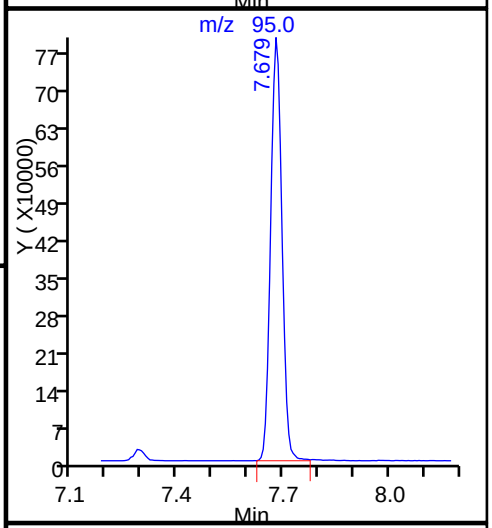


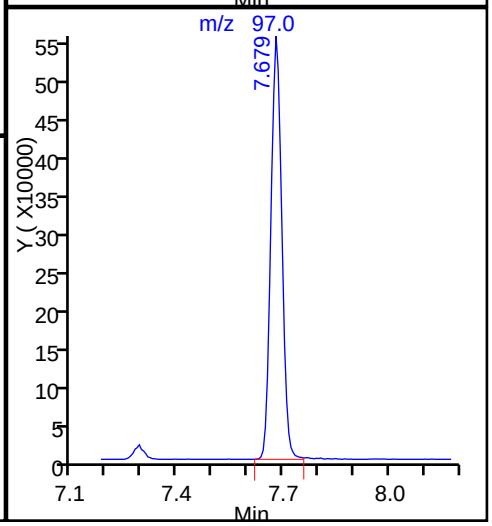










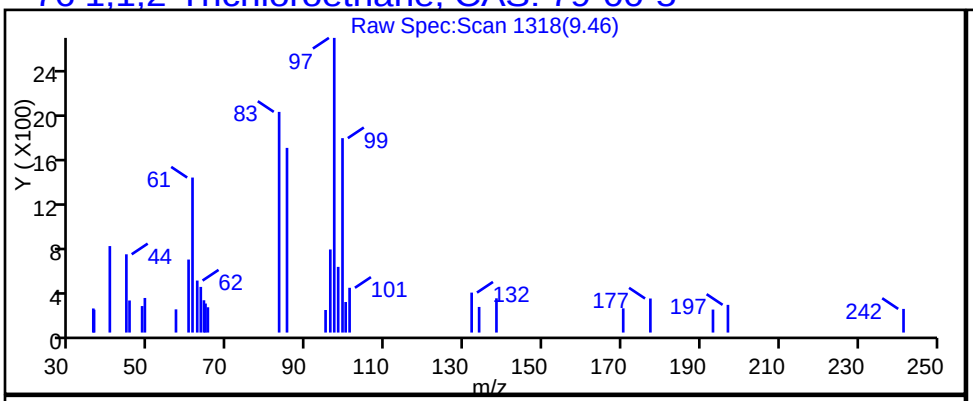


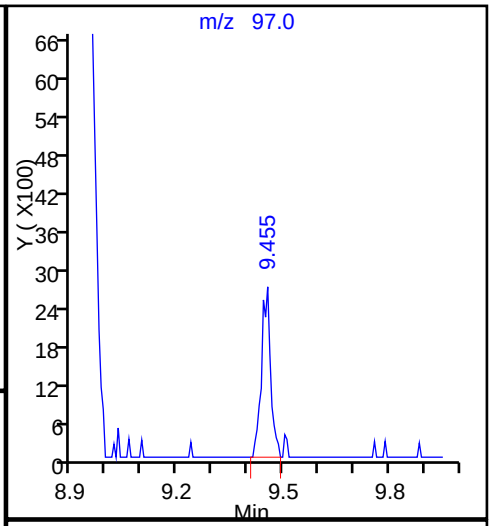
Report Date: 29-Sep-2015 08:41:23 Chrom Revision: 2.2 08-Sep-2015 13:41:46

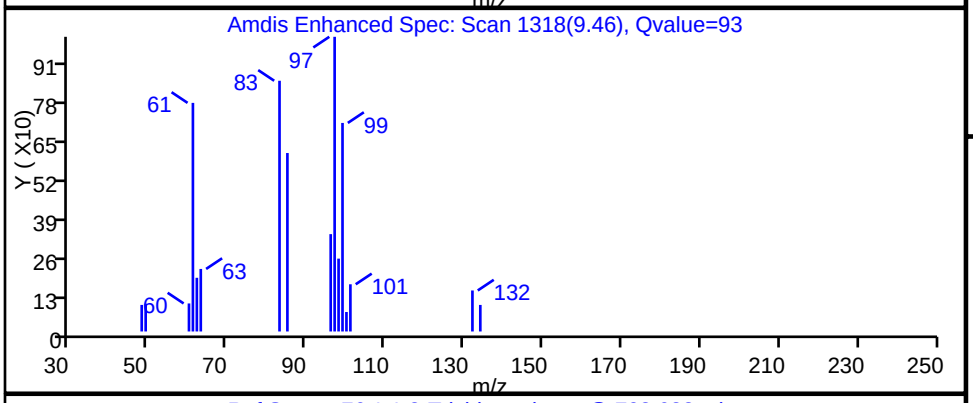
TestAmerica Pittsburgh

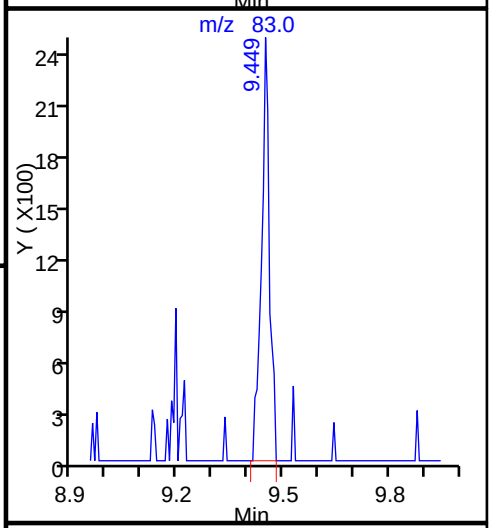
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D				
Injection Date:	28-Sep-2015 21:38:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

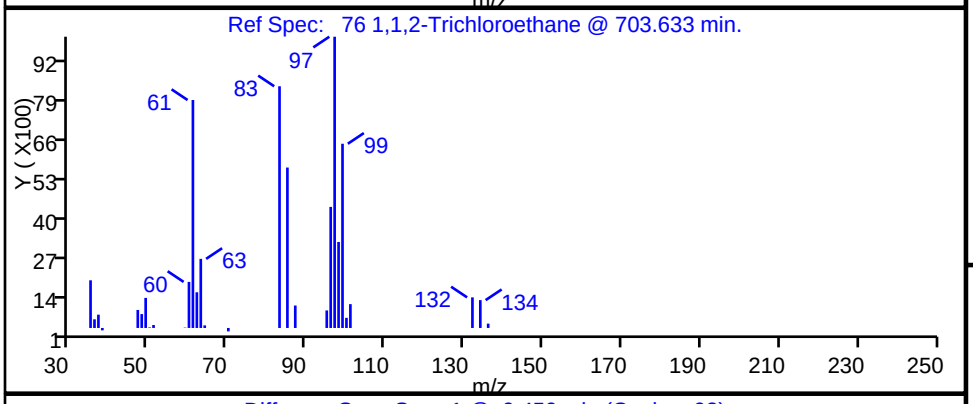
76 1,1,2-Trichloroethane, CAS: 79-00-5

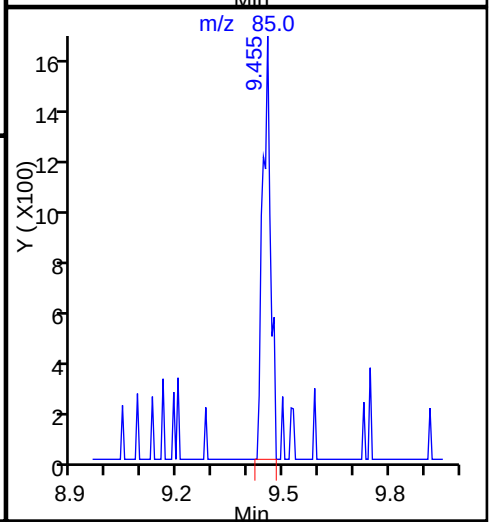


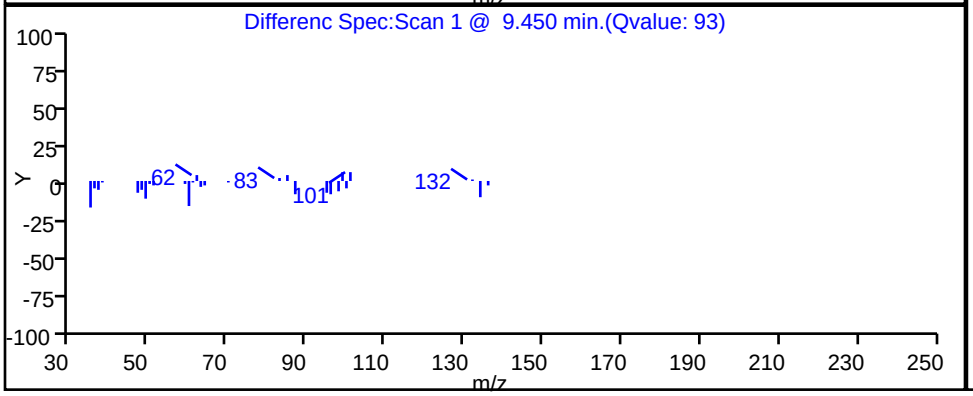










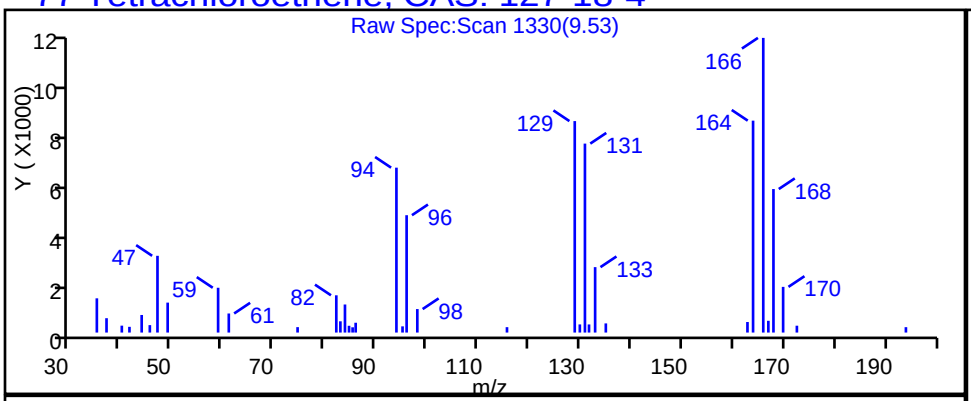


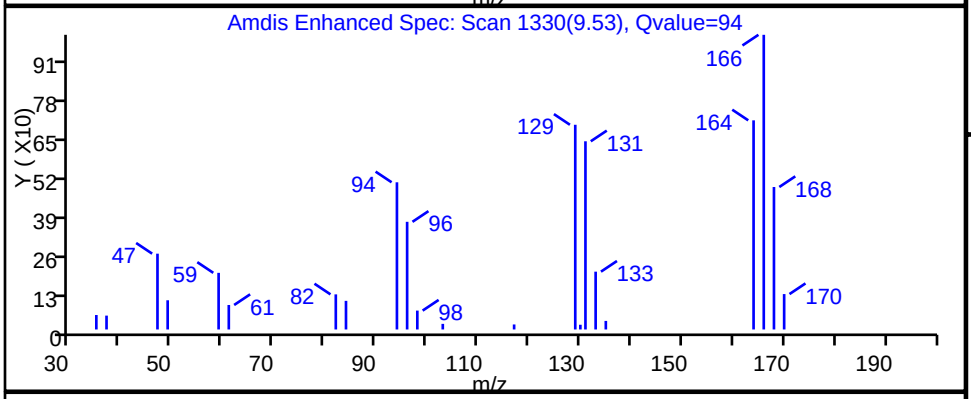
Report Date: 29-Sep-2015 08:41:23 Chrom Revision: 2.2 08-Sep-2015 13:41:46

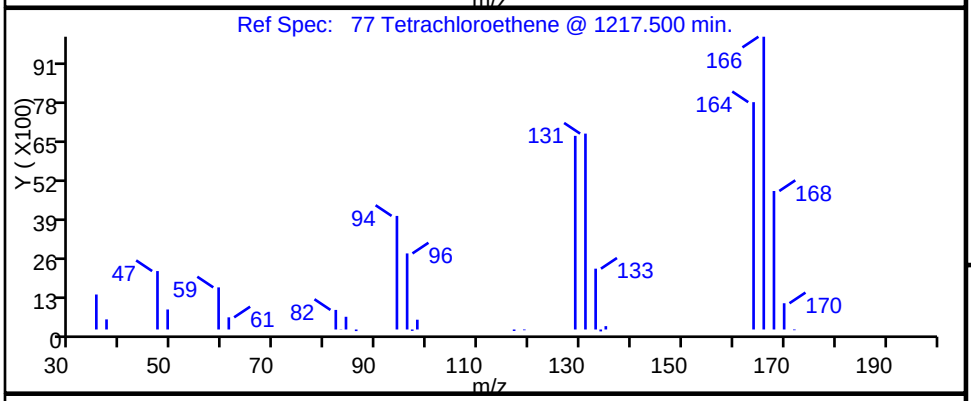
TestAmerica Pittsburgh

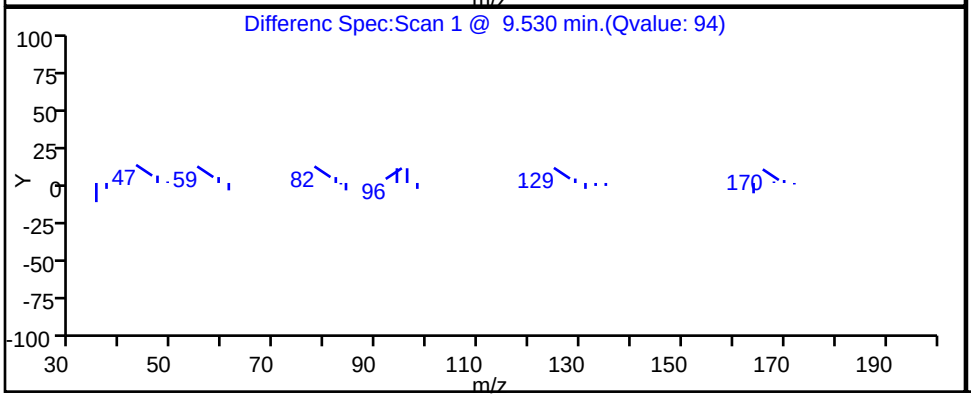
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D		
Injection Date:	28-Sep-2015 21:38:30	Instrument ID:	CHHP6
Lims ID:	180-47935-D-2	Lab Sample ID:	180-47935-2
Client ID:	HD-MW-131-0/1-0		
Operator ID:	001562	ALS Bottle#:	26 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	4.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

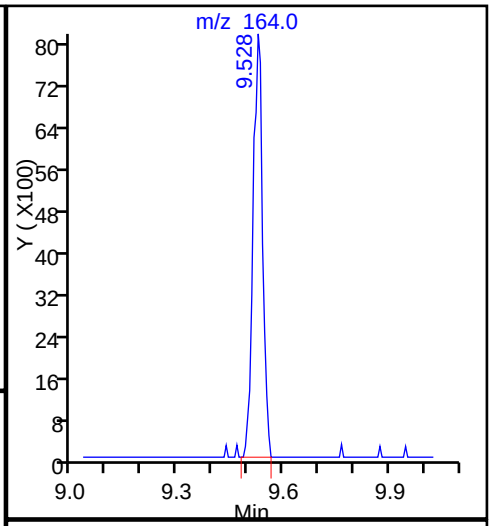
77 Tetrachloroethene, CAS: 127-18-4

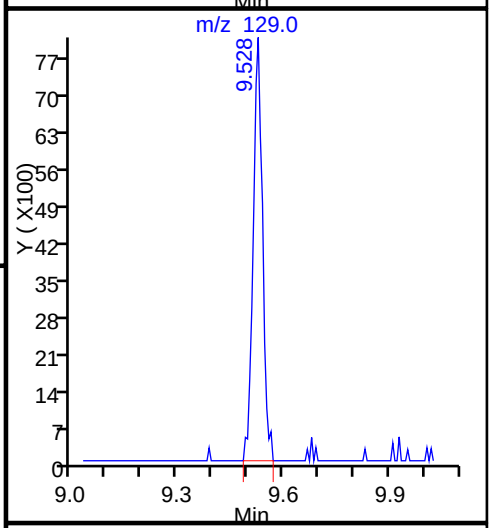


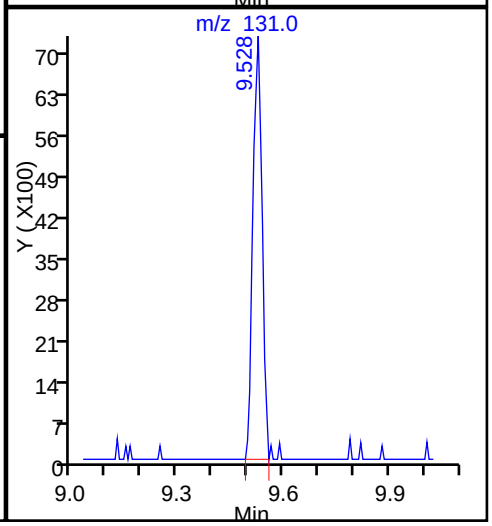












Manual Integration/User Assign Peak Report

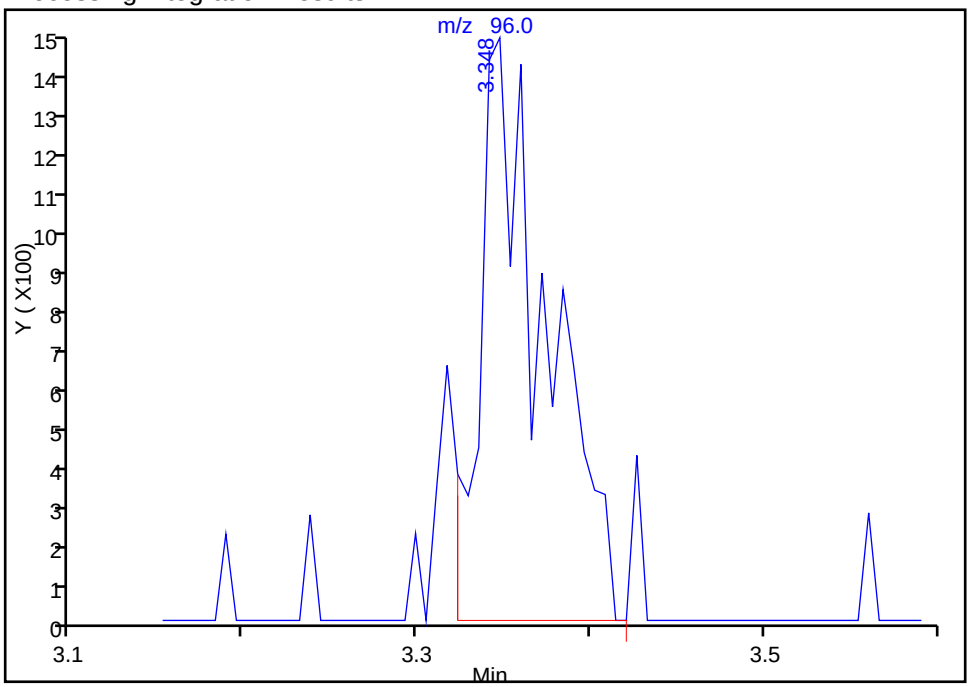
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D				
Injection Date:	28-Sep-2015 21:38:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
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

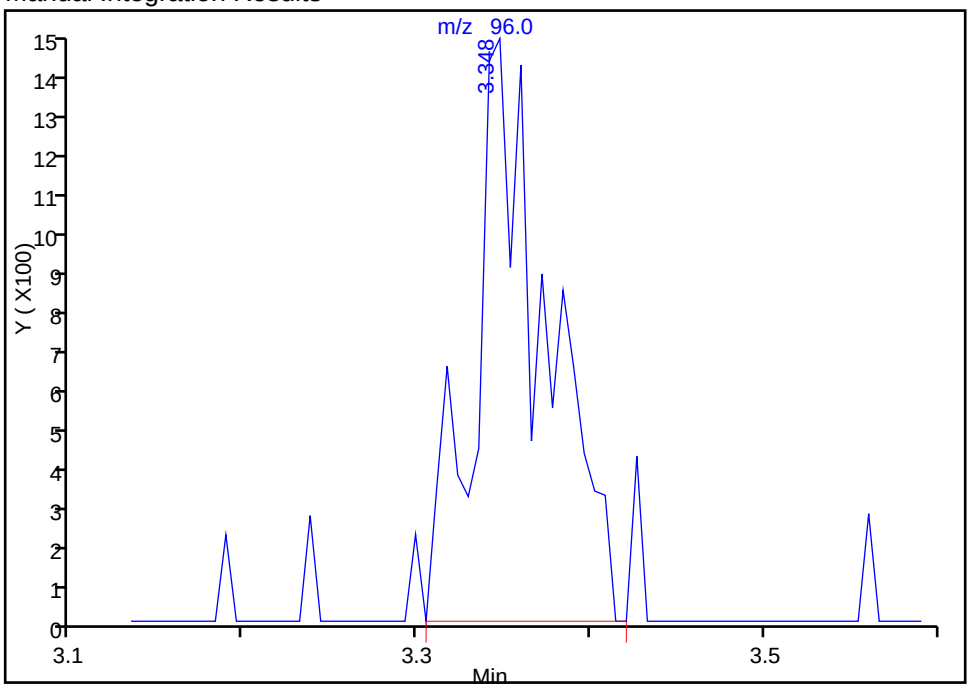
Processing Integration Results

RT: 3.35
Area: 3965
Amount: 1.551680
Amount Units: ng



Manual Integration Results

RT: 3.35
Area: 4326
Amount: 1.692955
Amount Units: ng



Reviewer: fergusond, 29-Sep-2015 08:41:22
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

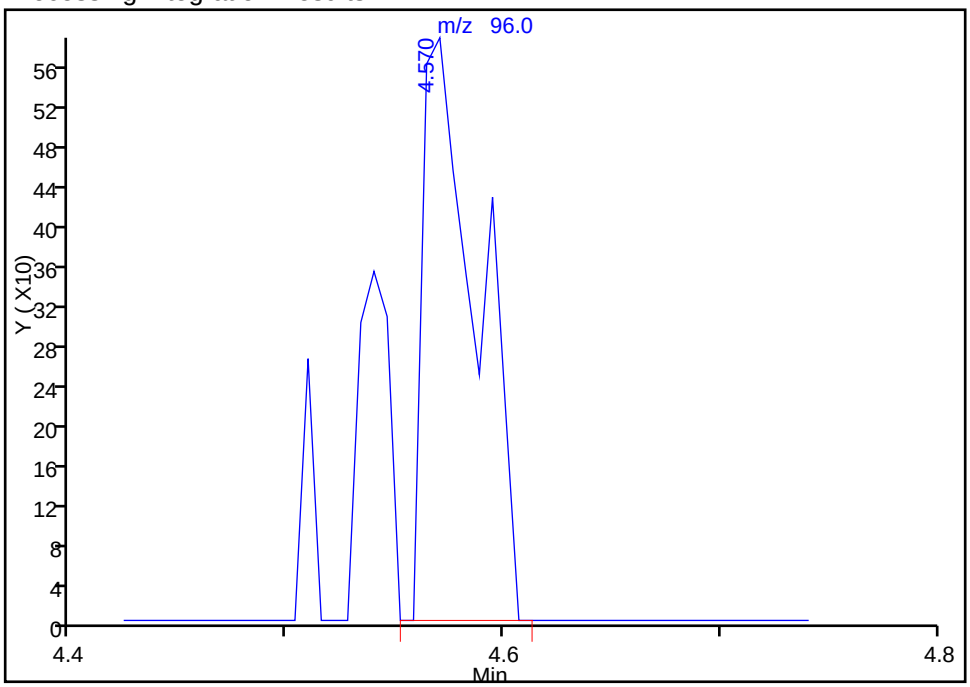
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928026.D				
Injection Date:	28-Sep-2015 21:38:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
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

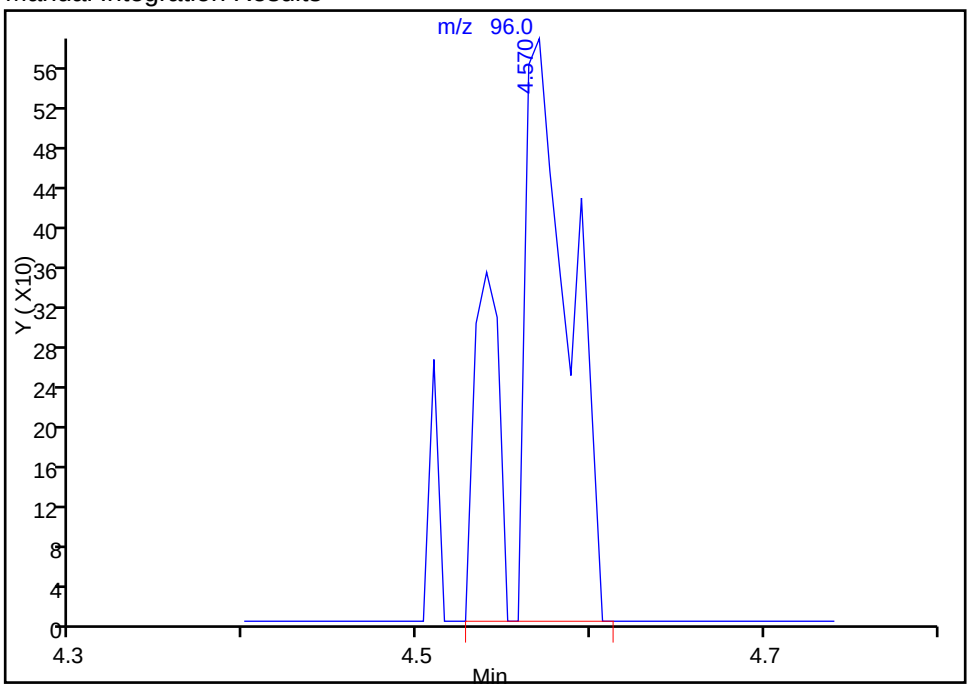
Processing Integration Results

RT: 4.57
Area: 1023
Amount: 0.346895
Amount Units: ng



Manual Integration Results

RT: 4.57
Area: 1369
Amount: 0.464222
Amount Units: ng



Reviewer: fergusond, 29-Sep-2015 08:41:22
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-131-0/1-0 DL | Lab Sample ID: 180-47935-2 DL

Matrix: Water | Lab File ID: 60928017.D

Analysis Method: 8260C | Date Collected: 09/18/2015 10:07

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 18:00

Soil Aliquot Vol: | Dilution Factor: 40

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	40	U	40	11
75-01-4	Vinyl chloride	40	U	40	9.1
74-83-9	Bromomethane	40	U	40	13
75-00-3	Chloroethane	40	U	40	8.6
75-35-4	1,1-Dichloroethene	40	U	40	12
67-64-1	Acetone	200	U	200	100
75-15-0	Carbon disulfide	40	U	40	8.5
75-09-2	Methylene Chloride	40	U	40	5.0
156-60-5	trans-1,2-Dichloroethene	40	U	40	6.8
1634-04-4	Methyl tert-butyl ether	40	U	40	7.3
75-34-3	1,1-Dichloroethane	4.9	J	40	4.7
156-59-2	cis-1,2-Dichloroethene	100		40	9.5
74-97-5	Bromochloromethane	40	U	40	7.2
78-93-3	2-Butanone (MEK)	200	U	200	22
67-66-3	Chloroform	12	J	40	6.8
71-55-6	1,1,1-Trichloroethane	40	U	40	11
56-23-5	Carbon tetrachloride	40	U	40	5.5
71-43-2	Benzene	40	U	40	4.2
107-06-2	1,2-Dichloroethane	40	U	40	8.5
79-01-6	Trichloroethene	640		40	5.7
78-87-5	1,2-Dichloropropane	40	U	40	3.8
75-27-4	Bromodichloromethane	40	U	40	5.2
10061-01-5	cis-1,3-Dichloropropene	40	U	40	7.5
108-10-1	4-Methyl-2-pentanone (MIBK)	200	U	200	21
108-88-3	Toluene	40	U	40	6.0
10061-02-6	trans-1,3-Dichloropropene	40	U	40	5.9
79-00-5	1,1,2-Trichloroethane	40	U	40	8.1
127-18-4	Tetrachloroethene	6.6	J	40	5.9
591-78-6	2-Hexanone	200	U ^c	200	6.4
124-48-1	Dibromochloromethane	40	U	40	5.5
106-93-4	1,2-Dibromoethane (EDB)	40	U	40	7.2
108-90-7	Chlorobenzene	40	U	40	5.4
630-20-6	1,1,1,2-Tetrachloroethane	40	U	40	11
100-41-4	Ethylbenzene	40	U	40	9.1
1330-20-7	Xylenes, Total	120	U	120	20
100-42-5	Styrene	40	U	40	3.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-131-0/1-0 DL | Lab Sample ID: 180-47935-2 DL

Matrix: Water | Lab File ID: 60928017.D

Analysis Method: 8260C | Date Collected: 09/18/2015 10:07

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 18:00

Soil Aliquot Vol: | Dilution Factor: 40

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	*Bromoform*	*40*	*U*	*40*	*7.7*
79-34-5	*1,1,2,2-Tetrachloroethane*	*40*	*U*	*40*	*8.0*
107-13-1	*Acrylonitrile*	*800*	*U*	*800*	*22*
123-91-1	*1,4-Dioxane*	*8000*	*U*	*8000*	*1400*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		64-135
2037-26-5	Toluene-d8 (Surr)	105		71-118
460-00-4	4-Bromofluorobenzene (Surr)	94		70-118
1868-53-7	Dibromofluoromethane (Surr)	99		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928017.D
Lims ID: 180-47935-C-2 Lab Sample ID: 180-47935-2
Client ID: HD-MW-131-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2015 18:00:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 180-47935-C-2, 40x
Misc. Info.: 180-0008724-017
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 08:28:44 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 08:28:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.242	4.241	0.001	89	186526	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.283	0.007	97	536571	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	121218	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.746	0.001	98	194879	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.560	6.547	0.013	92	121860	49.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.930	0.001	71	200391	50.3	
$ 7 Toluene-d8 (Surr)	98	8.944	8.938	0.006	95	500477	52.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.584	0.001	85	198866	46.8	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.240				ND	
16 Chloroethane	64		2.380				ND	
22 1,1-Dichloroethene	96		3.341				ND	
24 Acetone	43	3.433	3.426	0.007	73	1923	2.03	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.126				ND	
33 Acrylonitrile	53		4.503				ND	
34 trans-1,2-Dichloroethene	96		4.558				ND	
35 Methyl tert-butyl ether	73		4.564				ND	
37 1,1-Dichloroethane	63	5.203	5.190	0.013	0	3426	0.6140	M
43 cis-1,2-Dichloroethene	96	5.945	5.933	0.012	84	43399	12.8	
44 2-Butanone (MEK)	43		5.951				ND	
48 Chlorobromomethane	128		6.225				ND	
50 Chloroform	83	6.377	6.371	0.006	91	8026	1.45	
51 1,1,1-Trichloroethane	97		6.535				ND	
53 Carbon tetrachloride	117		6.717				ND	
56 Benzene	78		6.942				ND	
57 1,2-Dichloroethane	62		7.015				ND	
61 Trichloroethene	130	7.679	7.679	0.000	96	208593	80.0	
64 1,2-Dichloropropane	63		7.952				ND	
65 1,4-Dioxane	88		8.038				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.232				ND	
71 cis-1,3-Dichloropropene	75		8.676				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
73 Toluene	91		9.011				ND	
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97		9.449				ND	
77 Tetrachloroethene	164	9.522	9.528	-0.006	82	1763	0.8264	
79 2-Hexanone	43		9.656				ND	
81 Chlorodibromomethane	129		9.820				ND	
82 Ethylene Dibromide	107		9.936				ND	
84 Chlorobenzene	112		10.428				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.659				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				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

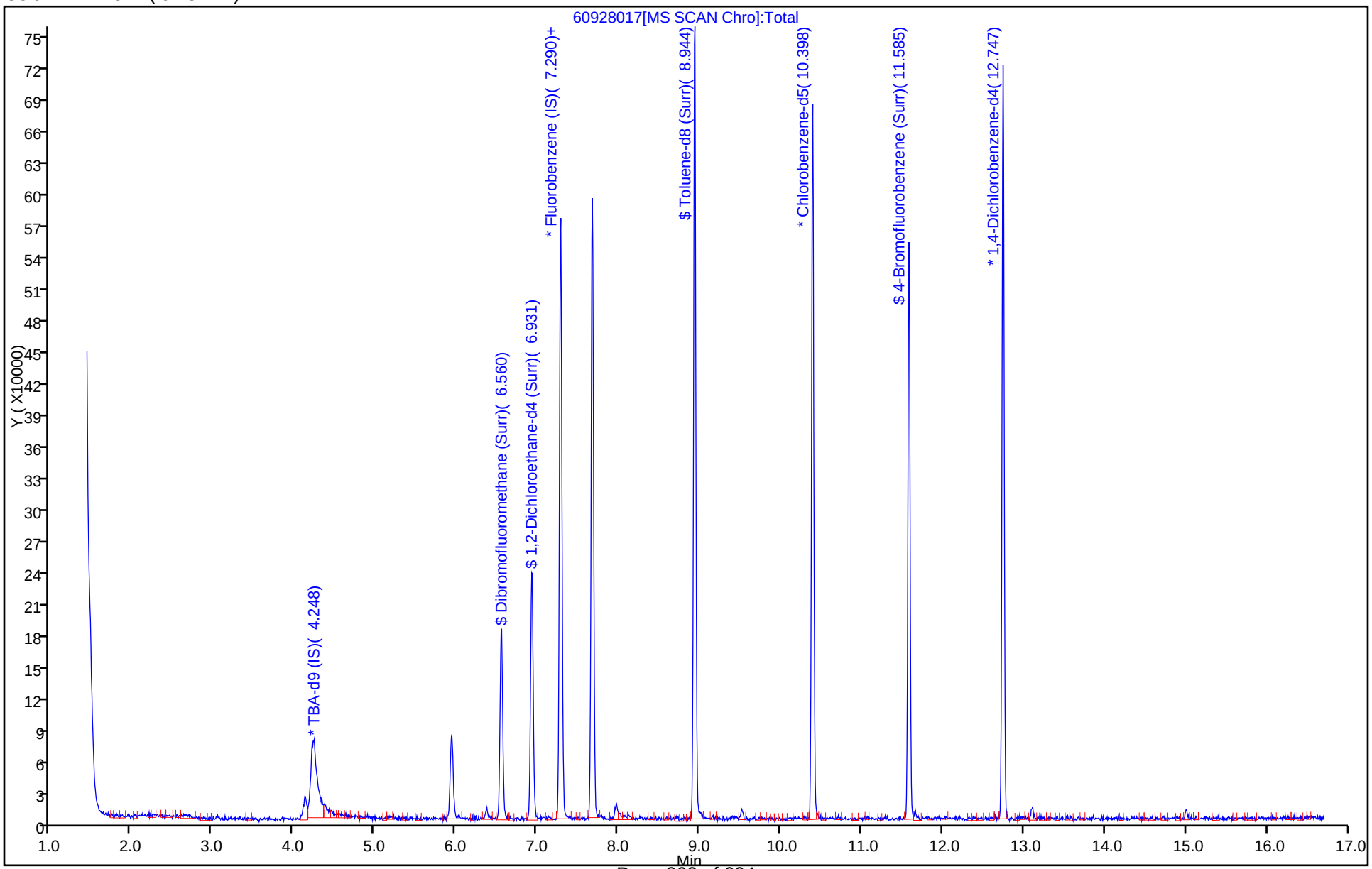
Report Date: 29-Sep-2015 08:28:44 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928017.D

Injection Date:	28-Sep-2015 18:00:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-C-2	Lab Sample ID:	180-47935-2	Worklist Smp#:	17
Client ID:	HD-MW-131-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	40.0000	ALS Bottle#:	17
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

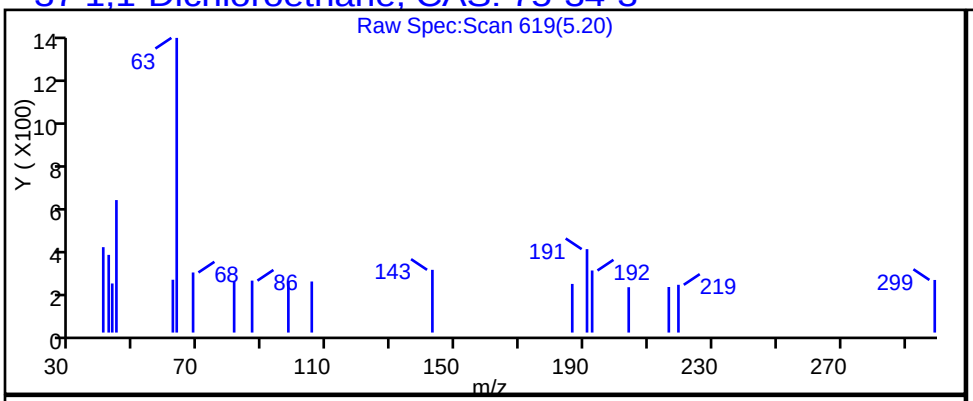
Column: DB-624 (0.18 mm)

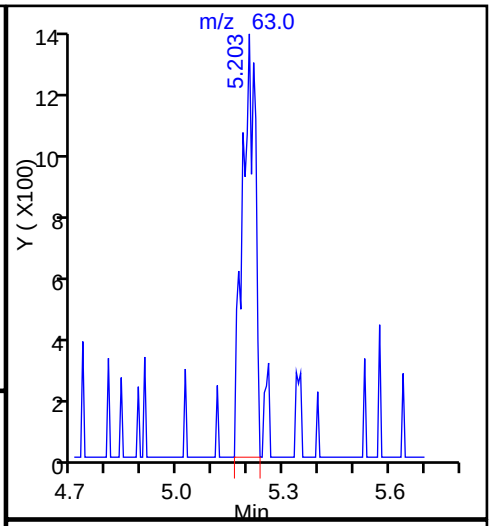


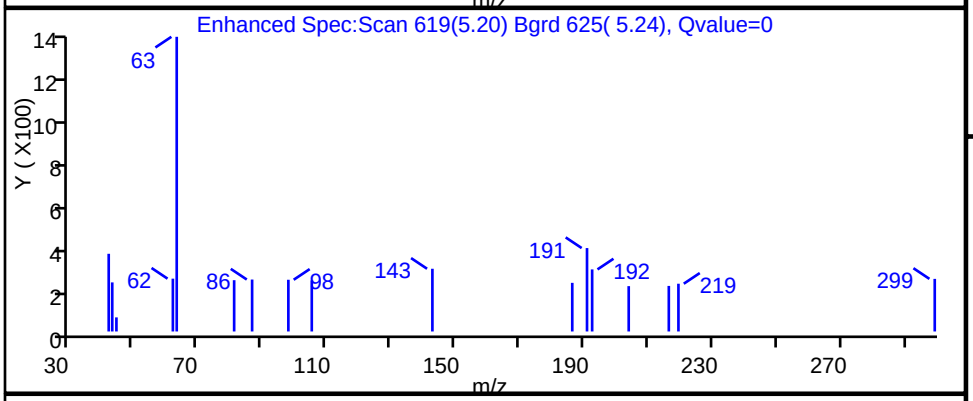
TestAmerica Pittsburgh

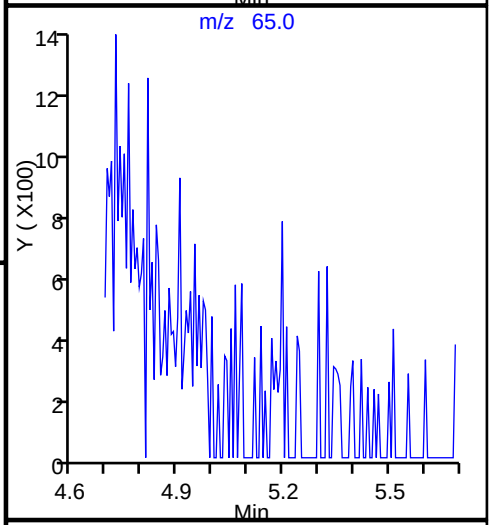
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928017.D		
Injection Date:	28-Sep-2015 18:00:30	Instrument ID:	CHHP6
Lims ID:	180-47935-C-2	Lab Sample ID:	180-47935-2
Client ID:	HD-MW-131-0/1-0		
Operator ID:	001562	ALS Bottle#:	17 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

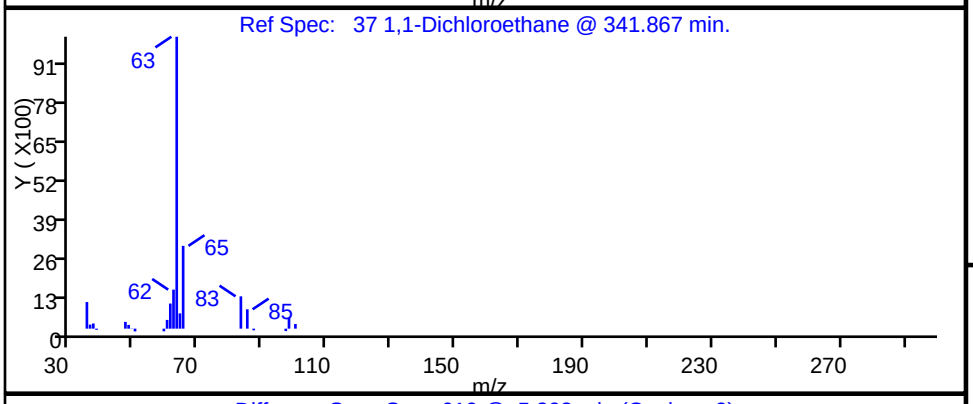
37 1,1-Dichloroethane, CAS: 75-34-3

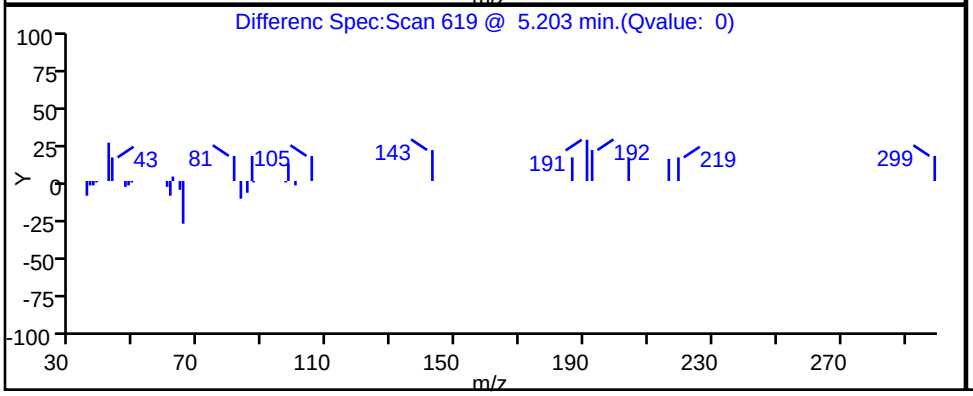


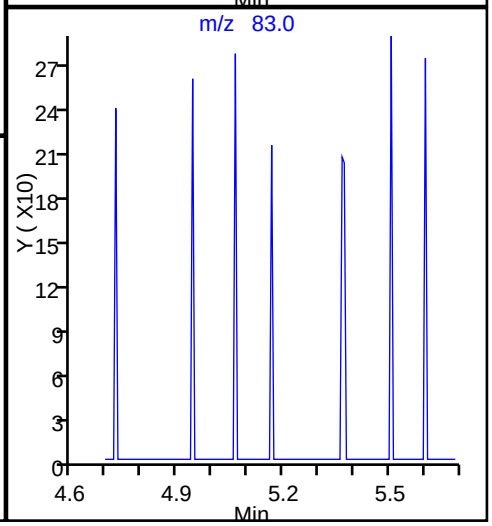












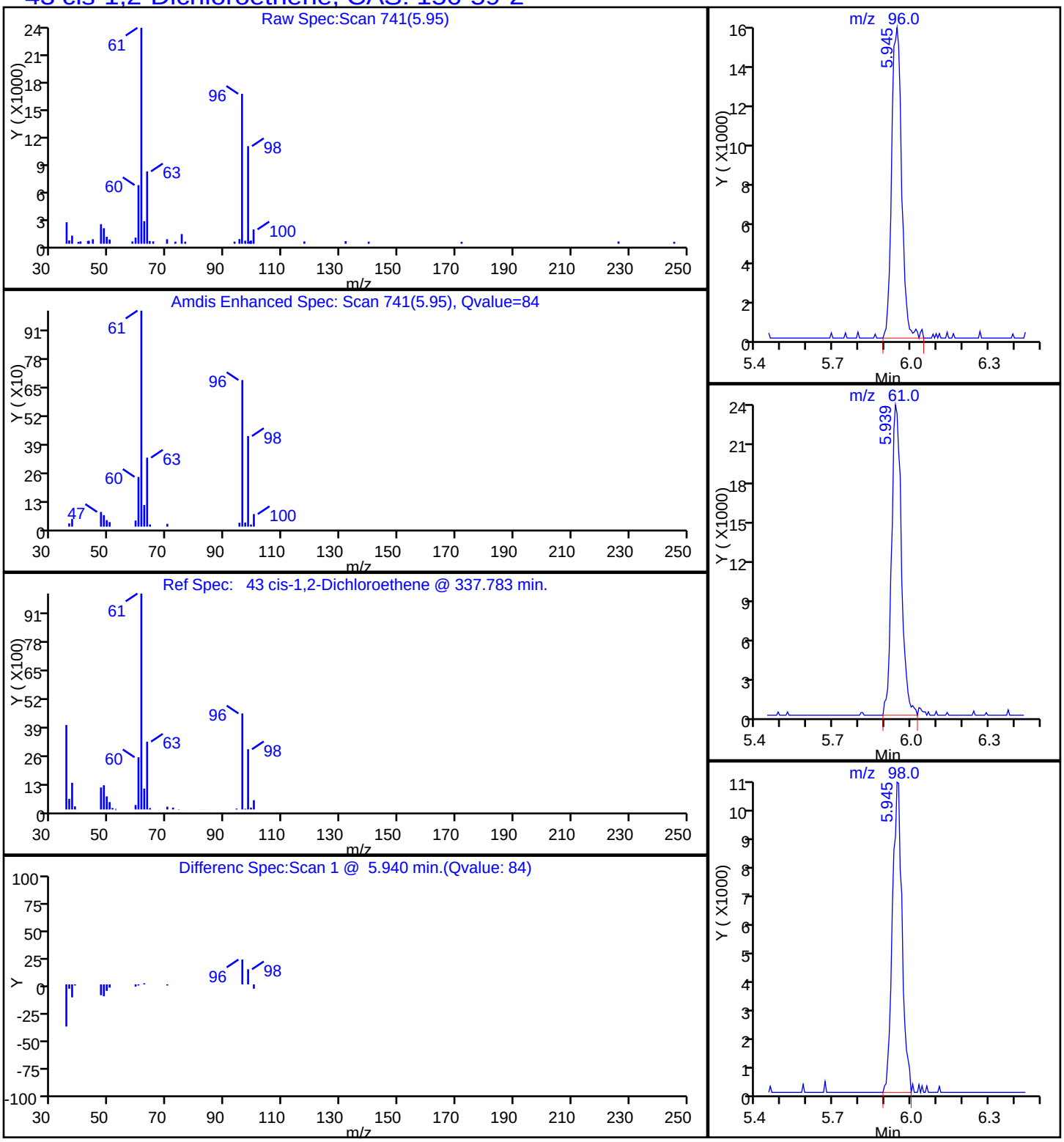
Report Date: 29-Sep-2015 08:28:44 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928017.D

Injection Date:	28-Sep-2015 18:00:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
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



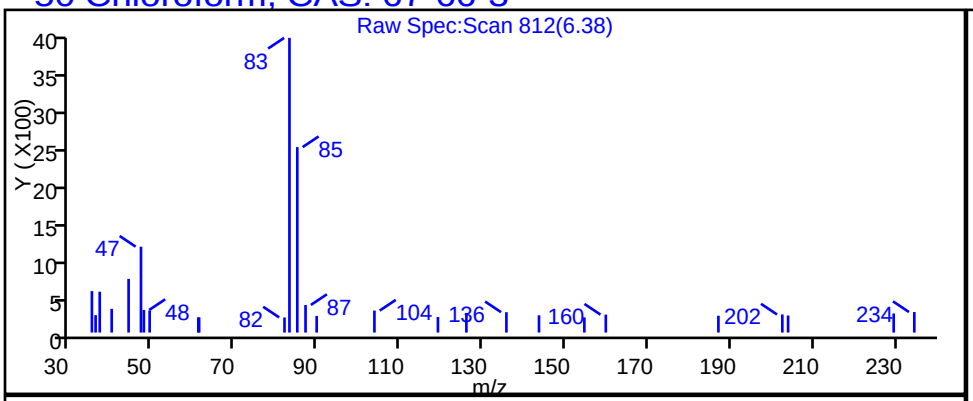
Report Date: 29-Sep-2015 08:28:44 Chrom Revision: 2.2 08-Sep-2015 13:41:46

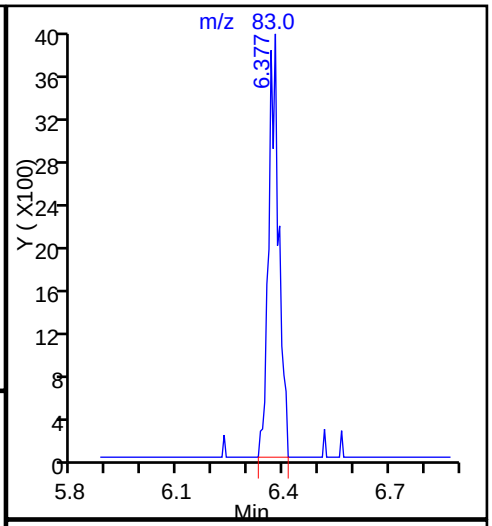
TestAmerica Pittsburgh

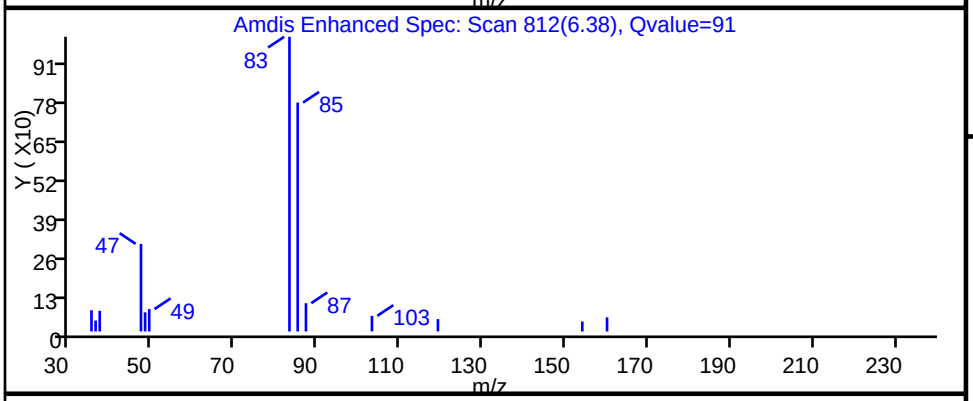
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928017.D

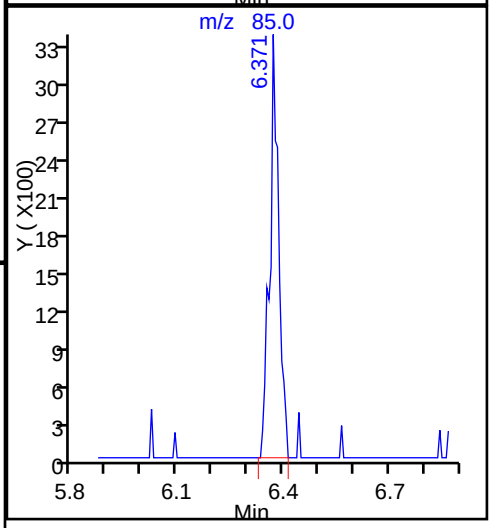
Injection Date:	28-Sep-2015 18:00:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

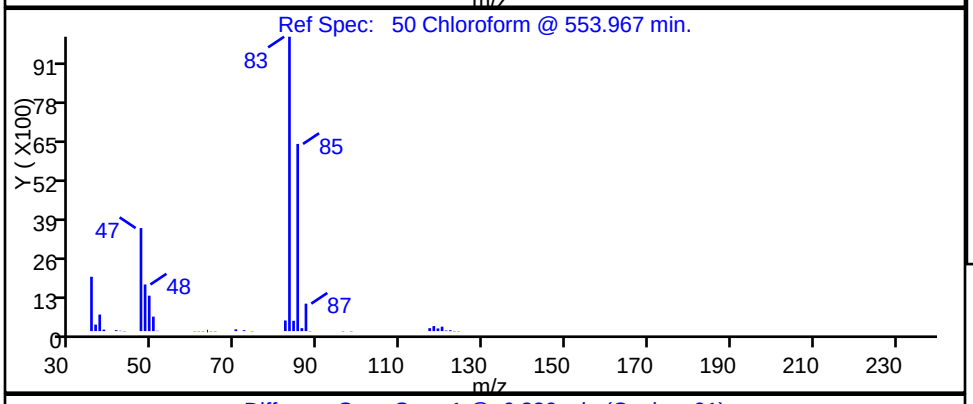
50 Chloroform, CAS: 67-66-3

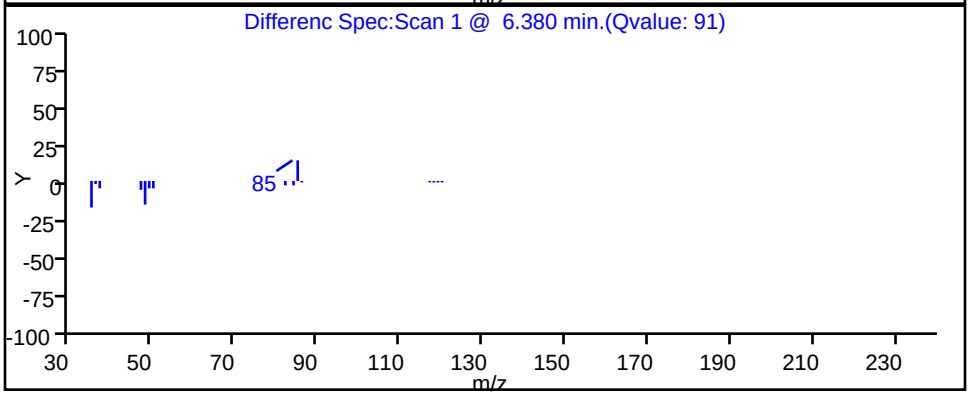












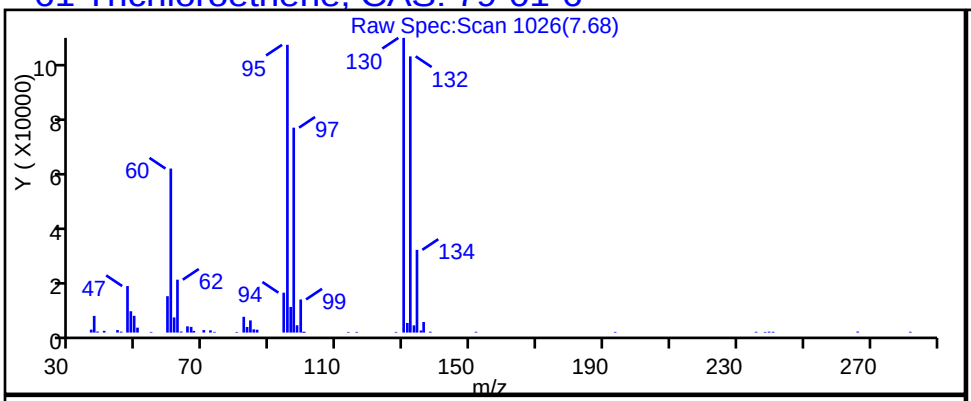
Report Date: 29-Sep-2015 08:28:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

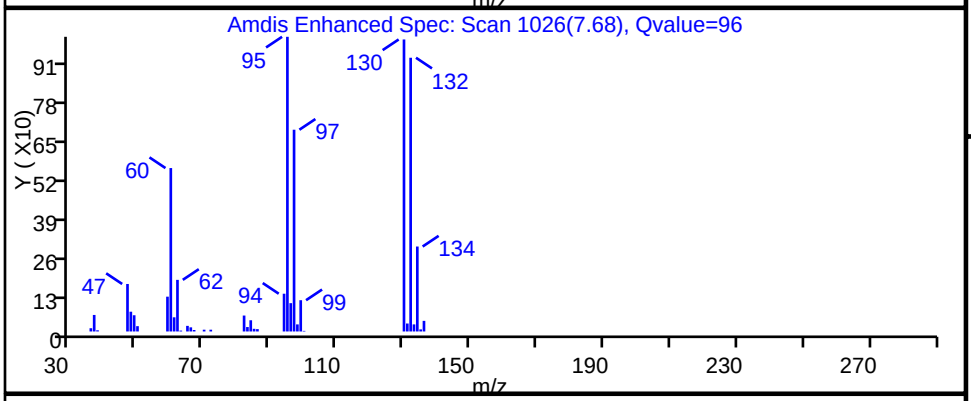
TestAmerica Pittsburgh

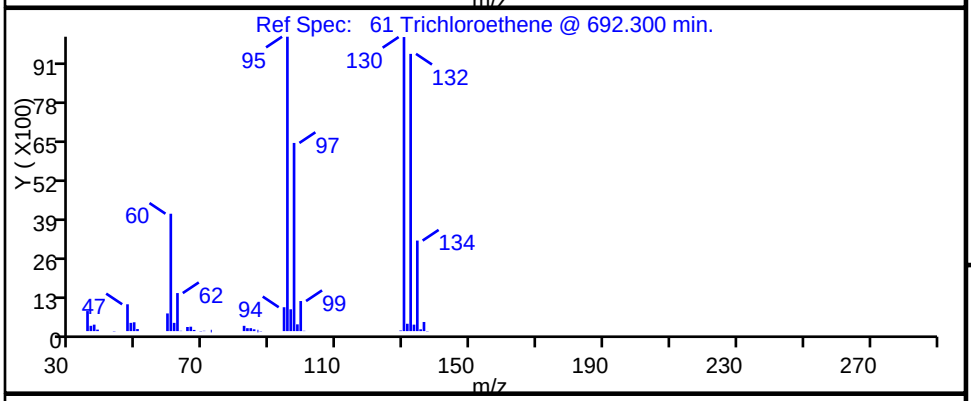
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928017.D

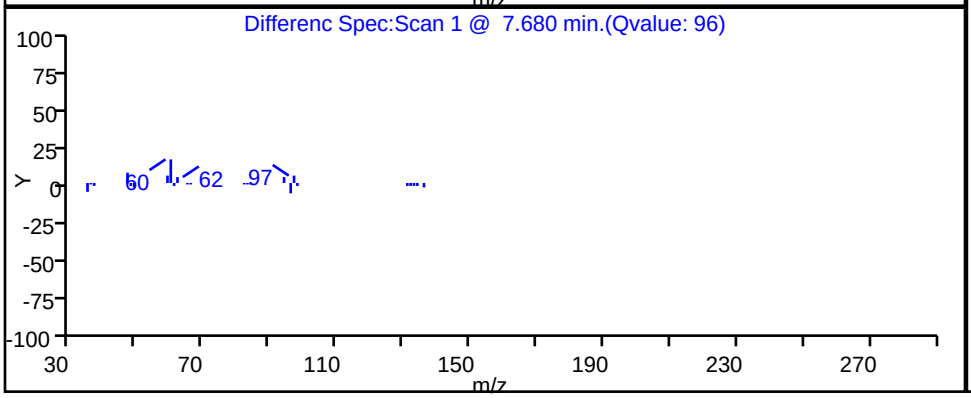
Injection Date:	28-Sep-2015 18:00:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

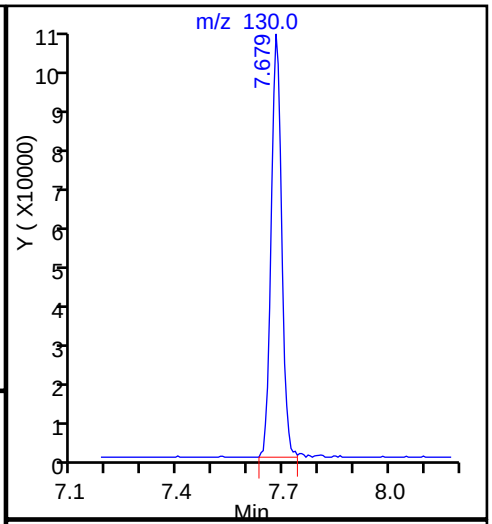
61 Trichloroethene, CAS: 79-01-6

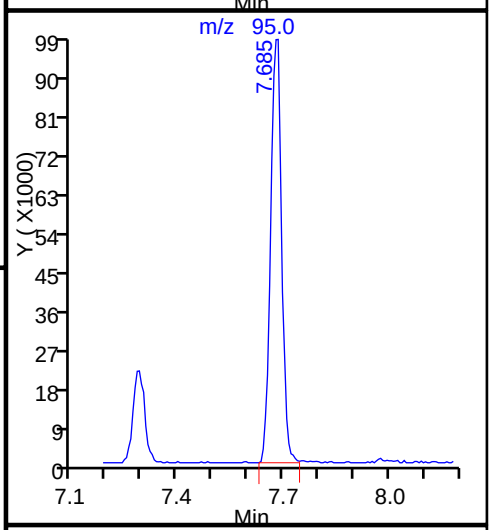


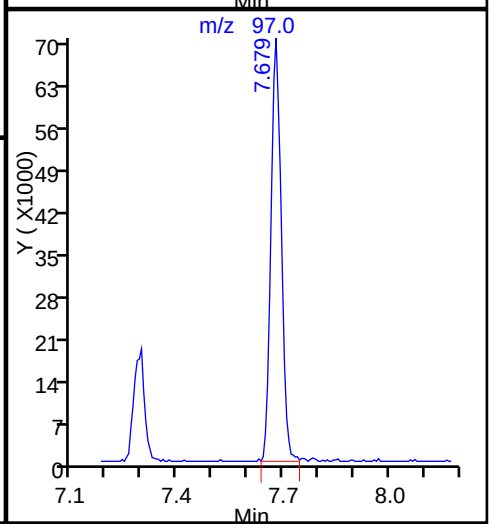












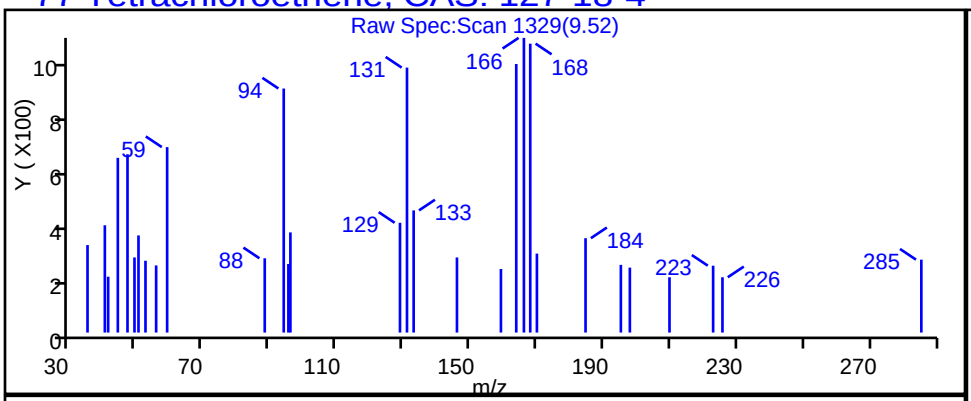
Report Date: 29-Sep-2015 08:28:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

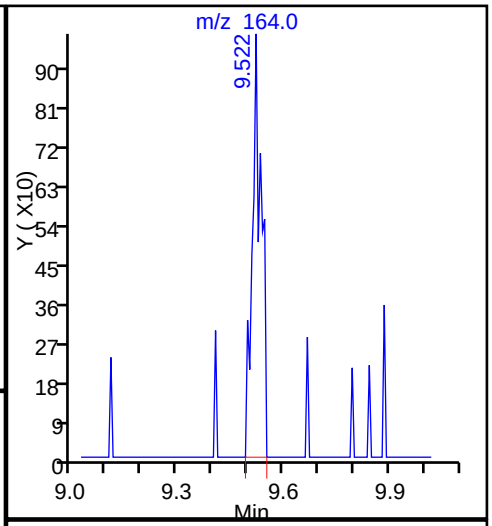
TestAmerica Pittsburgh

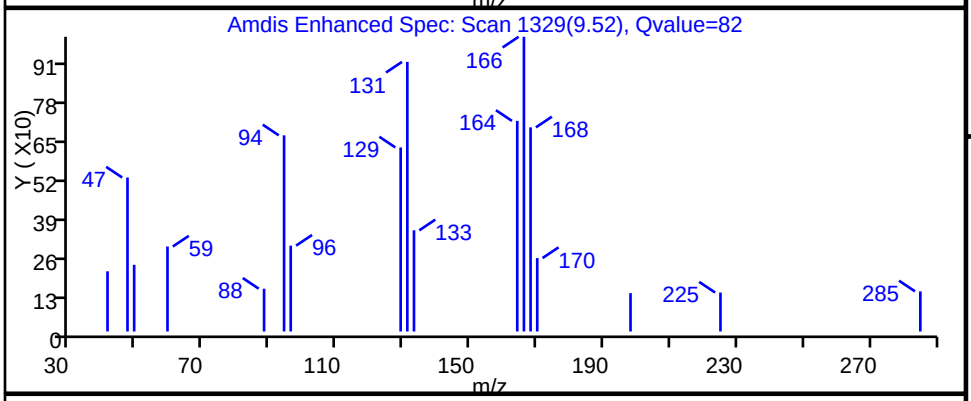
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928017.D

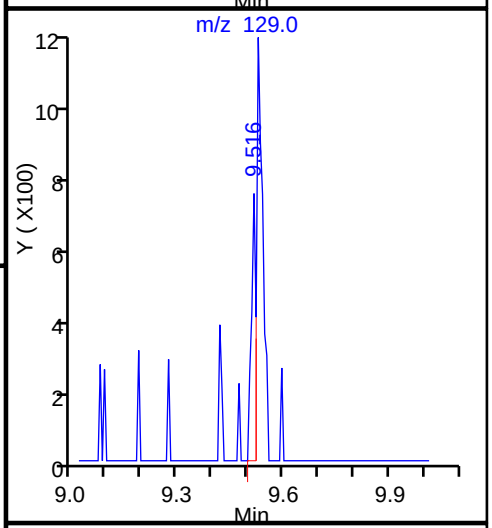
Injection Date:	28-Sep-2015 18:00:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

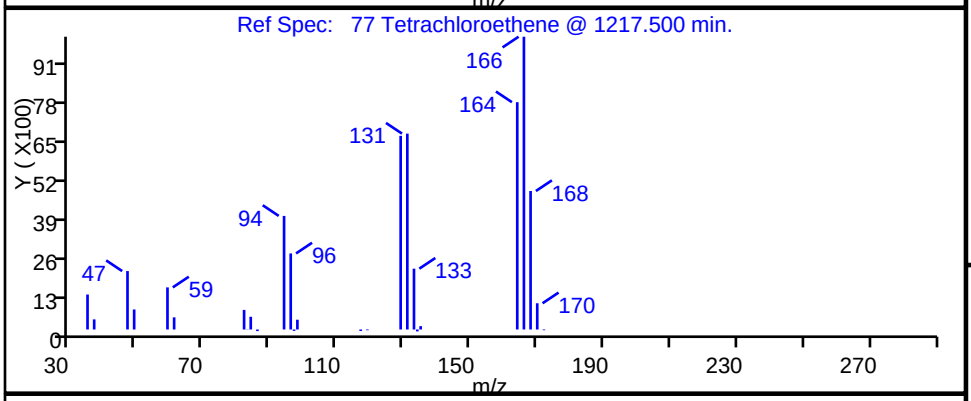
77 Tetrachloroethene, CAS: 127-18-4

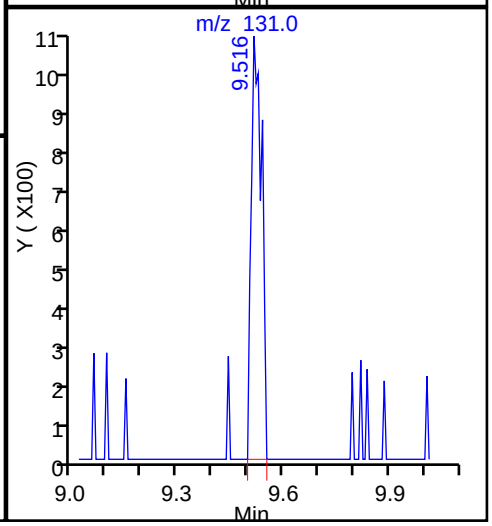


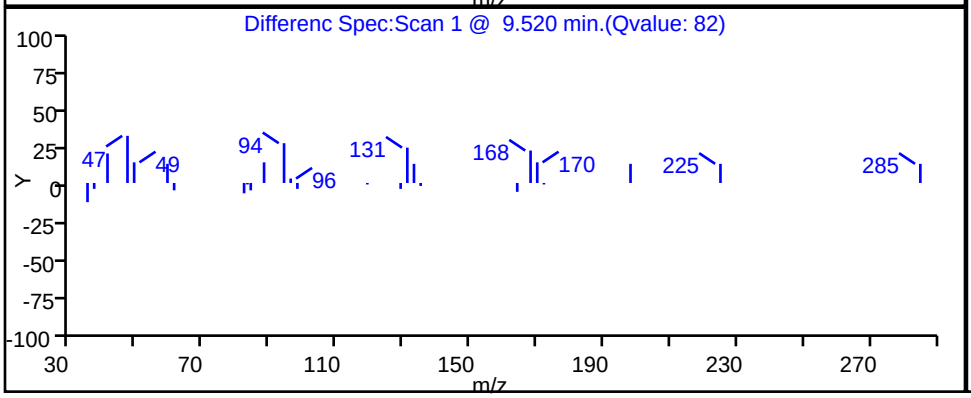












Manual Integration/User Assign Peak Report

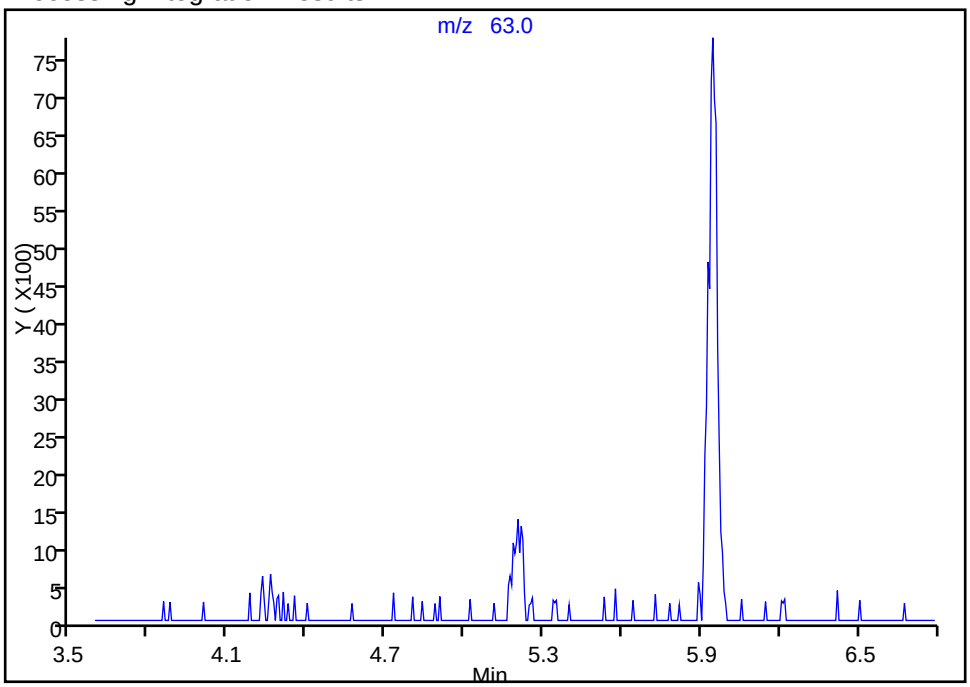
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928017.D				
Injection Date:	28-Sep-2015 18:00:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-2	Lab Sample ID:	180-47935-2		
Client ID:	HD-MW-131-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
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

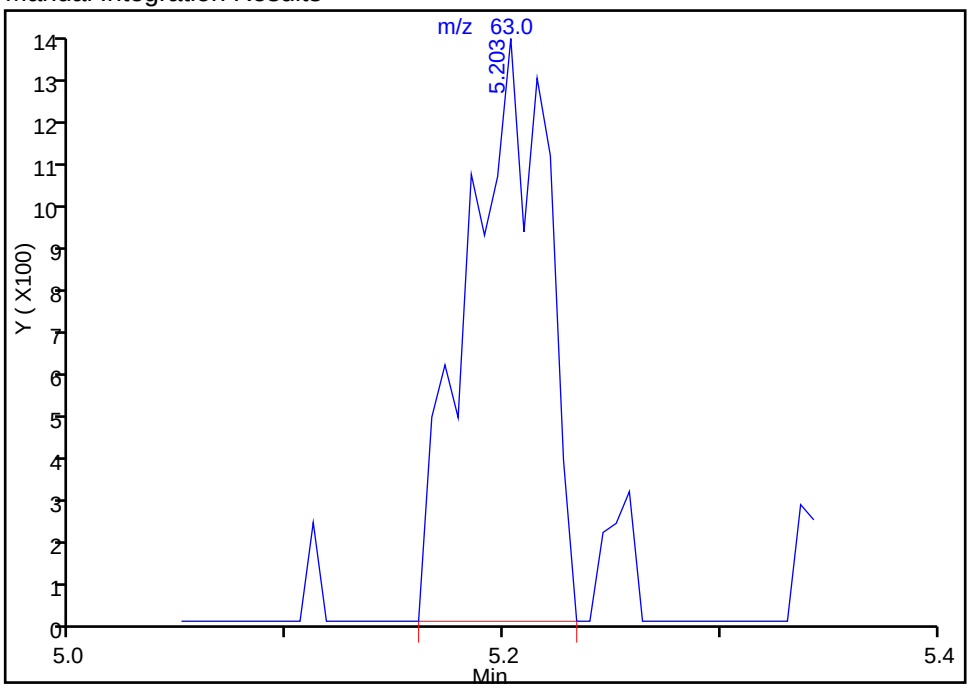
Not Detected
Expected RT: 5.19

Processing Integration Results



Manual Integration Results

RT: 5.20
Area: 3426
Amount: 0.613953
Amount Units: ng



Reviewer: fergusond, 29-Sep-2015 08:28:44
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-132-0/1-0 | Lab Sample ID: 180-47935-3

Matrix: Water | Lab File ID: 60928027.D

Analysis Method: 8260C | Date Collected: 09/18/2015 11:57

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 22:03

Soil Aliquot Vol: | Dilution Factor: 2.5

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	2.5	U	2.5	0.71
75-01-4	Vinyl chloride	2.5	U	2.5	0.57
74-83-9	Bromomethane	2.5	U	2.5	0.78
75-00-3	Chloroethane	2.5	U	2.5	0.54
75-35-4	1,1-Dichloroethene	15		2.5	0.74
67-64-1	Acetone	13	U	13	6.3
75-15-0	Carbon disulfide	2.5	U	2.5	0.53
75-09-2	Methylene Chloride	2.5	U	2.5	0.31
156-60-5	trans-1,2-Dichloroethene	2.8		2.5	0.42
1634-04-4	Methyl tert-butyl ether	2.5	U	2.5	0.46
75-34-3	1,1-Dichloroethane	11		2.5	0.29
156-59-2	*cis-1,2-Dichloroethene*	*390*	*E*	*2.5*	*0.59*
74-97-5	Bromochloromethane	2.5	U	2.5	0.45
78-93-3	2-Butanone (MEK)	13	U	13	1.4
67-66-3	Chloroform	2.5	U	2.5	0.43
71-55-6	1,1,1-Trichloroethane	2.5	U	2.5	0.72
56-23-5	Carbon tetrachloride	2.5	U	2.5	0.34
71-43-2	Benzene	2.5	U	2.5	0.26
107-06-2	1,2-Dichloroethane	2.5	U	2.5	0.53
79-01-6	*Trichloroethene*	*390*	*E*	*2.5*	*0.36*
78-87-5	1,2-Dichloropropane	2.5	U	2.5	0.24
75-27-4	Bromodichloromethane	2.5	U	2.5	0.33
10061-01-5	cis-1,3-Dichloropropene	2.5	U	2.5	0.47
108-10-1	4-Methyl-2-pentanone (MIBK)	13	U	13	1.3
108-88-3	Toluene	2.5	U	2.5	0.38
10061-02-6	trans-1,3-Dichloropropene	2.5	U	2.5	0.37
79-00-5	1,1,2-Trichloroethane	2.5	U	2.5	0.50
127-18-4	Tetrachloroethene	1.5	J	2.5	0.37
591-78-6	2-Hexanone	13	U ^c	13	0.40
124-48-1	Dibromochloromethane	2.5	U	2.5	0.34
106-93-4	1,2-Dibromoethane (EDB)	2.5	U	2.5	0.45
108-90-7	Chlorobenzene	2.5	U	2.5	0.34
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	2.5	0.69
100-41-4	Ethylbenzene	2.5	U	2.5	0.57
1330-20-7	Xylenes, Total	7.5	U	7.5	1.2
100-42-5	Styrene	2.5	U	2.5	0.24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-132-0/1-0 | Lab Sample ID: 180-47935-3

Matrix: Water | Lab File ID: 60928027.D

Analysis Method: 8260C | Date Collected: 09/18/2015 11:57

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 22:03

Soil Aliquot Vol: | Dilution Factor: 2.5

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	2.5	U	2.5	0.48
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.50
107-13-1	Acrylonitrile	50	U	50	1.4
123-91-1	1,4-Dioxane	500	U	500	86

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)	96		70-118
1868-53-7	Dibromofluoromethane (Surr)	103		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928027.D
Lims ID: 180-47935-D-3 Lab Sample ID: 180-47935-3
Client ID: HD-MW-132-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2015 22:03:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 2.5000
Sample Info: 180-47935-D-3, 2.5x
Misc. Info.: 180-0008724-027
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 08:43:50 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 08:43:50

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	4.242	4.241	0.001	88	158556	1000.0	
*	2 Fluorobenzene (IS)	96	7.283	7.283	0.000	98	522511	50.0	
*	3 Chlorobenzene-d5	119	10.404	10.398	0.006	91	114223	50.0	
*	4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	97	195302	50.0	
$	5 Dibromofluoromethane (Surr	113	6.560	6.547	0.013	93	124105	51.6	
$	6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.930	0.007	71	203914	52.5	
$	7 Toluene-d8 (Surr)	98	8.944	8.938	0.006	95	498987	55.4	
$	8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	84	191323	47.8	
	12 Chloromethane	50		1.765				ND	
	13 Vinyl chloride	62	1.900	1.905	-0.005	48	3720	1.11	
	15 Bromomethane	94		2.240				ND	
	16 Chloroethane	64		2.380				ND	
	22 1,1-Dichloroethene	96	3.347	3.341	0.006	94	79040	30.1	
	24 Acetone	43		3.426				ND	
	26 Carbon disulfide	76		3.633				ND	
	31 Methylene Chloride	84		4.126				ND	
	33 Acrylonitrile	53		4.503				ND	
	34 trans-1,2-Dichloroethene	96	4.576	4.558	0.018	90	16997	5.60	
	35 Methyl tert-butyl ether	73		4.564				ND	
	37 1,1-Dichloroethane	63	5.203	5.190	0.013	97	120280	22.1	
	43 cis-1,2-Dichloroethene	96	5.945	5.933	0.012	82	2553591	773.7	E
	44 2-Butanone (MEK)	43		5.951				ND	
	48 Chlorobromomethane	128		6.225				ND	
	50 Chloroform	83	6.389	6.371	0.018	40	3382	0.6270	
	51 1,1,1-Trichloroethane	97		6.535				ND	
	53 Carbon tetrachloride	117		6.717				ND	
	56 Benzene	78		6.942				ND	
	57 1,2-Dichloroethane	62	7.022	7.015	0.007	0	2225	0.4536	M
	61 Trichloroethene	130	7.679	7.679	0.000	93	1969177	775.4	E
	64 1,2-Dichloropropane	63		7.952				ND	
	65 1,4-Dioxane	88	8.032	8.038	-0.006	1	752	26.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.232				ND	
71 cis-1,3-Dichloropropene	75		8.676				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
73 Toluene	91		9.011				ND	
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	14	1256	0.5153	
77 Tetrachloroethene	164	9.528	9.528	0.000	92	6123	3.05	
79 2-Hexanone	43		9.656				ND	
81 Chlorodibromomethane	129		9.820				ND	
82 Ethylene Dibromide	107		9.936				ND	
84 Chlorobenzene	112		10.428				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.659				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

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

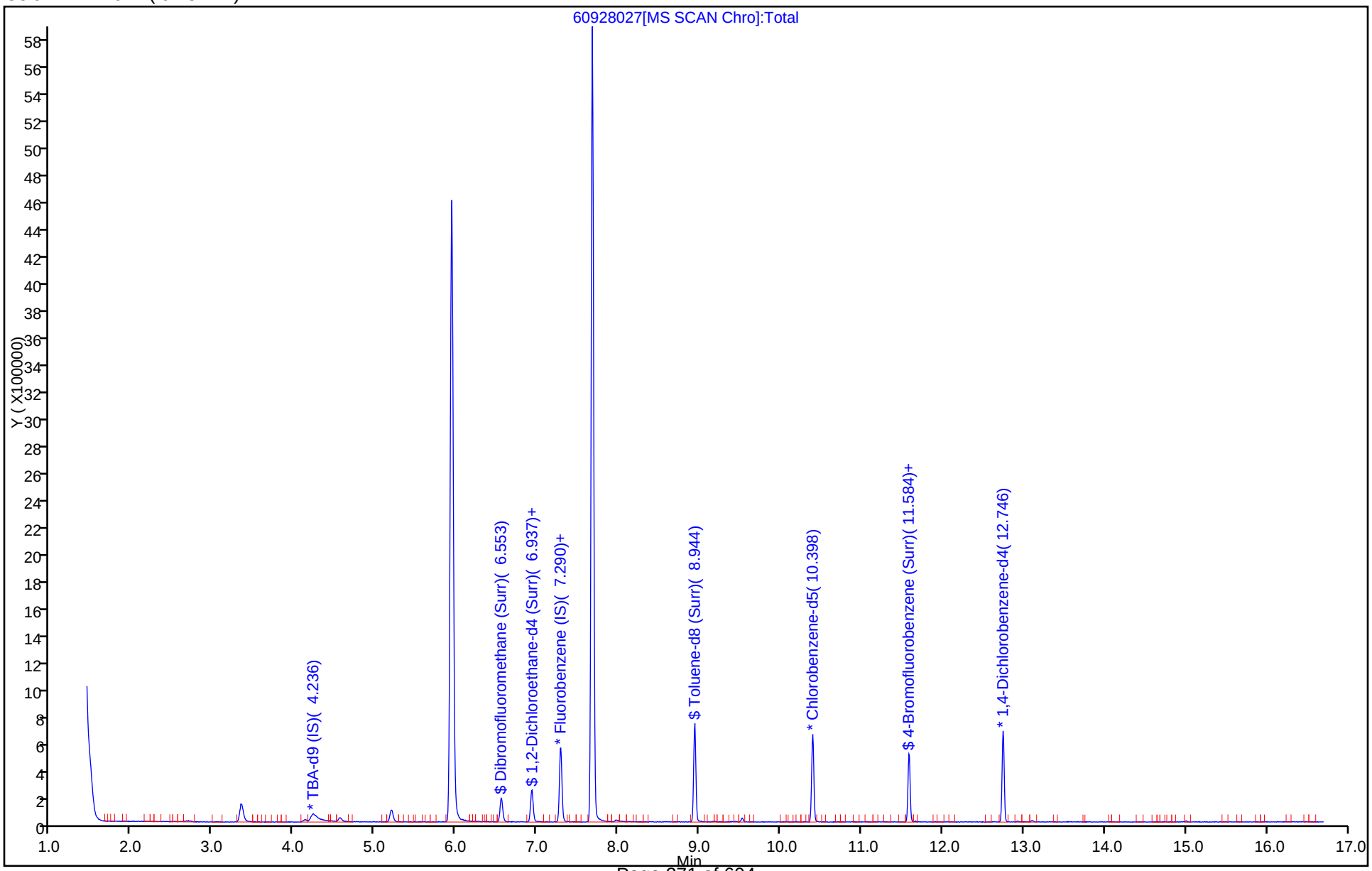
Report Date: 29-Sep-2015 08:43:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928027.D

Injection Date:	28-Sep-2015 22:03:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-D-3	Lab Sample ID:	180-47935-3	Worklist Smp#:	27
Client ID:	HD-MW-132-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	2.5000	ALS Bottle#:	27
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



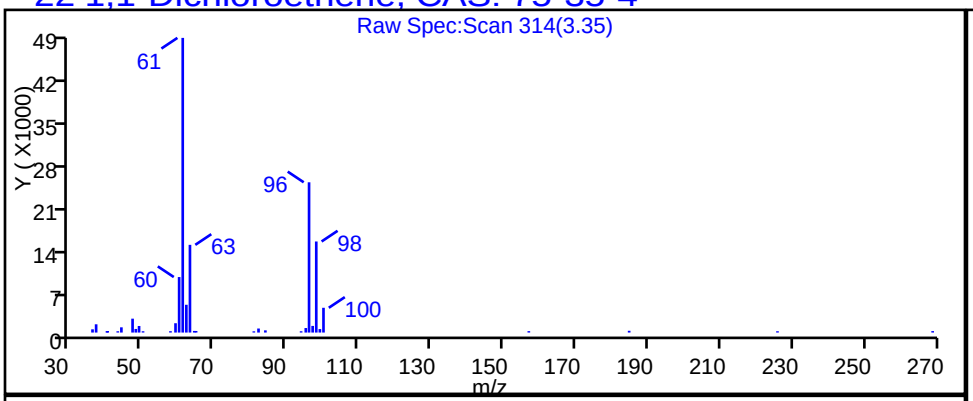
Report Date: 29-Sep-2015 08:43:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

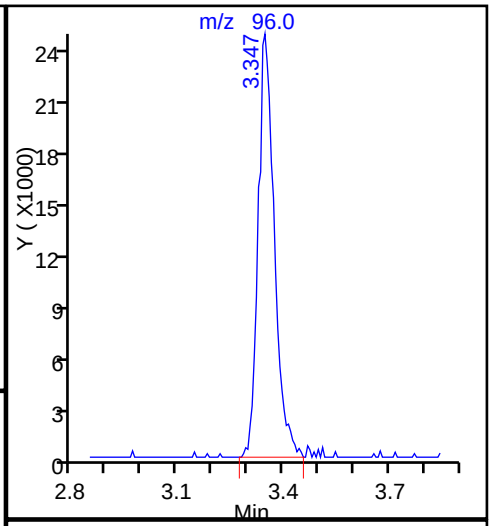
TestAmerica Pittsburgh

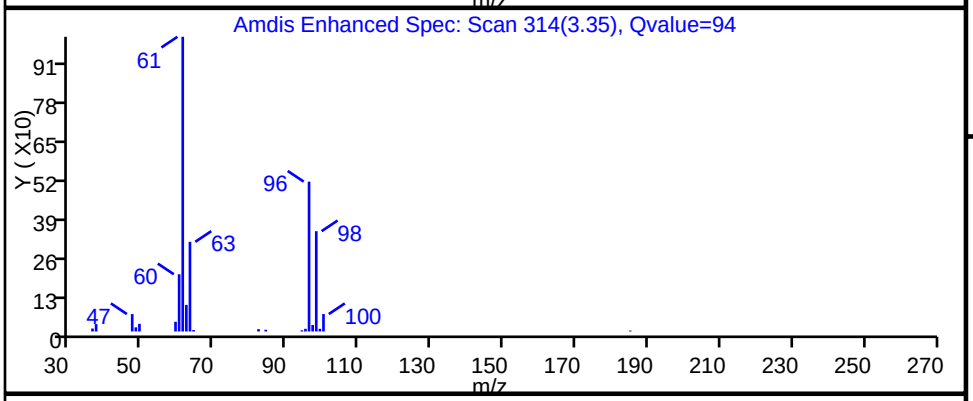
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928027.D

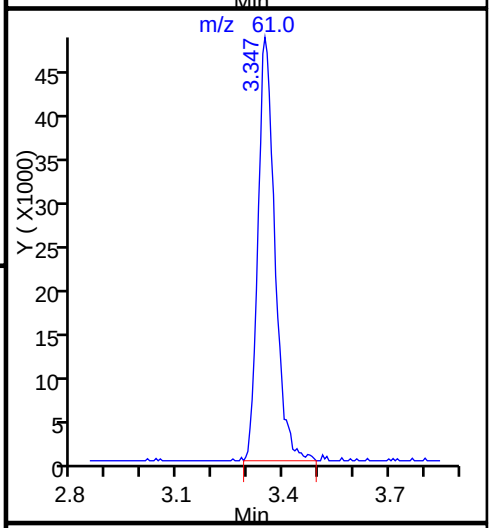
Injection Date:	28-Sep-2015 22:03:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-3	Lab Sample ID:	180-47935-3		
Client ID:	HD-MW-132-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

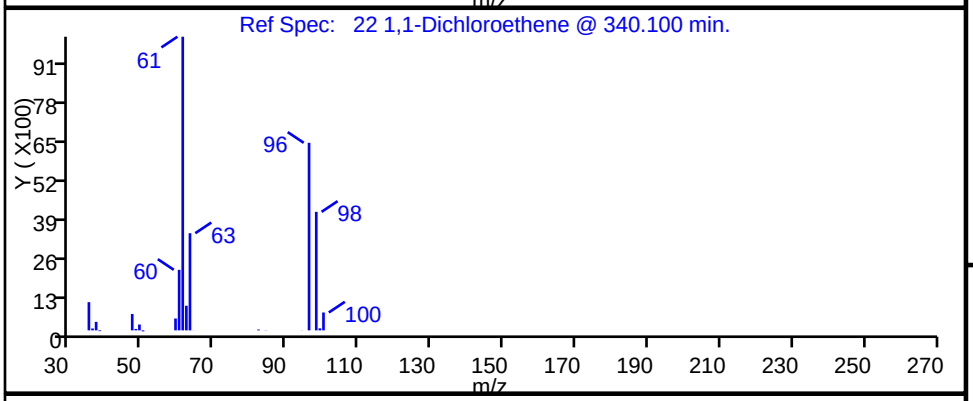
22 1,1-Dichloroethene, CAS: 75-35-4

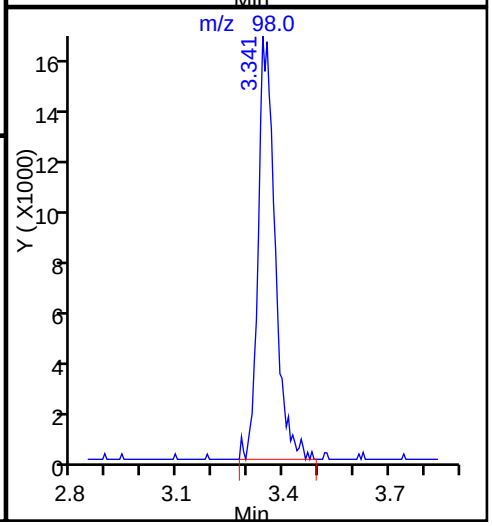


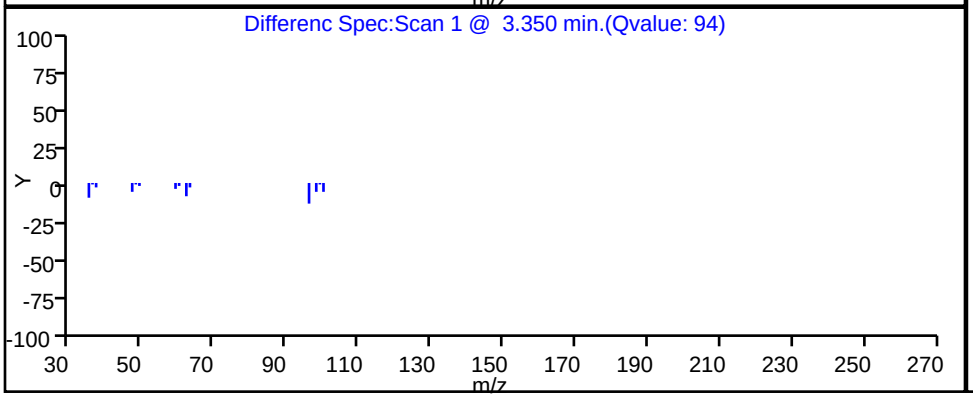










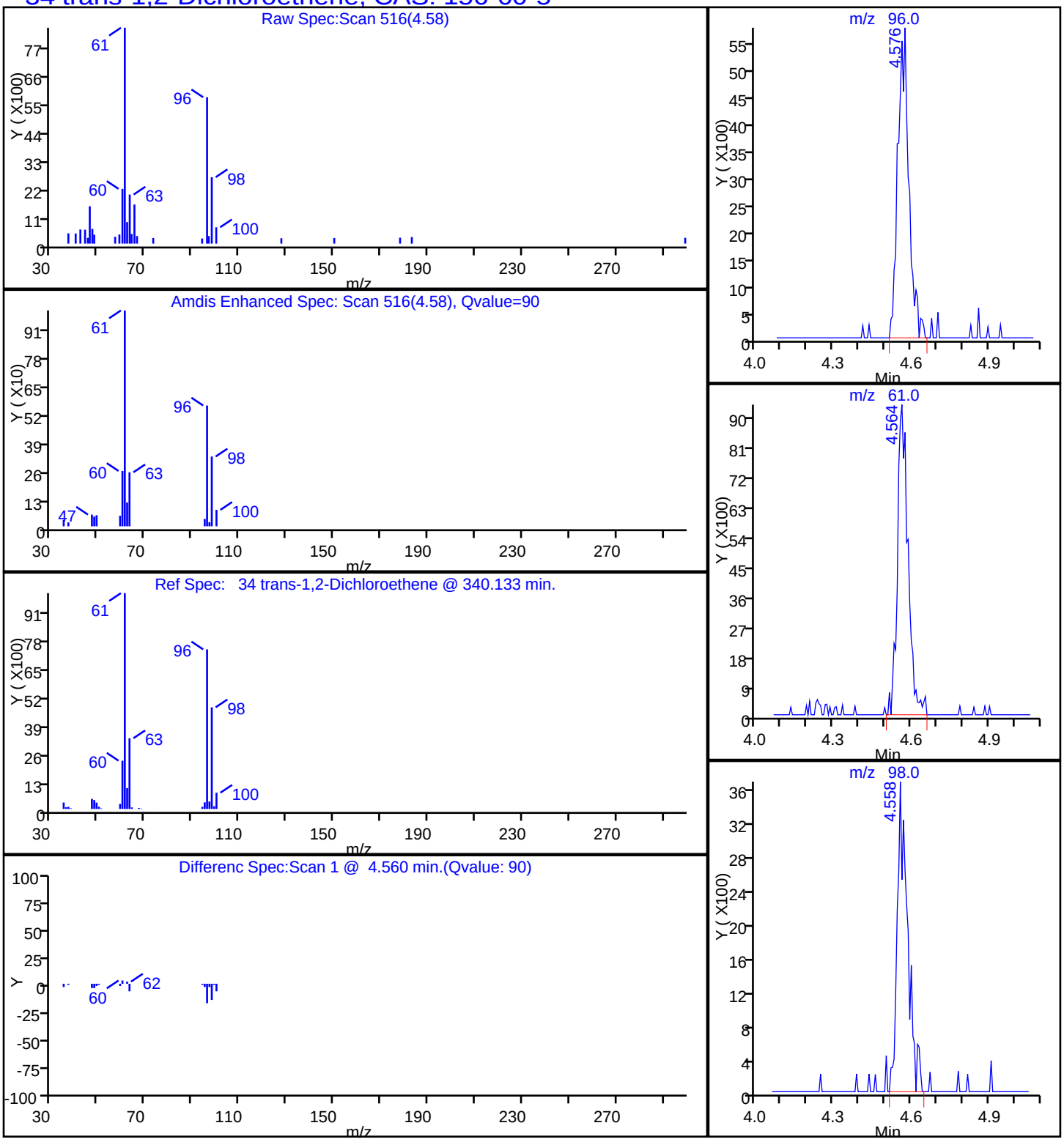


Report Date: 29-Sep-2015 08:43:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928027.D				
Injection Date:	28-Sep-2015 22:03:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-3	Lab Sample ID:	180-47935-3		
Client ID:	HD-MW-132-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
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

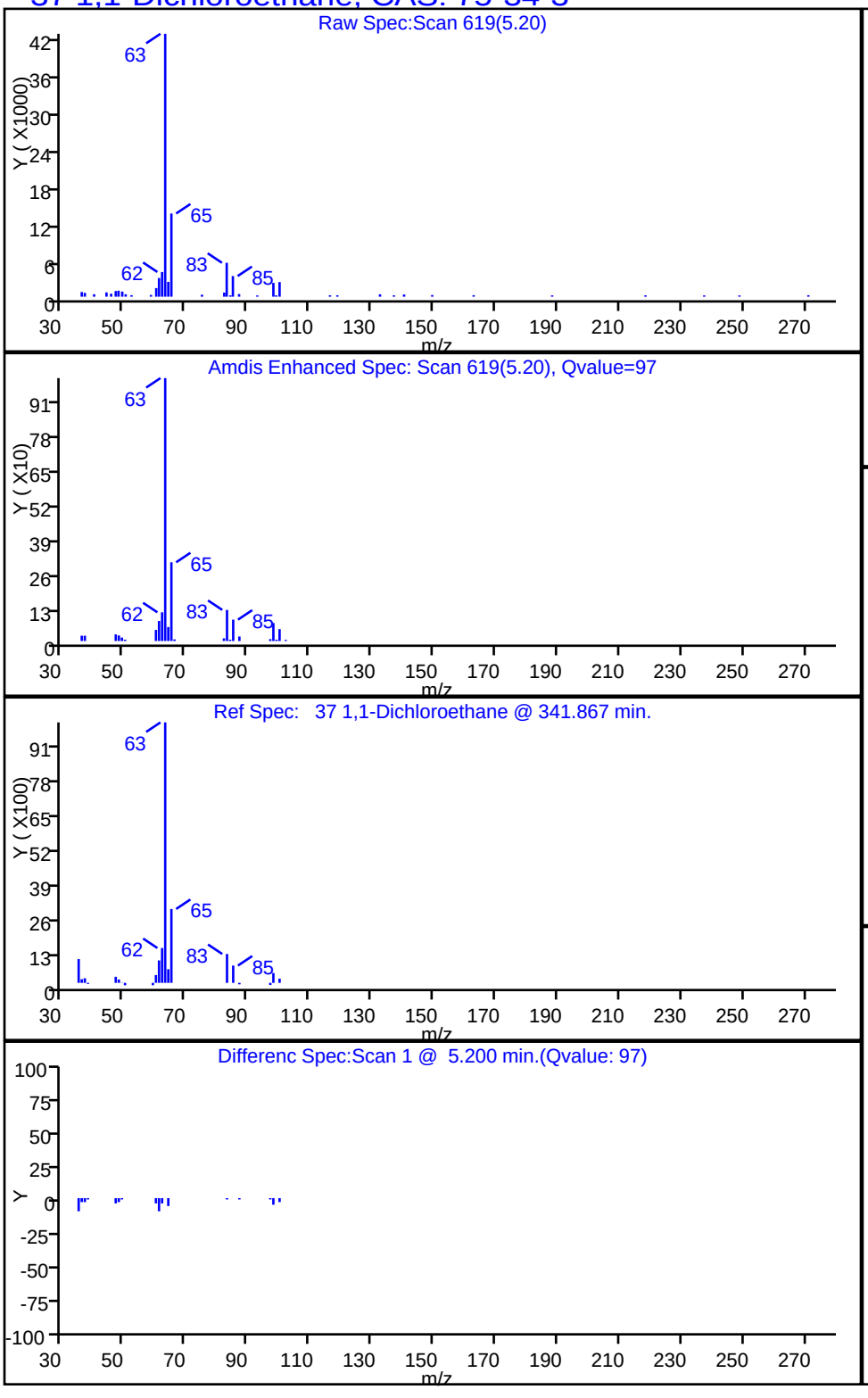


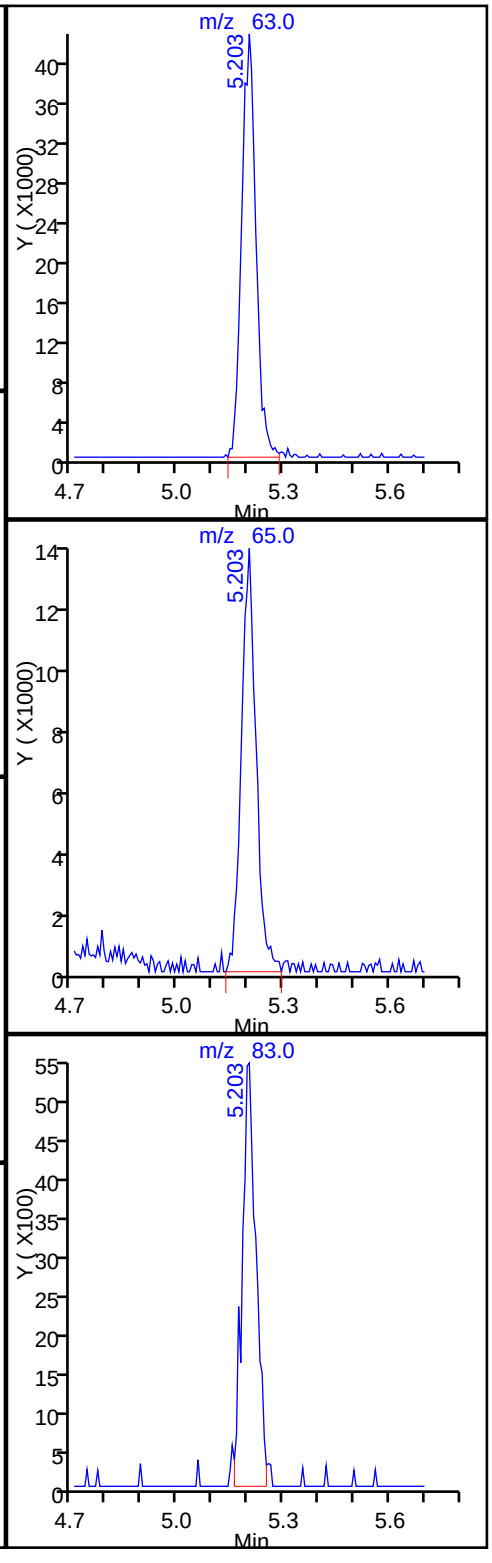
Report Date: 29-Sep-2015 08:43:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928027.D				
Injection Date:	28-Sep-2015 22:03:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-3	Lab Sample ID:	180-47935-3		
Client ID:	HD-MW-132-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
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



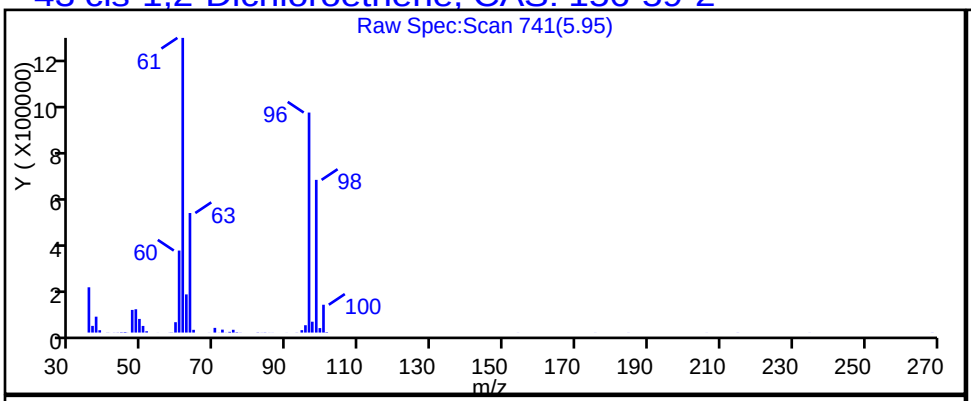


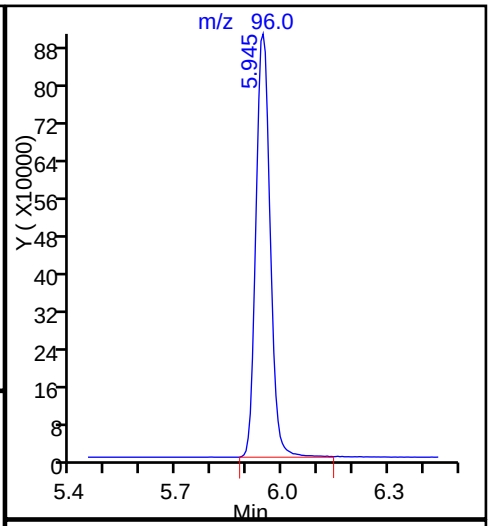
Report Date: 29-Sep-2015 08:43:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

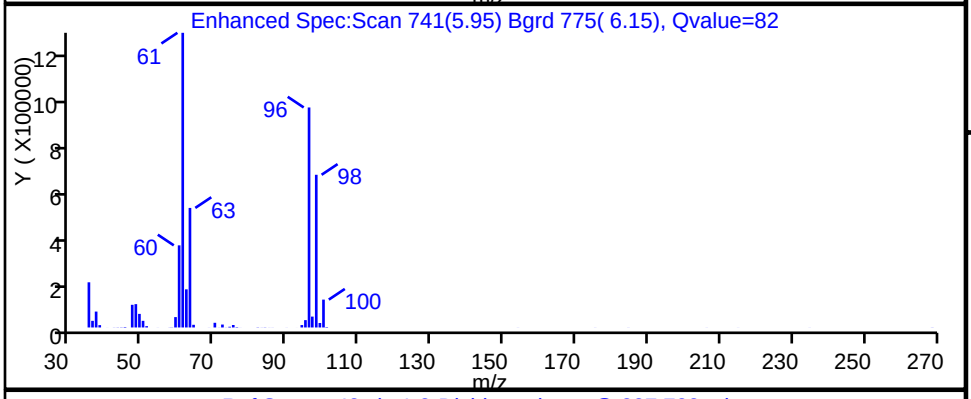
TestAmerica Pittsburgh

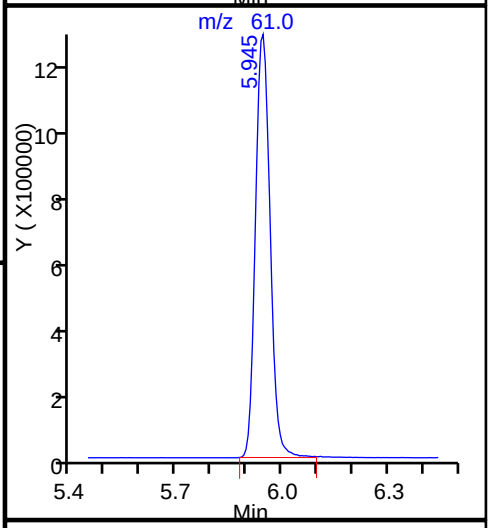
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928027.D				
Injection Date:	28-Sep-2015 22:03:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-3	Lab Sample ID:	180-47935-3		
Client ID:	HD-MW-132-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

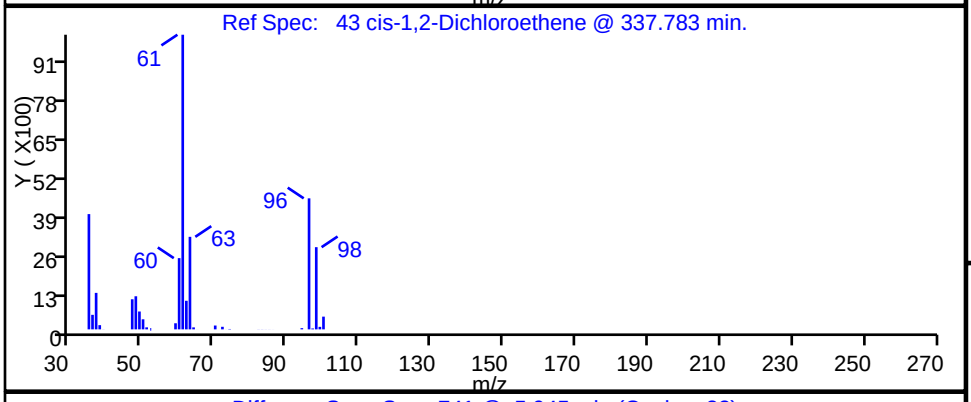
43 cis-1,2-Dichloroethene, CAS: 156-59-2

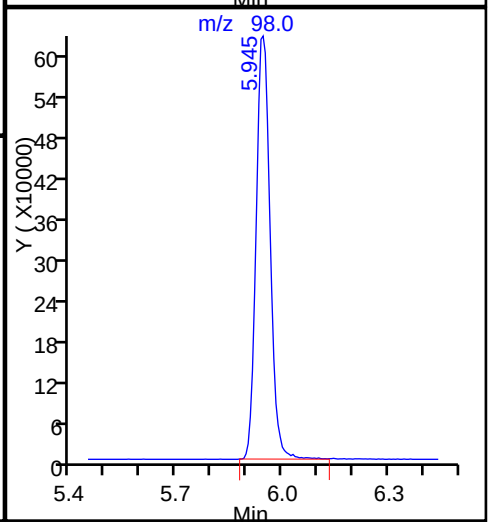


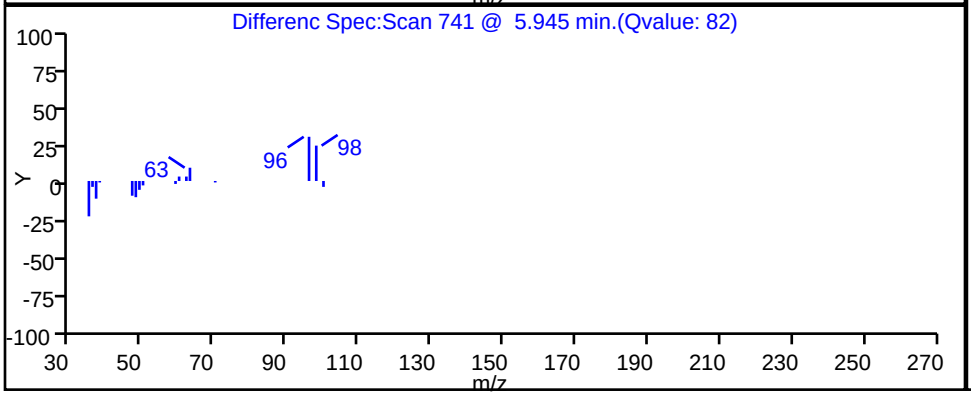










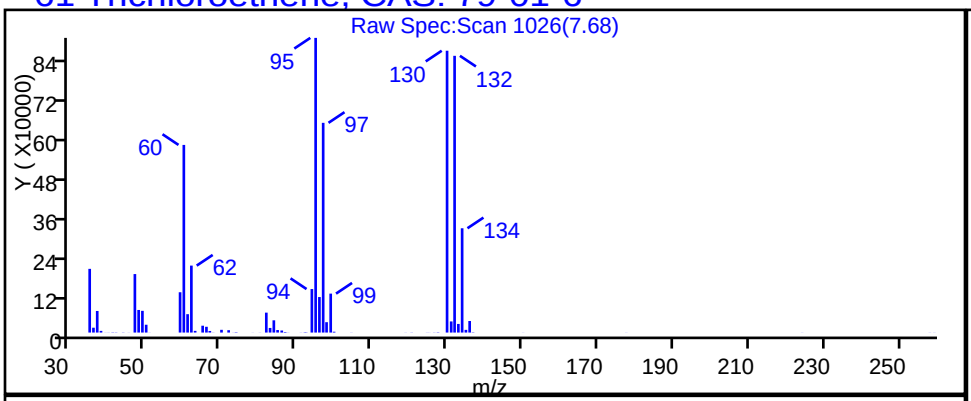


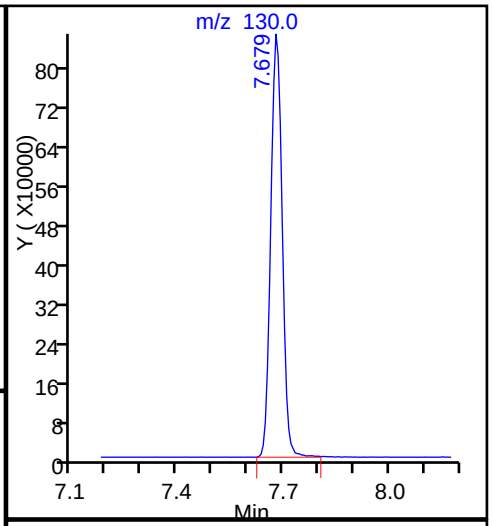
Report Date: 29-Sep-2015 08:43:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

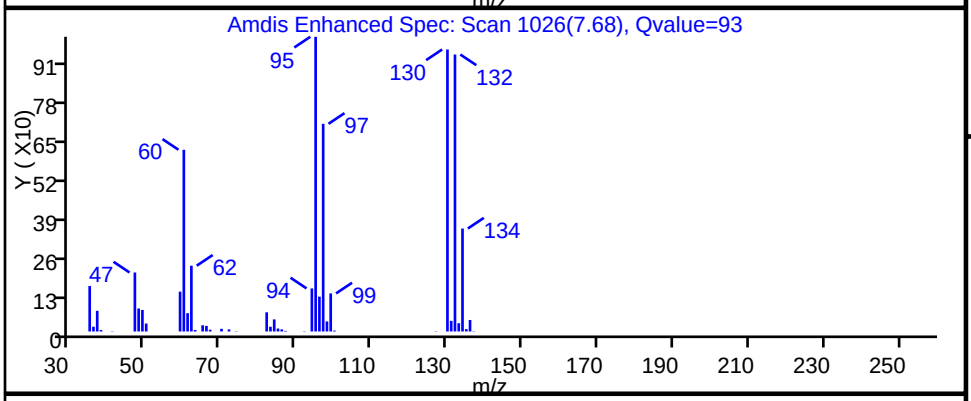
TestAmerica Pittsburgh

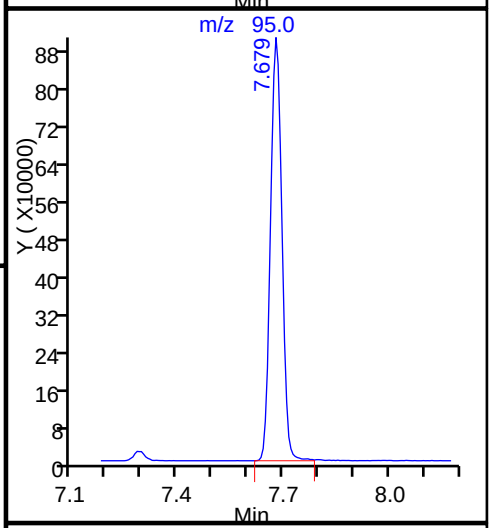
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928027.D		
Injection Date:	28-Sep-2015 22:03:30	Instrument ID:	CHHP6
Lims ID:	180-47935-D-3	Lab Sample ID:	180-47935-3
Client ID:	HD-MW-132-0/1-0		
Operator ID:	001562	ALS Bottle#:	27 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	2.5000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

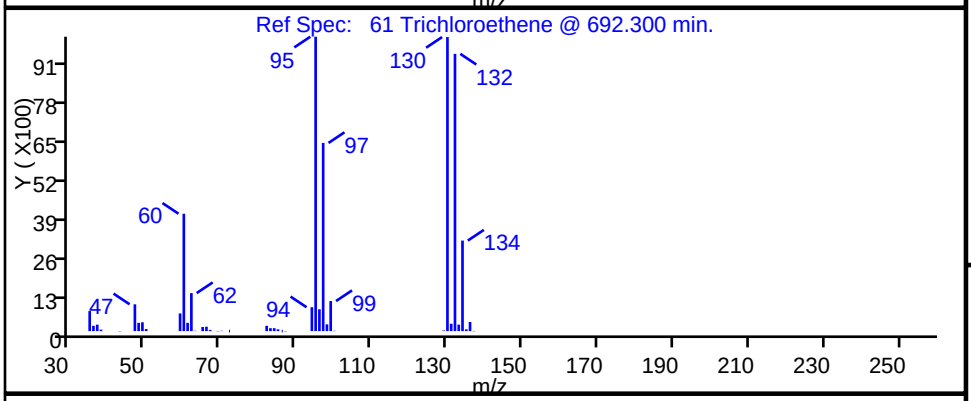
61 Trichloroethene, CAS: 79-01-6

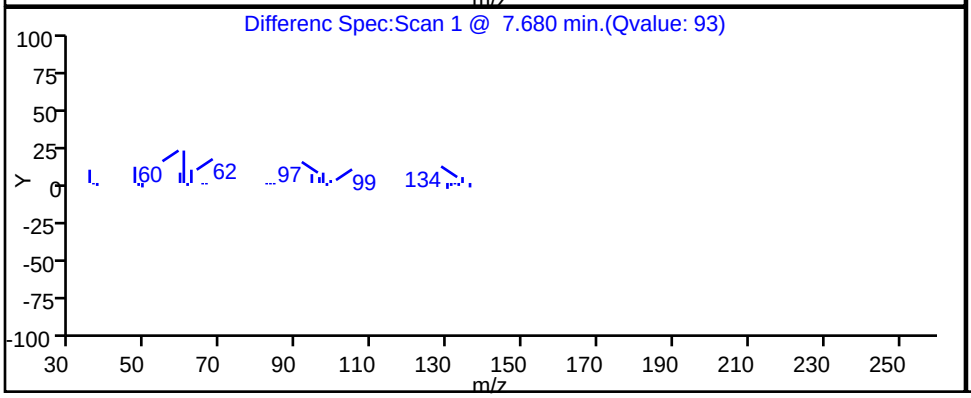


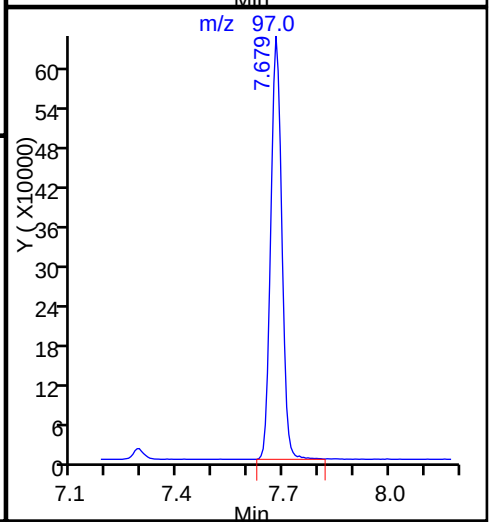












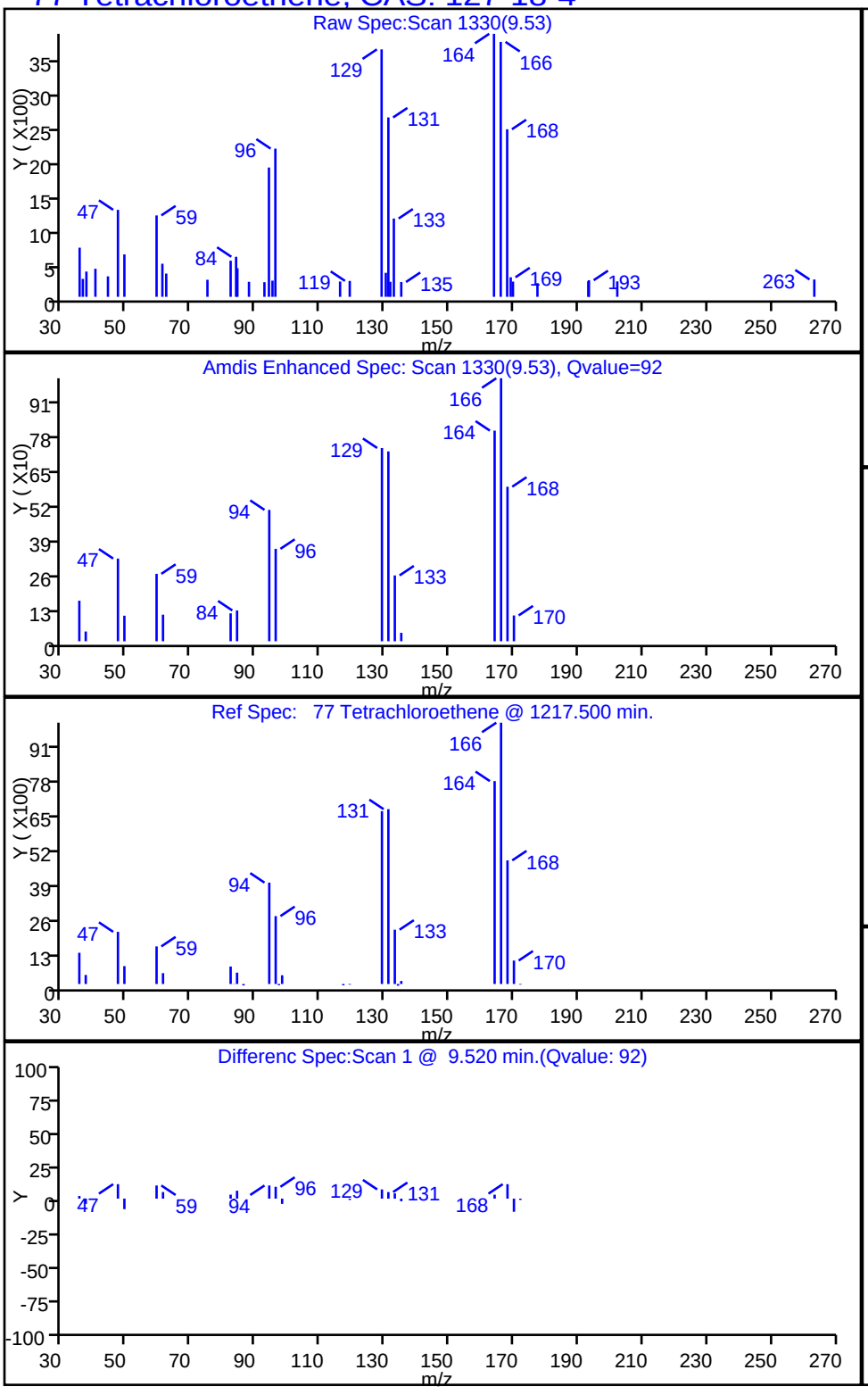
Report Date: 29-Sep-2015 08:43:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

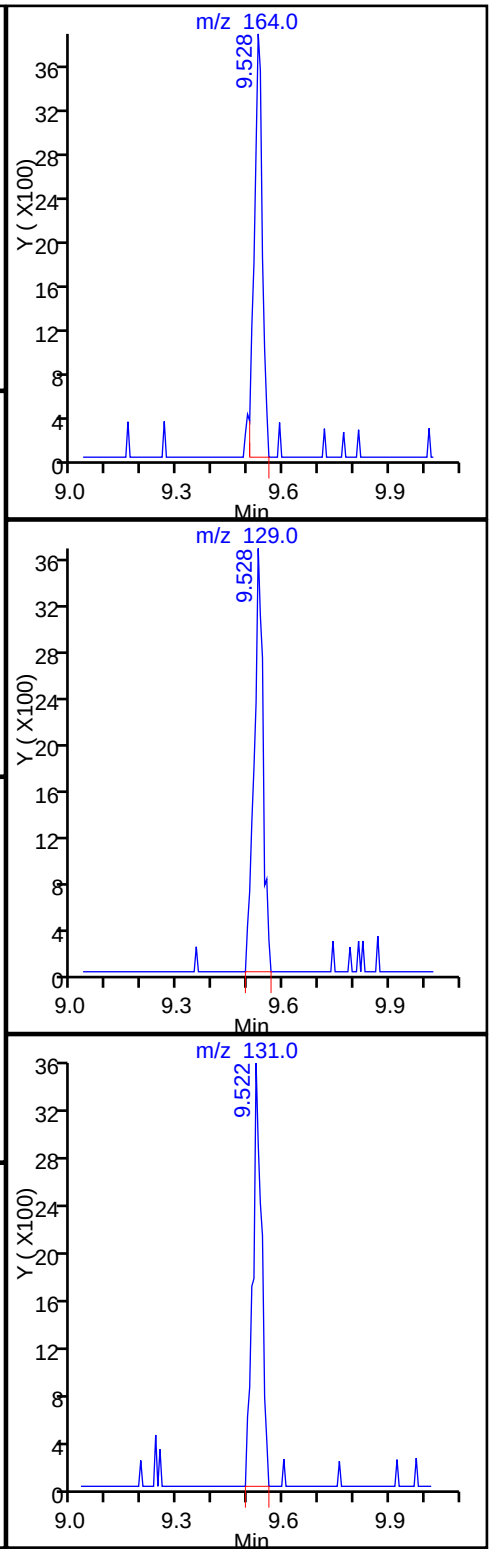
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928027.D

Injection Date:	28-Sep-2015 22:03:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-3	Lab Sample ID:	180-47935-3		
Client ID:	HD-MW-132-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

77 Tetrachloroethene, CAS: 127-18-4





Manual Integration/User Assign Peak Report

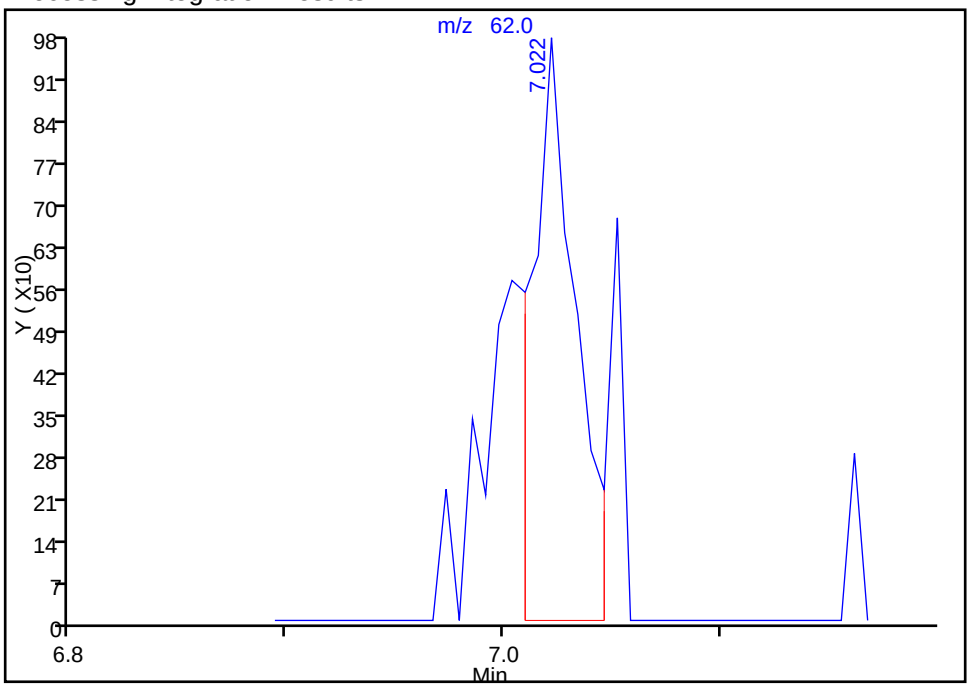
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928027.D				
Injection Date:	28-Sep-2015 22:03:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-D-3	Lab Sample ID:	180-47935-3		
Client ID:	HD-MW-132-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

57 1,2-Dichloroethane, CAS: 107-06-2

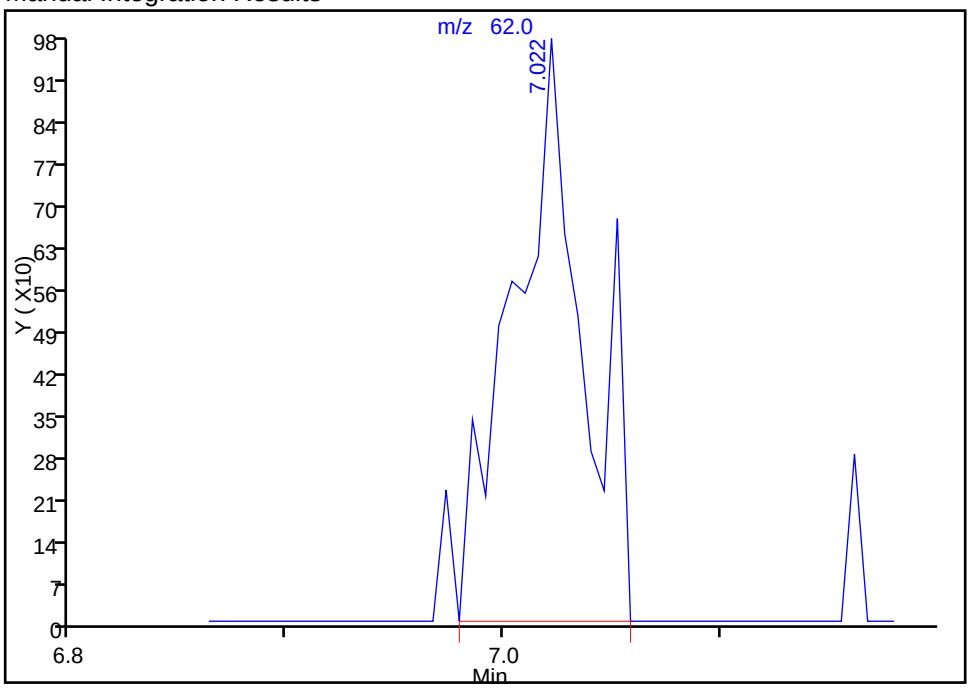
Processing Integration Results

RT: 7.02
Area: 1389
Amount: 0.283187
Amount Units: ng



Manual Integration Results

RT: 7.02
Area: 2225
Amount: 0.453629
Amount Units: ng



Reviewer: fergusond, 29-Sep-2015 08:43:50
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-132-0/1-0 DL | Lab Sample ID: 180-47935-3 DL

Matrix: Water | Lab File ID: 60928018.D

Analysis Method: 8260C | Date Collected: 09/18/2015 11:57

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 18:24

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.: 155089 | 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	18	J	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	12	J	25	2.9
156-59-2	cis-1,2-Dichloroethene	440		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	25	U	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	470		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	25	U	25	3.7
591-78-6	2-Hexanone	130	U ^c	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.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-132-0/1-0 DL | Lab Sample ID: 180-47935-3 DL

Matrix: Water | Lab File ID: 60928018.D

Analysis Method: 8260C | Date Collected: 09/18/2015 11:57

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 18:24

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.: 155089 | 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)	102		64-135
2037-26-5	Toluene-d8 (Surr)	110		71-118
460-00-4	4-Bromofluorobenzene (Surr)	99		70-118
1868-53-7	Dibromofluoromethane (Surr)	96		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928018.D
Lims ID: 180-47935-E-3 Lab Sample ID: 180-47935-3
Client ID: HD-MW-132-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2015 18:24:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 25.0000
Sample Info: 180-47935-E-3, 25x
Misc. Info.: 180-0008724-018
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 08:29:55 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 08:29:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.239	4.241	-0.003	88	194018	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.283	0.003	97	538875	50.0	
* 3 Chlorobenzene-d5	119	10.401	10.398	0.003	91	115718	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.746	0.003	97	204104	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.547	0.009	93	118635	47.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.930	0.003	70	204446	51.1	
$ 7 Toluene-d8 (Surr)	98	8.941	8.938	0.003	95	503685	55.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.584	0.003	83	200302	49.4	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.240				ND	
16 Chloroethane	64		2.380				ND	
22 1,1-Dichloroethene	96	3.350	3.341	0.009	92	9992	3.68	
24 Acetone	43		3.426				ND	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.126				ND	
33 Acrylonitrile	53		4.503				ND	
34 trans-1,2-Dichloroethene	96	4.567	4.558	0.009	69	2256	0.7207	
35 Methyl tert-butyl ether	73		4.564				ND	
37 1,1-Dichloroethane	63	5.200	5.190	0.010	80	13406	2.39	
43 cis-1,2-Dichloroethene	96	5.942	5.933	0.009	86	300319	88.2	
44 2-Butanone (MEK)	43		5.951				ND	
48 Chlorobromomethane	128		6.225				ND	
50 Chloroform	83		6.371				ND	
51 1,1,1-Trichloroethane	97		6.535				ND	
53 Carbon tetrachloride	117		6.717				ND	
56 Benzene	78		6.942				ND	
57 1,2-Dichloroethane	62		7.015				ND	
61 Trichloroethene	130	7.676	7.679	-0.003	95	243888	93.1	
64 1,2-Dichloropropane	63		7.952				ND	
65 1,4-Dioxane	88		8.038				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.232				ND	
71 cis-1,3-Dichloropropene	75		8.676				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
73 Toluene	91		9.011				ND	
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97		9.449				ND	
77 Tetrachloroethene	164	9.531	9.528	0.003	1	724	0.3555	
79 2-Hexanone	43		9.656				ND	
81 Chlorodibromomethane	129		9.820				ND	
82 Ethylene Dibromide	107		9.936				ND	
84 Chlorobenzene	112		10.428				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.659				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				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

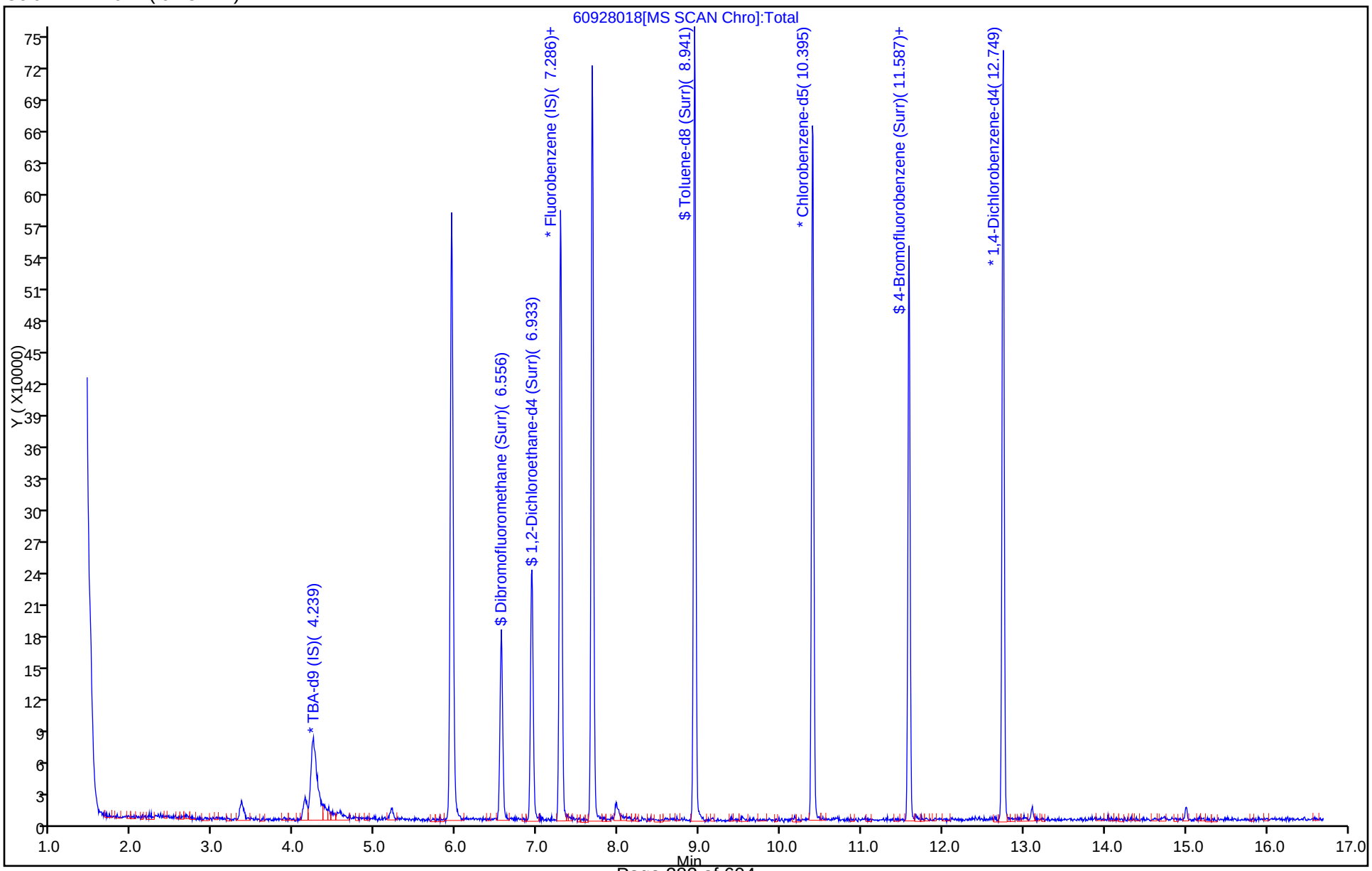
Report Date: 29-Sep-2015 08:29:55 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928018.D

Injection Date:	28-Sep-2015 18:24:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-E-3	Lab Sample ID:	180-47935-3	Worklist Smp#:	18
Client ID:	HD-MW-132-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	25.0000	ALS Bottle#:	18
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

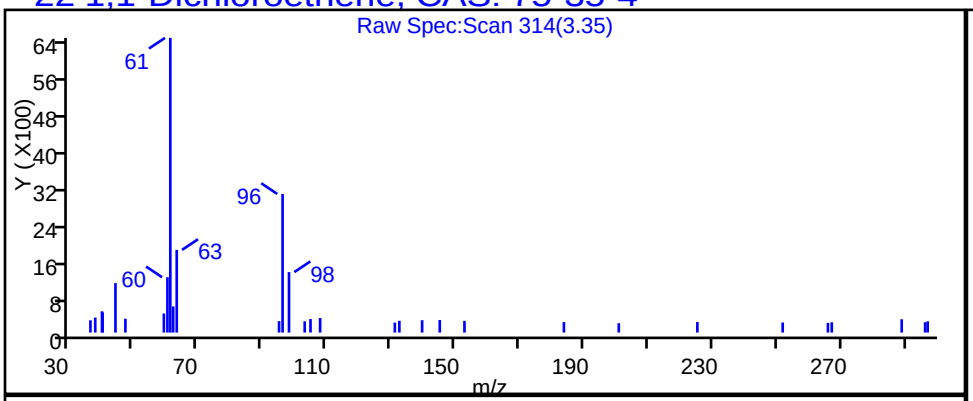
Column: DB-624 (0.18 mm)

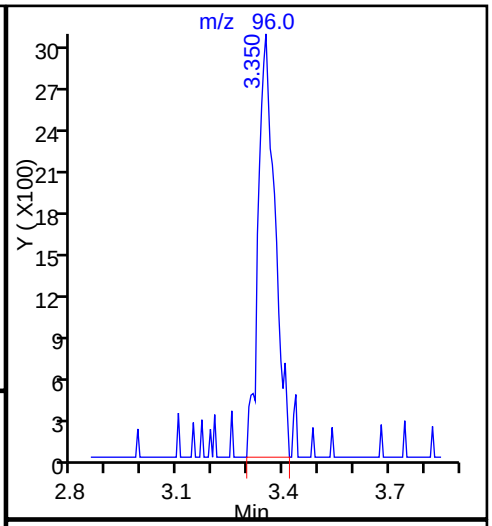


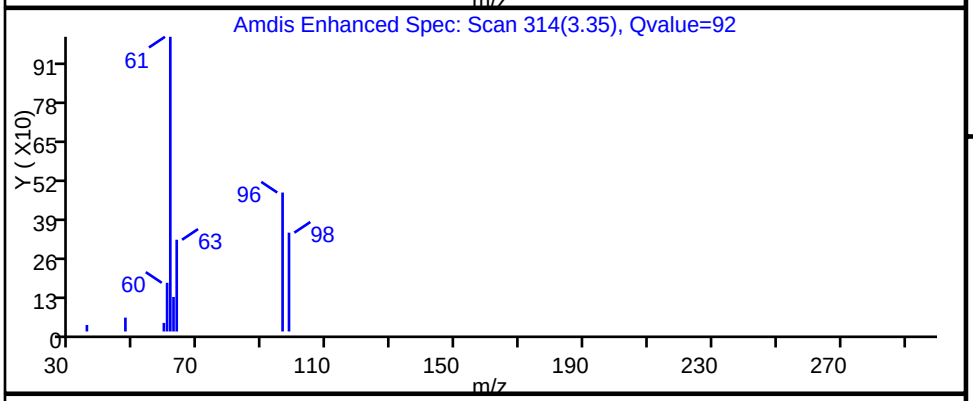
TestAmerica Pittsburgh

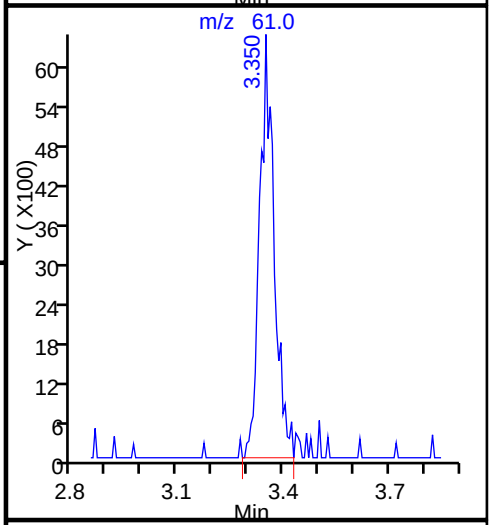
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928018.D		
Injection Date:	28-Sep-2015 18:24:30	Instrument ID:	CHHP6
Lims ID:	180-47935-E-3	Lab Sample ID:	180-47935-3
Client ID:	HD-MW-132-0/1-0		
Operator ID:	001562	ALS Bottle#:	18 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	25.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

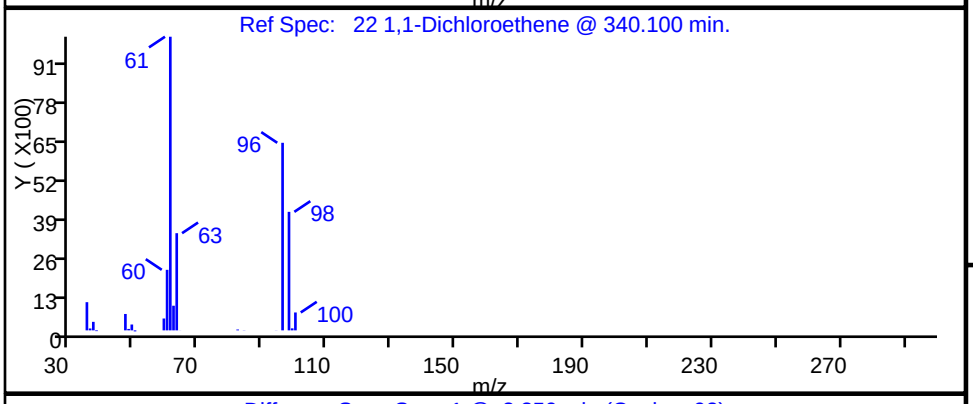
22 1,1-Dichloroethene, CAS: 75-35-4

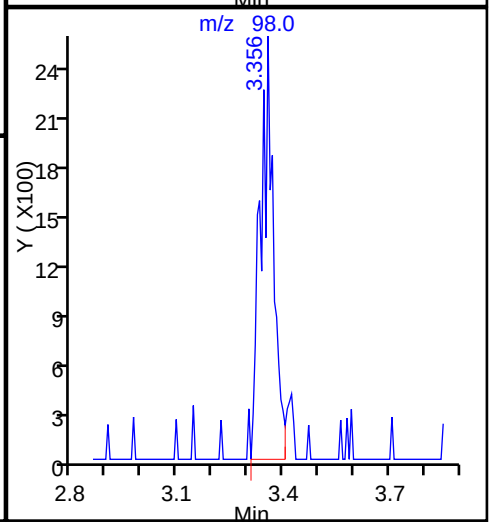


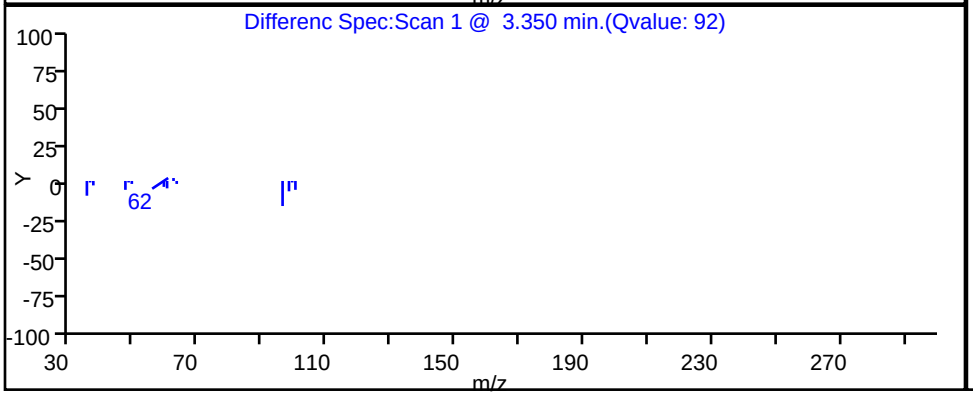












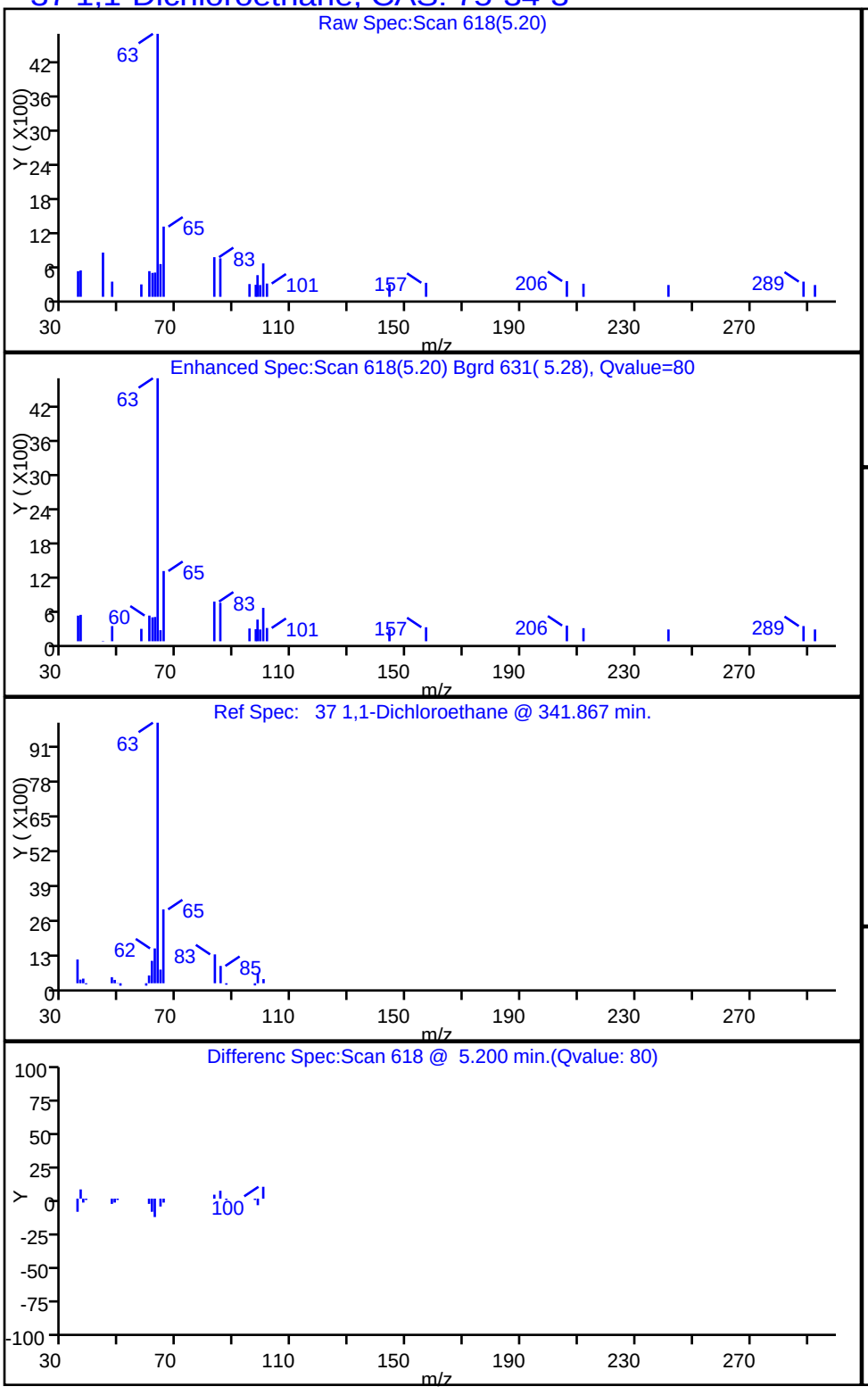
Report Date: 29-Sep-2015 08:29:55 Chrom Revision: 2.2 08-Sep-2015 13:41:46

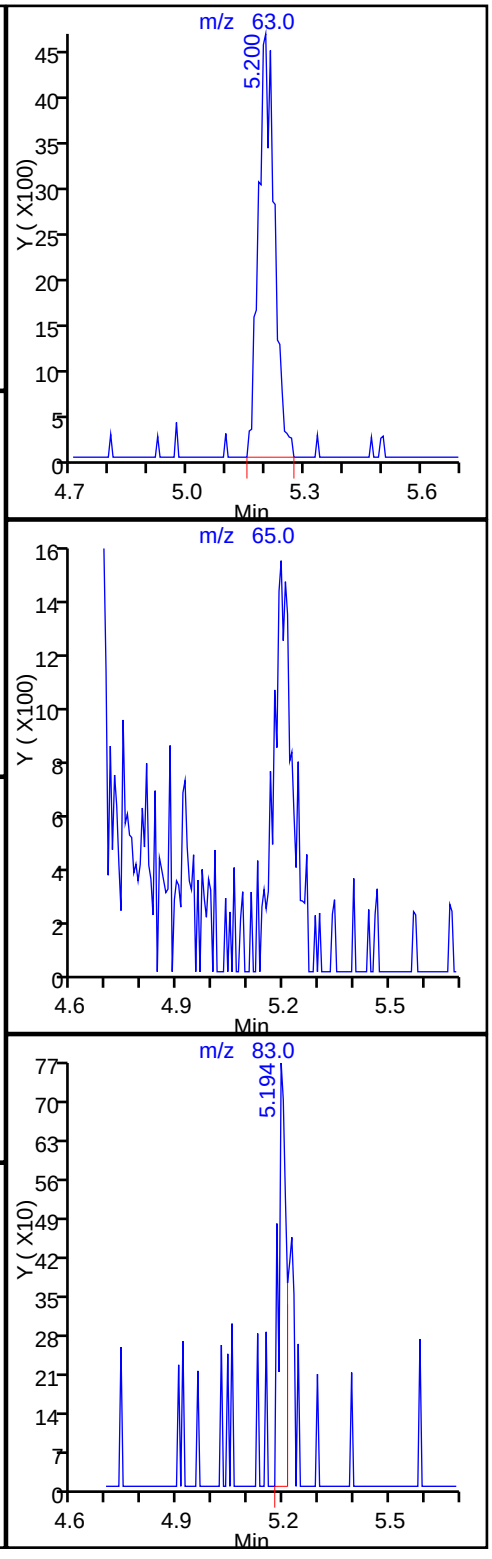
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928018.D

Injection Date:	28-Sep-2015 18:24:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-E-3	Lab Sample ID:	180-47935-3		
Client ID:	HD-MW-132-0/1-0				
Operator ID:	001562	ALS Bottle#:	18	Worklist Smp#:	18
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



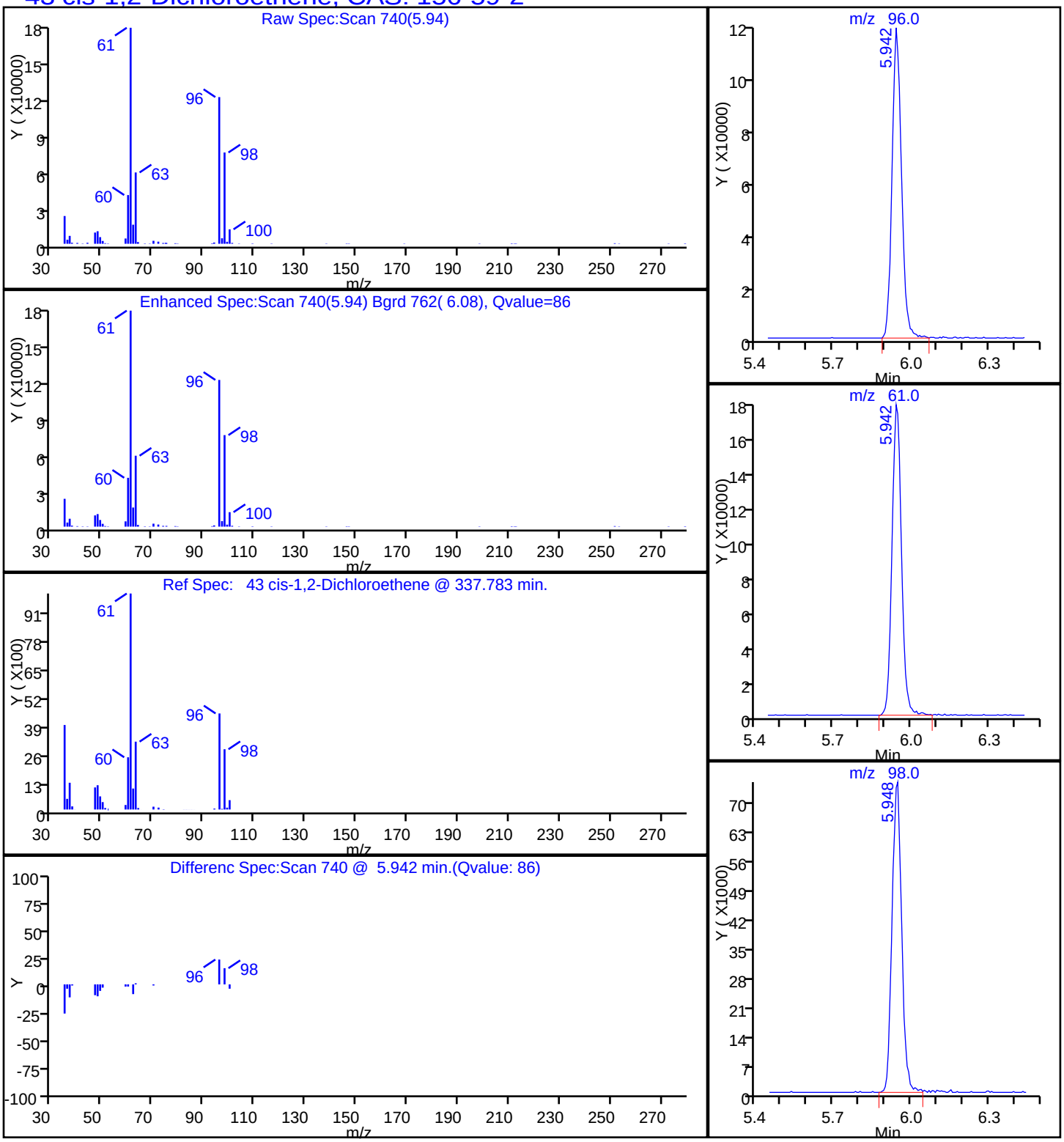


Report Date: 29-Sep-2015 08:29:56 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928018.D				
Injection Date:	28-Sep-2015 18:24:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-E-3	Lab Sample ID:	180-47935-3		
Client ID:	HD-MW-132-0/1-0				
Operator ID:	001562	ALS Bottle#:	18	Worklist Smp#:	18
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



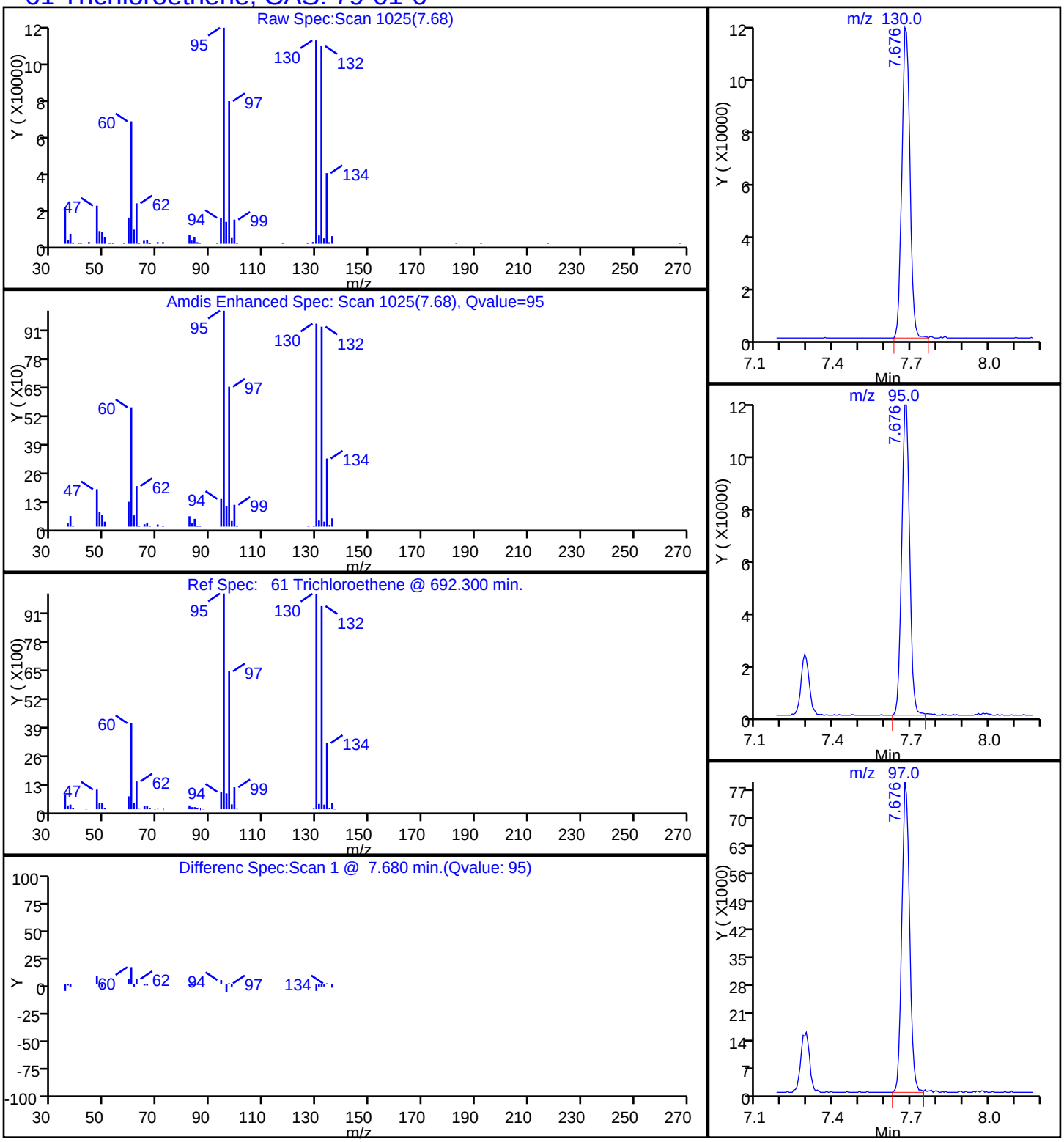
Report Date: 29-Sep-2015 08:29:56 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928018.D

Injection Date:	28-Sep-2015 18:24:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-E-3	Lab Sample ID:	180-47935-3		
Client ID:	HD-MW-132-0/1-0				
Operator ID:	001562	ALS Bottle#:	18	Worklist Smp#:	18
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		

61 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-134-0/1-0 | Lab Sample ID: 180-47935-4

Matrix: Water | Lab File ID: 60928019.D

Analysis Method: 8260C | Date Collected: 09/18/2015 13:32

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 18:49

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.: 155089 | 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	1.2		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	0.20	J	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.3		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	19		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	0.19	J	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	43		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	7.0		1.0	0.15
591-78-6	2-Hexanone	5.0	U ^c	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.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-134-0/1-0 | Lab Sample ID: 180-47935-4

Matrix: Water | Lab File ID: 60928019.D

Analysis Method: 8260C | Date Collected: 09/18/2015 13:32

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 18:49

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.: 155089 | 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)	105		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	98		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D
Lims ID: 180-47935-C-4 Lab Sample ID: 180-47935-4
Client ID: HD-MW-134-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2015 18:49:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-47935-C-4
Misc. Info.: 180-0008724-019
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 08:32:06 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 08:32:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.248	4.241	0.007	84	168097	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.283	0.007	97	537894	50.0	
* 3 Chlorobenzene-d5	119	10.399	10.398	0.001	91	122320	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.746	0.001	98	197954	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.560	6.547	0.013	93	121795	49.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.930	0.001	71	205396	51.4	
$ 7 Toluene-d8 (Surr)	98	8.945	8.938	0.007	94	507117	52.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.584	0.001	85	198804	46.4	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62	1.894	1.905	-0.011	1	1520	0.4396	M
15 Bromomethane	94		2.240				ND	
16 Chloroethane	64		2.380				ND	
22 1,1-Dichloroethene	96	3.366	3.341	0.025	93	16365	6.04	
24 Acetone	43		3.426				ND	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.126				ND	
33 Acrylonitrile	53		4.503				ND	
34 trans-1,2-Dichloroethene	96	4.571	4.558	0.013	55	3071	0.9828	M
35 Methyl tert-butyl ether	73		4.564				ND	
37 1,1-Dichloroethane	63	5.203	5.190	0.013	96	36427	6.51	
43 cis-1,2-Dichloroethene	96	5.946	5.933	0.013	85	322363	94.9	
44 2-Butanone (MEK)	43		5.951				ND	
48 Chlorobromomethane	128		6.225				ND	
50 Chloroform	83	6.371	6.371	0.000	92	5192	0.9351	
51 1,1,1-Trichloroethane	97		6.535				ND	
53 Carbon tetrachloride	117		6.717				ND	
56 Benzene	78	6.949	6.942	0.007	42	6490	0.5177	
57 1,2-Dichloroethane	62		7.015				ND	
61 Trichloroethene	130	7.679	7.679	0.000	95	558378	213.6	
64 1,2-Dichloropropane	63		7.952				ND	
65 1,4-Dioxane	88	8.026	8.038	-0.012	41	2275	77.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.232				ND	
71 cis-1,3-Dichloropropene	75		8.676				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
73 Toluene	91		9.011				ND	
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97		9.449				ND	
77 Tetrachloroethene	164	9.523	9.528	-0.005	93	75330	35.0	
79 2-Hexanone	43		9.656				ND	
81 Chlorodibromomethane	129		9.820				ND	
82 Ethylene Dibromide	107		9.936				ND	
84 Chlorobenzene	112		10.428				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.659				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				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

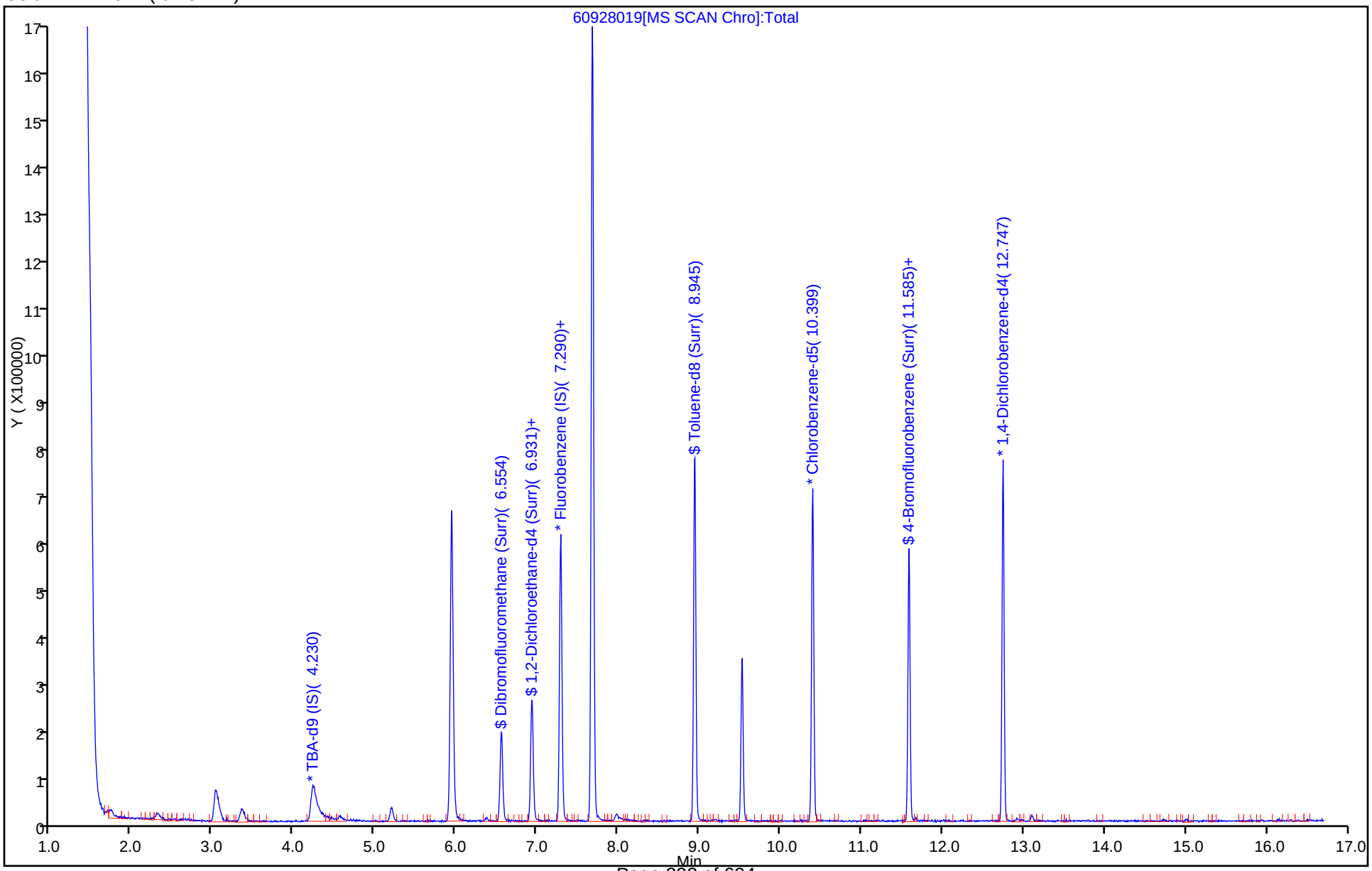
Report Date: 29-Sep-2015 08:32:06 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D

Injection Date:	28-Sep-2015 18:49:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-C-4	Lab Sample ID:	180-47935-4	Worklist Smp#:	19
Client ID:	HD-MW-134-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)

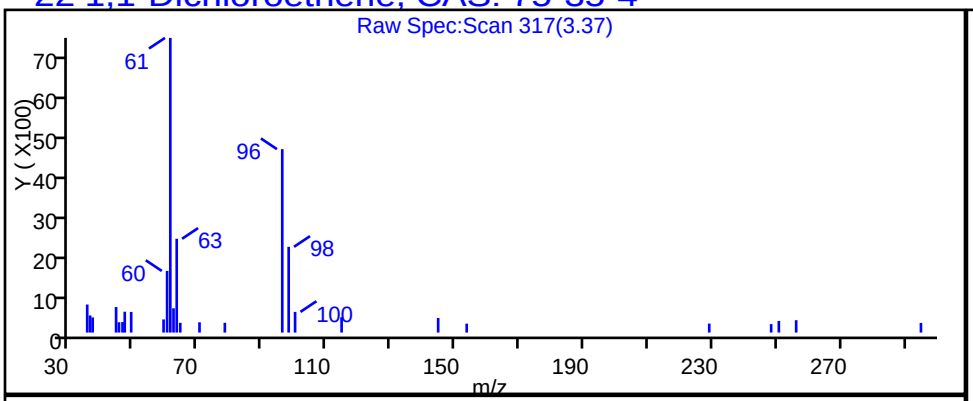


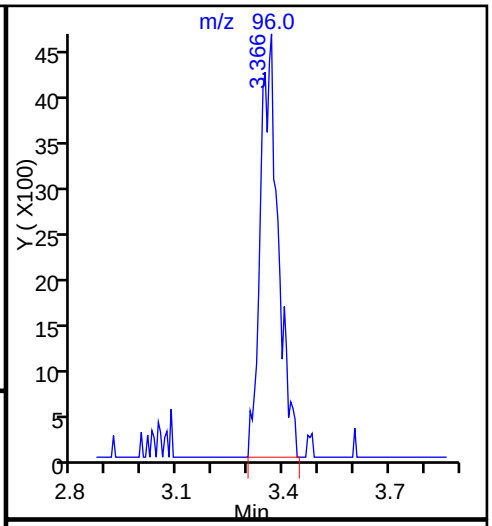
Report Date: 29-Sep-2015 08:32:06 Chrom Revision: 2.2 08-Sep-2015 13:41:46

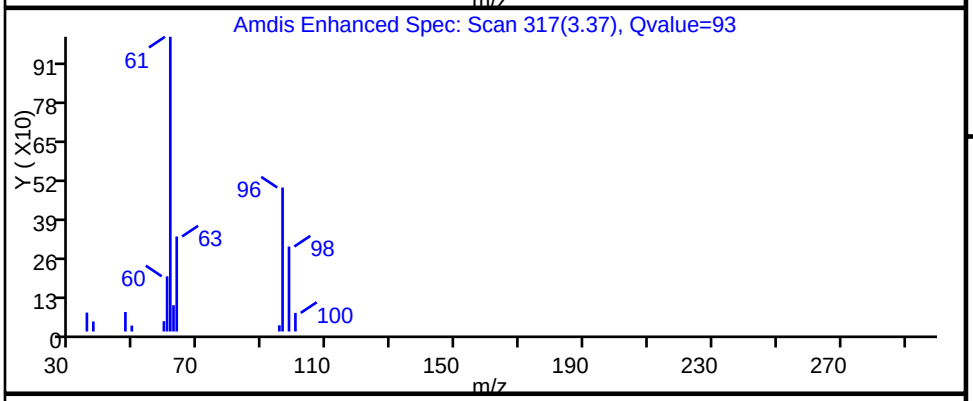
TestAmerica Pittsburgh

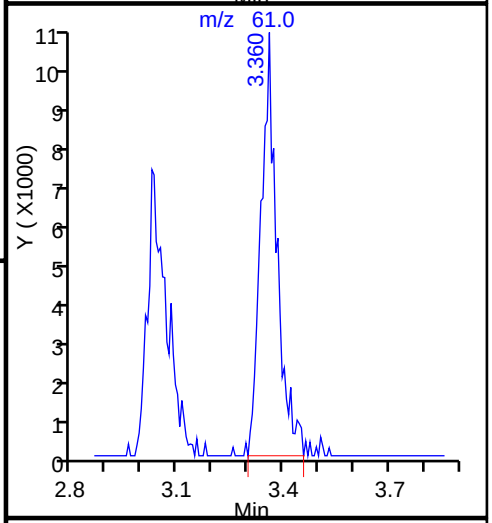
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D		
Injection Date:	28-Sep-2015 18:49:30	Instrument ID:	CHHP6
Lims ID:	180-47935-C-4	Lab Sample ID:	180-47935-4
Client ID:	HD-MW-134-0/1-0		
Operator ID:	001562	ALS Bottle#:	19 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

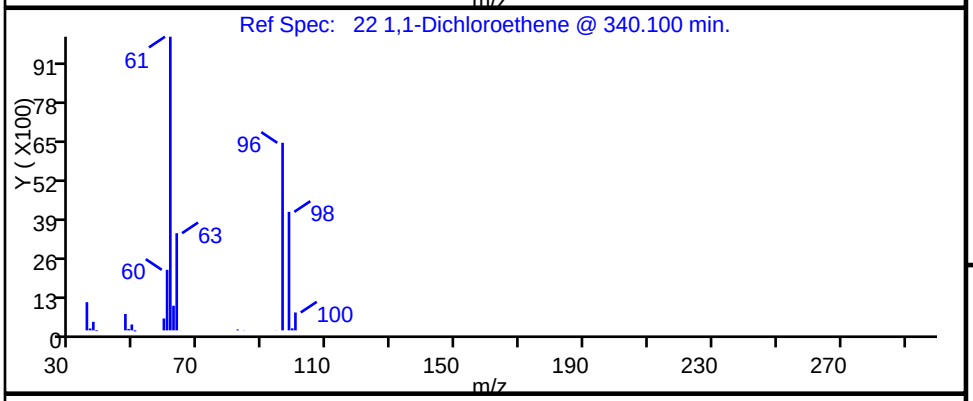
22 1,1-Dichloroethene, CAS: 75-35-4

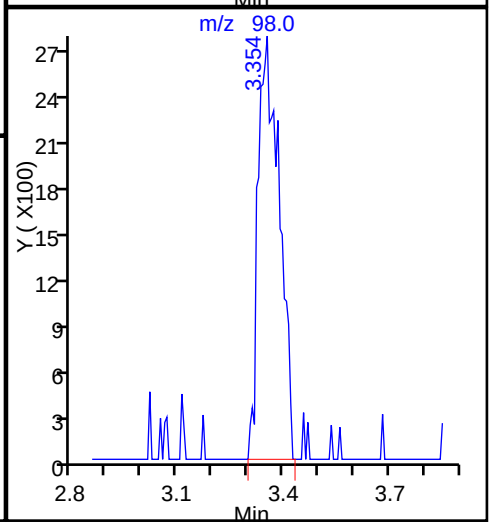


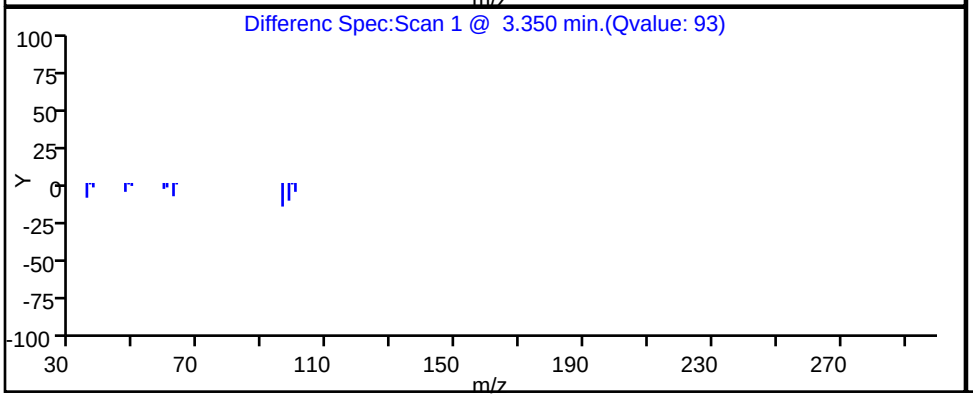










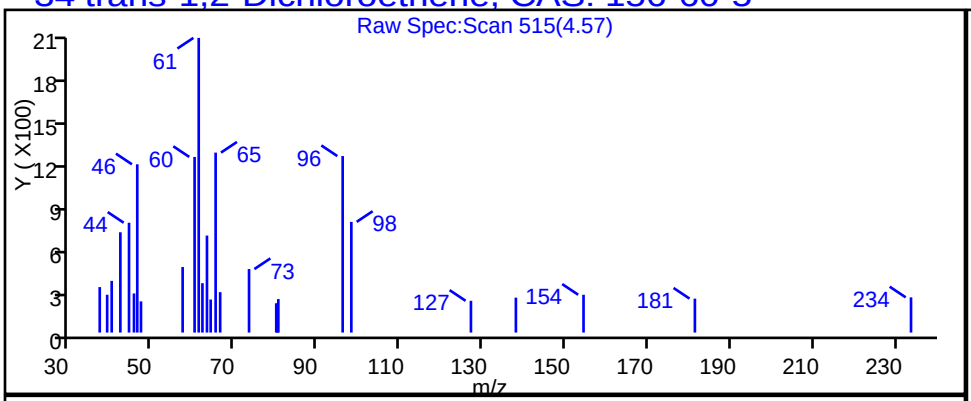


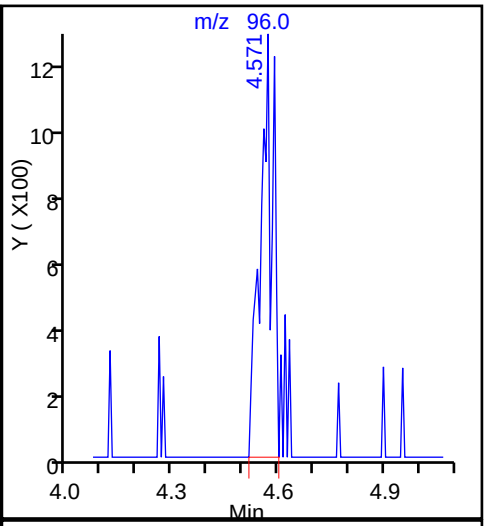
Report Date: 29-Sep-2015 08:32:06 Chrom Revision: 2.2 08-Sep-2015 13:41:46

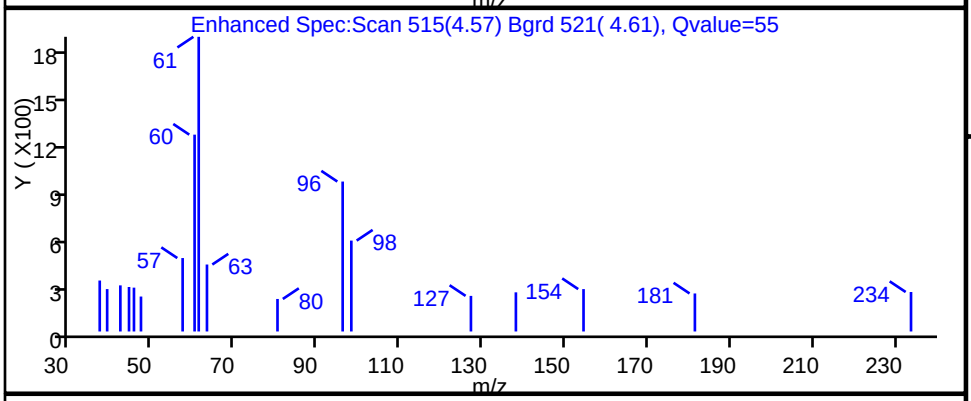
TestAmerica Pittsburgh

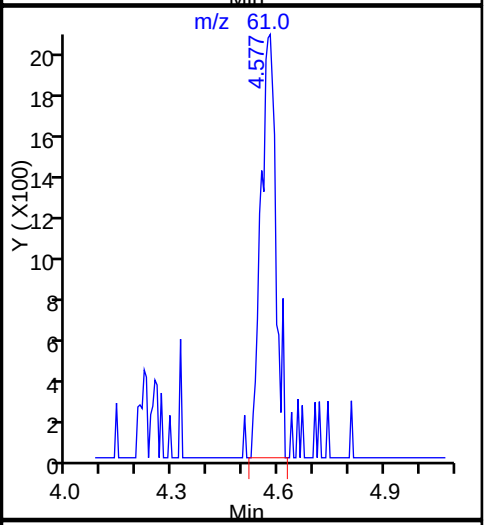
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D				
Injection Date:	28-Sep-2015 18:49:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-4	Lab Sample ID:	180-47935-4		
Client ID:	HD-MW-134-0/1-0				
Operator ID:	001562	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

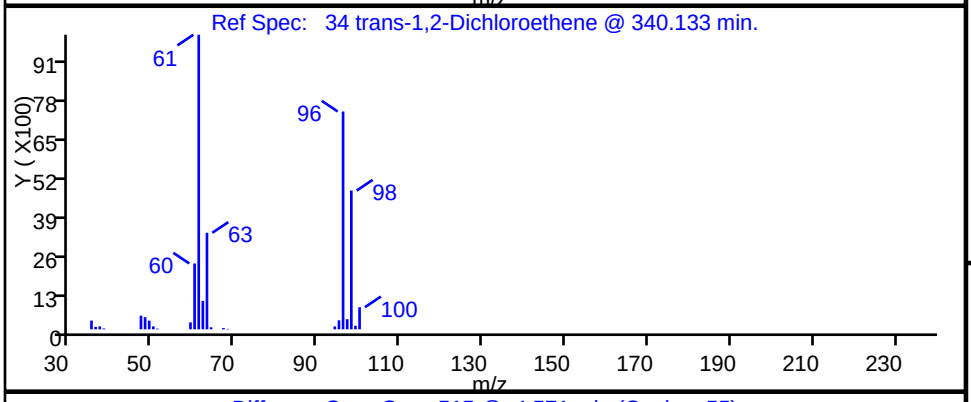
34 trans-1,2-Dichloroethene, CAS: 156-60-5

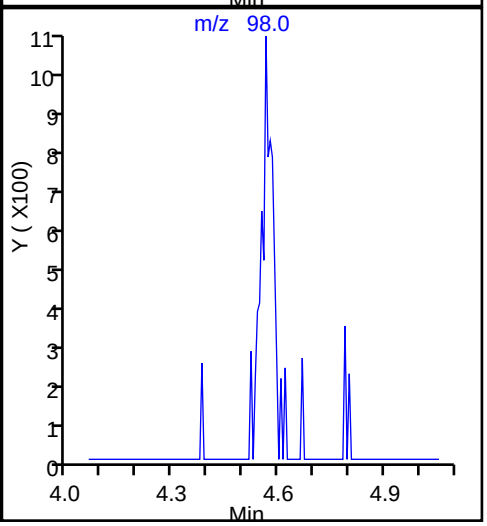


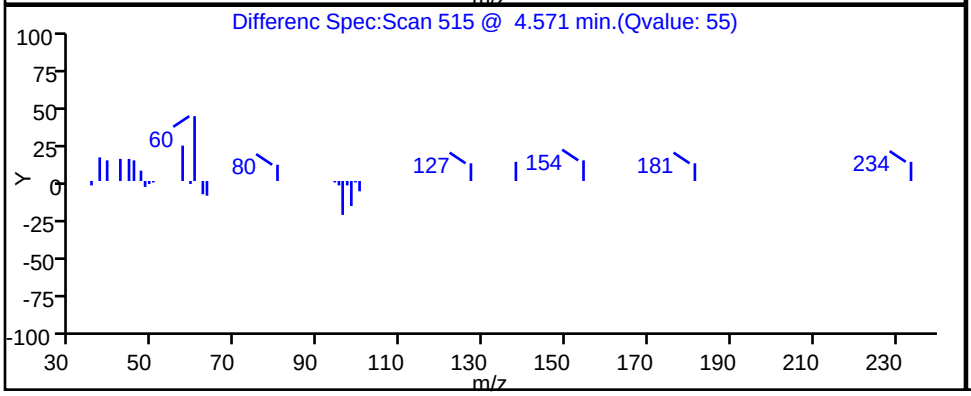










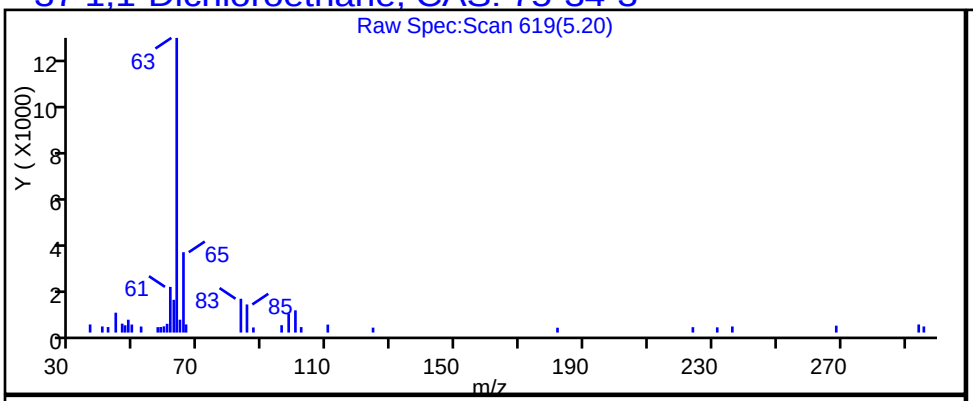


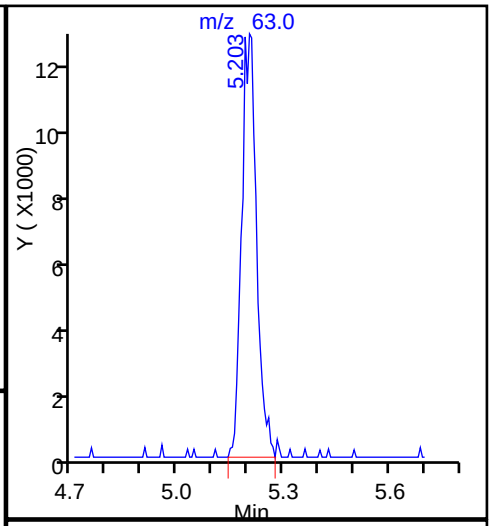
Report Date: 29-Sep-2015 08:32:07 Chrom Revision: 2.2 08-Sep-2015 13:41:46

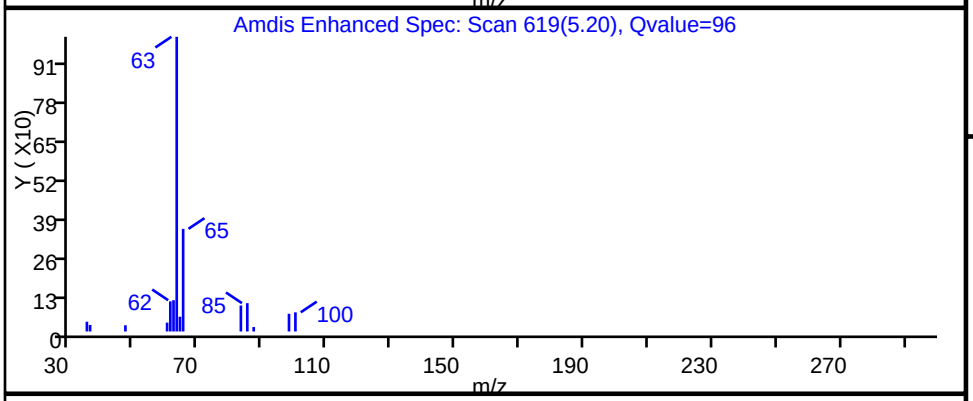
TestAmerica Pittsburgh

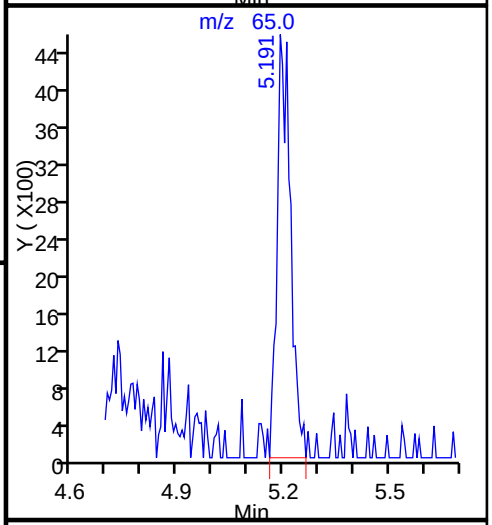
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D				
Injection Date:	28-Sep-2015 18:49:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-4	Lab Sample ID:	180-47935-4		
Client ID:	HD-MW-134-0/1-0				
Operator ID:	001562	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

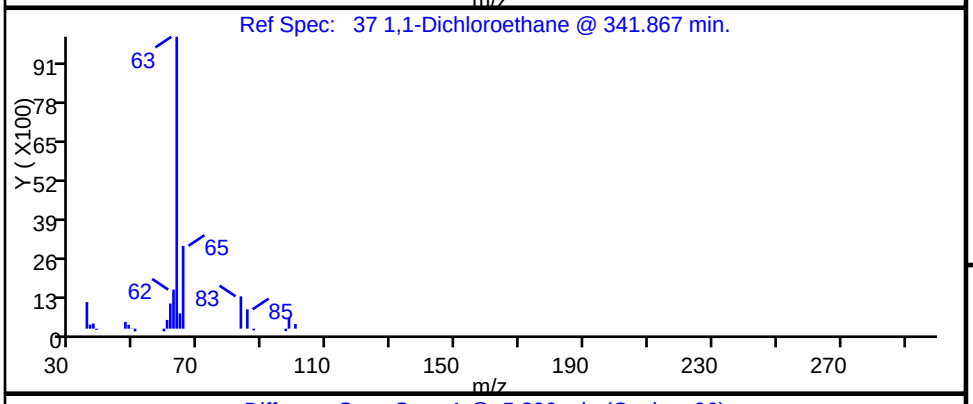
37 1,1-Dichloroethane, CAS: 75-34-3

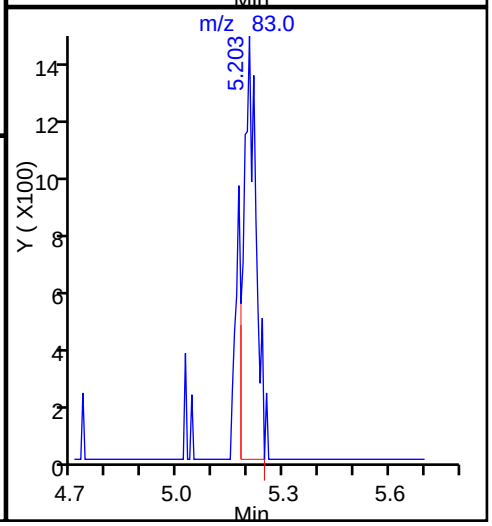


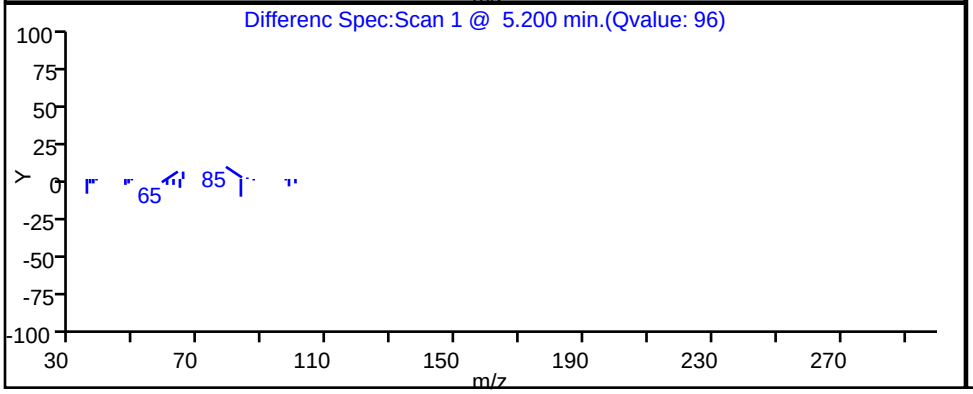










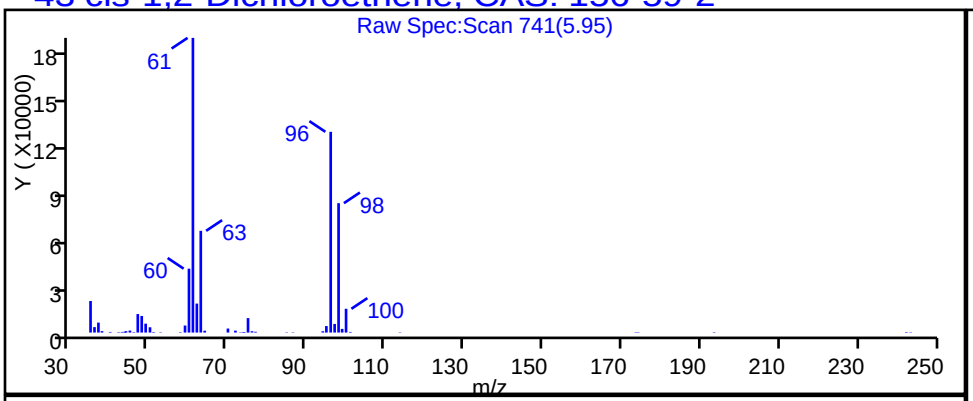


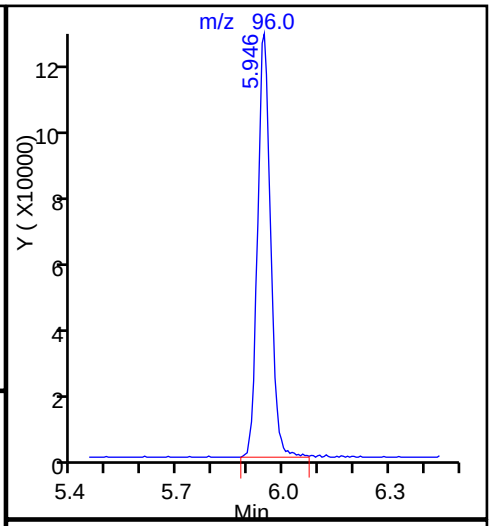
Report Date: 29-Sep-2015 08:32:07 Chrom Revision: 2.2 08-Sep-2015 13:41:46

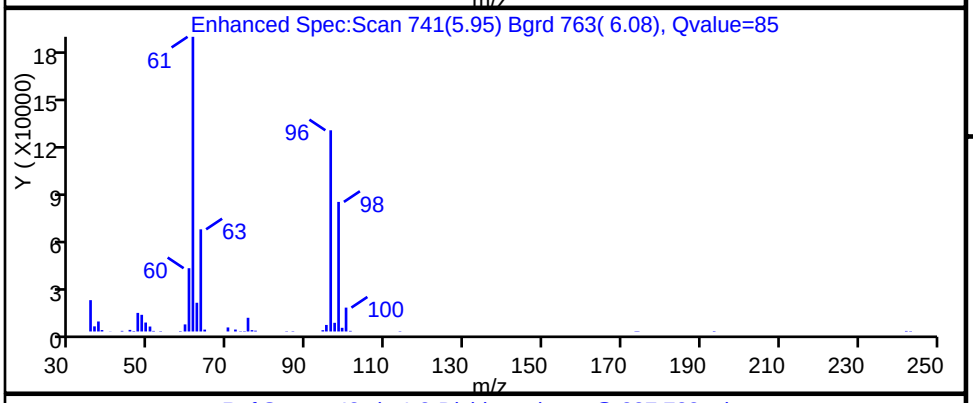
TestAmerica Pittsburgh

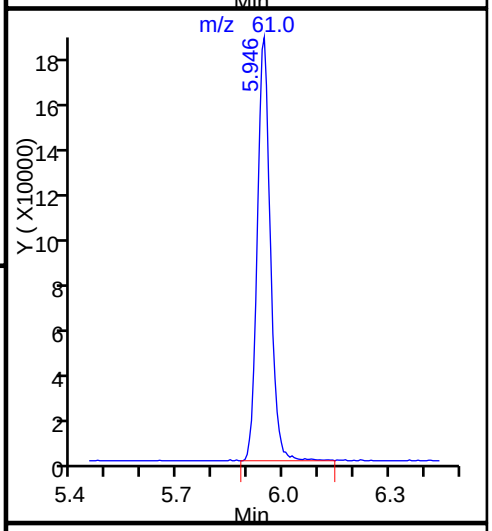
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D				
Injection Date:	28-Sep-2015 18:49:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-4	Lab Sample ID:	180-47935-4		
Client ID:	HD-MW-134-0/1-0				
Operator ID:	001562	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

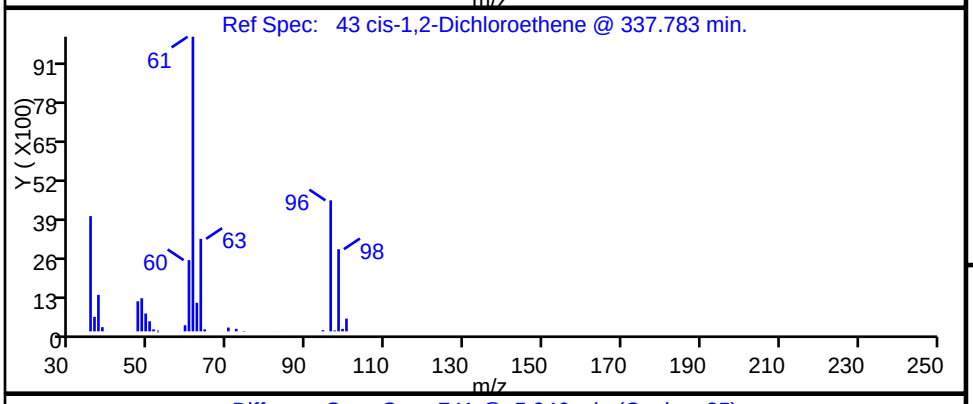
43 cis-1,2-Dichloroethene, CAS: 156-59-2

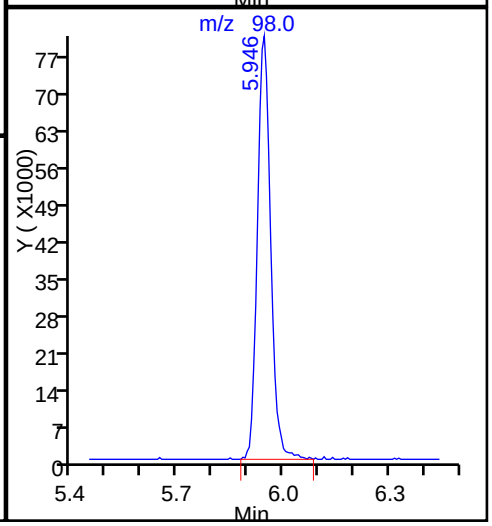


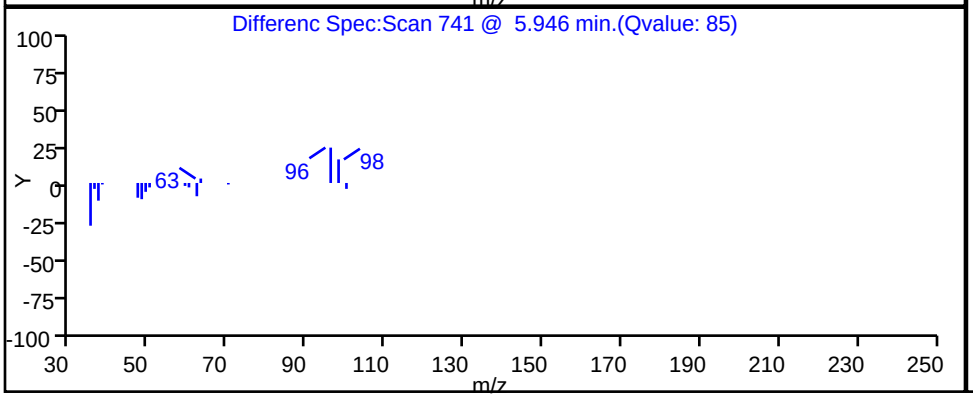












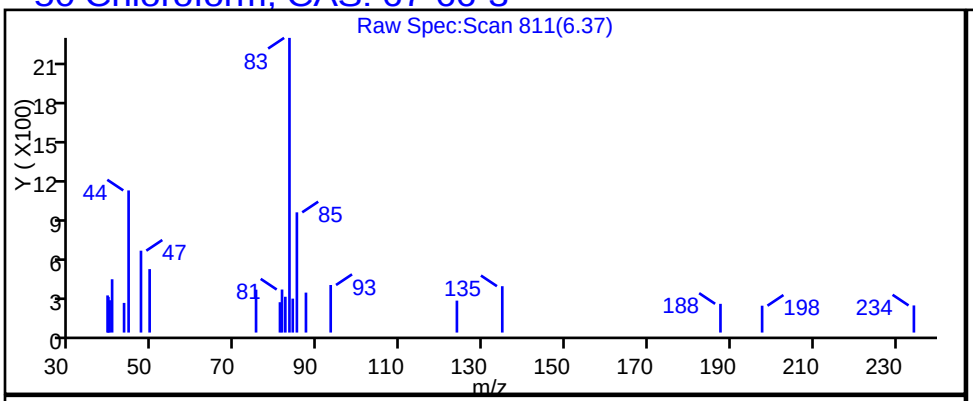
Report Date: 29-Sep-2015 08:32:07 Chrom Revision: 2.2 08-Sep-2015 13:41:46

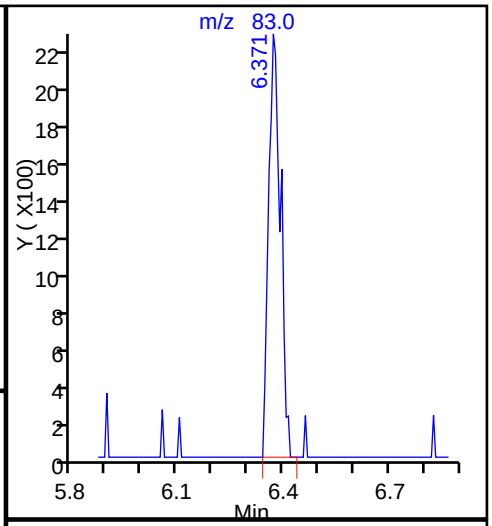
TestAmerica Pittsburgh

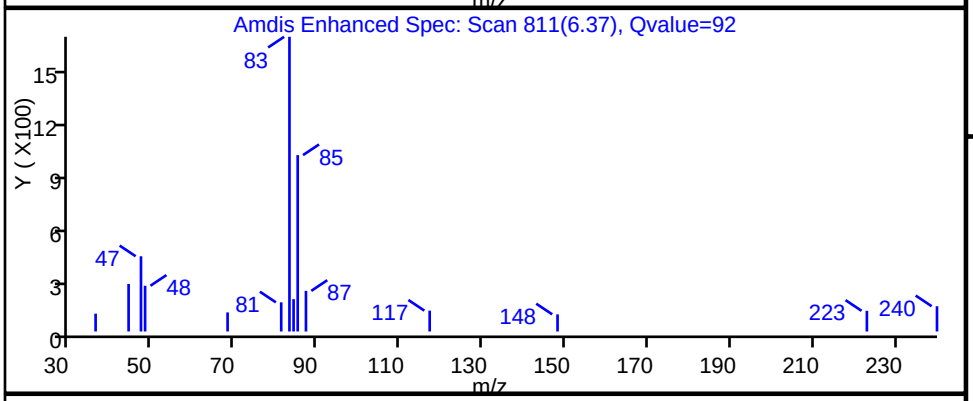
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D

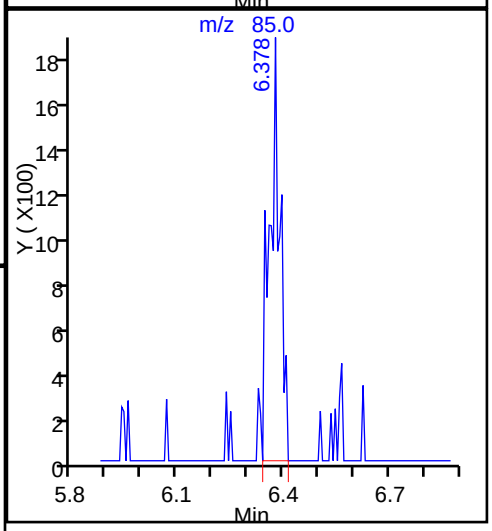
Injection Date:	28-Sep-2015 18:49:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-4	Lab Sample ID:	180-47935-4		
Client ID:	HD-MW-134-0/1-0				
Operator ID:	001562	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

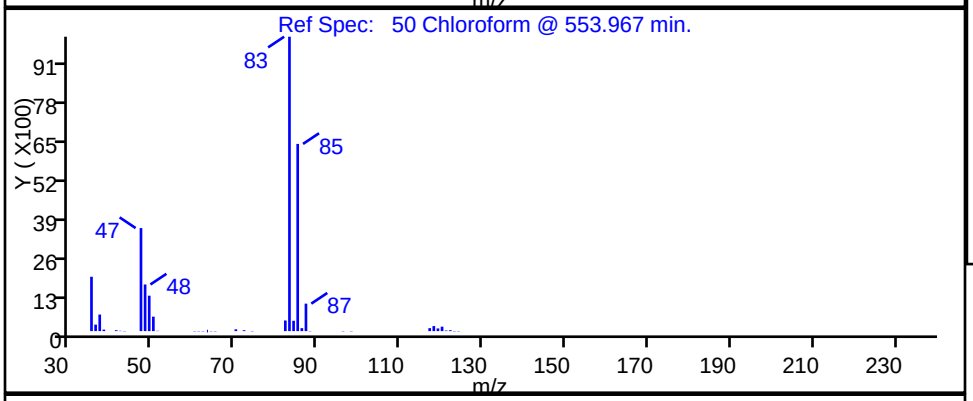
50 Chloroform, CAS: 67-66-3

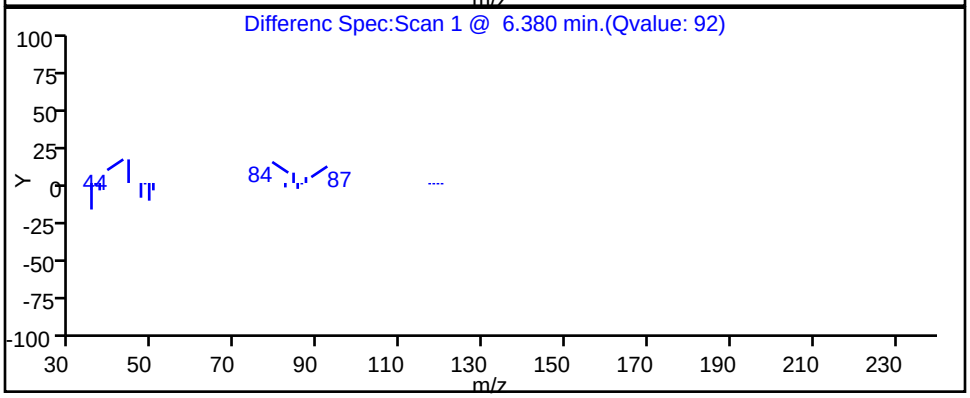










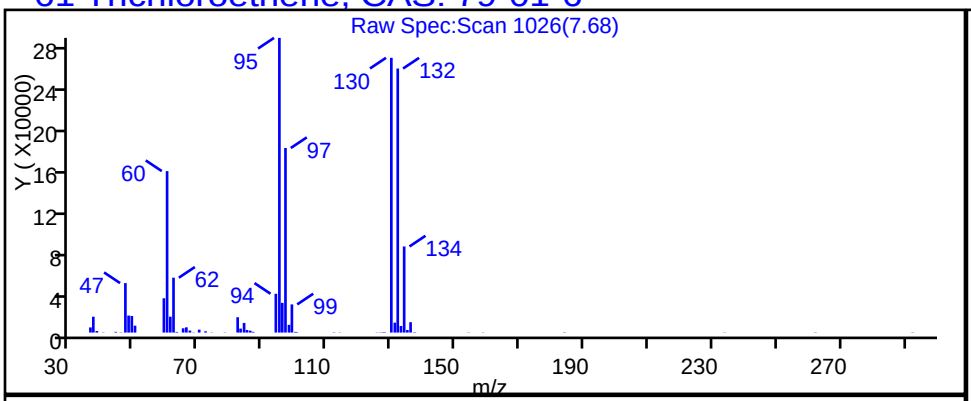


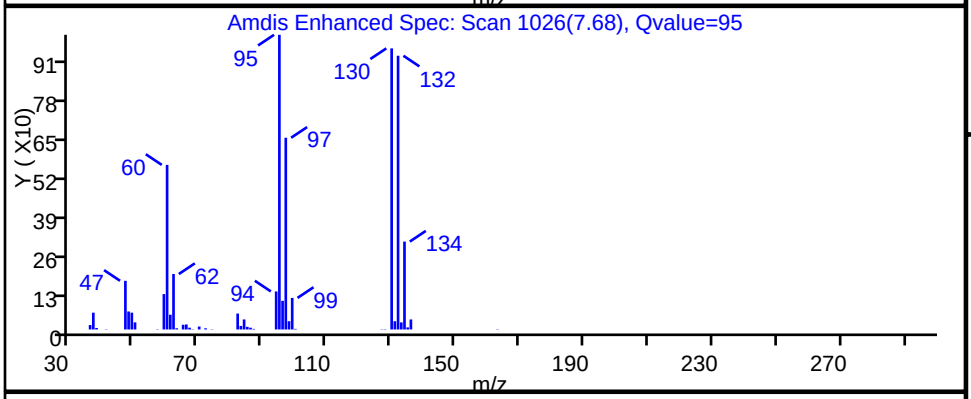
Report Date: 29-Sep-2015 08:32:07 Chrom Revision: 2.2 08-Sep-2015 13:41:46

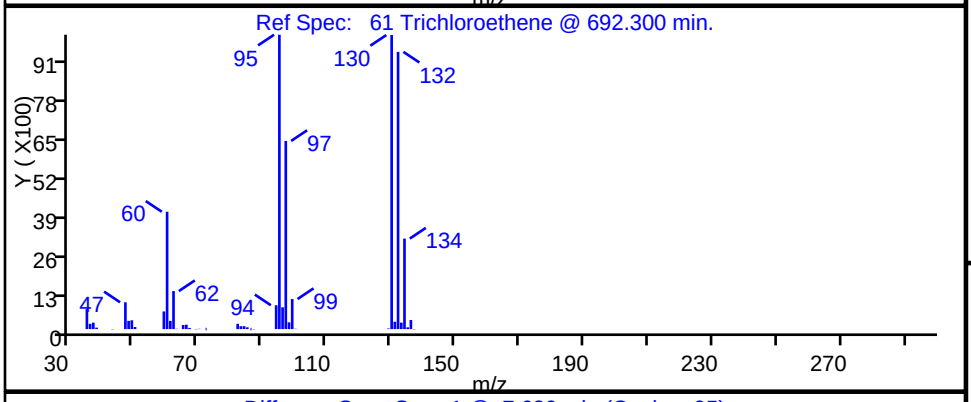
TestAmerica Pittsburgh

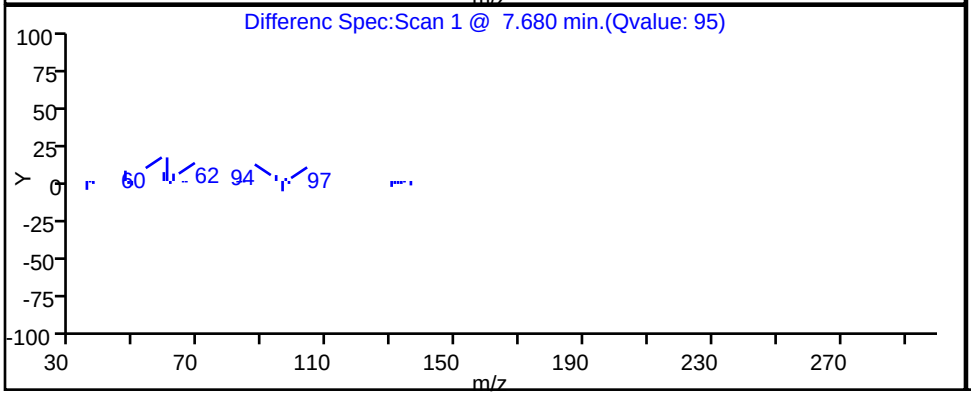
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D		
Injection Date:	28-Sep-2015 18:49:30	Instrument ID:	CHHP6
Lims ID:	180-47935-C-4	Lab Sample ID:	180-47935-4
Client ID:	HD-MW-134-0/1-0		
Operator ID:	001562	ALS Bottle#:	19 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

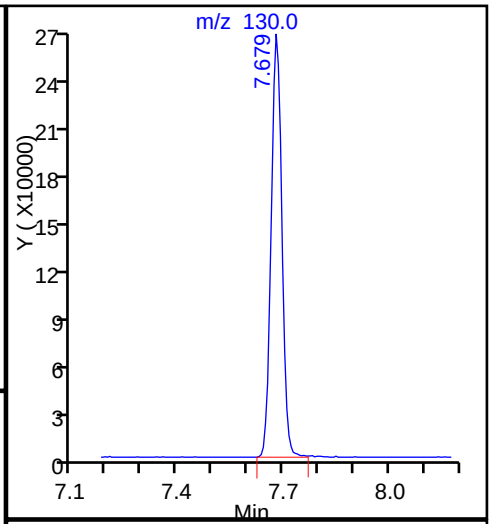
61 Trichloroethene, CAS: 79-01-6

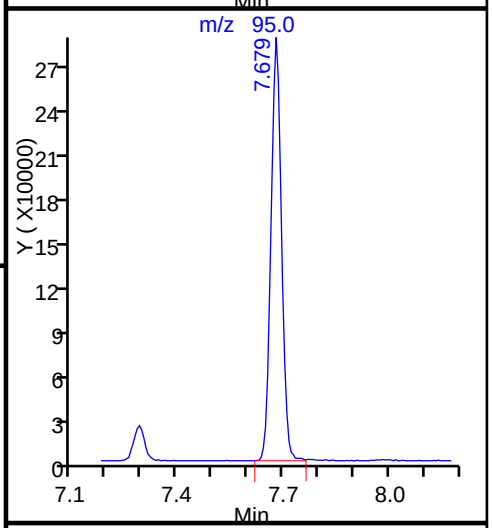


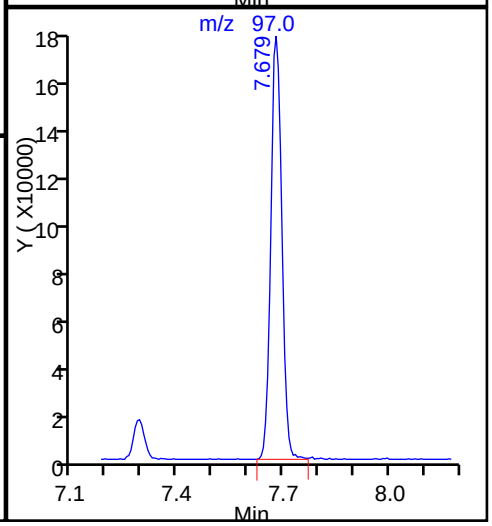












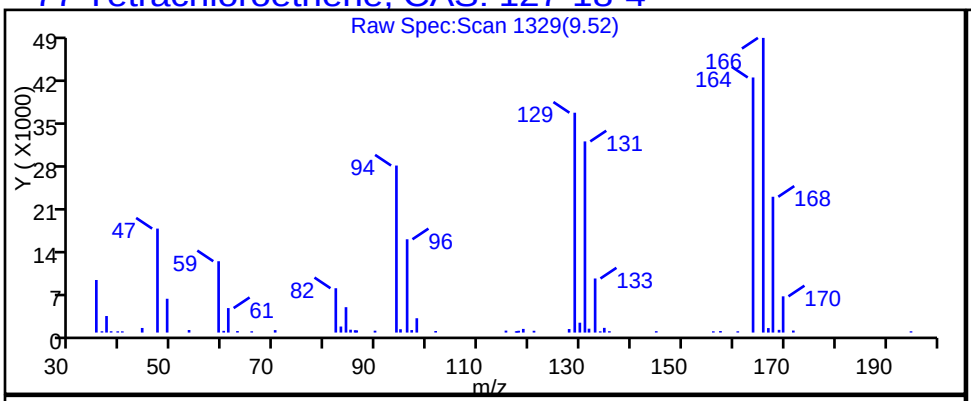
Report Date: 29-Sep-2015 08:32:07 Chrom Revision: 2.2 08-Sep-2015 13:41:46

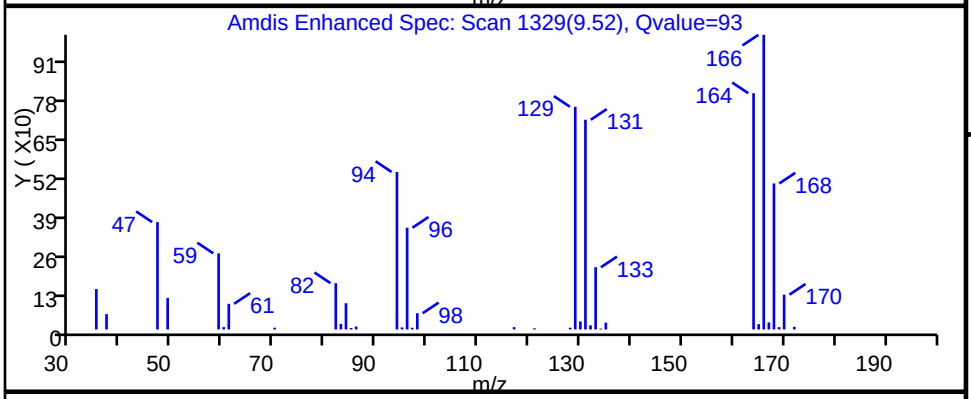
TestAmerica Pittsburgh

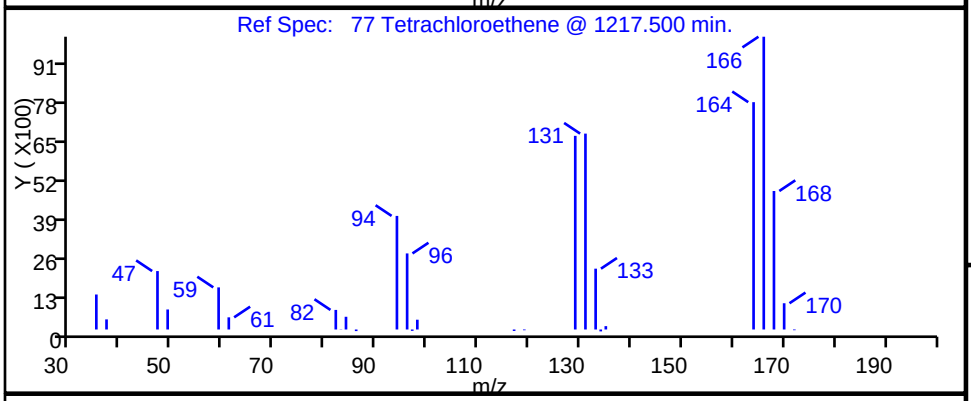
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D

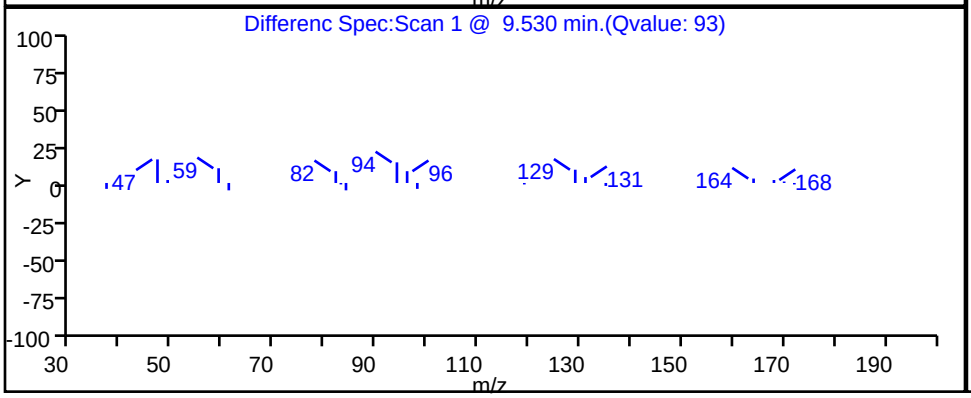
Injection Date:	28-Sep-2015 18:49:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-4	Lab Sample ID:	180-47935-4		
Client ID:	HD-MW-134-0/1-0				
Operator ID:	001562	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

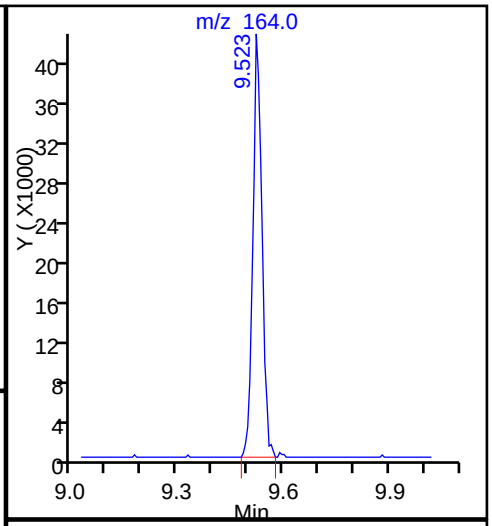
77 Tetrachloroethene, CAS: 127-18-4

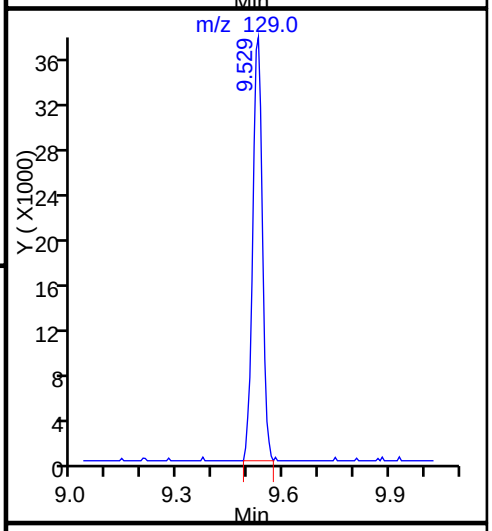


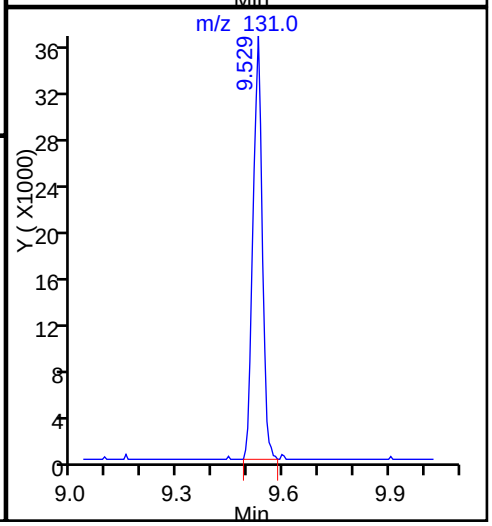












Manual Integration/User Assign Peak Report

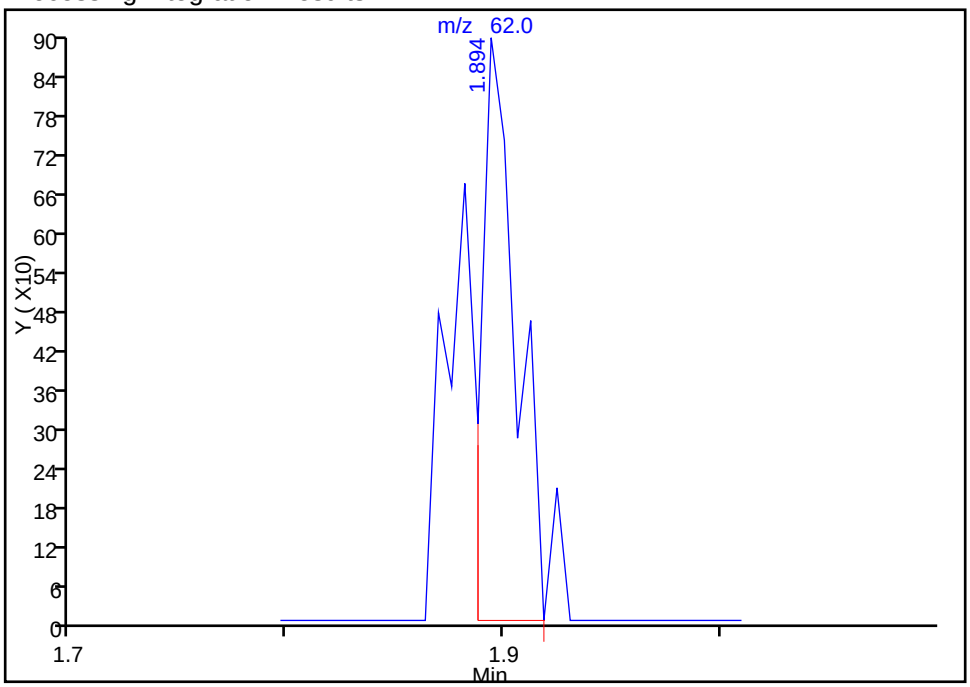
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D				
Injection Date:	28-Sep-2015 18:49:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-4	Lab Sample ID:	180-47935-4		
Client ID:	HD-MW-134-0/1-0				
Operator ID:	001562	ALS Bottle#:	19	Worklist Smp#:	19
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		

13 Vinyl chloride, CAS: 75-01-4

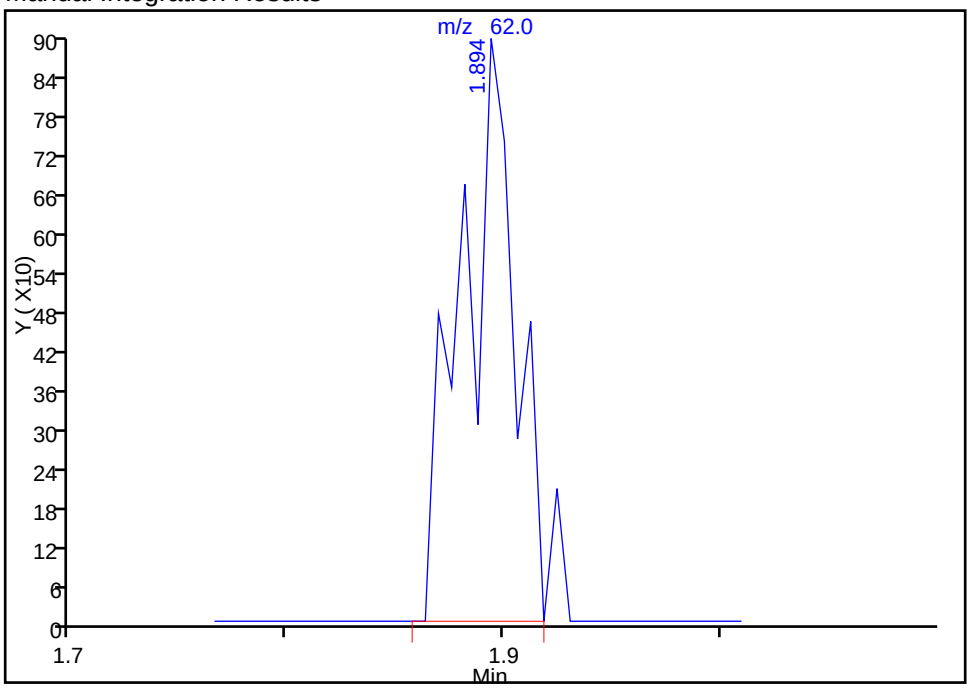
Processing Integration Results

RT: 1.89
Area: 974
Amount: 0.281682
Amount Units: ng



Manual Integration Results

RT: 1.89
Area: 1520
Amount: 0.439586
Amount Units: ng



Reviewer: fergusond, 29-Sep-2015 08:32:05
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

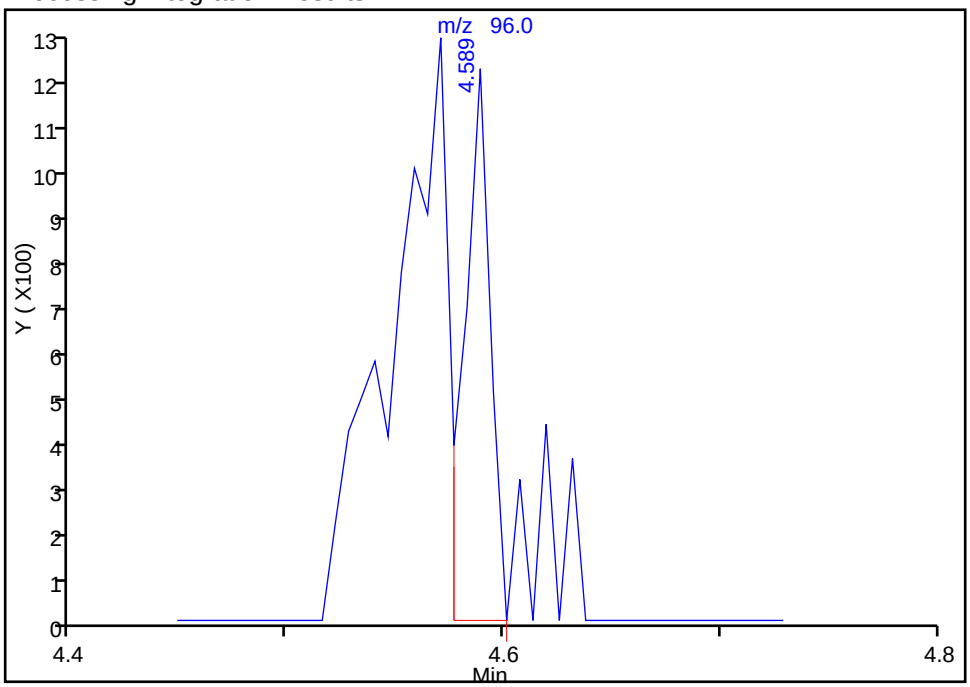
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928019.D				
Injection Date:	28-Sep-2015 18:49:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-4	Lab Sample ID:	180-47935-4		
Client ID:	HD-MW-134-0/1-0				
Operator ID:	001562	ALS Bottle#:	19	Worklist Smp#:	19
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		

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

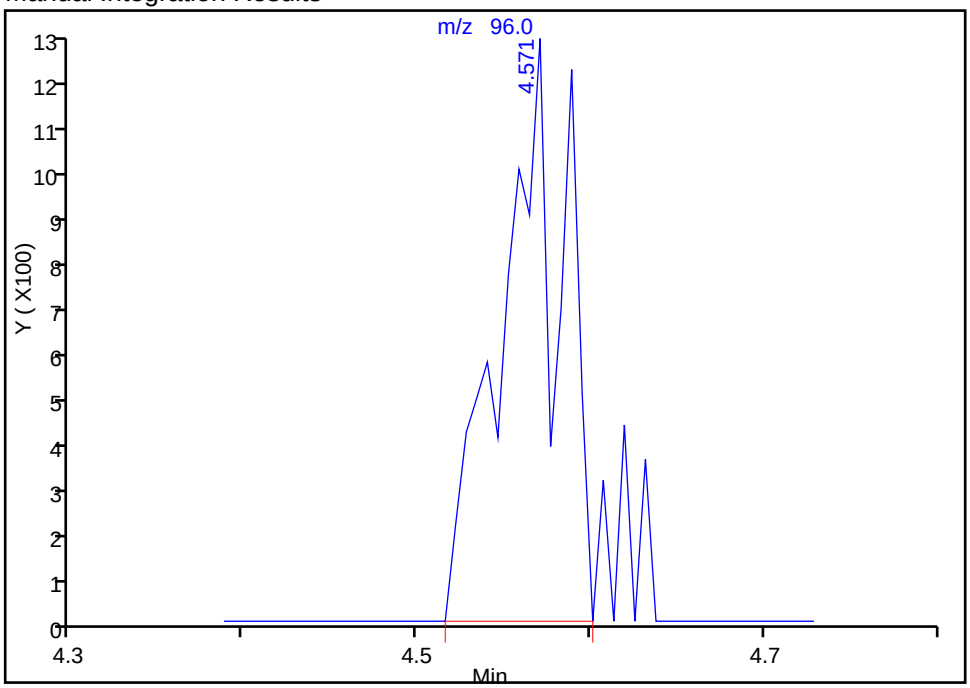
Processing Integration Results

RT: 4.59
Area: 971
Amount: 0.310742
Amount Units: ng



Manual Integration Results

RT: 4.57
Area: 3071
Amount: 0.982790
Amount Units: ng



Reviewer: fergusond, 29-Sep-2015 08:32:05
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-114-0/1-0 | Lab Sample ID: 180-47935-5

Matrix: Water | Lab File ID: 60929028.D

Analysis Method: 8260C | Date Collected: 09/18/2015 12:20

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2015 22:24

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.: 155230 | 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	15		10	2.3
74-83-9	Bromomethane	10	U ^c	10	3.1
75-00-3	Chloroethane	10	U	10	2.1
75-35-4	1,1-Dichloroethene	18		10	3.0
67-64-1	Acetone	50	U	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	8.2	J	10	1.7
1634-04-4	Methyl tert-butyl ether	10	U	10	1.8
75-34-3	1,1-Dichloroethane	19		10	1.2
156-59-2	*cis-1,2-Dichloroethene*	*1500*	*E*	*10*	*2.4*
74-97-5	Bromochloromethane	10	U	10	1.8
78-93-3	2-Butanone (MEK)	50	U	50	5.5
67-66-3	Chloroform	10	U	10	1.7
71-55-6	1,1,1-Trichloroethane	3.4	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*	*1300*	*E*	*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	490		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.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-114-0/1-0 | Lab Sample ID: 180-47935-5

Matrix: Water | Lab File ID: 60929028.D

Analysis Method: 8260C | Date Collected: 09/18/2015 12:20

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2015 22:24

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.: 155230 | 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)	103		64-135
2037-26-5	Toluene-d8 (Surr)	105		71-118
460-00-4	4-Bromofluorobenzene (Surr)	89		70-118
1868-53-7	Dibromofluoromethane (Surr)	104		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D
Lims ID: 180-47935-C-5 Lab Sample ID: 180-47935-5
Client ID: HD-MW-114-0/1-0
Sample Type: Client
Inject. Date: 29-Sep-2015 22:24:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 180-47935-C-5, 10x
Misc. Info.: 180-0008741-028
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 30-Sep-2015 08:40:28 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: XAWRK004

First Level Reviewer: fergusond Date: 30-Sep-2015 08:40:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.235	4.242	-0.007	87	159602	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.283	0.006	97	476507	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	92	110639	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.752	12.746	0.006	98	166999	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.559	6.553	0.006	92	113901	51.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.931	0.005	71	183031	51.7	
$ 7 Toluene-d8 (Surr)	98	8.944	8.938	0.006	95	457352	52.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	83	171499	44.3	
12 Chloromethane	50		1.766				ND	
13 Vinyl chloride	62	1.899	1.900	-0.001	96	23518	7.68	
15 Bromomethane	94		2.246				ND	
16 Chloroethane	64		2.380				ND	
22 1,1-Dichloroethene	96	3.347	3.335	0.012	93	21666	9.03	
24 Acetone	43		3.420				ND	
26 Carbon disulfide	76		3.627				ND	
31 Methylene Chloride	84		4.120				ND	
33 Acrylonitrile	53		4.503				ND	
34 trans-1,2-Dichloroethene	96	4.570	4.558	0.012	94	11417	4.12	
35 Methyl tert-butyl ether	73		4.570				ND	
37 1,1-Dichloroethane	63	5.203	5.191	0.012	1	48038	9.69	M
43 cis-1,2-Dichloroethene	96	5.945	5.939	0.006	82	2210686	734.4	E
44 2-Butanone (MEK)	43		5.945				ND	
48 Chlorobromomethane	128		6.231				ND	
50 Chloroform	83	6.377	6.371	0.006	1	1348	0.2741	
51 1,1,1-Trichloroethane	97	6.547	6.541	0.006	37	6267	1.72	
53 Carbon tetrachloride	117		6.712				ND	
56 Benzene	78		6.937				ND	
57 1,2-Dichloroethane	62		7.016				ND	
61 Trichloroethene	130	7.679	7.679	0.000	94	1462809	631.6	E
64 1,2-Dichloropropane	63		7.953				ND	
65 1,4-Dioxane	88		8.032				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.226				ND	
71 cis-1,3-Dichloropropene	75		8.677				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.823				ND	
73 Toluene	91		9.011				ND	
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97		9.449				ND	
77 Tetrachloroethene	164	9.528	9.522	0.006	94	479234	246.1	
79 2-Hexanone	43		9.662				ND	
81 Chlorodibromomethane	129		9.826				ND	
82 Ethylene Dibromide	107		9.942				ND	
84 Chlorobenzene	112		10.429				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.660				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

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

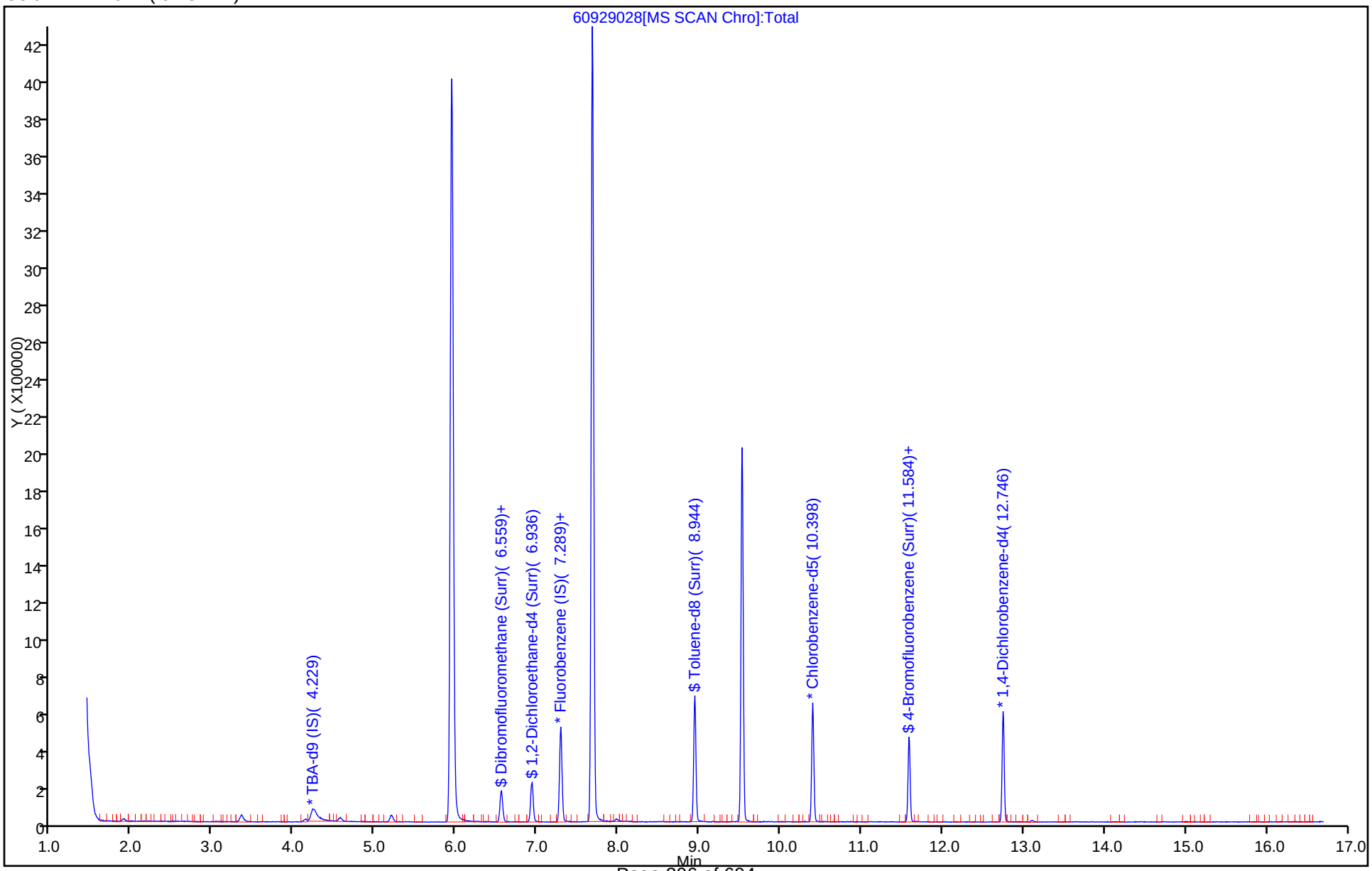
Report Date: 30-Sep-2015 08:40:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D

Injection Date:	29-Sep-2015 22:24:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-C-5	Lab Sample ID:	180-47935-5	Worklist Smp#:	28
Client ID:	HD-MW-114-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	27
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)

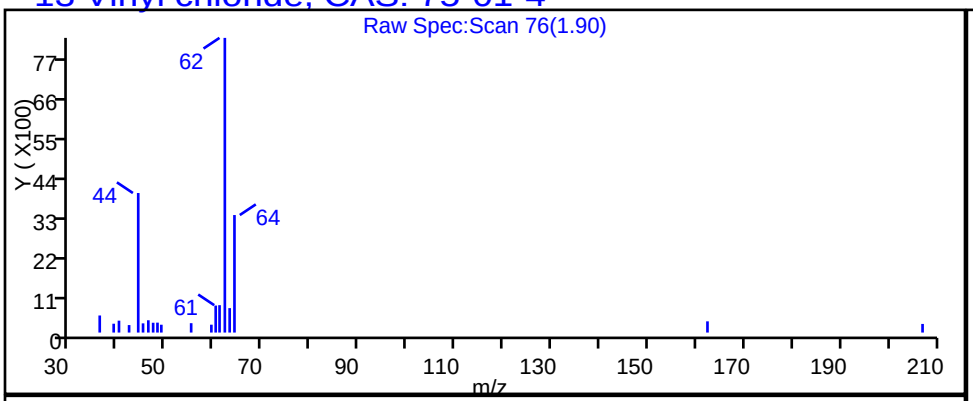


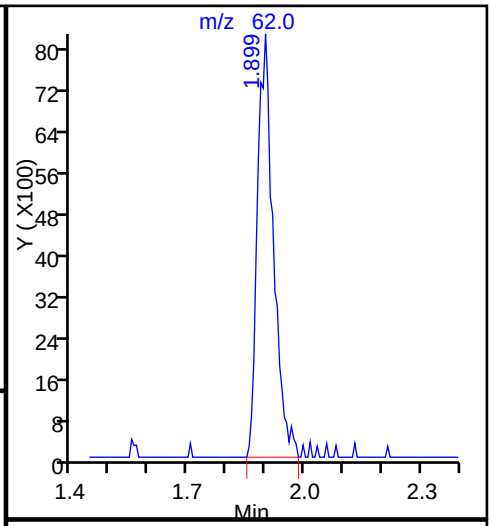
Report Date: 30-Sep-2015 08:40:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

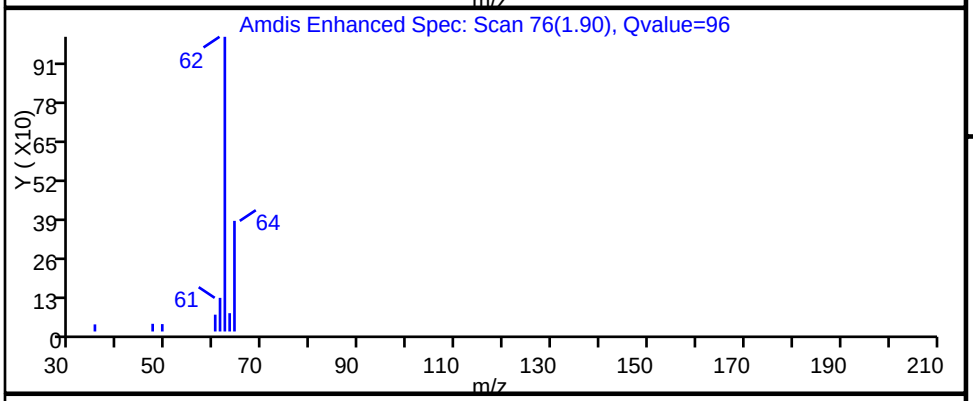
TestAmerica Pittsburgh

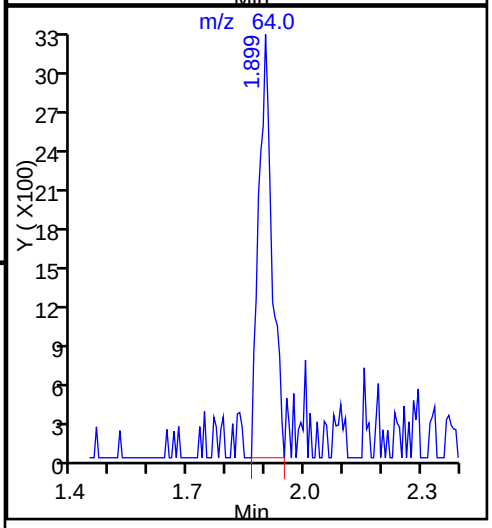
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D				
Injection Date:	29-Sep-2015 22:24:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

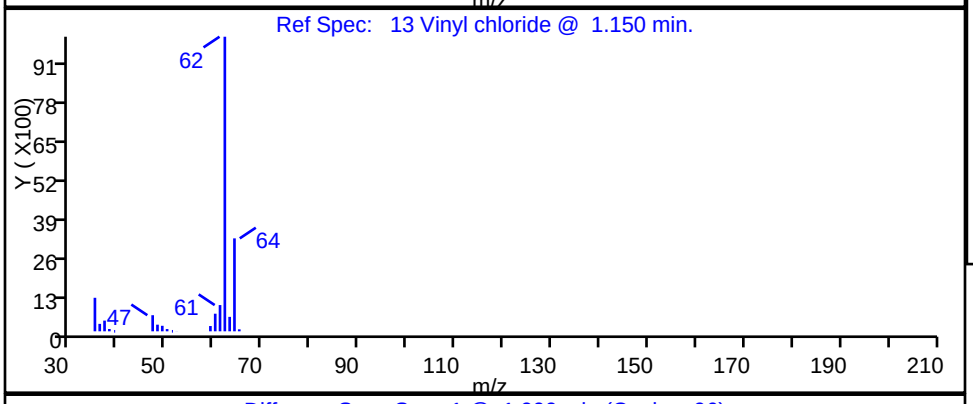
13 Vinyl chloride, CAS: 75-01-4

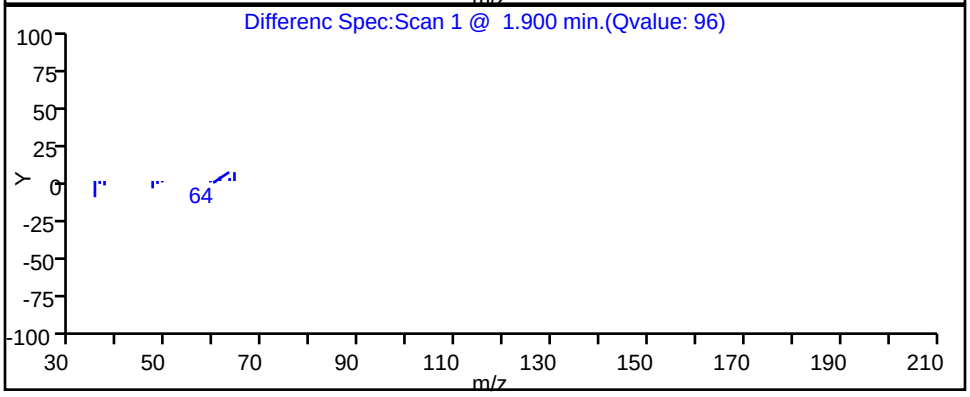










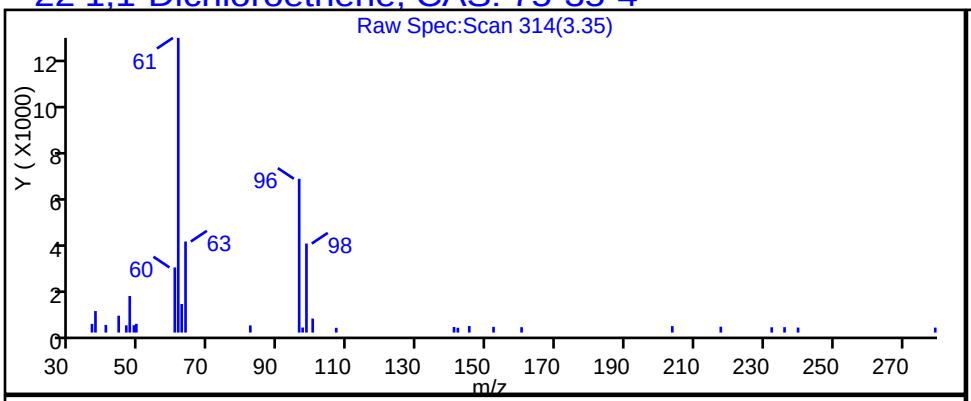


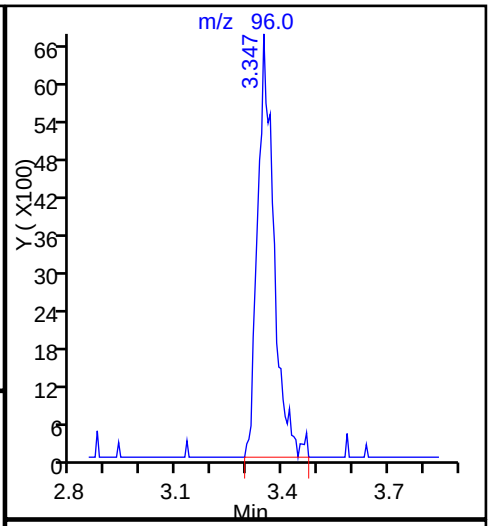
Report Date: 30-Sep-2015 08:40:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

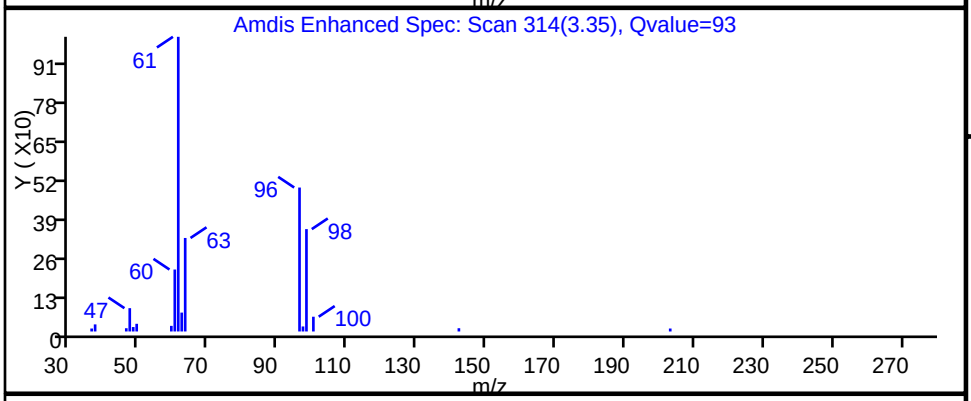
TestAmerica Pittsburgh

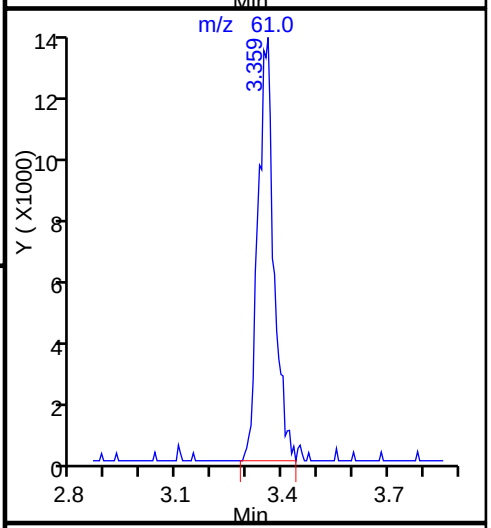
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D		
Injection Date:	29-Sep-2015 22:24:30	Instrument ID:	CHHP6
Lims ID:	180-47935-C-5	Lab Sample ID:	180-47935-5
Client ID:	HD-MW-114-0/1-0		
Operator ID:	001562	ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

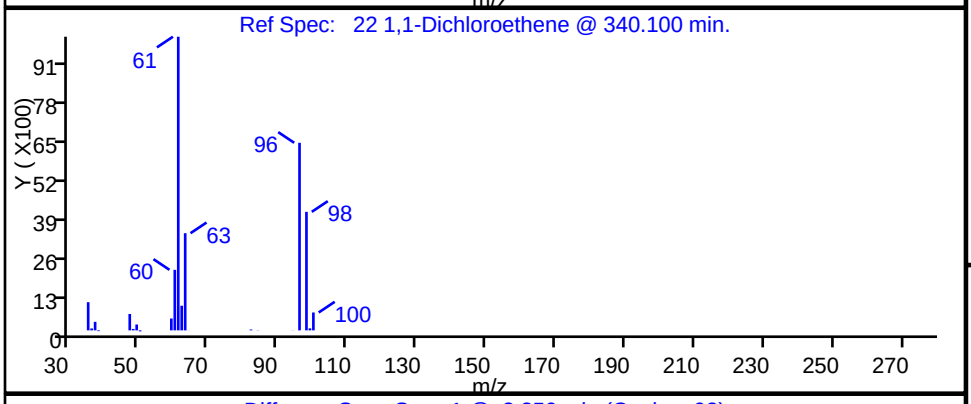
22 1,1-Dichloroethene, CAS: 75-35-4

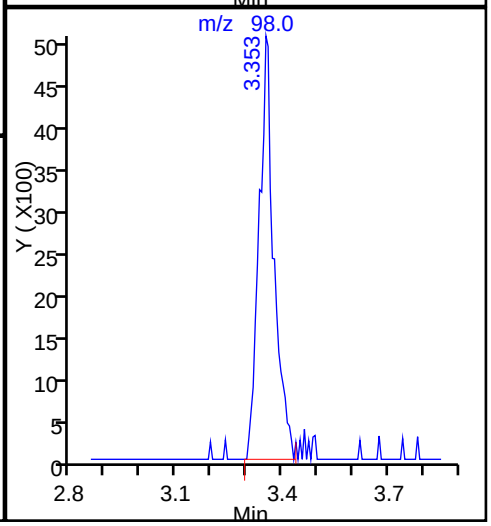


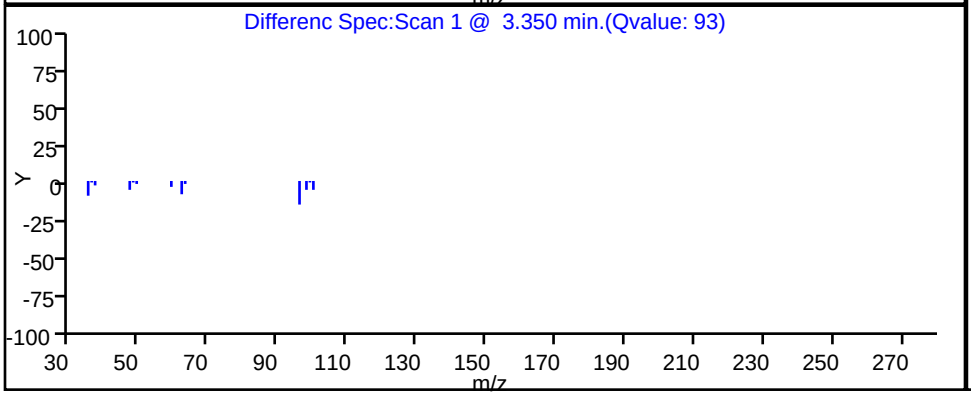










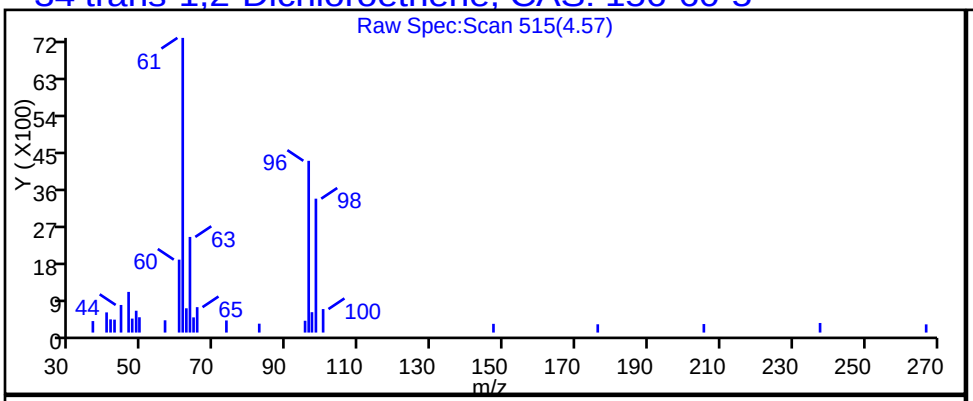


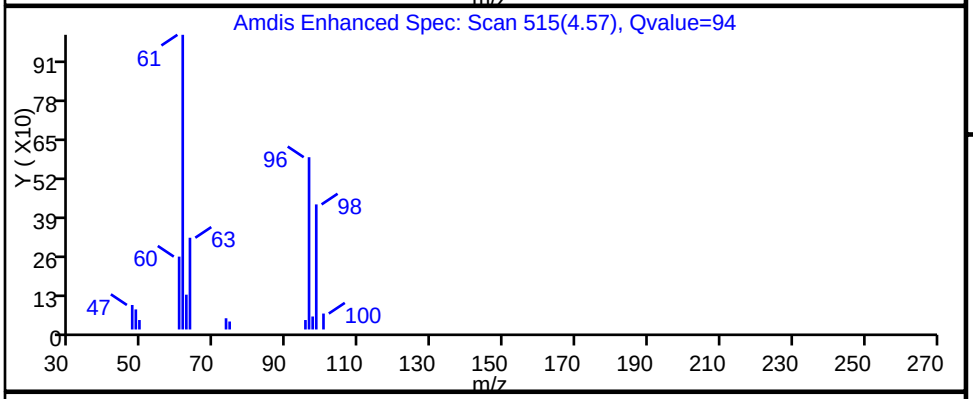
Report Date: 30-Sep-2015 08:40:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

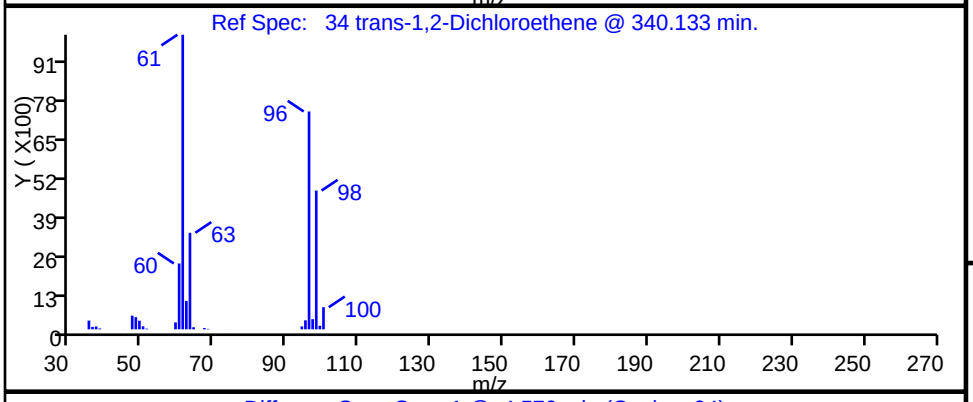
TestAmerica Pittsburgh

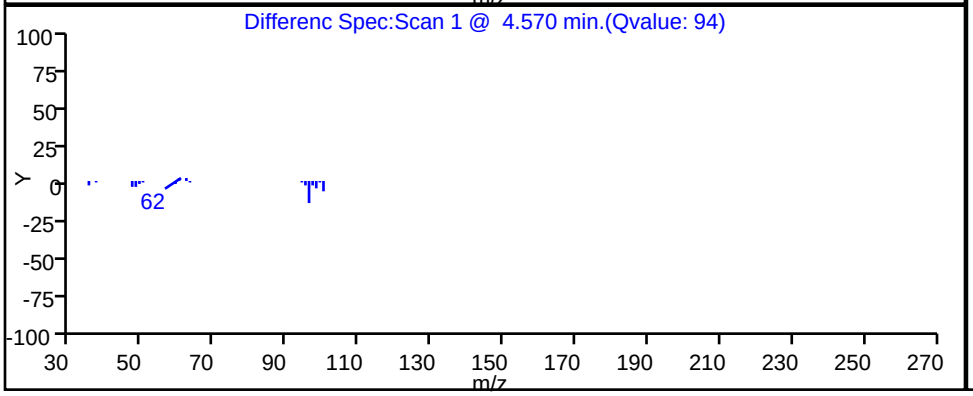
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D				
Injection Date:	29-Sep-2015 22:24:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

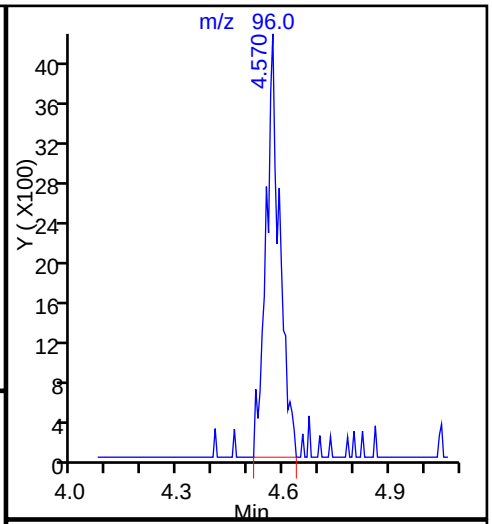
34 trans-1,2-Dichloroethene, CAS: 156-60-5

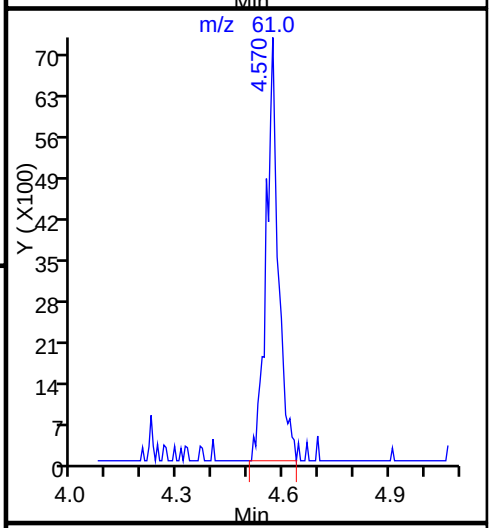


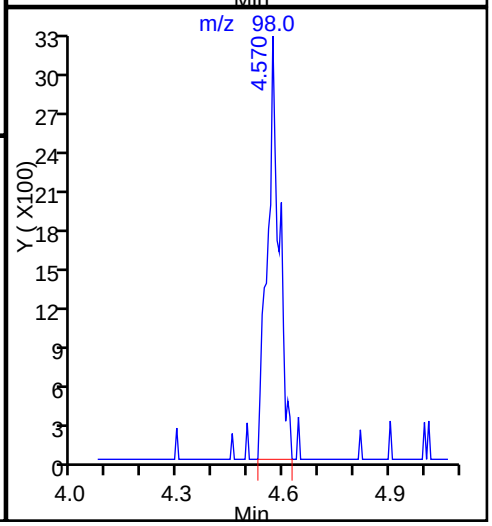












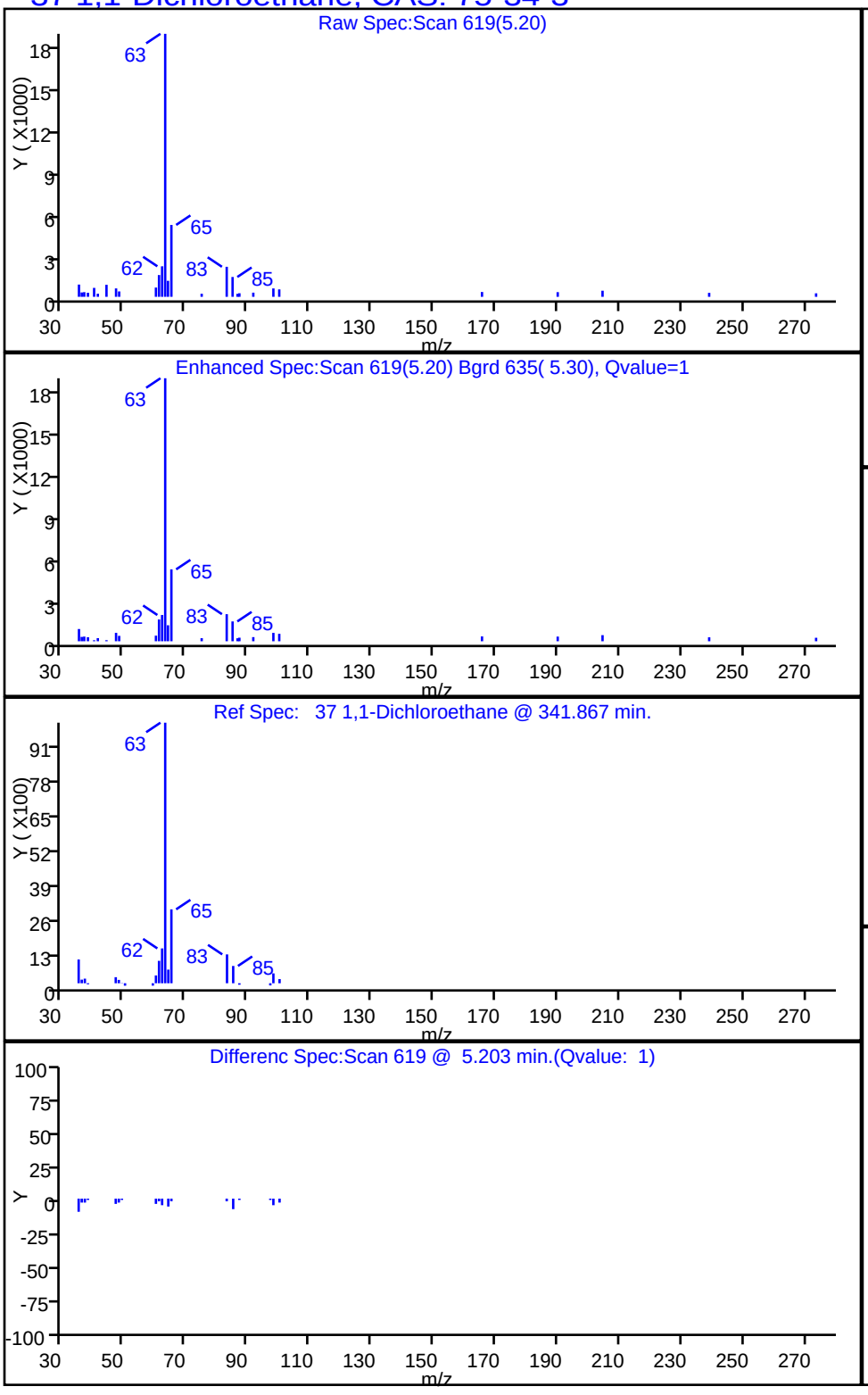
Report Date: 30-Sep-2015 08:40:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

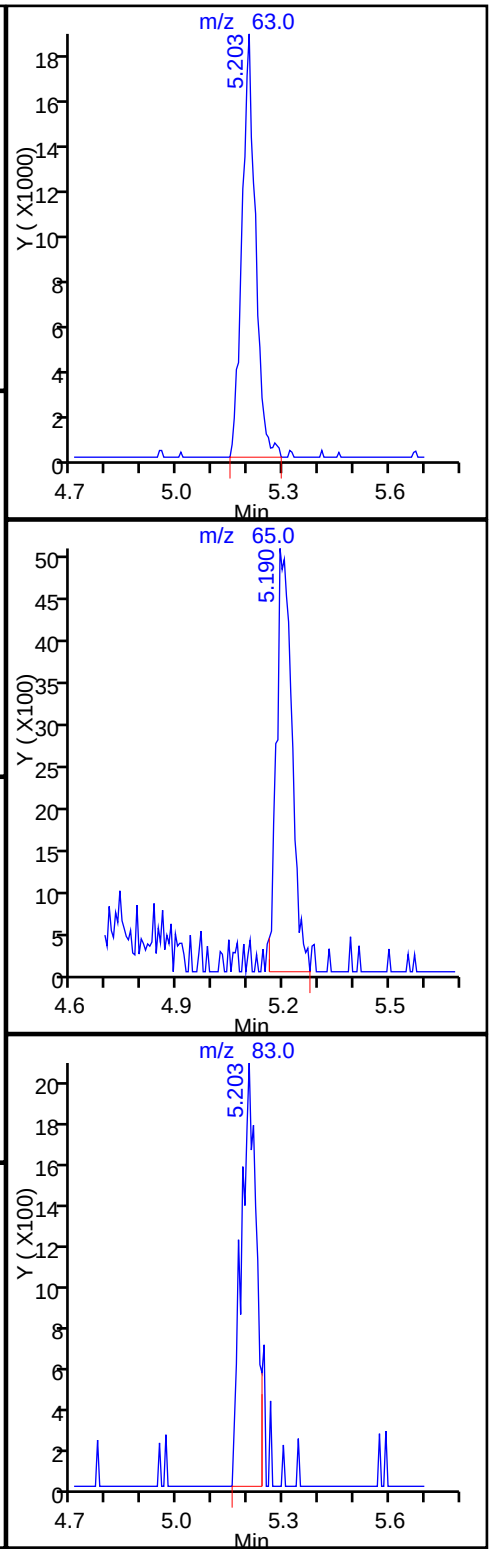
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D

Injection Date:	29-Sep-2015 22:24:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	28
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



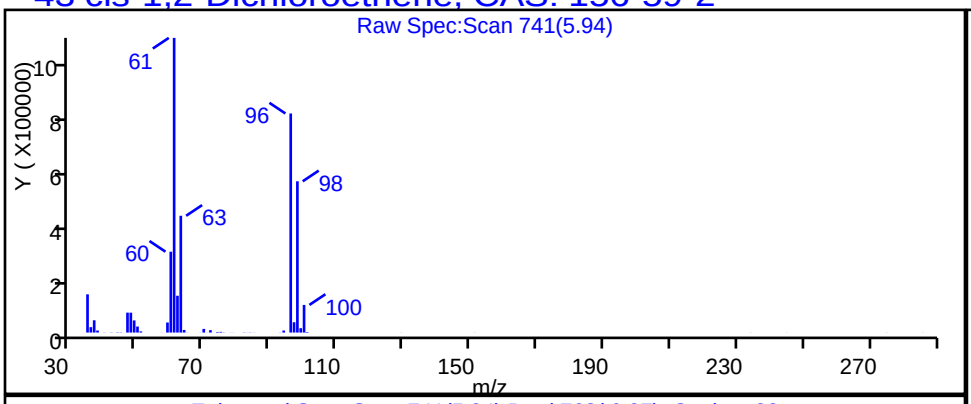


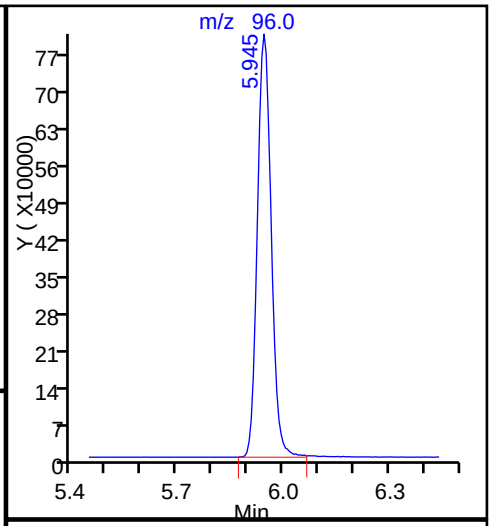
Report Date: 30-Sep-2015 08:40:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

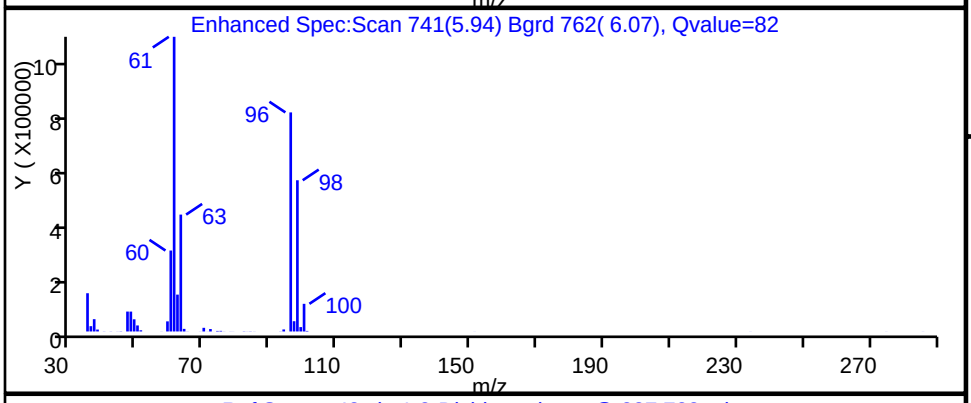
TestAmerica Pittsburgh

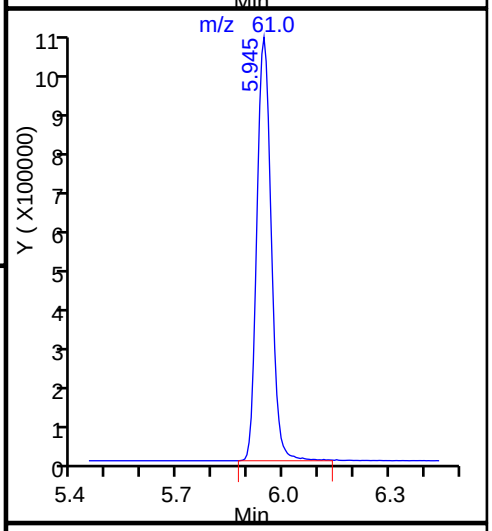
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D				
Injection Date:	29-Sep-2015 22:24:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

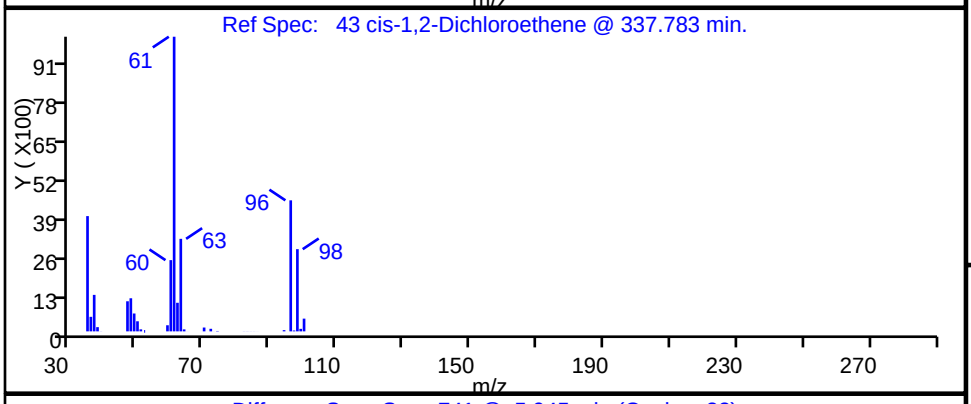
43 cis-1,2-Dichloroethene, CAS: 156-59-2

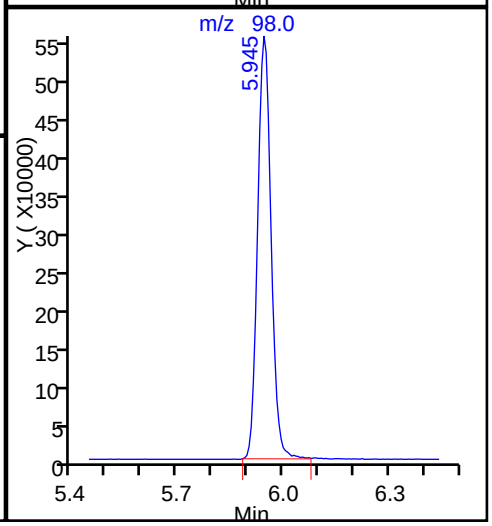


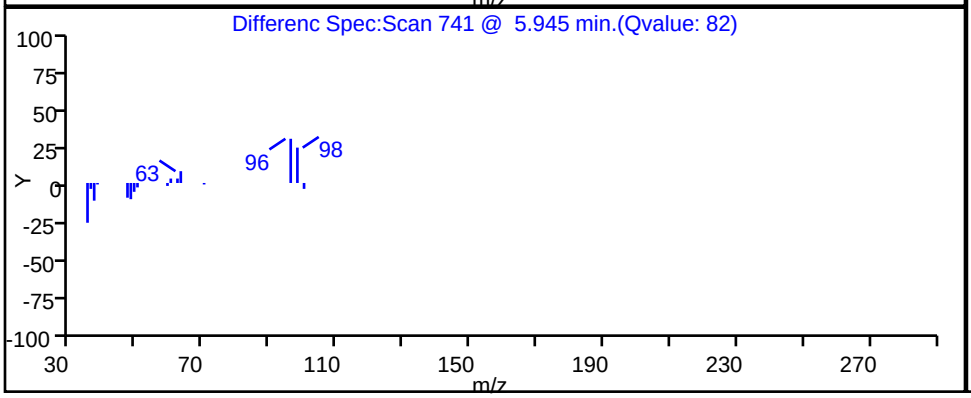












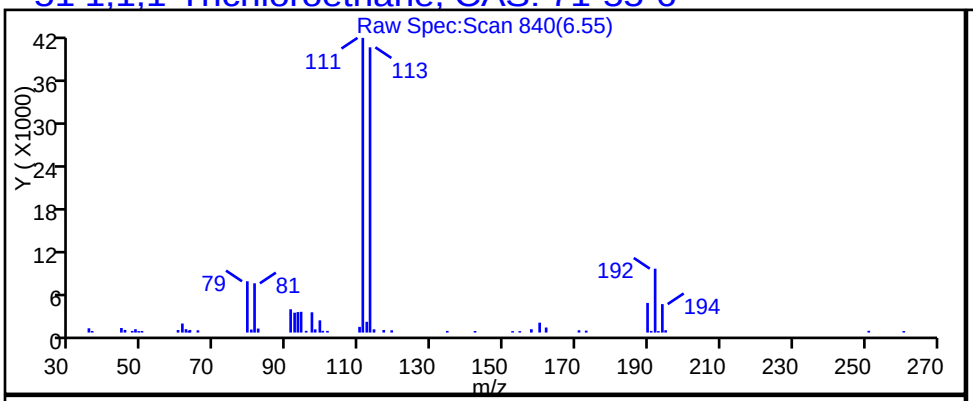
Report Date: 30-Sep-2015 08:40:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

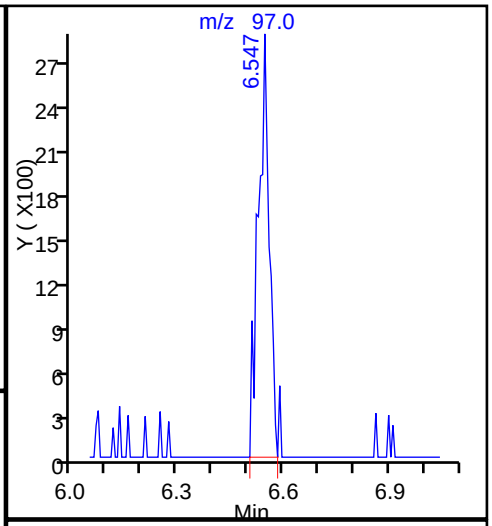
TestAmerica Pittsburgh

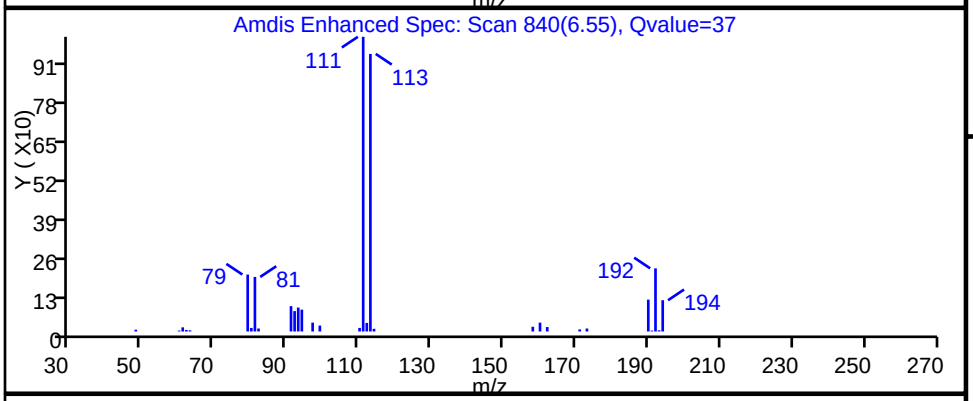
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D

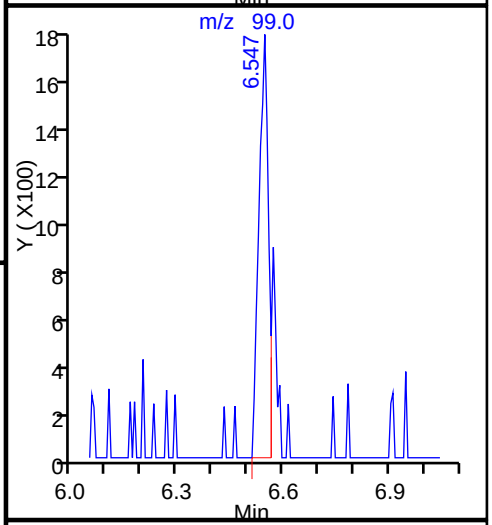
Injection Date:	29-Sep-2015 22:24:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

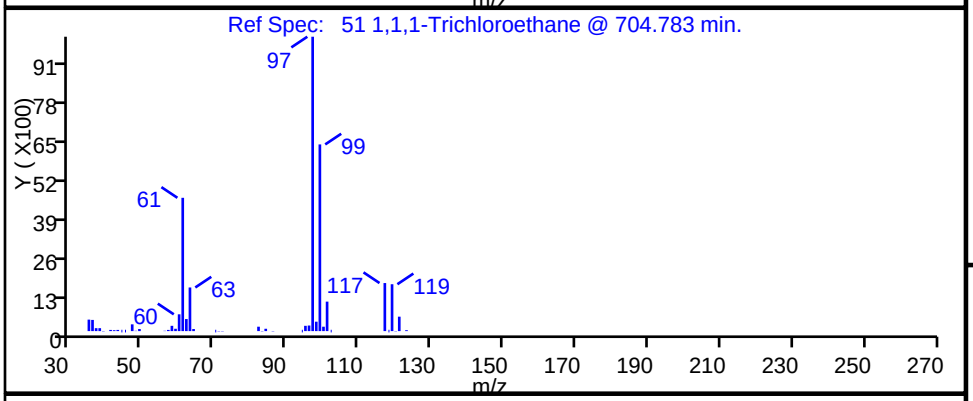
51 1,1,1-Trichloroethane, CAS: 71-55-6

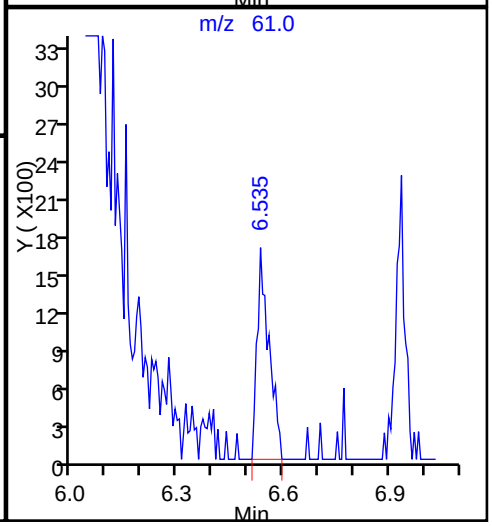


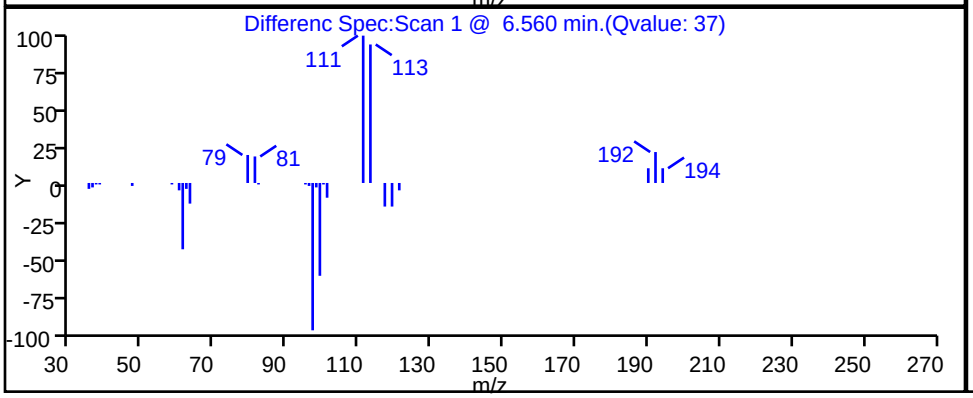










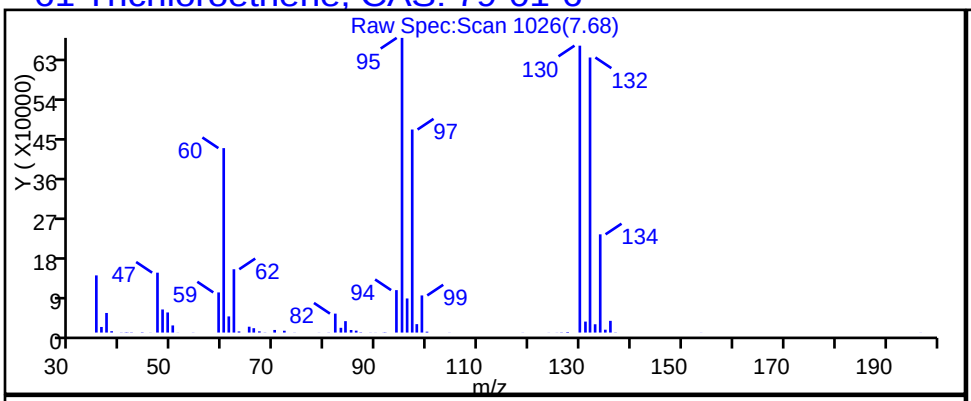


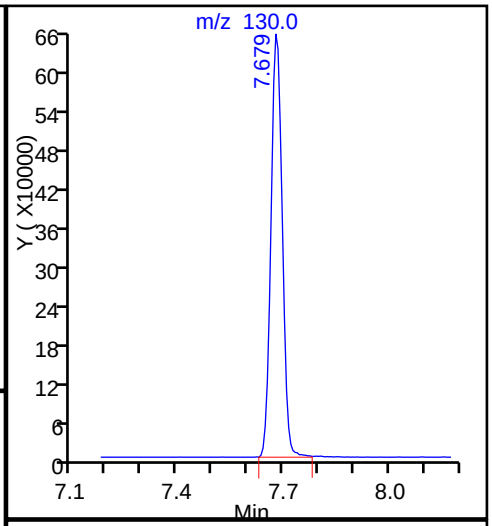
Report Date: 30-Sep-2015 08:40:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

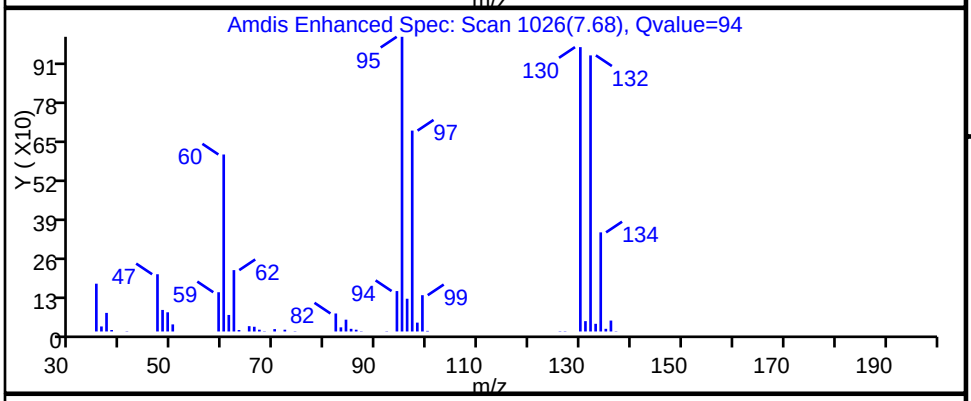
TestAmerica Pittsburgh

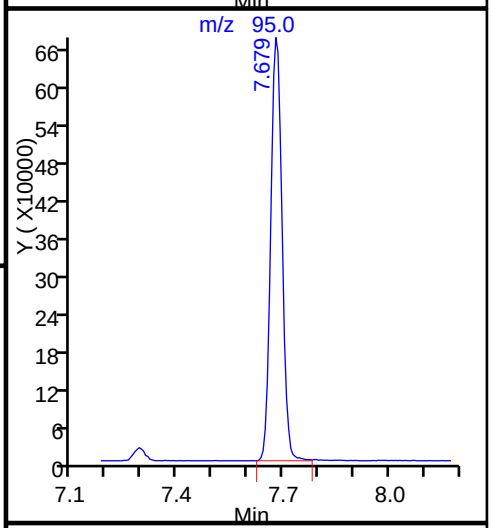
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D		
Injection Date:	29-Sep-2015 22:24:30	Instrument ID:	CHHP6
Lims ID:	180-47935-C-5	Lab Sample ID:	180-47935-5
Client ID:	HD-MW-114-0/1-0		
Operator ID:	001562	ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

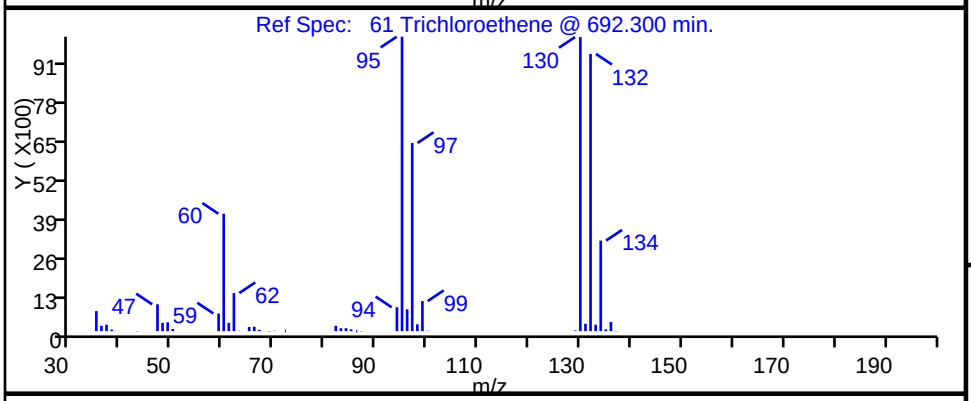
61 Trichloroethene, CAS: 79-01-6

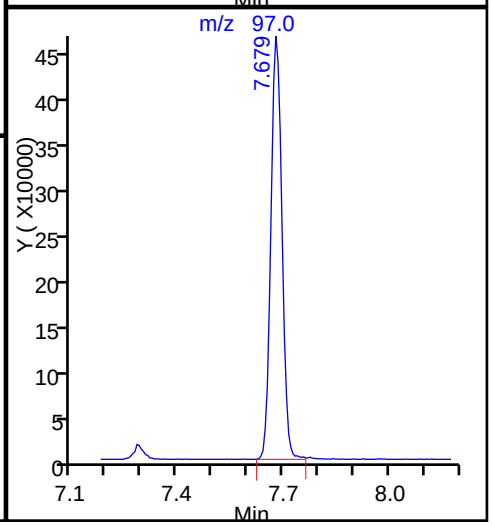


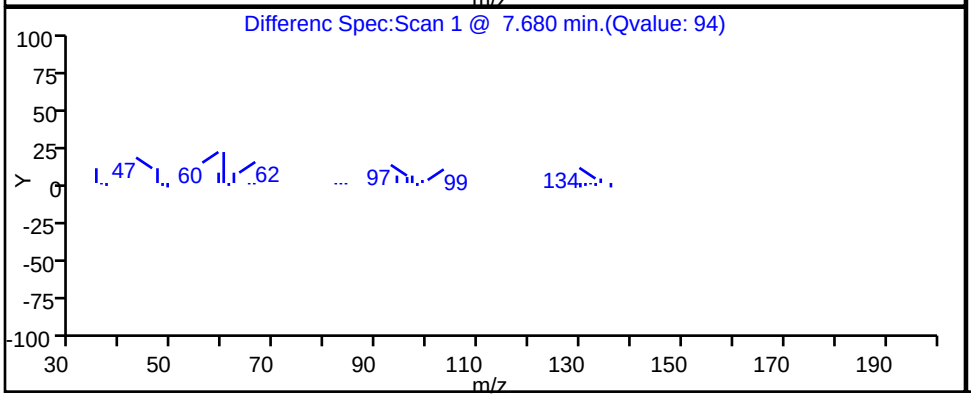












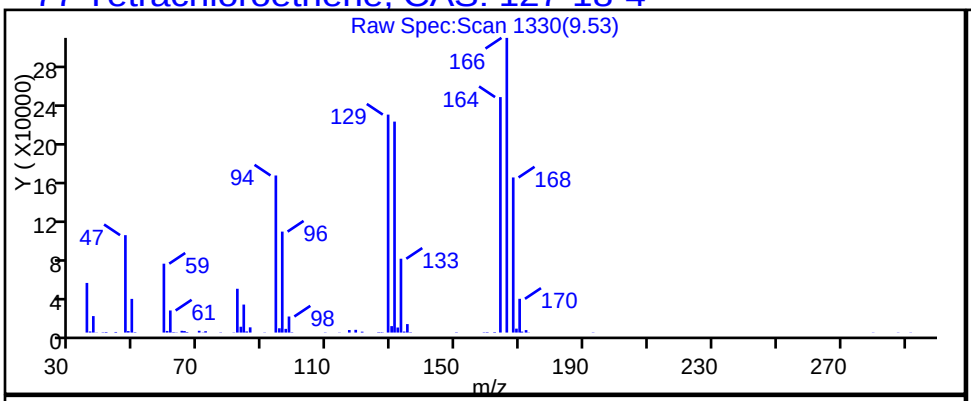
Report Date: 30-Sep-2015 08:40:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

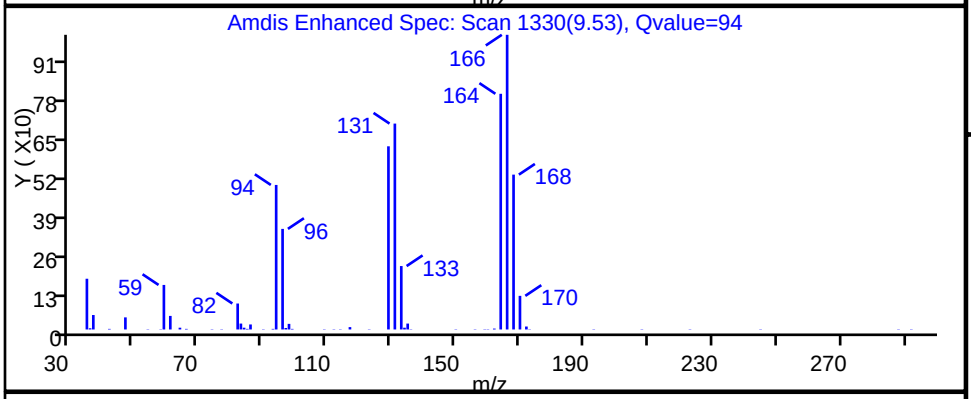
TestAmerica Pittsburgh

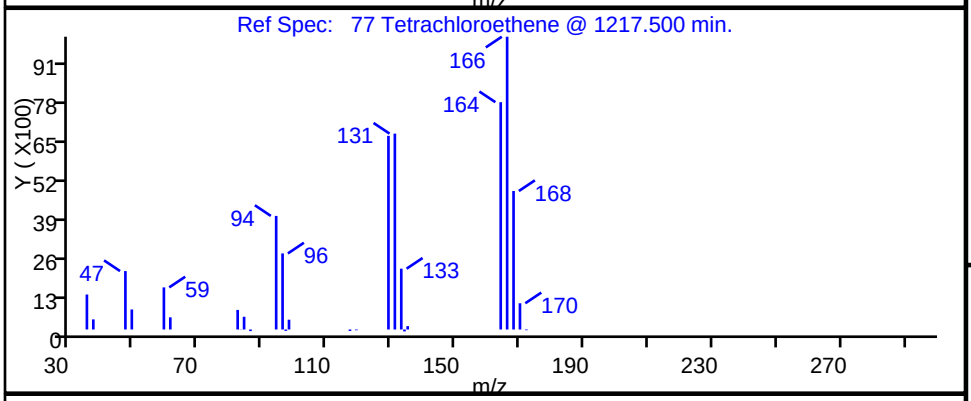
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D

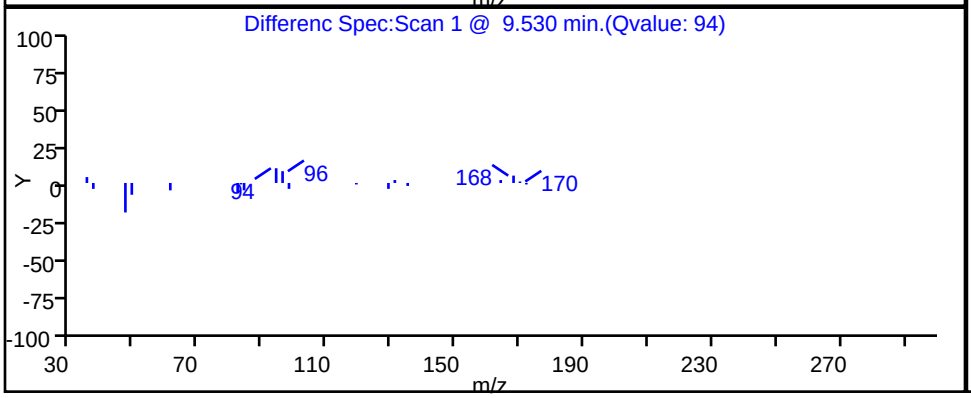
Injection Date:	29-Sep-2015 22:24:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

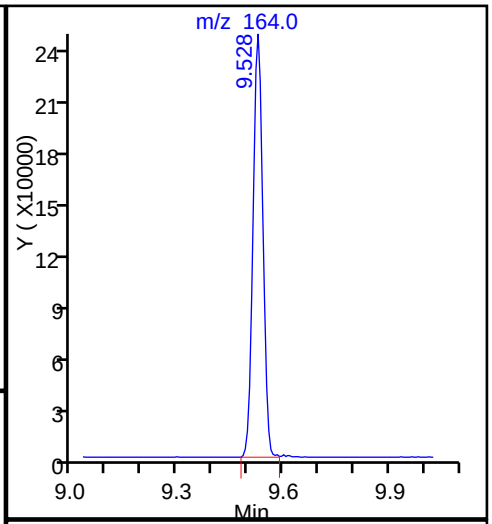
77 Tetrachloroethene, CAS: 127-18-4

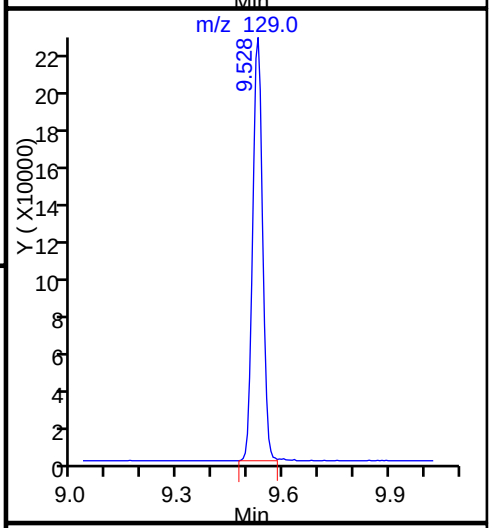


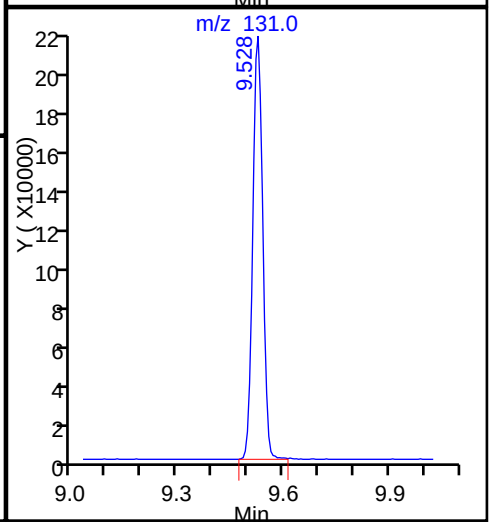












Manual Integration/User Assign Peak Report

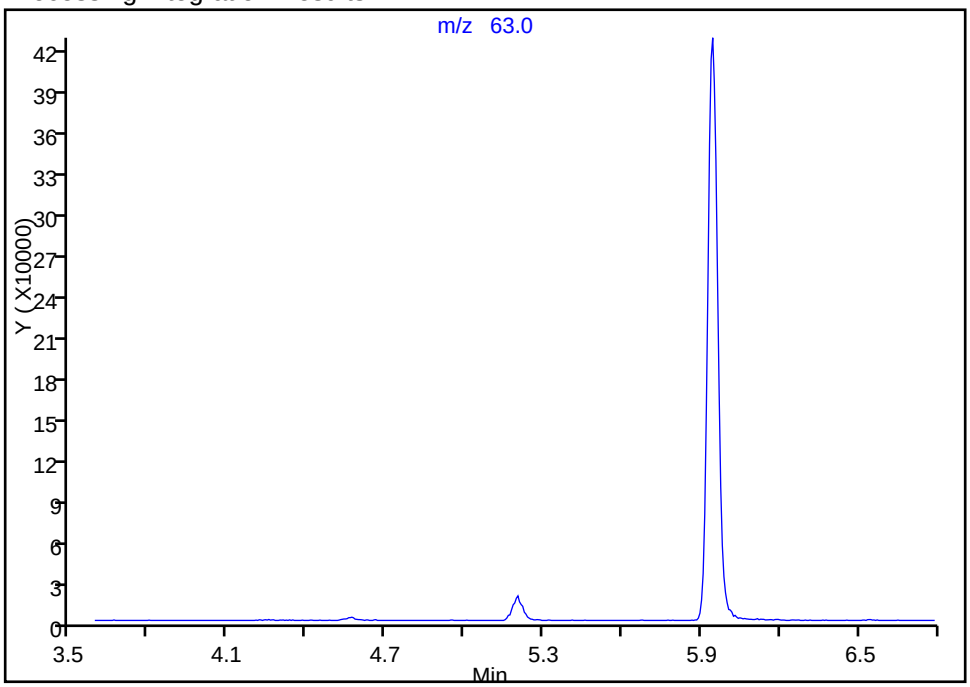
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929028.D				
Injection Date:	29-Sep-2015 22:24:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	28
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

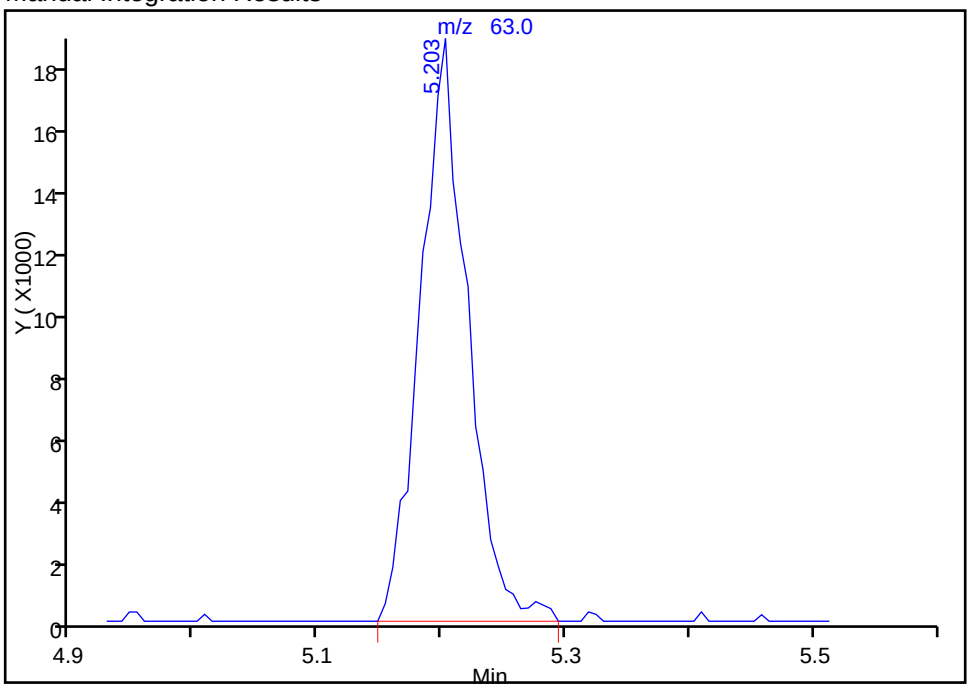
Not Detected
Expected RT: 5.19

Processing Integration Results



Manual Integration Results

RT: 5.20
Area: 48038
Amount: 9.693717
Amount Units: ng



Reviewer: fergusond, 30-Sep-2015 08:40:28
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-114-0/1-0 DL | Lab Sample ID: 180-47935-5 DL

Matrix: Water | Lab File ID: 60928020.D

Analysis Method: 8260C | Date Collected: 09/18/2015 12:20

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 19:13

Soil Aliquot Vol: | Dilution Factor: 100

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	100	U	100	28
75-01-4	Vinyl chloride	100	U	100	23
74-83-9	Bromomethane	100	U	100	31
75-00-3	Chloroethane	100	U	100	21
75-35-4	1,1-Dichloroethene	100	U	100	30
67-64-1	Acetone	500	U	500	250
75-15-0	Carbon disulfide	100	U	100	21
75-09-2	Methylene Chloride	100	U	100	13
156-60-5	trans-1,2-Dichloroethene	100	U	100	17
1634-04-4	Methyl tert-butyl ether	100	U	100	18
75-34-3	1,1-Dichloroethane	100	U	100	12
156-59-2	cis-1,2-Dichloroethene	1500		100	24
74-97-5	Bromochloromethane	100	U	100	18
78-93-3	2-Butanone (MEK)	500	U	500	55
67-66-3	Chloroform	100	U	100	17
71-55-6	1,1,1-Trichloroethane	100	U	100	29
56-23-5	Carbon tetrachloride	100	U	100	14
71-43-2	Benzene	100	U	100	11
107-06-2	1,2-Dichloroethane	100	U	100	21
79-01-6	Trichloroethene	1300		100	14
78-87-5	1,2-Dichloropropane	100	U	100	9.5
75-27-4	Bromodichloromethane	100	U	100	13
10061-01-5	cis-1,3-Dichloropropene	100	U	100	19
108-10-1	4-Methyl-2-pentanone (MIBK)	500	U	500	53
108-88-3	Toluene	100	U	100	15
10061-02-6	trans-1,3-Dichloropropene	100	U	100	15
79-00-5	1,1,2-Trichloroethane	100	U	100	20
127-18-4	Tetrachloroethene	540		100	15
591-78-6	2-Hexanone	500	U ^c	500	16
124-48-1	Dibromochloromethane	100	U	100	14
106-93-4	1,2-Dibromoethane (EDB)	100	U	100	18
108-90-7	Chlorobenzene	100	U	100	14
630-20-6	1,1,1,2-Tetrachloroethane	100	U	100	28
100-41-4	Ethylbenzene	100	U	100	23
1330-20-7	Xylenes, Total	300	U	300	49
100-42-5	Styrene	100	U	100	9.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-114-0/1-0 DL | Lab Sample ID: 180-47935-5 DL

Matrix: Water | Lab File ID: 60928020.D

Analysis Method: 8260C | Date Collected: 09/18/2015 12:20

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 19:13

Soil Aliquot Vol: | Dilution Factor: 100

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	*Bromoform*	*100*	*U*	*100*	*19*
79-34-5	*1,1,2,2-Tetrachloroethane*	*100*	*U*	*100*	*20*
107-13-1	*Acrylonitrile*	*2000*	*U*	*2000*	*55*
123-91-1	*1,4-Dioxane*	*20000*	*U*	*20000*	*3400*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-135
2037-26-5	Toluene-d8 (Surr)	108		71-118
460-00-4	4-Bromofluorobenzene (Surr)	98		70-118
1868-53-7	Dibromofluoromethane (Surr)	99		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928020.D
Lims ID: 180-47935-A-5 Lab Sample ID: 180-47935-5
Client ID: HD-MW-114-0/1-0
Sample Type: Client
Inject. Date: 28-Sep-2015 19:13:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 180-47935-A-5, 100x
Misc. Info.: 180-0008724-020
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 08:34:01 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 08:34:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.232	4.241	-0.009	88	195200	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.283	0.009	97	529423	50.0	
* 3 Chlorobenzene-d5	119	10.394	10.398	-0.004	92	114584	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.746	0.003	98	196318	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.547	0.009	93	121106	49.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.930	0.003	71	202320	51.4	
$ 7 Toluene-d8 (Surr)	98	8.940	8.938	0.002	94	489097	54.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.584	0.003	84	197436	49.2	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62	1.896	1.905	-0.009	39	3118	0.9162	
15 Bromomethane	94		2.240				ND	
16 Chloroethane	64		2.380				ND	
22 1,1-Dichloroethene	96	3.344	3.341	0.003	1	2628	0.9861	M
24 Acetone	43		3.426				ND	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.126				ND	
33 Acrylonitrile	53		4.503				ND	
34 trans-1,2-Dichloroethene	96		4.558				ND	
35 Methyl tert-butyl ether	73		4.564				ND	
37 1,1-Dichloroethane	63		5.190				ND	
43 cis-1,2-Dichloroethene	96	5.947	5.933	0.014	83	257462	77.0	
44 2-Butanone (MEK)	43		5.951				ND	
48 Chlorobromomethane	128		6.225				ND	
50 Chloroform	83		6.371				ND	
51 1,1,1-Trichloroethane	97		6.535				ND	
53 Carbon tetrachloride	117		6.717				ND	
56 Benzene	78		6.942				ND	
57 1,2-Dichloroethane	62		7.015				ND	
61 Trichloroethene	130	7.681	7.679	0.002	95	167064	64.9	
64 1,2-Dichloropropane	63		7.952				ND	
65 1,4-Dioxane	88		8.038				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.232				ND	
71 cis-1,3-Dichloropropene	75		8.676				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
73 Toluene	91	9.019	9.011	0.008	1	3885	0.3286	M
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97		9.449				ND	
77 Tetrachloroethene	164	9.530	9.528	0.002	95	54254	26.9	
79 2-Hexanone	43		9.656				ND	
81 Chlorodibromomethane	129		9.820				ND	
82 Ethylene Dibromide	107		9.936				ND	
84 Chlorobenzene	112		10.428				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.659				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				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

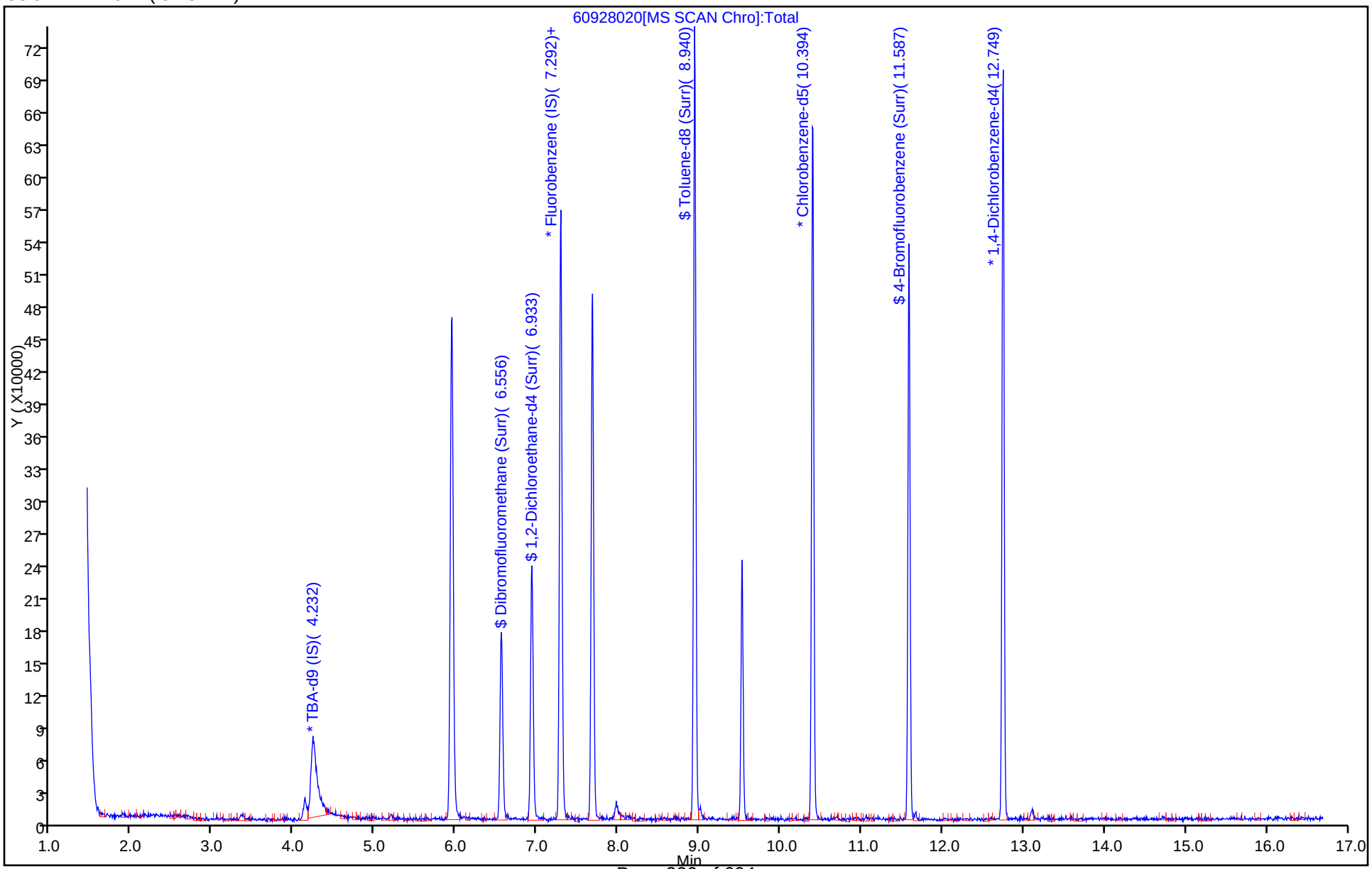
Report Date: 29-Sep-2015 08:34:02 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928020.D

Injection Date:	28-Sep-2015 19:13:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-A-5	Lab Sample ID:	180-47935-5	Worklist Smp#:	20
Client ID:	HD-MW-114-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	20
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)

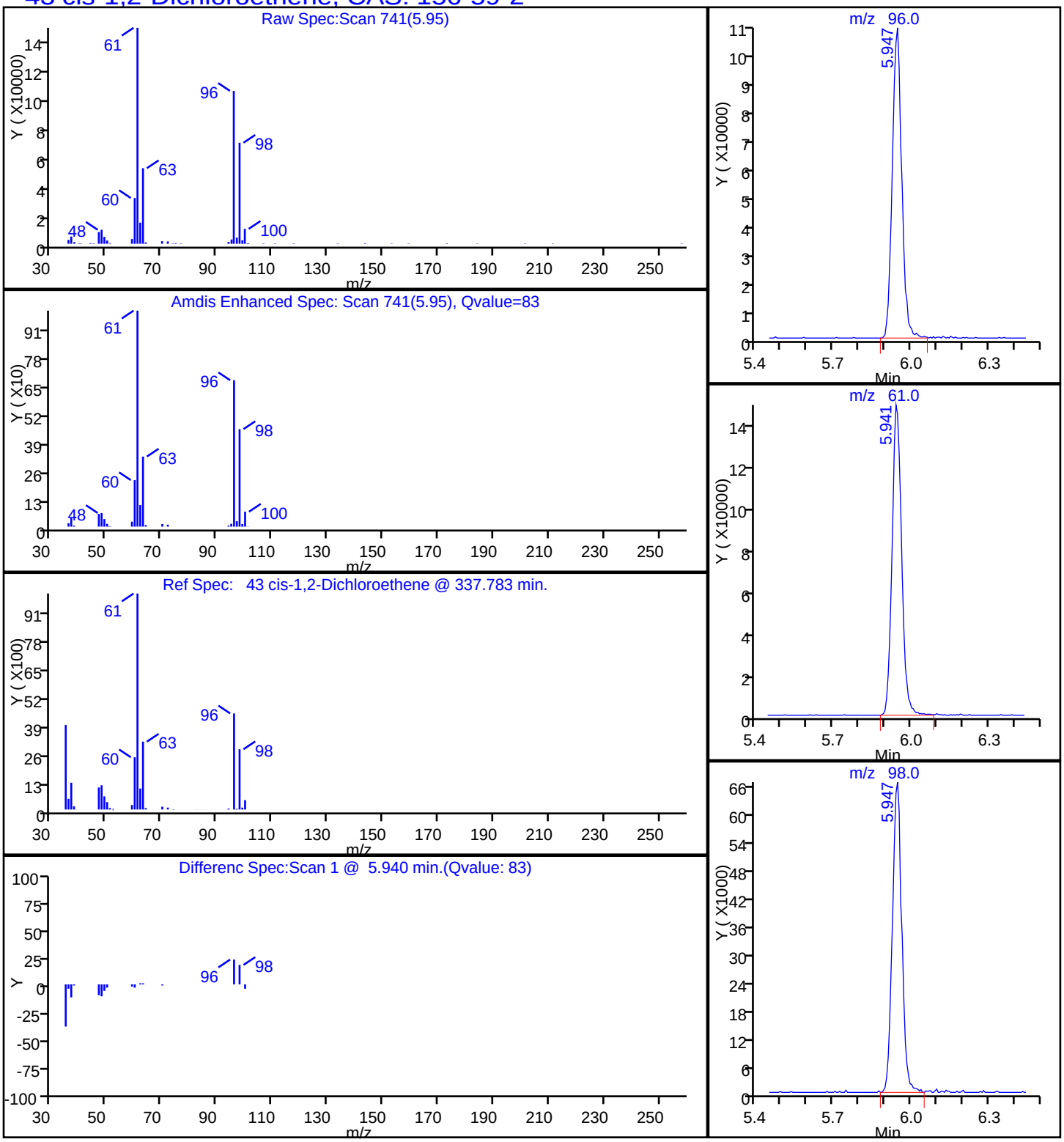


Report Date: 29-Sep-2015 08:34:02 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928020.D				
Injection Date:	28-Sep-2015 19:13:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-A-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
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



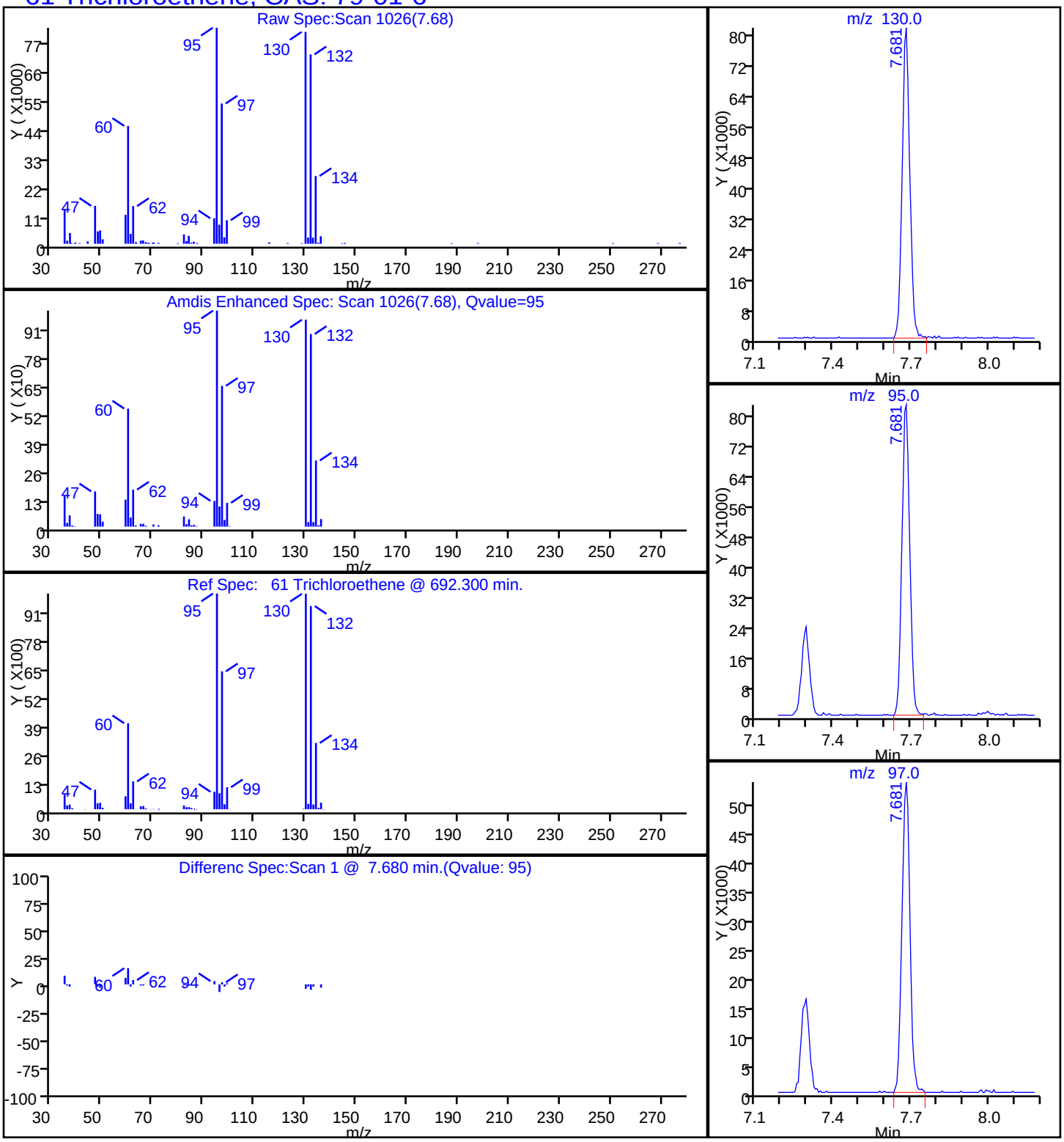
Report Date: 29-Sep-2015 08:34:02 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928020.D

Injection Date:	28-Sep-2015 19:13:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-A-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

61 Trichloroethene, CAS: 79-01-6

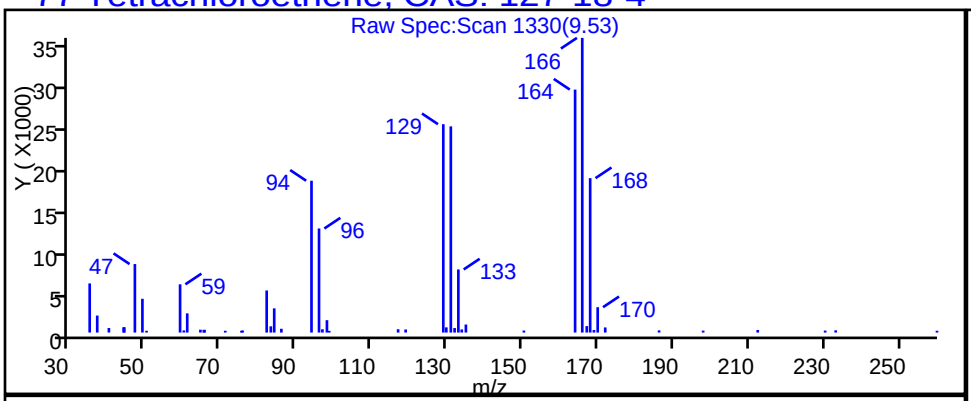


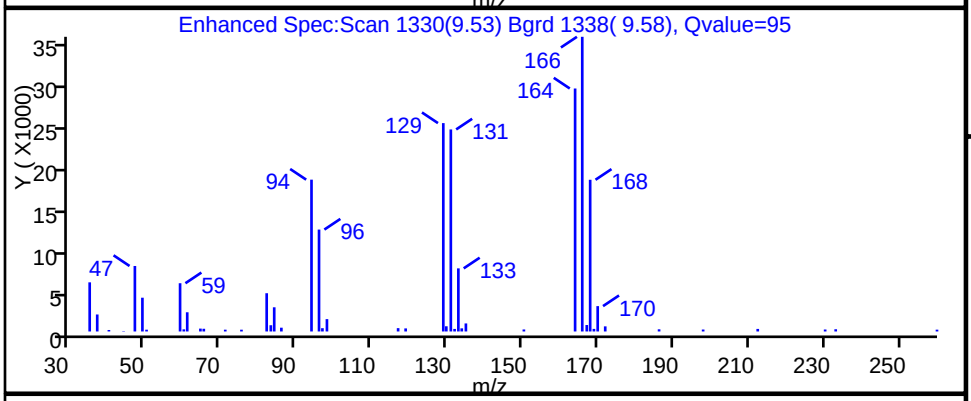
Report Date: 29-Sep-2015 08:34:02 Chrom Revision: 2.2 08-Sep-2015 13:41:46

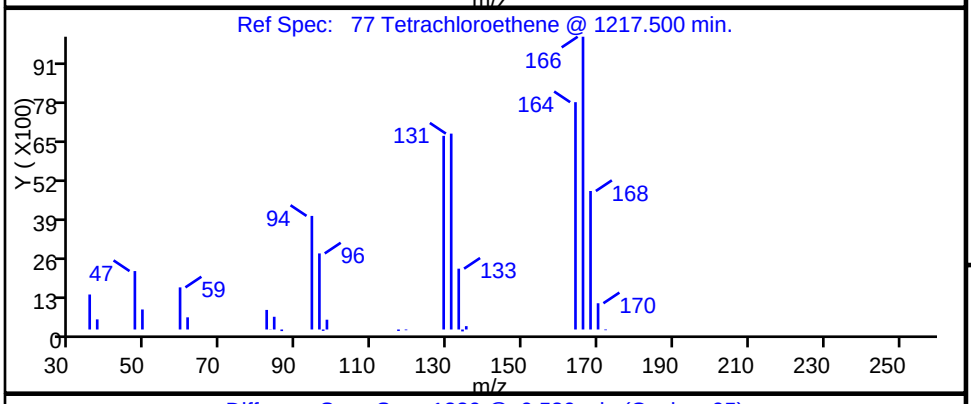
TestAmerica Pittsburgh

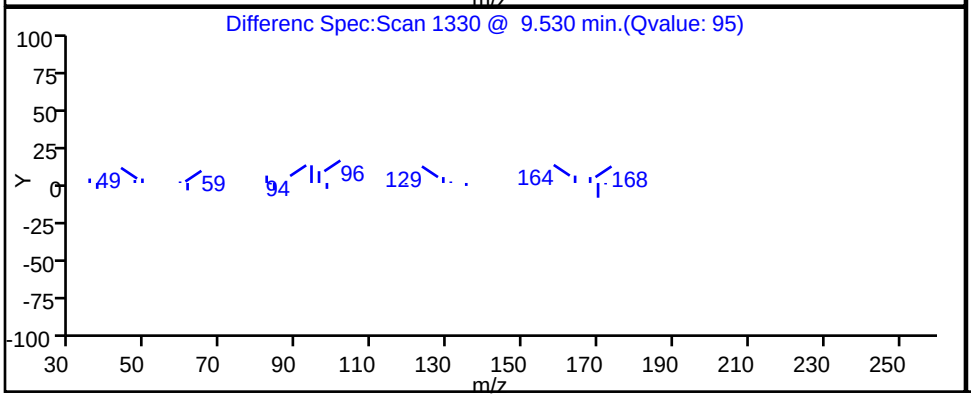
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928020.D				
Injection Date:	28-Sep-2015 19:13:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-A-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

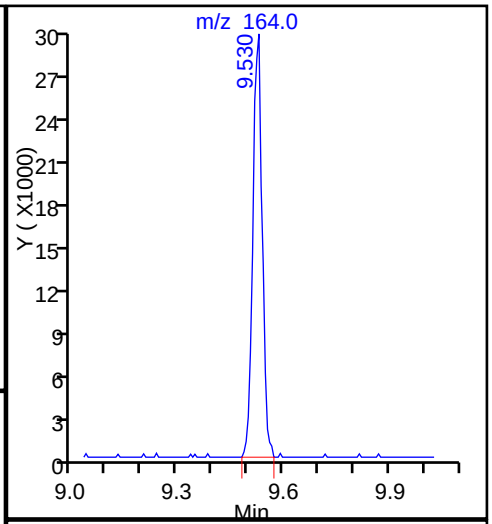
77 Tetrachloroethene, CAS: 127-18-4

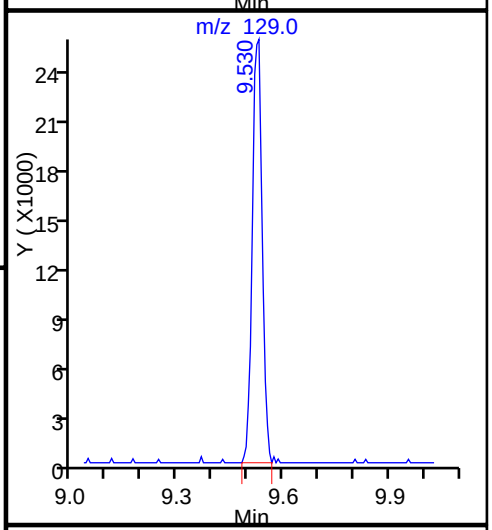


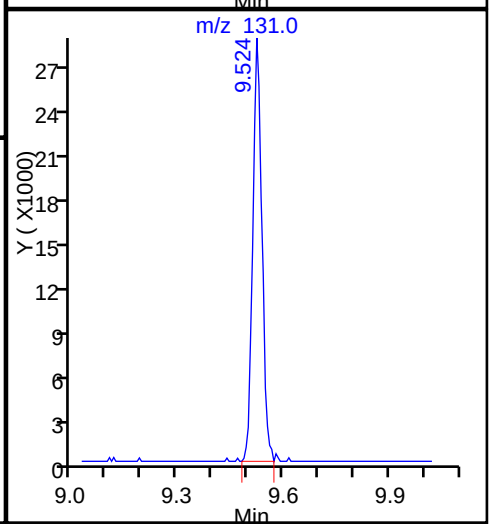












Manual Integration/User Assign Peak Report

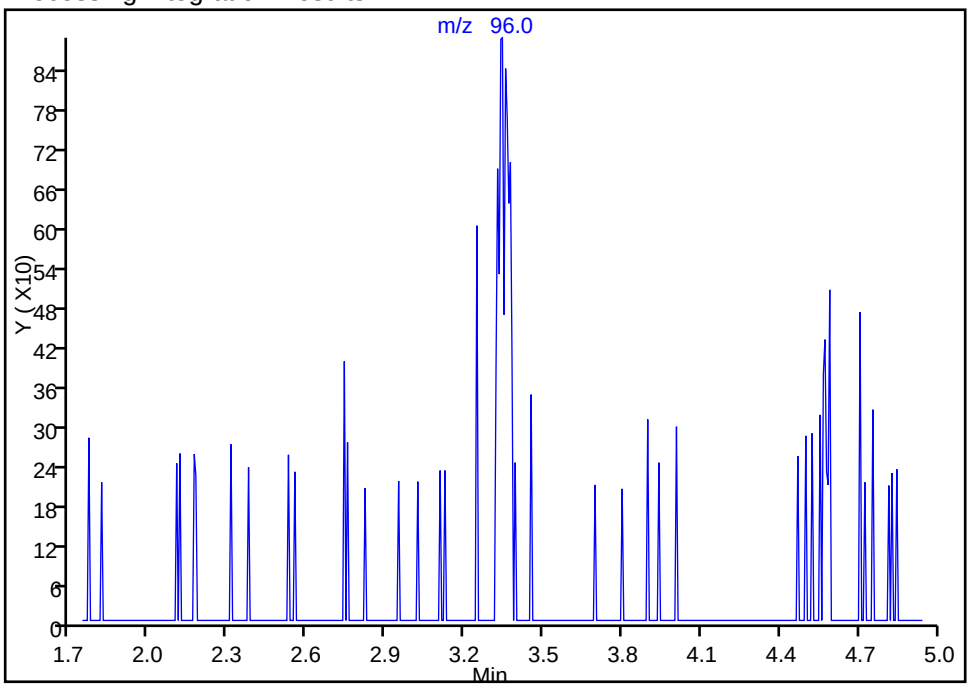
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928020.D				
Injection Date:	28-Sep-2015 19:13:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-A-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
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

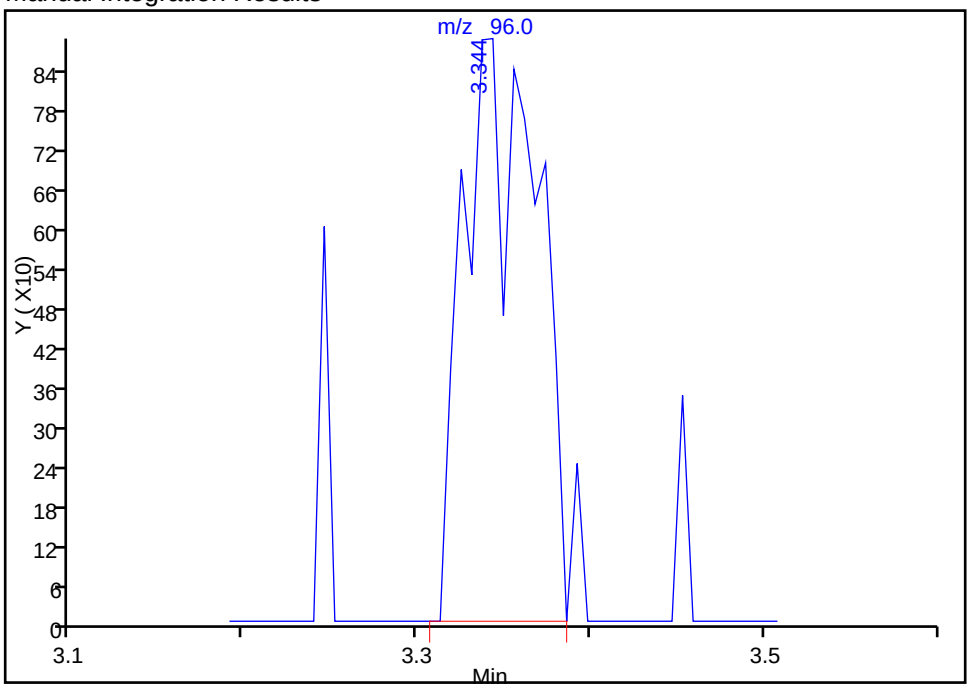
Not Detected
Expected RT: 3.34

Processing Integration Results



Manual Integration Results

RT: 3.34
Area: 2628
Amount: 0.986137
Amount Units: ng



Reviewer: fergusond, 29-Sep-2015 08:34:01
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

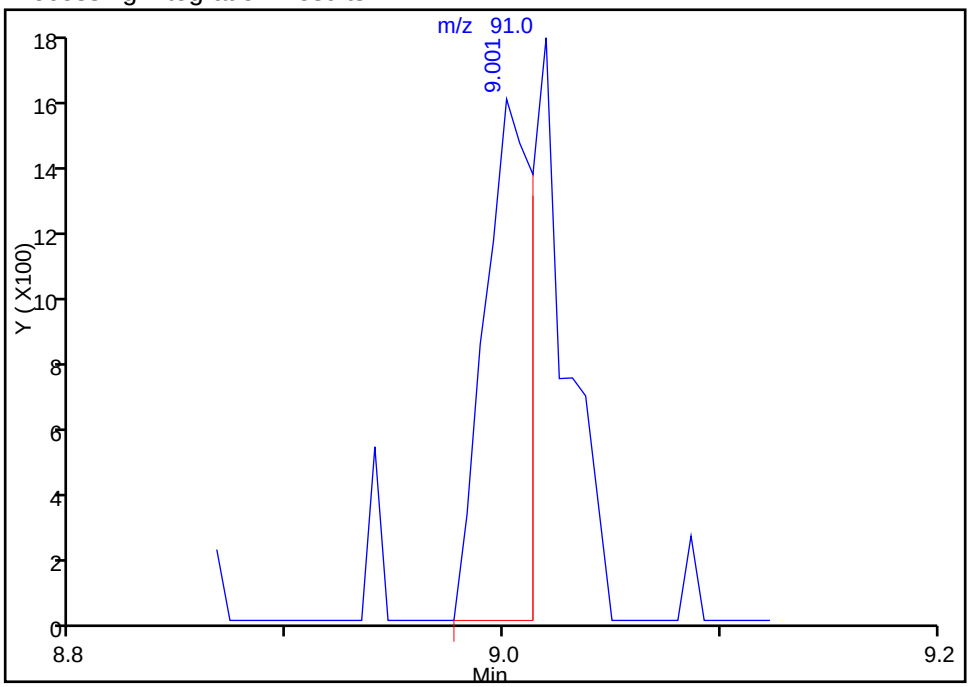
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928020.D				
Injection Date:	28-Sep-2015 19:13:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-A-5	Lab Sample ID:	180-47935-5		
Client ID:	HD-MW-114-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

73 Toluene, CAS: 108-88-3

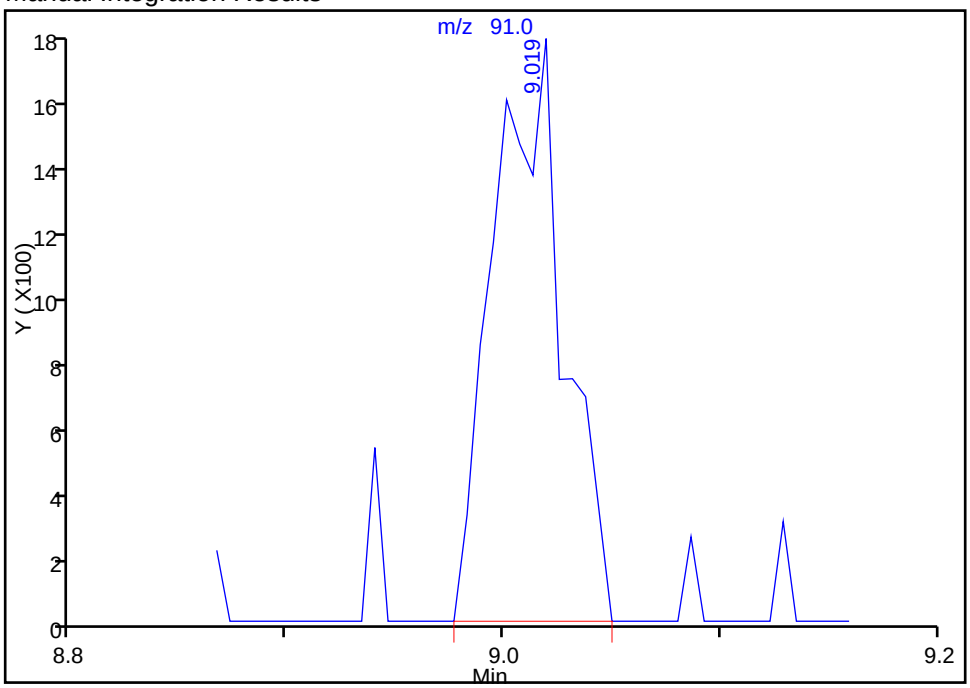
Processing Integration Results

RT: 9.00
Area: 2374
Amount: 0.200795
Amount Units: ng



Manual Integration Results

RT: 9.02
Area: 3885
Amount: 0.328596
Amount Units: ng



Reviewer: fergusond, 29-Sep-2015 08:34:01
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-46-0/1-0 | Lab Sample ID: 180-47935-6

Matrix: Water | Lab File ID: 60929012.D

Analysis Method: 8260C | Date Collected: 09/18/2015 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2015 15:55

Soil Aliquot Vol: | Dilution Factor: 5

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

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

Analysis Batch No.: 155230 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	5.0	U	5.0	1.4
75-01-4	Vinyl chloride	5.0	U	5.0	1.1
74-83-9	Bromomethane	5.0	U ^c	5.0	1.6
75-00-3	Chloroethane	5.0	U	5.0	1.1
75-35-4	1,1-Dichloroethene	4.5	J	5.0	1.5
67-64-1	Acetone	25	U	25	13
75-15-0	Carbon disulfide	5.0	U	5.0	1.1
75-09-2	Methylene Chloride	5.0	U	5.0	0.63
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.85
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.92
75-34-3	1,1-Dichloroethane	4.2	J	5.0	0.58
156-59-2	cis-1,2-Dichloroethene	84		5.0	1.2
74-97-5	Bromochloromethane	5.0	U	5.0	0.90
78-93-3	2-Butanone (MEK)	25	U	25	2.7
67-66-3	Chloroform	5.0	U	5.0	0.85
71-55-6	1,1,1-Trichloroethane	10		5.0	1.4
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.68
71-43-2	Benzene	5.0	U	5.0	0.53
107-06-2	1,2-Dichloroethane	5.0	U	5.0	1.1
79-01-6	Trichloroethene	65		5.0	0.72
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.47
75-27-4	Bromodichloromethane	5.0	U	5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.93
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	2.6
108-88-3	Toluene	5.0	U	5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.74
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	1.0
127-18-4	Tetrachloroethene	35		5.0	0.74
591-78-6	2-Hexanone	25	U	25	0.80
124-48-1	Dibromochloromethane	5.0	U	5.0	0.68
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	5.0	0.90
108-90-7	Chlorobenzene	5.0	U	5.0	0.68
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.4
100-41-4	Ethylbenzene	5.0	U	5.0	1.1
1330-20-7	Xylenes, Total	15	U	15	2.4
100-42-5	Styrene	5.0	U	5.0	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-46-0/1-0 | Lab Sample ID: 180-47935-6

Matrix: Water | Lab File ID: 60929012.D

Analysis Method: 8260C | Date Collected: 09/18/2015 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2015 15:55

Soil Aliquot Vol: | Dilution Factor: 5

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

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

Analysis Batch No.: 155230 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	5.0	U	5.0	0.96
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.0
107-13-1	Acrylonitrile	100	U	100	2.7
123-91-1	1,4-Dioxane	1000	U	1000	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		64-135
2037-26-5	Toluene-d8 (Surr)	106		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	96		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929012.D
Lims ID: 180-47935-C-6 Lab Sample ID: 180-47935-6
Client ID: HD-MW-46-0/1-0
Sample Type: Client
Inject. Date: 29-Sep-2015 15:55:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 180-47935-C-6, 5x
Misc. Info.: 180-0008741-012
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 30-Sep-2015 08:12:04 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: XAWRK004

First Level Reviewer: fergusond Date: 30-Sep-2015 08:12:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.245	4.242	0.003	87	186181	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.283	0.009	97	522559	50.0	
* 3 Chlorobenzene-d5	119	10.395	10.398	-0.003	92	118912	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.746	0.003	98	187145	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.553	0.003	92	116021	48.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.934	6.931	0.003	71	195547	50.4	
$ 7 Toluene-d8 (Surr)	98	8.941	8.938	0.003	94	496987	53.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.584	0.003	84	193668	46.5	
12 Chloromethane	50	1.769	1.766	0.003	44	1944	0.6233	M
13 Vinyl chloride	62		1.900				ND	
15 Bromomethane	94		2.246				ND	
16 Chloroethane	64		2.380				ND	
22 1,1-Dichloroethene	96	3.350	3.335	0.015	93	11794	4.48	
24 Acetone	43		3.420				ND	
26 Carbon disulfide	76		3.627				ND	
31 Methylene Chloride	84		4.120				ND	
33 Acrylonitrile	53		4.503				ND	
34 trans-1,2-Dichloroethene	96	4.567	4.558	0.009	12	1293	0.4259	
35 Methyl tert-butyl ether	73		4.570				ND	
37 1,1-Dichloroethane	63	5.200	5.191	0.009	65	22994	4.23	
43 cis-1,2-Dichloroethene	96	5.948	5.939	0.009	85	278057	84.2	
44 2-Butanone (MEK)	43		5.945				ND	
48 Chlorobromomethane	128		6.231				ND	
50 Chloroform	83		6.371				ND	
51 1,1,1-Trichloroethane	97	6.538	6.541	-0.003	73	40600	10.2	
53 Carbon tetrachloride	117		6.712				ND	
56 Benzene	78		6.937				ND	
57 1,2-Dichloroethane	62		7.016				ND	
61 Trichloroethene	130	7.682	7.679	0.003	94	165192	65.0	
64 1,2-Dichloropropane	63		7.953				ND	
65 1,4-Dioxane	88		8.032				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.226				ND	
71 cis-1,3-Dichloropropene	75		8.677				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.823				ND	
73 Toluene	91		9.011				ND	
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97		9.449				ND	
77 Tetrachloroethene	164	9.525	9.522	0.003	96	72892	34.8	
79 2-Hexanone	43		9.662				ND	
81 Chlorodibromomethane	129		9.826				ND	
82 Ethylene Dibromide	107		9.942				ND	
84 Chlorobenzene	112		10.429				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.660				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				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

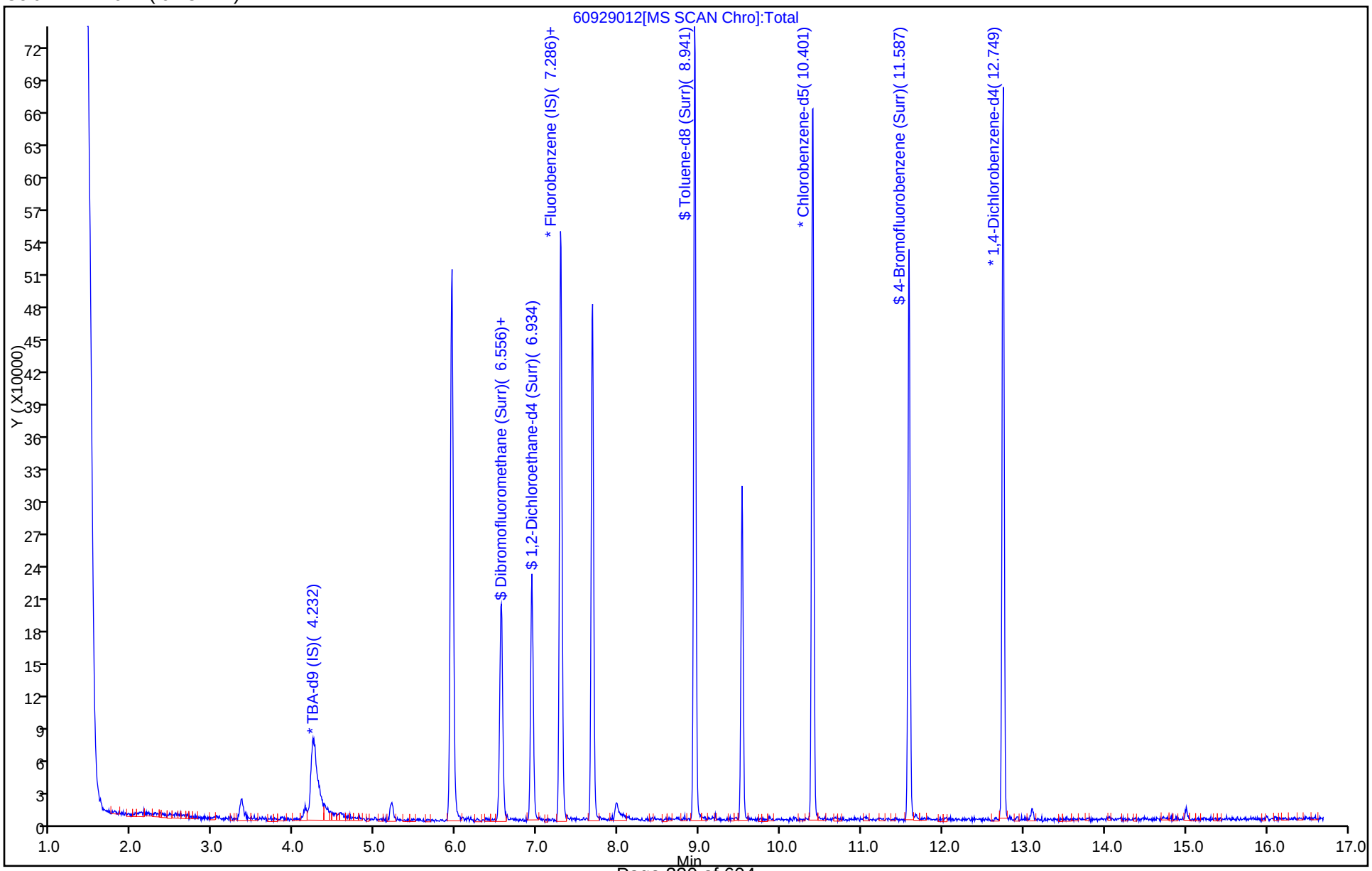
Report Date: 30-Sep-2015 08:12:04 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929012.D

Injection Date:	29-Sep-2015 15:55:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-C-6	Lab Sample ID:	180-47935-6	Worklist Smp#:	12
Client ID:	HD-MW-46-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	11
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



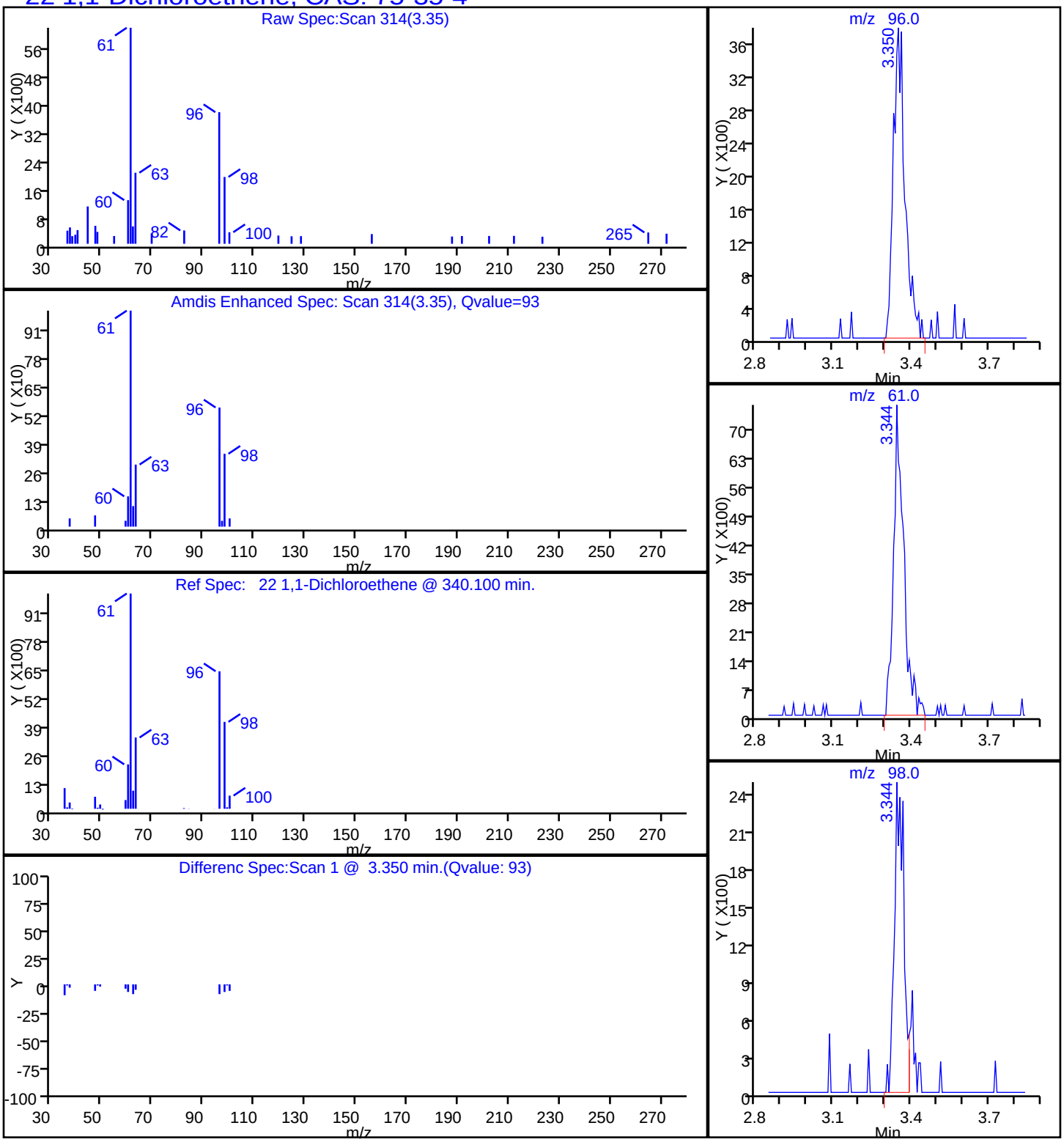
Report Date: 30-Sep-2015 08:12:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929012.D

Injection Date:	29-Sep-2015 15:55:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-6	Lab Sample ID:	180-47935-6		
Client ID:	HD-MW-46-0/1-0				
Operator ID:	001562	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
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



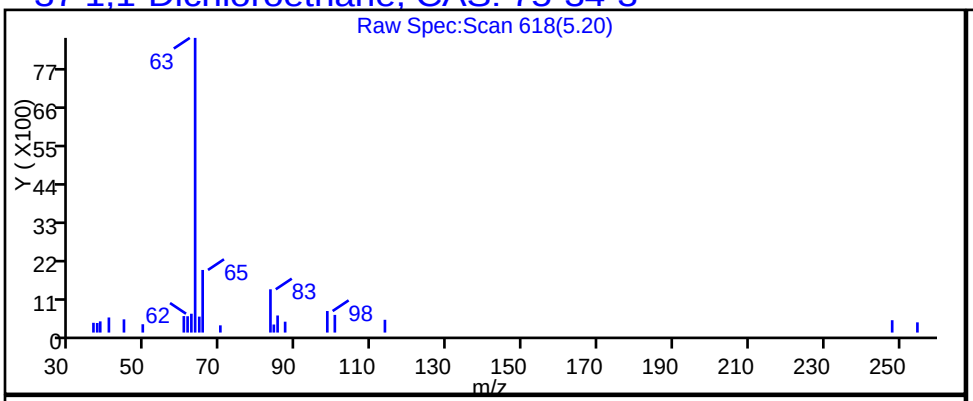
Report Date: 30-Sep-2015 08:12:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

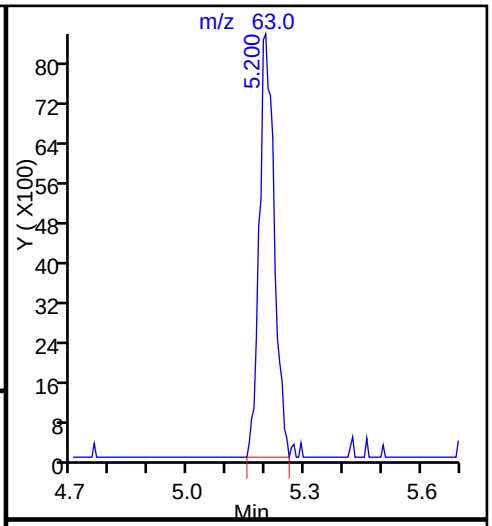
TestAmerica Pittsburgh

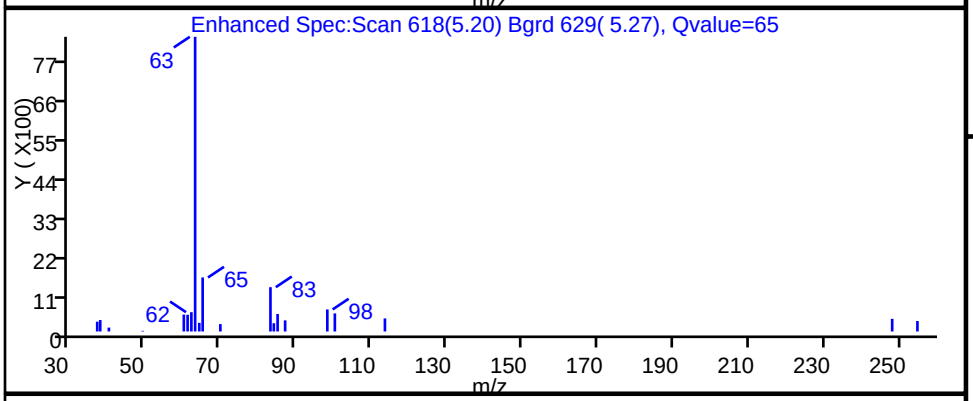
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929012.D

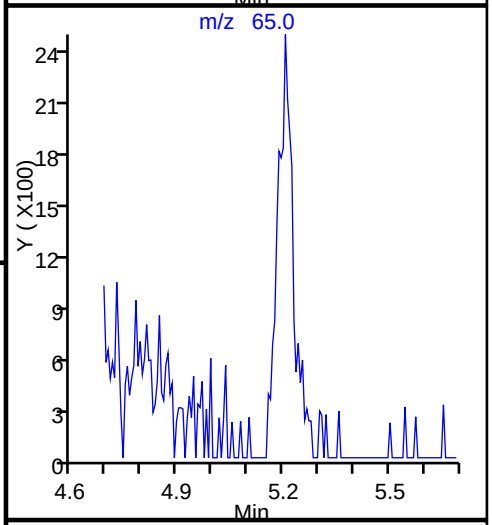
Injection Date:	29-Sep-2015 15:55:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-6	Lab Sample ID:	180-47935-6		
Client ID:	HD-MW-46-0/1-0				
Operator ID:	001562	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

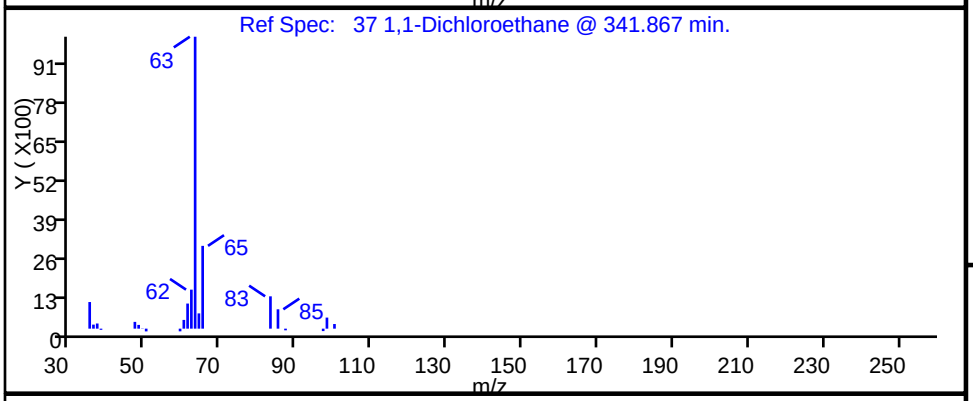
37 1,1-Dichloroethane, CAS: 75-34-3

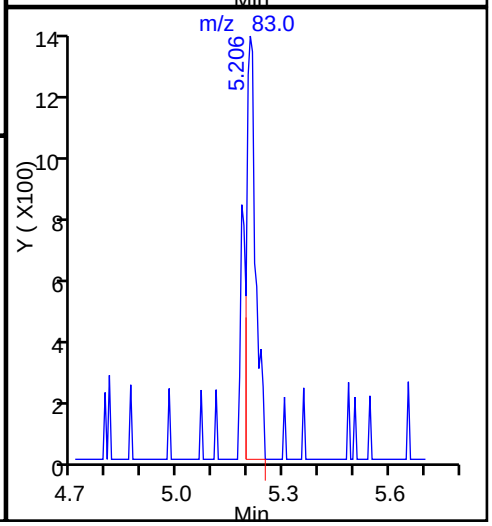


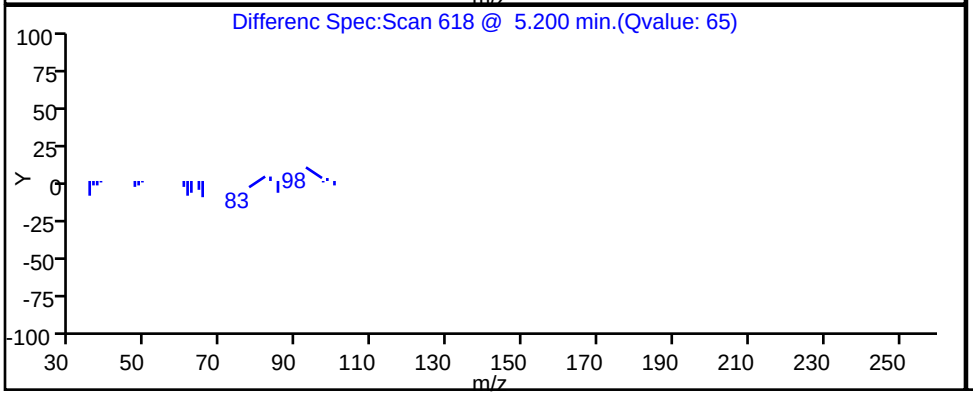










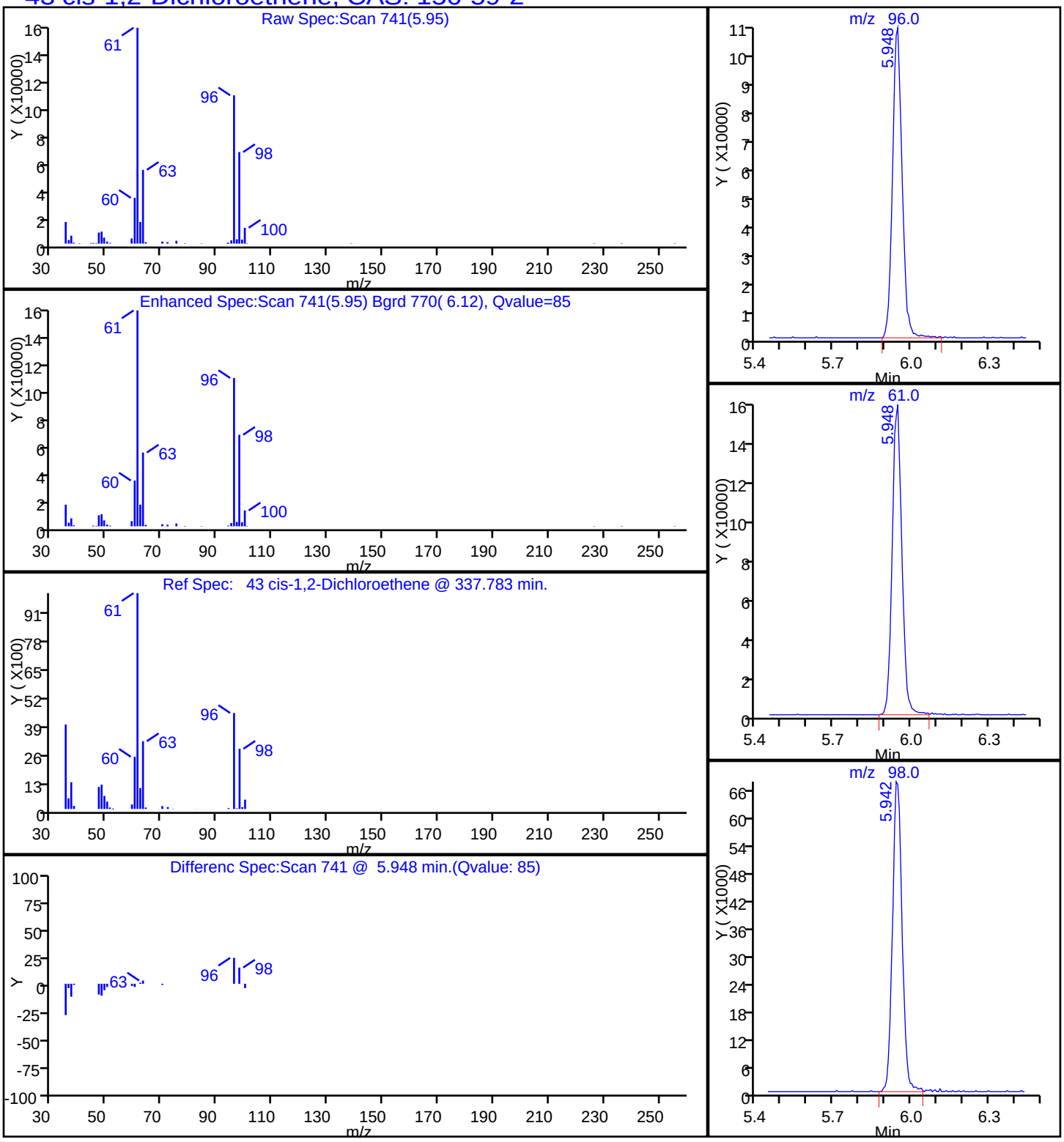


Report Date: 30-Sep-2015 08:12:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929012.D				
Injection Date:	29-Sep-2015 15:55:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-6	Lab Sample ID:	180-47935-6		
Client ID:	HD-MW-46-0/1-0				
Operator ID:	001562	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
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

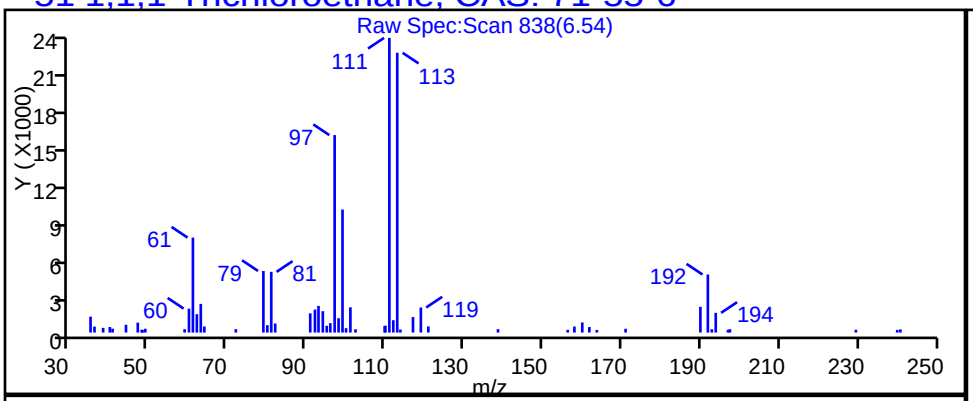


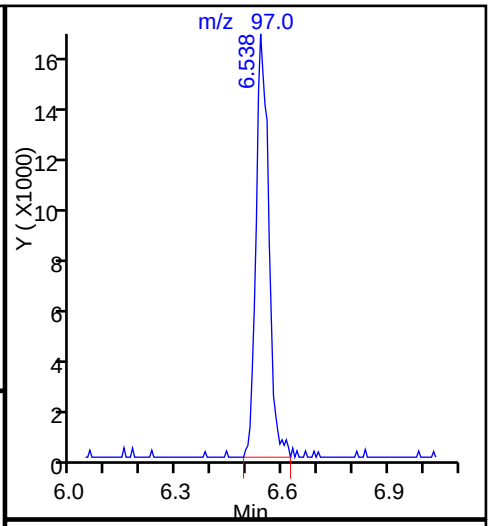
Report Date: 30-Sep-2015 08:12:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

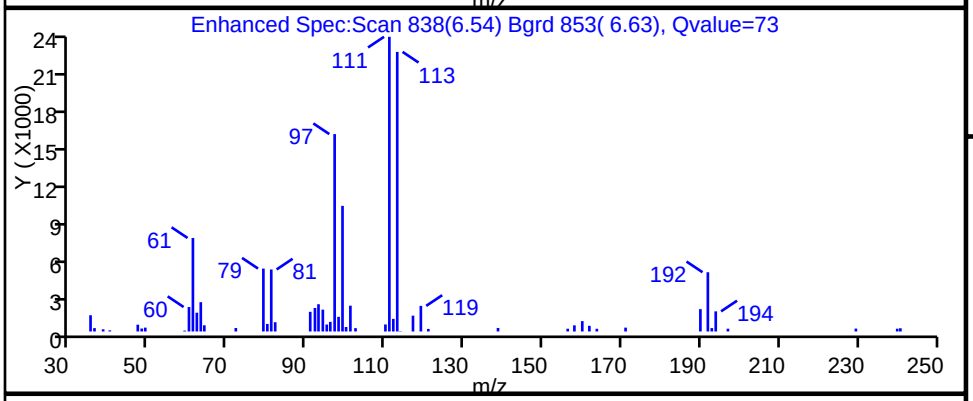
TestAmerica Pittsburgh

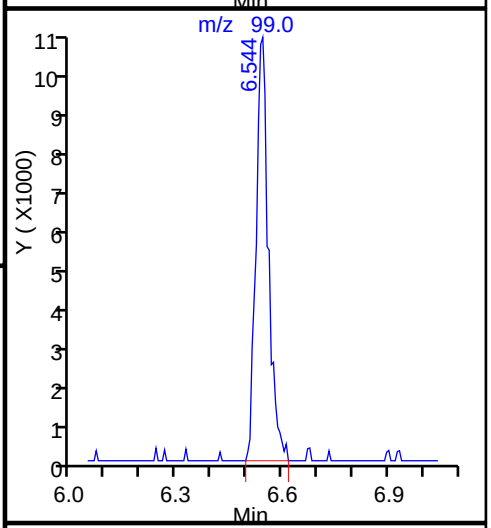
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929012.D				
Injection Date:	29-Sep-2015 15:55:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-6	Lab Sample ID:	180-47935-6		
Client ID:	HD-MW-46-0/1-0				
Operator ID:	001562	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

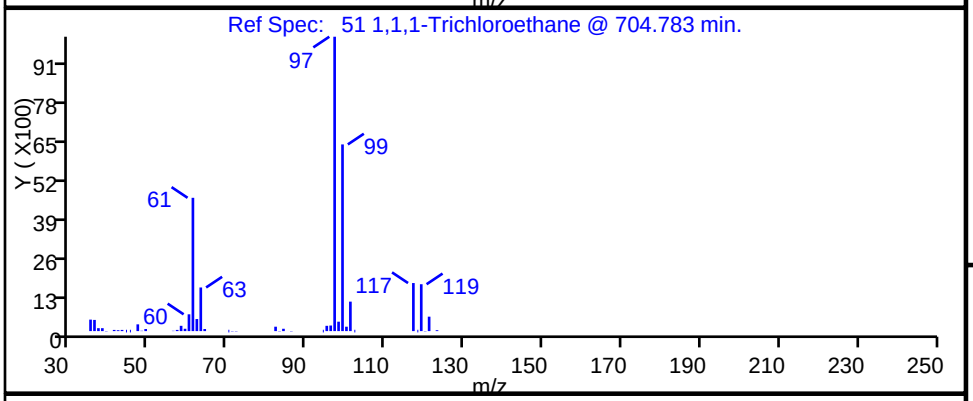
51 1,1,1-Trichloroethane, CAS: 71-55-6

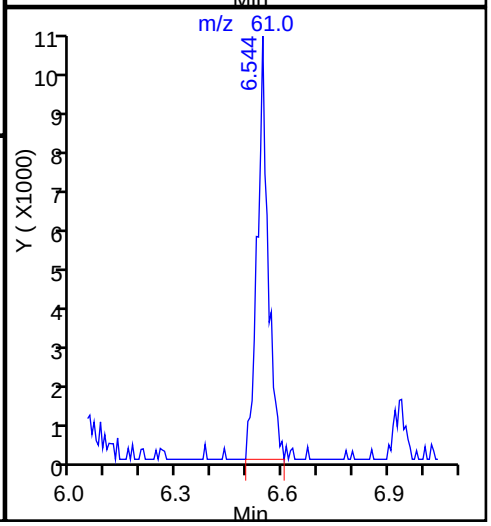


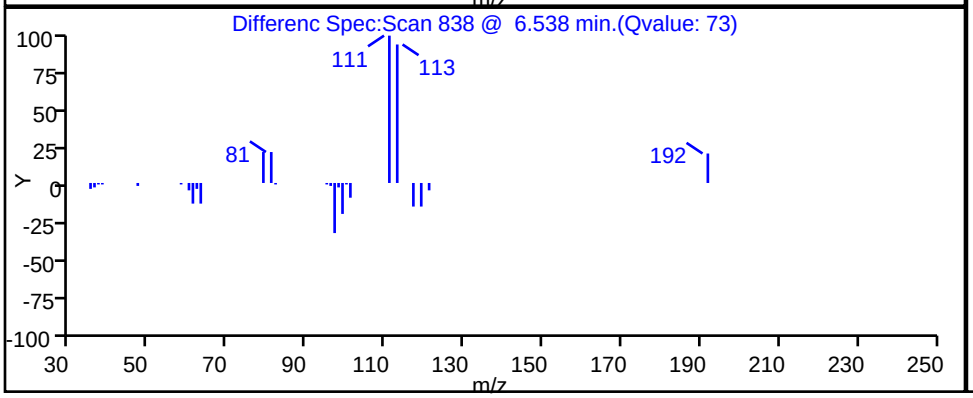












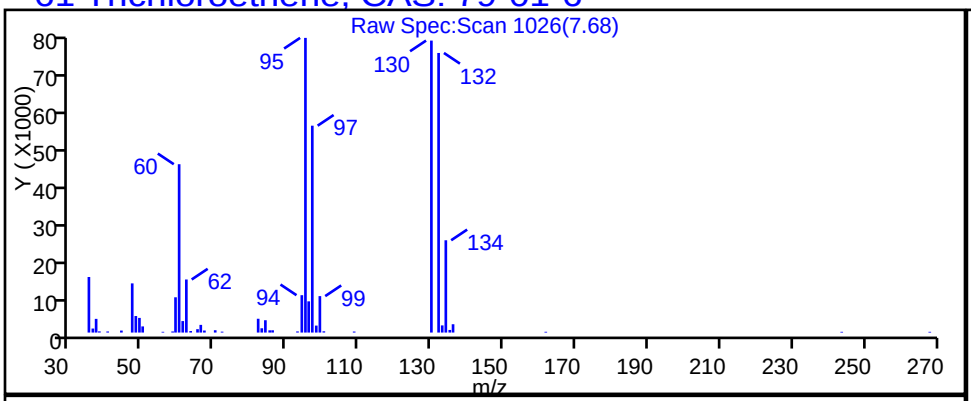
Report Date: 30-Sep-2015 08:12:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

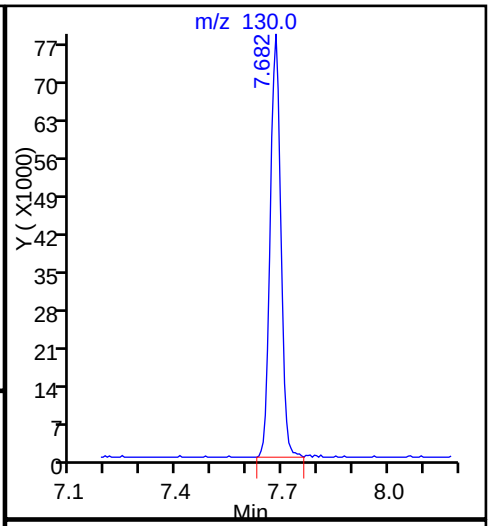
TestAmerica Pittsburgh

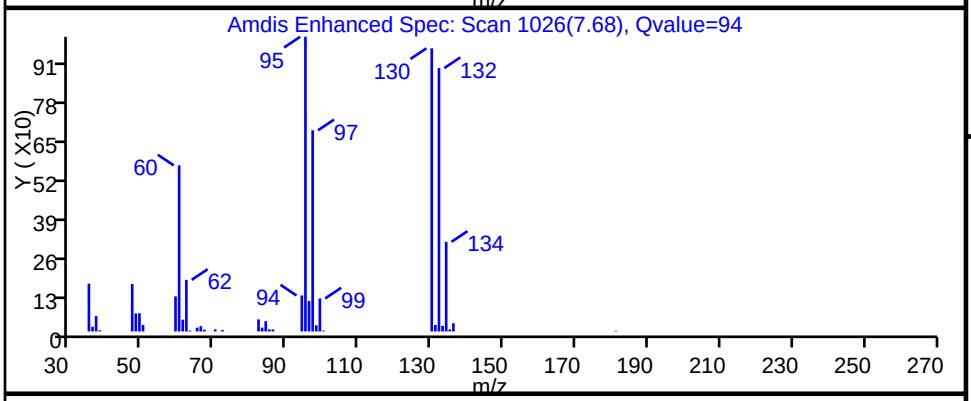
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929012.D

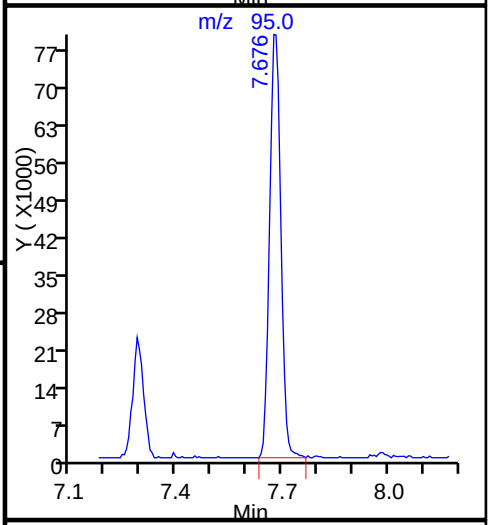
Injection Date:	29-Sep-2015 15:55:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-6	Lab Sample ID:	180-47935-6		
Client ID:	HD-MW-46-0/1-0				
Operator ID:	001562	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

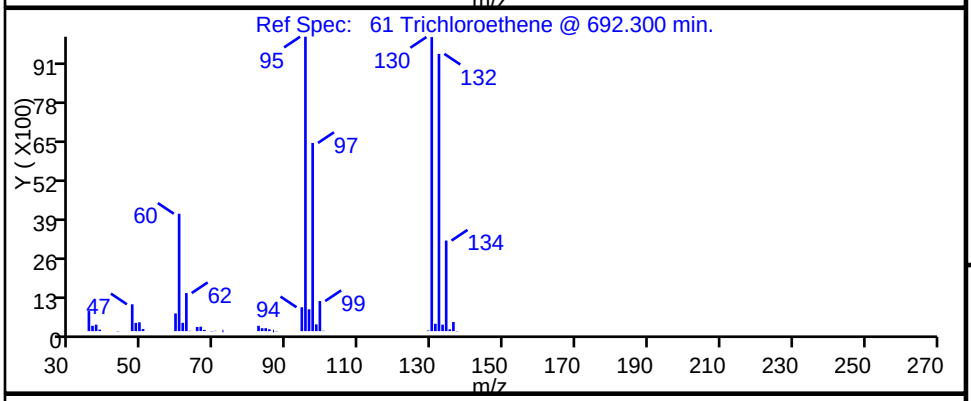
61 Trichloroethene, CAS: 79-01-6

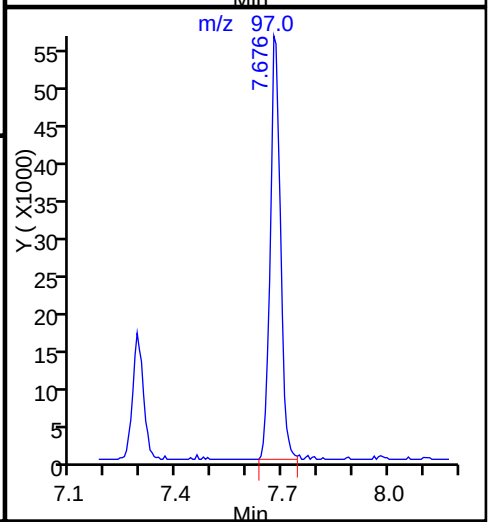


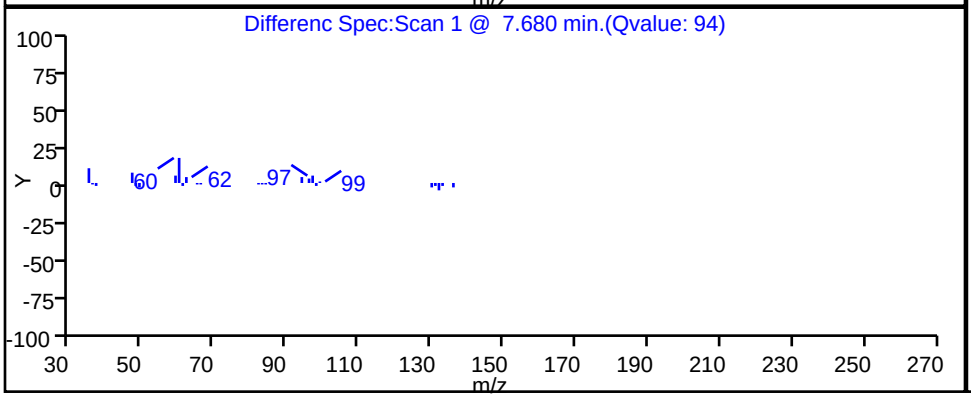












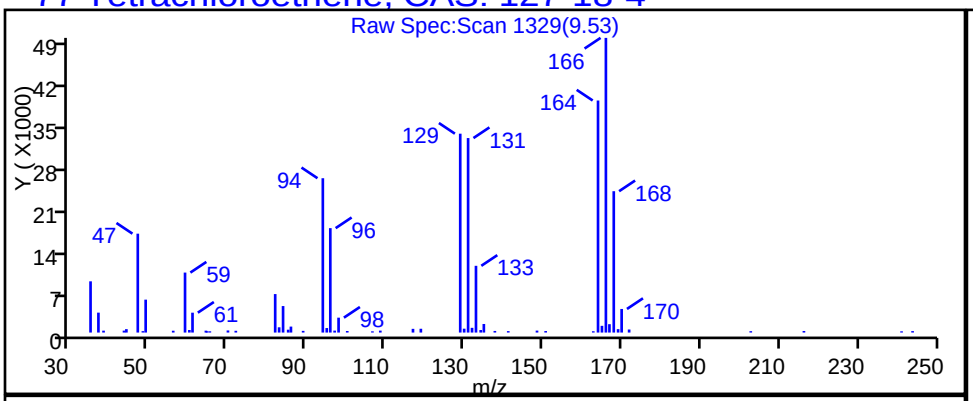
Report Date: 30-Sep-2015 08:12:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

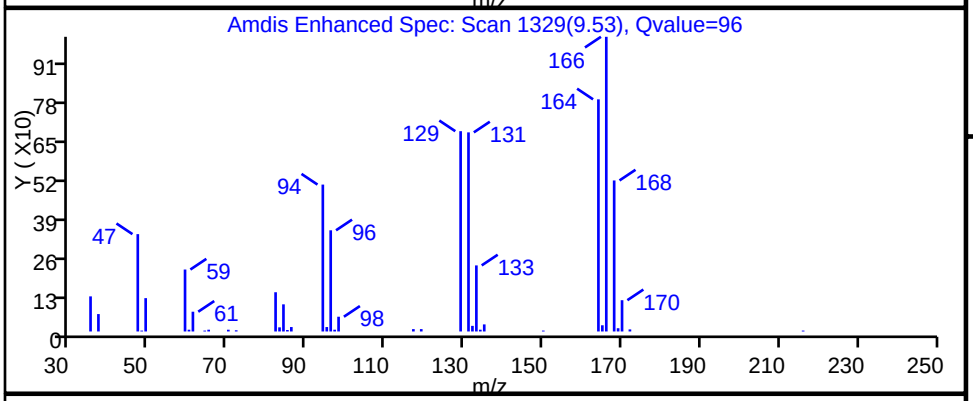
TestAmerica Pittsburgh

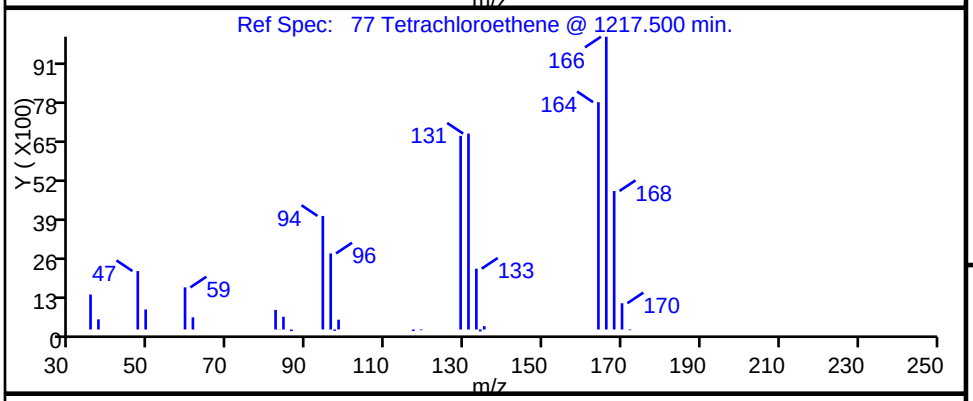
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929012.D

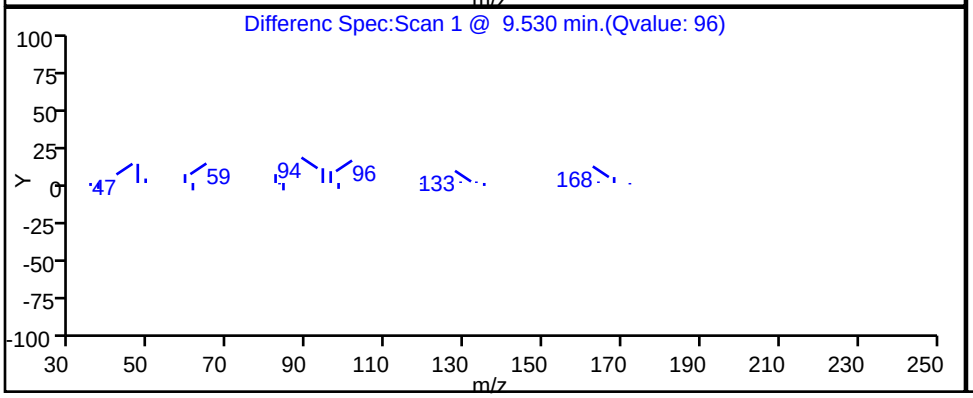
Injection Date:	29-Sep-2015 15:55:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-6	Lab Sample ID:	180-47935-6		
Client ID:	HD-MW-46-0/1-0				
Operator ID:	001562	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

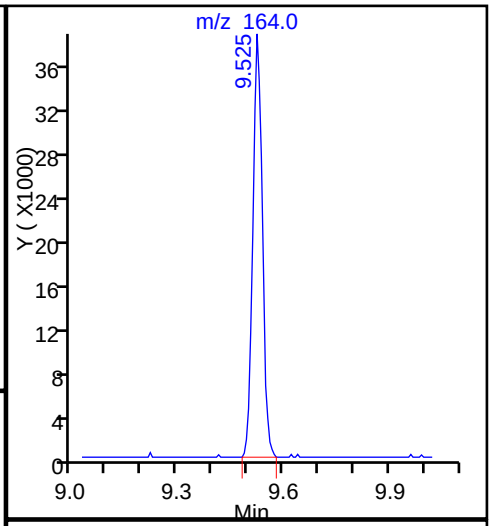
77 Tetrachloroethene, CAS: 127-18-4

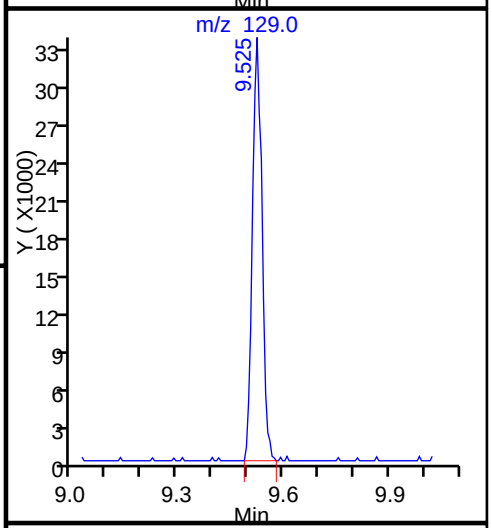


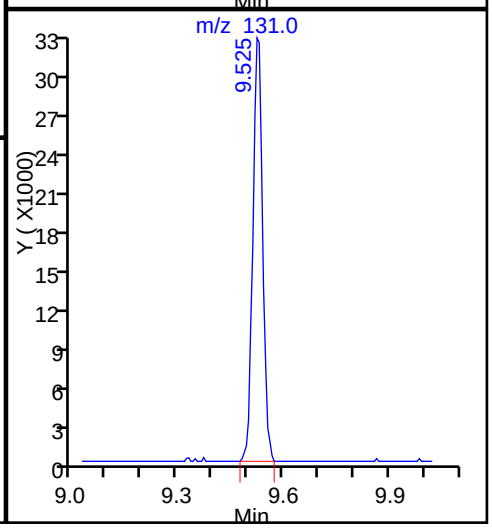












Manual Integration/User Assign Peak Report

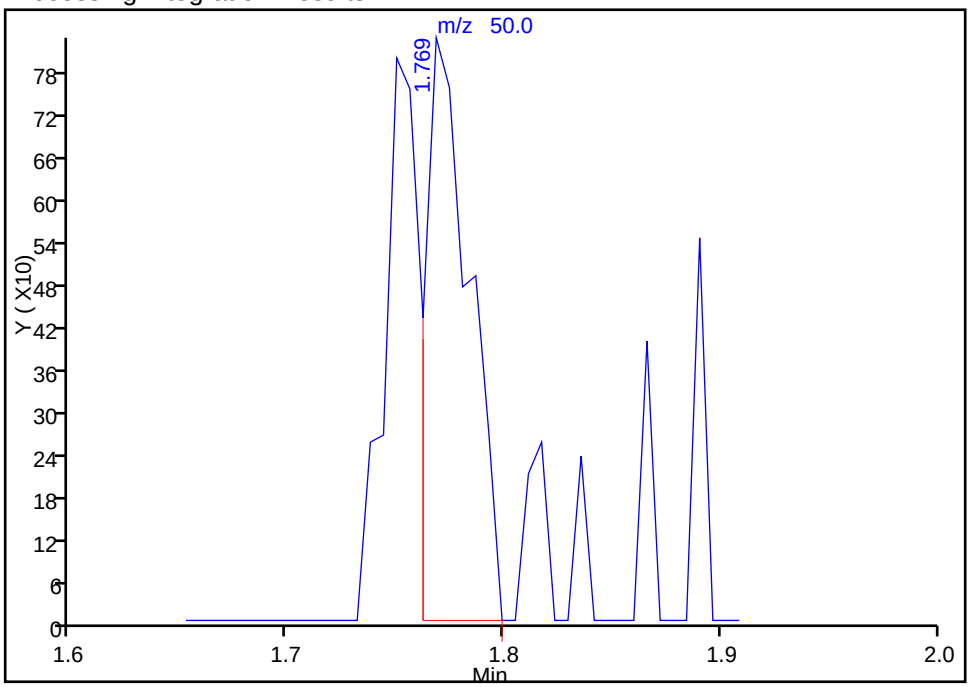
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929012.D				
Injection Date:	29-Sep-2015 15:55:30	Instrument ID:	CHHP6		
Lims ID:	180-47935-C-6	Lab Sample ID:	180-47935-6		
Client ID:	HD-MW-46-0/1-0				
Operator ID:	001562	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

12 Chloromethane, CAS: 74-87-3

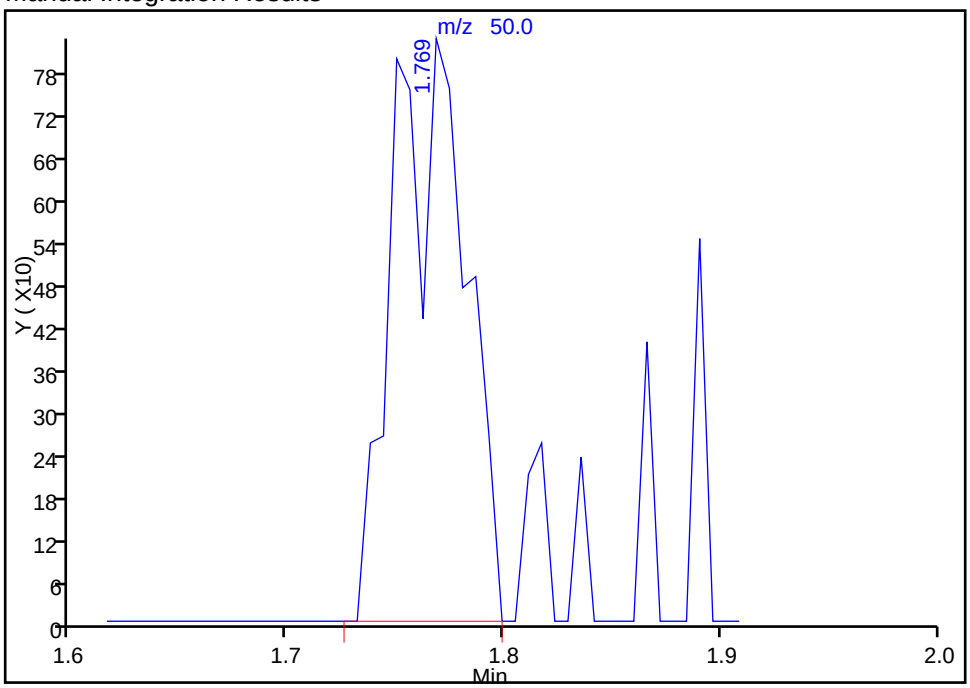
Processing Integration Results

RT: 1.77
Area: 1187
Amount: 0.380611
Amount Units: ng



Manual Integration Results

RT: 1.77
Area: 1944
Amount: 0.623343
Amount Units: ng



Reviewer: fergusond, 30-Sep-2015 08:12:04
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-QC4-0/1-2 | Lab Sample ID: 180-47935-7

Matrix: Water | Lab File ID: 60928024.D

Analysis Method: 8260C | Date Collected: 09/18/2015 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 20:50

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.: 155089 | 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 ^c	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.: 180-47935-1

SDG No.:

Client Sample ID: HD-QC4-0/1-2 | Lab Sample ID: 180-47935-7

Matrix: Water | Lab File ID: 60928024.D

Analysis Method: 8260C | Date Collected: 09/18/2015 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 20:50

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.: 155089 | 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)	105		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	99		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928024.D
Lims ID: 180-47935-B-7 Lab Sample ID: 180-47935-7
Client ID: HD-QC4-0/1-2
Sample Type: Client
Inject. Date: 28-Sep-2015 20:50:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-47935-B-7
Misc. Info.: 180-0008724-024
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 08:38:02 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 08:38:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.236	4.241	-0.005	90	177703	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.283	0.007	97	511350	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	92	116209	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.746	0.001	98	191151	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.560	6.547	0.013	92	116186	49.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.930	0.001	71	200416	52.7	
$ 7 Toluene-d8 (Surr)	98	8.945	8.938	0.007	95	481021	52.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.584	0.001	84	188981	46.4	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.240				ND	
16 Chloroethane	64		2.380				ND	
22 1,1-Dichloroethene	96		3.341				ND	
24 Acetone	43		3.426				ND	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.126				ND	
33 Acrylonitrile	53		4.503				ND	
34 trans-1,2-Dichloroethene	96		4.558				ND	
35 Methyl tert-butyl ether	73		4.564				ND	
37 1,1-Dichloroethane	63		5.190				ND	
43 cis-1,2-Dichloroethene	96		5.933				ND	
44 2-Butanone (MEK)	43		5.951				ND	
48 Chlorobromomethane	128		6.225				ND	
50 Chloroform	83		6.371				ND	
51 1,1,1-Trichloroethane	97		6.535				ND	
53 Carbon tetrachloride	117		6.717				ND	
56 Benzene	78		6.942				ND	
57 1,2-Dichloroethane	62		7.015				ND	
61 Trichloroethene	130		7.679				ND	
64 1,2-Dichloropropane	63		7.952				ND	
65 1,4-Dioxane	88		8.038				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.232				ND	
71 cis-1,3-Dichloropropene	75		8.676				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
73 Toluene	91		9.011				ND	
74 trans-1,3-Dichloropropene	75		9.254				ND	
76 1,1,2-Trichloroethane	97		9.449				ND	
77 Tetrachloroethene	164		9.528				ND	
79 2-Hexanone	43		9.656				ND	
81 Chlorodibromomethane	129		9.820				ND	
82 Ethylene Dibromide	107		9.936				ND	
84 Chlorobenzene	112		10.428				ND	
86 1,1,1,2-Tetrachloroethane	131		10.520				ND	
87 Ethylbenzene	106		10.526				ND	
88 m-Xylene & p-Xylene	106		10.659				ND	
89 o-Xylene	106		11.037				ND	
90 Styrene	104		11.061				ND	
91 Bromoform	173		11.244				ND	
96 1,1,2,2-Tetrachloroethane	83		11.712				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

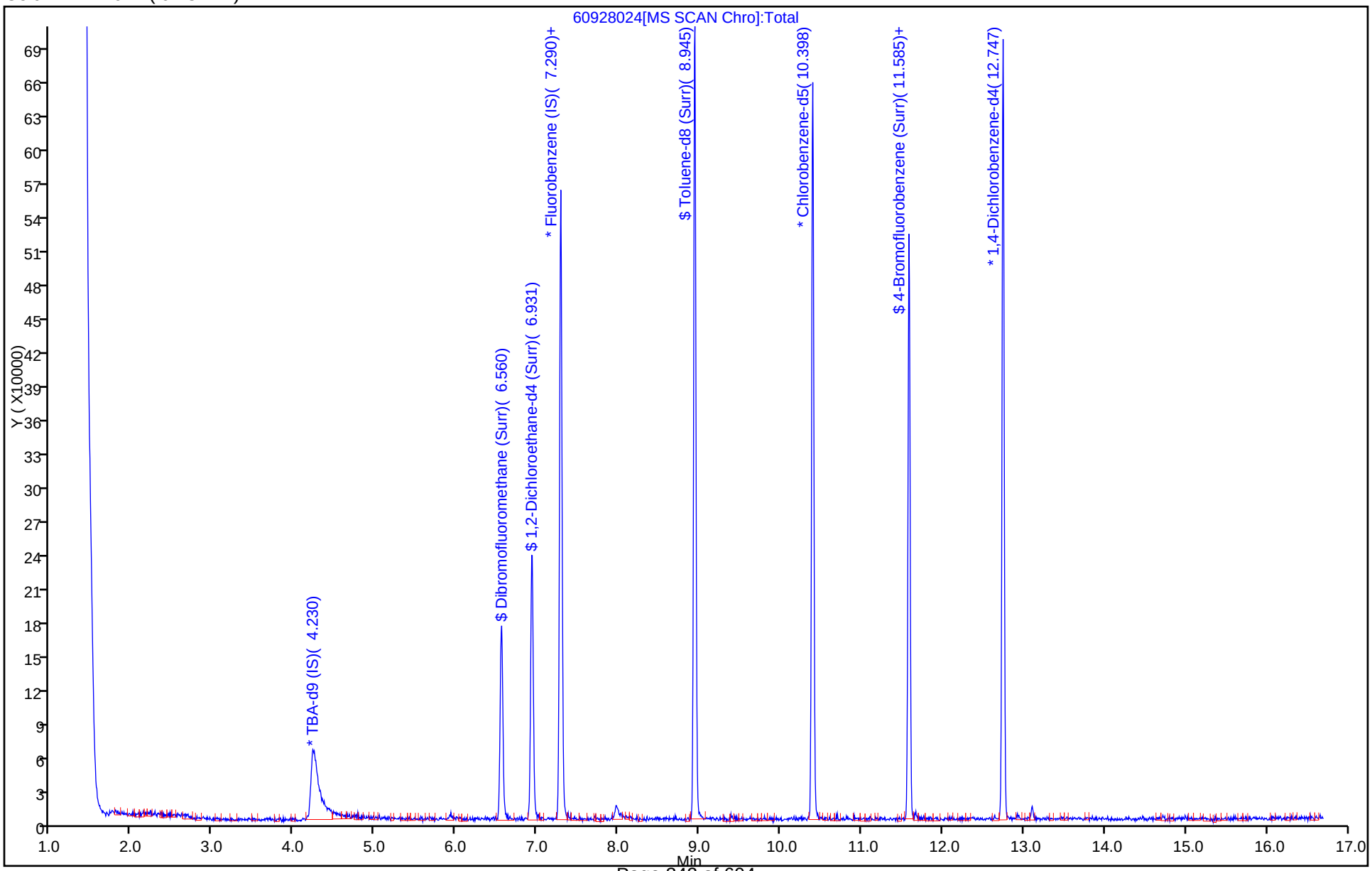
Report Date: 29-Sep-2015 08:38:03 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928024.D

Injection Date:	28-Sep-2015 20:50:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-47935-B-7	Lab Sample ID:	180-47935-7	Worklist Smp#:	24
Client ID:	HD-QC4-0/1-2				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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.: 180-47935-1 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

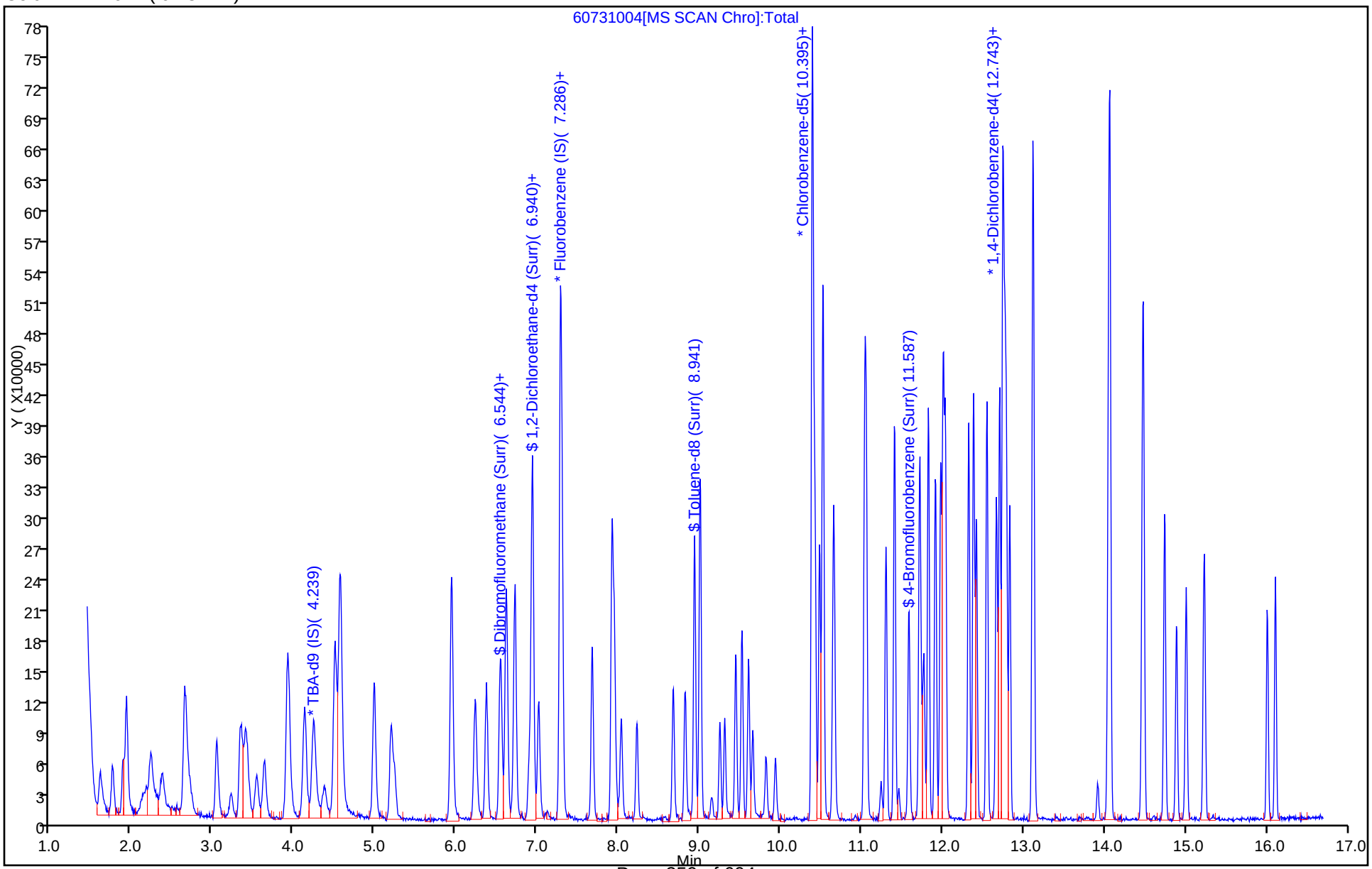
Report Date: 03-Aug-2015 12:15:35 Chrom Revision: 2.2 09-Jul-2015 10:16:20

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

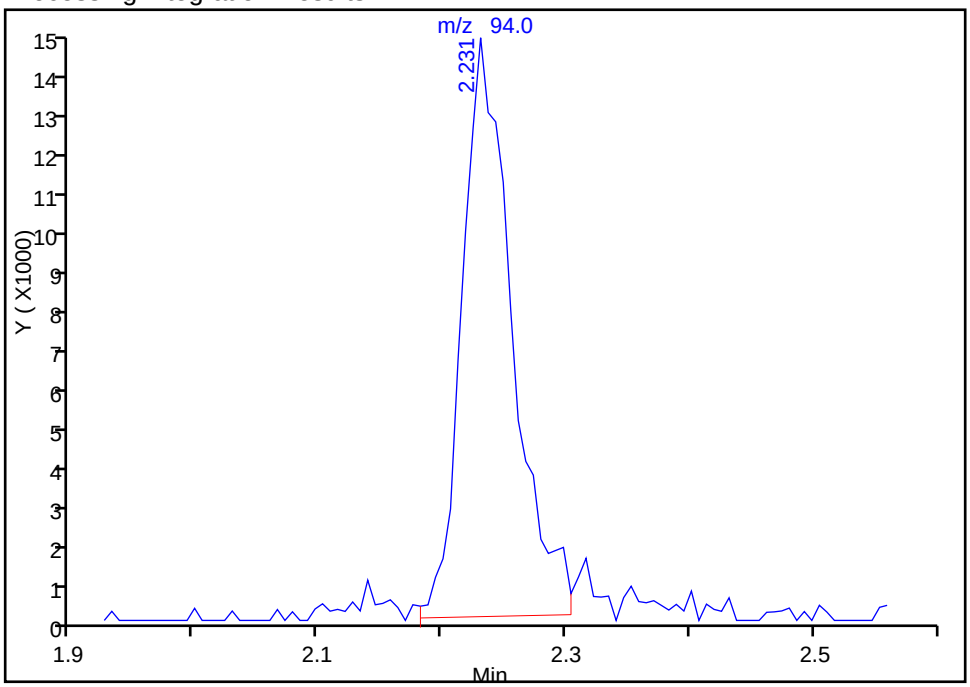
TestAmerica Pittsburgh

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

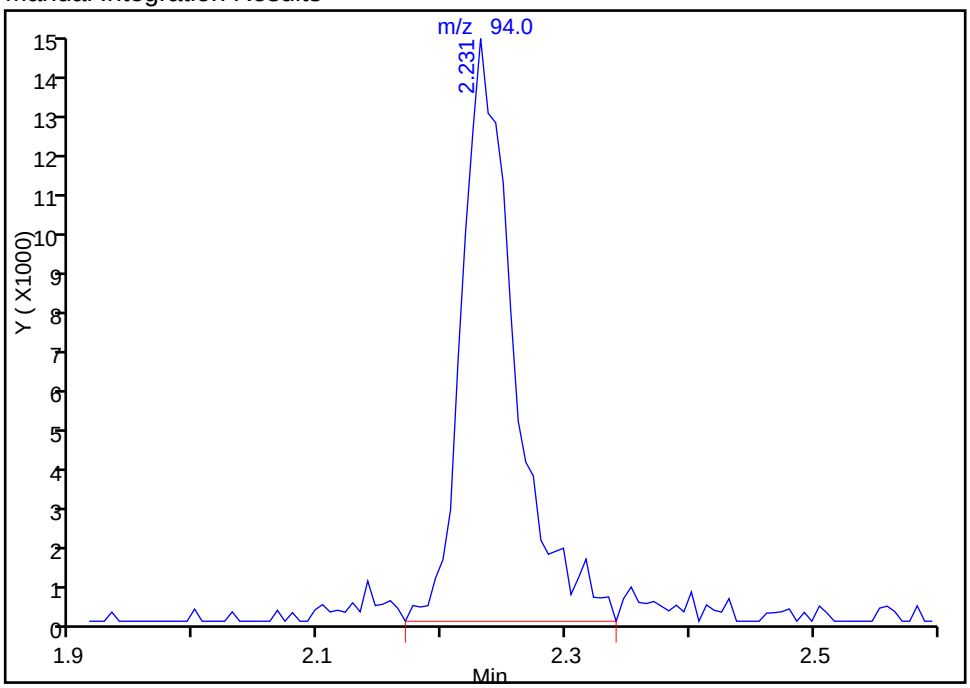
Processing Integration Results

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

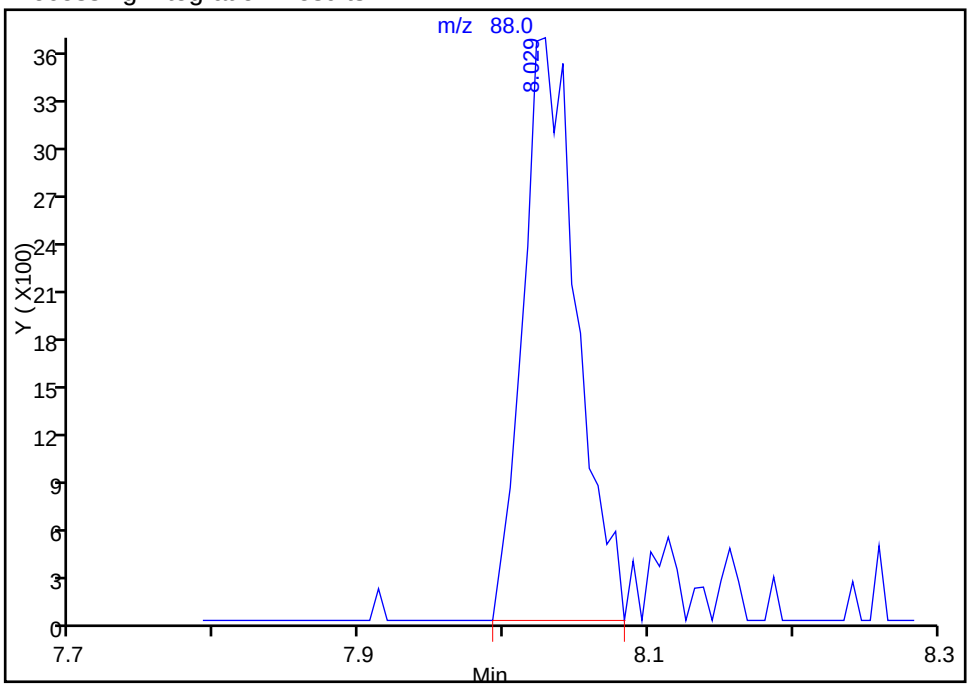
TestAmerica Pittsburgh

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

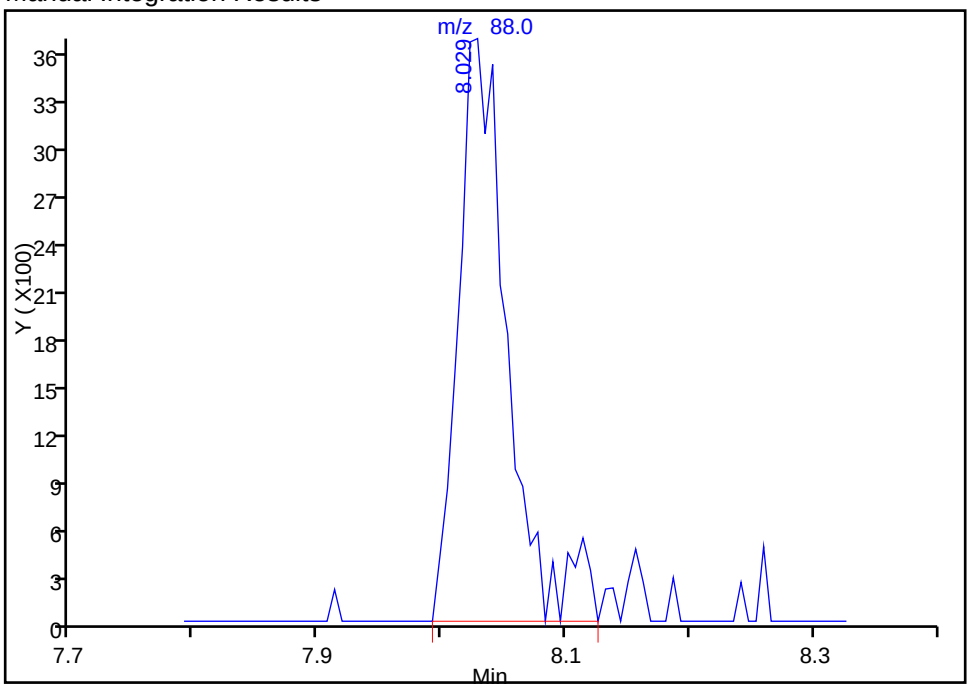
Processing Integration Results

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

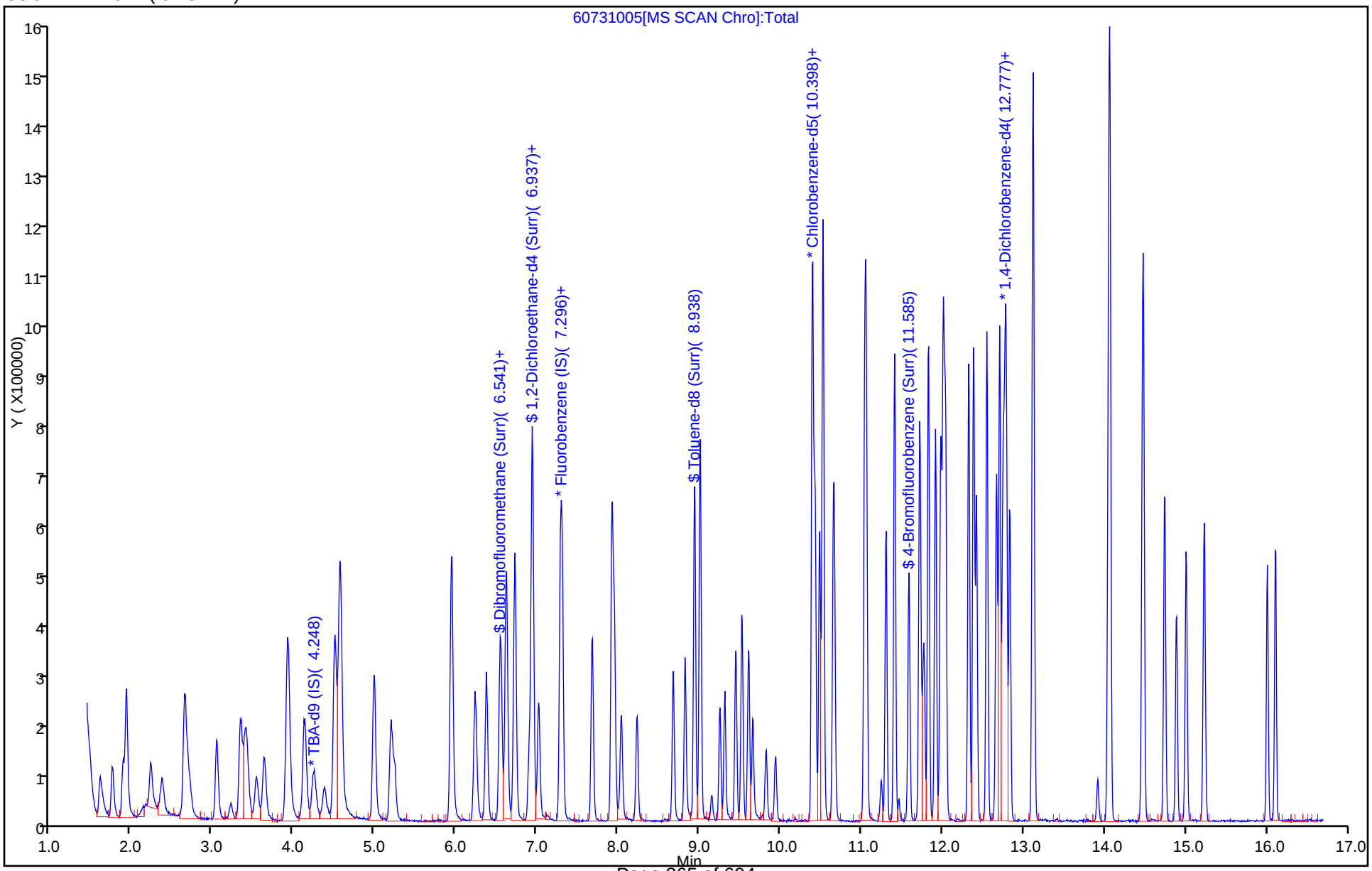
Report Date: 03-Aug-2015 12:56:52 Chrom Revision: 2.2 09-Jul-2015 10:16:20

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

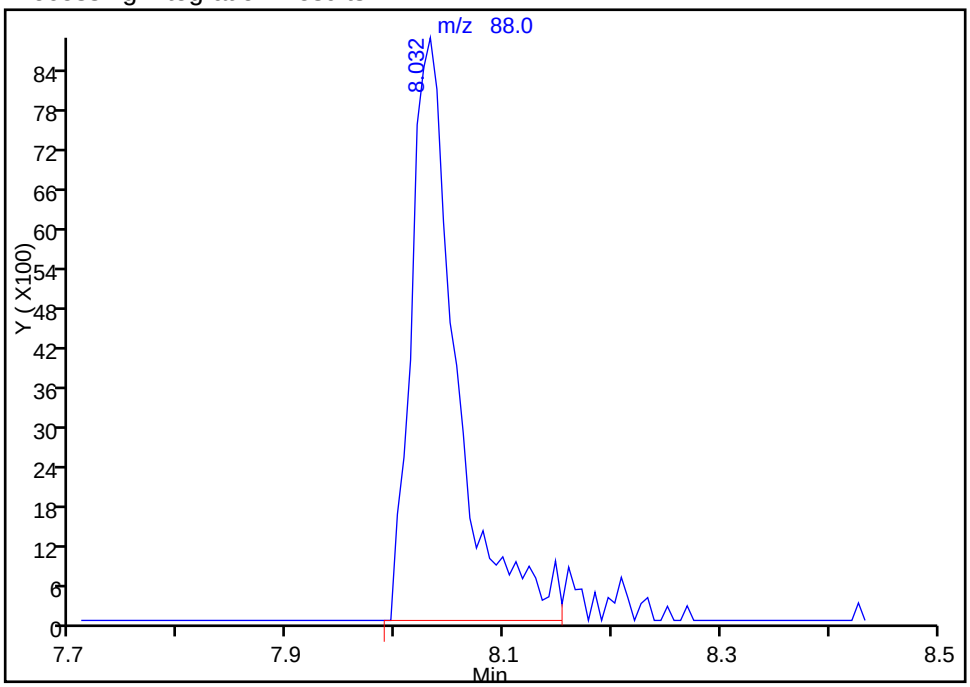
TestAmerica Pittsburgh

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

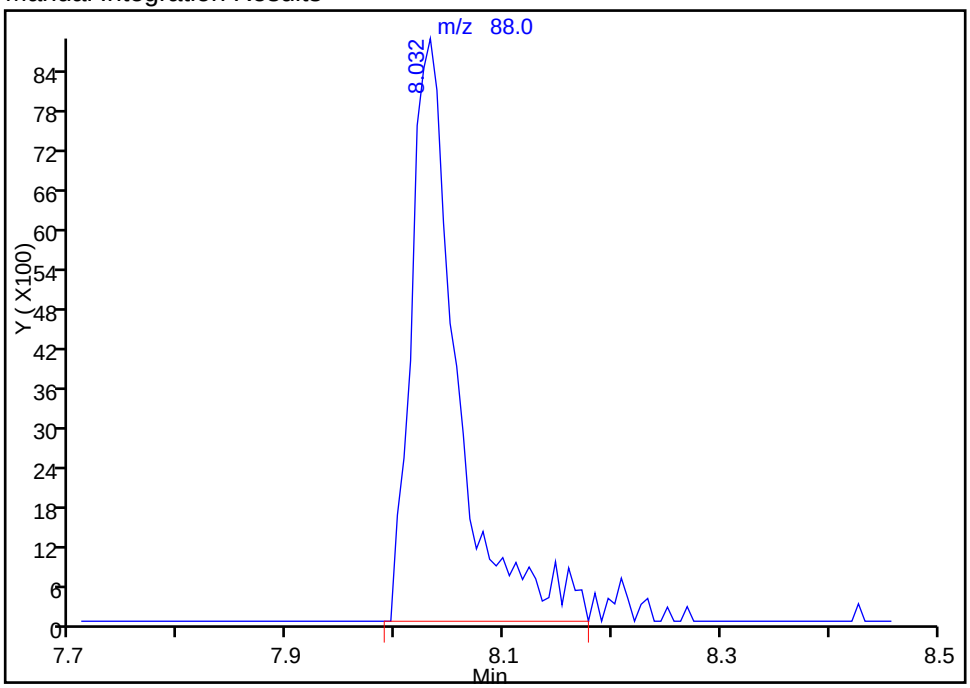
Processing Integration Results

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

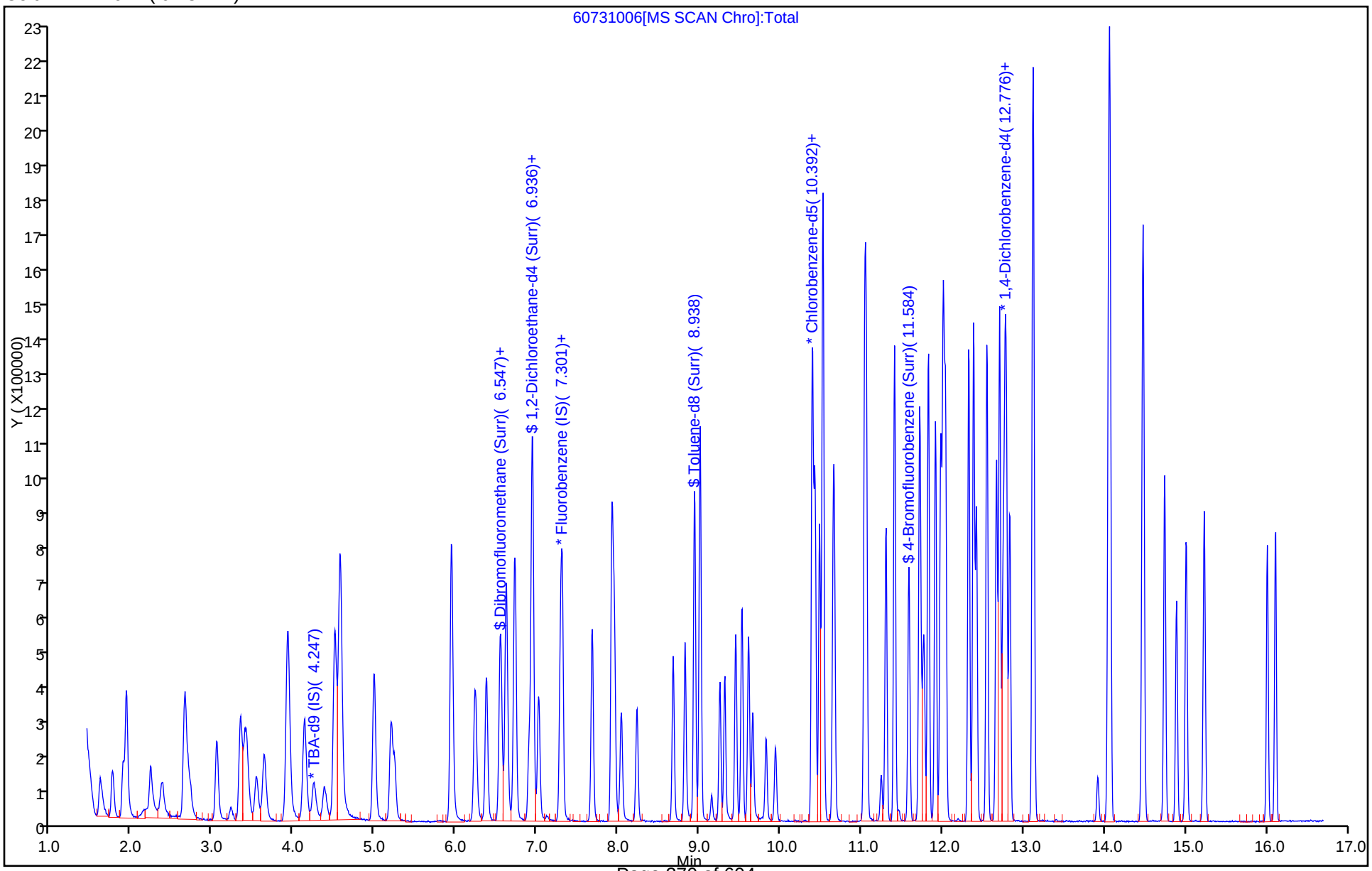
Report Date: 03-Aug-2015 12:15:44 Chrom Revision: 2.2 09-Jul-2015 10:16:20

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

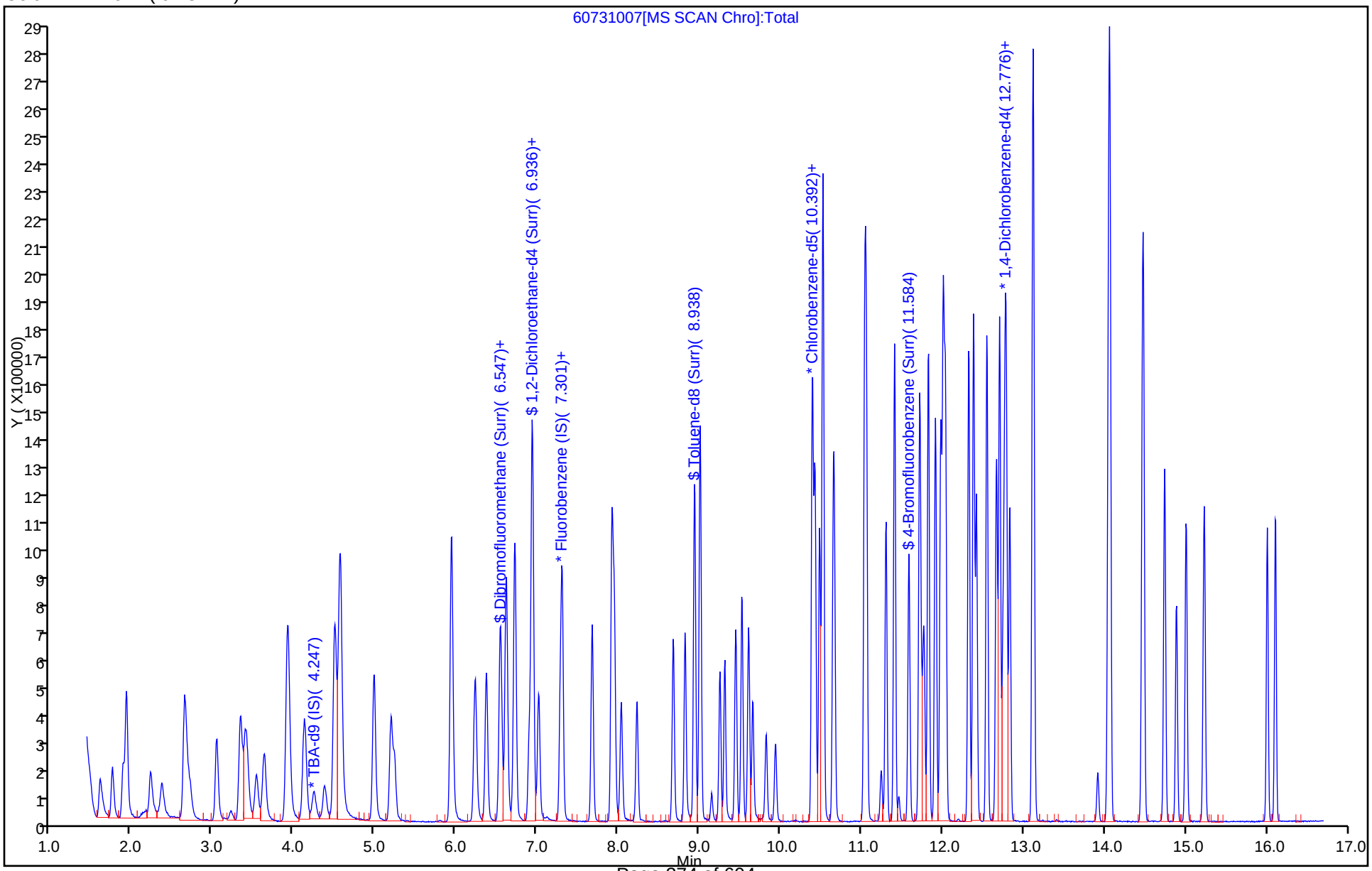
Report Date: 03-Aug-2015 12:15:52 Chrom Revision: 2.2 09-Jul-2015 10:16:20

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

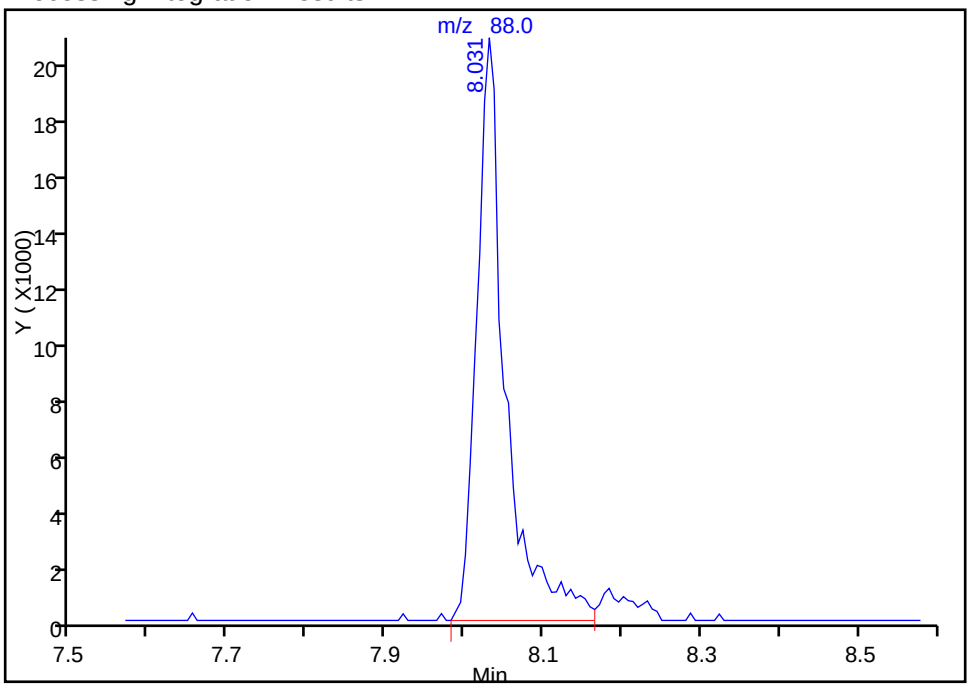
TestAmerica Pittsburgh

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

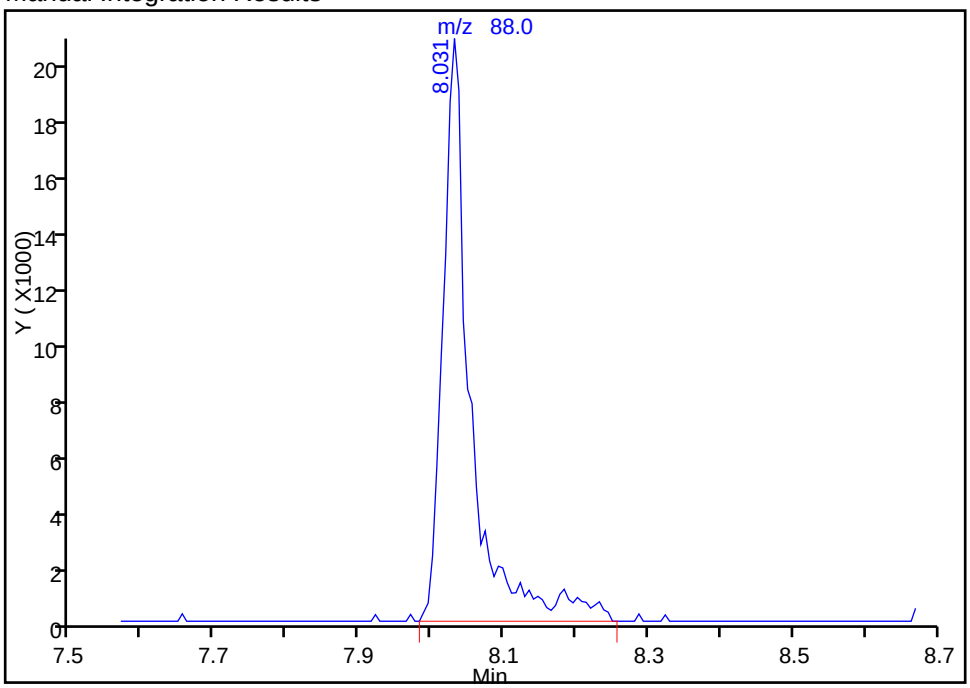
Processing Integration Results

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

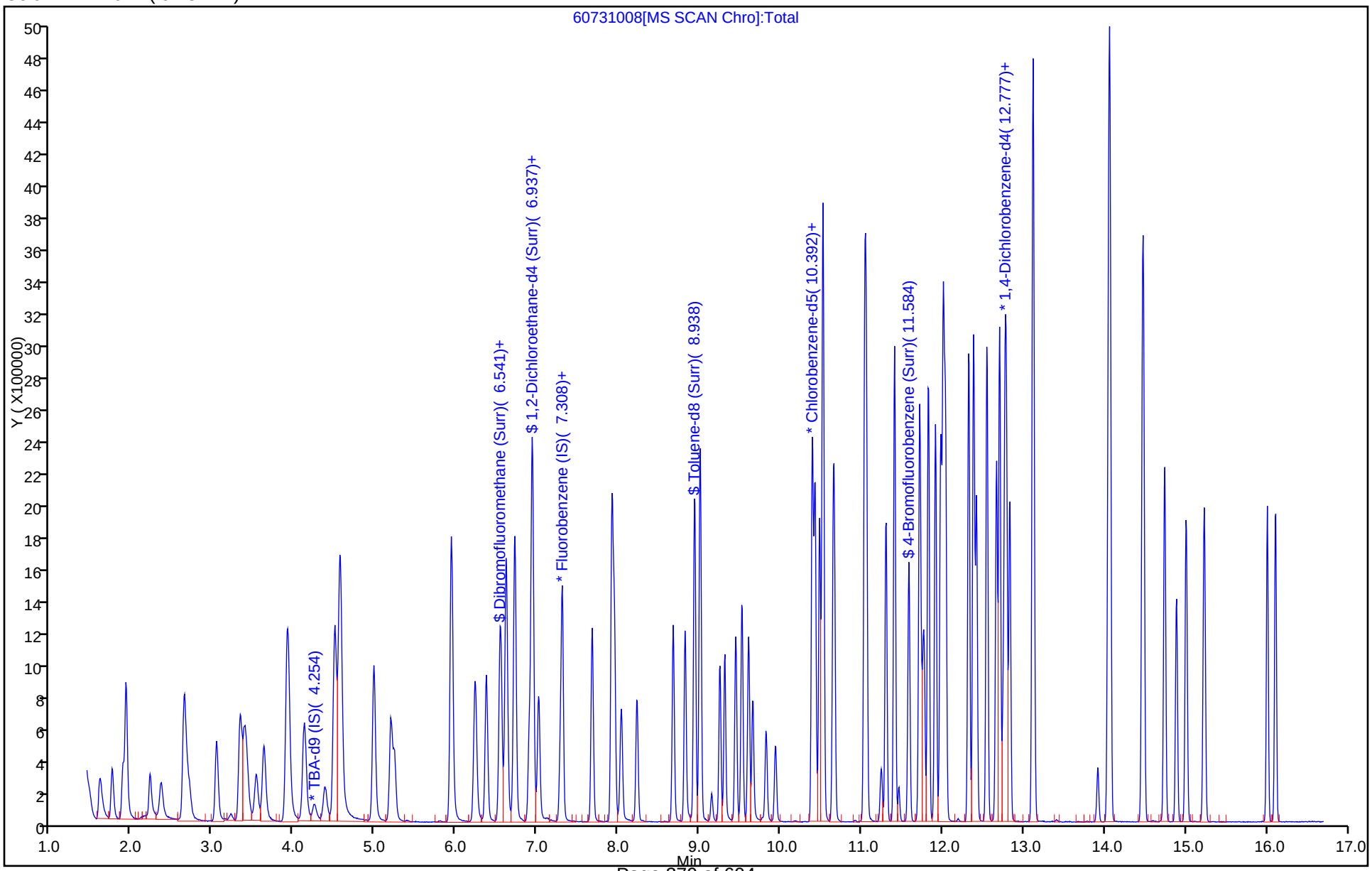
Report Date: 03-Aug-2015 12:16:03 Chrom Revision: 2.2 09-Jul-2015 10:16:20

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

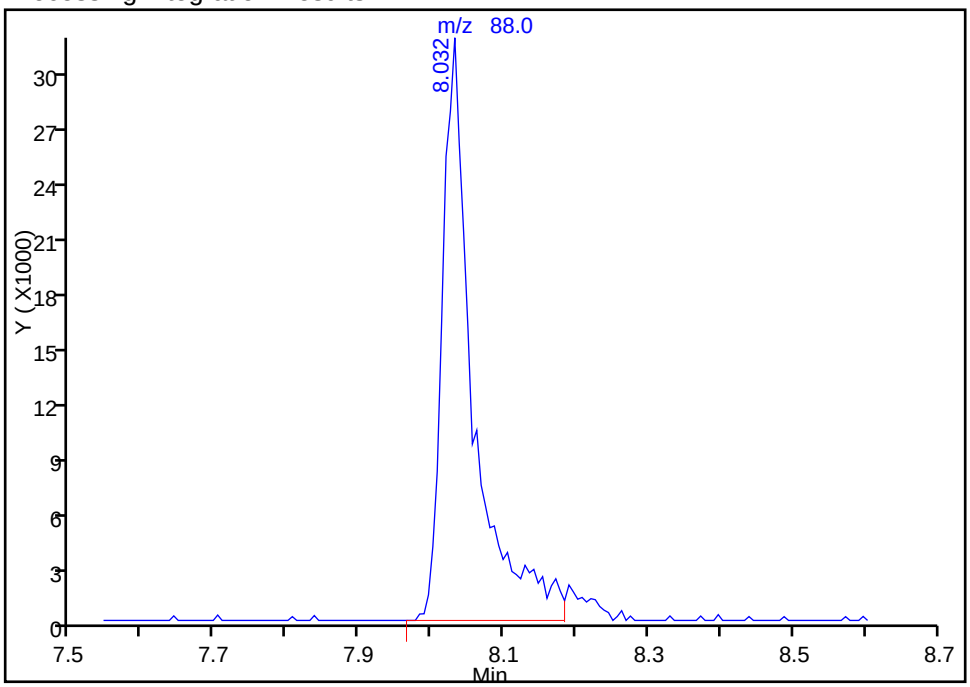
TestAmerica Pittsburgh

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

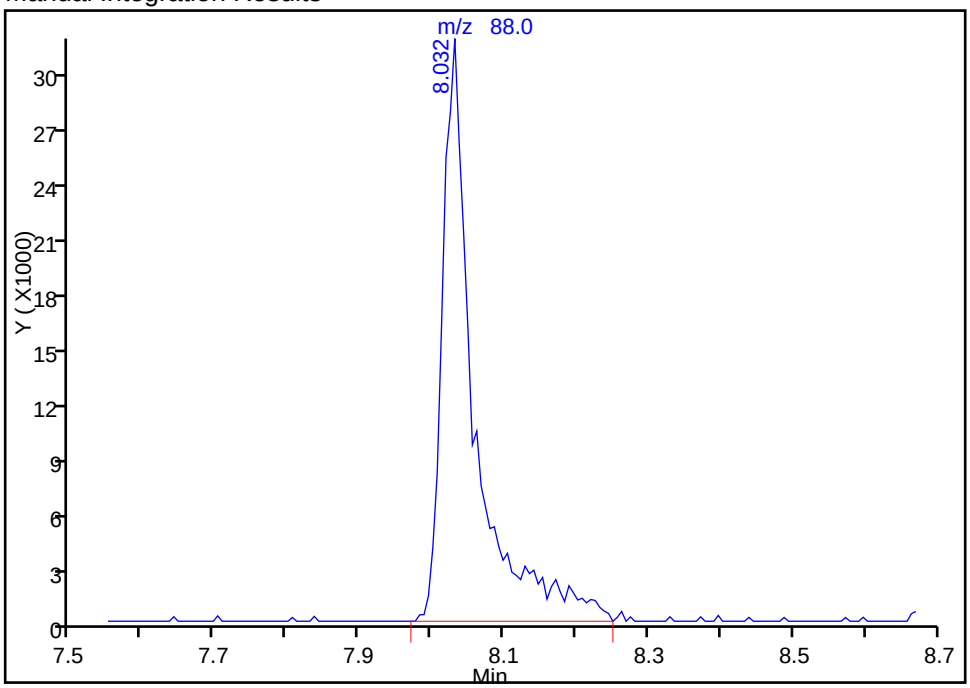
Processing Integration Results

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

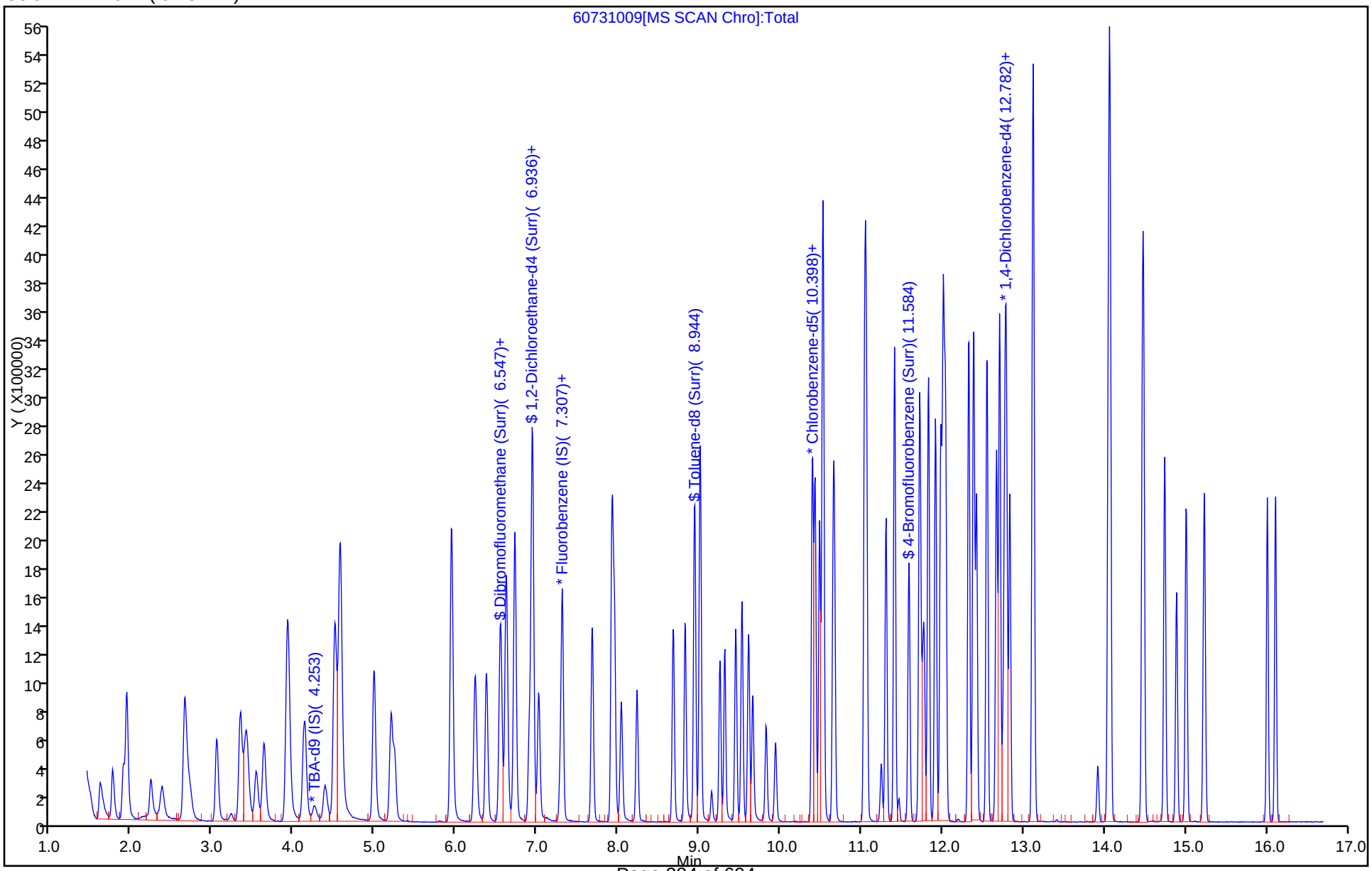
Report Date: 03-Aug-2015 12:16:13 Chrom Revision: 2.2 09-Jul-2015 10:16:20

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

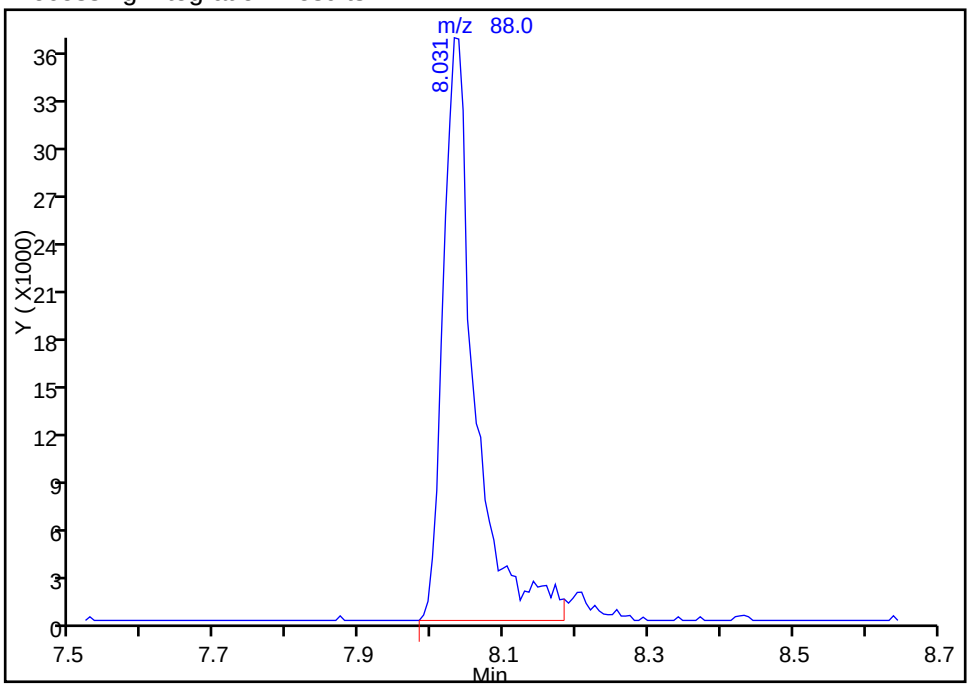
TestAmerica Pittsburgh

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

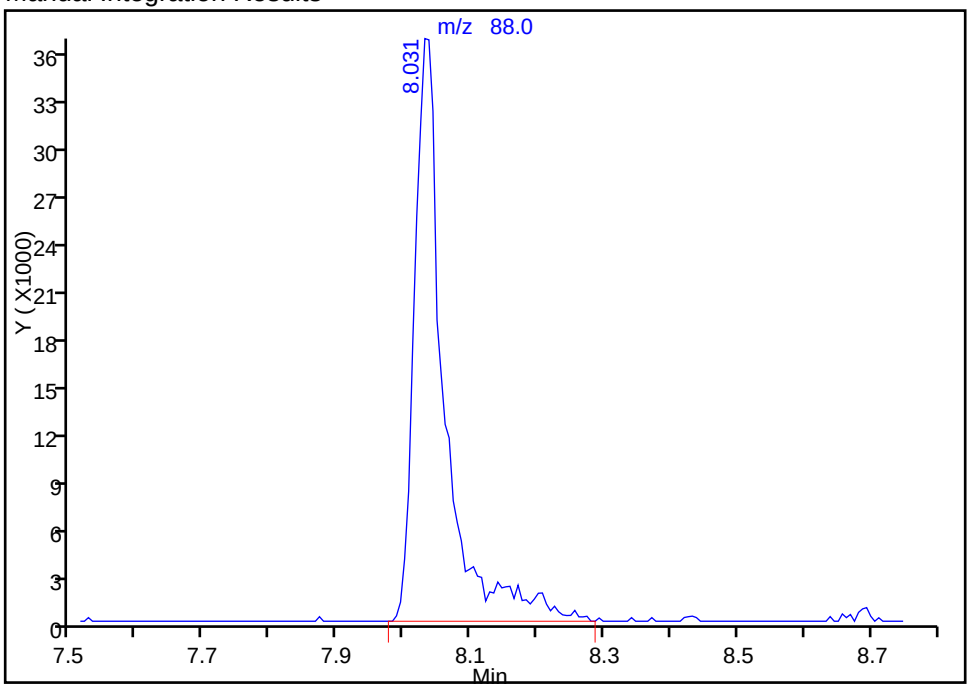
Processing Integration Results

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

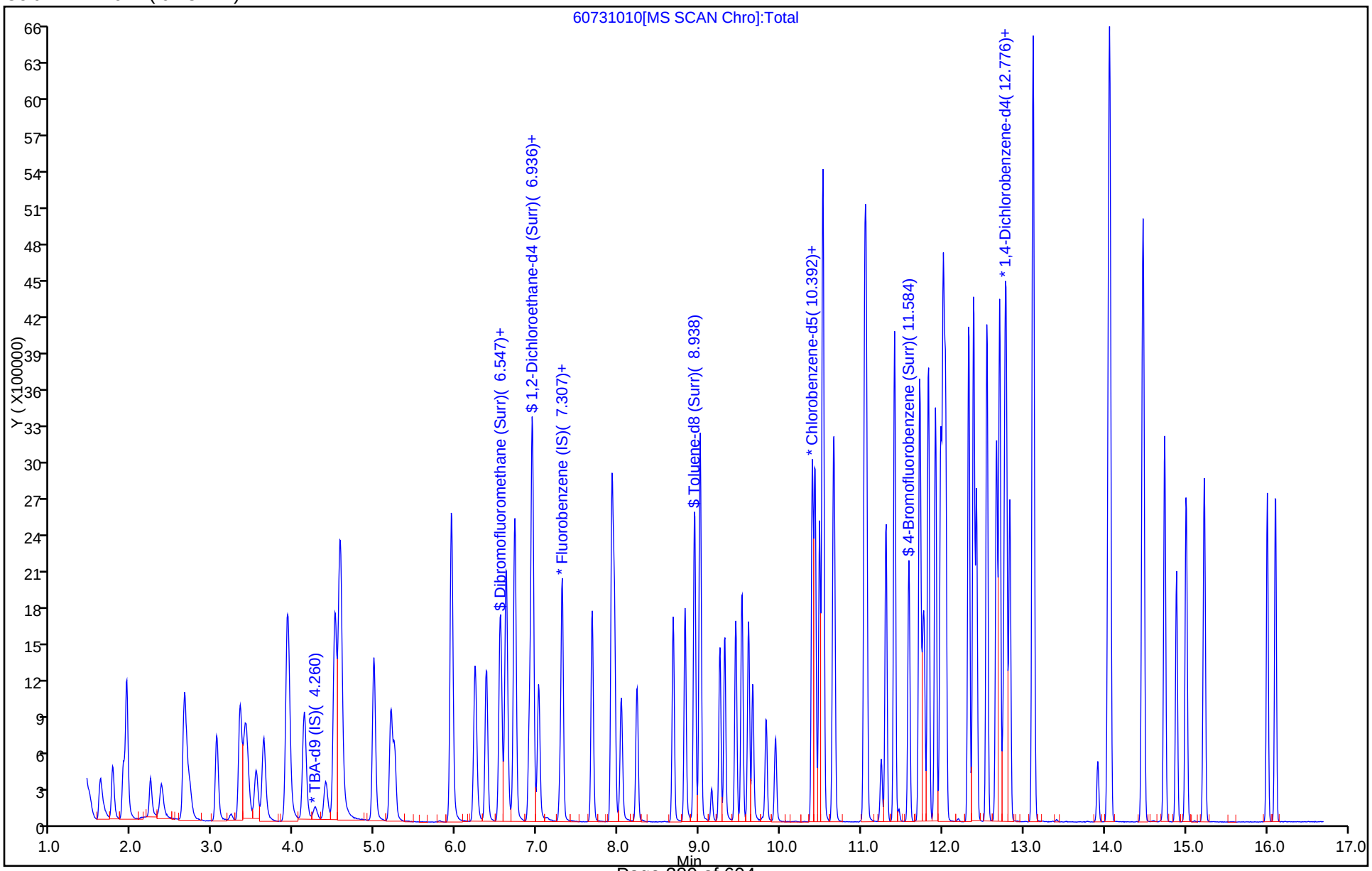
Report Date: 03-Aug-2015 12:16:21 Chrom Revision: 2.2 09-Jul-2015 10:16:20

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

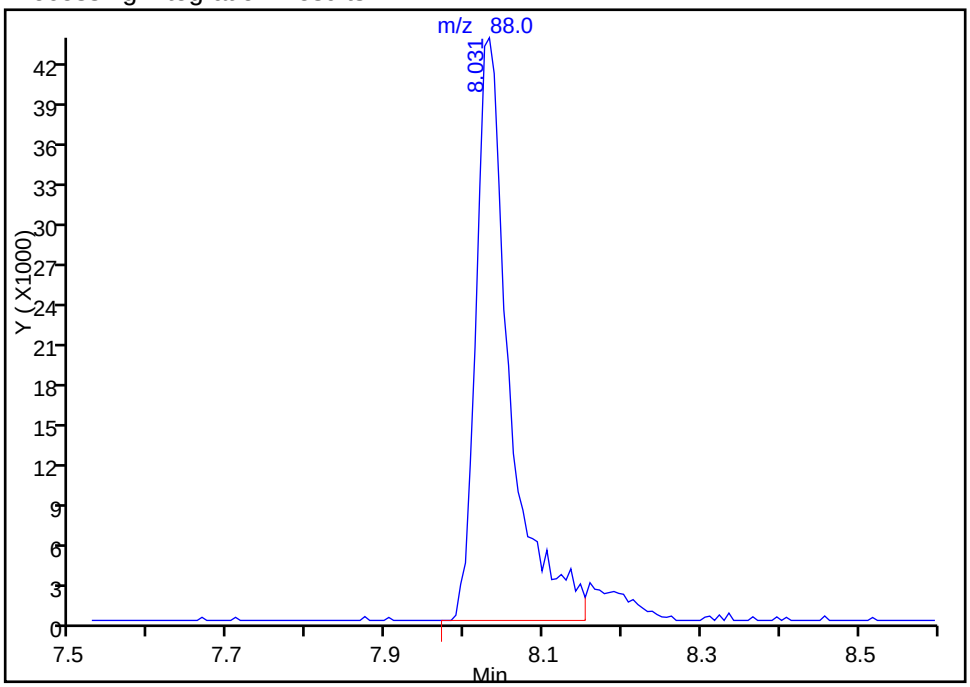
TestAmerica Pittsburgh

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

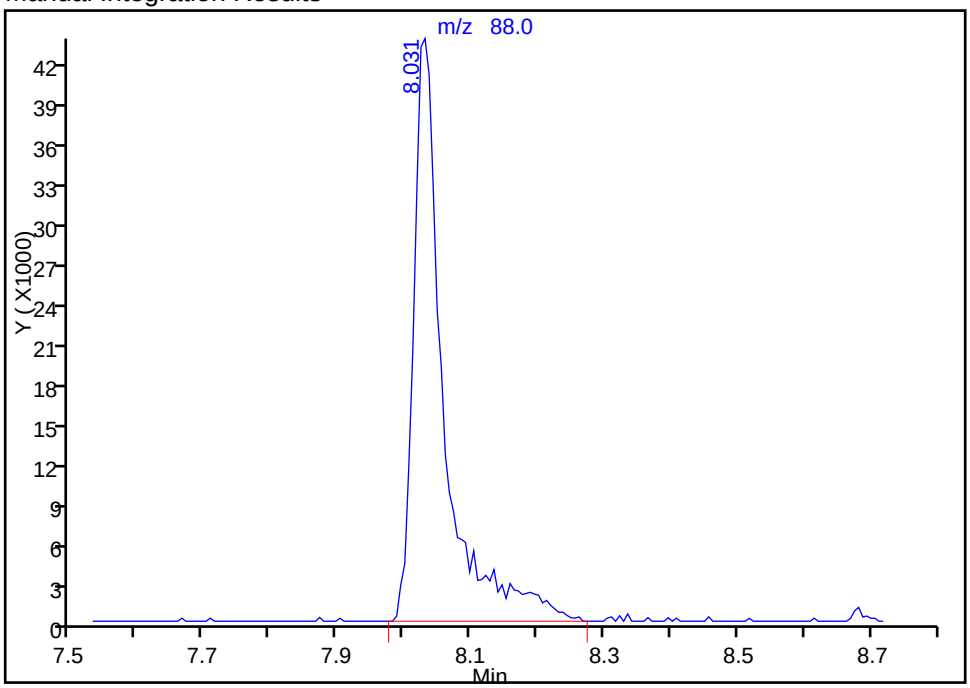
Processing Integration Results

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

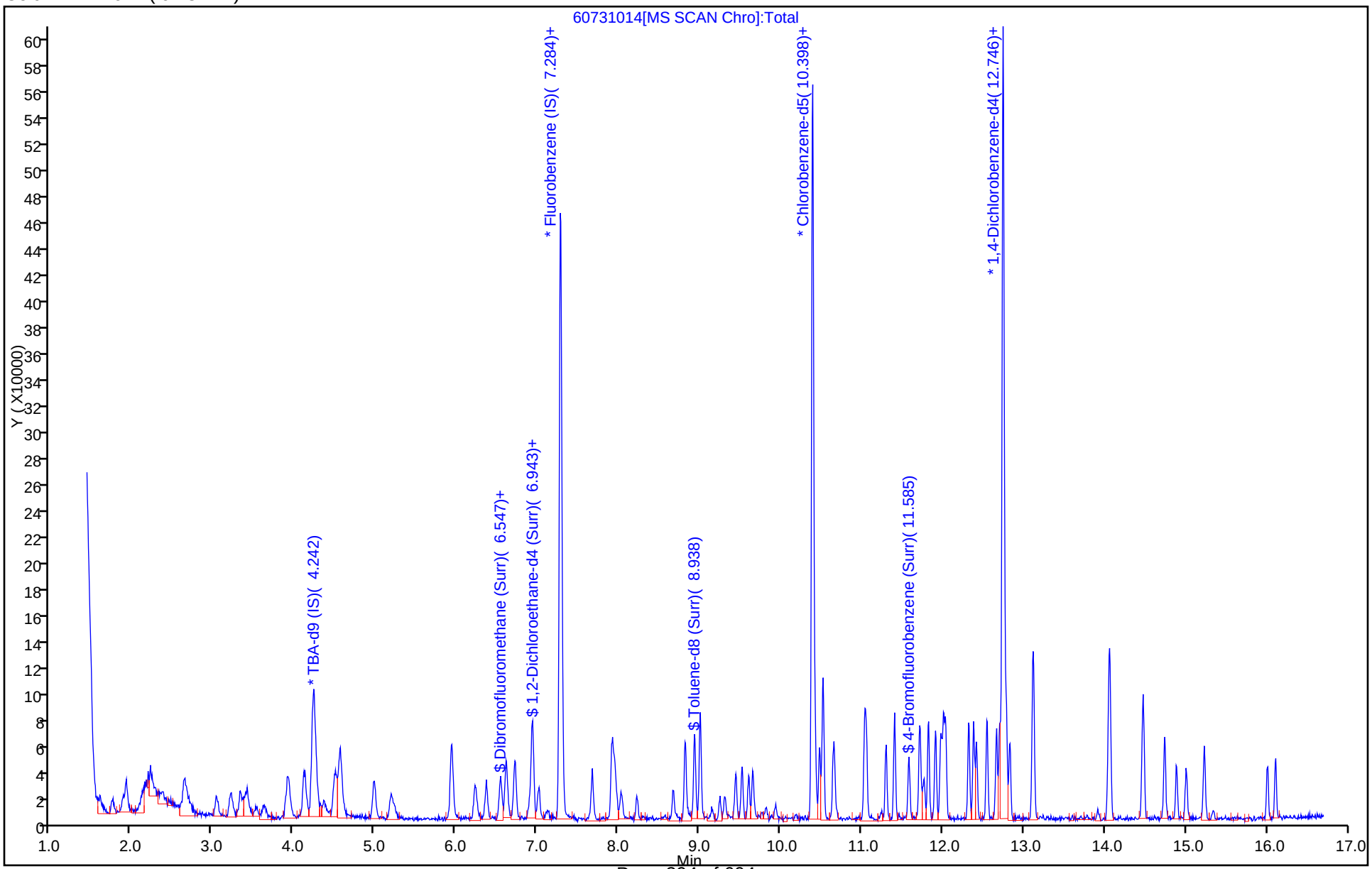
Report Date: 03-Aug-2015 12:57:06 Chrom Revision: 2.2 09-Jul-2015 10:16:20

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

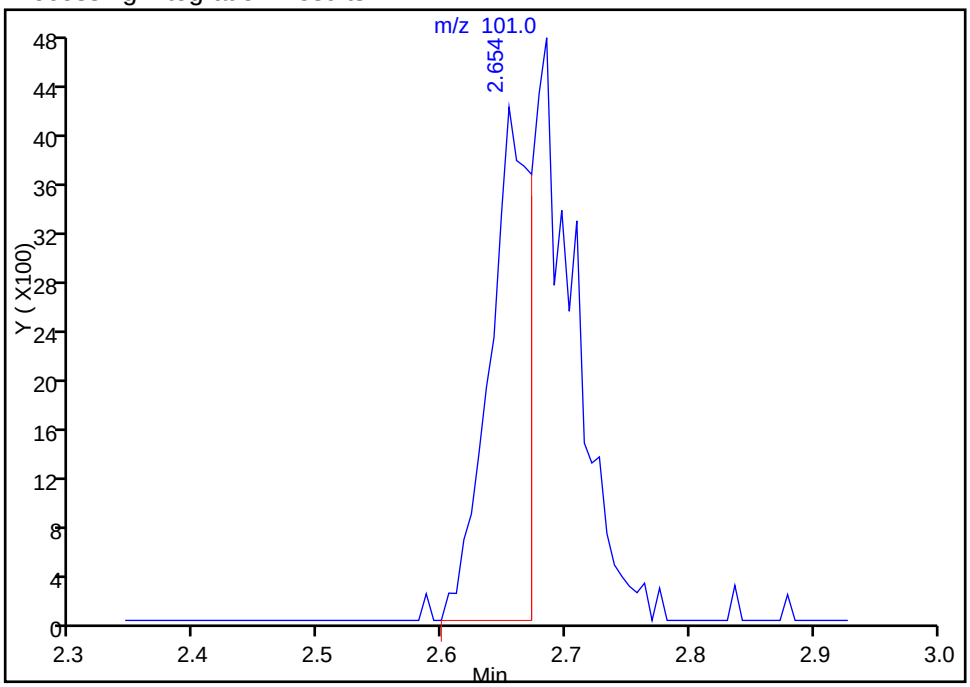
TestAmerica Pittsburgh

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

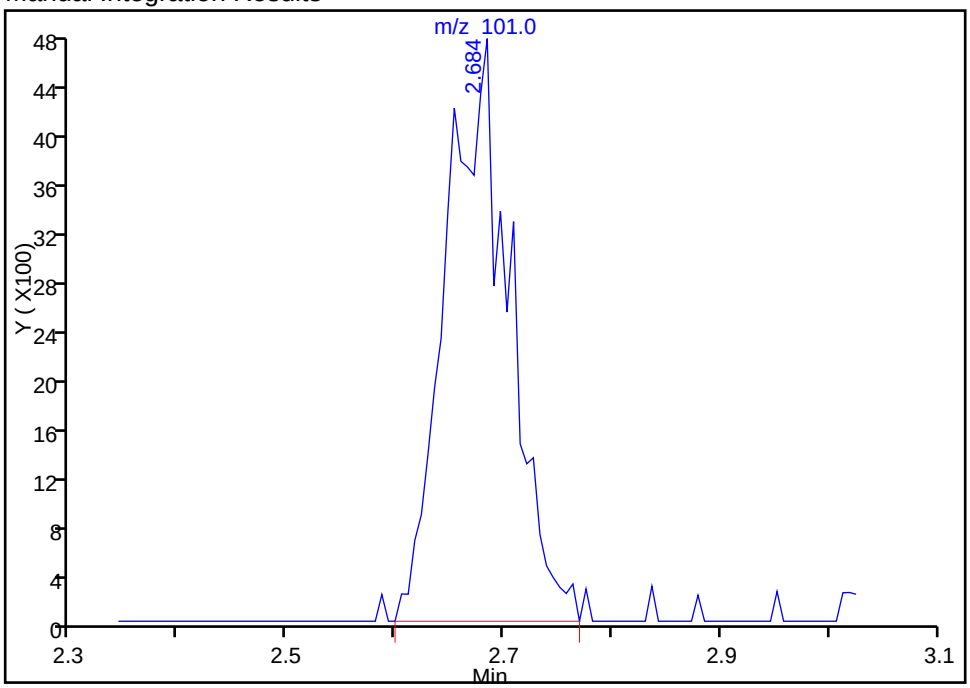
Processing Integration Results

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

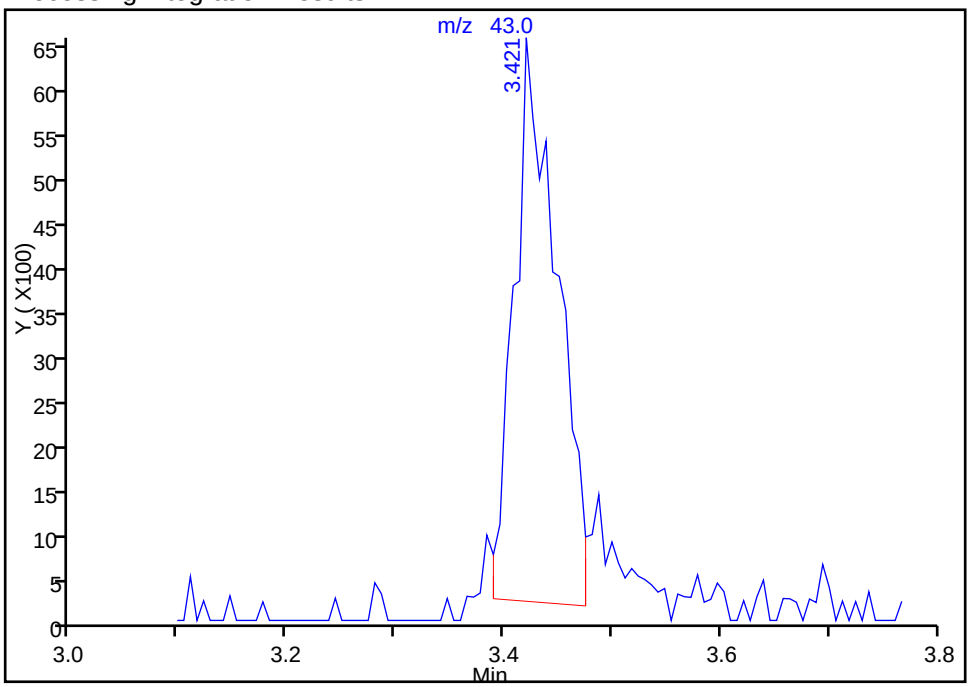
TestAmerica Pittsburgh

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

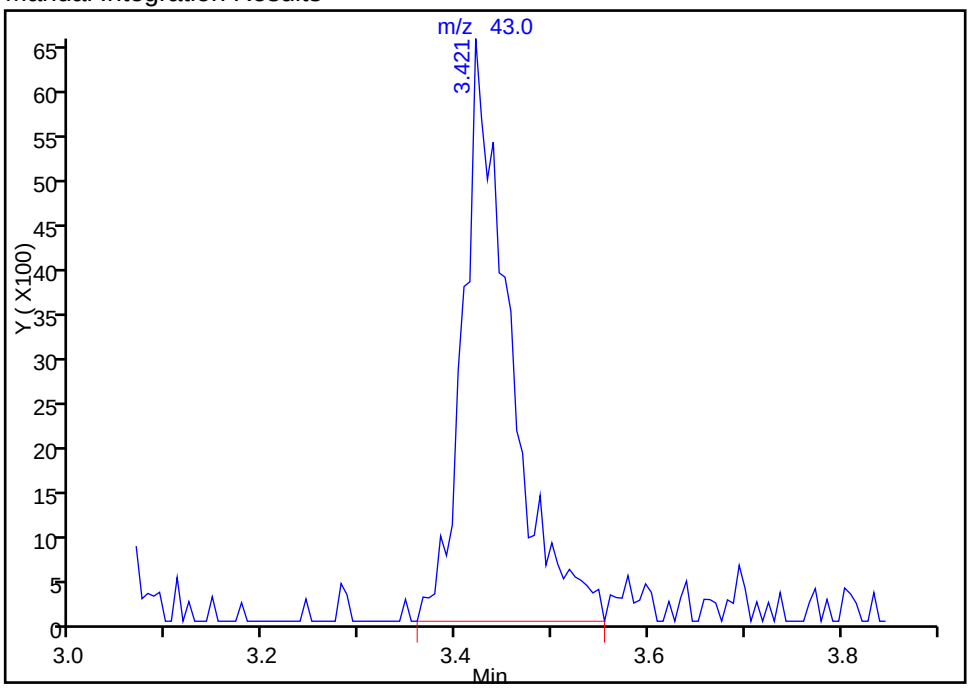
Processing Integration Results

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

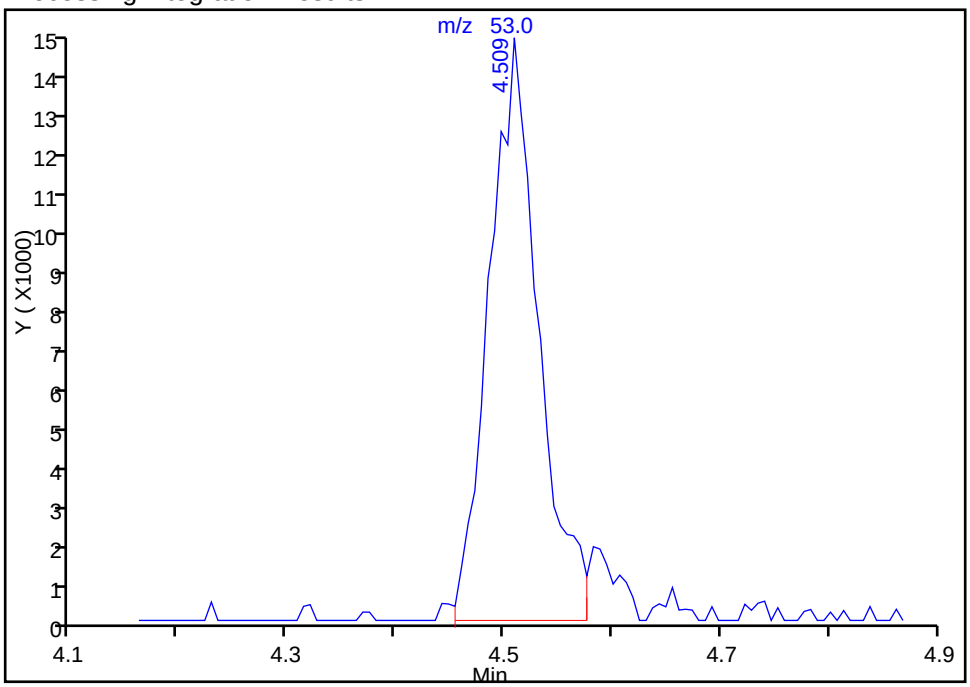
TestAmerica Pittsburgh

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

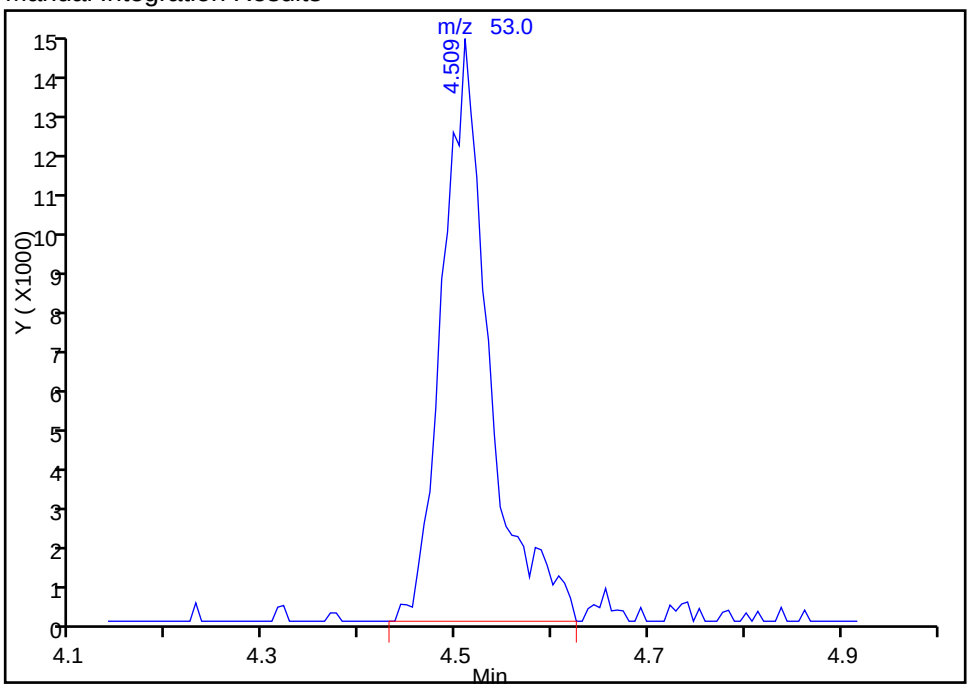
Processing Integration Results

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

Manual Integration/User Assign Peak Report

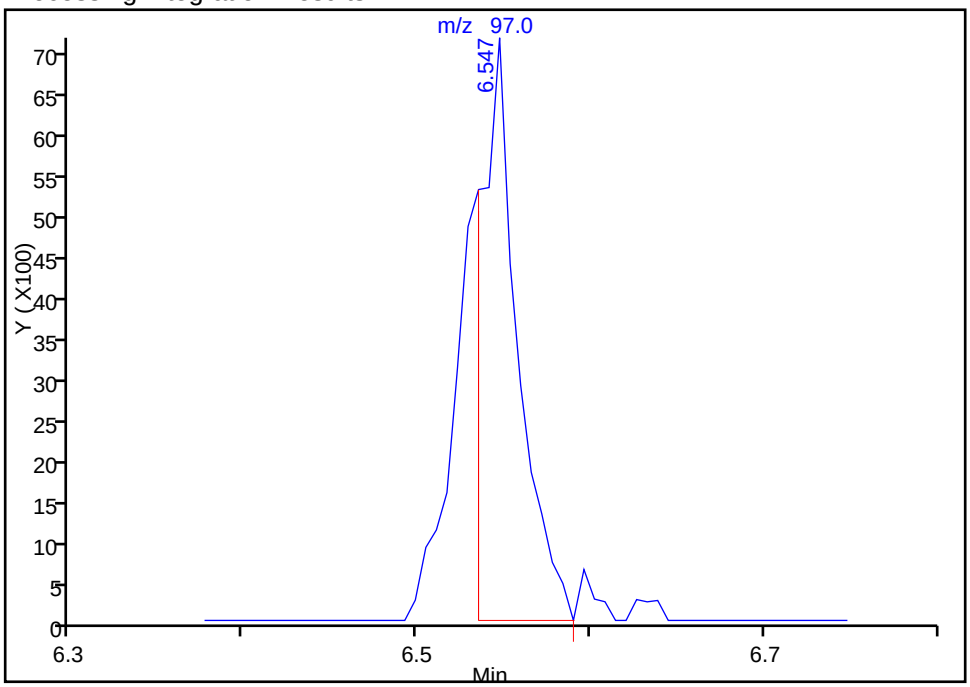
TestAmerica Pittsburgh

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

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

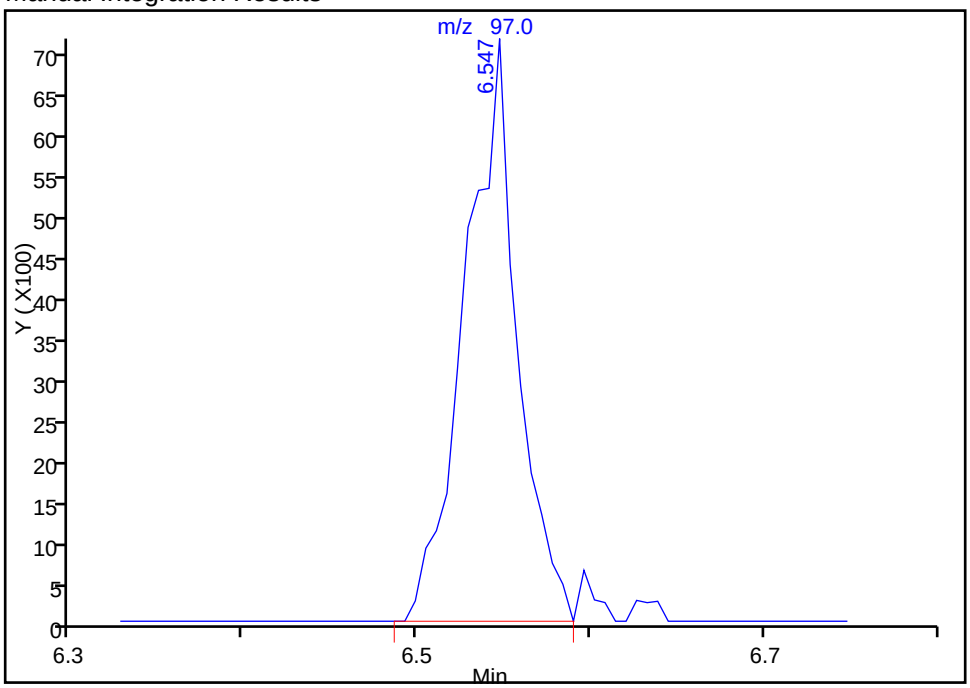
Processing Integration Results

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

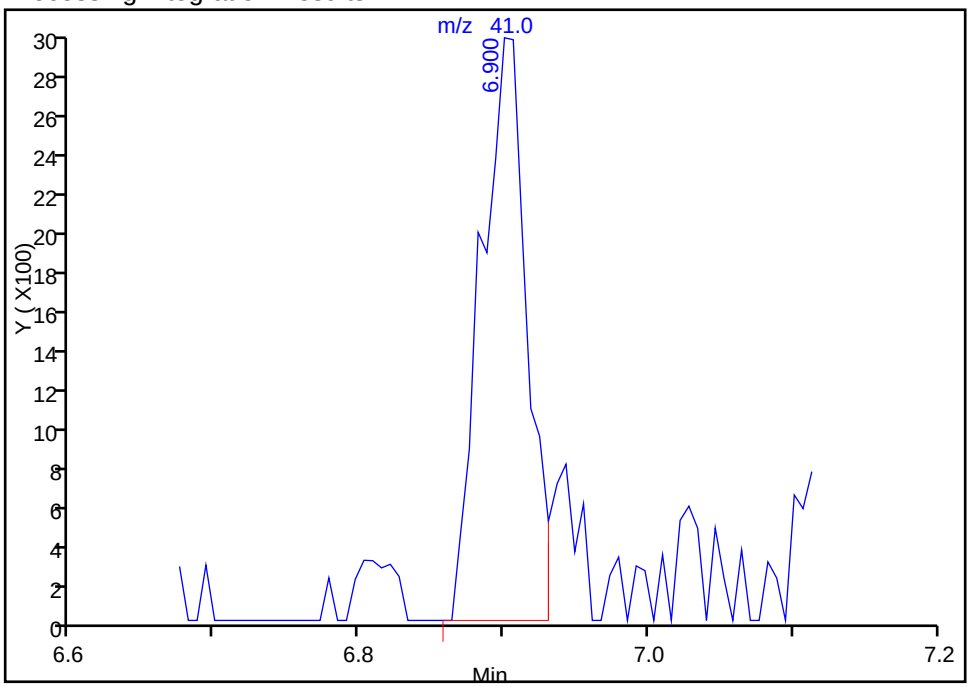
TestAmerica Pittsburgh

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

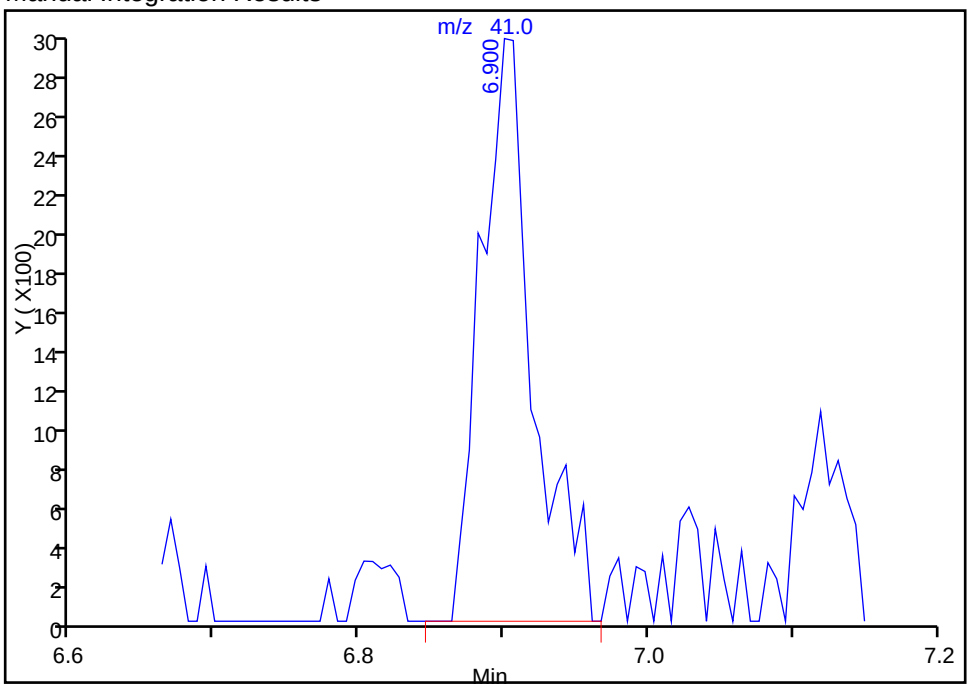
Processing Integration Results

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.: 180-47935-1

SDG No.:

Lab Sample ID: CCVIS 180-155089/2 Calibration Date: 09/28/2015 11:03

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: 60928002.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	0.3043	0.1000	8.79	10.0	-12.1	20.0
Chloromethane	Ave	0.2984	0.3100	0.1000	10.4	10.0	3.9	20.0
Vinyl chloride	Ave	0.3214	0.3022	0.1000	9.40	10.0	-6.0	20.0
1,3-Butadiene	Ave	0.3013	0.3381	0.0100	11.2	10.0	12.2	20.0
Bromomethane	Ave	0.1735	0.1407	0.0500	8.11	10.0	-18.9	20.0
Chloroethane	Ave	0.2194	0.1907	0.0500	8.69	10.0	-13.1	20.0
Dichlorofluoromethane	Ave	0.5106	0.4478	0.0100	8.77	10.0	-12.3	20.0
Trichlorofluoromethane	Ave	0.4072	0.3440	0.1000	8.45	10.0	-15.5	20.0
Ethyl ether	Ave	0.2886	0.2856	0.0100	9.89	10.0	-1.1	20.0
Acrolein	Ave	0.0315	0.0254	0.0100	24.2	30.0	-19.4	20.0
1,1-Dichloroethene	Ave	0.2517	0.2389	0.1000	9.49	10.0	-5.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2657	0.2475	0.1000	9.31	10.0	-6.9	20.0
Acetone	Ave	0.0885	0.0865	0.0500	19.6	20.0	-2.2	20.0
Iodomethane	Ave	0.3379	0.3534	0.0100	10.5	10.0	4.6	20.0
Carbon disulfide	Ave	0.6522	0.6368	0.1000	9.76	10.0	-2.4	20.0
Allyl chloride	Ave	0.1419	0.1377	0.0100	9.70	10.0	-3.0	20.0
Methyl acetate	Ave	0.2074	0.2371	0.1000	57.1	50.0	14.3	20.0
Methylene Chloride	Lin2		0.3036	0.1000	8.56	10.0	-14.4	20.0
tert-Butyl alcohol	Ave	1.125	1.045	0.0100	92.9	100	-7.1	20.0
Acrylonitrile	Ave	0.1046	0.1091	0.0100	104	100	4.4	20.0
trans-1,2-Dichloroethene	Ave	0.2905	0.2655	0.1000	9.14	10.0	-8.6	20.0
Methyl tert-butyl ether	Ave	0.8703	0.8010	0.1000	9.20	10.0	-8.0	20.0
Hexane	Ave	0.3936	0.4611	0.0100	11.7	10.0	17.1	20.0
1,1-Dichloroethane	Ave	0.5200	0.5183	0.2000	9.97	10.0	-0.3	20.0
Vinyl acetate	Ave	0.4197	0.4614	0.0100	11.0	10.0	9.9	20.0
cis-1,2-Dichloroethene	Ave	0.3158	0.2973	0.1000	9.41	10.0	-5.9	20.0
2,2-Dichloropropane	Ave	0.2629	0.2411	0.0100	9.17	10.0	-8.3	20.0
2-Butanone (MEK)	Ave	0.1207	0.1349	0.0500	22.3	20.0	11.7	20.0
Bromochloromethane	Ave	0.1269	0.1193	0.0100	9.40	10.0	-6.0	20.0
Tetrahydrofuran	Ave	0.0813	0.0961	0.0100	23.6	20.0	18.1	20.0
Chloroform	Ave	0.5161	0.4723	0.2000	9.15	10.0	-8.5	20.0
1,1,1-Trichloroethane	Ave	0.3814	0.3623	0.1000	9.50	10.0	-5.0	20.0
Cyclohexane	Ave	0.4886	0.5468	0.1000	11.2	10.0	11.9	20.0
Carbon tetrachloride	Ave	0.2694	0.2700	0.1000	10.0	10.0	0.2	20.0
1,1-Dichloropropene	Ave	0.4102	0.4065	0.0100	9.91	10.0	-0.9	20.0
Isobutyl alcohol	Ave	0.0072	0.0077*	0.0100	266	250	6.4	20.0
Benzene	Ave	1.165	1.160	0.5000	9.95	10.0	-0.5	20.0
1,2-Dichloroethane	Ave	0.4694	0.4581	0.1000	9.76	10.0	-2.4	20.0
n-Heptane	Ave	0.3168	0.4341	0.0100	13.7	10.0	37.0*	20.0
Trichloroethene	Ave	0.2430	0.2663	0.2000	11.0	10.0	9.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: CCVIS 180-155089/2 Calibration Date: 09/28/2015 11:03

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: 60928002.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	0.4857	0.1000	9.85	10.0	-1.5	20.0
1,2-Dichloropropane	Ave	0.2784	0.2979	0.1000	10.7	10.0	7.0	20.0
1,4-Dioxane	Ave	0.0027	0.0028*	0.0100	203	200	1.7	20.0
Dibromomethane	Ave	0.1690	0.1602	0.0100	9.48	10.0	-5.2	20.0
Bromodichloromethane	Ave	0.3176	0.2996	0.2000	9.43	10.0	-5.7	20.0
cis-1,3-Dichloropropene	Ave	0.3489	0.3780	0.2000	10.8	10.0	8.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.028	1.000	0.1000	19.5	20.0	-2.7	20.0
Toluene	Ave	5.159	5.048	0.4000	9.78	10.0	-2.2	20.0
trans-1,3-Dichloropropene	Ave	1.310	1.325	0.1000	10.1	10.0	1.1	20.0
Ethyl methacrylate	Ave	1.391	1.420	0.0100	10.2	10.0	2.1	20.0
1,1,2-Trichloroethane	Ave	1.067	1.008	0.1000	9.45	10.0	-5.5	20.0
Tetrachloroethene	Ave	0.8800	0.9364	0.2000	10.6	10.0	6.4	20.0
1,3-Dichloropropane	Ave	1.971	1.952	0.0100	9.90	10.0	-1.0	20.0
2-Hexanone	Ave	0.6750	0.8336	0.1000	24.7	20.0	23.5*	20.0
Dibromochloromethane	Ave	0.7283	0.7527	0.1000	10.3	10.0	3.4	20.0
1,2-Dibromoethane (EDB)	Ave	0.9442	0.9452	0.1000	10.0	10.0	0.1	20.0
3-Chlorobenzotrifluoride	Ave	1.652	1.712	0.0100	10.4	10.0	3.6	20.0
Chlorobenzene	Ave	3.171	3.208	0.5000	10.1	10.0	1.2	20.0
4-Chlorobenzotrifluoride	Ave	1.531	1.582	0.0100	10.3	10.0	3.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8691	0.9282	0.0100	10.7	10.0	6.8	20.0
Ethylbenzene	Ave	1.789	1.823	0.1000	10.2	10.0	1.9	20.0
m-Xylene & p-Xylene	Ave	2.220	2.289	0.1000	10.3	10.0	3.1	20.0
o-Xylene	Ave	2.221	2.208	0.3000	9.94	10.0	-0.6	20.0
Styrene	Ave	3.411	3.537	0.3000	10.4	10.0	3.7	20.0
Bromoform	Ave	0.3887	0.4222	0.1000	10.9	10.0	8.6	20.0
2-Chlorobenzotrifluoride	Ave	1.692	1.685	0.0100	9.96	10.0	-0.4	20.0
Isopropylbenzene	Ave	5.314	5.489	0.1000	10.3	10.0	3.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.428	1.239	0.3000	8.68	10.0	-13.2	20.0
Bromobenzene	Ave	0.8038	0.8279	0.0100	10.3	10.0	3.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2549	0.2221	0.0100	8.71	10.0	-12.9	20.0
1,2,3-Trichloropropane	Ave	0.3057	0.2693	0.0100	8.81	10.0	-11.9	20.0
N-Propylbenzene	Ave	0.9257	0.9103	0.0100	9.83	10.0	-1.7	20.0
2-Chlorotoluene	Ave	0.7686	0.7704	0.0100	10.0	10.0	0.2	20.0
3-Chlorotoluene	Ave	0.8072	0.8128	0.0100	10.1	10.0	0.7	20.0
1,3,5-Trimethylbenzene	Ave	3.010	2.912	0.0100	9.68	10.0	-3.2	20.0
4-Chlorotoluene	Ave	0.8119	0.7869	0.0100	9.69	10.0	-3.1	20.0
tert-Butylbenzene	Ave	2.378	2.288	0.0100	9.62	10.0	-3.8	20.0
1,2,4-Trimethylbenzene	Ave	3.078	2.981	0.0100	9.69	10.0	-3.1	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.8719	0.8556	0.0100	9.81	10.0	-1.9	20.0
sec-Butylbenzene	Ave	3.550	3.439	0.0100	9.69	10.0	-3.1	20.0
1,3-Dichlorobenzene	Ave	1.570	1.476	0.6000	9.40	10.0	-6.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: CCVIS 180-155089/2 Calibration Date: 09/28/2015 11:03

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: 60928002.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	2.784	0.0100	9.35	10.0	-6.5	20.0
1,4-Dichlorobenzene	Ave	1.605	1.560	0.5000	9.72	10.0	-2.8	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.8674	0.8549	0.0100	9.86	10.0	-1.4	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.9687	0.8947	0.0100	9.24	10.0	-7.6	20.0
n-Butylbenzene	Ave	2.974	2.698	0.0100	9.07	10.0	-9.3	20.0
1,2-Dichlorobenzene	Ave	1.585	1.442	0.4000	9.09	10.0	-9.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1454	0.1102	0.0500	7.58	10.0	-24.2*	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.380	1.235	0.0100	26.9	30.0	-10.5	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.522	1.347	0.0100	17.7	20.0	-11.5	20.0
1,2,4-Trichlorobenzene	Ave	1.229	1.099	0.2000	8.94	10.0	-10.6	20.0
Hexachlorobutadiene	Ave	0.4839	0.4632	0.0100	9.57	10.0	-4.3	20.0
Naphthalene	Ave	2.479	2.398	0.0100	9.67	10.0	-3.3	20.0
1,2,3-Trichlorobenzene	Ave	1.150	0.9934	0.0100	8.64	10.0	-13.6	20.0
2,4,5-Trichlorotoluene	Ave	0.7719	0.6681	0.0100	8.66	10.0	-13.4	20.0
2,3,6-Trichlorotoluene	Ave	0.7323	0.6491	0.0100	8.86	10.0	-11.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2303	0.2200		9.55	10.0	-4.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3715	0.3523		9.48	10.0	-5.2	20.0
Toluene-d8 (Surr)	Ave	3.944	3.867		9.81	10.0	-1.9	20.0
4-Bromofluorobenzene (Surr)	Ave	1.751	1.612		9.21	10.0	-7.9	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 28-Sep-2015 11:03:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008724-002
Operator ID: 034635 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 28-Sep-2015 13:27:51 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: XAWRK009

First Level Reviewer: fergusond Date: 28-Sep-2015 11:24:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.241	4.241	0.000	92	194313	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.283	0.000	97	501521	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	90	120842	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	97	193962	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.547	6.547	0.000	94	110311	50.0	47.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	74	176677	50.0	47.4	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	467342	50.0	49.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	85	194837	50.0	46.0	
11 Dichlorodifluoromethane	85	1.613	1.613	0.000	100	152632	50.0	43.9	
12 Chloromethane	50	1.765	1.765	0.000	99	155491	50.0	51.9	
13 Vinyl chloride	62	1.905	1.905	0.000	98	151570	50.0	47.0	
14 Butadiene	39	1.942	1.942	0.000	97	169550	50.0	56.1	
15 Bromomethane	94	2.240	2.240	0.000	91	70556	50.0	40.5	
16 Chloroethane	64	2.380	2.380	0.000	99	95629	50.0	43.5	
17 Dichlorofluoromethane	67	2.654	2.654	0.000	99	224577	50.0	43.9	
18 Trichlorofluoromethane	101	2.684	2.684	0.000	94	172520	50.0	42.2	
20 Ethyl ether	59	3.037	3.037	0.000	94	143222	50.0	49.5	
21 Acrolein	56	3.213	3.213	0.000	99	38175	150.0	120.9	
22 1,1-Dichloroethene	96	3.341	3.341	0.000	95	119805	50.0	47.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.402	3.402	0.000	94	124099	50.0	46.6	
24 Acetone	43	3.426	3.426	0.000	76	86787	100.0	97.8	
25 Iodomethane	142	3.530	3.530	0.000	100	177220	50.0	52.3	
26 Carbon disulfide	76	3.633	3.633	0.000	99	319379	50.0	48.8	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	65	69054	50.0	48.5	
30 Methyl acetate	43	3.919	3.919	0.000	97	594429	250.0	285.7	
31 Methylene Chloride	84	4.126	4.126	0.000	98	152274	50.0	42.8	
32 2-Methyl-2-propanol	59	4.387	4.387	0.000	90	101545	500.0	464.4	
33 Acrylonitrile	53	4.503	4.503	0.000	97	547353	500.0	521.9	
34 trans-1,2-Dichloroethene	96	4.558	4.558	0.000	94	133138	50.0	45.7	
35 Methyl tert-butyl ether	73	4.564	4.564	0.000	99	401721	50.0	46.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.984	0.000	94	231245	50.0	58.6	
37 1,1-Dichloroethane	63	5.190	5.190	0.000	97	259937	50.0	49.8	
38 Vinyl acetate	43	5.239	5.239	0.000	98	231378	50.0	55.0	
43 cis-1,2-Dichloroethene	96	5.933	5.933	0.000	85	149119	50.0	47.1	
42 2,2-Dichloropropane	77	5.939	5.939	0.000	68	120922	50.0	45.9	
44 2-Butanone (MEK)	43	5.951	5.951	0.000	68	135283	100.0	111.7	
48 Chlorobromomethane	128	6.225	6.225	0.000	91	59807	50.0	47.0	
49 Tetrahydrofuran	42	6.243	6.243	0.000	89	96353	100.0	118.1	
50 Chloroform	83	6.371	6.371	0.000	95	236883	50.0	45.8	
51 1,1,1-Trichloroethane	97	6.535	6.535	0.000	96	181676	50.0	47.5	
52 Cyclohexane	56	6.620	6.620	0.000	96	274231	50.0	56.0	
53 Carbon tetrachloride	117	6.717	6.717	0.000	96	135416	50.0	50.1	
54 1,1-Dichloropropene	75	6.730	6.730	0.000	92	203866	50.0	49.6	
55 Isobutyl alcohol	41	6.900	6.900	0.000	92	96517	1250.0	1330.2	
56 Benzene	78	6.942	6.942	0.000	98	581610	50.0	49.8	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	98	229735	50.0	48.8	
59 n-Heptane	43	7.307	7.307	0.000	95	217719	50.0	68.5	
61 Trichloroethene	130	7.679	7.679	0.000	96	133570	50.0	54.8	
63 Methylcyclohexane	83	7.922	7.922	0.000	94	243574	50.0	49.2	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	86	149396	50.0	53.5	
67 Dibromomethane	93	8.038	8.038	0.000	95	80350	50.0	47.4	
65 1,4-Dioxane	88	8.038	8.038	0.000	88	28021	1000.0	1016.7	M
68 Dichlorobromomethane	83	8.232	8.232	0.000	98	150253	50.0	47.2	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	91	189582	50.0	54.2	
72 4-Methyl-2-pentanone (MIBK	43	8.822	8.822	0.000	96	241787	100.0	97.3	
73 Toluene	91	9.011	9.011	0.000	98	609957	50.0	48.9	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	99	160080	50.0	50.6	
75 Ethyl methacrylate	69	9.315	9.315	0.000	90	171561	50.0	51.0	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	95	121817	50.0	47.2	
77 Tetrachloroethene	164	9.528	9.528	0.000	94	113157	50.0	53.2	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	96	235922	50.0	49.5	
79 2-Hexanone	43	9.656	9.656	0.000	97	201464	100.0	123.5	
81 Chlorodibromomethane	129	9.820	9.820	0.000	91	90961	50.0	51.7	
82 Ethylene Dibromide	107	9.936	9.936	0.000	99	114217	50.0	50.1	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	91	206832	50.0	51.8	
84 Chlorobenzene	112	10.428	10.428	0.000	91	387686	50.0	50.6	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	97	191150	50.0	51.7	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	87	112164	50.0	53.4	
87 Ethylbenzene	106	10.526	10.526	0.000	99	220289	50.0	51.0	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	99	276573	50.0	51.5	
89 o-Xylene	106	11.037	11.037	0.000	98	266861	50.0	49.7	
90 Styrene	104	11.061	11.061	0.000	94	427465	50.0	51.9	
91 Bromoform	173	11.244	11.244	0.000	94	51024	50.0	54.3	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	95	203614	50.0	49.8	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	663339	50.0	51.6	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	96	149767	50.0	43.4	
95 Bromobenzene	156	11.724	11.724	0.000	98	160573	50.0	51.5	
97 trans-1,4-Dichloro-2-buten	53	11.748	11.748	0.000	80	43076	50.0	43.6	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	85	52242	50.0	44.1	
99 N-Propylbenzene	120	11.828	11.828	0.000	99	176565	50.0	49.2	
100 2-Chlorotoluene	126	11.913	11.913	0.000	94	149428	50.0	50.1	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	157645	50.0	50.3	

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	94	564818	50.0	48.4	
103 4-Chlorotoluene	126	12.040	12.040	0.000	100	152632	50.0	48.5	
104 tert-Butylbenzene	119	12.326	12.326	0.000	92	443712	50.0	48.1	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	98	578280	50.0	48.4	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	97	165959	50.0	49.1	
108 sec-Butylbenzene	105	12.551	12.551	0.000	96	667116	50.0	48.4	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	95	286378	50.0	47.0	
110 4-Isopropyltoluene	119	12.704	12.704	0.000	95	540061	50.0	46.7	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	88	302644	50.0	48.6	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	95	165808	50.0	49.3	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	98	173529	50.0	46.2	
116 n-Butylbenzene	91	13.111	13.111	0.000	98	523261	50.0	45.4	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	94	279606	50.0	45.5	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.914	0.000	72	21367	50.0	37.9	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	99	718745	150.0	134.3	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	98	522395	100.0	88.5	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	93	213076	50.0	44.7	
123 Hexachlorobutadiene	225	14.894	14.894	0.000	96	89843	50.0	47.9	
124 Naphthalene	128	15.009	15.009	0.000	99	465186	50.0	48.4	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	94	192672	50.0	43.2	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	129588	50.0	43.3	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	93	125908	50.0	44.3	
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	101.3	
S 130 1,2-Dichloroethene, Total	96				0		100.0	92.8	
S 132 1,3-Dichloropropene, Total	1				0		100.0	104.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00145	Amount Added:	2.00	Units: uL		
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL		
VOAVAPRI_00007	Amount Added:	2.00	Units: uL		
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
voaWEEpri Res_00005	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	

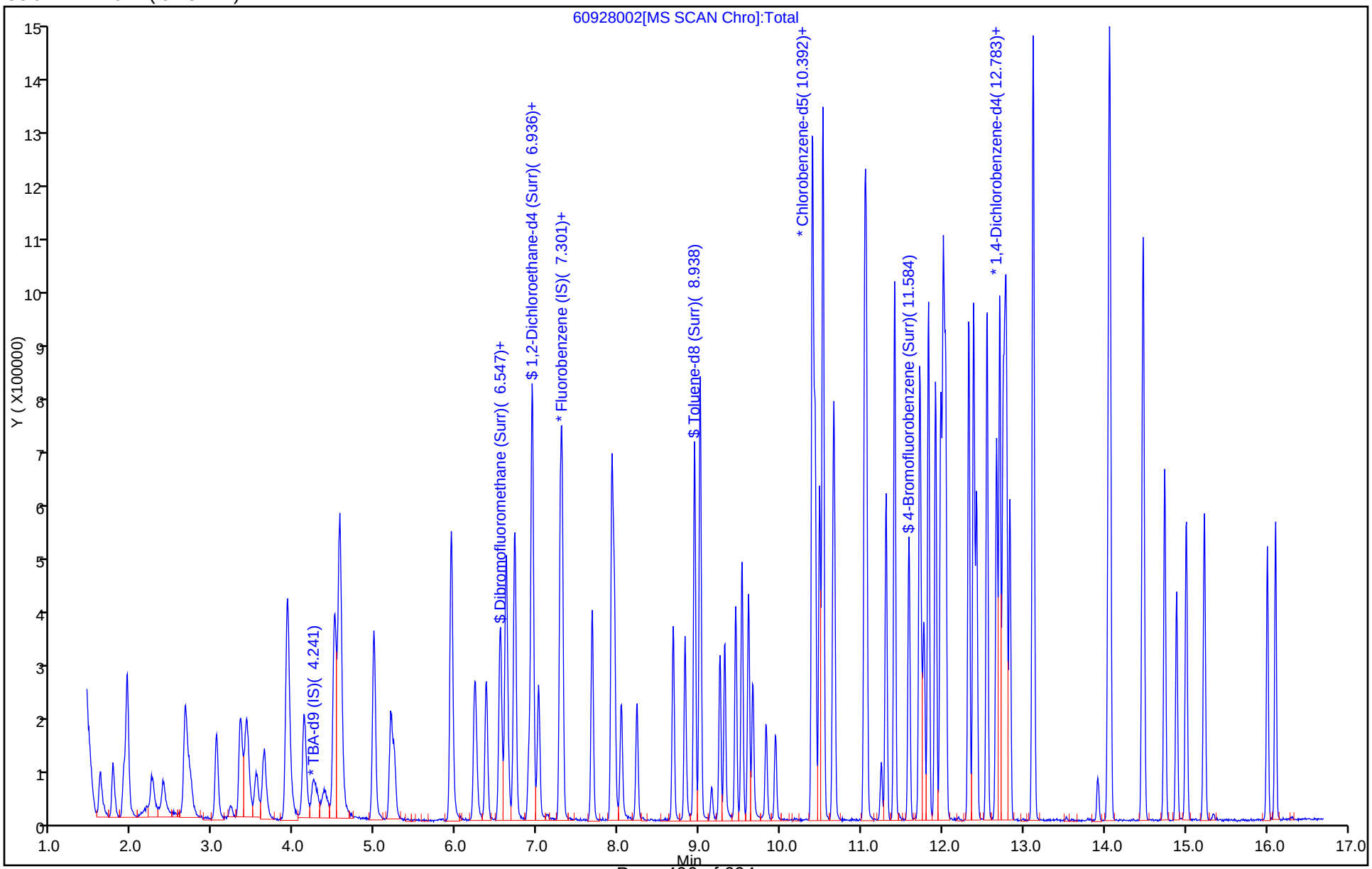
Report Date: 28-Sep-2015 13:27:52 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928002.D

Injection Date:	28-Sep-2015 11:03:30	Instrument ID:	CHHP6	Operator ID:	034635
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

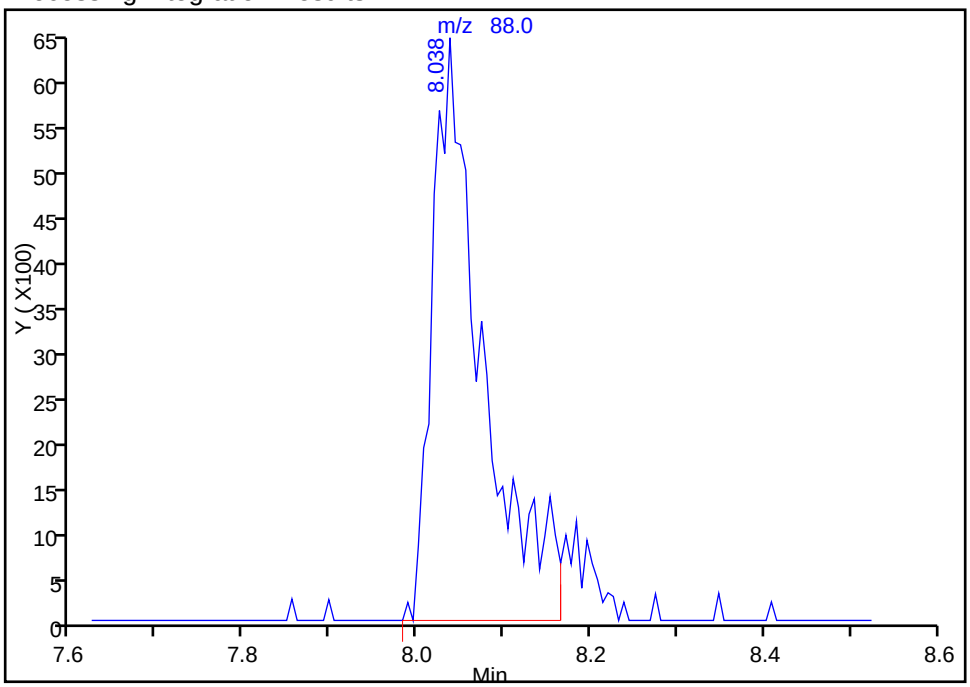
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928002.D
Injection Date: 28-Sep-2015 11:03:30 Instrument ID: CHHP6
Lims ID: CCVIS
Client ID:
Operator ID: 034635 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

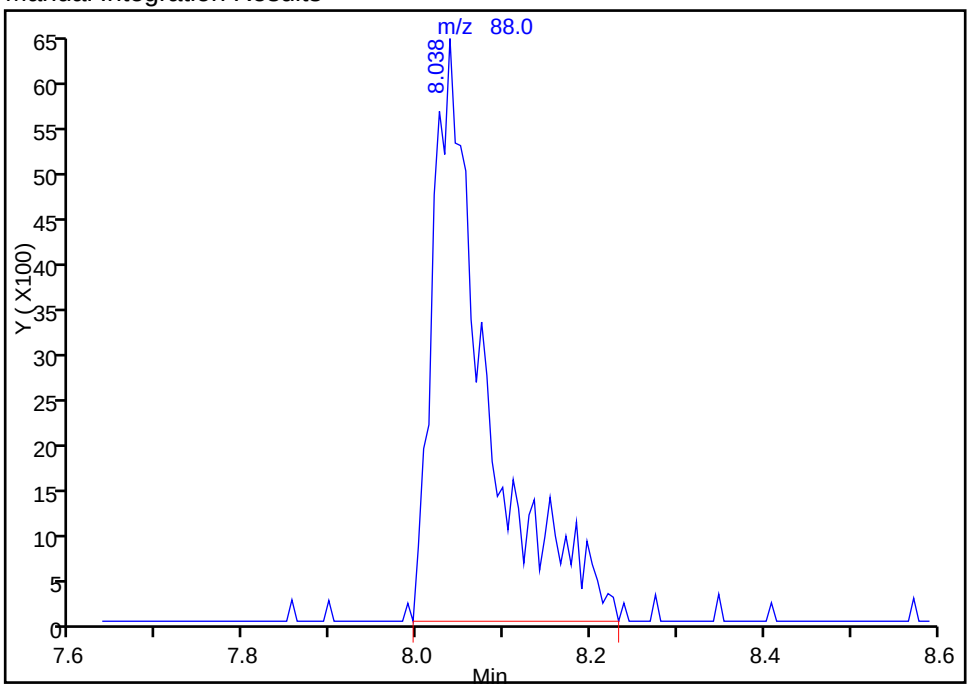
Processing Integration Results

RT: 8.04
Area: 25976
Amount: 942.4574
Amount Units: ng



Manual Integration Results

RT: 8.04
Area: 28021
Amount: 1016.6538
Amount Units: ng



Reviewer: fergusond, 28-Sep-2015 11:24:43
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: CCVIS 180-155230/2 Calibration Date: 09/29/2015 11:39

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: 60929002.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	0.3032	0.1000	8.76	10.0	-12.4	20.0
Chloromethane	Ave	0.2984	0.2975	0.1000	9.97	10.0	-0.3	20.0
Vinyl chloride	Ave	0.3214	0.3077	0.1000	9.57	10.0	-4.3	20.0
1,3-Butadiene	Ave	0.3013	0.3315	0.0100	11.0	10.0	10.0	20.0
Bromomethane	Ave	0.1735	0.1385	0.0500	7.98	10.0	-20.2*	20.0
Chloroethane	Ave	0.2194	0.2024	0.0500	9.23	10.0	-7.7	20.0
Dichlorofluoromethane	Ave	0.5106	0.4443	0.0100	8.70	10.0	-13.0	20.0
Trichlorofluoromethane	Ave	0.4072	0.3516	0.1000	8.63	10.0	-13.7	20.0
Ethyl ether	Ave	0.2886	0.2892	0.0100	10.0	10.0	0.2	20.0
Acrolein	Ave	0.0315	0.0305	0.0100	29.0	30.0	-3.2	20.0
1,1-Dichloroethene	Ave	0.2517	0.2298	0.1000	9.13	10.0	-8.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2657	0.2610	0.1000	9.82	10.0	-1.8	20.0
Acetone	Ave	0.0885	0.1008	0.0500	22.8	20.0	13.9	20.0
Iodomethane	Ave	0.3379	0.3435	0.0100	10.2	10.0	1.7	20.0
Carbon disulfide	Ave	0.6522	0.5911	0.1000	9.06	10.0	-9.4	20.0
Allyl chloride	Ave	0.1419	0.1225	0.0100	8.63	10.0	-13.7	20.0
Methyl acetate	Ave	0.2074	0.2343	0.1000	56.5	50.0	13.0	20.0
Methylene Chloride	Lin2		0.3040	0.1000	8.58	10.0	-14.2	20.0
tert-Butyl alcohol	Ave	1.125	1.211	0.0100	108	100	7.6	20.0
Acrylonitrile	Ave	0.1046	0.1116	0.0100	107	100	6.7	20.0
trans-1,2-Dichloroethene	Ave	0.2905	0.2609	0.1000	8.98	10.0	-10.2	20.0
Methyl tert-butyl ether	Ave	0.8703	0.7316	0.1000	8.41	10.0	-15.9	20.0
Hexane	Ave	0.3936	0.4389	0.0100	11.2	10.0	11.5	20.0
1,1-Dichloroethane	Ave	0.5200	0.5080	0.2000	9.77	10.0	-2.3	20.0
Vinyl acetate	Ave	0.4197	0.5185	0.0100	12.4	10.0	23.5*	20.0
2,2-Dichloropropane	Ave	0.2629	0.2191	0.0100	8.34	10.0	-16.6	20.0
cis-1,2-Dichloroethene	Ave	0.3158	0.2741	0.1000	8.68	10.0	-13.2	20.0
2-Butanone (MEK)	Ave	0.1207	0.1347	0.0500	22.3	20.0	11.6	20.0
Bromochloromethane	Ave	0.1269	0.1328	0.0100	10.5	10.0	4.6	20.0
Tetrahydrofuran	Ave	0.0813	0.0867	0.0100	21.3	20.0	6.7	20.0
Chloroform	Ave	0.5161	0.4763	0.2000	9.23	10.0	-7.7	20.0
1,1,1-Trichloroethane	Ave	0.3814	0.3587	0.1000	9.40	10.0	-6.0	20.0
Cyclohexane	Ave	0.4886	0.5073	0.1000	10.4	10.0	3.8	20.0
Carbon tetrachloride	Ave	0.2694	0.2783	0.1000	10.3	10.0	3.3	20.0
1,1-Dichloropropene	Ave	0.4102	0.3955	0.0100	9.64	10.0	-3.6	20.0
Isobutyl alcohol	Ave	0.0072	0.0077*	0.0100	266	250	6.3	20.0
Benzene	Ave	1.165	1.159	0.5000	9.95	10.0	-0.5	20.0
1,2-Dichloroethane	Ave	0.4694	0.4815	0.1000	10.3	10.0	2.6	20.0
n-Heptane	Ave	0.3168	0.4225	0.0100	13.3	10.0	33.4*	20.0
Trichloroethene	Ave	0.2430	0.2606	0.2000	10.7	10.0	7.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: CCVIS 180-155230/2 Calibration Date: 09/29/2015 11:39

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: 60929002.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	0.4749	0.1000	9.63	10.0	-3.7	20.0
1,2-Dichloropropane	Ave	0.2784	0.3028	0.1000	10.9	10.0	8.8	20.0
1,4-Dioxane	Ave	0.0027	0.0029*	0.0100	208	200	4.1	20.0
Dibromomethane	Ave	0.1690	0.1665	0.0100	9.85	10.0	-1.5	20.0
Bromodichloromethane	Ave	0.3176	0.2999	0.2000	9.44	10.0	-5.6	20.0
cis-1,3-Dichloropropene	Ave	0.3489	0.3386	0.2000	9.71	10.0	-2.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.028	0.9644	0.1000	18.8	20.0	-6.2	20.0
Toluene	Ave	5.159	5.104	0.4000	9.89	10.0	-1.1	20.0
trans-1,3-Dichloropropene	Ave	1.310	1.258	0.1000	9.61	10.0	-3.9	20.0
Ethyl methacrylate	Ave	1.391	1.339	0.0100	9.62	10.0	-3.8	20.0
1,1,2-Trichloroethane	Ave	1.067	1.026	0.1000	9.61	10.0	-3.9	20.0
Tetrachloroethene	Ave	0.8800	0.9236	0.2000	10.5	10.0	5.0	20.0
1,3-Dichloropropane	Ave	1.971	2.009	0.0100	10.2	10.0	1.9	20.0
2-Hexanone	Ave	0.6750	0.7838	0.1000	23.2	20.0	16.1	20.0
Dibromochloromethane	Ave	0.7283	0.7382	0.1000	10.1	10.0	1.4	20.0
1,2-Dibromoethane (EDB)	Ave	0.9442	0.9485	0.1000	10.0	10.0	0.5	20.0
3-Chlorobenzotrifluoride	Ave	1.652	1.721	0.0100	10.4	10.0	4.2	20.0
Chlorobenzene	Ave	3.171	3.323	0.5000	10.5	10.0	4.8	20.0
4-Chlorobenzotrifluoride	Ave	1.531	1.628	0.0100	10.6	10.0	6.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8691	0.9086	0.0100	10.5	10.0	4.5	20.0
Ethylbenzene	Ave	1.789	1.909	0.1000	10.7	10.0	6.7	20.0
m-Xylene & p-Xylene	Ave	2.220	2.293	0.1000	10.3	10.0	3.3	20.0
o-Xylene	Ave	2.221	2.216	0.3000	9.98	10.0	-0.2	20.0
Styrene	Ave	3.411	3.634	0.3000	10.7	10.0	6.6	20.0
Bromoform	Ave	0.3887	0.4002	0.1000	10.3	10.0	2.9	20.0
2-Chlorobenzotrifluoride	Ave	1.692	1.689	0.0100	9.98	10.0	-0.2	20.0
Isopropylbenzene	Ave	5.314	5.533	0.1000	10.4	10.0	4.1	20.0
1,1,2,2-Tetrachloroethane	Ave	1.428	1.303	0.3000	9.13	10.0	-8.7	20.0
Bromobenzene	Ave	0.8038	0.7954	0.0100	9.90	10.0	-1.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2549	0.2156	0.0100	8.46	10.0	-15.4	20.0
1,2,3-Trichloropropane	Ave	0.3057	0.2709	0.0100	8.86	10.0	-11.4	20.0
N-Propylbenzene	Ave	0.9257	0.8744	0.0100	9.45	10.0	-5.5	20.0
2-Chlorotoluene	Ave	0.7686	0.7619	0.0100	9.91	10.0	-0.9	20.0
3-Chlorotoluene	Ave	0.8072	0.7705	0.0100	9.55	10.0	-4.5	20.0
1,3,5-Trimethylbenzene	Ave	3.010	2.847	0.0100	9.46	10.0	-5.4	20.0
4-Chlorotoluene	Ave	0.8119	0.8634	0.0100	10.6	10.0	6.3	20.0
tert-Butylbenzene	Ave	2.378	2.150	0.0100	9.04	10.0	-9.6	20.0
1,2,4-Trimethylbenzene	Ave	3.078	2.908	0.0100	9.45	10.0	-5.5	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.8719	0.8389	0.0100	9.62	10.0	-3.8	20.0
sec-Butylbenzene	Ave	3.550	3.361	0.0100	9.47	10.0	-5.3	20.0
1,3-Dichlorobenzene	Ave	1.570	1.533	0.6000	9.77	10.0	-2.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: CCVIS 180-155230/2 Calibration Date: 09/29/2015 11:39

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: 60929002.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	2.707	0.0100	9.09	10.0	-9.1	20.0
1,4-Dichlorobenzene	Ave	1.605	1.568	0.5000	9.77	10.0	-2.3	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.8674	0.7620	0.0100	8.78	10.0	-12.2	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.9687	0.9621	0.0100	9.93	10.0	-0.7	20.0
n-Butylbenzene	Ave	2.974	2.542	0.0100	8.55	10.0	-14.5	20.0
1,2-Dichlorobenzene	Ave	1.585	1.487	0.4000	9.38	10.0	-6.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1454	0.1031	0.0500	7.09	10.0	-29.1*	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.380	1.218	0.0100	26.5	30.0	-11.7	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.522	1.327	0.0100	17.4	20.0	-12.8	20.0
1,2,4-Trichlorobenzene	Ave	1.229	1.067	0.2000	8.68	10.0	-13.2	20.0
Hexachlorobutadiene	Ave	0.4839	0.4761	0.0100	9.84	10.0	-1.6	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	1.001	0.0100	8.71	10.0	-12.9	20.0
2,4,5-Trichlorotoluene	Ave	0.7719	0.6175	0.0100	8.00	10.0	-20.0	20.0
2,3,6-Trichlorotoluene	Ave	0.7323	0.6155	0.0100	8.41	10.0	-15.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2303	0.2229		9.68	10.0	-3.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3715	0.3809		10.3	10.0	2.5	20.0
Toluene-d8 (Surr)	Ave	3.944	4.049		10.3	10.0	2.7	20.0
4-Bromofluorobenzene (Surr)	Ave	1.751	1.737		9.92	10.0	-0.8	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Sep-2015 11:39:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008741-002
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 13:09:19 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 12:24:53

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	4.242	0.000	92	151334	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.283	0.000	98	479327	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	109995	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	95	188289	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	93	106855	50.0	48.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	72	182590	50.0	51.3	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	445339	50.0	51.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	84	191113	50.0	49.6	
11 Dichlorodifluoromethane	85	1.608	1.608	0.000	99	145348	50.0	43.8	
12 Chloromethane	50	1.766	1.766	0.000	99	142616	50.0	49.9	
13 Vinyl chloride	62	1.900	1.900	0.000	97	147475	50.0	47.9	
14 Butadiene	39	1.936	1.936	0.000	96	158900	50.0	55.0	
15 Bromomethane	94	2.246	2.246	0.000	90	66377	50.0	39.9	
16 Chloroethane	64	2.380	2.380	0.000	100	97034	50.0	46.1	
17 Dichlorofluoromethane	67	2.654	2.654	0.000	97	212984	50.0	43.5	
18 Trichlorofluoromethane	101	2.690	2.690	0.000	90	168530	50.0	43.2	
20 Ethyl ether	59	3.043	3.043	0.000	95	138627	50.0	50.1	
21 Acrolein	56	3.214	3.214	0.000	95	43802	150.0	145.1	
22 1,1-Dichloroethene	96	3.335	3.335	0.000	95	110141	50.0	45.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.408	3.408	0.000	93	125117	50.0	49.1	
24 Acetone	43	3.420	3.420	0.000	99	96584	100.0	113.9	
25 Iodomethane	142	3.530	3.530	0.000	98	164659	50.0	50.8	
26 Carbon disulfide	76	3.627	3.627	0.000	100	283325	50.0	45.3	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	66	58715	50.0	43.2	
30 Methyl acetate	43	3.919	3.919	0.000	97	561627	250.0	282.4	
31 Methylene Chloride	84	4.120	4.120	0.000	98	145701	50.0	42.9	
32 2-Methyl-2-propanol	59	4.376	4.376	0.000	97	91607	500.0	537.9	
33 Acrylonitrile	53	4.503	4.503	0.000	100	534975	500.0	533.7	
34 trans-1,2-Dichloroethene	96	4.558	4.558	0.000	92	125044	50.0	44.9	
35 Methyl tert-butyl ether	73	4.570	4.570	0.000	97	350657	50.0	42.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.984	0.000	95	210378	50.0	55.8	
37 1,1-Dichloroethane	63	5.191	5.191	0.000	96	243496	50.0	48.8	
38 Vinyl acetate	43	5.239	5.239	0.000	98	248520	50.0	61.8	
43 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	87	131373	50.0	43.4	
42 2,2-Dichloropropane	77	5.939	5.939	0.000	59	105040	50.0	41.7	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	66	129164	100.0	111.6	
48 Chlorobromomethane	128	6.231	6.231	0.000	95	63646	50.0	52.3	
49 Tetrahydrofuran	42	6.249	6.249	0.000	93	83136	100.0	106.7	
50 Chloroform	83	6.371	6.371	0.000	96	228303	50.0	46.1	
51 1,1,1-Trichloroethane	97	6.541	6.541	0.000	96	171909	50.0	47.0	
52 Cyclohexane	56	6.614	6.614	0.000	95	243170	50.0	51.9	
53 Carbon tetrachloride	117	6.712	6.712	0.000	96	133371	50.0	51.6	
54 1,1-Dichloropropene	75	6.724	6.724	0.000	92	189553	50.0	48.2	
55 Isobutyl alcohol	41	6.894	6.894	0.000	92	92139	1250.0	1328.7	
56 Benzene	78	6.937	6.937	0.000	99	555592	50.0	49.7	
57 1,2-Dichloroethane	62	7.016	7.016	0.000	98	230788	50.0	51.3	
59 n-Heptane	43	7.308	7.308	0.000	94	202530	50.0	66.7	
61 Trichloroethene	130	7.679	7.679	0.000	96	124915	50.0	53.6	
63 Methylcyclohexane	83	7.922	7.922	0.000	96	227630	50.0	48.1	
64 1,2-Dichloropropane	63	7.953	7.953	0.000	93	145121	50.0	54.4	
67 Dibromomethane	93	8.032	8.032	0.000	95	79813	50.0	49.3	
65 1,4-Dioxane	88	8.032	8.032	0.000	40	27430	1000.0	1041.3	
68 Dichlorobromomethane	83	8.226	8.226	0.000	97	143737	50.0	47.2	
71 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	90	162311	50.0	48.5	
72 4-Methyl-2-pentanone (MIBK	43	8.823	8.823	0.000	97	212167	100.0	93.8	
73 Toluene	91	9.011	9.011	0.000	97	561378	50.0	49.5	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	100	138396	50.0	48.0	
75 Ethyl methacrylate	69	9.315	9.315	0.000	92	147255	50.0	48.1	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	94	112824	50.0	48.1	
77 Tetrachloroethene	164	9.522	9.522	0.000	94	101593	50.0	52.5	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	96	220983	50.0	51.0	
79 2-Hexanone	43	9.662	9.662	0.000	99	172417	100.0	116.1	
81 Chlorodibromomethane	129	9.826	9.826	0.000	92	81197	50.0	50.7	
82 Ethylene Dibromide	107	9.942	9.942	0.000	98	104325	50.0	50.2	
83 3-Chlorobenzotrifluoride	180	10.398	10.398	0.000	91	189271	50.0	52.1	
84 Chlorobenzene	112	10.429	10.429	0.000	92	365560	50.0	52.4	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	179089	50.0	53.2	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	87	99941	50.0	52.3	
87 Ethylbenzene	106	10.526	10.526	0.000	99	209981	50.0	53.4	
88 m-Xylene & p-Xylene	106	10.660	10.660	0.000	99	252184	50.0	51.6	
89 o-Xylene	106	11.037	11.037	0.000	97	243785	50.0	49.9	
90 Styrene	104	11.061	11.061	0.000	95	399776	50.0	53.3	
91 Bromoform	173	11.244	11.244	0.000	95	44016	50.0	51.5	
92 2-Chlorobenzotrifluoride	180	11.305	11.305	0.000	96	185766	50.0	49.9	
93 Isopropylbenzene	105	11.408	11.408	0.000	97	608606	50.0	52.1	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	97	143289	50.0	45.6	
95 Bromobenzene	156	11.724	11.724	0.000	98	149768	50.0	49.5	
97 trans-1,4-Dichloro-2-buten	53	11.755	11.755	0.000	80	40600	50.0	42.3	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	85	51005	50.0	44.3	
99 N-Propylbenzene	120	11.828	11.828	0.000	99	164638	50.0	47.2	
100 2-Chlorotoluene	126	11.913	11.913	0.000	94	143464	50.0	49.6	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	145082	50.0	47.7	

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	12.010	12.010	0.000	93	536131	50.0	47.3	
103 4-Chlorotoluene	126	12.041	12.041	0.000	99	162566	50.0	53.2	
104 tert-Butylbenzene	119	12.327	12.327	0.000	91	404806	50.0	45.2	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	98	547575	50.0	47.2	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	97	157953	50.0	48.1	
108 sec-Butylbenzene	105	12.546	12.546	0.000	96	632811	50.0	47.3	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	96	288695	50.0	48.8	
110 4-Isopropyltoluene	119	12.704	12.704	0.000	96	509727	50.0	45.4	
111 1,4-Dichlorobenzene	146	12.771	12.771	0.000	91	295236	50.0	48.8	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	95	143476	50.0	43.9	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.832	0.000	98	181151	50.0	49.7	
116 n-Butylbenzene	91	13.111	13.111	0.000	99	478661	50.0	42.7	
117 1,2-Dichlorobenzene	146	13.130	13.130	0.000	94	279990	50.0	46.9	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.914	0.000	72	19404	50.0	35.4	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	99	688279	150.0	132.5	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	98	499879	100.0	87.2	
122 1,2,4-Trichlorobenzene	180	14.742	14.742	0.000	93	200846	50.0	43.4	
123 Hexachlorobutadiene	225	14.888	14.888	0.000	96	89640	50.0	49.2	
124 Naphthalene	128	15.009	15.009	0.000	98	401364	50.0	43.0	
125 1,2,3-Trichlorobenzene	180	15.235	15.235	0.000	94	188467	50.0	43.5	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	116267	50.0	40.0	
127 2,3,6-Trichlorotoluene	159	16.111	16.111	0.000	95	115893	50.0	42.0	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-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 131 Xylenes, Total	106				0		100.0	101.5	
S 130 1,2-Dichloroethene, Total	96				0		100.0	88.3	
S 132 1,3-Dichloropropene, Total	1				0		100.0	96.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOAPRI_00145	Amount Added:	2.00	Units: uL	
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL	
VOAVAPRI_00007	Amount Added:	2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
voaWEEpri Res_00006	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

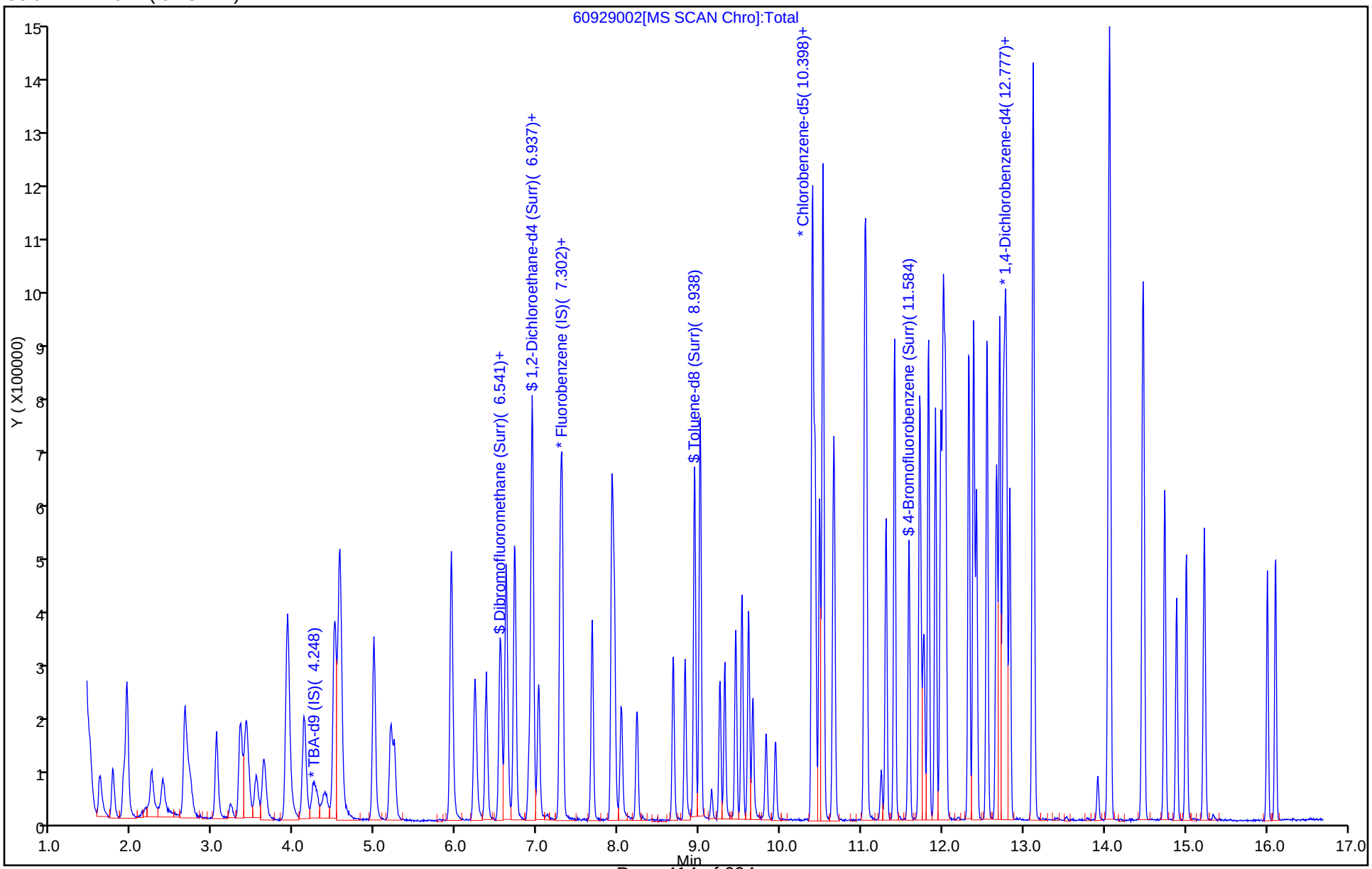
Report Date: 29-Sep-2015 13:09:20 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929002.D

Injection Date:	29-Sep-2015 11:39:30	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:

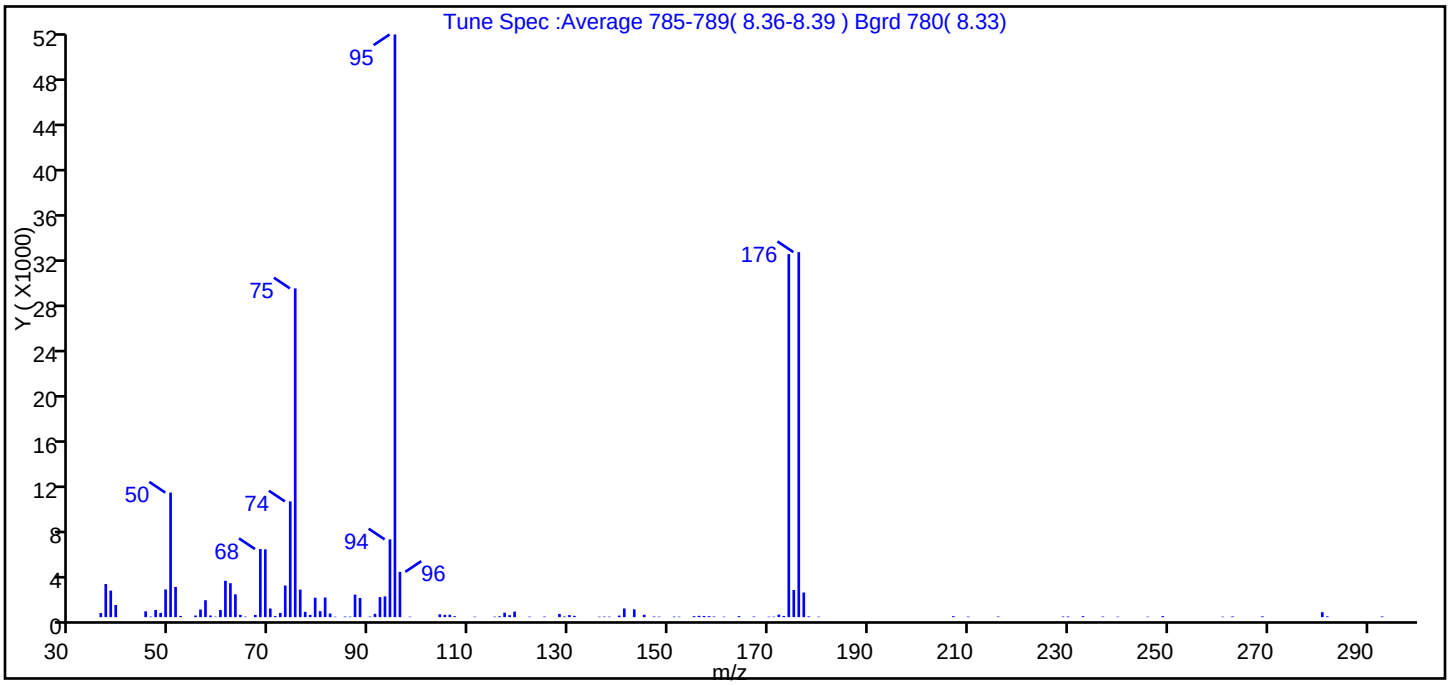
VOABFB25_00064 Amount Added: 1.00 Units: uL

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		

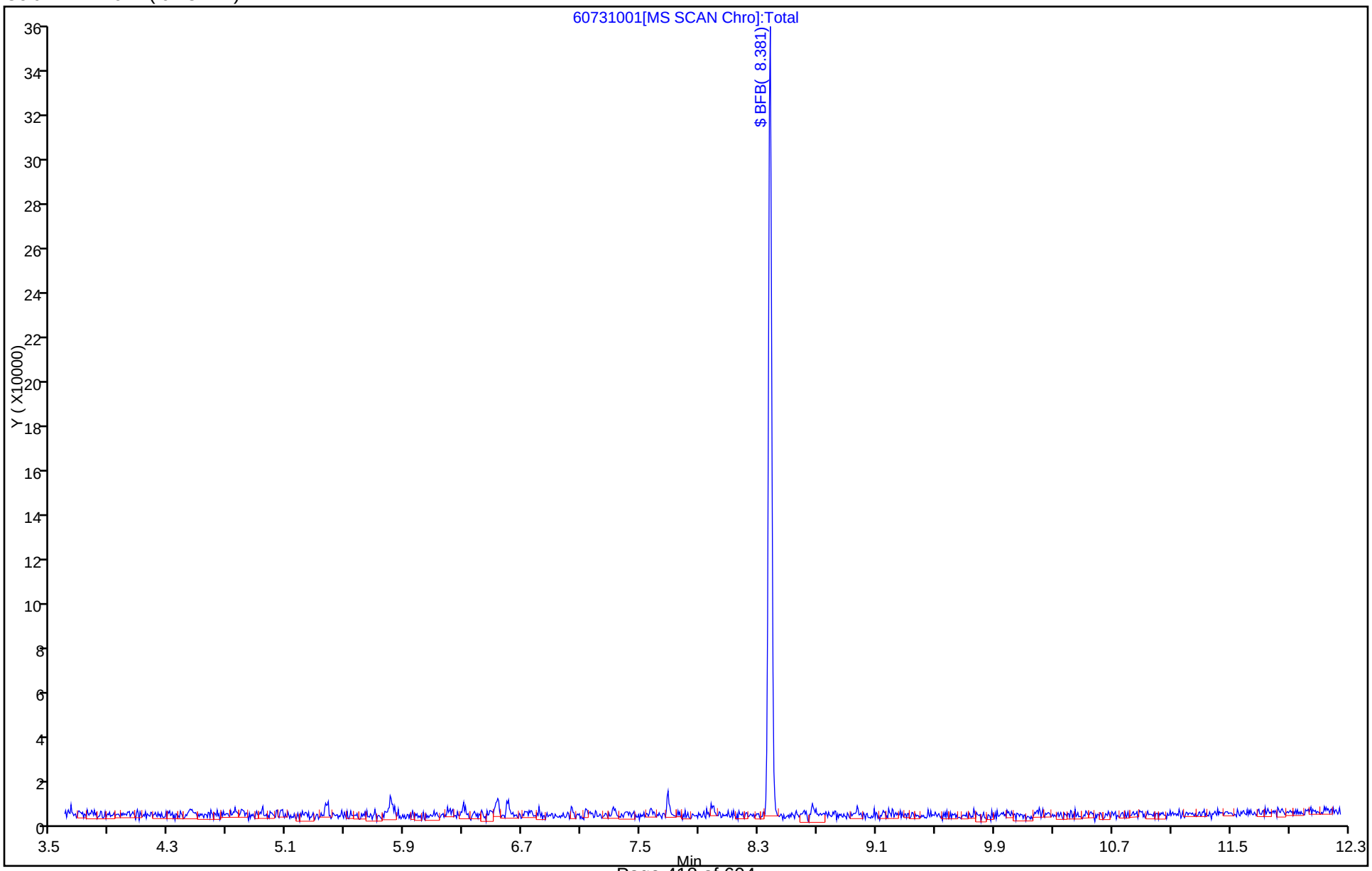
Report Date: 03-Aug-2015 12:15:24 Chrom Revision: 2.2 09-Jul-2015 10:16:20

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\20150928-8724.b\60928001.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	28-Sep-2015 10:22:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0008724-001				
Operator ID:	034635	Instrument ID:	CHHP6		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	28-Sep-2015 13:27:49	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:	XAWRK009				
First Level Reviewer: fergusond		Date:	28-Sep-2015 10:43:51		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.378	8.378	0.000	0	123904	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

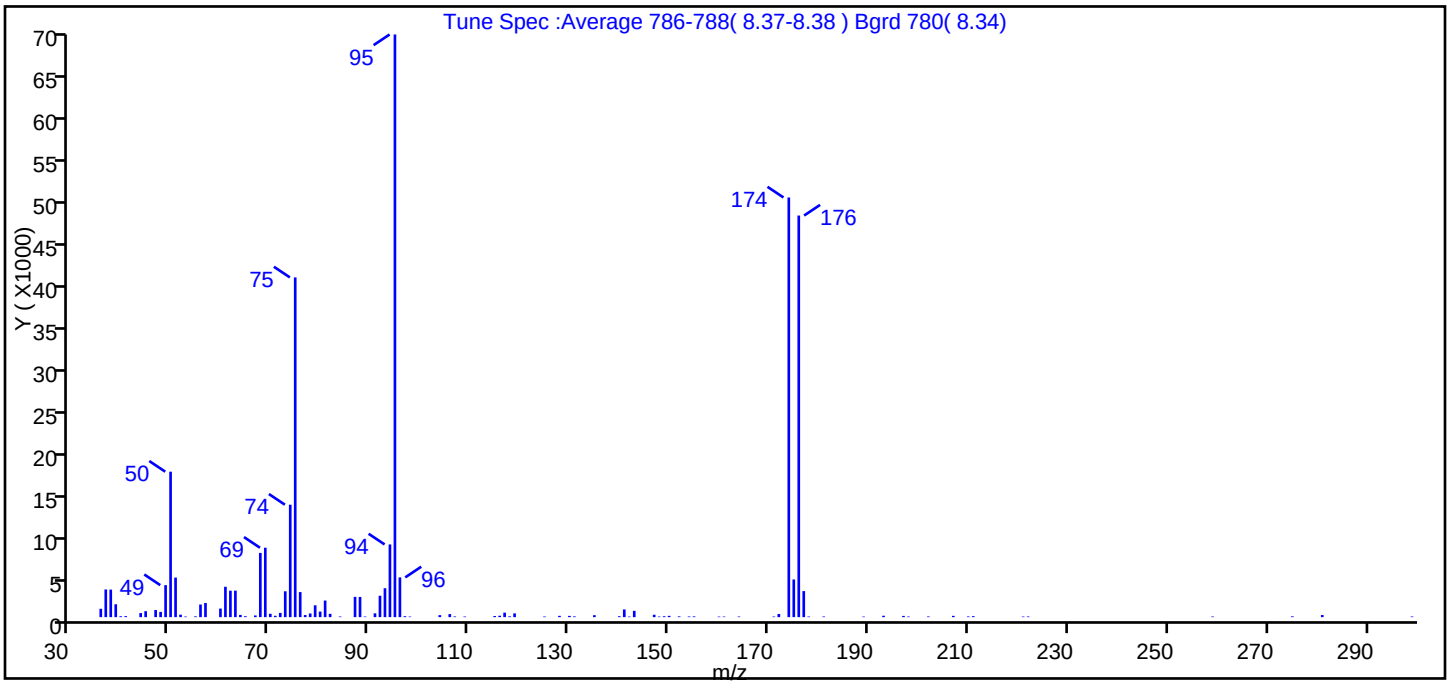
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928001.D				
Injection Date:	28-Sep-2015 10:22:30	Instrument ID:	CHHP6		
Lims ID:	BFB				
Client ID:					
Operator ID:	034635	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	MSVOA_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	25.0
75	30 to 60% of m/z 95	58.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	72.0
175	5 to 9% of m/z 174	6.5 (9.0)
176	Greater than 95% but less than 101% of m/z 174	68.9 (95.7)
177	5 to 9% of m/z 176	4.5 (6.5)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928001.D\MSVOA_LL_CHHP6.rslt\spectra
Injection Date: 28-Sep-2015 10:22:30
Spectrum: Tune Spec :Average 786-788(8.37-8.38) Bgrd 780(8.34)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1004	69.00	8329	104.00	240	161.00	70
37.00	3320	70.00	404	106.00	366	164.00	74
38.00	3306	71.00	164	107.00	81	171.00	72
39.00	1546	72.00	509	109.00	75	172.00	379
40.00	105	73.00	3102	115.00	134	174.00	50360
41.00	120	74.00	13494	116.00	171	175.00	4520
44.00	491	75.00	40768	117.00	540	176.00	48192
45.00	715	76.00	3007	118.00	95	177.00	3127
47.00	860	77.00	252	119.00	449	178.00	74
48.00	630	78.00	441	125.00	76	181.00	77
49.00	3840	79.00	1420	128.00	155	189.00	69
50.00	17456	80.00	668	130.00	152	193.00	167
51.00	4748	81.00	1992	131.00	88	197.00	149
52.00	295	82.00	399	135.00	235	198.00	71
53.00	71	84.00	74	140.00	108	202.00	81
55.00	93	87.00	2432	141.00	923	207.00	155
56.00	1516	88.00	2425	142.00	68	210.00	81
57.00	1700	89.00	70	143.00	758	211.00	115
60.00	1028	91.00	459	147.00	289	221.00	71
61.00	3644	92.00	2567	148.00	70	222.00	77
62.00	3174	93.00	3470	149.00	105	259.00	76
63.00	3180	94.00	8724	150.00	157	275.00	97
64.00	266	95.00	69920	152.00	92	281.00	253
65.00	110	96.00	4772	154.00	78	299.00	77
67.00	201	97.00	112	155.00	89		
68.00	7709	98.00	68	160.00	68		

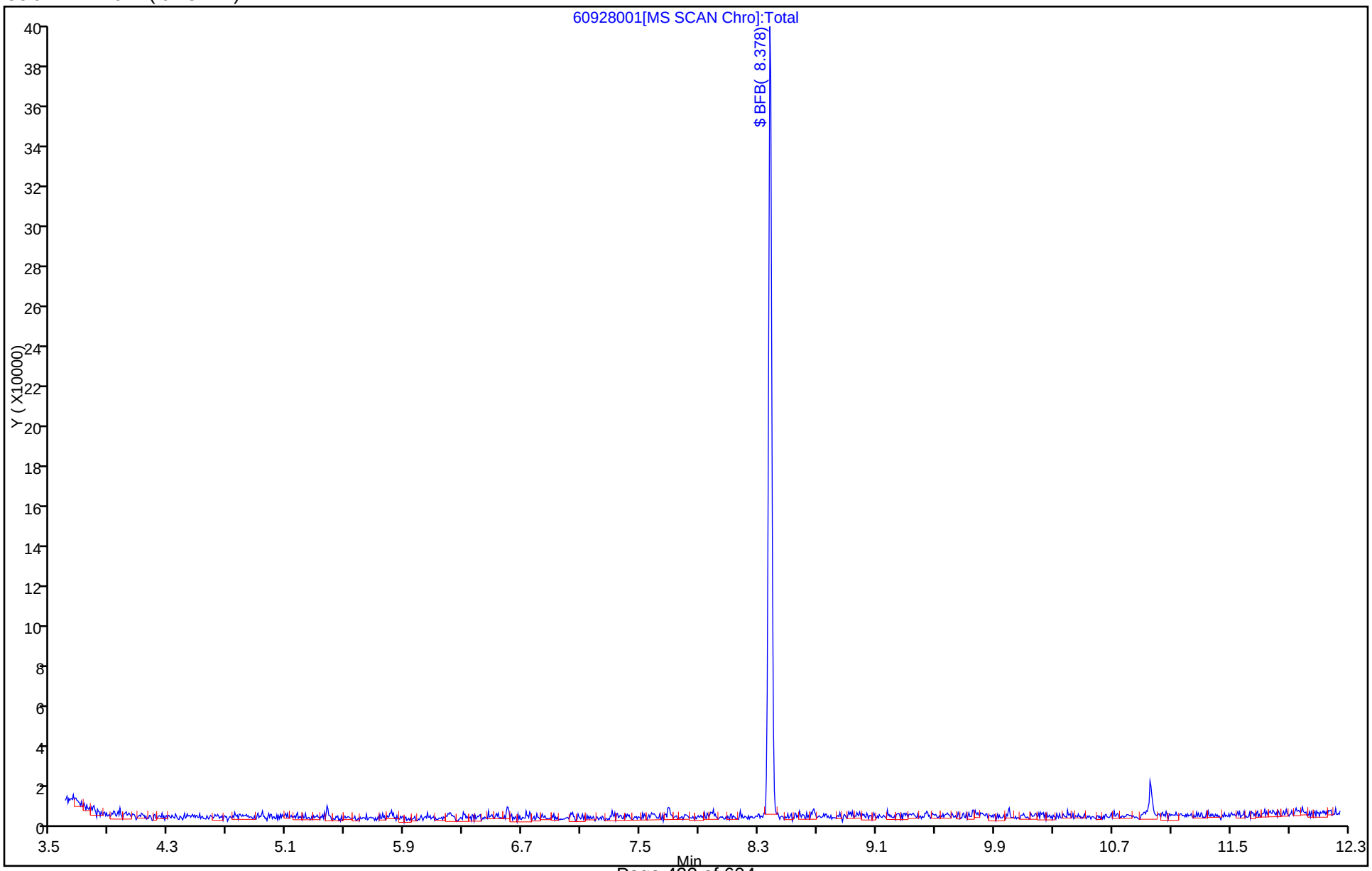
Report Date: 28-Sep-2015 13:27:50 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928001.D

Injection Date:	28-Sep-2015 10:22:30	Instrument ID:	CHHP6	Operator ID:	034635
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_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\20150929-8741.b\60929004.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 29-Sep-2015 10:59:30 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 180-0008741-004
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 13:09:18 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 11:11:16

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	277086	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

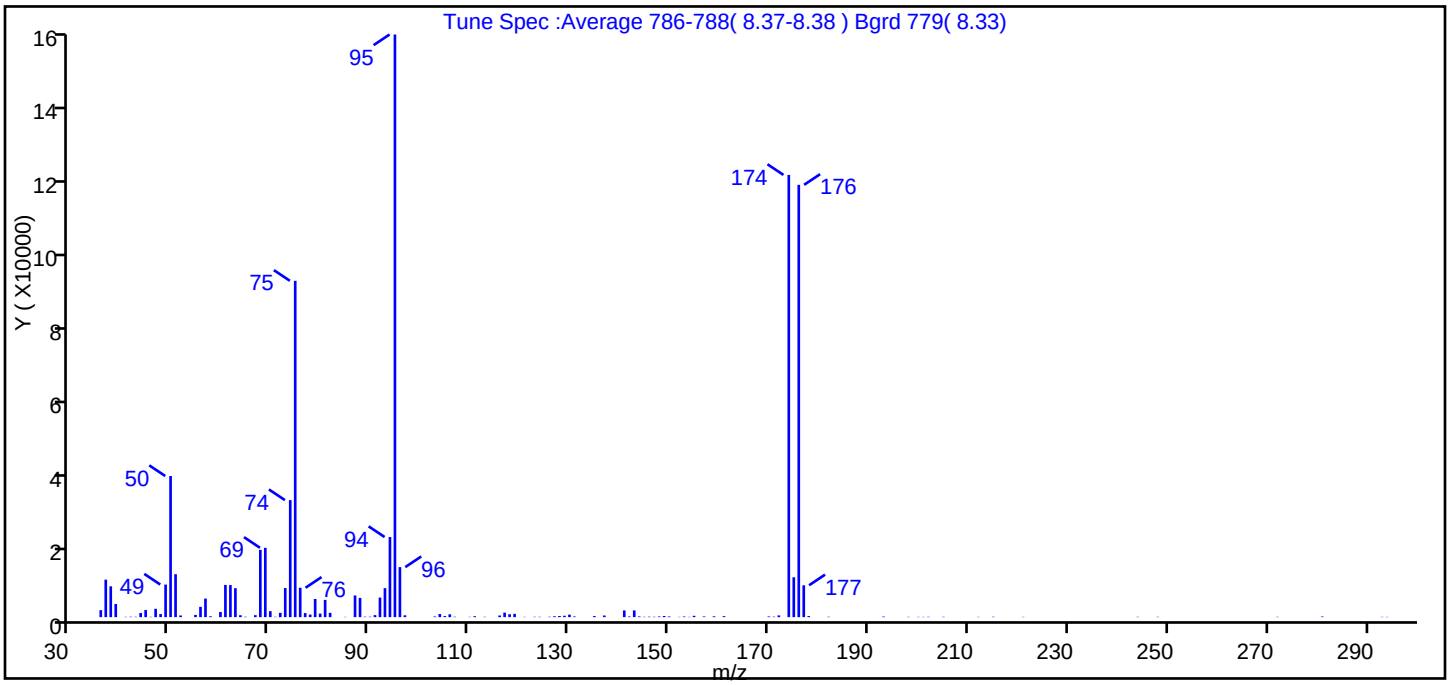
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929004.D
Injection Date: 29-Sep-2015 10:59:30 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	24.2
75	30 to 60% of m/z 95	57.7
96	5 to 9% of m/z 95	8.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	75.9
175	5 to 9% of m/z 174	6.8 (9.0)
176	Greater than 95% but less than 101% of m/z 174	74.2 (97.8)
177	5 to 9% of m/z 176	5.5 (7.4)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929004.D\MSVOA_LL_CHHP6.rslt\spectra
Injection Date: 29-Sep-2015 10:59:30
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: 118

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1810	71.00	87	111.00	243	155.00	346
37.00	9706	72.00	1112	113.00	85	157.00	174
38.00	7972	73.00	7527	116.00	424	159.00	217
39.00	3393	74.00	30288	117.00	1178	161.00	256
41.00	81	75.00	87040	118.00	754	170.00	174
42.00	111	76.00	7604	119.00	863	171.00	117
43.00	89	77.00	1055	121.00	71	172.00	453
44.00	1081	78.00	662	123.00	91	174.00	114440
45.00	1842	79.00	4694	124.00	89	175.00	10318
46.00	87	80.00	922	126.00	107	176.00	111872
47.00	2161	81.00	4460	127.00	220	177.00	8246
48.00	793	82.00	1111	128.00	295	178.00	280
49.00	8434	85.00	69	129.00	359	182.00	98
50.00	36520	87.00	5605	130.00	649	193.00	147
51.00	11113	88.00	4980	131.00	175	198.00	79
52.00	438	89.00	121	135.00	281	200.00	75
55.00	575	90.00	107	137.00	426	201.00	66
56.00	2659	91.00	528	141.00	1734	202.00	95
57.00	4813	92.00	5067	142.00	174	205.00	90
58.00	229	93.00	7503	143.00	1741	212.00	75
60.00	1327	94.00	20736	144.00	185	215.00	106
61.00	8338	95.00	150784	145.00	87	221.00	72
62.00	8298	96.00	12944	146.00	123	244.00	85
63.00	7489	97.00	477	147.00	94	248.00	88
64.00	493	103.00	171	148.00	169	272.00	84
65.00	107	104.00	810	149.00	306	281.00	162
67.00	514	105.00	282	150.00	174	293.00	77
68.00	17408	106.00	728	152.00	68	294.00	67
69.00	17944	107.00	103	153.00	160		
70.00	1547	110.00	78	154.00	71		

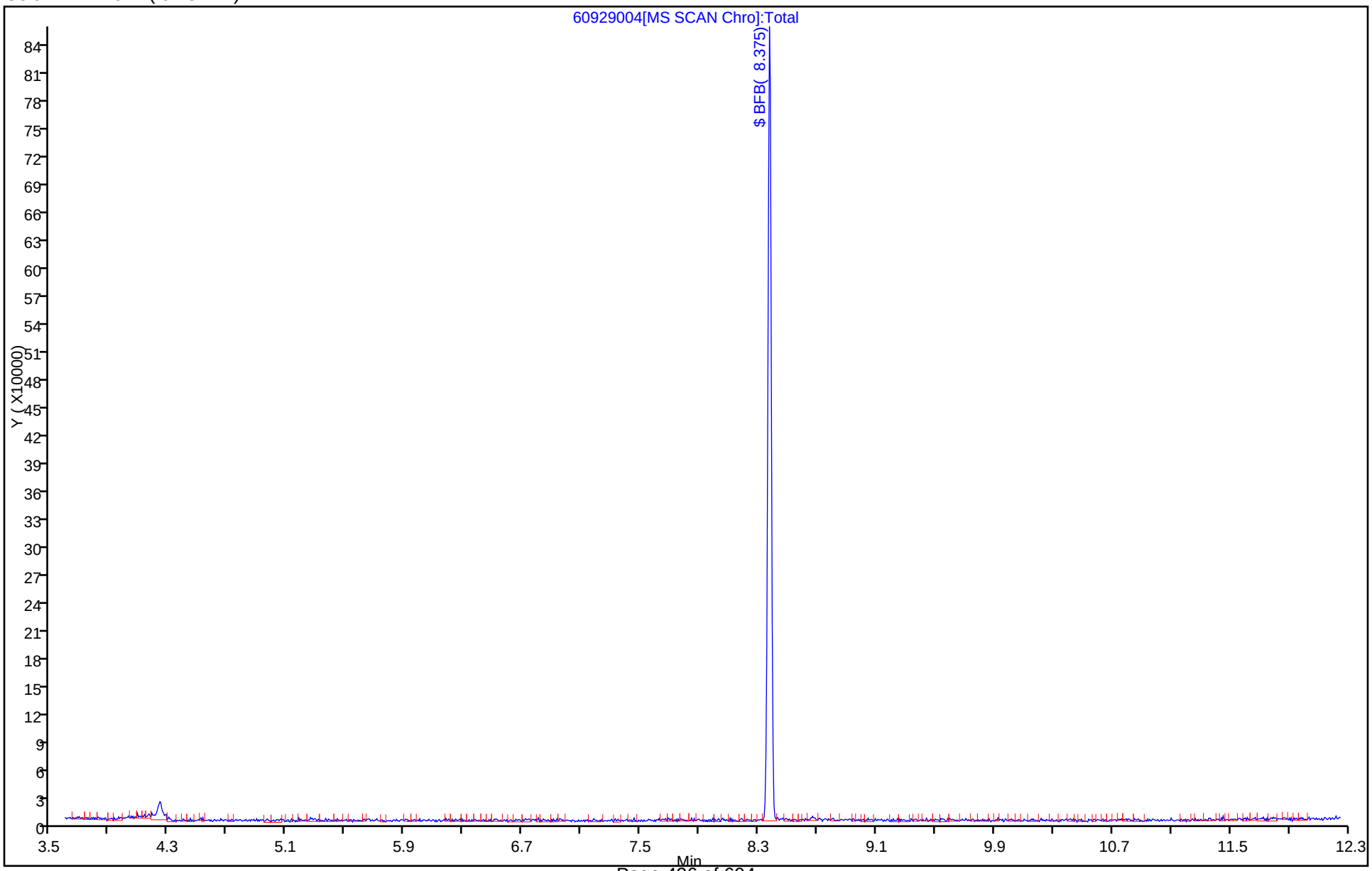
Report Date: 29-Sep-2015 13:09:19 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929004.D

Injection Date:	29-Sep-2015 10:59:30	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.: 180-47935-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-155089/4

Matrix: Water | Lab File ID: 60928004.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 12:18

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 155089 | 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.: 180-47935-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-155089/4

Matrix: Water | Lab File ID: 60928004.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 12:18

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 155089 | 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)	99		64-135
2037-26-5	Toluene-d8 (Surr)	107		71-118
460-00-4	4-Bromofluorobenzene (Surr)	95		70-118
1868-53-7	Dibromofluoromethane (Surr)	90		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928004.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 28-Sep-2015 12:18:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0008724-004
Operator ID: 034635 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 28-Sep-2015 13:32:29 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: XAWRK009

First Level Reviewer: fergusond Date: 28-Sep-2015 13:32:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.229	4.241	-0.012	91	203220	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.283	0.006	97	570858	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.397	10.398	-0.001	91	127707	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.752	12.746	0.006	98	213043	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.559	6.547	0.012	93	118826	50.0	45.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.930	0.006	71	209018	50.0	49.3	
$ 7 Toluene-d8 (Surr)	98	8.943	8.938	0.005	94	536880	50.0	53.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	84	212611	50.0	47.5	
11 Dichlorodifluoromethane	85		1.613					ND	
12 Chloromethane	50		1.765					ND	
13 Vinyl chloride	62		1.905					ND	
14 Butadiene	39		1.942					ND	
15 Bromomethane	94		2.240					ND	
16 Chloroethane	64		2.380					ND	
17 Dichlorofluoromethane	67		2.654					ND	
18 Trichlorofluoromethane	101		2.684					ND	
19 Ethanol	45		2.915					ND	
20 Ethyl ether	59		3.037					ND	
21 Acrolein	56		3.213					ND	
22 1,1-Dichloroethene	96		3.341					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.402					ND	
24 Acetone	43		3.426					ND	
25 Iodomethane	142		3.530					ND	
26 Carbon disulfide	76		3.633					ND	
27 Isopropyl alcohol	45		3.670					ND	
28 Acetonitrile	40		3.834					ND	
29 3-Chloro-1-propene	76		3.913					ND	
30 Methyl acetate	43		3.919					ND	
31 Methylene Chloride	84		4.126					ND	
32 2-Methyl-2-propanol	59		4.387					ND	
33 Acrylonitrile	53		4.503					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		4.558					ND	
35 Methyl tert-butyl ether	73		4.564					ND	
36 Hexane	57		4.984					ND	
37 1,1-Dichloroethane	63		5.190					ND	
38 Vinyl acetate	43		5.239					ND	
40 Isopropyl ether	45		5.294					ND	
39 2-Chloro-1,3-butadiene	53		5.294					ND	
41 Tert-butyl ethyl ether	59		5.768					ND	
43 cis-1,2-Dichloroethene	96		5.933					ND	
42 2,2-Dichloropropane	77		5.939					ND	
44 2-Butanone (MEK)	43		5.951					ND	
45 Propionitrile	54		6.012					ND	
46 Ethyl acetate	43		6.024					ND	
47 Methacrylonitrile	41		6.194					ND	
48 Chlorobromomethane	128		6.225					ND	
49 Tetrahydrofuran	42		6.243					ND	
50 Chloroform	83		6.371					ND	
51 1,1,1-Trichloroethane	97		6.535					ND	
52 Cyclohexane	56		6.620					ND	
53 Carbon tetrachloride	117		6.717					ND	
54 1,1-Dichloropropene	75		6.730					ND	
55 Isobutyl alcohol	41		6.900					ND	
56 Benzene	78		6.942					ND	
57 1,2-Dichloroethane	62		7.015					ND	
148 Isooctane	57		7.101					ND	
58 Tert-amyl methyl ether	73		7.119					ND	
59 n-Heptane	43		7.307					ND	
60 n-Butanol	56		7.612					ND	
61 Trichloroethene	130		7.679					ND	
62 Ethyl acrylate	55		7.794					ND	
63 Methylcyclohexane	83		7.922					ND	
64 1,2-Dichloropropane	63		7.952					ND	
66 Methyl methacrylate	69		8.025					ND	
67 Dibromomethane	93		8.038					ND	
65 1,4-Dioxane	88		8.038					ND	
68 Dichlorobromomethane	83		8.232					ND	
69 2-Nitropropane	41		8.445					ND	
70 2-Chloroethyl vinyl ether	63		8.530					ND	
71 cis-1,3-Dichloropropene	75		8.676					ND	
72 4-Methyl-2-pentanone (MIBK	43		8.822					ND	
73 Toluene	91		9.011					ND	
74 trans-1,3-Dichloropropene	75		9.254					ND	
75 Ethyl methacrylate	69		9.315					ND	
76 1,1,2-Trichloroethane	97		9.449					ND	
77 Tetrachloroethene	164		9.528					ND	
78 1,3-Dichloropropane	76		9.607					ND	
79 2-Hexanone	43		9.656					ND	
80 n-Butyl acetate	43		9.783					ND	
81 Chlorodibromomethane	129		9.820					ND	
82 Ethylene Dibromide	107		9.936					ND	
83 3-Chlorobenzotrifluoride	180		10.392					ND	
84 Chlorobenzene	112		10.428					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
85 4-Chlorobenzotrifluoride	180		10.483					ND	
86 1,1,1,2-Tetrachloroethane	131		10.520					ND	
87 Ethylbenzene	106		10.526					ND	
88 m-Xylene & p-Xylene	106		10.659					ND	
89 o-Xylene	106		11.037					ND	
90 Styrene	104		11.061					ND	
91 Bromoform	173		11.244					ND	
129 Cyclohexanol	57		11.246					ND	
92 2-Chlorobenzotrifluoride	180		11.304					ND	
93 Isopropylbenzene	105		11.408					ND	
94 Cyclohexanone	55		11.493					ND	
96 1,1,2,2-Tetrachloroethane	83		11.712					ND	
95 Bromobenzene	156		11.724					ND	
97 trans-1,4-Dichloro-2-buten	53		11.748					ND	
98 1,2,3-Trichloropropane	110		11.773					ND	
99 N-Propylbenzene	120		11.828					ND	
100 2-Chlorotoluene	126		11.913					ND	
101 3-Chlorotoluene	126		11.980					ND	
102 1,3,5-Trimethylbenzene	105		12.010					ND	
103 4-Chlorotoluene	126		12.040					ND	
104 tert-Butylbenzene	119		12.326					ND	
105 Pentachloroethane	167		12.357					ND	
106 1,2,4-Trimethylbenzene	105		12.381					ND	
107 1,2-dichloro-4-(trifluorom	214		12.418					ND	
108 sec-Butylbenzene	105		12.551					ND	
109 1,3-Dichlorobenzene	146		12.667					ND	
110 4-Isopropyltoluene	119		12.704					ND	
111 1,4-Dichlorobenzene	146		12.770					ND	
113 2,4-Dichloro-1-(triflourom	214		12.789					ND	
112 1,2,3-Trimethylbenzene	105		12.795					ND	
114 2,5-Dichlorobenzotrifluori	214		12.831					ND	
115 Benzyl chloride	91		12.880					ND	
116 n-Butylbenzene	91		13.111					ND	
117 1,2-Dichlorobenzene	146		13.123					ND	
118 1,2-Dibromo-3-Chloropropan	75		13.914					ND	
119 2,4- & 2,5- & 2,6- Dichlor	125		14.060					ND	
120 1,3,5-Trichlorobenzene	180		14.109					ND	
121 2,3- & 3,4- Dichlorotoluen	125		14.474					ND	
122 1,2,4-Trichlorobenzene	180		14.741					ND	
123 Hexachlorobutadiene	225		14.894					ND	
124 Naphthalene	128	15.009	15.009	-0.001	93	7510		0.7109	M
125 1,2,3-Trichlorobenzene	180		15.228					ND	
126 2,4,5-Trichlorotoluene	159		16.007					ND	
127 2,3,6-Trichlorotoluene	159		16.110					ND	
128 2-Methylnaphthalene	142	16.146	16.153	-0.007	0	518		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	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
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

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

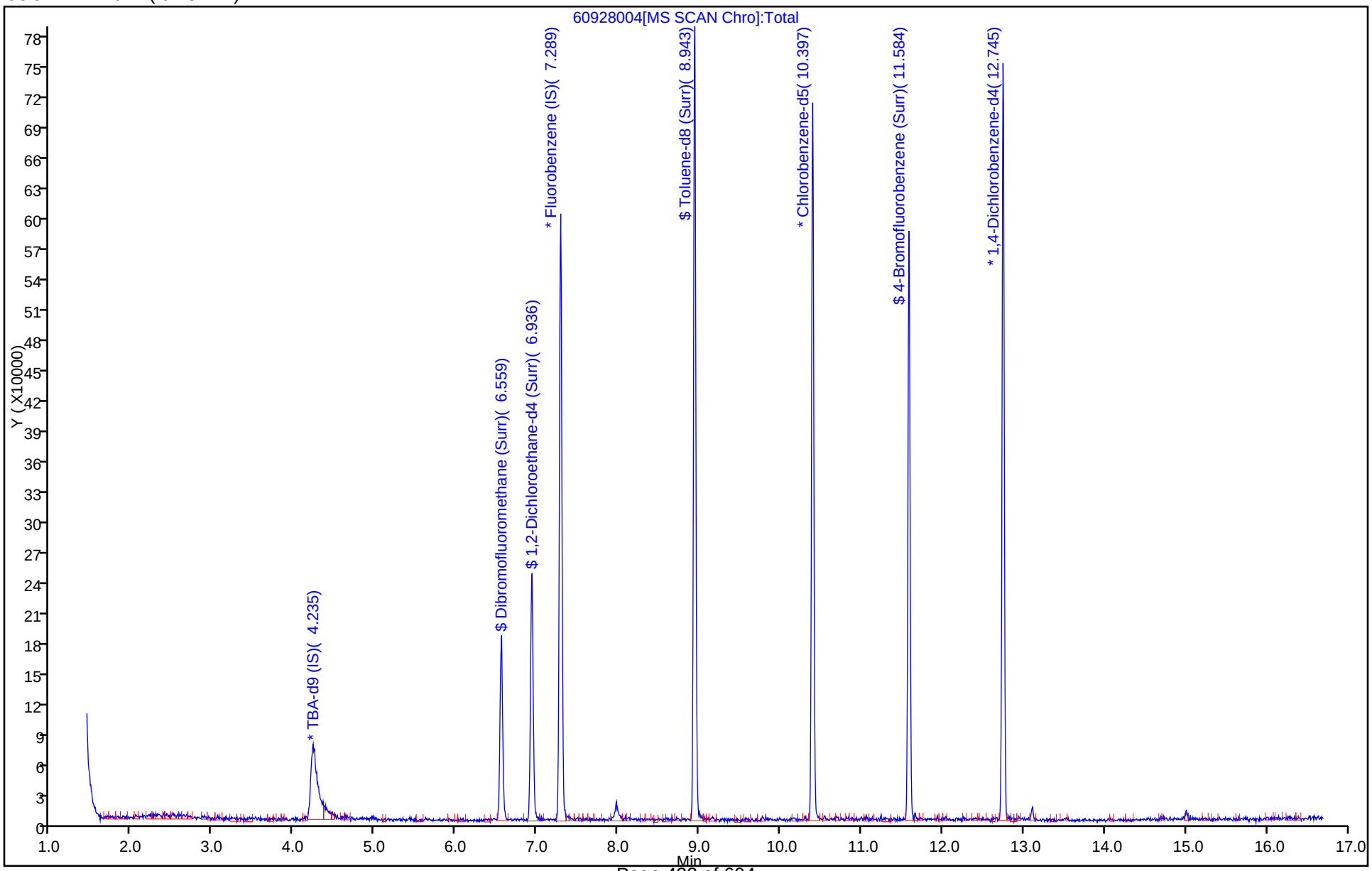
Report Date: 28-Sep-2015 13:32:31 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928004.D

Injection Date:	28-Sep-2015 12:18:30	Instrument ID:	CHHP6	Operator ID:	034635
Lims ID:	MB			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)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-155230/5

Matrix: Water | Lab File ID: 60929005.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2015 12:50

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.: 155230 | 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.: 180-47935-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-155230/5

Matrix: Water Lab File ID: 60929005.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/29/2015 12:50

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.: 155230 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)	100		64-135
2037-26-5	Toluene-d8 (Surr)	107		71-118
460-00-4	4-Bromofluorobenzene (Surr)	92		70-118
1868-53-7	Dibromofluoromethane (Surr)	100		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929005.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Sep-2015 12:50:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0008741-005
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 13:14:43 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: RT Order 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 13:14:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.229	4.242	-0.013	84	179982	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.283	0.006	97	517037	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	115558	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	98	190638	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	93	118539	50.0	49.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.931	-0.001	71	192533	50.0	50.1	
$ 7 Toluene-d8 (Surr)	98	8.944	8.938	0.006	94	485527	50.0	53.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	85	185935	50.0	45.9	
11 Dichlorodifluoromethane	85		1.608					ND	
12 Chloromethane	50		1.766					ND	
13 Vinyl chloride	62		1.900					ND	
14 Butadiene	39		1.936					ND	
15 Bromomethane	94		2.246					ND	
16 Chloroethane	64		2.380					ND	
17 Dichlorofluoromethane	67		2.654					ND	
18 Trichlorofluoromethane	101		2.690					ND	
19 Ethanol	45		2.915					ND	
20 Ethyl ether	59		3.043					ND	
21 Acrolein	56		3.214					ND	
22 1,1-Dichloroethene	96		3.335					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.408					ND	
24 Acetone	43		3.420					ND	
25 Iodomethane	142		3.530					ND	
26 Carbon disulfide	76		3.627					ND	
27 Isopropyl alcohol	45		3.670					ND	
28 Acetonitrile	40		3.834					ND	
29 3-Chloro-1-propene	76		3.913					ND	
30 Methyl acetate	43		3.919					ND	
31 Methylene Chloride	84		4.120					ND	
32 2-Methyl-2-propanol	59		4.376					ND	
33 Acrylonitrile	53		4.503					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		4.558					ND	
35 Methyl tert-butyl ether	73		4.570					ND	
36 Hexane	57		4.984					ND	
37 1,1-Dichloroethane	63		5.191					ND	
38 Vinyl acetate	43		5.239					ND	
40 Isopropyl ether	45		5.294					ND	
39 2-Chloro-1,3-butadiene	53		5.294					ND	
41 Tert-butyl ethyl ether	59		5.768					ND	
43 cis-1,2-Dichloroethene	96		5.939					ND	
42 2,2-Dichloropropane	77		5.939					ND	
44 2-Butanone (MEK)	43		5.945					ND	
45 Propionitrile	54		6.012					ND	
46 Ethyl acetate	43		6.024					ND	
47 Methacrylonitrile	41		6.194					ND	
48 Chlorobromomethane	128		6.231					ND	
49 Tetrahydrofuran	42		6.249					ND	
50 Chloroform	83		6.371					ND	
51 1,1,1-Trichloroethane	97		6.541					ND	
52 Cyclohexane	56		6.614					ND	
53 Carbon tetrachloride	117		6.712					ND	
54 1,1-Dichloropropene	75		6.724					ND	
55 Isobutyl alcohol	41		6.894					ND	
56 Benzene	78		6.937					ND	
57 1,2-Dichloroethane	62		7.016					ND	
148 Isooctane	57		7.101					ND	
58 Tert-amyl methyl ether	73		7.119					ND	
59 n-Heptane	43		7.308					ND	
60 n-Butanol	56		7.612					ND	
61 Trichloroethene	130		7.679					ND	
62 Ethyl acrylate	55		7.794					ND	
63 Methylcyclohexane	83		7.922					ND	
64 1,2-Dichloropropane	63		7.953					ND	
66 Methyl methacrylate	69		8.025					ND	
67 Dibromomethane	93		8.032					ND	
65 1,4-Dioxane	88		8.032					ND	
68 Dichlorobromomethane	83		8.226					ND	
69 2-Nitropropane	41		8.445					ND	
70 2-Chloroethyl vinyl ether	63		8.530					ND	
71 cis-1,3-Dichloropropene	75		8.677					ND	
72 4-Methyl-2-pentanone (MIBK	43		8.823					ND	
73 Toluene	91		9.011					ND	
74 trans-1,3-Dichloropropene	75		9.254					ND	
75 Ethyl methacrylate	69		9.315					ND	
76 1,1,2-Trichloroethane	97		9.449					ND	
77 Tetrachloroethene	164		9.522					ND	
78 1,3-Dichloropropane	76		9.607					ND	
79 2-Hexanone	43		9.662					ND	
80 n-Butyl acetate	43		9.783					ND	
81 Chlorodibromomethane	129		9.826					ND	
82 Ethylene Dibromide	107		9.942					ND	
83 3-Chlorobenzotrifluoride	180		10.398					ND	
84 Chlorobenzene	112		10.429					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
85 4-Chlorobenzotrifluoride	180		10.483					ND	
86 1,1,1,2-Tetrachloroethane	131		10.520					ND	
87 Ethylbenzene	106		10.526					ND	
88 m-Xylene & p-Xylene	106		10.660					ND	
89 o-Xylene	106		11.037					ND	
90 Styrene	104		11.061					ND	
91 Bromoform	173		11.244					ND	
129 Cyclohexanol	57		11.246					ND	
92 2-Chlorobenzotrifluoride	180		11.305					ND	
93 Isopropylbenzene	105		11.408					ND	
94 Cyclohexanone	55		11.493					ND	
96 1,1,2,2-Tetrachloroethane	83		11.712					ND	
95 Bromobenzene	156		11.724					ND	
97 trans-1,4-Dichloro-2-buten	53		11.755					ND	
98 1,2,3-Trichloropropane	110		11.773					ND	
99 N-Propylbenzene	120		11.828					ND	
100 2-Chlorotoluene	126		11.913					ND	
101 3-Chlorotoluene	126		11.980					ND	
102 1,3,5-Trimethylbenzene	105		12.010					ND	
103 4-Chlorotoluene	126		12.041					ND	
104 tert-Butylbenzene	119		12.327					ND	
105 Pentachloroethane	167		12.357					ND	
106 1,2,4-Trimethylbenzene	105		12.381					ND	
107 1,2-dichloro-4-(trifluorom	214		12.418					ND	
108 sec-Butylbenzene	105		12.546					ND	
109 1,3-Dichlorobenzene	146		12.667					ND	
110 4-Isopropyltoluene	119		12.704					ND	
111 1,4-Dichlorobenzene	146		12.771					ND	
113 2,4-Dichloro-1-(triflourom	214		12.789					ND	
112 1,2,3-Trimethylbenzene	105		12.795					ND	
114 2,5-Dichlorobenzotrifluori	214		12.832					ND	
115 Benzyl chloride	91		12.880					ND	
116 n-Butylbenzene	91		13.111					ND	
117 1,2-Dichlorobenzene	146		13.130					ND	
118 1,2-Dibromo-3-Chloropropan	75		13.914					ND	
119 2,4- & 2,5- & 2,6- Dichlor	125		14.060					ND	
120 1,3,5-Trichlorobenzene	180		14.109					ND	
121 2,3- & 3,4- Dichlorotoluen	125		14.474					ND	
122 1,2,4-Trichlorobenzene	180		14.742					ND	
123 Hexachlorobutadiene	225		14.888					ND	
124 Naphthalene	128		15.009					ND	
125 1,2,3-Trichlorobenzene	180		15.235					ND	
126 2,4,5-Trichlorotoluene	159		16.007					ND	
127 2,3,6-Trichlorotoluene	159		16.111					ND	
128 2-Methylnaphthalene	142		16.153					ND	
145 2,3-Dichlorotoluene	1		0.000					ND	
144 2,4-Dichlorotoluene	1		0.000					ND	
151 Tert-amyl methyl ether (TI	1		0.000					ND	
153 1,2 Epoxybutane TIC	1		0.000					ND	
146 3,4-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
147 2,6-Dichlorotoluene	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
149 Isopropyl ether TIC	1		0.000					ND	
143 2,5-Dichlorotoluene	1		0.000					ND	
150 Tert-butyl ethyl ether (TI	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	

Reagents:

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

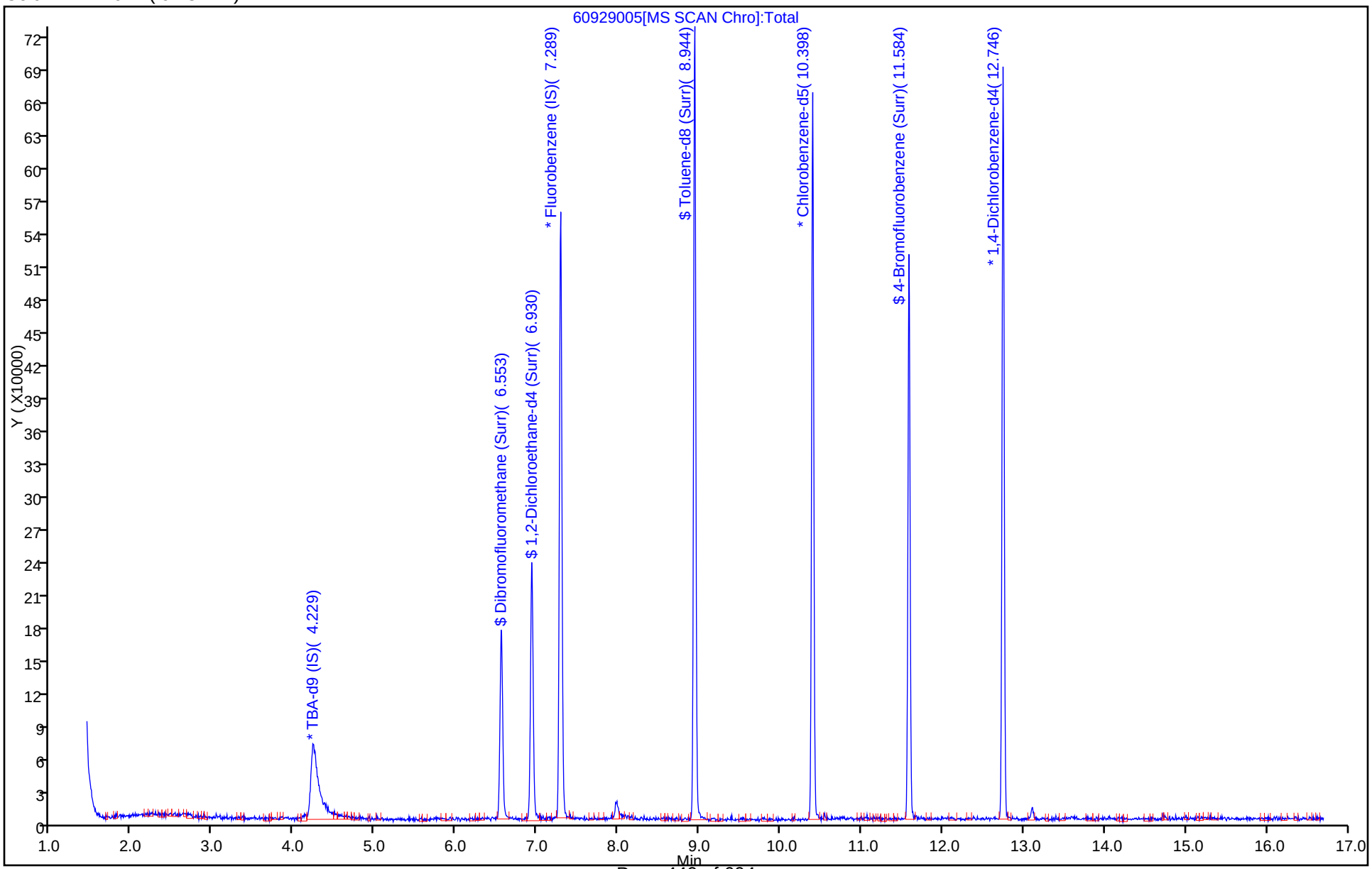
Report Date: 29-Sep-2015 13:14:44 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929005.D

Injection Date:	29-Sep-2015 12:50:30	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#:	4
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.: 180-47935-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155089/8

Matrix: Water | Lab File ID: 60928008.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/28/2015 14:21

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 155089 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	11.2		1.0	0.28
75-01-4	Vinyl chloride	10.4		1.0	0.23
74-83-9	Bromomethane	8.81		1.0	0.31
75-00-3	Chloroethane	9.45		1.0	0.21
75-35-4	1,1-Dichloroethene	7.60		1.0	0.30
67-64-1	Acetone	16.9		5.0	2.5
75-15-0	Carbon disulfide	8.01		1.0	0.21
75-09-2	Methylene Chloride	8.09		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.09		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.15		1.0	0.18
75-34-3	1,1-Dichloroethane	8.71		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.55		1.0	0.24
74-97-5	Bromochloromethane	9.18		1.0	0.18
78-93-3	2-Butanone (MEK)	21.9		5.0	0.55
67-66-3	Chloroform	8.72		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.27		1.0	0.29
56-23-5	Carbon tetrachloride	8.45		1.0	0.14
71-43-2	Benzene	8.93		1.0	0.11
107-06-2	1,2-Dichloroethane	9.25		1.0	0.21
79-01-6	Trichloroethene	10.1		1.0	0.14
78-87-5	1,2-Dichloropropane	10.2		1.0	0.095
75-27-4	Bromodichloromethane	8.87		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	9.69		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	21.5		5.0	0.53
108-88-3	Toluene	9.38		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	9.31		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.86		1.0	0.20
127-18-4	Tetrachloroethene	10.3		1.0	0.15
591-78-6	2-Hexanone	23.5		5.0	0.16
124-48-1	Dibromochloromethane	10.2		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.3		1.0	0.18
108-90-7	Chlorobenzene	10.2		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	10.0		1.0	0.28
100-41-4	Ethylbenzene	10.1		1.0	0.23
1330-20-7	Xylenes, Total	20.4		3.0	0.49
100-42-5	Styrene	10.6		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-155089/8

Matrix: Water Lab File ID: 60928008.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/28/2015 14:21

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 155089 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	11.1		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.95		1.0	0.20
107-13-1	Acrylonitrile	104		20	0.55
123-91-1	1,4-Dioxane	187	J	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)	101		71-118
460-00-4	4-Bromofluorobenzene (Surr)	96		70-118
1868-53-7	Dibromofluoromethane (Surr)	96		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928008.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 28-Sep-2015 14:21:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0008724-008
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 28-Sep-2015 14:43:45 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: XAWRK009

First Level Reviewer: fergusond Date: 28-Sep-2015 14:43:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.242	4.241	0.001	91	218073	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.284	7.283	0.001	98	503917	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.399	10.398	0.000	91	118468	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.746	0.001	96	190158	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.548	6.547	0.001	93	110967	50.0	47.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.930	0.001	75	183832	50.0	49.1	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	95	472255	50.0	50.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.584	0.001	83	198567	50.0	47.9	
11 Dichlorodifluoromethane	85	1.608	1.613	-0.005	99	153228	50.0	43.9	
12 Chloromethane	50	1.766	1.765	0.001	99	167723	50.0	55.8	
13 Vinyl chloride	62	1.900	1.905	-0.005	99	168119	50.0	51.9	
14 Butadiene	39	1.942	1.942	0.000	95	179238	50.0	59.0	
15 Bromomethane	94	2.253	2.240	0.013	92	77052	50.0	44.1	
16 Chloroethane	64	2.387	2.380	0.007	100	104458	50.0	47.2	
17 Dichlorofluoromethane	67	2.660	2.654	0.006	97	237750	50.0	46.2	
18 Trichlorofluoromethane	101	2.679	2.684	-0.005	88	181214	50.0	44.2	
20 Ethyl ether	59	3.044	3.037	0.007	92	122574	50.0	42.1	
21 Acrolein	56	3.226	3.213	0.013	99	37670	150.0	118.7	
22 1,1-Dichloroethene	96	3.348	3.341	0.007	95	96395	50.0	38.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.415	3.402	0.013	95	111818	50.0	41.8	
24 Acetone	43	3.433	3.426	0.007	84	75385	100.0	84.6	
25 Iodomethane	142	3.536	3.530	0.006	99	144767	50.0	42.5	
26 Carbon disulfide	76	3.634	3.633	0.001	100	263307	50.0	40.1	
29 3-Chloro-1-propene	76	3.920	3.913	0.007	87	52693	50.0	36.8	
30 Methyl acetate	43	3.932	3.919	0.013	98	560717	250.0	268.2	
31 Methylene Chloride	84	4.133	4.126	0.007	98	145463	50.0	40.4	
32 2-Methyl-2-propanol	59	4.388	4.387	0.001	92	122089	500.0	497.5	
33 Acrylonitrile	53	4.510	4.503	0.007	99	547654	500.0	519.7	
34 trans-1,2-Dichloroethene	96	4.571	4.558	0.013	93	118391	50.0	40.4	
35 Methyl tert-butyl ether	73	4.571	4.564	0.007	97	357327	50.0	40.7	
36 Hexane	57	4.990	4.984	0.006	95	198753	50.0	50.1	

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	5.190	0.007	97	228328	50.0	43.6	
38 Vinyl acetate	43	5.240	5.239	0.001	98	230329	50.0	54.4	
43 cis-1,2-Dichloroethene	96	5.939	5.933	0.006	84	136046	50.0	42.7	
42 2,2-Dichloropropane	77	5.939	5.939	0.000	59	102563	50.0	38.7	
44 2-Butanone (MEK)	43	5.952	5.951	0.001	70	133089	100.0	109.4	
48 Chlorobromomethane	128	6.231	6.225	0.006	94	58712	50.0	45.9	
49 Tetrahydrofuran	42	6.244	6.243	0.001	92	92373	100.0	112.7	
50 Chloroform	83	6.377	6.371	0.006	97	226855	50.0	43.6	
51 1,1,1-Trichloroethane	97	6.536	6.535	0.001	97	158859	50.0	41.3	
52 Cyclohexane	56	6.621	6.620	0.001	94	240840	50.0	48.9	
53 Carbon tetrachloride	117	6.718	6.717	0.001	96	114720	50.0	42.3	
54 1,1-Dichloropropene	75	6.724	6.730	-0.006	94	178060	50.0	43.1	
55 Isobutyl alcohol	41	6.907	6.900	0.007	88	111747	1250.0	1532.8	
56 Benzene	78	6.943	6.942	0.001	98	524148	50.0	44.6	
57 1,2-Dichloroethane	62	7.016	7.015	0.001	97	218785	50.0	46.3	
59 n-Heptane	43	7.308	7.307	0.001	92	185766	50.0	58.2	
61 Trichloroethene	130	7.679	7.679	0.000	95	124173	50.0	50.7	
63 Methylcyclohexane	83	7.923	7.922	0.001	94	215759	50.0	43.4	
64 1,2-Dichloropropane	63	7.947	7.952	-0.005	84	142602	50.0	50.8	
67 Dibromomethane	93	8.038	8.038	0.000	94	79452	50.0	46.6	
65 1,4-Dioxane	88	8.032	8.038	-0.006	37	25925	1000.0	936.1	M
68 Dichlorobromomethane	83	8.227	8.232	-0.005	97	142020	50.0	44.4	
71 cis-1,3-Dichloropropene	75	8.677	8.676	0.001	90	170374	50.0	48.5	
72 4-Methyl-2-pentanone (MIBK	43	8.823	8.822	0.001	98	261857	100.0	107.5	
73 Toluene	91	9.011	9.011	0.000	98	573199	50.0	46.9	
74 trans-1,3-Dichloropropene	75	9.255	9.254	0.001	99	144424	50.0	46.5	
75 Ethyl methacrylate	69	9.316	9.315	0.001	90	177333	50.0	53.8	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	94	124629	50.0	49.3	
77 Tetrachloroethene	164	9.529	9.528	0.001	94	107616	50.0	51.6	
78 1,3-Dichloropropane	76	9.608	9.607	0.001	95	235235	50.0	50.4	
79 2-Hexanone	43	9.662	9.656	0.006	98	187561	100.0	117.3	
81 Chlorodibromomethane	129	9.827	9.820	0.007	90	88407	50.0	51.2	
82 Ethylene Dibromide	107	9.942	9.936	0.006	99	114807	50.0	51.3	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	92	189430	50.0	48.4	
84 Chlorobenzene	112	10.429	10.428	0.001	91	381751	50.0	50.8	
85 4-Chlorobenzotrifluoride	180	10.484	10.483	0.001	97	176567	50.0	48.7	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	88	103062	50.0	50.1	
87 Ethylbenzene	106	10.526	10.526	0.000	99	213924	50.0	50.5	
88 m-Xylene & p-Xylene	106	10.660	10.659	0.001	99	270926	50.0	51.5	
89 o-Xylene	106	11.043	11.037	0.006	97	266151	50.0	50.6	
90 Styrene	104	11.062	11.061	0.001	94	427896	50.0	52.9	
91 Bromoform	173	11.244	11.244	0.000	94	51108	50.0	55.5	
92 2-Chlorobenzotrifluoride	180	11.305	11.304	0.001	96	191762	50.0	47.8	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	666274	50.0	52.9	
96 1,1,2,2-Tetrachloroethane	83	11.713	11.712	0.001	97	168277	50.0	49.7	
95 Bromobenzene	156	11.725	11.724	0.001	98	163997	50.0	53.6	
97 trans-1,4-Dichloro-2-buten	53	11.755	11.748	0.007	71	44266	50.0	45.7	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	86	58429	50.0	50.3	
99 N-Propylbenzene	120	11.828	11.828	0.000	99	178599	50.0	50.7	
100 2-Chlorotoluene	126	11.913	11.913	0.000	94	157146	50.0	53.8	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	139483	50.0	45.4	
102 1,3,5-Trimethylbenzene	105	12.011	12.010	0.001	94	575158	50.0	50.2	

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	12.040	-0.005	99	164757	50.0	53.4	
104 tert-Butylbenzene	119	12.327	12.326	0.001	92	453744	50.0	50.2	
106 1,2,4-Trimethylbenzene	105	12.382	12.381	0.001	98	580885	50.0	49.6	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	97	155557	50.0	46.9	
108 sec-Butylbenzene	105	12.546	12.551	-0.005	96	690861	50.0	51.2	
109 1,3-Dichlorobenzene	146	12.668	12.667	0.001	95	294716	50.0	49.4	
110 4-Isopropyltoluene	119	12.704	12.704	0.000	95	561743	50.0	49.6	
111 1,4-Dichlorobenzene	146	12.771	12.770	0.001	91	310765	50.0	50.9	
113 2,4-Dichloro-1-(triflourom	214	12.795	12.789	0.006	95	143774	50.0	43.6	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.831	0.001	98	174670	50.0	47.4	
116 n-Butylbenzene	91	13.112	13.111	0.001	98	543789	50.0	48.1	
117 1,2-Dichlorobenzene	146	13.124	13.123	0.001	93	291176	50.0	48.3	
118 1,2-Dibromo-3-Chloropropan	75	13.921	13.914	0.007	70	23323	50.0	42.2	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.061	14.060	0.001	98	690871	150.0	131.7	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	98	511558	100.0	88.4	
122 1,2,4-Trichlorobenzene	180	14.742	14.741	0.001	93	232283	50.0	49.7	
123 Hexachlorobutadiene	225	14.888	14.894	-0.006	95	99407	50.0	54.0	
124 Naphthalene	128	15.004	15.009	-0.005	98	521743	50.0	55.3	
125 1,2,3-Trichlorobenzene	180	15.229	15.228	0.001	93	213599	50.0	48.9	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	128483	50.0	43.8	
127 2,3,6-Trichlorotoluene	159	16.105	16.110	-0.005	95	125696	50.0	45.1	
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	102.1	
S 130 1,2-Dichloroethene, Total	96				0		100.0	83.2	
S 132 1,3-Dichloropropene, Total	1				0		100.0	95.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL	
VOA8260VOA2ND_00144	Amount Added:	2.00	Units: uL	
voaWEEpri Res_00005	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

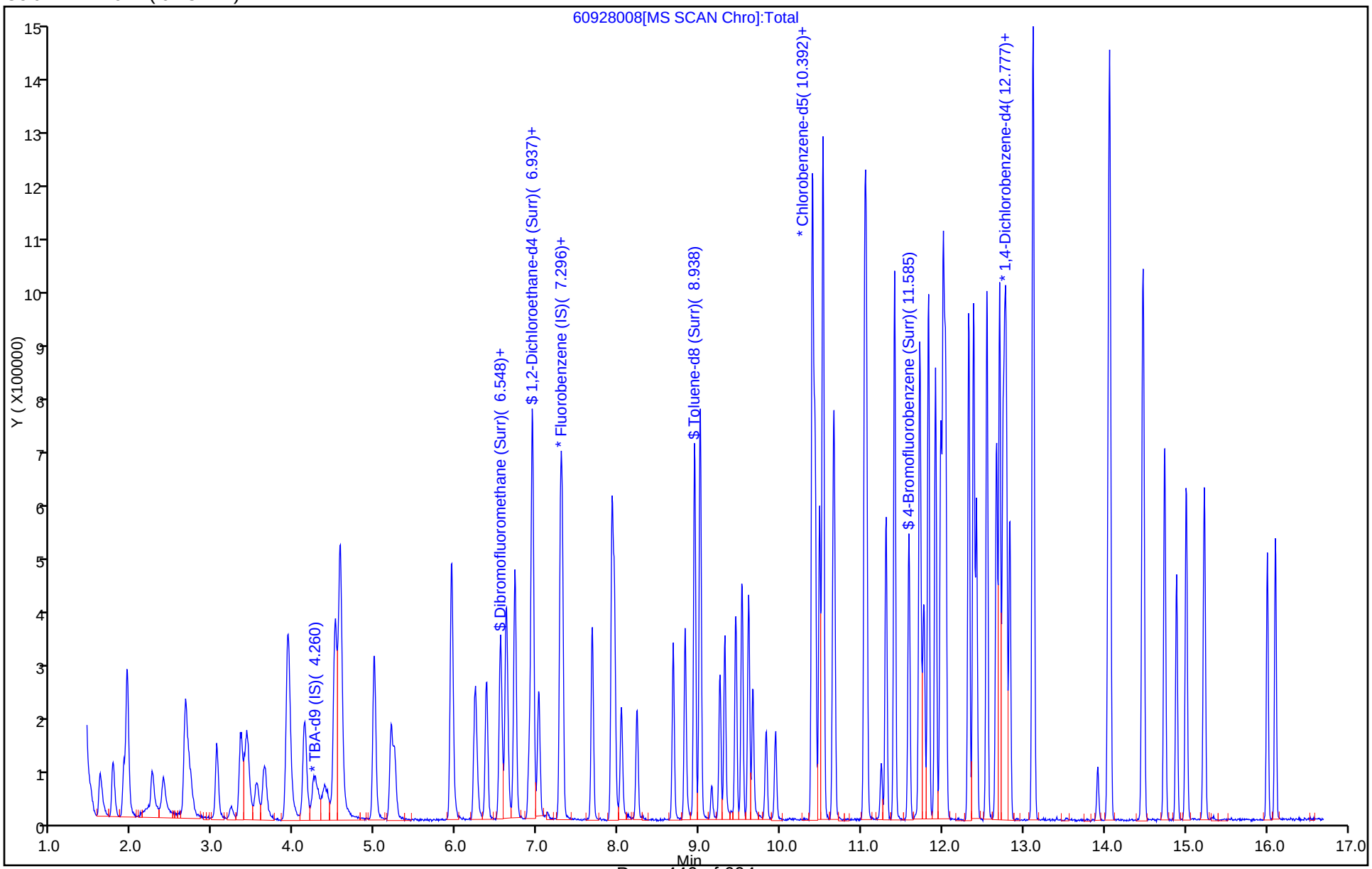
Report Date: 28-Sep-2015 14:43:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928008.D

Injection Date:	28-Sep-2015 14:21:30	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)



Manual Integration/User Assign Peak Report

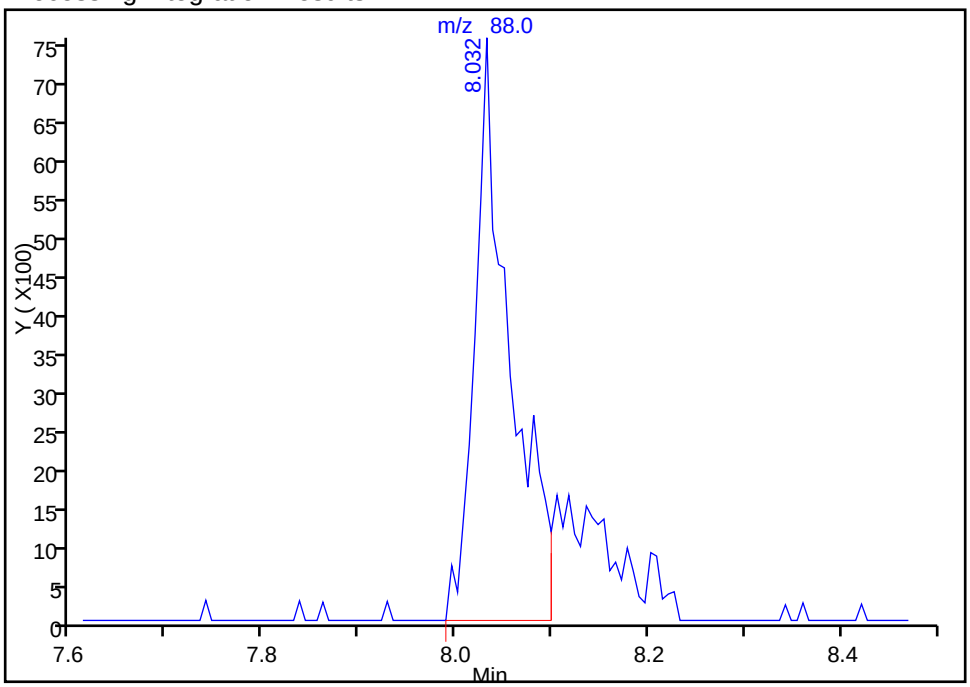
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150928-8724.b\60928008.D
Injection Date: 28-Sep-2015 14:21:30 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

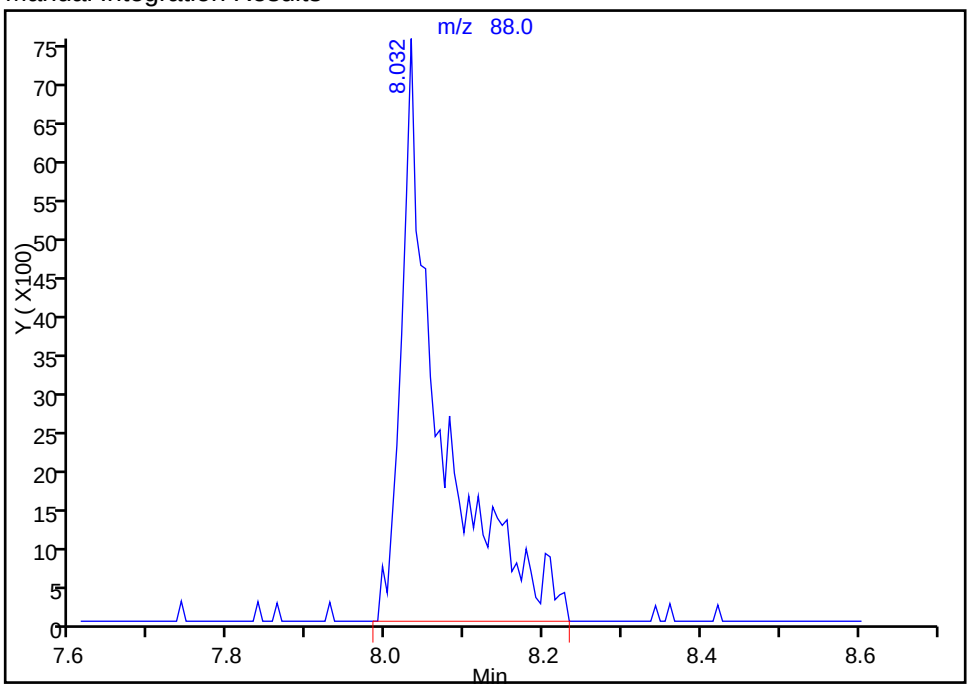
Processing Integration Results

RT: 8.03
Area: 19152
Amount: 691.5661
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 25925
Amount: 936.1347
Amount Units: ng



Reviewer: fergusond, 28-Sep-2015 14:43:45
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155230/8

Matrix: Water | Lab File ID: 60929008.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2015 14:18

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 155230 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	11.8		1.0	0.28
75-01-4	Vinyl chloride	11.0		1.0	0.23
74-83-9	Bromomethane	8.98		1.0	0.31
75-00-3	Chloroethane	10.2		1.0	0.21
75-35-4	1,1-Dichloroethene	8.12		1.0	0.30
67-64-1	Acetone	22.2		5.0	2.5
75-15-0	Carbon disulfide	7.88		1.0	0.21
75-09-2	Methylene Chloride	8.48		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.49		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.25		1.0	0.18
75-34-3	1,1-Dichloroethane	9.22		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.19		1.0	0.24
74-97-5	Bromochloromethane	9.60		1.0	0.18
78-93-3	2-Butanone (MEK)	22.3		5.0	0.55
67-66-3	Chloroform	8.88		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.29		1.0	0.29
56-23-5	Carbon tetrachloride	9.19		1.0	0.14
71-43-2	Benzene	9.41		1.0	0.11
107-06-2	1,2-Dichloroethane	9.62		1.0	0.21
79-01-6	Trichloroethene	10.7		1.0	0.14
78-87-5	1,2-Dichloropropane	10.7		1.0	0.095
75-27-4	Bromodichloromethane	9.04		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	9.54		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	22.4		5.0	0.53
108-88-3	Toluene	10.5		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	9.51		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.1		1.0	0.20
127-18-4	Tetrachloroethene	11.0		1.0	0.15
591-78-6	2-Hexanone	25.6		5.0	0.16
124-48-1	Dibromochloromethane	10.5		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.6		1.0	0.18
108-90-7	Chlorobenzene	11.0		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	10.9		1.0	0.28
100-41-4	Ethylbenzene	11.1		1.0	0.23
1330-20-7	Xylenes, Total	22.1		3.0	0.49
100-42-5	Styrene	11.8		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155230/8

Matrix: Water | Lab File ID: 60929008.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2015 14:18

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 155230 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	11.6		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.8		1.0	0.20
107-13-1	Acrylonitrile	108		20	0.55
123-91-1	1,4-Dioxane	219		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-135
2037-26-5	Toluene-d8 (Surr)	110		71-118
460-00-4	4-Bromofluorobenzene (Surr)	101		70-118
1868-53-7	Dibromofluoromethane (Surr)	99		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929008.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Sep-2015 14:18:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0008741-008
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 29-Sep-2015 15:19:53 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: XAWRK018

First Level Reviewer: fergusond Date: 29-Sep-2015 15:20:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.262	4.242	0.020	88	186647	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.283	0.009	98	465928	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.394	10.398	-0.004	90	102227	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.746	0.003	94	183792	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.553	0.003	93	106400	50.0	49.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.931	0.002	72	182798	50.0	52.8	
$ 7 Toluene-d8 (Surr)	98	8.940	8.938	0.002	94	444397	50.0	55.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.584	0.003	84	180062	50.0	50.3	
11 Dichlorodifluoromethane	85	1.610	1.608	0.002	99	157357	50.0	48.8	
12 Chloromethane	50	1.762	1.766	-0.004	100	163630	50.0	58.8	
13 Vinyl chloride	62	1.896	1.900	-0.004	98	165377	50.0	55.2	
14 Butadiene	39	1.938	1.936	0.002	97	179833	50.0	64.0	
15 Bromomethane	94	2.249	2.246	0.003	92	72621	50.0	44.9	
16 Chloroethane	64	2.389	2.380	0.009	99	104132	50.0	50.9	
17 Dichlorofluoromethane	67	2.662	2.654	0.008	97	230710	50.0	48.5	
18 Trichlorofluoromethane	101	2.681	2.690	-0.009	97	188257	50.0	49.6	
20 Ethyl ether	59	3.052	3.043	0.009	94	119355	50.0	44.4	
21 Acrolein	56	3.216	3.214	0.002	98	32843	150.0	112.0	
22 1,1-Dichloroethene	96	3.338	3.335	0.003	95	95166	50.0	40.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.411	3.408	0.003	94	109292	50.0	44.1	
24 Acetone	43	3.435	3.420	0.015	97	91403	100.0	110.9	
25 Iodomethane	142	3.532	3.530	0.002	99	143689	50.0	45.6	
26 Carbon disulfide	76	3.630	3.627	0.003	100	239444	50.0	39.4	
29 3-Chloro-1-propene	76	3.922	3.913	0.009	87	52471	50.0	39.7	
30 Methyl acetate	43	3.934	3.919	0.015	99	526356	250.0	272.3	
31 Methylene Chloride	84	4.128	4.120	0.008	97	140243	50.0	42.4	
32 2-Methyl-2-propanol	59	4.390	4.376	0.014	89	113245	500.0	539.2	
33 Acrylonitrile	53	4.506	4.503	0.003	99	523787	500.0	537.6	
34 trans-1,2-Dichloroethene	96	4.566	4.558	0.008	78	114902	50.0	42.5	
35 Methyl tert-butyl ether	73	4.573	4.570	0.003	97	334491	50.0	41.2	
36 Hexane	57	4.986	4.984	0.002	94	194020	50.0	52.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.199	5.191	0.008	98	223479	50.0	46.1	
38 Vinyl acetate	43	5.242	5.239	0.003	98	201631	50.0	51.5	
43 cis-1,2-Dichloroethene	96	5.941	5.939	0.002	85	120487	50.0	40.9	
42 2,2-Dichloropropane	77	5.941	5.939	0.002	58	91266	50.0	37.3	
44 2-Butanone (MEK)	43	5.947	5.945	0.002	63	125712	100.0	111.7	
48 Chlorobromomethane	128	6.227	6.231	-0.004	93	56730	50.0	48.0	
49 Tetrahydrofuran	42	6.252	6.249	0.003	90	84947	100.0	112.1	
50 Chloroform	83	6.373	6.371	0.002	95	213631	50.0	44.4	
51 1,1,1-Trichloroethane	97	6.537	6.541	-0.004	96	147335	50.0	41.5	
52 Cyclohexane	56	6.617	6.614	0.003	95	228446	50.0	50.2	
53 Carbon tetrachloride	117	6.714	6.712	0.002	87	115316	50.0	45.9	
54 1,1-Dichloropropene	75	6.726	6.724	0.002	90	173256	50.0	45.3	
55 Isobutyl alcohol	41	6.909	6.894	0.015	89	115015	1250.0	1706.2	
56 Benzene	78	6.945	6.937	0.008	98	510998	50.0	47.1	
57 1,2-Dichloroethane	62	7.024	7.016	0.008	98	210447	50.0	48.1	
59 n-Heptane	43	7.310	7.308	0.002	92	181362	50.0	61.4	
61 Trichloroethene	130	7.675	7.679	-0.004	96	121288	50.0	53.6	
63 Methylcyclohexane	83	7.925	7.922	0.003	93	207170	50.0	45.1	
64 1,2-Dichloropropane	63	7.949	7.953	-0.004	83	138289	50.0	53.3	
67 Dibromomethane	93	8.034	8.032	0.002	93	76369	50.0	48.5	
65 1,4-Dioxane	88	8.028	8.032	-0.004	37	28021	1000.0	1094.3	
68 Dichlorobromomethane	83	8.229	8.226	0.003	97	133806	50.0	45.2	
71 cis-1,3-Dichloropropene	75	8.679	8.677	0.002	90	155162	50.0	47.7	
72 4-Methyl-2-pentanone (MIBK	43	8.825	8.823	0.002	97	235593	100.0	112.1	
73 Toluene	91	9.013	9.011	0.002	98	552279	50.0	52.4	
74 trans-1,3-Dichloropropene	75	9.257	9.254	0.003	99	127364	50.0	47.6	
75 Ethyl methacrylate	69	9.318	9.315	0.003	91	156158	50.0	54.9	
76 1,1,2-Trichloroethane	97	9.451	9.449	0.002	96	110105	50.0	50.5	
77 Tetrachloroethene	164	9.524	9.522	0.002	96	99151	50.0	55.1	
78 1,3-Dichloropropane	76	9.610	9.607	0.003	96	209425	50.0	52.0	
79 2-Hexanone	43	9.658	9.662	-0.004	97	176423	100.0	127.8	
81 Chlorodibromomethane	129	9.823	9.826	-0.003	91	78065	50.0	52.4	
82 Ethylene Dibromide	107	9.938	9.942	-0.004	100	102463	50.0	53.1	
83 3-Chlorobenzotrifluoride	180	10.394	10.398	-0.004	91	183723	50.0	54.4	
84 Chlorobenzene	112	10.425	10.429	-0.004	91	355885	50.0	54.9	
85 4-Chlorobenzotrifluoride	180	10.486	10.483	0.003	97	174373	50.0	55.7	
86 1,1,1,2-Tetrachloroethane	131	10.522	10.520	0.002	86	96938	50.0	54.6	
87 Ethylbenzene	106	10.528	10.526	0.002	99	202978	50.0	55.5	
88 m-Xylene & p-Xylene	106	10.662	10.660	0.002	99	253080	50.0	55.8	
89 o-Xylene	106	11.039	11.037	0.002	97	248123	50.0	54.6	
90 Styrene	104	11.064	11.061	0.003	94	410521	50.0	58.9	
91 Bromoform	173	11.246	11.244	0.002	94	46185	50.0	58.1	
92 2-Chlorobenzotrifluoride	180	11.307	11.305	0.002	96	185015	50.0	53.5	
93 Isopropylbenzene	105	11.410	11.408	0.002	98	636287	50.0	58.6	
96 1,1,2,2-Tetrachloroethane	83	11.715	11.712	0.003	95	157007	50.0	53.8	
95 Bromobenzene	156	11.727	11.724	0.003	98	154812	50.0	52.4	
97 trans-1,4-Dichloro-2-buten	53	11.751	11.755	-0.004	71	43135	50.0	46.0	
98 1,2,3-Trichloropropane	110	11.775	11.773	0.002	86	57184	50.0	50.9	
99 N-Propylbenzene	120	11.824	11.828	-0.004	99	173530	50.0	51.0	
100 2-Chlorotoluene	126	11.915	11.913	0.002	94	146325	50.0	51.8	
101 3-Chlorotoluene	126	11.982	11.980	0.002	96	148582	50.0	50.1	
102 1,3,5-Trimethylbenzene	105	12.013	12.010	0.003	93	563047	50.0	50.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 4-Chlorotoluene	126	12.037	12.041	-0.004	100	162887	50.0	54.6	
104 tert-Butylbenzene	119	12.323	12.327	-0.004	91	429690	50.0	49.2	
106 1,2,4-Trimethylbenzene	105	12.384	12.381	0.003	99	564994	50.0	49.9	
107 1,2-dichloro-4-(trifluorom	214	12.420	12.418	0.002	98	159991	50.0	49.9	
108 sec-Butylbenzene	105	12.548	12.546	0.002	96	681337	50.0	52.2	
109 1,3-Dichlorobenzene	146	12.670	12.667	0.003	95	292962	50.0	50.8	
110 4-Isopropyltoluene	119	12.706	12.704	0.002	95	556588	50.0	50.8	
111 1,4-Dichlorobenzene	146	12.773	12.771	0.002	92	309005	50.0	52.4	
113 2,4-Dichloro-1-(triflourom	214	12.791	12.789	0.002	93	151875	50.0	47.6	
114 2,5-Dichlorobenzotrifluori	214	12.834	12.832	0.002	98	179619	50.0	50.4	
116 n-Butylbenzene	91	13.114	13.111	0.003	98	529831	50.0	48.5	
117 1,2-Dichlorobenzene	146	13.126	13.130	-0.004	92	299578	50.0	51.4	
118 1,2-Dibromo-3-Chloropropan	75	13.911	13.914	-0.003	68	22058	50.0	41.3	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.063	14.060	0.003	99	696404	150.0	137.3	
121 2,3- & 3,4- Dichlorotoluen	125	14.476	14.474	0.002	99	498709	100.0	89.1	
122 1,2,4-Trichlorobenzene	180	14.744	14.742	0.002	94	218419	50.0	48.4	
123 Hexachlorobutadiene	225	14.890	14.888	0.002	95	91186	50.0	51.3	
124 Naphthalene	128	15.006	15.009	-0.003	98	451554	50.0	49.5	
125 1,2,3-Trichlorobenzene	180	15.231	15.235	-0.003	95	193365	50.0	45.8	
126 2,4,5-Trichlorotoluene	159	16.009	16.007	0.002	0	113309	50.0	39.9	
127 2,3,6-Trichlorotoluene	159	16.107	16.111	-0.004	94	118486	50.0	44.0	
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	110.4	
S 130 1,2-Dichloroethene, Total	96				0		100.0	83.4	
S 132 1,3-Dichloropropene, Total	1				0		100.0	95.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL		
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
VOA8260VOA2ND_00144	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	

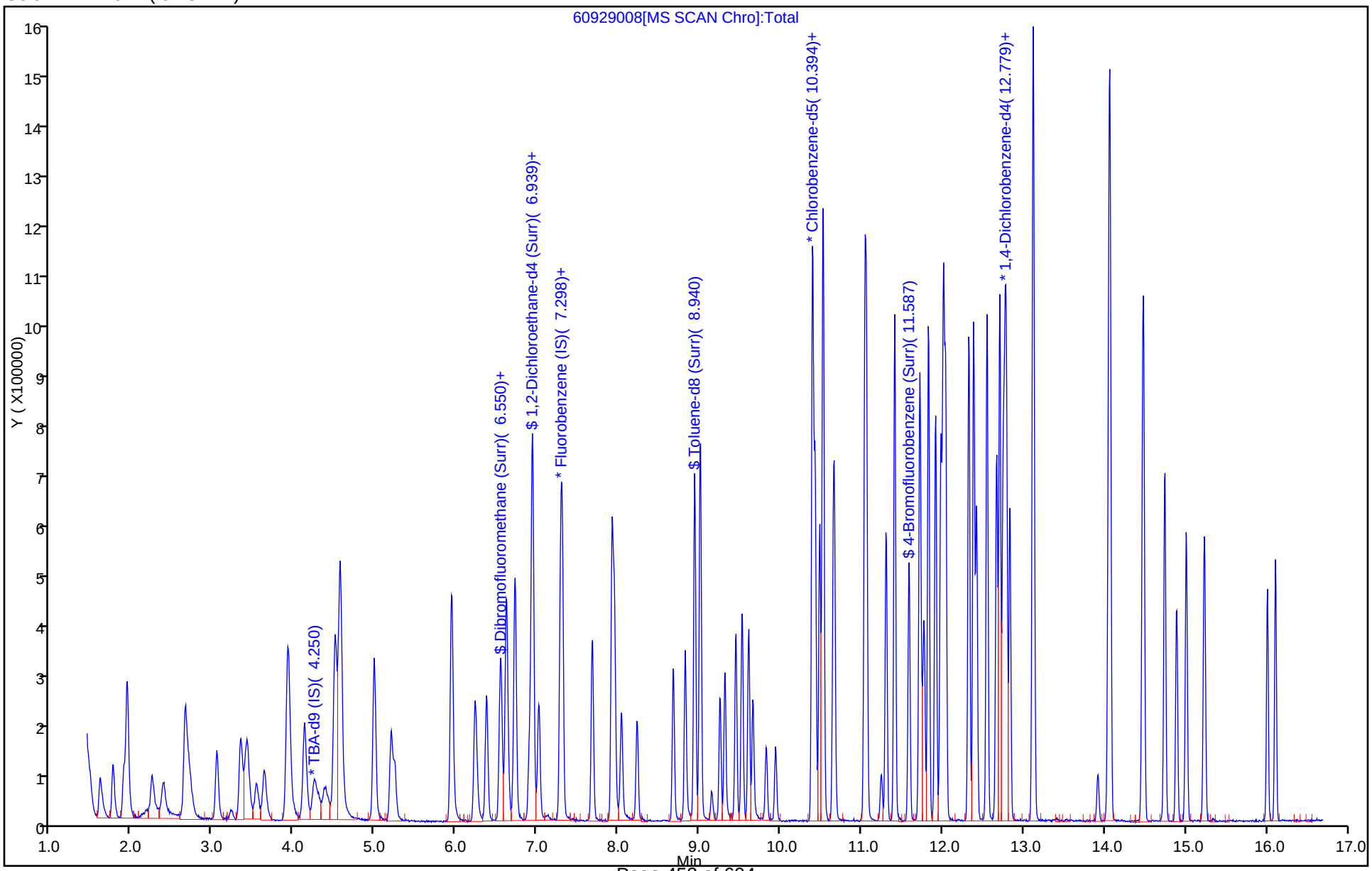
Report Date: 29-Sep-2015 15:20:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150929-8741.b\60929008.D

Injection Date:	29-Sep-2015 14:18:30	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#:	7
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

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.: 180-47935-1

SDG No.:

Instrument ID: CHHP6 Start Date: 09/28/2015 10:22

Analysis Batch Number: 155089 End Date: 09/28/2015 22:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-155089/1		09/28/2015 10:22	1	60928001.D	DB-624 0.18(mm)
CCVIS 180-155089/2		09/28/2015 11:03	1	60928002.D	DB-624 0.18(mm)
ZZZZZ		09/28/2015 11:42	1		DB-624 0.18(mm)
MB 180-155089/4		09/28/2015 12:18	1	60928004.D	DB-624 0.18(mm)
ZZZZZ		09/28/2015 13:00	1		DB-624 0.18(mm)
ZZZZZ		09/28/2015 13:33	1		DB-624 0.18(mm)
ZZZZZ		09/28/2015 13:57	1		DB-624 0.18(mm)
LCS 180-155089/8		09/28/2015 14:21	1	60928008.D	DB-624 0.18(mm)
ZZZZZ		09/28/2015 14:46	1		DB-624 0.18(mm)
ZZZZZ		09/28/2015 15:10	1		DB-624 0.18(mm)
ZZZZZ		09/28/2015 15:58	1250		DB-624 0.18(mm)
ZZZZZ		09/28/2015 16:22	1		DB-624 0.18(mm)
ZZZZZ		09/28/2015 16:47	1		DB-624 0.18(mm)
ZZZZZ		09/28/2015 17:11	1		DB-624 0.18(mm)
180-47935-1 DL	HD-MW-129-0/1-0 DL	09/28/2015 17:35	200	60928016.D	DB-624 0.18(mm)
180-47935-2 DL	HD-MW-131-0/1-0 DL	09/28/2015 18:00	40	60928017.D	DB-624 0.18(mm)
180-47935-3 DL	HD-MW-132-0/1-0 DL	09/28/2015 18:24	25	60928018.D	DB-624 0.18(mm)
180-47935-4	HD-MW-134-0/1-0	09/28/2015 18:49	1	60928019.D	DB-624 0.18(mm)
180-47935-5 DL	HD-MW-114-0/1-0 DL	09/28/2015 19:13	100	60928020.D	DB-624 0.18(mm)
ZZZZZ		09/28/2015 20:02	1		DB-624 0.18(mm)
ZZZZZ		09/28/2015 20:26	1		DB-624 0.18(mm)
180-47935-7	HD-QC4-0/1-2	09/28/2015 20:50	1	60928024.D	DB-624 0.18(mm)
180-47935-1	HD-MW-129-0/1-0	09/28/2015 21:14	20	60928025.D	DB-624 0.18(mm)
180-47935-2	HD-MW-131-0/1-0	09/28/2015 21:38	4	60928026.D	DB-624 0.18(mm)
180-47935-3	HD-MW-132-0/1-0	09/28/2015 22:03	2.5	60928027.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Instrument ID: CHHP6 Start Date: 09/29/2015 10:59

Analysis Batch Number: 155230 End Date: 09/29/2015 22:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-155230/4		09/29/2015 10:59	1	60929004.D	DB-624 0.18(mm)
CCVIS 180-155230/2		09/29/2015 11:39	1	60929002.D	DB-624 0.18(mm)
ZZZZZ		09/29/2015 12:18	1		DB-624 0.18(mm)
MB 180-155230/5		09/29/2015 12:50	1	60929005.D	DB-624 0.18(mm)
ZZZZZ		09/29/2015 13:29	1		DB-624 0.18(mm)
ZZZZZ		09/29/2015 13:54	1		DB-624 0.18(mm)
LCS 180-155230/8		09/29/2015 14:18	1	60929008.D	DB-624 0.18(mm)
ZZZZZ		09/29/2015 14:42	1		DB-624 0.18(mm)
ZZZZZ		09/29/2015 15:06	1		DB-624 0.18(mm)
180-47935-6	HD-MW-46-0/1-0	09/29/2015 15:55	5	60929012.D	DB-624 0.18(mm)
ZZZZZ		09/29/2015 16:19	100		DB-624 0.18(mm)
ZZZZZ		09/29/2015 16:43	1		DB-624 0.18(mm)
ZZZZZ		09/29/2015 17:07	200		DB-624 0.18(mm)
ZZZZZ		09/29/2015 17:32	1		DB-624 0.18(mm)
ZZZZZ		09/29/2015 17:56	1		DB-624 0.18(mm)
ZZZZZ		09/29/2015 18:21	1		DB-624 0.18(mm)
ZZZZZ		09/29/2015 18:45	1		DB-624 0.18(mm)
ZZZZZ		09/29/2015 19:09	1		DB-624 0.18(mm)
ZZZZZ		09/29/2015 19:57	10		DB-624 0.18(mm)
ZZZZZ		09/29/2015 20:22	1		DB-624 0.18(mm)
ZZZZZ		09/29/2015 20:47	10		DB-624 0.18(mm)
ZZZZZ		09/29/2015 21:11	10		DB-624 0.18(mm)
ZZZZZ		09/29/2015 21:59	1		DB-624 0.18(mm)
180-47935-5	HD-MW-114-0/1-0	09/29/2015 22:24	10	60929028.D	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.: 180-47935-1

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-129-0/1-0	180-47935-1	53	58	56	60	59	67
HD-MW-131-0/1-0	180-47935-2	54	59	56	60	60	68
HD-MW-132-0/1-0	180-47935-3	44	47	48	49	57	69
HD-MW-134-0/1-0	180-47935-4	52	58	60	64	68	75
	MB 180-154864/1-A	65	67	63	67	65	80
	LCS 180-154864/2-A	81	85	76	84	90	86
	LCSD 180-154864/3-A	71	71	69	72	83	79

	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.: 180-47935-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V0930018.D

Lab ID: LCS 180-154864/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	20.0	16.6	83	36-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V0930019.D

Lab ID: LCSD 180-154864/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	20.0	13.9	70	18	26	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.: 180-47935-1

SDG No.:

Lab File ID: V0930017.D Lab Sample ID: MB 180-154864/1-A

Matrix: Water Date Extracted: 09/25/2015 09:58

Instrument ID: CH731 Date Analyzed: 09/30/2015 12:51

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-154864/2-A	V0930018.D	09/30/2015 13:20
	LCSD 180-154864/3-A	V0930019.D	09/30/2015 13:48
HD-MW-129-0/1-0	180-47935-1	V0930021.D	09/30/2015 14:45
HD-MW-131-0/1-0	180-47935-2	V0930022.D	09/30/2015 15:13
HD-MW-132-0/1-0	180-47935-3	V0930023.D	09/30/2015 15:42
HD-MW-134-0/1-0	180-47935-4	V0930024.D	09/30/2015 16:10

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab File ID: V0901002.D DFTPP Injection Date: 08/31/2015

Instrument ID: CH731 DFTPP Injection Time: 13:24

Analysis Batch No.: 152241

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	40.2	
68	Less than 2.0 % of mass 69	0.2	(0.6) 1
69	Mass 69 relative abundance	43.8	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	48.1	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.4	
275	10.0 - 30.0 % of mass 198	21.1	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	7.3	(67.7) 3
442	Greater than 40.0 % of mass 198	55.1	
443	17.0 - 23.0 % of mass 442	10.9	(19.7) 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 180-152241/3	V0901003.D	08/31/2015	13:40
	IC 180-152241/4	V0901004.D	08/31/2015	14:08
	IC 180-152241/5	V0901005.D	08/31/2015	14:36
	ICIS 180-152241/6	V0901006.D	08/31/2015	15:03
	IC 180-152241/7	V0901007.D	08/31/2015	15:31
	IC 180-152241/8	V0901008.D	08/31/2015	15:59
	IC 180-152241/9	V0901009.D	08/31/2015	16:27
	IC 180-152241/10	V0901010.D	08/31/2015	16:55
	ICV 180-152241/11	V0901011.D	08/31/2015	17:22
	ICV 180-152241/12	V0901012.D	08/31/2015	17:50
	ICV 180-152241/13	V0901013.D	08/31/2015	18:17
	ICV 180-152241/14	V0901014.D	08/31/2015	18:45

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab File ID: V0930002.D DFTPP Injection Date: 09/30/2015

Instrument ID: CH731 DFTPP Injection Time: 06:01

Analysis Batch No.: 155320

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	34.8	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	38.3	
70	Less than 2.0 % of mass 69	0.2	(0.5) 1
127	40.0 - 60.0 % of mass 198	45.4	
197	Less than 1.0 % of mass 198	0.5	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.7	
275	10.0 - 30.0 % of mass 198	23.2	
365	Greater than 1.0 % of mass 198	2.9	
441	Present but less than mass 443	9.6	(72.6) 3
442	Greater than 40.0 % of mass 198	66.0	
443	17.0 - 23.0 % of mass 442	13.3	(20.1) 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 180-155320/3	V0930003.D	09/30/2015	06:17
	MB 180-154864/1-A	V0930017.D	09/30/2015	12:51
	LCS 180-154864/2-A	V0930018.D	09/30/2015	13:20
	LCSD 180-154864/3-A	V0930019.D	09/30/2015	13:48
HD-MW-129-0/1-0	180-47935-1	V0930021.D	09/30/2015	14:45
HD-MW-131-0/1-0	180-47935-2	V0930022.D	09/30/2015	15:13
HD-MW-132-0/1-0	180-47935-3	V0930023.D	09/30/2015	15:42
HD-MW-134-0/1-0	180-47935-4	V0930024.D	09/30/2015	16:10

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Sample No.: ICIS 180-152241/6 Date Analyzed: 08/31/2015 15:03

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V0901006.D Heated Purge: (Y/N) N

Calibration ID: 25150

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		102411	6.26	424311	7.49	262115	9.13
UPPER LIMIT		204822	6.76	848622	7.99	524230	9.63
LOWER LIMIT		51206	5.76	212156	6.99	131058	8.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 180-152241/11		101132	6.26	398254	7.48	251109	9.12
ICV 180-152241/12		105967	6.26	412602	7.49	256611	9.12
ICV 180-152241/13		101558	6.26	392571	7.48	246829	9.12
ICV 180-152241/14		112512	6.26	456940	7.49	288578	9.13

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.: 180-47935-1

SDG No.:

Sample No.: ICIS 180-152241/6 Date Analyzed: 08/31/2015 15:03

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V0901006.D Heated Purge: (Y/N) N

Calibration ID: 25150

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		479159	10.51	507170	14.07	481094	17.03
UPPER LIMIT		958318	11.01	1014340	14.57	962188	17.53
LOWER LIMIT		239580	10.01	253585	13.57	240547	16.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 180-152241/11		446658	10.51	478049	14.07	460156	17.03
ICV 180-152241/12		460270	10.50	485861	14.07	454753	17.02
ICV 180-152241/13		456810	10.51	523010	14.07	521907	17.02
ICV 180-152241/14		504172	10.51	491984	14.07	450143	17.03

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

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

Column used to flag values outside QC limits

FORM VIII 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Sample No.: CCVIS 180-155320/3 Date Analyzed: 09/30/2015 06:17

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V0930003.D Heated Purge: (Y/N) N

Calibration ID: 25150

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		124638	6.29	479090	7.52	292775	9.17
UPPER LIMIT		249276	6.79	958180	8.02	585550	9.67
LOWER LIMIT		62319	5.79	239545	7.02	146388	8.67
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-154864/1-A		135497	6.28	551769	7.51	337460	9.15
LCS 180-154864/2-A		111316	6.28	469773	7.51	297948	9.15
LCSD 180-154864/3-A		135392	6.28	539263	7.51	348589	9.15
180-47935-1	HD-MW-129-0/1-0	127313	6.28	500051	7.51	299710	9.14
180-47935-2	HD-MW-131-0/1-0	124555	6.28	497647	7.51	298796	9.15
180-47935-3	HD-MW-132-0/1-0	130482	6.29	503758	7.51	319096	9.15
180-47935-4	HD-MW-134-0/1-0	124169	6.29	473242	7.51	291100	9.14

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.: 180-47935-1

SDG No.:

Sample No.: CCVIS 180-155320/3 Date Analyzed: 09/30/2015 06:17

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V0930003.D Heated Purge: (Y/N) N

Calibration ID: 25150

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		550565	10.55	614488	14.15	583457	17.13
UPPER LIMIT		1101130	11.05	1228976	14.65	1166914	17.63
LOWER LIMIT		275283	10.05	307244	13.65	291729	16.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-154864/1-A		625422	10.53	648702	14.11	610670	17.07
LCS 180-154864/2-A		589488	10.53	683879	14.11	649886	17.08
LCSD 180-154864/3-A		676907	10.53	773406	14.12	749068	17.08
180-47935-1	HD-MW-129-0/1-0	551608	10.53	619858	14.10	600402	17.07
180-47935-2	HD-MW-131-0/1-0	564057	10.53	635336	14.11	600429	17.08
180-47935-3	HD-MW-132-0/1-0	563482	10.54	617772	14.12	610653	17.08
180-47935-4	HD-MW-134-0/1-0	544509	10.53	605533	14.11	599590	17.07

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.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-129-0/1-0 | Lab Sample ID: 180-47935-1

Matrix: Water | Lab File ID: V0930021.D

Analysis Method: 8270D LL | Date Collected: 09/18/2015 10:10

Extract. Method: 3520C | Date Extracted: 09/25/2015 09:58

Sample wt/vol: 270(mL) | Date Analyzed: 09/30/2015 14:45

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.: 155320 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.1		1.9	0.049

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	60		28-109
367-12-4	2-Fluorophenol (Surr)	53		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	59		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	56		27-114
4165-62-2	Phenol-d5 (Surr)	58		25-105
1718-51-0	Terphenyl-d14 (Surr)	67		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930021.D
Lims ID: 180-47935-A-1-A Lab Sample ID: 180-47935-1
Client ID: HD-MW-129-0/1-0
Sample Type: Client
Inject. Date: 30-Sep-2015 14:45:30 ALS Bottle#: 20 Worklist Smp#: 21
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008750-021
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Oct-2015 04:56:37 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: piccolinov Date: 01-Oct-2015 04:53:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.279	6.288	-0.009	94	127313	8.00	
* 2 Naphthalene-d8	136	7.508	7.522	-0.014	99	500051	8.00	
* 3 Acenaphthene-d10	164	9.142	9.167	-0.025	92	299710	8.00	
* 4 Phenanthrene-d10	188	10.526	10.551	-0.025	97	551608	8.00	
* 5 Chrysene-d12	240	14.100	14.151	-0.051	97	619858	8.00	
* 6 Perylene-d12	264	17.070	17.127	-0.057	98	600402	8.00	
$ 7 2-Fluorophenol	112	4.890	4.883	0.007	92	397896	21.2	
$ 8 Phenol-d5	99	5.921	5.924	-0.003	96	564051	23.0	
$ 9 Nitrobenzene-d5	82	6.813	6.827	-0.014	90	548164	22.5	
$ 10 2-Fluorobiphenyl	172	8.501	8.521	-0.020	100	1261160	24.1	
$ 11 2,4,6-Tribromophenol	330	9.869	9.894	-0.025	93	180765	23.6	
$ 12 Terphenyl-d14	244	12.326	12.362	-0.036	99	1587891	27.0	
13 1,4-Dioxane	88	1.498	1.448	0.050	91	29924	4.63	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

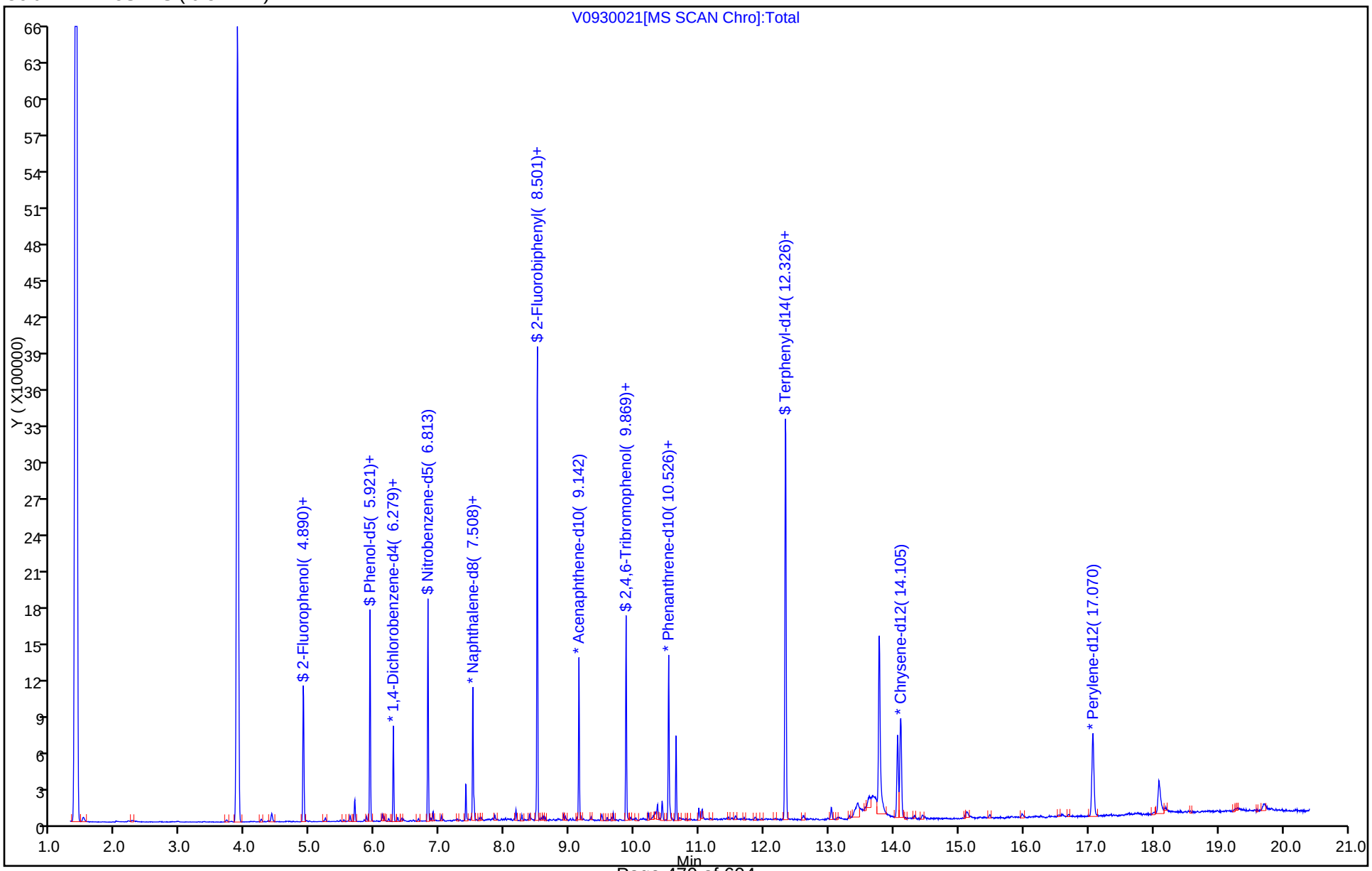
Report Date: 01-Oct-2015 04:57:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930021.D

Injection Date:	30-Sep-2015 14:45:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	180-47935-A-1-A	Lab Sample ID:	180-47935-1	Worklist Smp#:	21
Client ID:	HD-MW-129-0/1-0				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

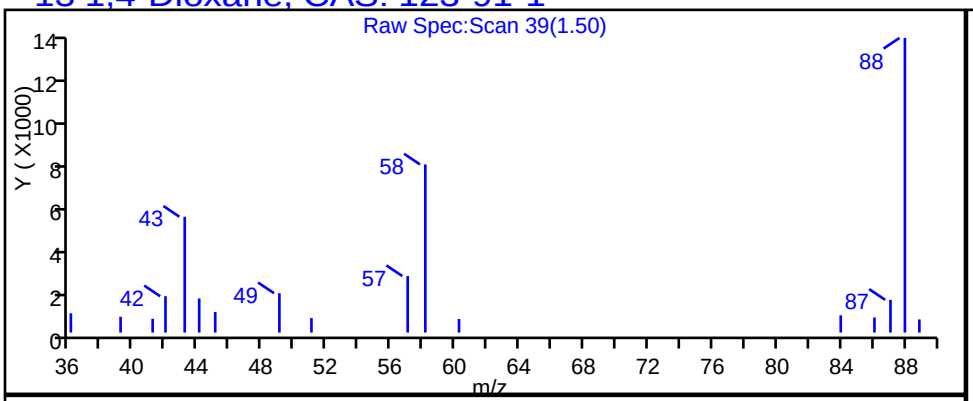


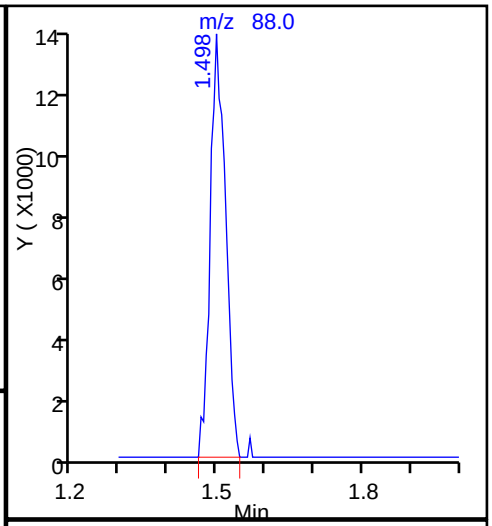
Report Date: 01-Oct-2015 04:57:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46

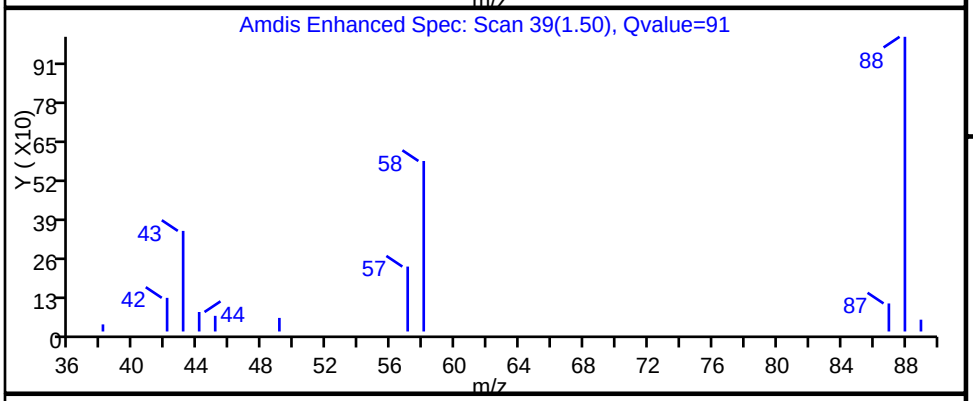
TestAmerica Pittsburgh

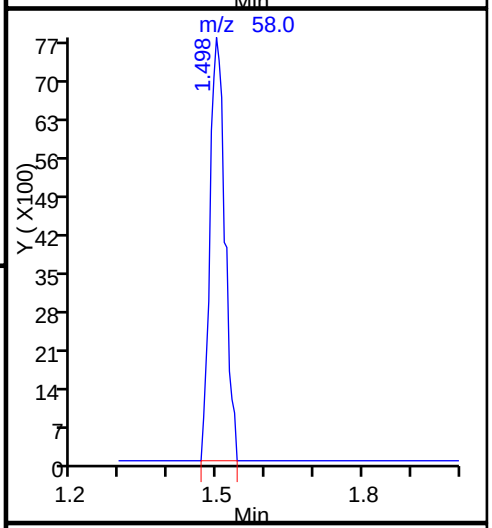
Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930021.D		
Injection Date:	30-Sep-2015 14:45:30	Instrument ID:	CH731
Lims ID:	180-47935-A-1-A	Lab Sample ID:	180-47935-1
Client ID:	HD-MW-129-0/1-0		
Operator ID:	003200	ALS Bottle#:	20 Worklist Smp#: 21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN

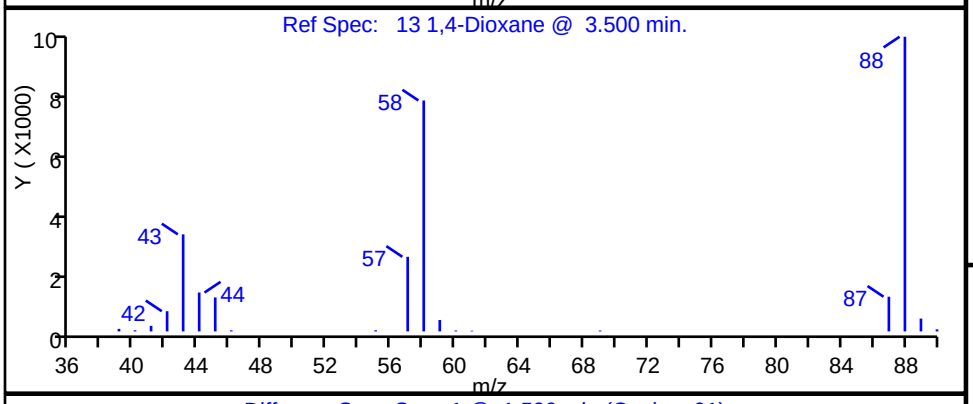
13 1,4-Dioxane, CAS: 123-91-1

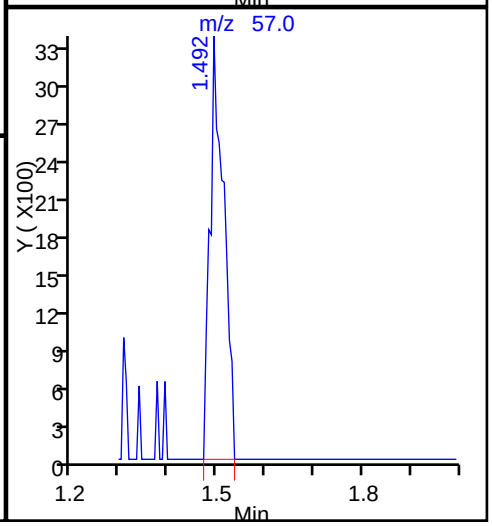


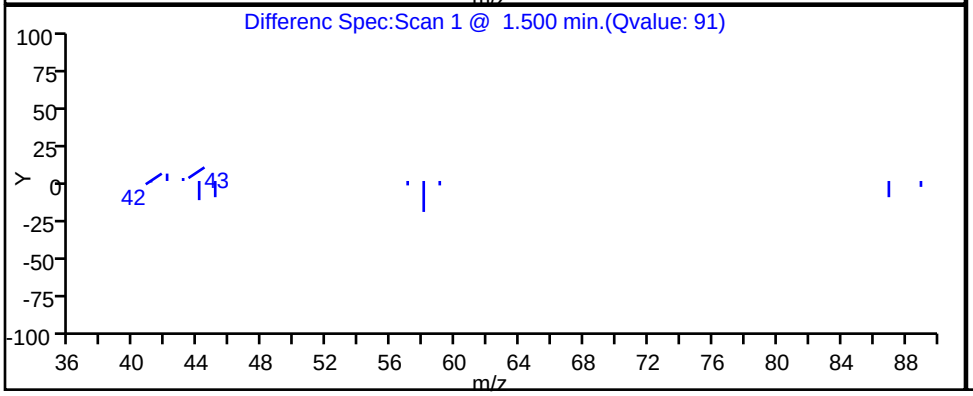












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-131-0/1-0 | Lab Sample ID: 180-47935-2

Matrix: Water | Lab File ID: V0930022.D

Analysis Method: 8270D LL | Date Collected: 09/18/2015 10:07

Extract. Method: 3520C | Date Extracted: 09/25/2015 09:58

Sample wt/vol: 270(mL) | Date Analyzed: 09/30/2015 15:13

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.: 155320 | 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)	54		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	60		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	56		27-114
4165-62-2	Phenol-d5 (Surr)	59		25-105
1718-51-0	Terphenyl-d14 (Surr)	68		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930022.D
Lims ID: 180-47935-A-2-A Lab Sample ID: 180-47935-2
Client ID: HD-MW-131-0/1-0
Sample Type: Client
Inject. Date: 30-Sep-2015 15:13:30 ALS Bottle#: 21 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008750-022
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Oct-2015 04:56:37 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: piccolinov Date: 01-Oct-2015 04:54:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.281	6.288	-0.007	96	124555	8.00	
* 2 Naphthalene-d8	136	7.510	7.522	-0.012	100	497647	8.00	
* 3 Acenaphthene-d10	164	9.145	9.167	-0.022	93	298796	8.00	
* 4 Phenanthrene-d10	188	10.528	10.551	-0.023	97	564057	8.00	
* 5 Chrysene-d12	240	14.107	14.151	-0.044	97	635336	8.00	
* 6 Perylene-d12	264	17.078	17.127	-0.049	98	600429	8.00	
$ 7 2-Fluorophenol	112	4.892	4.883	0.009	92	397490	21.7	
$ 8 Phenol-d5	99	5.923	5.924	-0.001	96	563114	23.5	
$ 9 Nitrobenzene-d5	82	6.815	6.827	-0.012	89	540750	22.3	
$ 10 2-Fluorobiphenyl	172	8.504	8.521	-0.017	99	1261424	24.2	
$ 11 2,4,6-Tribromophenol	330	9.871	9.894	-0.023	93	186733	23.9	
$ 12 Terphenyl-d14	244	12.334	12.362	-0.028	99	1650912	27.4	
13 1,4-Dioxane	88	1.495	1.448	0.047	91	93488	14.8	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

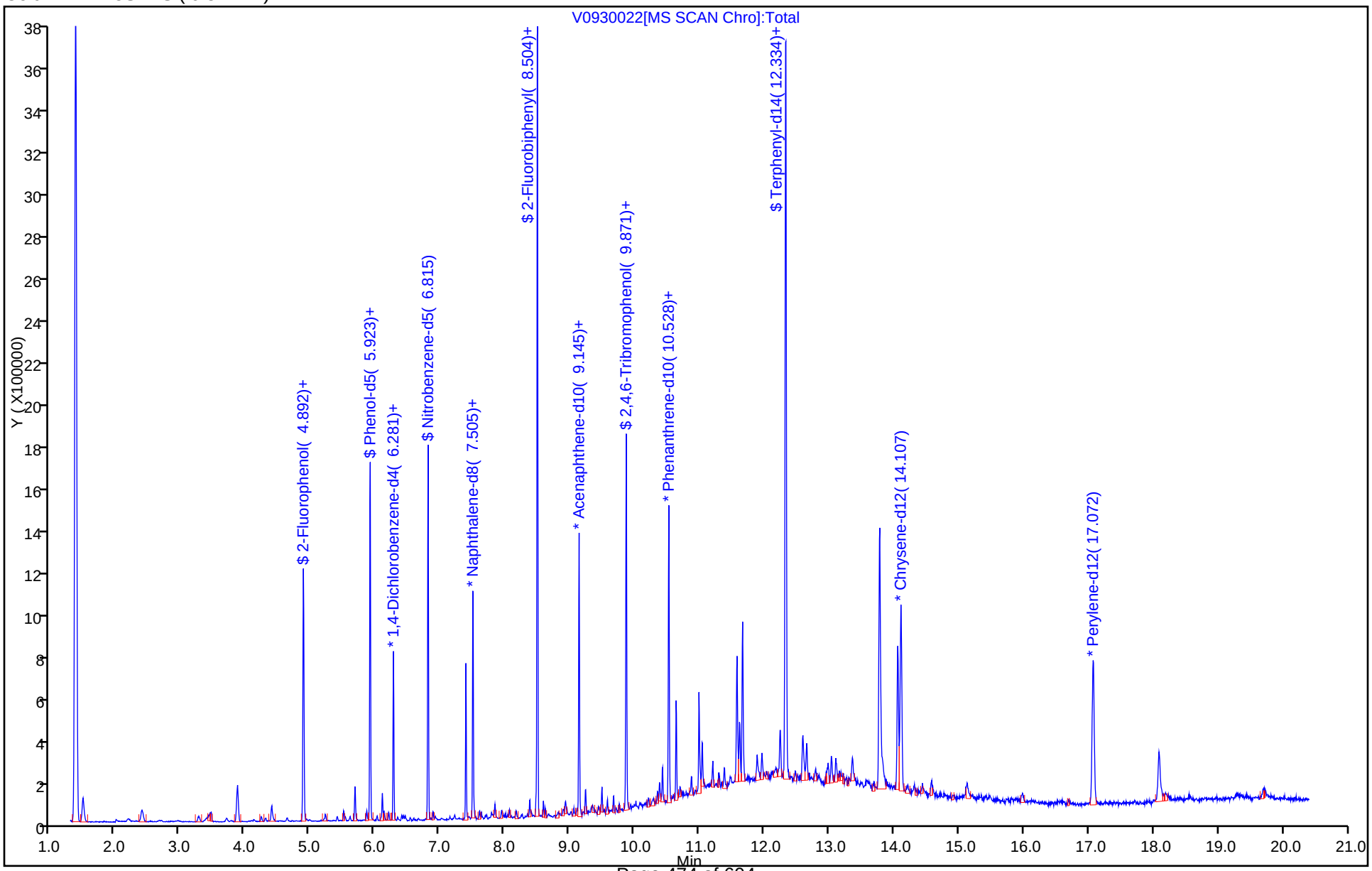
Report Date: 01-Oct-2015 04:57:27 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930022.D

Injection Date:	30-Sep-2015 15:13:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	180-47935-A-2-A	Lab Sample ID:	180-47935-2	Worklist Smp#:	22
Client ID:	HD-MW-131-0/1-0				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

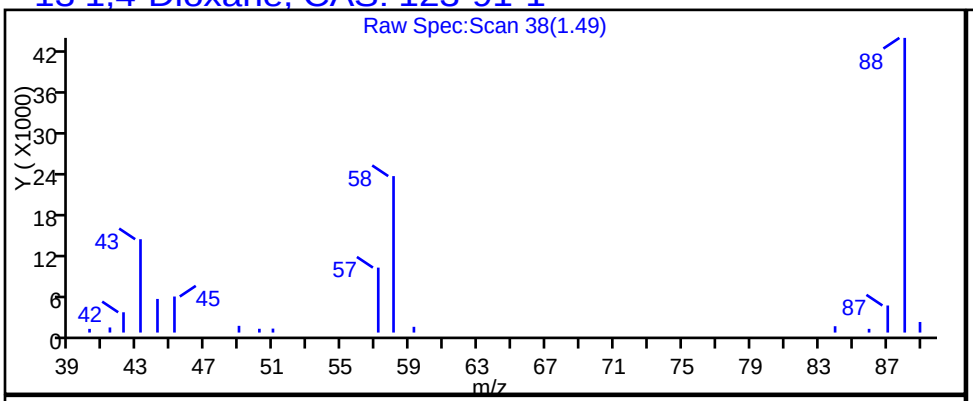


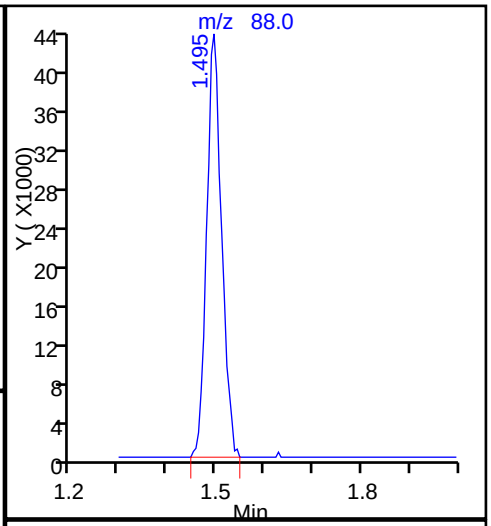
Report Date: 01-Oct-2015 04:57:27 Chrom Revision: 2.2 08-Sep-2015 13:41:46

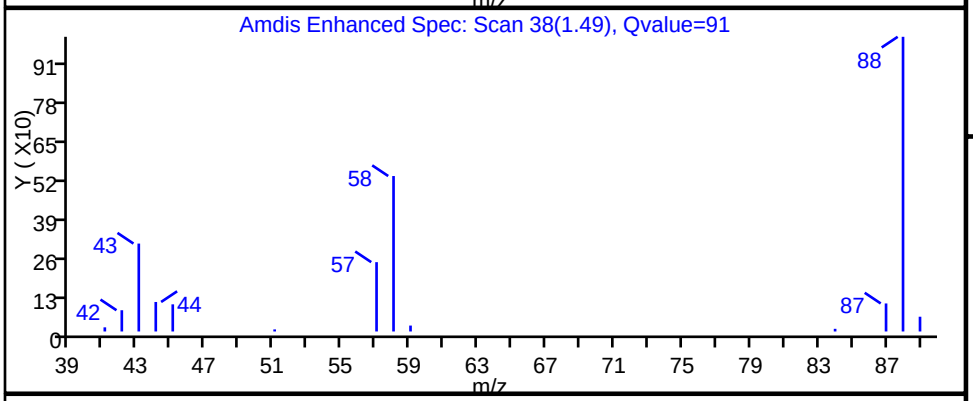
TestAmerica Pittsburgh

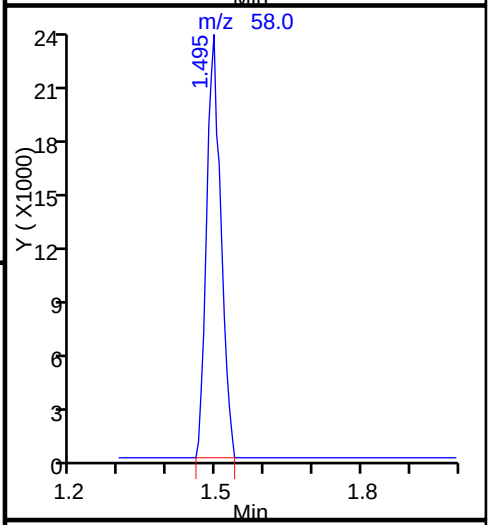
Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930022.D		
Injection Date:	30-Sep-2015 15:13:30	Instrument ID:	CH731
Lims ID:	180-47935-A-2-A	Lab Sample ID:	180-47935-2
Client ID:	HD-MW-131-0/1-0		
Operator ID:	003200	ALS Bottle#:	21 Worklist Smp#: 22
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN

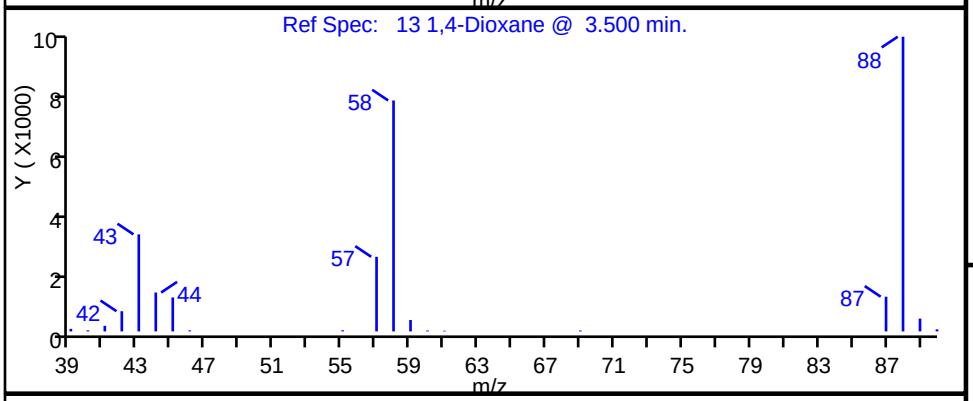
13 1,4-Dioxane, CAS: 123-91-1

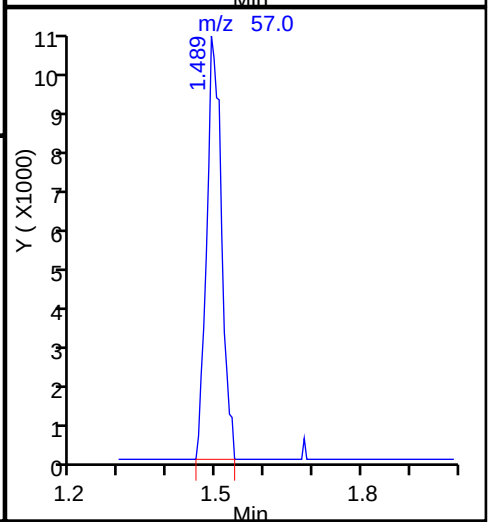


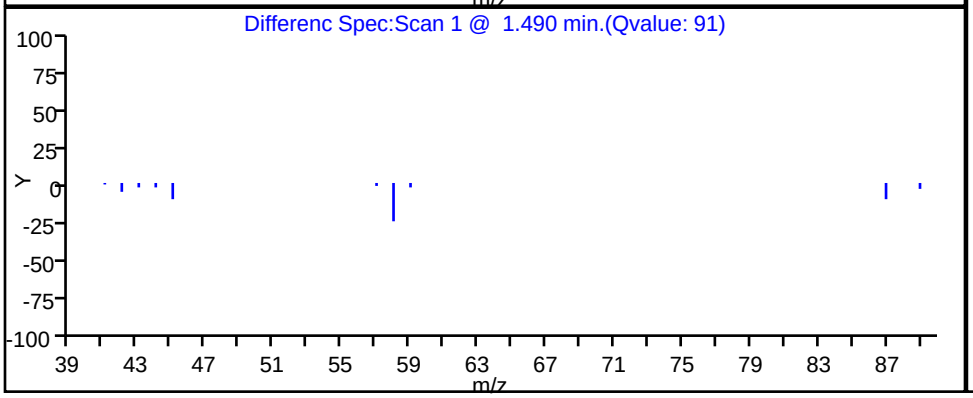












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-132-0/1-0 | Lab Sample ID: 180-47935-3

Matrix: Water | Lab File ID: V0930023.D

Analysis Method: 8270D LL | Date Collected: 09/18/2015 11:57

Extract. Method: 3520C | Date Extracted: 09/25/2015 09:58

Sample wt/vol: 270(mL) | Date Analyzed: 09/30/2015 15:42

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.: 155320 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	6.6		1.9	0.049

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	49		28-109
367-12-4	2-Fluorophenol (Surr)	44		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	57		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	48		27-114
4165-62-2	Phenol-d5 (Surr)	47		25-105
1718-51-0	Terphenyl-d14 (Surr)	69		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930023.D
Lims ID: 180-47935-A-3-A Lab Sample ID: 180-47935-3
Client ID: HD-MW-132-0/1-0
Sample Type: Client
Inject. Date: 30-Sep-2015 15:42:30 ALS Bottle#: 22 Worklist Smp#: 23
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008750-023
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Oct-2015 04:56:37 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: piccolinov Date: 01-Oct-2015 04:54:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.288	6.288	0.000	96	130482	8.00	
* 2 Naphthalene-d8	136	7.511	7.522	-0.011	100	503758	8.00	
* 3 Acenaphthene-d10	164	9.146	9.167	-0.021	92	319096	8.00	
* 4 Phenanthrene-d10	188	10.535	10.551	-0.016	97	563482	8.00	
* 5 Chrysene-d12	240	14.119	14.151	-0.032	97	617772	8.00	
* 6 Perylene-d12	264	17.084	17.127	-0.043	98	610653	8.00	
$ 7 2-Fluorophenol	112	4.899	4.883	0.016	92	336530	17.5	
$ 8 Phenol-d5	99	5.924	5.924	0.000	97	474670	18.9	
$ 9 Nitrobenzene-d5	82	6.822	6.827	-0.005	90	470505	19.2	
$ 10 2-Fluorobiphenyl	172	8.505	8.521	-0.016	99	1103184	19.8	
$ 11 2,4,6-Tribromophenol	330	9.878	9.894	-0.016	93	178214	22.8	
$ 12 Terphenyl-d14	244	12.340	12.362	-0.022	99	1619343	27.6	
13 1,4-Dioxane	88	1.501	1.448	0.053	88	94868	14.3	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

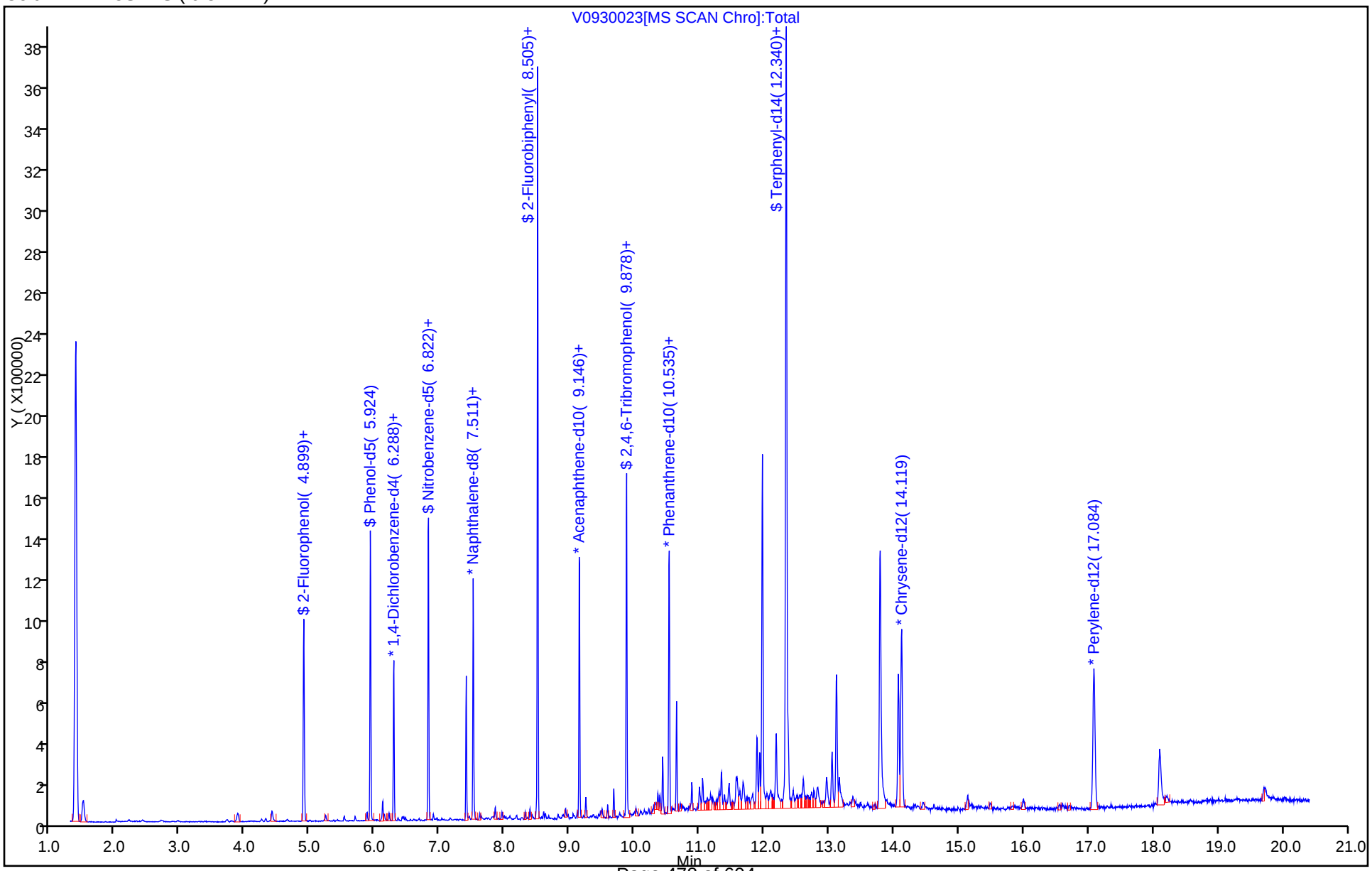
Report Date: 01-Oct-2015 04:57:28 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930023.D

Injection Date:	30-Sep-2015 15:42:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	180-47935-A-3-A	Lab Sample ID:	180-47935-3	Worklist Smp#:	23
Client ID:	HD-MW-132-0/1-0				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

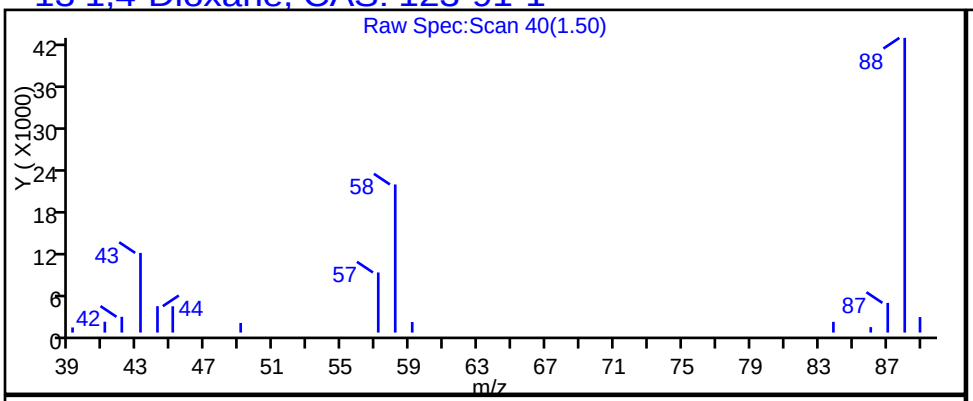


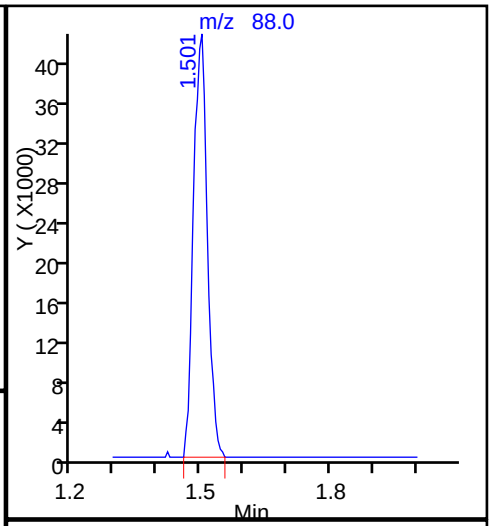
Report Date: 01-Oct-2015 04:57:28 Chrom Revision: 2.2 08-Sep-2015 13:41:46

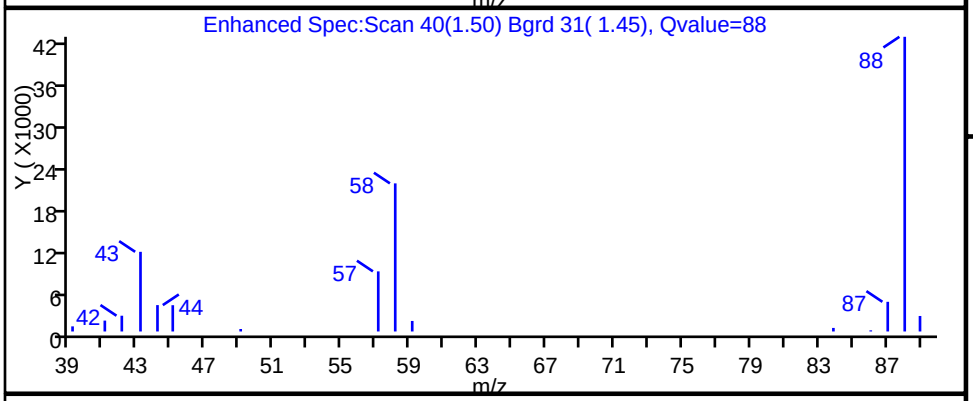
TestAmerica Pittsburgh

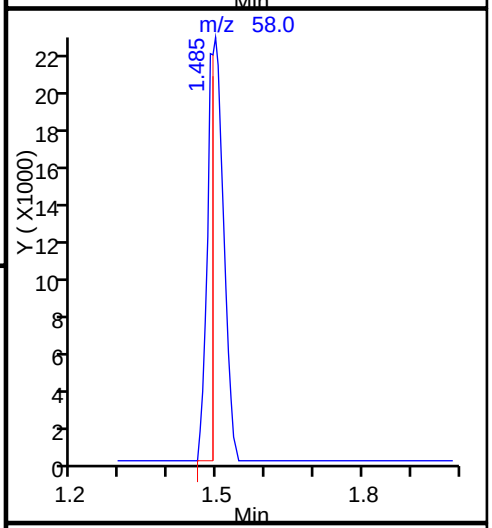
Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930023.D				
Injection Date:	30-Sep-2015 15:42:30	Instrument ID:	CH731		
Lims ID:	180-47935-A-3-A	Lab Sample ID:	180-47935-3		
Client ID:	HD-MW-132-0/1-0				
Operator ID:	003200	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

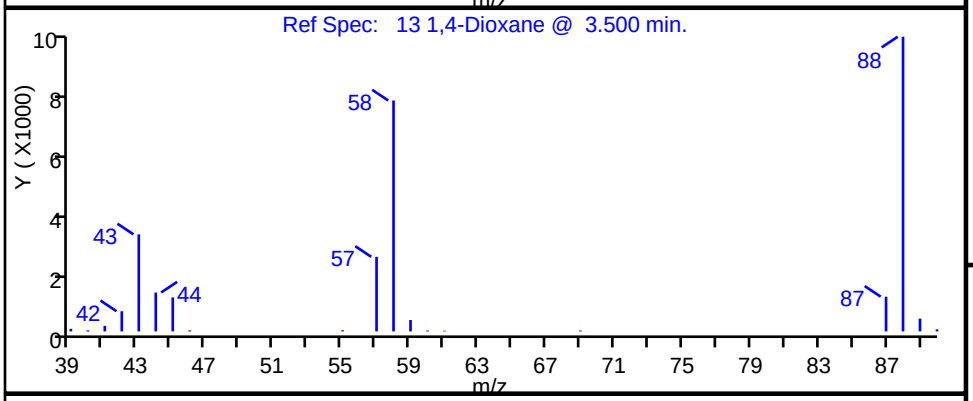
13 1,4-Dioxane, CAS: 123-91-1

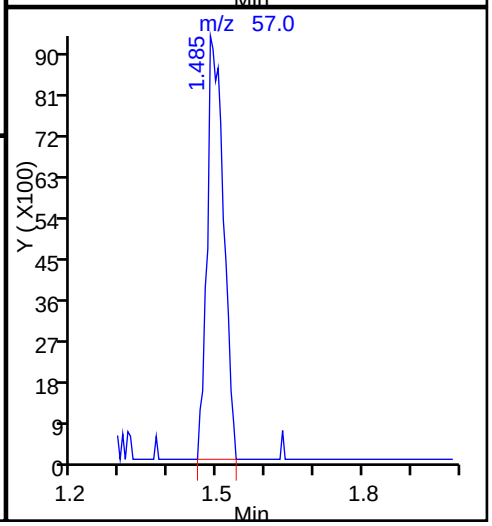


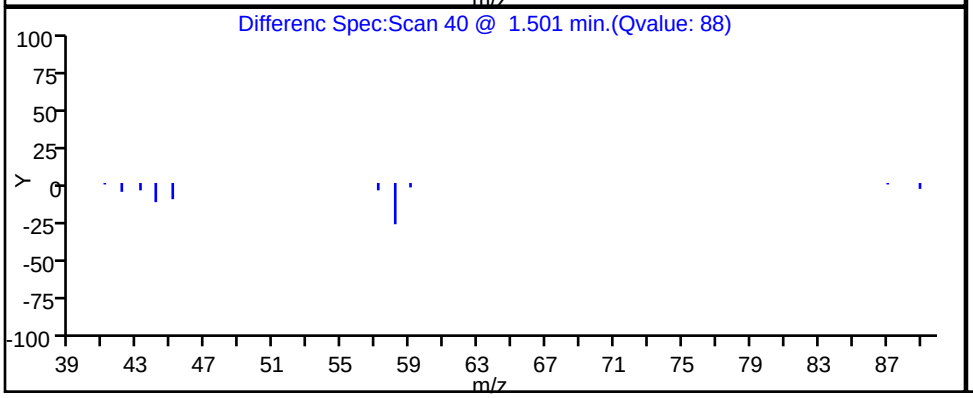












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: HD-MW-134-0/1-0 | Lab Sample ID: 180-47935-4

Matrix: Water | Lab File ID: V0930024.D

Analysis Method: 8270D LL | Date Collected: 09/18/2015 13:32

Extract. Method: 3520C | Date Extracted: 09/25/2015 09:58

Sample wt/vol: 270(mL) | Date Analyzed: 09/30/2015 16:10

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 155320 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	6.2		1.9	0.049

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	64		28-109
367-12-4	2-Fluorophenol (Surr)	52		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	68		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	60		27-114
4165-62-2	Phenol-d5 (Surr)	58		25-105
1718-51-0	Terphenyl-d14 (Surr)	75		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930024.D
Lims ID: 180-47935-A-4-A Lab Sample ID: 180-47935-4
Client ID: HD-MW-134-0/1-0
Sample Type: Client
Inject. Date: 30-Sep-2015 16:10:30 ALS Bottle#: 23 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008750-024
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Oct-2015 04:56:37 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: piccolinov Date: 01-Oct-2015 04:54:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.285	6.288	-0.003	96	124169	8.00	
* 2 Naphthalene-d8	136	7.508	7.522	-0.014	99	473242	8.00	
* 3 Acenaphthene-d10	164	9.143	9.167	-0.024	92	291100	8.00	
* 4 Phenanthrene-d10	188	10.526	10.551	-0.025	97	544509	8.00	
* 5 Chrysene-d12	240	14.106	14.151	-0.045	97	605533	8.00	
* 6 Perylene-d12	264	17.070	17.127	-0.057	98	599590	8.00	
$ 7 2-Fluorophenol	112	4.896	4.883	0.013	93	383327	21.0	
$ 8 Phenol-d5	99	5.921	5.924	-0.003	96	554986	23.3	
$ 9 Nitrobenzene-d5	82	6.814	6.827	-0.013	90	551901	24.0	
$ 10 2-Fluorobiphenyl	172	8.502	8.521	-0.019	100	1297530	25.5	
$ 11 2,4,6-Tribromophenol	330	9.869	9.894	-0.025	92	206625	27.4	
$ 12 Terphenyl-d14	244	12.332	12.362	-0.030	99	1721440	29.9	
13 1,4-Dioxane	88	1.493	1.448	0.045	91	84597	13.4	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

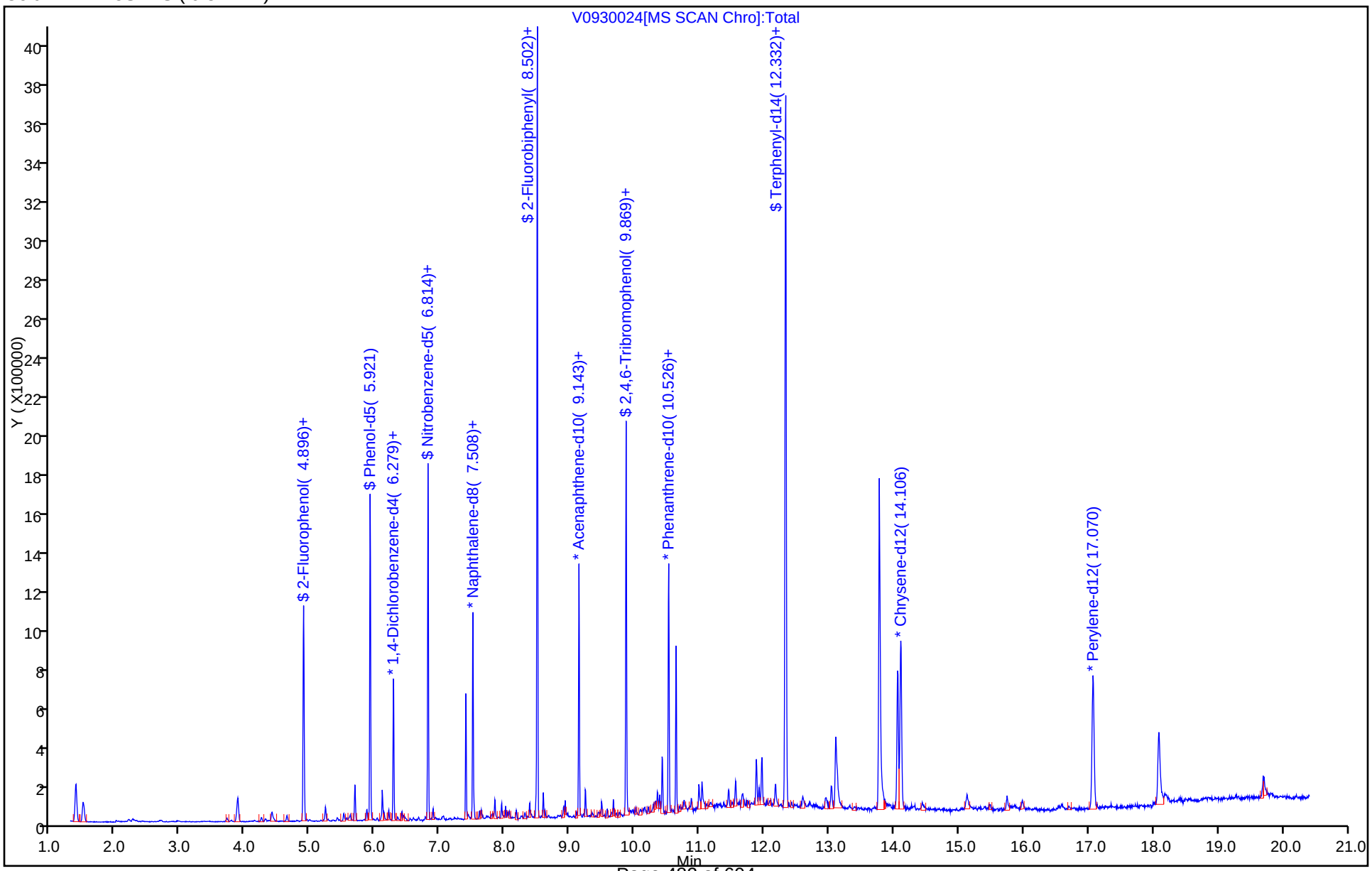
Report Date: 01-Oct-2015 04:57:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930024.D

Injection Date:	30-Sep-2015 16:10:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	180-47935-A-4-A	Lab Sample ID:	180-47935-4	Worklist Smp#:	24
Client ID:	HD-MW-134-0/1-0				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

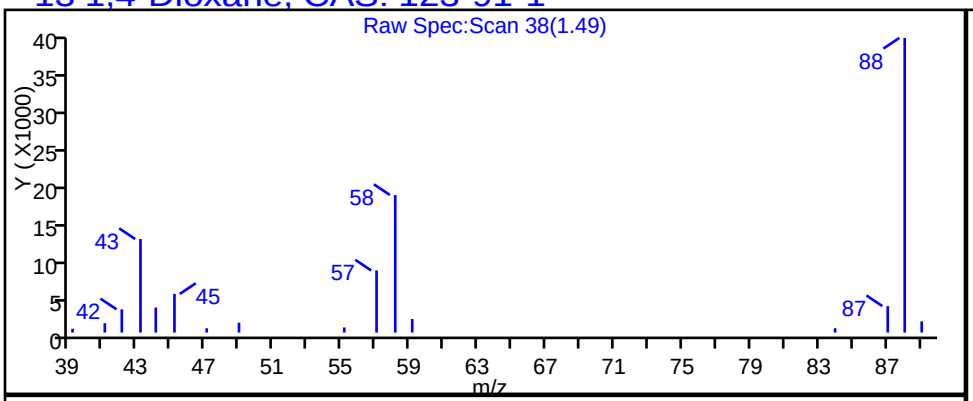


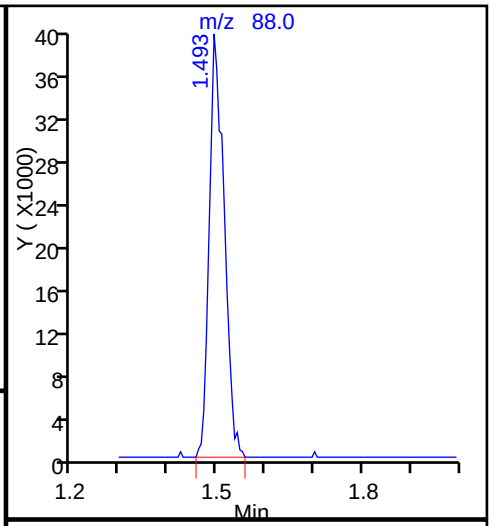
Report Date: 01-Oct-2015 04:57:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

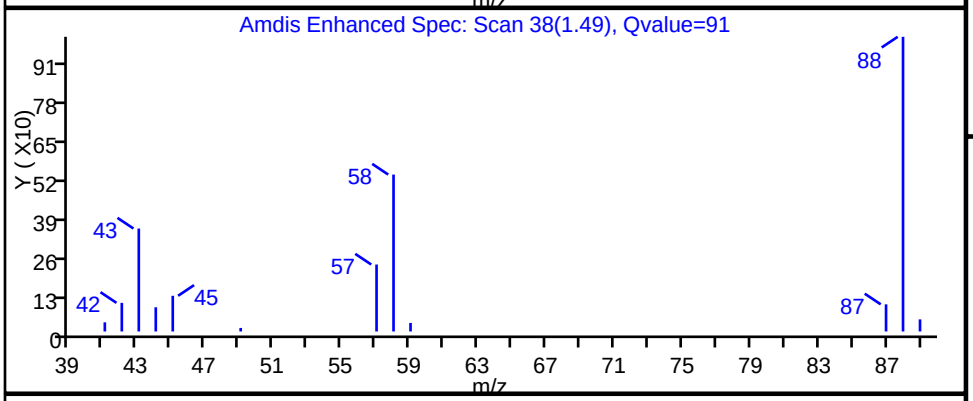
TestAmerica Pittsburgh

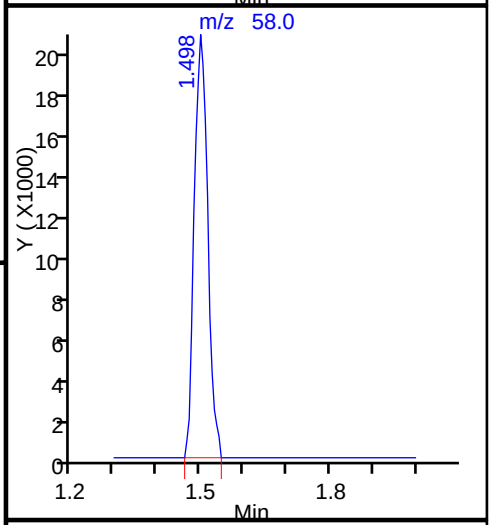
Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930024.D				
Injection Date:	30-Sep-2015 16:10:30	Instrument ID:	CH731		
Lims ID:	180-47935-A-4-A	Lab Sample ID:	180-47935-4		
Client ID:	HD-MW-134-0/1-0				
Operator ID:	003200	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

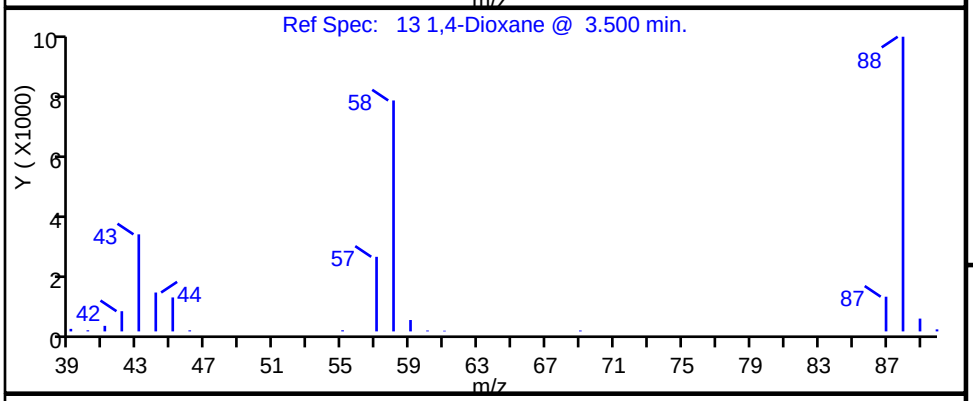
13 1,4-Dioxane, CAS: 123-91-1

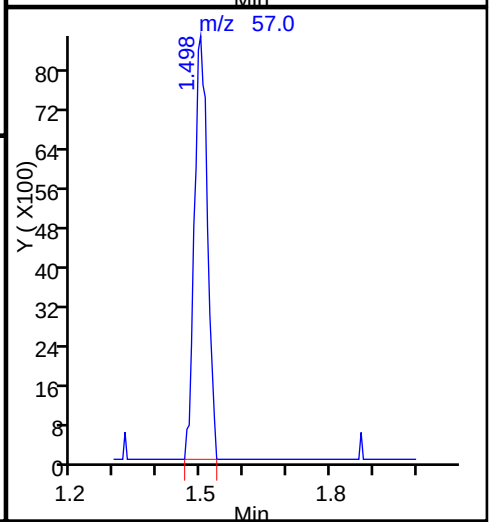


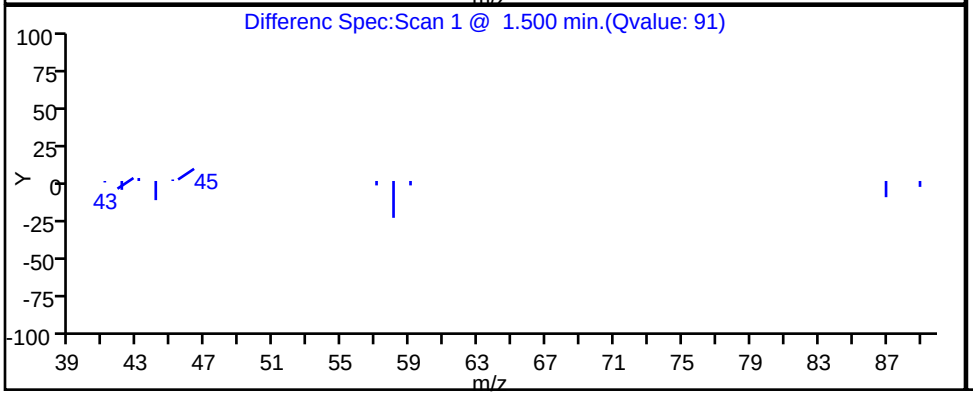












FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-152241/3	V0901003.D
Level 2	IC 180-152241/4	V0901004.D
Level 3	IC 180-152241/5	V0901005.D
Level 4	ICIS 180-152241/6	V0901006.D
Level 5	IC 180-152241/7	V0901007.D
Level 6	IC 180-152241/8	V0901008.D
Level 7	IC 180-152241/9	V0901009.D
Level 8	IC 180-152241/10	V0901010.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	0.4441 0.3874	0.4103 0.3736	0.4322 0.3619	0.4341	0.4042	Ave		0.4059			0.0100	7.4		20.0			
N-Nitrosodimethylamine	0.4416 0.5304	0.5038 0.5080	0.5354 0.4938	0.5555	0.5565	Ave		0.5156			0.0100	7.3		20.0			
Pyridine	0.7823 0.9872	0.9768 0.9522	1.0624 0.9098	1.0393	1.0097	Ave		0.9650			0.0100	9.1		20.0			
Methyl methanesulfonate	0.6579 0.6602	0.6713 0.6349	0.7053 0.6125	0.7390	0.6901	Ave		0.6714			0.0100	6.0		20.0			
Benzaldehyde	0.8726 0.7638	0.8392 0.7323	0.8430 0.7015	0.8384	0.7940	Ave		0.7981			0.0100	7.6		20.0			
Phenol	1.7514 1.6077	1.7539 1.5404	1.8219 1.4618	1.8017	1.6952	Ave		1.6792			0.8000	7.7		20.0			
Aniline	1.8895 1.8491	1.9457 1.7710	1.9934 1.6943	2.0563	1.9512	Ave		1.8938			0.0100	6.3		20.0			
Bis(2-chloroethyl)ether	1.1720 1.1364	1.1751 1.0883	1.2743 1.0419	1.2341	1.1685	Ave		1.1613			0.7000	6.4		20.0			
2-Chlorophenol	1.4473 1.4131	1.3955 1.3360	1.5303 1.3059	1.5104	1.4395	Ave		1.4222			0.8000	5.5		20.0			
n-Decane	1.4081 1.3056	1.3570 1.2489	1.5049 1.1893	1.4477	1.3992	Ave		1.3576				7.7		20.0			
1,3-Dichlorobenzene	1.7278 1.6024	1.5915 1.5632	1.7184 1.5147	1.7074	1.6413	Ave		1.6333			0.0100	4.8		20.0			
1,4-Dichlorobenzene	1.6666 1.6429	1.7104 1.6057	1.7639 1.5625	1.7729	1.6609	Ave		1.6732			0.0100	4.4		20.0			
Benzyl alcohol	0.8304 0.8421	0.8396 0.8171	0.9252 0.7863	0.9081	0.8672	Ave		0.8520			0.0100	5.4		20.0			
1,2-Dichlorobenzene	1.6286 1.5823	1.5840 1.5087	1.7134 1.4839	1.6984	1.6035	Ave		1.6004			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 SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

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	1.2179 1.1972	1.3115 1.1425	1.3595 1.0895	1.3263	1.2529	Ave		1.2372			0.7000	7.6		20.0			
Indene	2.5089 2.3365	2.3830 2.2463	2.5496 2.1711	2.5450	2.4289	Ave		2.3962			0.0100	5.8		20.0			
2,2'-oxybis[1-chloropropane]	1.8377 1.5879	1.8001 1.5289	1.8343 1.4497	1.8567	1.7179	Ave		1.7016			0.0100	9.3		20.0			
N-Nitrosopyrrolidine	0.6535 0.5501	0.5406 0.5356	0.5590 0.5246	0.5890	0.5657	Ave		0.5648			0.0100	7.3		20.0			
Acetophenone	2.0757 1.7446	1.9699 1.6761	2.0876 1.5866	2.0251	1.8603	Ave		1.8782			0.0100	10.2		20.0			
N-Nitrosodi-n-propylamine	0.9562 0.8487	0.9832 0.8020	1.0103 0.7534	0.9879	0.9281	Ave		0.9087			0.5000	10.5		20.0			
Methylphenol, 3 & 4	1.4675 1.2377	1.3160 1.1683	1.3940 1.1242	1.4135	1.3087	Ave		1.3037			0.6000	9.3		20.0			
Hexachloroethane	0.7578 0.7167	0.7372 0.6940	0.7482 0.6768	0.7584	0.7450	Ave		0.7293			0.3000	4.2		20.0			
Nitrobenzene	0.3854 0.3623	0.4008 0.3499	0.4127 0.3409	0.3986	0.3923	Ave		0.3804			0.2000	6.9		20.0			
Isophorone	0.6276 0.5956	0.6530 0.5835	0.6582 0.5712	0.6464	0.6568	Ave		0.6240			0.4000	5.7		20.0			
2-Nitrophenol	0.1589 0.1959	0.2026 0.1915	0.1923 0.1890	0.2008	0.2025	Ave		0.1917			0.1000	7.4		20.0			
2,4-Dimethylphenol	0.3838 0.3512	0.3833 0.3418	0.3982 0.3325	0.3944	0.3877	Ave		0.3716			0.2000	6.9		20.0			
Benzoic acid	+++++ 0.1752	+++++ 0.1950	0.0736 0.1783	0.1047	0.1585	Lin1	-0.579	0.1914			0.0100				0.9950		0.9900
Bis(2-chloroethoxy)methane	0.4014 0.3592	0.3823 0.3494	0.3900 0.3436	0.3928	0.3931	Ave		0.3765			0.3000	5.9		20.0			
2,4-Dichlorophenol	0.2955 0.3112	0.3229 0.3099	0.3366 0.3072	0.3310	0.3336	Ave		0.3185			0.2000	4.6		20.0			
1,2,4-Trichlorobenzene	0.4065 0.3704	0.3860 0.3639	0.4065 0.3588	0.3908	0.3873	Ave		0.3838			0.0100	4.7		20.0			
Naphthalene	1.1634 1.0343	1.1272 1.0183	1.1301 1.0010	1.1248	1.1161	Ave		1.0894			0.7000	5.6		20.0			
4-Chloroaniline	0.4399 0.4316	0.4512 0.4348	0.4667 0.4274	0.4762	0.4682	Ave		0.4495			0.0100	4.2		20.0			
2,6-Dichlorophenol	0.3103 0.3101	0.3312 0.3041	0.3311 0.3005	0.3366	0.3301	Ave		0.3193			0.0100	4.5		20.0			
Hexachlorobutadiene	0.2350 0.2327	0.2479 0.2381	0.2594 0.2357	0.2559	0.2580	Ave		0.2453			0.0100	4.6		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.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

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	0.1034 0.0914	0.0914 0.0988	0.0899 0.0987	0.0951	0.0981	Ave		0.0958			0.0100	4.9		20.0			
4-Chloro-3-methylphenol	0.3029 0.3022	0.3278 0.3075	0.3276 0.3015	0.3294	0.3316	Ave		0.3163			0.2000	4.4		20.0			
2-Methylnaphthalene	0.7982 0.7423	0.8127 0.7328	0.8169 0.7191	0.7932	0.7864	Ave		0.7752			0.4000	4.9		20.0			
1-Methylnaphthalene	0.7129 0.6461	0.7093 0.6444	0.7284 0.6345	0.6860	0.6856	Ave		0.6809			0.0100	5.2		20.0			
Hexachlorocyclopentadiene	0.3465 0.4544	0.4122 0.4460	0.4334 0.4387	0.4560	0.4568	Ave		0.4305			0.0500	8.6		20.0			
1,2,4,5-Tetrachlorobenzene	0.6706 0.6138	0.6663 0.5919	0.6720 0.5747	0.6604	0.6370	Ave		0.6358			0.0100	6.0		20.0			
2,4,6-Trichlorophenol	0.3754 0.3958	0.3861 0.3865	0.4149 0.3906	0.4122	0.4033	Ave		0.3956			0.2000	3.5		20.0			
2,4,5-Trichlorophenol	0.3667 0.4154	0.4088 0.4133	0.4266 0.4099	0.4342	0.4444	Ave		0.4149			0.2000	5.6		20.0			
1,1'-Biphenyl	1.6038 1.4963	1.5568 1.4399	1.6378 1.4274	1.6230	1.5703	Ave		1.5444			0.0100	5.3		20.0			
2-Chloronaphthalene	1.2873 1.1611	1.2521 1.1302	1.3017 1.0964	1.2551	1.2202	Ave		1.2130			0.8000	6.2		20.0			
2-Nitroaniline	0.3021 0.3455	0.3369 0.3402	0.3591 0.3313	0.3697	0.3586	Ave		0.3429			0.0100	6.1		20.0			
Dimethyl phthalate	1.3607 1.2496	1.2693 1.2446	1.3540 1.2342	1.3226	1.3141	Ave		1.2937			0.0100	3.9		20.0			
1,3-Dinitrobenzene	+++++ 0.2121	0.1703 0.2184	0.1978 0.2177	0.2068	0.2178	Ave		0.2058			0.0100	8.4		20.0			
2,6-Dinitrotoluene	0.2544 0.2962	0.2785 0.2981	0.3090 0.2995	0.3062	0.3088	Ave		0.2938			0.2000	6.4		20.0			
Acenaphthylene	1.9221 1.8056	1.9107 1.7601	1.9154 1.7332	1.9435	1.9115	Ave		1.8628			0.9000	4.4		20.0			
3-Nitroaniline	0.2596 0.3148	0.2987 0.3253	0.3262 0.3213	0.3332	0.3376	Ave		0.3146			0.0100	8.0		20.0			
Acenaphthene	1.2321 1.1141	1.2206 1.0718	1.2787 1.0459	1.2611	1.2157	Ave		1.1800			0.9000	7.6		20.0			
2,4-Dinitrophenol	+++++ 0.2011	0.0914 0.2174	0.1283 0.2225	0.1680	0.1883	Lin2	-0.515	0.2090			0.0100				0.9940		0.9900
4-Nitrophenol	0.1724 0.2147	0.1987 0.2218	0.2090 0.2194	0.2198	0.2264	Ave		0.2103			0.0100	8.3		20.0			
2,4-Dinitrotoluene	0.3055 0.4096	0.3763 0.4160	0.3916 0.4200	0.4145	0.4235	Ave		0.3946			0.2000	10.0		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.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

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	1.7928 1.6843	1.8049 1.6681	1.8515 1.6273	1.8266	1.8030	Ave		1.7573			0.8000	4.8		20.0			
2,3,5,6-Tetrachlorophenol	0.2947 0.3986	0.3569 0.4044	0.3773 0.4115	0.3838	0.4065	Ave		0.3792			0.0100	10.2		20.0			
2,3,4,6-Tetrachlorophenol	0.3388 0.3973	0.3667 0.4036	0.3850 0.4000	0.4018	0.4111	Ave		0.3880			0.0100	6.2		20.0			
2-Naphthylamine	1.1676 1.1381	1.2415 1.1505	1.2361 1.1228	1.2669	1.2522	Ave		1.1970			0.0100	4.8		20.0			
Diethyl phthalate	1.5099 1.2723	1.3987 1.2540	1.3938 1.2345	1.3922	1.3765	Ave		1.3540			0.0100	6.9		20.0			
Hexadecane	0.5394 0.4798	0.5762 0.4585	0.5773 0.4309	0.5738	0.5606	Ave		0.5246				11.3		20.0			
4-Chlorophenyl phenyl ether	0.7554 0.7149	0.7027 0.7070	0.7303 0.7034	0.7533	0.7428	Ave		0.7262			0.4000	3.1		20.0			
4-Nitroaniline	0.2838 0.3335	0.3260 0.3393	0.3359 0.3408	0.3489	0.3530	Ave		0.3326			0.0100	6.5		20.0			
Fluorene	1.4219 1.3705	1.4989 1.3566	1.5164 1.3410	1.5171	1.4935	Ave		1.4395			0.9000	5.3		20.0			
4,6-Dinitro-2-methylphenol	0.1054 0.1514	0.1244 0.1531	0.1162 0.1544	0.1382	0.1480	Ave		0.1364			0.0100	13.8		20.0			
N-Nitrosodiphenylamine	0.5870 0.5344	0.5842 0.5108	0.5791 0.5023	0.5781	0.5664	Ave		0.5553			0.0100	6.2		20.0			
1,2-Diphenylhydrazine(as Azobenzene)	0.7624 0.7195	0.8134 0.6675	0.8043 0.6433	0.8113	0.7819	Ave		0.7505			0.0100	8.9		20.0			
4-Bromophenyl phenyl ether	0.1964 0.2305	0.2294 0.2206	0.2319 0.2178	0.2365	0.2357	Ave		0.2248			0.1000	5.9		20.0			
Hexachlorobenzene	0.2391 0.2495	0.2325 0.2442	0.2465 0.2434	0.2472	0.2556	Ave		0.2447			0.1000	2.8		20.0			
Atrazine	0.1822 0.2249	0.2068 0.2185	0.2267 0.2150	0.2353	0.2351	Ave		0.2181			0.0100	8.0		20.0			
Pentachlorophenol	0.2103 0.1664	0.1771 0.1665	0.1387 0.1661	0.1516	0.1640	Ave		0.1676			0.0500	12.4		20.0			
n-Octadecane	2.3521 2.1757	2.4613 2.0608	2.4940 1.8822	2.5316	2.4392	Ave		2.2996				10.2		20.0			
Phenanthrene	1.2891 1.1546	1.2878 1.1187	1.2856 1.1036	1.2539	1.2534	Ave		1.2183			0.7000	6.5		20.0			
Anthracene	1.2301 1.1759	1.2487 1.1358	1.2775 1.1248	1.2766	1.2552	Ave		1.2156			0.7000	5.1		20.0			
Carbazole	1.0530 1.0541	1.0771 1.0190	1.1275 1.0014	1.1174	1.1110	Ave		1.0701			0.0100	4.3		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

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	1.1278 1.2358	1.2054 1.2132	1.2628 1.1940	1.2971	1.3049	Ave		1.2301			0.0100	4.7		20.0			
Fluoranthene	1.2846 1.3087	1.2354 1.2858	1.3319 1.2675	1.3499	1.3415	Ave		1.3007			0.6000	3.0		20.0			
Benzidine	0.4370 0.5402	0.4253 0.5568	0.4608 0.5462	0.5353	0.5425	Ave		0.5055			0.0100	10.8		20.0			
Pyrene	1.2464 1.1686	1.2921 1.1330	1.3084 1.0869	1.3295	1.2929	Ave		1.2322			0.6000	7.4		20.0			
Butyl benzyl phthalate	0.4773 0.5019	0.4757 0.4860	0.4985 0.4664	0.5293	0.5298	Ave		0.4956			0.0100	4.8		20.0			
3,3'-Dichlorobenzidine	0.4146 0.4592	0.4126 0.4499	0.4142 0.4425	0.4277	0.4656	Ave		0.4358			0.0100	4.9		20.0			
Bis(2-ethylhexyl) phthalate	0.6159 0.7086	0.6648 0.6777	0.7032 0.6456	0.7363	0.7405	Ave		0.6866			0.0100	6.4		20.0			
Benzo[a]anthracene	1.1868 1.1339	1.1898 1.1161	1.2099 1.0904	1.2140	1.1955	Ave		1.1671			0.8000	4.0		20.0			
Chrysene	1.0944 1.0853	1.1004 1.0526	1.1394 1.0249	1.1377	1.1082	Ave		1.0929			0.7000	3.6		20.0			
Di-n-octyl phthalate	1.5986 1.2457	1.3781 1.2059	1.1720 1.1722	1.2657	1.2914	Ave		1.2912			0.0100	11.0		20.0			
7,12-Dimethylbenz(a)anthracene	0.4894 0.5495	0.5316 0.5322	0.5396 0.5300	0.5719	0.5650	Ave		0.5386			0.0100	4.7		20.0			
Benzo[b]fluoranthene	1.1982 1.2459	1.2244 1.1722	1.2837 1.2129	1.2956	1.2813	Ave		1.2393			0.7000	3.6		20.0			
Benzo[k]fluoranthene	1.2019 1.2251	1.2294 1.1922	1.3048 1.1298	1.3208	1.3032	Ave		1.2384			0.7000	5.4		20.0			
Benzo[e]pyrene	1.1093 1.1622	1.1431 1.1253	1.1852 1.0963	1.2032	1.2090	Ave		1.1542			0.0100	3.7		20.0			
Benzo[a]pyrene	1.0947 1.2113	1.1764 1.1651	1.1980 1.1415	1.2304	1.2187	Ave		1.1795			0.7000	3.8		20.0			
Indeno[1,2,3-cd]pyrene	1.2251 1.3822	1.3397 1.3292	1.3494 1.3191	1.4107	1.4279	Ave		1.3479			0.5000	4.7		20.0			
Dibenz(a,h)anthracene	1.0181 1.1823	1.1211 1.1487	1.1369 1.1357	1.1749	1.2120	Ave		1.1412			0.4000	5.1		20.0			
Benzo[g,h,i]perylene	1.1389 1.1809	1.1421 1.1626	1.1885 1.1557	1.1999	1.2203	Ave		1.1736			0.5000	2.5		20.0			
2-Fluorophenol (Surr)	1.2489 1.1564	1.2030 1.1208	1.1963 1.0862	1.2288	1.1838	Ave		1.1780				4.6		20.0			
Phenol-d5 (Surr)	1.5979 1.4953	1.5500 1.4311	1.6299 1.3716	1.6576	1.5700	Ave		1.5379				6.4		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.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

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)	0.3878 0.3705	0.4020 0.3655	0.4168 0.3615	0.4084	0.4009	Ave		0.3892				5.4		20.0			
2-Fluorobiphenyl	1.4732 1.3539	1.4246 1.3137	1.4562 1.2890	1.4552	1.4151	Ave		1.3976				5.0		20.0			
2,4,6-Tribromophenol (Surr)	0.1022 0.1198	0.0949 0.1219	0.1021 0.1183	0.1085	0.1193	Ave		0.1109			0.0100	9.3		20.0			
Terphenyl-d14 (Surr)	0.7142 0.7564	0.7747 0.7352	0.7862 0.7093	0.7962	0.8057	Ave		0.7597				4.9		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-152241/3	V0901003.D
Level 2	IC 180-152241/4	V0901004.D
Level 3	IC 180-152241/5	V0901005.D
Level 4	ICIS 180-152241/6	V0901006.D
Level 5	IC 180-152241/7	V0901007.D
Level 6	IC 180-152241/8	V0901008.D
Level 7	IC 180-152241/9	V0901009.D
Level 8	IC 180-152241/10	V0901010.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	2513 201364	11101 279408	22493 356294	55565	105203	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodimethylamine	DCB	Ave	2499 275725	13632 379885	27865 486190	71109	144862	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pyridine	DCB	Ave	4427 513191	26429 712099	55292 895807	133039	262838	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methyl methanesulfonate	DCB	Ave	3723 343206	18162 474822	36708 603096	94603	179632	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzaldehyde	DCB	Ave	4938 397070	22705 547639	43874 690724	107323	206688	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol	DCB	Ave	9911 835757	47455 1151982	94817 1439322	230637	441274	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Aniline	DCB	Ave	10692 961258	52643 1324460	103745 1668289	263241	507890	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethyl)ether	DCB	Ave	6632 590760	31795 813920	66318 1025923	157984	304156	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chlorophenol	DCB	Ave	8190 734589	37759 999145	79641 1285834	193353	374694	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
n-Decane	DCB	Ave	7968 678691	36716 933974	78321 1170998	185321	364217	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	9777 833025	43060 1169034	89430 1491482	218573	427222	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	9431 854038	46277 1200818	91801 1538522	226954	432346	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzyl alcohol	DCB	Ave	4699 437762	22716 611039	48151 774191	116255	225733	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	9216 822563	42858 1128307	89174 1461140	217421	417384	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Methylphenol	DCB	Ave	6892 622346	35486 854410	70753 1072808	169780	326132	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.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

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	14197 1214617	64475 1679927	132693 2137786	325789	632252	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	10399 825469	48704 1143395	95463 1427446	237680	447186	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosopyrrolidine	DCB	Ave	3698 285945	14628 400584	29094 516581	75398	147255	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acetophenone	DCB	Ave	11746 906914	53299 1253461	108645 1562211	259244	484244	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodi-n-propylamine	DCB	Ave	5411 441214	26603 599779	52581 741815	126465	241584	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methylphenol, 3 & 4	DCB	Ave	8304 643394	35608 873748	72549 1106901	180950	340648	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachloroethane	DCB	Ave	4288 372580	19947 519024	38937 666391	97090	193936	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene	NPT	Ave	9006 776952	43310 1066255	87150 1349192	211409	407395	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Isophorone	NPT	Ave	14666 1277258	70568 1778003	138999 2260645	342824	682023	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitrophenol	NPT	Ave	3712 420234	21894 583637	40619 748083	106487	210297	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dimethylphenol	NPT	Ave	8968 753151	41418 1041480	84102 1315779	209203	402567	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzoic acid	NPT	Lin1	+++++ 375654	+++++ 594277	15551 705621	55532	164640	+++++ 40.0	+++++ 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethoxy)methane	NPT	Ave	9380 770276	41308 1064713	82356 1360002	208359	408194	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dichlorophenol	NPT	Ave	6905 667300	34899 944141	71088 1215699	175582	346426	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4-Trichlorobenzene	NPT	Ave	9499 794260	41709 1108717	85855 1419941	207252	402160	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Naphthalene	NPT	Ave	27184 2218172	121813 3102774	238651 3961496	596566	1159009	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloroaniline	NPT	Ave	10278 925530	48762 1324788	98566 1691471	252553	486250	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dichlorophenol	NPT	Ave	7251 665137	35789 926626	69925 1189347	178546	342783	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobutadiene	NPT	Ave	5492 498986	26793 725569	54777 932690	135720	267889	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Caprolactam	NPT	Ave	2415 195994	9876 300973	18977 390460	50427	101850	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloro-3-methylphenol	NPT	Ave	7078 648108	35420 936942	69183 1193205	174727	344404	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.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

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	18652 1592038	87821 2232756	172507 2845722	420716	816700	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1-Methylnaphthalene	NPT	Ave	16658 1385626	76649 1963496	153822 2510891	363823	711948	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorocyclopentadiene	ANT	Ave	4913 608183	28210 886261	56673 1135006	149399	302691	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	9508 821465	45600 1176134	87870 1486780	216369	422134	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Trichlorophenol	ANT	Ave	5323 529802	26423 767943	54244 1010572	135055	267261	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,5-Trichlorophenol	ANT	Ave	5199 556002	27979 821214	55772 1060563	142254	294500	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,1'-Biphenyl	ANT	Ave	22740 2002667	106547 2860874	214141 3692898	531753	1040543	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chloronaphthalene	ANT	Ave	18252 1554017	85690 2245596	170202 2836533	411214	808559	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitroaniline	ANT	Ave	4283 462376	23054 675895	46947 856991	121138	237605	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dimethyl phthalate	ANT	Ave	19292 1672530	86872 2472869	177042 3193164	433347	870830	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dinitrobenzene	ANT	Ave	+++++ 283925	11653 433868	25857 563184	67750	144305	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dinitrotoluene	ANT	Ave	3607 396407	19061 592384	40402 774781	100319	204627	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthylene	ANT	Ave	27253 2416661	130763 3497114	250435 4484129	636764	1266666	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3-Nitroaniline	ANT	Ave	3681 421304	20444 646266	42653 831142	109177	223742	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthene	ANT	Ave	17469 1491106	83539 2129611	167192 2705975	413191	805607	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dinitrophenol	ANT	Lin2	+++++ 538395	12511 863873	33546 1151263	110082	249612	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
4-Nitrophenol	ANT	Ave	4889 574831	27200 881491	54652 1135055	144007	300056	0.800 80.0	4.00 120	8.00 160	20.0	40.0
2,4-Dinitrotoluene	ANT	Ave	4331 548279	25755 826591	51206 1086532	135793	280619	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenzofuran	ANT	Ave	25419 2254271	123527 3314307	242079 4210142	598462	1194756	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,5,6-Tetrachlorophenol	ANT	Ave	4178 533477	24428 803463	49331 1064721	125764	269363	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	4803 531770	25094 801901	50343 1034946	131643	272412	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.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

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	16555 1523242	84965 2285872	161622 2904871	415085	829799	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Diethyl phthalate	ANT	Ave	21408 1702838	95724 2491639	182244 3193948	456132	912137	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexadecane	NPT	Ave	12604 1028978	62263 1397088	121910 1705323	304348	582121	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chlorophenyl phenyl ether	ANT	Ave	10711 956781	48092 1404700	95483 1819749	246798	492206	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Nitroaniline	ANT	Ave	4024 446405	22310 674066	43917 881666	114302	233917	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluorene	ANT	Ave	20161 1834343	102583 2695516	198272 3469462	497068	989672	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4,6-Dinitro-2-methylphenol	PHN	Ave	5441 755388	30508 1188730	55789 1577783	165565	365342	0.800 80.0	4.00 120	8.00 160	20.0	40.0
N-Nitrosodiphenylamine	PHN	Ave	30291 2666058	143210 3965267	278021 5134418	692525	1398657	0.800 80.0	4.00 120	8.00 160	20.0	40.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	19671 1794860	99702 2591039	193083 3287555	485927	965418	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Bromophenyl phenyl ether	PHN	Ave	5068 574987	28113 856180	55667 1113159	141647	291000	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobenzene	PHN	Ave	6169 622415	28493 947897	59184 1244142	148037	315515	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Atrazine	PHN	Ave	4701 561004	25353 848278	54428 1098657	140905	290220	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pentachlorophenol	PHN	Ave	10851 829971	43404 1292579	66577 1697903	181579	404974	0.800 80.0	4.00 120	8.00 160	20.0	40.0
n-Octadecane	DCB	Ave	13310 1131057	66596 1541202	129797 1853282	324076	634923	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenanthrene	PHN	Ave	33259 2880228	157847 4342458	308622 5640236	751020	1547520	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Anthracene	PHN	Ave	31738 2933520	153060 4408878	306661 5748524	764639	1549689	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Carbazole	PHN	Ave	27168 2629503	132022 3955502	270667 5117901	669248	1371651	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-butyl phthalate	PHN	Ave	29099 3082799	147747 4709352	303130 6102278	776911	1611079	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluoranthene	PHN	Ave	33144 3264797	151430 4990877	319725 6477904	808503	1656336	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzidine	CRY	Ave	11290 1562314	52731 2535078	118831 3407934	339390	725455	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pyrene	CRY	Ave	32201 3379936	160209 5158428	337422 6781286	842830	1728923	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.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

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	12332 1451542	58980 2212652	128551 2909727	335533	708523	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3,3'-Dichlorobenzidine	CRY	Ave	10712 1328092	51162 2048467	106814 2760473	271127	622565	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	15912 2049564	82430 3085719	181356 4027626	466768	990284	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]anthracene	CRY	Ave	30661 3279613	147520 5081417	312044 6802828	769643	1598686	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Chrysene	CRY	Ave	28274 3138949	136440 4792327	293847 6394304	721253	1481921	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-octyl phthalate	PRY	Ave	38875 3629195	161544 5602751	278022 7419754	761128	1669687	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
7,12-Dimethylbenz(a)anthracene	PRY	Ave	11900 1601028	62316 2472560	127997 3354970	343910	730487	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	29136 3629886	143518 5446463	304513 7677405	779148	1656570	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	29227 3569072	144106 5539285	309524 7151269	794316	1684888	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[e]pyrene	PRY	Ave	26976 3386071	133992 5228496	281151 6938914	723563	1563201	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]pyrene	PRY	Ave	26620 3529029	137893 5413285	284194 7225435	739933	1575640	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	29792 4026833	157033 6175786	320102 8349705	848365	1846211	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	24757 3444565	131409 5337190	269706 7188461	706557	1567050	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	27696 3440452	133873 5401597	281951 7315071	721609	1577795	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorophenol (Surr)	DCB	Ave	7067 601129	32550 838231	62258 1069551	157305	308134	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol-d5 (Surr)	DCB	Ave	9042 777332	41939 1070228	84827 1350534	212190	408662	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene-d5 (Surr)	NPT	Ave	9061 794610	43441 1113656	88028 1430717	216601	416340	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorobiphenyl	ANT	Ave	20887 1812070	97501 2610251	190403 3334934	476787	937705	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	2636 298800	11634 473316	24511 604617	64980	147244	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Terphenyl-d14 (Surr)	CRY	Ave	18450 2187918	96061 3347581	202747 4425141	504747	1077468	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.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

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.: 180-47935-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-152241/3	V0901003.D
Level 2	IC 180-152241/4	V0901004.D
Level 3	IC 180-152241/5	V0901005.D
Level 4	ICIS 180-152241/6	V0901006.D
Level 5	IC 180-152241/7	V0901007.D
Level 6	IC 180-152241/8	V0901008.D
Level 7	IC 180-152241/9	V0901009.D
Level 8	IC 180-152241/10	V0901010.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	+++++ 6.9	+++++ -3.1	14.1	-15.0	-2.0	-0.9	40	40	40	40	40	40
2,4-Dinitrophenol	+++++ 6.1	5.4 8.0	-7.8	-7.3	-3.7	-0.7	40	40 40	40	40	40	40

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Aug-2015 13:40:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-003
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:25 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:09:03

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	6.256	6.256	0.000	94	113175	8.00	8.00	
* 2 Naphthalene-d8	136	7.490	7.490	0.000	100	467332	8.00	8.00	
* 3 Acenaphthene-d10	164	9.130	9.130	0.000	93	283569	8.00	8.00	
* 4 Phenanthrene-d10	188	10.509	10.509	0.000	98	516017	8.00	8.00	
* 5 Chrysene-d12	240	14.072	14.072	0.000	97	516686	8.00	8.00	
* 6 Perylene-d12	264	17.031	17.031	0.000	97	486349	8.00	8.00	
$ 7 2-Fluorophenol	112	4.851	4.851	0.000	88	7067	0.4000	0.4241	
$ 8 Phenol-d5	99	5.893	5.893	0.000	94	9042	0.4000	0.4156	
$ 9 Nitrobenzene-d5	82	6.796	6.796	0.000	90	9061	0.4000	0.3986	
$ 10 2-Fluorobiphenyl	172	8.489	8.489	0.000	99	20887	0.4000	0.4216	
$ 11 2,4,6-Tribromophenol	330	9.857	9.857	0.000	85	2636	0.4000	0.3686	
$ 12 Terphenyl-d14	244	12.304	12.304	0.000	98	18450	0.4000	0.3760	
13 1,4-Dioxane	88	1.432	1.432	0.000	1	2513	0.4000	0.4376	M
14 N-Nitrosodimethylamine	74	2.084	2.084	0.000	58	2499	0.4000	0.3426	M
15 Pyridine	79	2.170	2.170	0.000	92	4427	0.4000	0.3243	M
22 Methyl methanesulfonate	80	4.600	4.600	0.000	84	3723	0.4000	0.3920	
26 Benzaldehyde	77	5.802	5.802	0.000	92	4938	0.4000	0.4374	
27 Phenol	94	5.909	5.909	0.000	97	9911	0.4000	0.4172	
28 Aniline	93	5.920	5.920	0.000	95	10692	0.4000	0.3991	
29 Bis(2-chloroethyl)ether	93	5.989	5.989	0.000	89	6632	0.4000	0.4037	
31 2-Chlorophenol	128	6.048	6.048	0.000	95	8190	0.4000	0.4071	
32 n-Decane	43	6.117	6.117	0.000	84	7968	0.4000	0.4149	
33 1,3-Dichlorobenzene	146	6.203	6.203	0.000	96	9777	0.4000	0.4231	
34 1,4-Dichlorobenzene	146	6.278	6.278	0.000	90	9431	0.4000	0.3984	
36 Benzyl alcohol	108	6.390	6.390	0.000	89	4699	0.4000	0.3899	
37 1,2-Dichlorobenzene	146	6.427	6.427	0.000	95	9216	0.4000	0.4071	
38 2-Methylphenol	108	6.502	6.502	0.000	95	6892	0.4000	0.3938	
39 Indene	116	6.513	6.513	0.000	90	14197	0.4000	0.4188	
40 2,2'-oxybis[1-chloropropan	45	6.529	6.529	0.000	91	10399	0.4000	0.4320	
41 N-Nitrosopyrrolidine	100	6.614	6.614	0.000	81	3698	0.4000	0.4628	
44 N-Nitrosodi-n-propylamine	70	6.646	6.646	0.000	70	5411	0.4000	0.4209	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.646	6.646	0.000	86	11746	0.4000	0.4421	
45 4-Methylphenol	108	6.652	6.652	0.000	88	8304	0.4000	0.4502	
47 Hexachloroethane	117	6.764	6.764	0.000	93	4288	0.4000	0.4156	
48 Nitrobenzene	77	6.812	6.812	0.000	88	9006	0.4000	0.4053	
50 Isophorone	82	7.036	7.036	0.000	97	14666	0.4000	0.4023	
51 2-Nitrophenol	139	7.122	7.122	0.000	89	3712	0.4000	0.3315	
52 2,4-Dimethylphenol	107	7.154	7.154	0.000	97	8968	0.4000	0.4131	
56 Benzoic acid	122	7.213	7.213	0.000	1	180	0.4000	3.04	M
55 Bis(2-chloroethoxy)methane	93	7.239	7.239	0.000	97	9380	0.4000	0.4265	
57 2,4-Dichlorophenol	162	7.346	7.346	0.000	93	6905	0.4000	0.3711	
59 1,2,4-Trichlorobenzene	180	7.437	7.437	0.000	90	9499	0.4000	0.4237	
60 Naphthalene	128	7.506	7.506	0.000	97	27184	0.4000	0.4272	
62 4-Chloroaniline	127	7.544	7.544	0.000	94	10278	0.4000	0.3914	
63 2,6-Dichlorophenol	162	7.560	7.560	0.000	95	7251	0.4000	0.3888	
64 Hexachlorobutadiene	225	7.629	7.629	0.000	93	5492	0.4000	0.3832	
67 Caprolactam	113	7.832	7.832	0.000	77	2415	0.4000	0.4314	
70 4-Chloro-3-methylphenol	107	7.987	7.987	0.000	94	7078	0.4000	0.3830	
72 2-Methylnaphthalene	142	8.158	8.158	0.000	92	18652	0.4000	0.4119	
75 1-Methylnaphthalene	142	8.249	8.249	0.000	92	16658	0.4000	0.4188	
76 Hexachlorocyclopentadiene	237	8.308	8.308	0.000	91	4913	0.4000	0.3220	
77 1,2,4,5-Tetrachlorobenzene	216	8.313	8.313	0.000	94	9508	0.4000	0.4219	
78 2,4,6-Trichlorophenol	196	8.409	8.409	0.000	89	5323	0.4000	0.3796	
79 2,4,5-Trichlorophenol	196	8.441	8.441	0.000	90	5199	0.4000	0.3535	
80 1,1'-Biphenyl	154	8.580	8.580	0.000	94	22740	0.4000	0.4154	
81 2-Chloronaphthalene	162	8.612	8.612	0.000	95	18252	0.4000	0.4245	
82 2-Nitroaniline	65	8.687	8.687	0.000	78	4283	0.4000	0.3524	
86 Dimethyl phthalate	163	8.842	8.842	0.000	98	19292	0.4000	0.4207	
87 1,3-Dinitrobenzene	168	8.874	8.874	0.000	80	1605	0.4000	0.2200	
88 2,6-Dinitrotoluene	165	8.901	8.901	0.000	88	3607	0.4000	0.3463	
89 Acenaphthylene	152	8.997	8.997	0.000	98	27253	0.4000	0.4128	
90 3-Nitroaniline	138	9.061	9.061	0.000	57	3681	0.4000	0.3301	
91 Acenaphthene	153	9.157	9.157	0.000	91	17469	0.4000	0.4177	
92 2,4-Dinitrophenol	184	9.168	9.168	0.000	57	2566	0.8000	2.81	
93 4-Nitrophenol	109	9.195	9.195	0.000	83	4889	0.8000	0.6559	
94 2,4-Dinitrotoluene	165	9.275	9.275	0.000	90	4331	0.4000	0.3096	
95 Dibenzofuran	168	9.317	9.317	0.000	95	25419	0.4000	0.4081	
97 2,3,5,6-Tetrachlorophenol	232	9.387	9.387	0.000	85	4178	0.4000	0.3108	
99 2,3,4,6-Tetrachlorophenol	232	9.424	9.424	0.000	72	4803	0.4000	0.3492	
100 2-Naphthylamine	143	9.451	9.451	0.000	95	16555	0.4000	0.3902	
101 Diethyl phthalate	149	9.483	9.483	0.000	97	21408	0.4000	0.4461	
102 Hexadecane	57	9.494	9.494	0.000	96	12604	0.4000	0.4113	
104 4-Chlorophenyl phenyl ethe	204	9.617	9.617	0.000	91	10711	0.4000	0.4161	
105 4-Nitroaniline	138	9.622	9.622	0.000	75	4024	0.4000	0.3413	
106 Fluorene	166	9.633	9.633	0.000	94	20161	0.4000	0.3951	
108 4,6-Dinitro-2-methylphenol	198	9.654	9.654	0.000	71	5441	0.8000	0.6185	
109 N-Nitrosodiphenylamine	169	9.718	9.718	0.000	62	30291	0.8000	0.8457	
61 Azobenzene	77	9.761	9.761	0.000	98	19671	0.4000	0.4064	
111 1,2-Diphenylhydrazine	77	9.761	9.761	0.000	98	19671	0.4000	0.4064	
116 4-Bromophenyl phenyl ether	248	10.071	10.071	0.000	67	5068	0.4000	0.3494	
118 Hexachlorobenzene	284	10.156	10.156	0.000	89	6169	0.4000	0.3908	
119 Atrazine	200	10.188	10.188	0.000	88	4701	0.4000	0.3342	
122 Pentachlorophenol	266	10.327	10.327	0.000	89	10851	0.8000	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.338	10.338	0.000	93	13310	0.4000	0.4091	
126 Phenanthrene	178	10.530	10.530	0.000	95	33259	0.4000	0.4232	
128 Anthracene	178	10.584	10.584	0.000	97	31738	0.4000	0.4048	
130 Carbazole	167	10.722	10.722	0.000	96	27168	0.4000	0.3936	
132 Di-n-butyl phthalate	149	11.027	11.027	0.000	99	29099	0.4000	0.3667	
137 Fluoranthene	202	11.839	11.839	0.000	97	33144	0.4000	0.3951	
138 Benzidine	184	11.962	11.962	0.000	0	11290	0.4000	0.3458	M
139 Pyrene	202	12.143	12.143	0.000	96	32201	0.4000	0.4046	
144 Butyl benzyl phthalate	149	13.009	13.009	0.000	96	12332	0.4000	0.3853	
149 3,3'-Dichlorobenzidine	252	13.981	13.981	0.000	71	10712	0.4000	0.3806	
151 Bis(2-ethylhexyl) phthalat	149	14.040	14.040	0.000	0	15912	0.4000	0.3588	M
152 Benzo[a]anthracene	228	14.051	14.051	0.000	98	30661	0.4000	0.4068	
153 Chrysene	228	14.120	14.120	0.000	74	28274	0.4000	0.4006	
156 Di-n-octyl phthalate	149	15.359	15.359	0.000	0	38875	0.4000	0.4952	M
157 7,12-Dimethylbenz(a)anthra	256	16.203	16.203	0.000	80	11900	0.4000	0.3634	M
158 Benzo[b]fluoranthene	252	16.225	16.225	0.000	98	29136	0.4000	0.3867	
159 Benzo[k]fluoranthene	252	16.284	16.284	0.000	97	29227	0.4000	0.3882	
176 Benzo[e]pyrene	252	16.796	16.796	0.000	0	26976	0.4000	0.3844	M
160 Benzo[a]pyrene	252	16.914	16.914	0.000	77	26620	0.4000	0.3712	
163 Indeno[1,2,3-cd]pyrene	276	19.275	19.275	0.000	97	29792	0.4000	0.3636	
164 Dibenz(a,h)anthracene	278	19.313	19.313	0.000	78	24757	0.4000	0.3568	M
165 Benzo[g,h,i]perylene	276	19.890	19.890	0.000	94	27696	0.4000	0.3882	M
S 208 Methyl Phenols,Total	108				0		0.8000	0.8440	
S 206 Total Cresols	108				0		0.8000	0.8440	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD0.4i_00009 Amount Added: 1.00 Units: mL

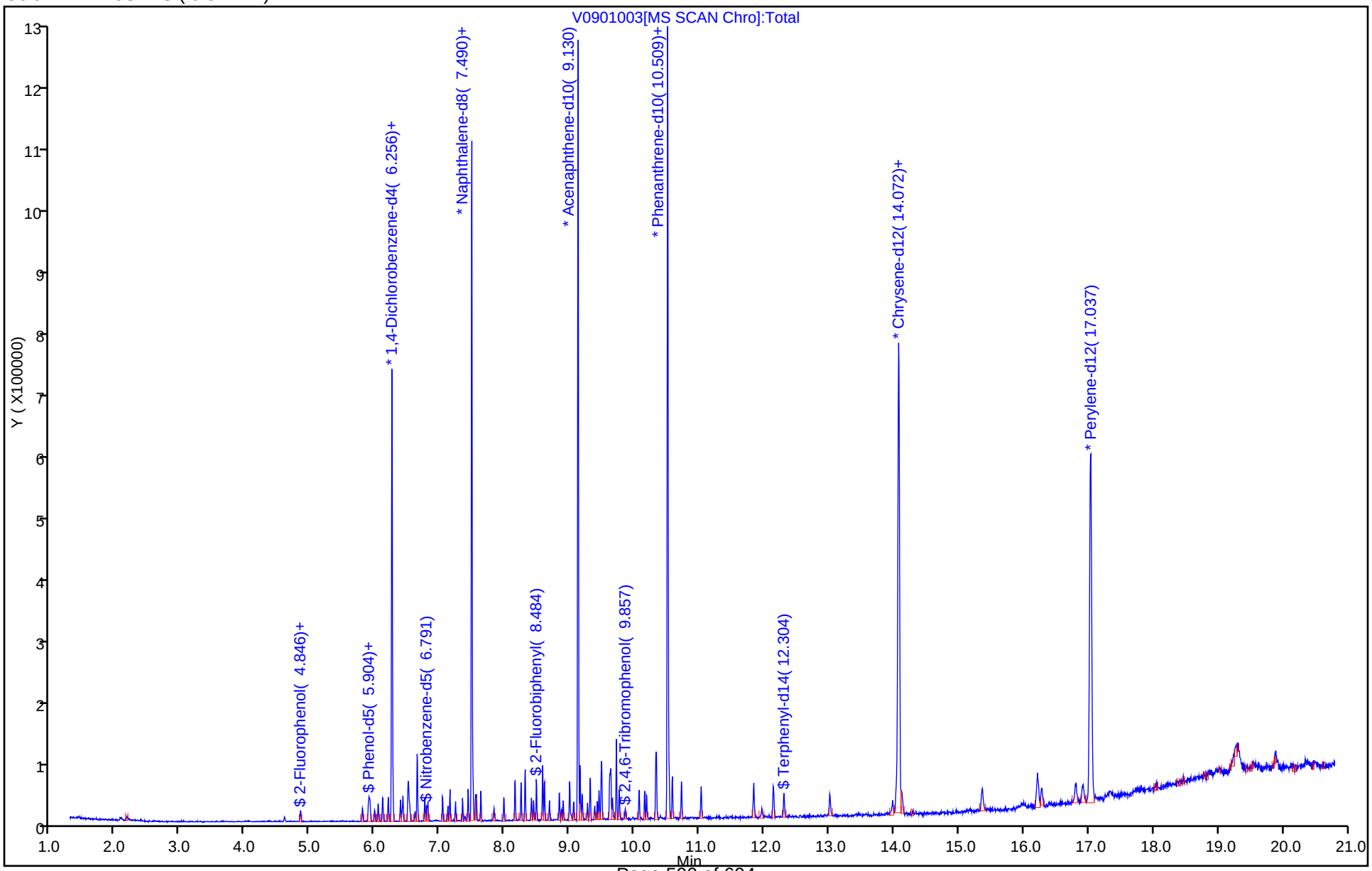
Report Date: 01-Sep-2015 04:26:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D

Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731	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_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

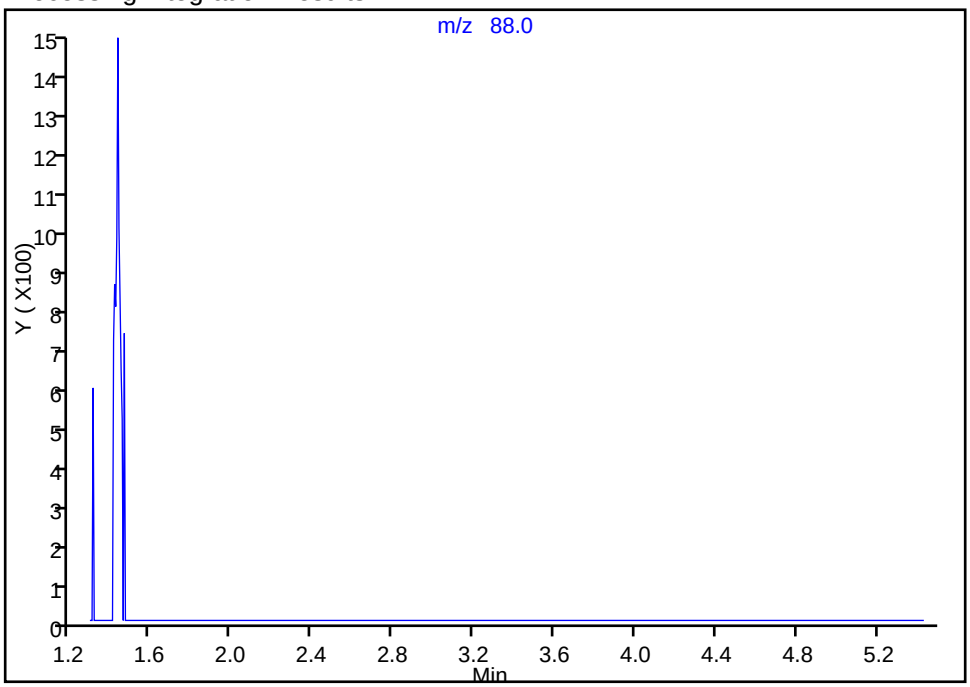
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D
Injection Date: 31-Aug-2015 13:40:30 Instrument ID: CH731
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_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

13 1,4-Dioxane, CAS: 123-91-1

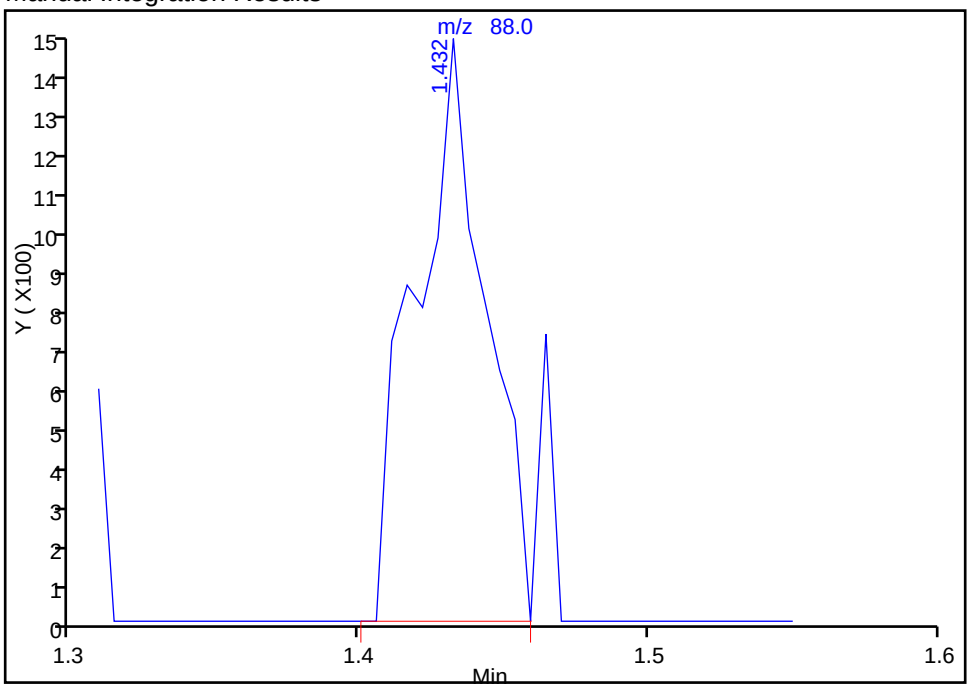
Not Detected
Expected RT: 1.43

Processing Integration Results



Manual Integration Results

RT: 1.43
Area: 2513
Amount: 0.437583
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

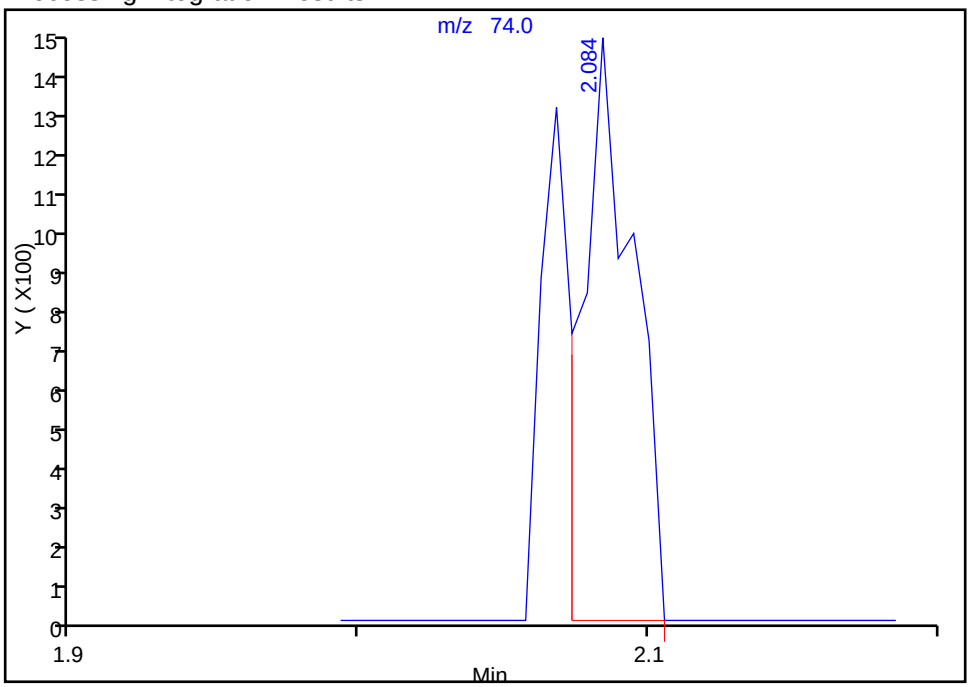
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
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_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

14 N-Nitrosodimethylamine, CAS: 62-75-9

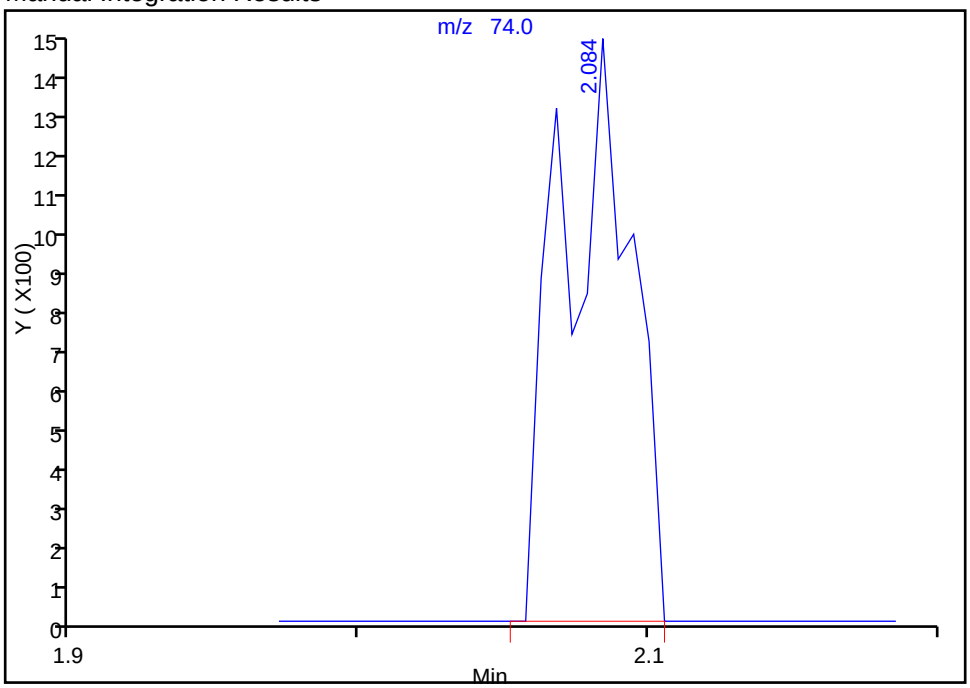
Processing Integration Results

RT: 2.08
Area: 1805
Amount: 0.396321
Amount Units: ng



Manual Integration Results

RT: 2.08
Area: 2499
Amount: 0.342589
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

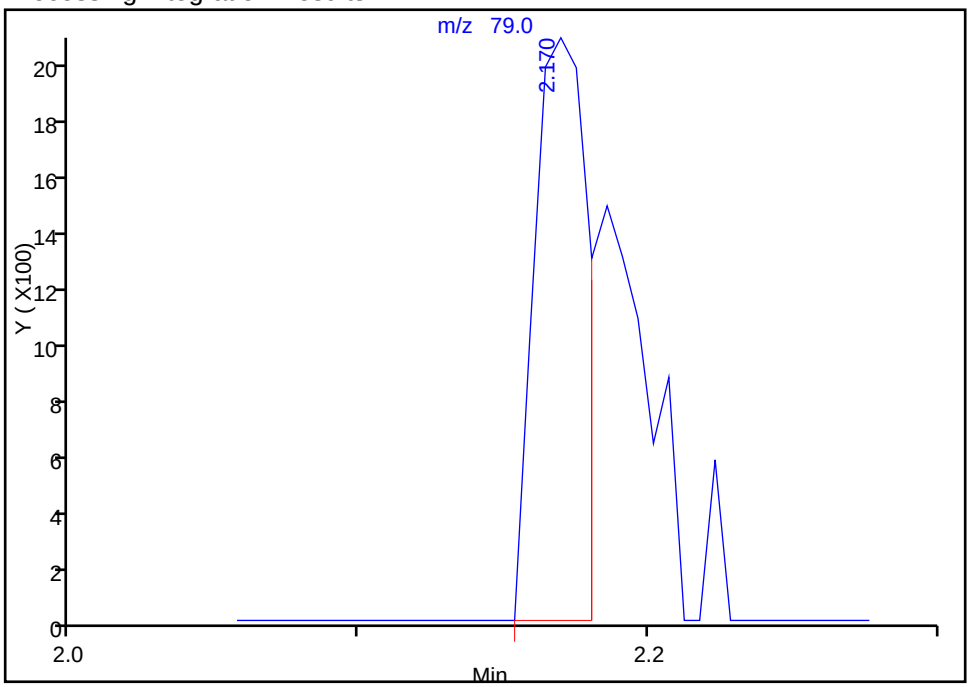
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
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_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

15 Pyridine, CAS: 110-86-1

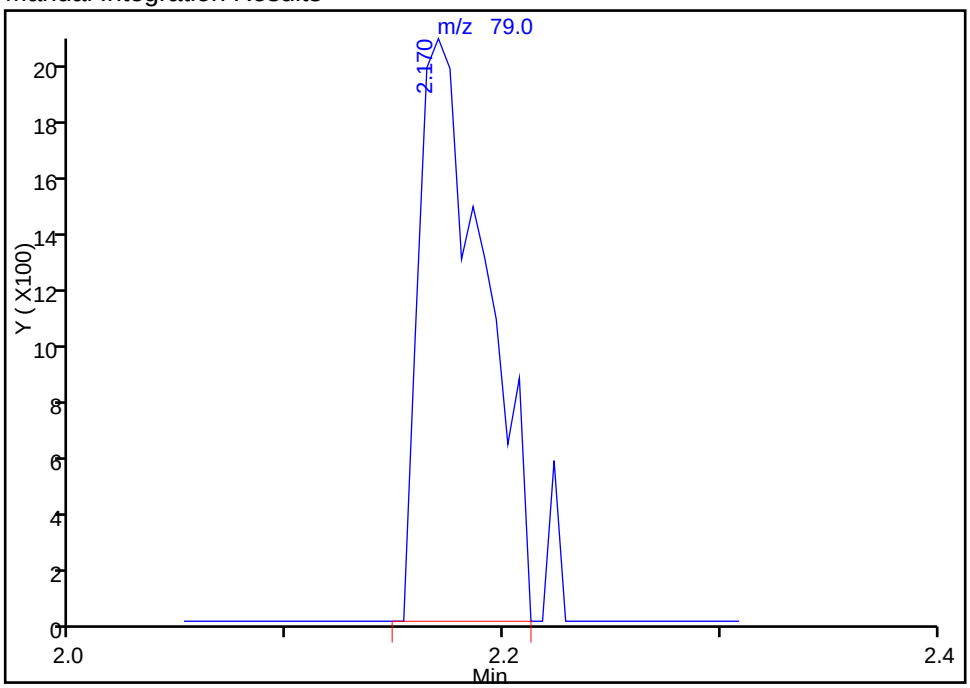
Processing Integration Results

RT: 2.17
Area: 2695
Amount: 0.390808
Amount Units: ng



Manual Integration Results

RT: 2.17
Area: 4427
Amount: 0.324294
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

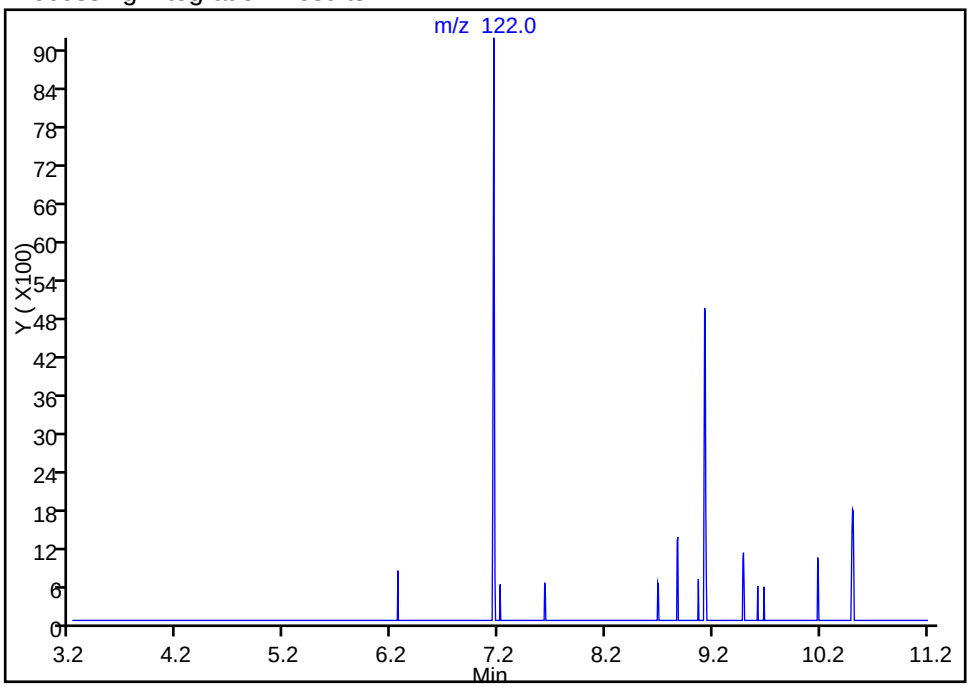
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
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_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

56 Benzoic acid, CAS: 65-85-0

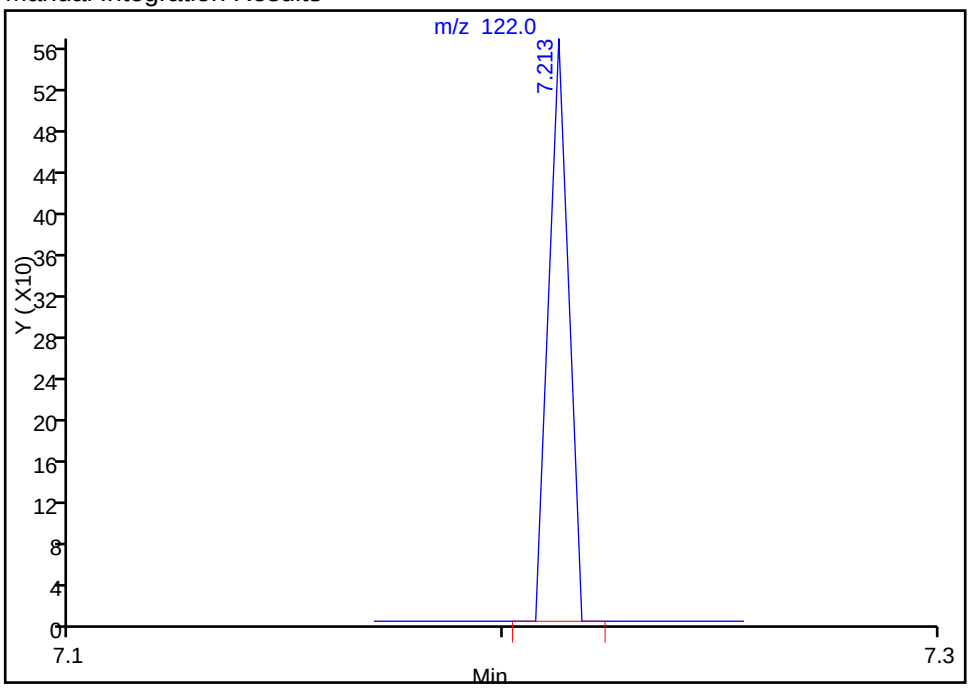
Not Detected
Expected RT: 7.21

Processing Integration Results



Manual Integration Results

RT: 7.21
Area: 180
Amount: 3.041930
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

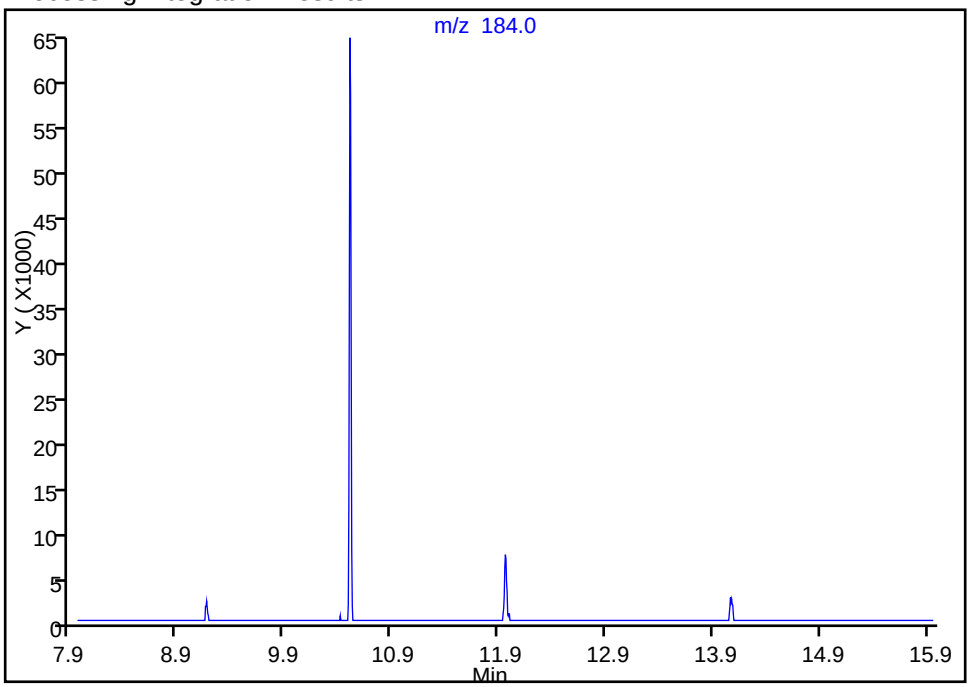
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
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_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

138 Benzidine, CAS: 92-87-5

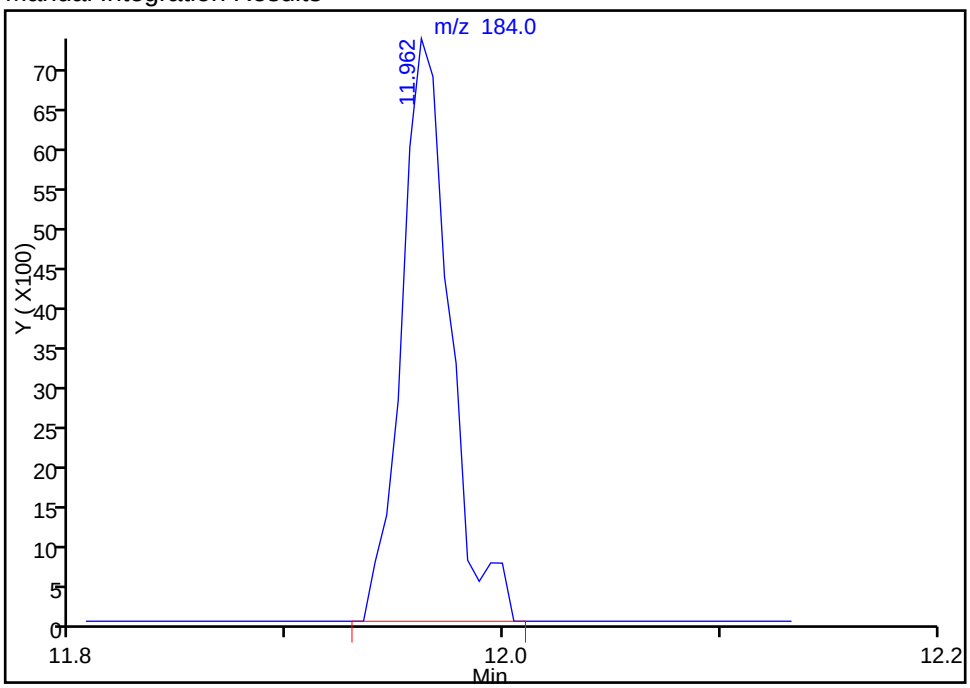
Not Detected
Expected RT: 11.96

Processing Integration Results



Manual Integration Results

RT: 11.96
Area: 11290
Amount: 0.345801
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

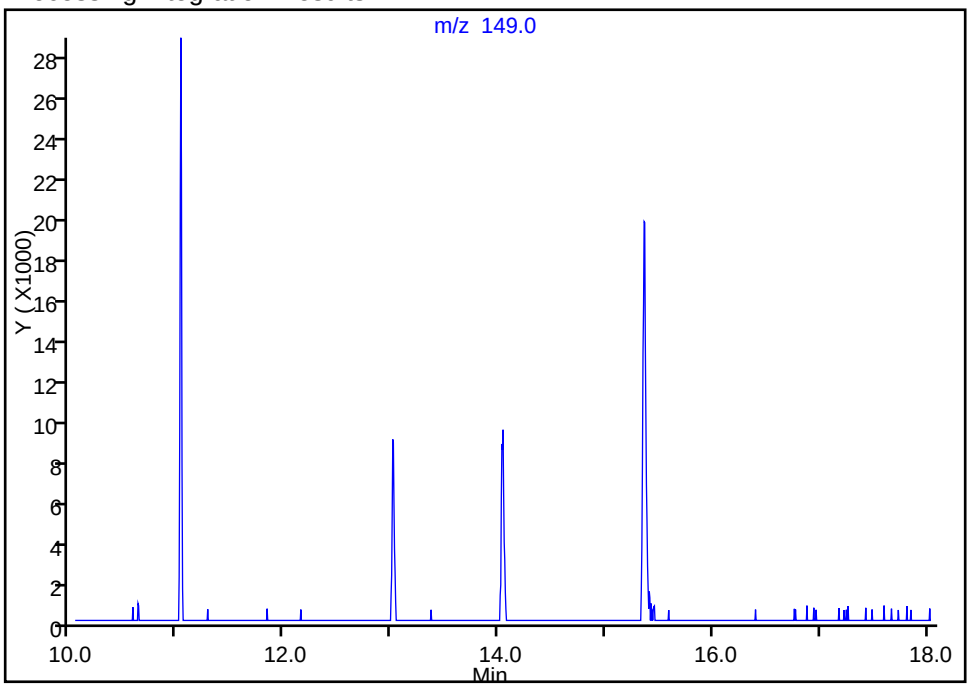
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
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_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

151 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

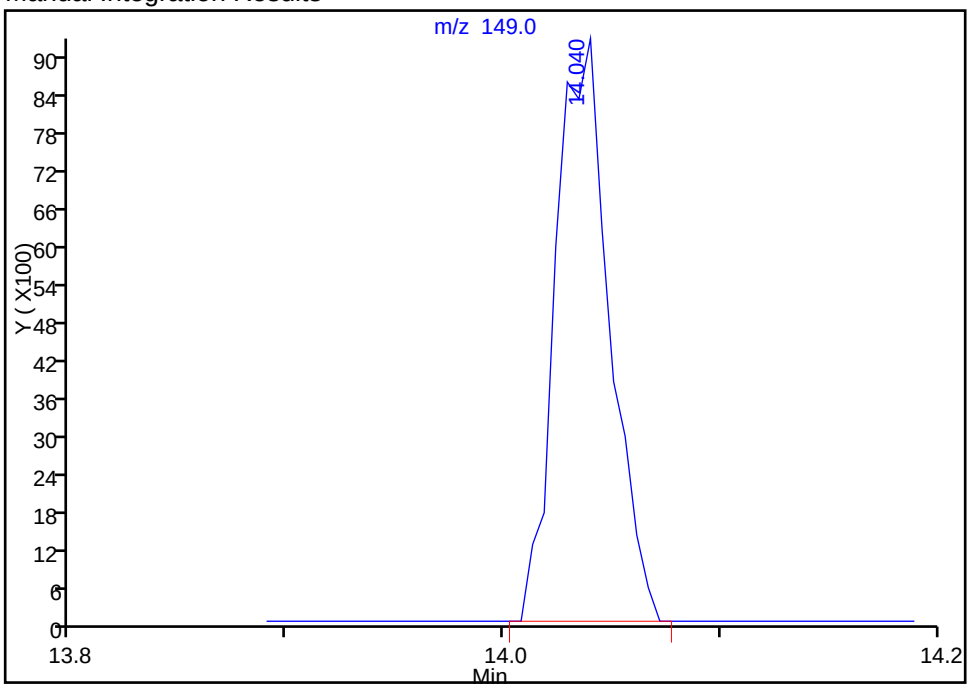
Processing Integration Results

Not Detected
Expected RT: 14.04



Manual Integration Results

RT: 14.04
Area: 15912
Amount: 0.358836
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

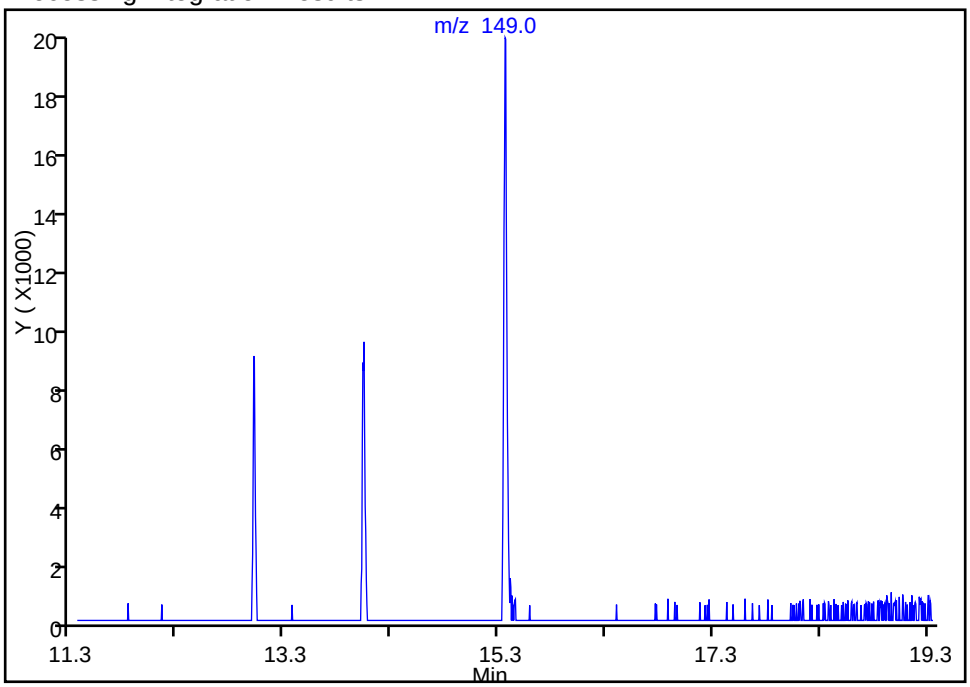
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
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_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

156 Di-n-octyl phthalate, CAS: 117-84-0

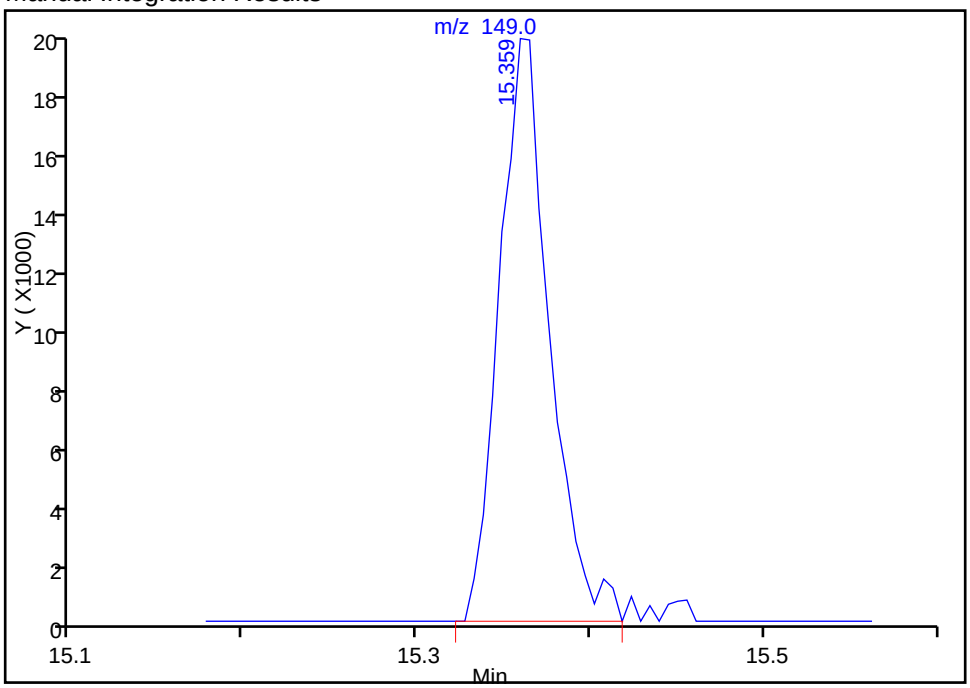
Not Detected
Expected RT: 15.36

Processing Integration Results



Manual Integration Results

RT: 15.36
Area: 38875
Amount: 0.495243
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

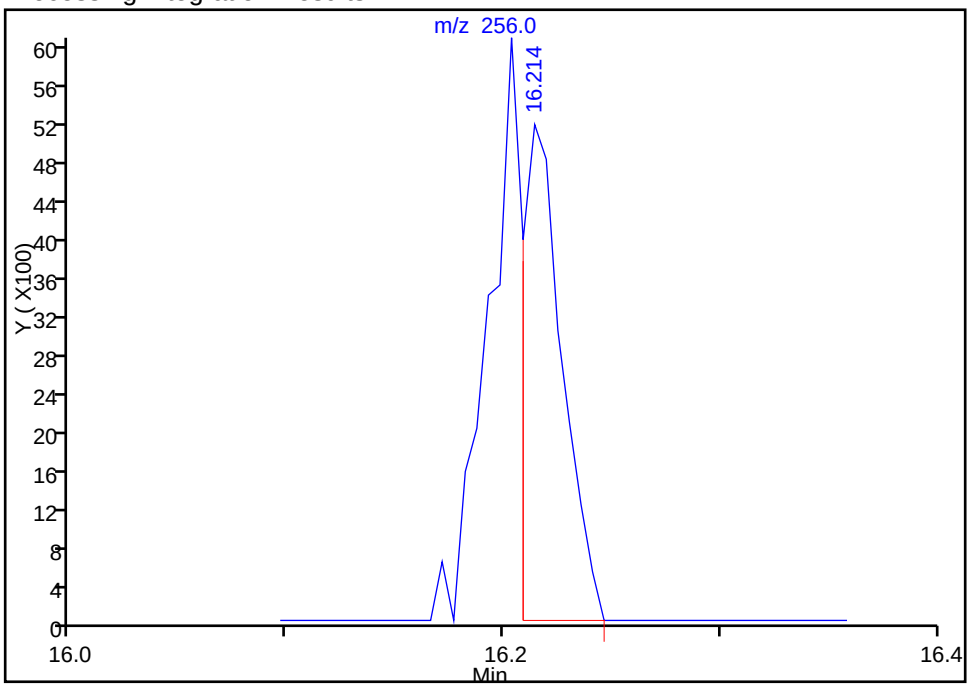
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D
Injection Date: 31-Aug-2015 13:40:30 Instrument ID: CH731
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_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

157 7,12-Dimethylbenz(a)anthracene, CAS: 57-97-6

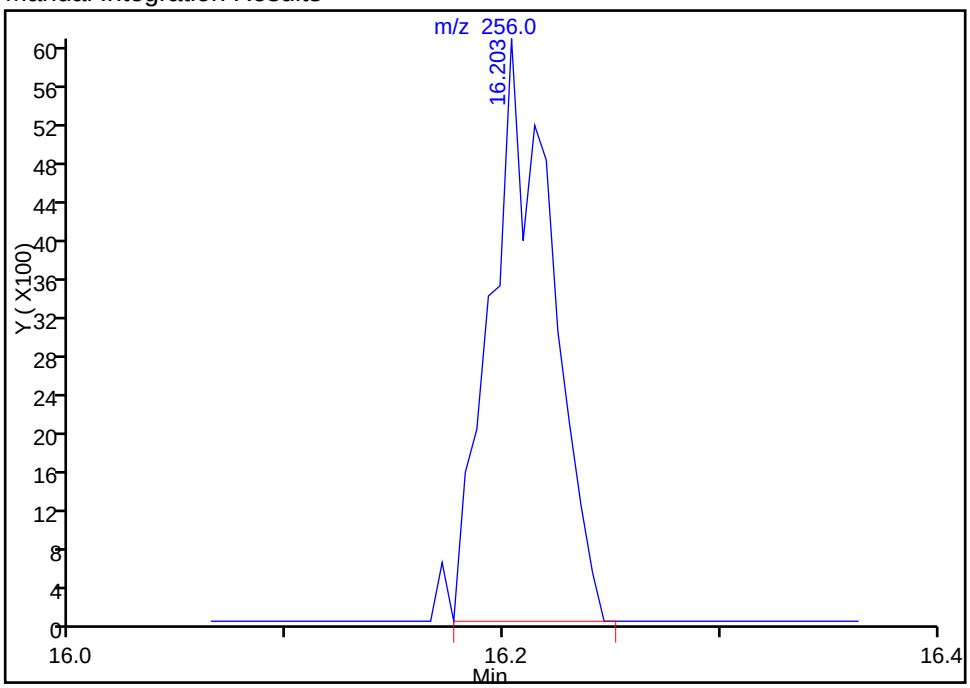
Processing Integration Results

RT: 16.21
Area: 6627
Amount: 0.397567
Amount Units: ng



Manual Integration Results

RT: 16.20
Area: 11900
Amount: 0.363402
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

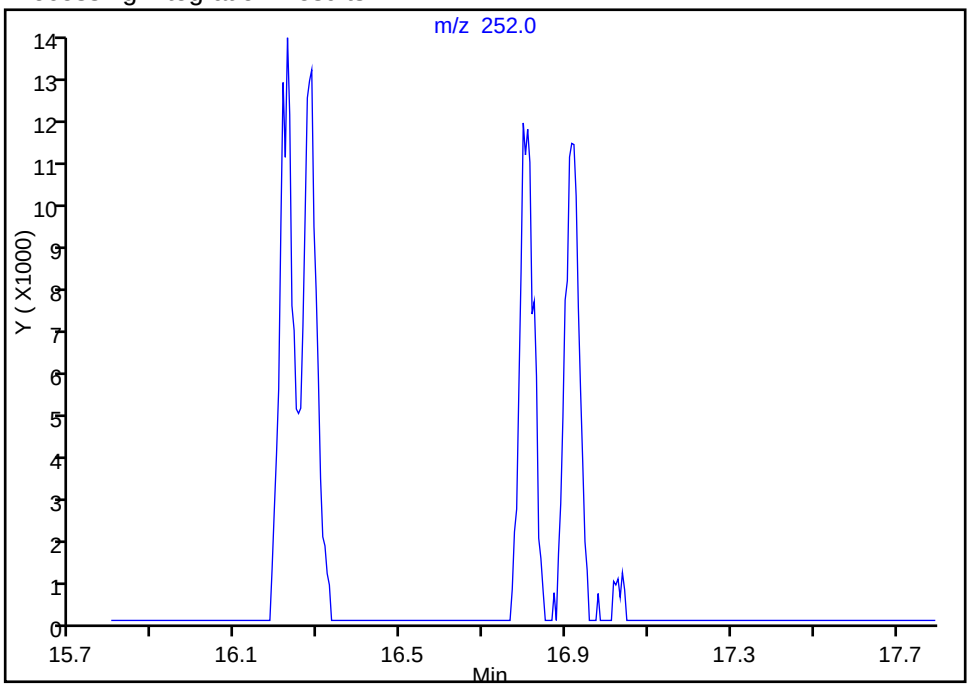
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D
Injection Date: 31-Aug-2015 13:40:30 Instrument ID: CH731
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_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

176 Benzo[e]pyrene, CAS: 192-97-2

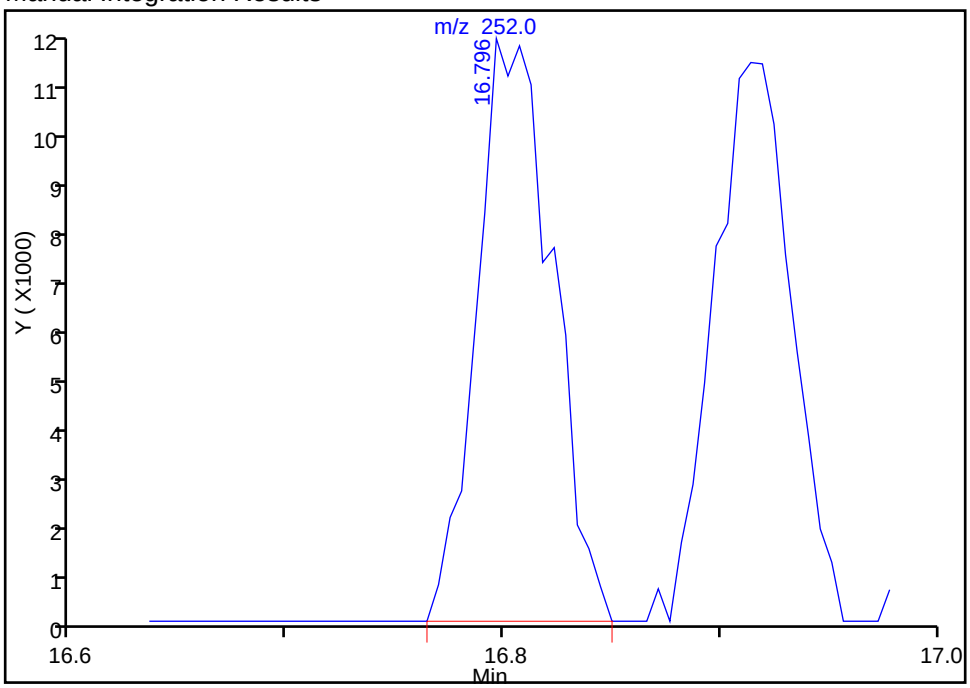
Not Detected
Expected RT: 16.80

Processing Integration Results



Manual Integration Results

RT: 16.80
Area: 26976
Amount: 0.384447
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

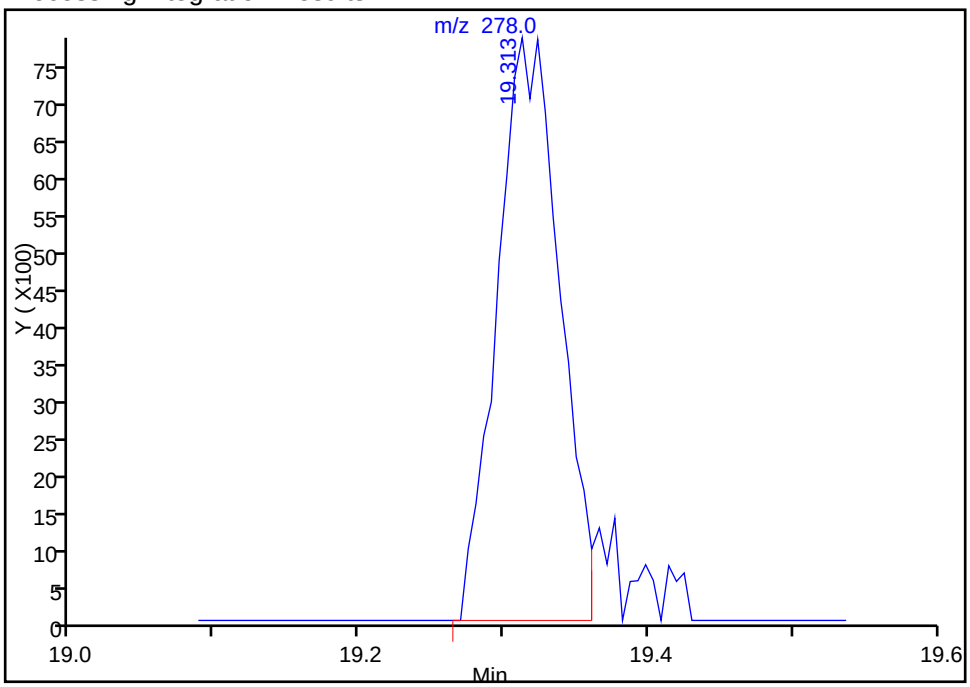
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
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_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

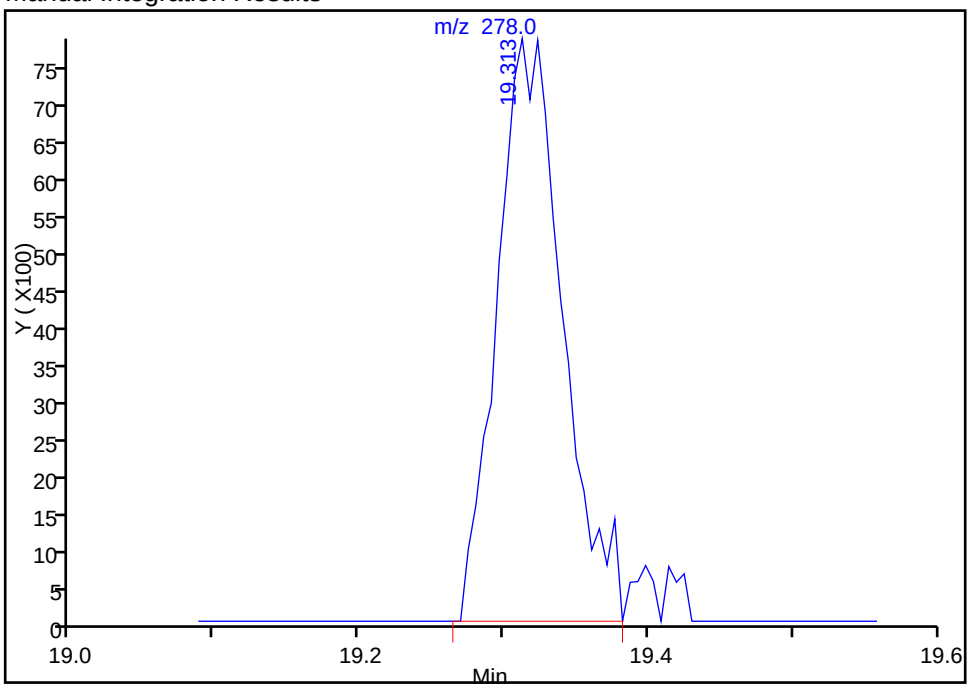
Processing Integration Results

RT: 19.31
Area: 23672
Amount: 0.343538
Amount Units: ng



Manual Integration Results

RT: 19.31
Area: 24757
Amount: 0.356840
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

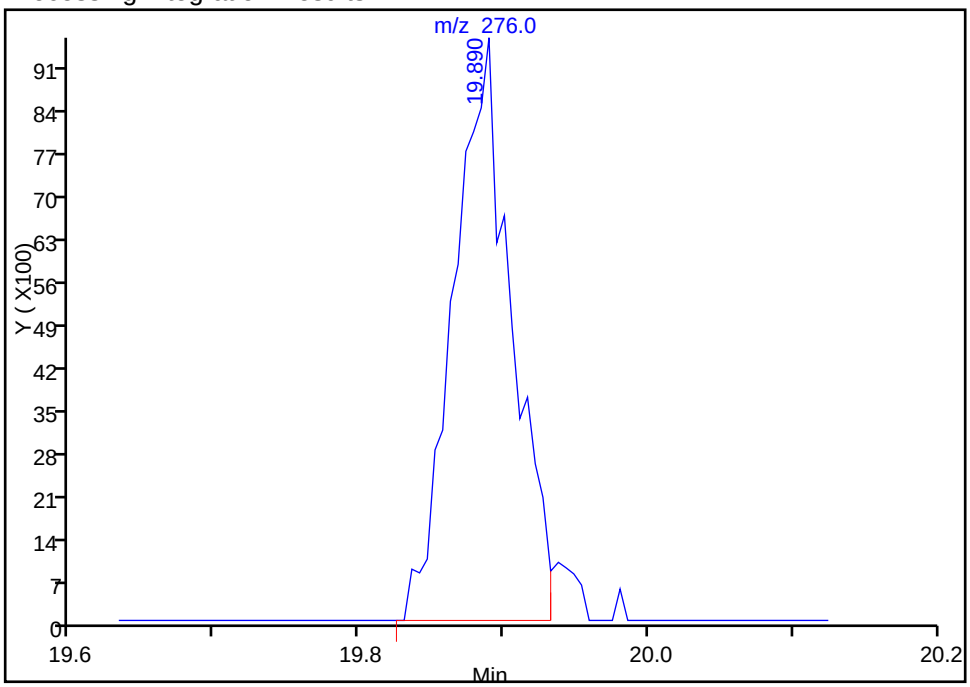
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
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_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

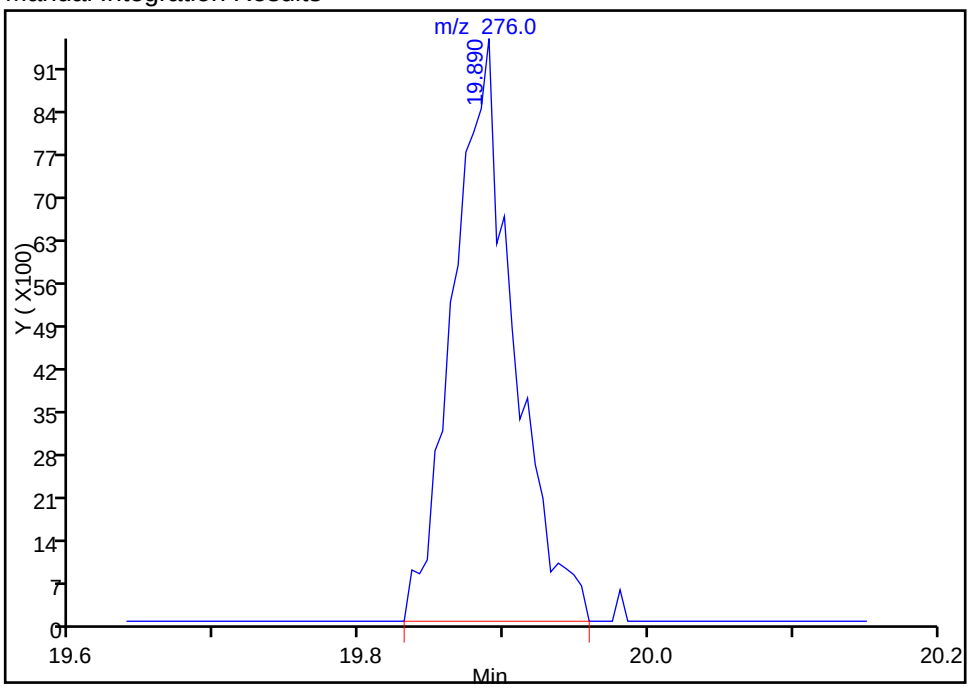
Processing Integration Results

RT: 19.89
Area: 26688
Amount: 0.374712
Amount Units: ng



Manual Integration Results

RT: 19.89
Area: 27696
Amount: 0.388177
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901004.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Aug-2015 14:08:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-004
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:30 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:10:30

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	6.257	6.256	0.001	94	108227	8.00	8.00	
* 2 Naphthalene-d8	136	7.485	7.490	-0.005	100	432257	8.00	8.00	
* 3 Acenaphthene-d10	164	9.125	9.130	-0.005	92	273755	8.00	8.00	
* 4 Phenanthrene-d10	188	10.509	10.509	0.000	97	490293	8.00	8.00	
* 5 Chrysene-d12	240	14.067	14.072	-0.005	97	495963	8.00	8.00	
* 6 Perylene-d12	264	17.026	17.031	-0.005	97	468875	8.00	8.00	
$ 7 2-Fluorophenol	112	4.852	4.851	0.001	92	32550	2.00	2.04	
$ 8 Phenol-d5	99	5.893	5.893	0.000	95	41939	2.00	2.02	
$ 9 Nitrobenzene-d5	82	6.791	6.796	-0.005	91	43441	2.00	2.07	
$ 10 2-Fluorobiphenyl	172	8.484	8.489	-0.005	100	97501	2.00	2.04	
$ 11 2,4,6-Tribromophenol	330	9.852	9.857	-0.005	89	11634	2.00	1.71	
$ 12 Terphenyl-d14	244	12.299	12.304	-0.005	99	96061	2.00	2.04	
13 1,4-Dioxane	88	1.433	1.432	0.001	88	11101	2.00	2.02	
14 N-Nitrosodimethylamine	74	2.068	2.084	-0.016	85	13632	2.00	1.95	
15 Pyridine	79	2.154	2.170	-0.016	95	26429	2.00	2.02	
22 Methyl methanesulfonate	80	4.601	4.600	0.001	89	18162	2.00	2.00	
26 Benzaldehyde	77	5.803	5.802	0.001	90	22705	2.00	2.10	
27 Phenol	94	5.909	5.909	0.000	99	47455	2.00	2.09	
28 Aniline	93	5.920	5.920	0.000	97	52643	2.00	2.05	
29 Bis(2-chloroethyl)ether	93	5.990	5.989	0.001	96	31795	2.00	2.02	
31 2-Chlorophenol	128	6.043	6.048	-0.005	95	37759	2.00	1.96	
32 n-Decane	43	6.112	6.117	-0.005	88	36716	2.00	2.00	
33 1,3-Dichlorobenzene	146	6.198	6.203	-0.005	95	43060	2.00	1.95	
34 1,4-Dichlorobenzene	146	6.273	6.278	-0.005	95	46277	2.00	2.04	
36 Benzyl alcohol	108	6.390	6.390	0.000	90	22716	2.00	1.97	
37 1,2-Dichlorobenzene	146	6.428	6.427	0.001	94	42858	2.00	1.98	
38 2-Methylphenol	108	6.502	6.502	0.000	97	35486	2.00	2.12	
39 Indene	116	6.513	6.513	0.000	88	64475	2.00	1.99	
40 2,2'-oxybis[1-chloropropan	45	6.529	6.529	0.000	89	48704	2.00	2.12	
41 N-Nitrosopyrrolidine	100	6.615	6.614	0.001	81	14628	2.00	1.91	
44 N-Nitrosodi-n-propylamine	70	6.647	6.646	0.001	70	26603	2.00	2.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.647	6.646	0.001	78	53299	2.00	2.10	
45 4-Methylphenol	108	6.647	6.652	-0.005	61	35608	2.00	2.02	
47 Hexachloroethane	117	6.764	6.764	0.000	93	19947	2.00	2.02	
48 Nitrobenzene	77	6.812	6.812	0.000	90	43310	2.00	2.11	
50 Isophorone	82	7.037	7.036	0.001	99	70568	2.00	2.09	
51 2-Nitrophenol	139	7.122	7.122	0.000	97	21894	2.00	2.11	
52 2,4-Dimethylphenol	107	7.149	7.154	-0.005	97	41418	2.00	2.06	
56 Benzoic acid	122	7.208	7.213	-0.005	56	1307	2.00	3.15	M
55 Bis(2-chloroethoxy)methane	93	7.240	7.239	0.001	97	41308	2.00	2.03	
57 2,4-Dichlorophenol	162	7.347	7.346	0.001	94	34899	2.00	2.03	
59 1,2,4-Trichlorobenzene	180	7.432	7.437	-0.005	94	41709	2.00	2.01	
60 Naphthalene	128	7.507	7.506	0.001	98	121813	2.00	2.07	
62 4-Chloroaniline	127	7.544	7.544	0.000	95	48762	2.00	2.01	
63 2,6-Dichlorophenol	162	7.560	7.560	0.000	96	35789	2.00	2.07	
64 Hexachlorobutadiene	225	7.630	7.629	0.001	96	26793	2.00	2.02	
67 Caprolactam	113	7.833	7.832	0.001	78	9876	2.00	1.91	
70 4-Chloro-3-methylphenol	107	7.982	7.987	-0.005	96	35420	2.00	2.07	
72 2-Methylnaphthalene	142	8.153	8.158	-0.005	92	87821	2.00	2.10	
75 1-Methylnaphthalene	142	8.249	8.249	0.000	92	76649	2.00	2.08	
76 Hexachlorocyclopentadiene	237	8.308	8.308	0.000	95	28210	2.00	1.91	
77 1,2,4,5-Tetrachlorobenzene	216	8.313	8.313	0.000	96	45600	2.00	2.10	
78 2,4,6-Trichlorophenol	196	8.410	8.409	0.001	94	26423	2.00	1.95	
79 2,4,5-Trichlorophenol	196	8.442	8.441	0.001	95	27979	2.00	1.97	
80 1,1'-Biphenyl	154	8.581	8.580	0.001	95	106547	2.00	2.02	
81 2-Chloronaphthalene	162	8.607	8.612	-0.005	96	85690	2.00	2.06	
82 2-Nitroaniline	65	8.682	8.687	-0.005	82	23054	2.00	1.96	
86 Dimethyl phthalate	163	8.837	8.842	-0.005	97	86872	2.00	1.96	
87 1,3-Dinitrobenzene	168	8.869	8.874	-0.005	85	11653	2.00	1.65	
88 2,6-Dinitrotoluene	165	8.901	8.901	0.000	91	19061	2.00	1.90	
89 Acenaphthylene	152	8.997	8.997	0.000	98	130763	2.00	2.05	
90 3-Nitroaniline	138	9.061	9.061	0.000	94	20444	2.00	1.90	
91 Acenaphthene	153	9.158	9.157	0.001	92	83539	2.00	2.07	
92 2,4-Dinitrophenol	184	9.158	9.168	-0.010	60	12511	4.00	4.21	
93 4-Nitrophenol	109	9.190	9.195	-0.005	82	27200	4.00	3.78	
94 2,4-Dinitrotoluene	165	9.275	9.275	0.000	90	25755	2.00	1.91	
95 Dibenzofuran	168	9.312	9.317	-0.005	95	123527	2.00	2.05	
97 2,3,5,6-Tetrachlorophenol	232	9.382	9.387	-0.005	93	24428	2.00	1.88	
99 2,3,4,6-Tetrachlorophenol	232	9.425	9.424	0.001	73	25094	2.00	1.89	
100 2-Naphthylamine	143	9.451	9.451	0.000	96	84965	2.00	2.07	
101 Diethyl phthalate	149	9.483	9.483	0.000	98	95724	2.00	2.07	
102 Hexadecane	57	9.494	9.494	0.000	96	62263	2.00	2.20	
104 4-Chlorophenyl phenyl ethe	204	9.612	9.617	-0.005	93	48092	2.00	1.94	
105 4-Nitroaniline	138	9.622	9.622	0.000	84	22310	2.00	1.96	
106 Fluorene	166	9.633	9.633	0.000	95	102583	2.00	2.08	
108 4,6-Dinitro-2-methylphenol	198	9.654	9.654	0.000	84	30508	4.00	3.65	
109 N-Nitrosodiphenylamine	169	9.718	9.718	0.000	63	143210	4.00	4.21	
61 Azobenzene	77	9.761	9.761	0.000	99	99702	2.00	2.17	
111 1,2-Diphenylhydrazine	77	9.761	9.761	0.000	99	99702	2.00	2.17	
116 4-Bromophenyl phenyl ether	248	10.071	10.071	0.000	68	28113	2.00	2.04	
118 Hexachlorobenzene	284	10.151	10.156	-0.005	91	28493	2.00	1.90	
119 Atrazine	200	10.183	10.188	-0.005	92	25353	2.00	1.90	
122 Pentachlorophenol	266	10.322	10.327	-0.005	90	43404	4.00	4.23	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.333	10.338	-0.005	95	66596	2.00	2.14	
126 Phenanthrene	178	10.530	10.530	0.000	96	157847	2.00	2.11	
128 Anthracene	178	10.579	10.584	-0.005	97	153060	2.00	2.05	
130 Carbazole	167	10.723	10.722	0.001	96	132022	2.00	2.01	
132 Di-n-butyl phthalate	149	11.022	11.027	-0.005	100	147747	2.00	1.96	
137 Fluoranthene	202	11.834	11.839	-0.005	97	151430	2.00	1.90	
138 Benzidine	184	11.957	11.962	-0.005	99	52731	2.00	1.68	
139 Pyrene	202	12.138	12.143	-0.005	98	160209	2.00	2.10	
144 Butyl benzyl phthalate	149	13.009	13.009	0.000	98	58980	2.00	1.92	
149 3,3'-Dichlorobenzidine	252	13.976	13.981	-0.005	74	51162	2.00	1.89	
151 Bis(2-ethylhexyl) phthalat	149	14.030	14.040	-0.010	97	82430	2.00	1.94	
152 Benzo[a]anthracene	228	14.051	14.051	0.000	98	147520	2.00	2.04	
153 Chrysene	228	14.115	14.120	-0.005	97	136440	2.00	2.01	
156 Di-n-octyl phthalate	149	15.354	15.359	-0.005	99	161544	2.00	2.13	
157 7,12-Dimethylbenz(a)anthra	256	16.204	16.203	0.001	91	62316	2.00	1.97	
158 Benzo[b]fluoranthene	252	16.214	16.225	-0.011	97	143518	2.00	1.98	
159 Benzo[k]fluoranthene	252	16.273	16.284	-0.011	99	144106	2.00	1.99	
176 Benzo[e]pyrene	252	16.802	16.796	0.006	0	133992	2.00	1.98	
160 Benzo[a]pyrene	252	16.909	16.914	-0.005	77	137893	2.00	1.99	
163 Indeno[1,2,3-cd]pyrene	276	19.276	19.275	0.001	99	157033	2.00	1.99	
164 Dibenz(a,h)anthracene	278	19.302	19.313	-0.011	82	131409	2.00	1.96	
165 Benzo[g,h,i]perylene	276	19.874	19.890	-0.016	97	133873	2.00	1.95	
S 208 Methyl Phenols,Total	108				0		4.00	4.14	
S 206 Total Cresols	108				0		4.00	4.14	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD2.0i_00007 Amount Added: 1.00 Units: mL

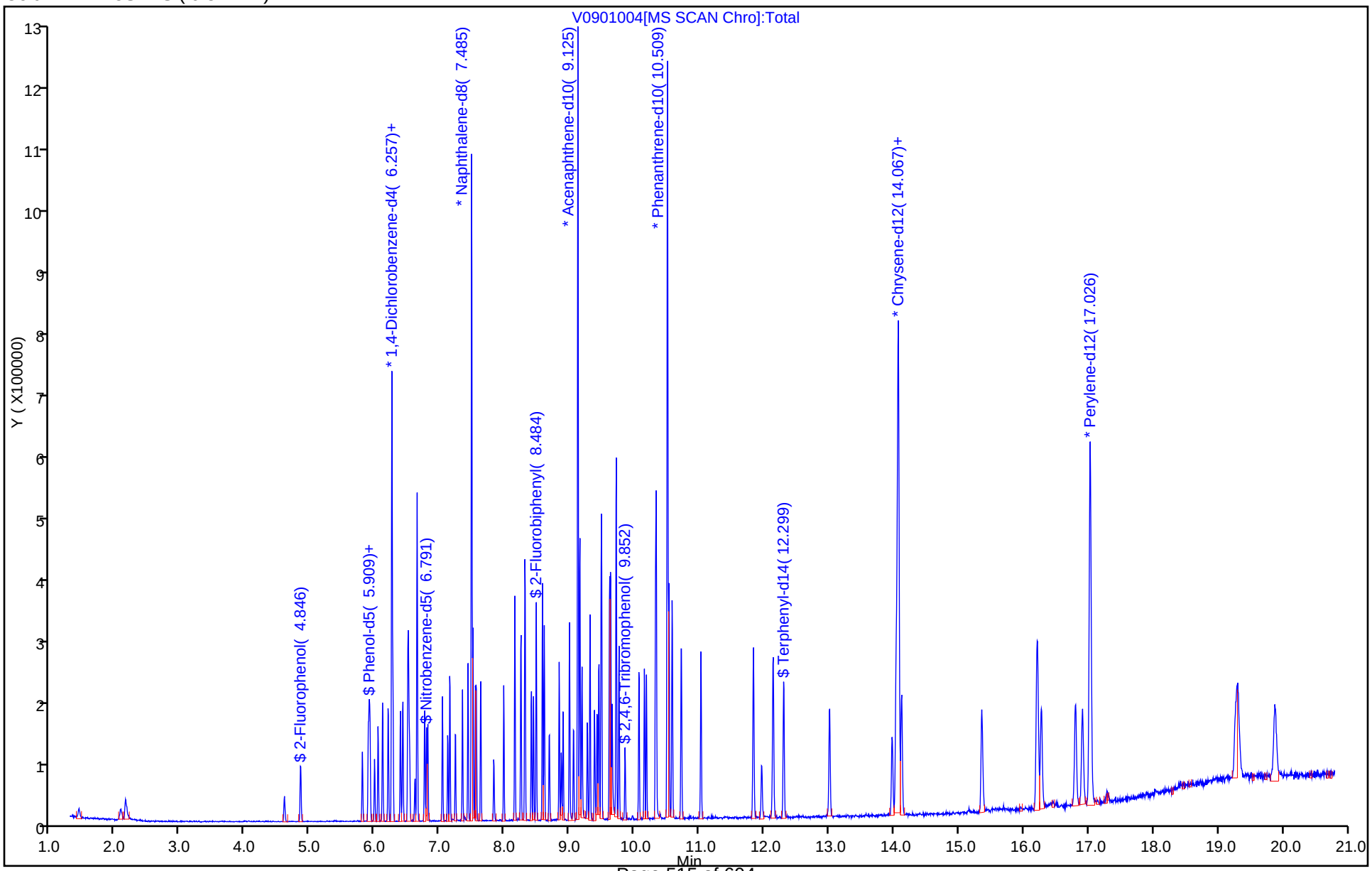
Report Date: 01-Sep-2015 04:26:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901004.D

Injection Date:	31-Aug-2015 14:08:30	Instrument ID:	CH731	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_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

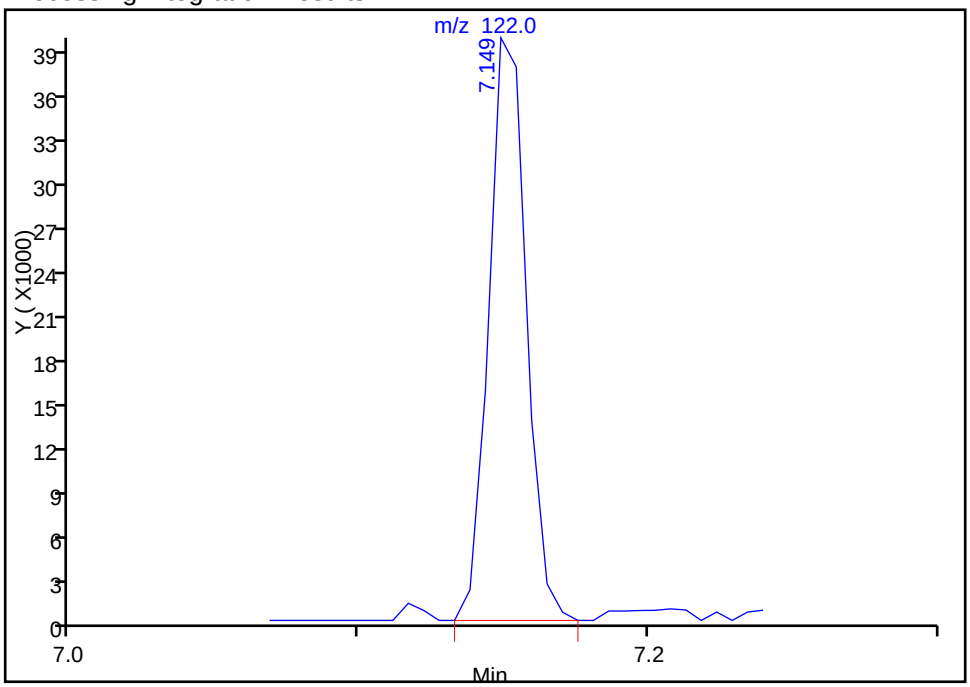
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901004.D
Injection Date: 31-Aug-2015 14:08:30 Instrument ID: CH731
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_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

56 Benzoic acid, CAS: 65-85-0

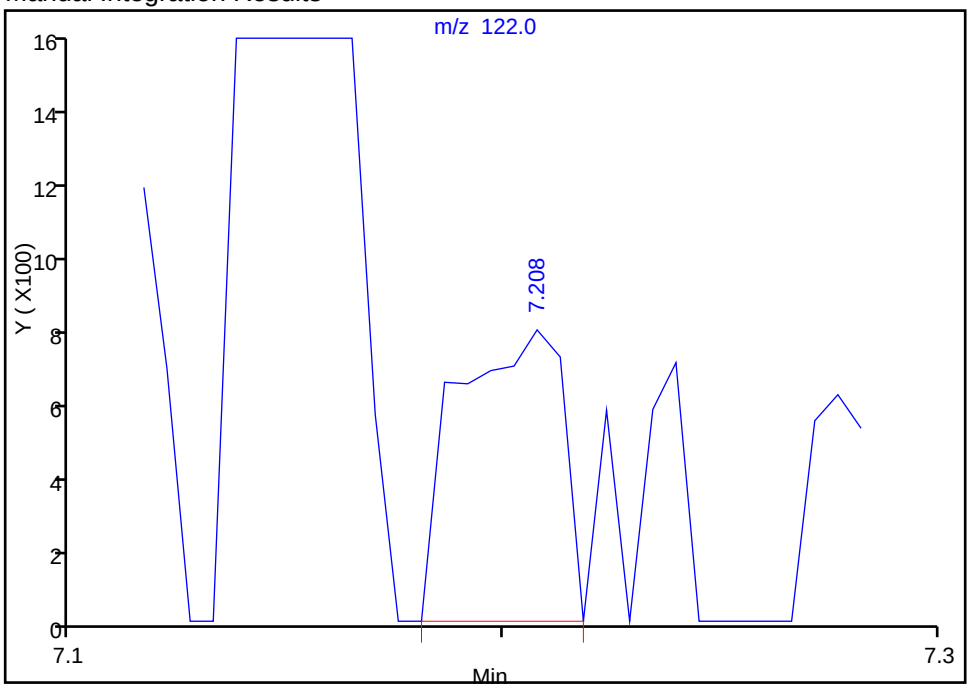
Processing Integration Results

RT: 7.15
Area: 35300
Amount: 4.639225
Amount Units: ng



Manual Integration Results

RT: 7.21
Area: 1307
Amount: 3.152212
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:10:30
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 31-Aug-2015 14:36:30 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-005
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:32 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:11:10

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	6.261	6.256	0.005	94	104088	8.00	8.00	
* 2 Naphthalene-d8	136	7.490	7.490	0.000	100	422371	8.00	8.00	
* 3 Acenaphthene-d10	164	9.130	9.130	0.000	92	261501	8.00	8.00	
* 4 Phenanthrene-d10	188	10.514	10.509	0.005	97	480103	8.00	8.00	
* 5 Chrysene-d12	240	14.082	14.072	0.010	97	515797	8.00	8.00	
* 6 Perylene-d12	264	17.037	17.031	0.005	97	474446	8.00	8.00	
$ 7 2-Fluorophenol	112	4.856	4.851	0.005	93	62258	4.00	4.06	
$ 8 Phenol-d5	99	5.898	5.893	0.005	95	84827	4.00	4.24	
$ 9 Nitrobenzene-d5	82	6.796	6.796	0.000	90	88028	4.00	4.28	
$ 10 2-Fluorobiphenyl	172	8.489	8.489	0.000	100	190403	4.00	4.17	
$ 11 2,4,6-Tribromophenol	330	9.862	9.857	0.005	90	24511	4.00	3.68	
$ 12 Terphenyl-d14	244	12.309	12.304	0.005	99	202747	4.00	4.14	
13 1,4-Dioxane	88	1.437	1.432	0.005	88	22493	4.00	4.26	
14 N-Nitrosodimethylamine	74	2.089	2.084	0.005	89	27865	4.00	4.15	
15 Pyridine	79	2.153	2.170	-0.017	94	55292	4.00	4.40	
22 Methyl methanesulfonate	80	4.605	4.600	0.005	90	36708	4.00	4.20	
26 Benzaldehyde	77	5.807	5.802	0.005	94	43874	4.00	4.23	
27 Phenol	94	5.914	5.909	0.005	100	94817	4.00	4.34	
28 Aniline	93	5.925	5.920	0.005	96	103745	4.00	4.21	
29 Bis(2-chloroethyl)ether	93	5.994	5.989	0.005	95	66318	4.00	4.39	
31 2-Chlorophenol	128	6.048	6.048	0.000	96	79641	4.00	4.30	
32 n-Decane	43	6.117	6.117	0.000	89	78321	4.00	4.43	
33 1,3-Dichlorobenzene	146	6.208	6.203	0.005	96	89430	4.00	4.21	
34 1,4-Dichlorobenzene	146	6.277	6.278	-0.001	92	91801	4.00	4.22	
36 Benzyl alcohol	108	6.395	6.390	0.005	89	48151	4.00	4.34	
37 1,2-Dichlorobenzene	146	6.432	6.427	0.005	95	89174	4.00	4.28	
38 2-Methylphenol	108	6.507	6.502	0.005	97	70753	4.00	4.40	
39 Indene	116	6.518	6.513	0.005	89	132693	4.00	4.26	
40 2,2'-oxybis[1-chloropropan	45	6.534	6.529	0.005	88	95463	4.00	4.31	
41 N-Nitrosopyrrolidine	100	6.614	6.614	0.000	82	29094	4.00	3.96	
44 N-Nitrosodi-n-propylamine	70	6.651	6.646	0.005	71	52581	4.00	4.45	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.651	6.646	0.005	81	108645	4.00	4.45	
45 4-Methylphenol	108	6.651	6.652	-0.001	63	72549	4.00	4.28	
47 Hexachloroethane	117	6.769	6.764	0.005	92	38937	4.00	4.10	
48 Nitrobenzene	77	6.817	6.812	0.005	90	87150	4.00	4.34	
50 Isophorone	82	7.041	7.036	0.005	99	138999	4.00	4.22	
51 2-Nitrophenol	139	7.127	7.122	0.005	98	40619	4.00	4.01	
52 2,4-Dimethylphenol	107	7.154	7.154	0.000	99	84102	4.00	4.29	
56 Benzoic acid	122	7.191	7.213	-0.022	89	15551	4.00	4.56	M
55 Bis(2-chloroethoxy)methane	93	7.239	7.239	0.000	97	82356	4.00	4.14	
57 2,4-Dichlorophenol	162	7.351	7.346	0.005	94	71088	4.00	4.23	
59 1,2,4-Trichlorobenzene	180	7.437	7.437	0.000	93	85855	4.00	4.24	
60 Naphthalene	128	7.511	7.506	0.005	97	238651	4.00	4.15	
62 4-Chloroaniline	127	7.549	7.544	0.005	94	98566	4.00	4.15	
63 2,6-Dichlorophenol	162	7.565	7.560	0.005	96	69925	4.00	4.15	
64 Hexachlorobutadiene	225	7.634	7.629	0.005	96	54777	4.00	4.23	
67 Caprolactam	113	7.837	7.832	0.005	77	18977	4.00	3.75	
70 4-Chloro-3-methylphenol	107	7.987	7.987	0.000	95	69183	4.00	4.14	
72 2-Methylnaphthalene	142	8.158	8.158	0.000	92	172507	4.00	4.21	
75 1-Methylnaphthalene	142	8.254	8.249	0.005	93	153822	4.00	4.28	
76 Hexachlorocyclopentadiene	237	8.313	8.308	0.005	97	56673	4.00	4.03	
77 1,2,4,5-Tetrachlorobenzene	216	8.318	8.313	0.005	98	87870	4.00	4.23	
78 2,4,6-Trichlorophenol	196	8.414	8.409	0.005	94	54244	4.00	4.19	
79 2,4,5-Trichlorophenol	196	8.446	8.441	0.005	93	55772	4.00	4.11	
80 1,1'-Biphenyl	154	8.585	8.580	0.005	94	214141	4.00	4.24	
81 2-Chloronaphthalene	162	8.612	8.612	0.000	97	170202	4.00	4.29	
82 2-Nitroaniline	65	8.692	8.687	0.005	82	46947	4.00	4.19	
86 Dimethyl phthalate	163	8.842	8.842	0.000	97	177042	4.00	4.19	
87 1,3-Dinitrobenzene	168	8.874	8.874	0.000	88	25857	4.00	3.84	
88 2,6-Dinitrotoluene	165	8.906	8.901	0.005	95	40402	4.00	4.21	
89 Acenaphthylene	152	9.002	8.997	0.005	98	250435	4.00	4.11	
90 3-Nitroaniline	138	9.066	9.061	0.005	92	42653	4.00	4.15	
91 Acenaphthene	153	9.162	9.157	0.005	91	167192	4.00	4.33	
92 2,4-Dinitrophenol	184	9.162	9.168	-0.006	62	33546	8.00	7.38	
93 4-Nitrophenol	109	9.194	9.195	-0.001	83	54652	8.00	7.95	
94 2,4-Dinitrotoluene	165	9.280	9.275	0.005	91	51206	4.00	3.97	
95 Dibenzofuran	168	9.317	9.317	0.000	95	242079	4.00	4.21	
97 2,3,5,6-Tetrachlorophenol	232	9.387	9.387	0.000	93	49331	4.00	3.98	
99 2,3,4,6-Tetrachlorophenol	232	9.429	9.424	0.005	74	50343	4.00	3.97	
100 2-Naphthylamine	143	9.456	9.451	0.005	96	161622	4.00	4.13	
101 Diethyl phthalate	149	9.488	9.483	0.005	97	182244	4.00	4.12	
102 Hexadecane	57	9.499	9.494	0.005	96	121910	4.00	4.40	
104 4-Chlorophenyl phenyl ethe	204	9.616	9.617	-0.001	95	95483	4.00	4.02	
105 4-Nitroaniline	138	9.627	9.622	0.005	82	43917	4.00	4.04	
106 Fluorene	166	9.638	9.633	0.005	95	198272	4.00	4.21	
108 4,6-Dinitro-2-methylphenol	198	9.659	9.654	0.005	83	55789	8.00	6.82	
109 N-Nitrosodiphenylamine	169	9.723	9.718	0.005	63	278021	8.00	8.34	
61 Azobenzene	77	9.766	9.761	0.005	99	193083	4.00	4.29	
111 1,2-Diphenylhydrazine	77	9.766	9.761	0.005	99	193083	4.00	4.29	
116 4-Bromophenyl phenyl ether	248	10.076	10.071	0.005	67	55667	4.00	4.13	
118 Hexachlorobenzene	284	10.156	10.156	0.000	93	59184	4.00	4.03	
119 Atrazine	200	10.188	10.188	0.000	93	54428	4.00	4.16	
122 Pentachlorophenol	266	10.327	10.327	0.000	91	66577	8.00	6.62	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.337	10.338	-0.001	95	129797	4.00	4.34	
126 Phenanthrene	178	10.535	10.530	0.005	97	308622	4.00	4.22	
128 Anthracene	178	10.589	10.584	0.005	97	306661	4.00	4.20	
130 Carbazole	167	10.727	10.722	0.005	96	270667	4.00	4.21	
132 Di-n-butyl phthalate	149	11.032	11.027	0.005	100	303130	4.00	4.11	
137 Fluoranthene	202	11.844	11.839	0.005	97	319725	4.00	4.10	
138 Benzidine	184	11.972	11.962	0.010	99	118831	4.00	3.65	
139 Pyrene	202	12.148	12.143	0.005	98	337422	4.00	4.25	
144 Butyl benzyl phthalate	149	13.019	13.009	0.010	99	128551	4.00	4.02	
149 3,3'-Dichlorobenzidine	252	13.986	13.981	0.005	74	106814	4.00	3.80	
151 Bis(2-ethylhexyl) phthalat	149	14.040	14.040	0.000	97	181356	4.00	4.10	
152 Benzo[a]anthracene	228	14.061	14.051	0.010	98	312044	4.00	4.15	
153 Chrysene	228	14.130	14.120	0.010	97	293847	4.00	4.17	
156 Di-n-octyl phthalate	149	15.370	15.359	0.011	100	278022	4.00	3.63	
157 7,12-Dimethylbenz(a)anthra	256	16.219	16.203	0.016	90	127997	4.00	4.01	
158 Benzo[b]fluoranthene	252	16.230	16.225	0.005	98	304513	4.00	4.14	
159 Benzo[k]fluoranthene	252	16.283	16.284	-0.001	99	309524	4.00	4.21	
176 Benzo[e]pyrene	252	16.812	16.796	0.016	0	281151	4.00	4.11	
160 Benzo[a]pyrene	252	16.924	16.914	0.010	78	284194	4.00	4.06	
163 Indeno[1,2,3-cd]pyrene	276	19.286	19.275	0.011	98	320102	4.00	4.00	
164 Dibenz(a,h)anthracene	278	19.318	19.313	0.005	83	269706	4.00	3.98	
165 Benzo[g,h,i]perylene	276	19.895	19.890	0.005	98	281951	4.00	4.05	
S 208 Methyl Phenols,Total	108				0		8.00	8.67	
S 206 Total Cresols	108				0		8.00	8.67	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD4.0i_00008 Amount Added: 1.00 Units: mL

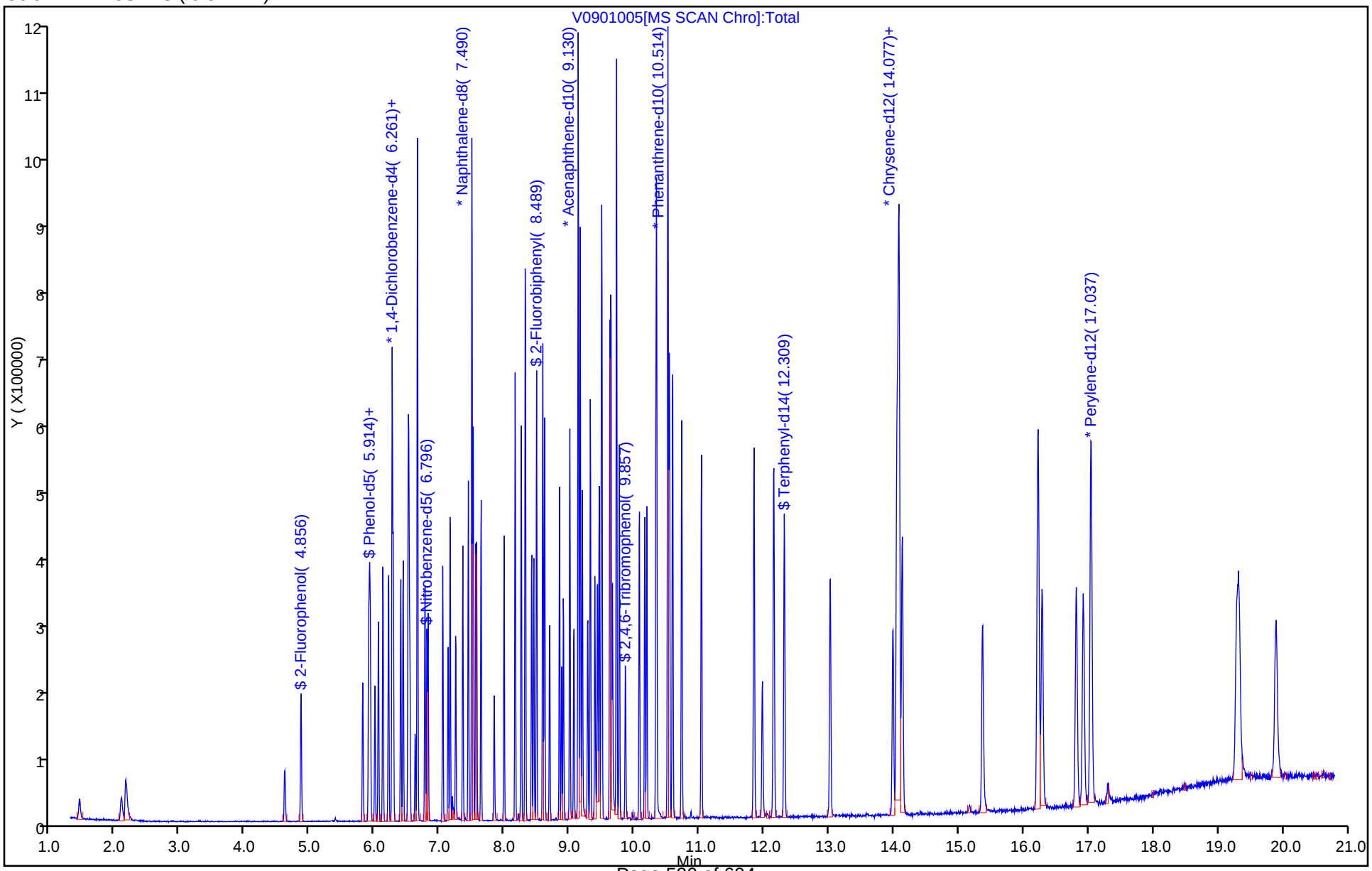
Report Date: 01-Sep-2015 04:26:34 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901005.D

Injection Date:	31-Aug-2015 14:36:30	Instrument ID:	CH731	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_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

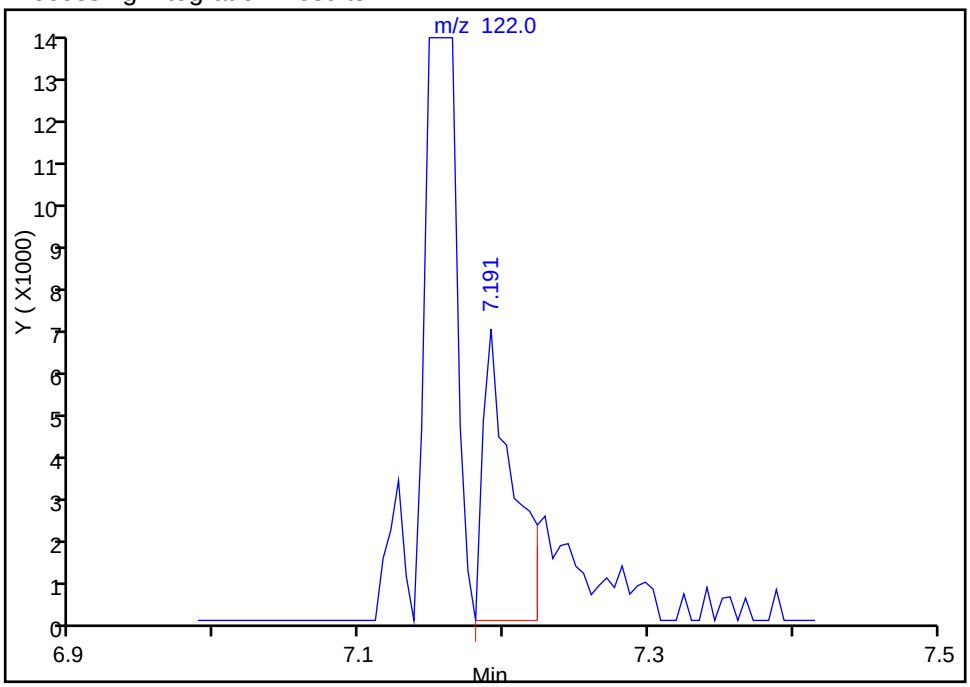
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901005.D
Injection Date: 31-Aug-2015 14:36:30 Instrument ID: CH731
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_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

56 Benzoic acid, CAS: 65-85-0

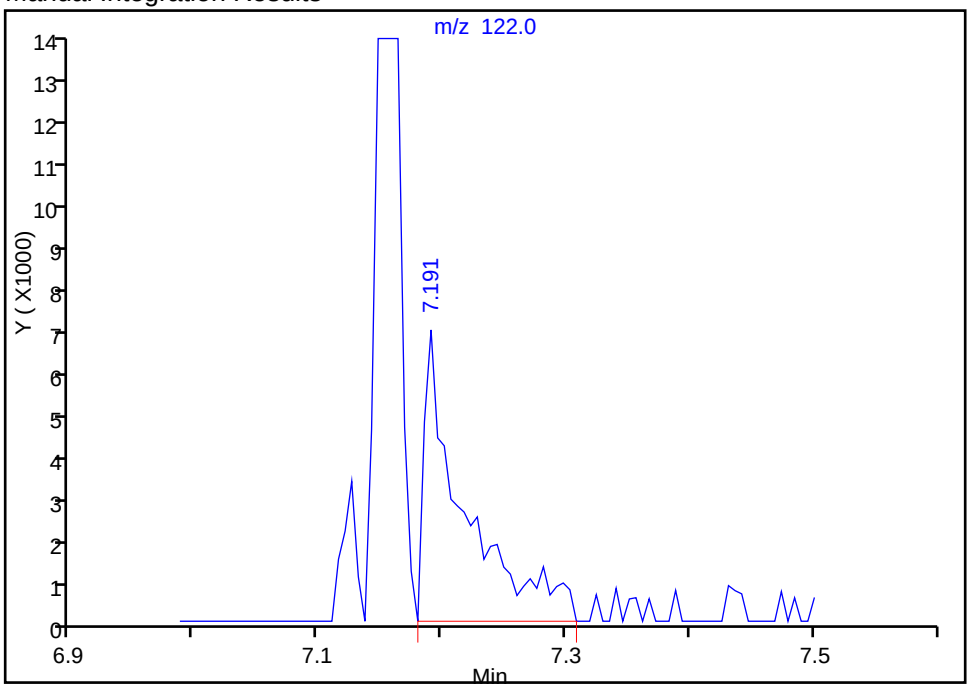
Processing Integration Results

RT: 7.19
Area: 9886
Amount: 1.844735
Amount Units: ng



Manual Integration Results

RT: 7.19
Area: 15551
Amount: 4.564739
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:11:10
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901006.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 31-Aug-2015 15:03:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-006
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:35 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:12:02

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	6.261	6.261	0.000	93	102411	8.00	8.00	
* 2 Naphthalene-d8	136	7.490	7.490	0.000	100	424311	8.00	8.00	
* 3 Acenaphthene-d10	164	9.130	9.130	0.000	93	262115	8.00	8.00	
* 4 Phenanthrene-d10	188	10.508	10.508	0.000	97	479159	8.00	8.00	
* 5 Chrysene-d12	240	14.071	14.071	0.000	97	507170	8.00	8.00	
* 6 Perylene-d12	264	17.031	17.031	0.000	98	481094	8.00	8.00	
$ 7 2-Fluorophenol	112	4.851	4.851	0.000	93	157305	10.0	10.4	
$ 8 Phenol-d5	99	5.898	5.898	0.000	95	212190	10.0	10.8	
$ 9 Nitrobenzene-d5	82	6.795	6.795	0.000	90	216601	10.0	10.5	
$ 10 2-Fluorobiphenyl	172	8.484	8.484	0.000	99	476787	10.0	10.4	
$ 11 2,4,6-Tribromophenol	330	9.856	9.856	0.000	91	64980	10.0	9.79	
$ 12 Terphenyl-d14	244	12.303	12.303	0.000	99	504747	10.0	10.5	
13 1,4-Dioxane	88	1.437	1.437	0.000	92	55565	10.0	10.7	
14 N-Nitrosodimethylamine	74	2.078	2.078	0.000	87	71109	10.0	10.8	
15 Pyridine	79	2.142	2.142	0.000	95	133039	10.0	10.8	
22 Methyl methanesulfonate	80	4.600	4.600	0.000	90	94603	10.0	11.0	
26 Benzaldehyde	77	5.802	5.802	0.000	93	107323	10.0	10.5	
27 Phenol	94	5.909	5.909	0.000	96	230637	10.0	10.7	
28 Aniline	93	5.919	5.919	0.000	98	263241	10.0	10.9	
29 Bis(2-chloroethyl)ether	93	5.994	5.994	0.000	94	157984	10.0	10.6	
31 2-Chlorophenol	128	6.048	6.048	0.000	96	193353	10.0	10.6	
32 n-Decane	43	6.117	6.117	0.000	88	185321	10.0	10.7	
33 1,3-Dichlorobenzene	146	6.202	6.202	0.000	97	218573	10.0	10.5	
34 1,4-Dichlorobenzene	146	6.277	6.277	0.000	93	226954	10.0	10.6	
36 Benzyl alcohol	108	6.389	6.389	0.000	89	116255	10.0	10.7	
37 1,2-Dichlorobenzene	146	6.427	6.427	0.000	95	217421	10.0	10.6	
38 2-Methylphenol	108	6.507	6.507	0.000	96	169780	10.0	10.7	
39 Indene	116	6.518	6.518	0.000	90	325789	10.0	10.6	
40 2,2'-oxybis[1-chloropropan	45	6.534	6.534	0.000	91	237680	10.0	10.9	
41 N-Nitrosopyrrolidine	100	6.614	6.614	0.000	85	75398	10.0	10.4	
44 N-Nitrosodi-n-propylamine	70	6.646	6.646	0.000	70	126465	10.0	10.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.646	6.646	0.000	81	259244	10.0	10.8	
45 4-Methylphenol	108	6.651	6.651	0.000	71	180950	10.0	10.8	
47 Hexachloroethane	117	6.763	6.763	0.000	95	97090	10.0	10.4	
48 Nitrobenzene	77	6.811	6.811	0.000	90	211409	10.0	10.5	
50 Isophorone	82	7.041	7.041	0.000	99	342824	10.0	10.4	
51 2-Nitrophenol	139	7.121	7.121	0.000	98	106487	10.0	10.5	
52 2,4-Dimethylphenol	107	7.153	7.153	0.000	98	209203	10.0	10.6	
56 Benzoic acid	122	7.196	7.196	0.000	81	55532	10.0	8.50	M
55 Bis(2-chloroethoxy)methane	93	7.239	7.239	0.000	97	208359	10.0	10.4	
57 2,4-Dichlorophenol	162	7.346	7.346	0.000	95	175582	10.0	10.4	
59 1,2,4-Trichlorobenzene	180	7.436	7.436	0.000	94	207252	10.0	10.2	
60 Naphthalene	128	7.511	7.511	0.000	97	596566	10.0	10.3	
62 4-Chloroaniline	127	7.549	7.549	0.000	96	252553	10.0	10.6	
63 2,6-Dichlorophenol	162	7.559	7.559	0.000	96	178546	10.0	10.5	
64 Hexachlorobutadiene	225	7.629	7.629	0.000	96	135720	10.0	10.4	
67 Caprolactam	113	7.837	7.837	0.000	78	50427	10.0	9.92	
70 4-Chloro-3-methylphenol	107	7.987	7.987	0.000	96	174727	10.0	10.4	
72 2-Methylnaphthalene	142	8.158	8.158	0.000	91	420716	10.0	10.2	
75 1-Methylnaphthalene	142	8.248	8.248	0.000	92	363823	10.0	10.1	
76 Hexachlorocyclopentadiene	237	8.307	8.307	0.000	97	149399	10.0	10.6	
77 1,2,4,5-Tetrachlorobenzene	216	8.313	8.313	0.000	98	216369	10.0	10.4	
78 2,4,6-Trichlorophenol	196	8.409	8.409	0.000	93	135055	10.0	10.4	
79 2,4,5-Trichlorophenol	196	8.441	8.441	0.000	93	142254	10.0	10.5	
80 1,1'-Biphenyl	154	8.580	8.580	0.000	95	531753	10.0	10.5	
81 2-Chloronaphthalene	162	8.612	8.612	0.000	97	411214	10.0	10.3	
82 2-Nitroaniline	65	8.687	8.687	0.000	82	121138	10.0	10.8	
86 Dimethyl phthalate	163	8.841	8.841	0.000	98	433347	10.0	10.2	
87 1,3-Dinitrobenzene	168	8.873	8.873	0.000	86	67750	10.0	10.0	
88 2,6-Dinitrotoluene	165	8.900	8.900	0.000	94	100319	10.0	10.4	
89 Acenaphthylene	152	8.996	8.996	0.000	98	636764	10.0	10.4	
90 3-Nitroaniline	138	9.060	9.060	0.000	91	109177	10.0	10.6	
91 Acenaphthene	153	9.157	9.157	0.000	90	413191	10.0	10.7	
92 2,4-Dinitrophenol	184	9.157	9.157	0.000	79	110082	20.0	18.5	
93 4-Nitrophenol	109	9.194	9.194	0.000	89	144007	20.0	20.9	
94 2,4-Dinitrotoluene	165	9.274	9.274	0.000	93	135793	10.0	10.5	
95 Dibenzofuran	168	9.317	9.317	0.000	96	598462	10.0	10.4	
97 2,3,5,6-Tetrachlorophenol	232	9.381	9.381	0.000	93	125764	10.0	10.1	
99 2,3,4,6-Tetrachlorophenol	232	9.424	9.424	0.000	72	131643	10.0	10.4	
100 2-Naphthylamine	143	9.450	9.450	0.000	97	415085	10.0	10.6	
101 Diethyl phthalate	149	9.488	9.488	0.000	98	456132	10.0	10.3	
102 Hexadecane	57	9.493	9.493	0.000	95	304348	10.0	10.9	
104 4-Chlorophenyl phenyl ethe	204	9.616	9.616	0.000	93	246798	10.0	10.4	
105 4-Nitroaniline	138	9.627	9.627	0.000	83	114302	10.0	10.5	
106 Fluorene	166	9.632	9.632	0.000	94	497068	10.0	10.5	
108 4,6-Dinitro-2-methylphenol	198	9.659	9.659	0.000	86	165565	20.0	20.3	
109 N-Nitrosodiphenylamine	169	9.718	9.718	0.000	63	692525	20.0	20.8	
61 Azobenzene	77	9.760	9.760	0.000	100	485927	10.0	10.8	
111 1,2-Diphenylhydrazine	77	9.760	9.760	0.000	99	485927	10.0	10.8	
116 4-Bromophenyl phenyl ether	248	10.070	10.070	0.000	67	141647	10.0	10.5	
118 Hexachlorobenzene	284	10.156	10.156	0.000	93	148037	10.0	10.1	
119 Atrazine	200	10.188	10.188	0.000	93	140905	10.0	10.8	
122 Pentachlorophenol	266	10.327	10.327	0.000	91	181579	20.0	18.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.337	10.337	0.000	96	324076	10.0	11.0	
126 Phenanthrene	178	10.535	10.535	0.000	97	751020	10.0	10.3	
128 Anthracene	178	10.583	10.583	0.000	97	764639	10.0	10.5	
130 Carbazole	167	10.722	10.722	0.000	96	669248	10.0	10.4	
132 Di-n-butyl phthalate	149	11.026	11.026	0.000	100	776911	10.0	10.5	
137 Fluoranthene	202	11.838	11.838	0.000	97	808503	10.0	10.4	
138 Benzidine	184	11.967	11.967	0.000	99	339390	10.0	10.6	
139 Pyrene	202	12.143	12.143	0.000	98	842830	10.0	10.8	
144 Butyl benzyl phthalate	149	13.014	13.014	0.000	99	335533	10.0	10.7	
149 3,3'-Dichlorobenzidine	252	13.975	13.975	0.000	74	271127	10.0	9.81	
151 Bis(2-ethylhexyl) phthalat	149	14.034	14.034	0.000	96	466768	10.0	10.7	
152 Benzo[a]anthracene	228	14.055	14.055	0.000	99	769643	10.0	10.4	
153 Chrysene	228	14.125	14.125	0.000	97	721253	10.0	10.4	
156 Di-n-octyl phthalate	149	15.359	15.359	0.000	99	761128	10.0	9.80	
157 7,12-Dimethylbenz(a)anthra	256	16.208	16.208	0.000	90	343910	10.0	10.6	
158 Benzo[b]fluoranthene	252	16.224	16.224	0.000	98	779148	10.0	10.5	
159 Benzo[k]fluoranthene	252	16.278	16.278	0.000	99	794316	10.0	10.7	
176 Benzo[e]pyrene	252	16.807	16.807	0.000	0	723563	10.0	10.4	
160 Benzo[a]pyrene	252	16.913	16.913	0.000	77	739933	10.0	10.4	
163 Indeno[1,2,3-cd]pyrene	276	19.275	19.275	0.000	99	848365	10.0	10.5	
164 Dibenz(a,h)anthracene	278	19.312	19.312	0.000	87	706557	10.0	10.3	
165 Benzo[g,h,i]perylene	276	19.889	19.889	0.000	98	721609	10.0	10.2	
S 208 Methyl Phenols,Total	108				0		20.0	21.6	
S 206 Total Cresols	108				0		20.0	21.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD10i_00124 Amount Added: 1.00 Units: mL

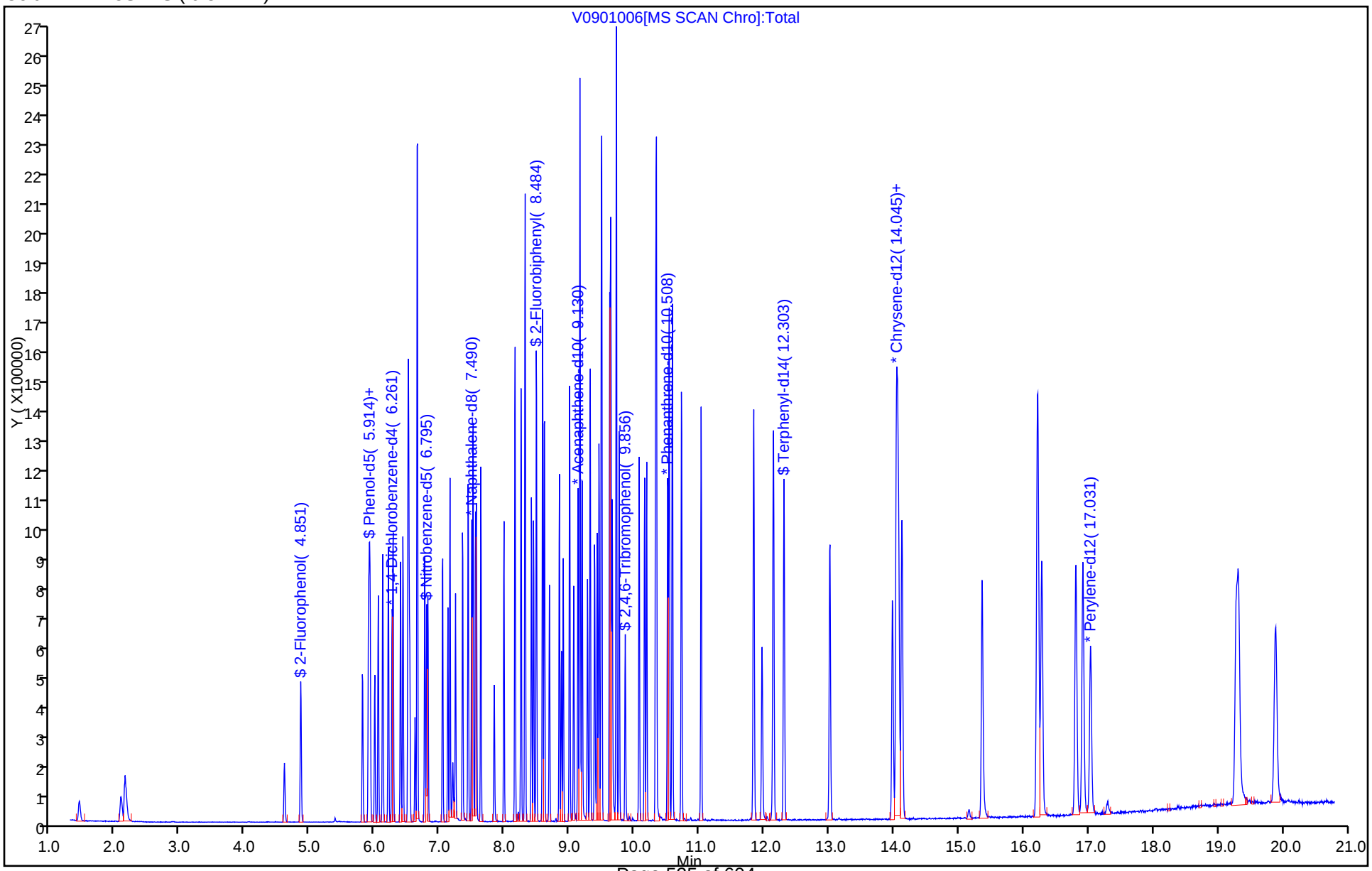
Report Date: 01-Sep-2015 04:26:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901006.D

Injection Date:	31-Aug-2015 15:03:30	Instrument ID:	CH731	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_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

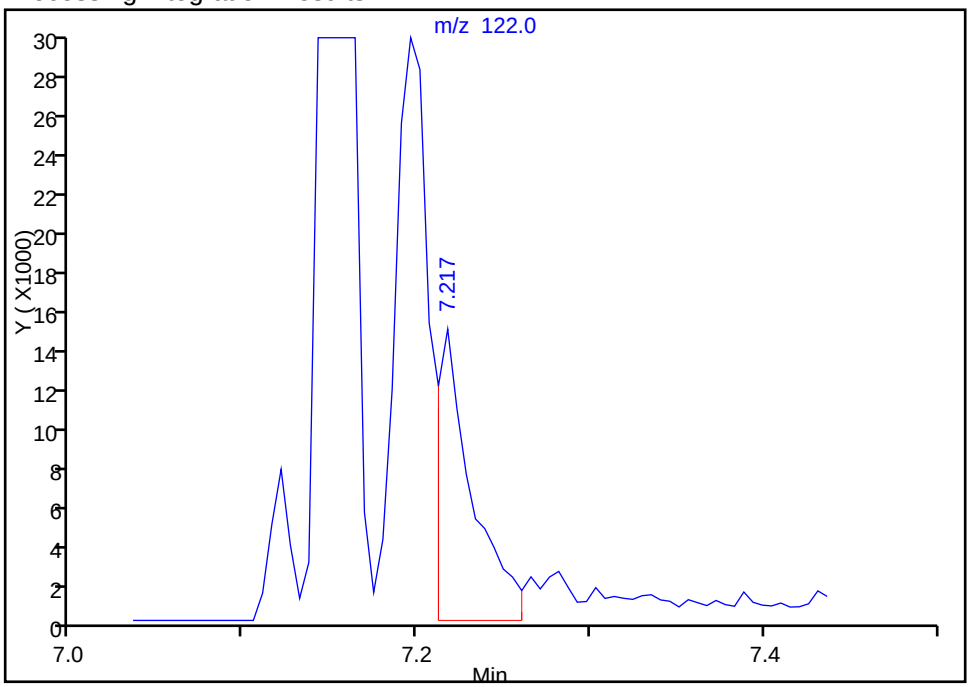
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901006.D
Injection Date: 31-Aug-2015 15:03:30 Instrument ID: CH731
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_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

56 Benzoic acid, CAS: 65-85-0

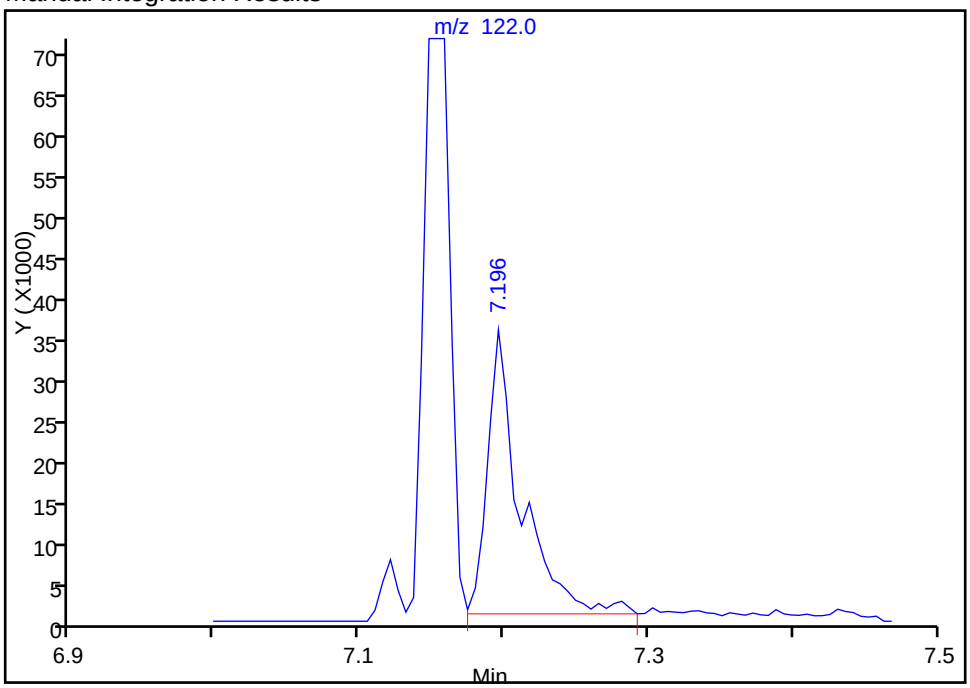
Processing Integration Results

RT: 7.22
Area: 20360
Amount: 3.660887
Amount Units: ng



Manual Integration Results

RT: 7.20
Area: 55532
Amount: 8.496086
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:12:02
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901007.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Aug-2015 15:31:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-007
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:38 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:12:44

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	6.266	6.261	0.005	94	104121	8.00	8.00	
* 2 Naphthalene-d8	136	7.495	7.490	0.005	100	415390	8.00	8.00	
* 3 Acenaphthene-d10	164	9.135	9.130	0.005	92	265063	8.00	8.00	
* 4 Phenanthrene-d10	188	10.519	10.508	0.011	97	493859	8.00	8.00	
* 5 Chrysene-d12	240	14.087	14.071	0.016	97	534907	8.00	8.00	
* 6 Perylene-d12	264	17.047	17.031	0.016	98	517173	8.00	8.00	
$ 7 2-Fluorophenol	112	4.856	4.851	0.005	92	308134	20.0	20.1	
$ 8 Phenol-d5	99	5.903	5.898	0.005	95	408662	20.0	20.4	
$ 9 Nitrobenzene-d5	82	6.800	6.795	0.005	91	416340	20.0	20.6	
$ 10 2-Fluorobiphenyl	172	8.489	8.484	0.005	99	937705	20.0	20.2	
$ 11 2,4,6-Tribromophenol	330	9.861	9.856	0.005	93	147244	20.0	21.5	
$ 12 Terphenyl-d14	244	12.314	12.303	0.011	100	1077468	20.0	21.2	
13 1,4-Dioxane	88	1.432	1.437	-0.005	91	105203	20.0	19.9	
14 N-Nitrosodimethylamine	74	2.078	2.078	0.000	89	144862	20.0	21.6	
15 Pyridine	79	2.137	2.142	-0.005	96	262838	20.0	20.9	
22 Methyl methanesulfonate	80	4.599	4.600	-0.001	89	179632	20.0	20.6	
26 Benzaldehyde	77	5.807	5.802	0.005	93	206688	20.0	19.9	
27 Phenol	94	5.914	5.909	0.005	96	441274	20.0	20.2	
28 Aniline	93	5.924	5.919	0.005	94	507890	20.0	20.6	
29 Bis(2-chloroethyl)ether	93	5.999	5.994	0.005	95	304156	20.0	20.1	
31 2-Chlorophenol	128	6.053	6.048	0.005	96	374694	20.0	20.2	
32 n-Decane	43	6.122	6.117	0.005	89	364217	20.0	20.6	
33 1,3-Dichlorobenzene	146	6.207	6.202	0.005	97	427222	20.0	20.1	
34 1,4-Dichlorobenzene	146	6.282	6.277	0.005	92	432346	20.0	19.9	
36 Benzyl alcohol	108	6.394	6.389	0.005	89	225733	20.0	20.4	
37 1,2-Dichlorobenzene	146	6.432	6.427	0.005	96	417384	20.0	20.0	
38 2-Methylphenol	108	6.512	6.507	0.005	97	326132	20.0	20.3	
39 Indene	116	6.523	6.518	0.005	91	632252	20.0	20.3	
40 2,2'-oxybis[1-chloropropan	45	6.533	6.534	-0.001	90	447186	20.0	20.2	
41 N-Nitrosopyrrolidine	100	6.624	6.614	0.010	86	147255	20.0	20.0	
44 N-Nitrosodi-n-propylamine	70	6.651	6.646	0.005	71	241584	20.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.651	6.646	0.005	81	484244	20.0	19.8	
45 4-Methylphenol	108	6.656	6.651	0.005	70	340648	20.0	20.1	
47 Hexachloroethane	117	6.768	6.763	0.005	92	193936	20.0	20.4	
48 Nitrobenzene	77	6.816	6.811	0.005	89	407395	20.0	20.6	
50 Isophorone	82	7.046	7.041	0.005	99	682023	20.0	21.0	
51 2-Nitrophenol	139	7.126	7.121	0.005	98	210297	20.0	21.1	
52 2,4-Dimethylphenol	107	7.158	7.153	0.005	98	402567	20.0	20.9	
56 Benzoic acid	122	7.217	7.196	0.021	87	164640	20.0	19.6	
55 Bis(2-chloroethoxy)methane	93	7.244	7.239	0.005	97	408194	20.0	20.9	
57 2,4-Dichlorophenol	162	7.356	7.346	0.010	95	346426	20.0	20.9	
59 1,2,4-Trichlorobenzene	180	7.441	7.436	0.005	94	402160	20.0	20.2	
60 Naphthalene	128	7.516	7.511	0.005	97	1159009	20.0	20.5	
62 4-Chloroaniline	127	7.554	7.549	0.005	96	486250	20.0	20.8	
63 2,6-Dichlorophenol	162	7.564	7.559	0.005	97	342783	20.0	20.7	
64 Hexachlorobutadiene	225	7.634	7.629	0.005	96	267889	20.0	21.0	
67 Caprolactam	113	7.847	7.837	0.010	77	101850	20.0	20.5	
70 4-Chloro-3-methylphenol	107	7.992	7.987	0.005	96	344404	20.0	21.0	
72 2-Methylnaphthalene	142	8.163	8.158	0.005	92	816700	20.0	20.3	
75 1-Methylnaphthalene	142	8.253	8.248	0.005	93	711948	20.0	20.1	
76 Hexachlorocyclopentadiene	237	8.312	8.307	0.005	97	302691	20.0	21.2	
77 1,2,4,5-Tetrachlorobenzene	216	8.318	8.313	0.005	98	422134	20.0	20.0	
78 2,4,6-Trichlorophenol	196	8.414	8.409	0.005	92	267261	20.0	20.4	
79 2,4,5-Trichlorophenol	196	8.451	8.441	0.010	93	294500	20.0	21.4	
80 1,1'-Biphenyl	154	8.585	8.580	0.005	95	1040543	20.0	20.3	
81 2-Chloronaphthalene	162	8.617	8.612	0.005	97	808559	20.0	20.1	
82 2-Nitroaniline	65	8.692	8.687	0.006	83	237605	20.0	20.9	
86 Dimethyl phthalate	163	8.846	8.841	0.005	98	870830	20.0	20.3	
87 1,3-Dinitrobenzene	168	8.879	8.873	0.005	86	144305	20.0	21.2	
88 2,6-Dinitrotoluene	165	8.905	8.900	0.005	94	204627	20.0	21.0	
89 Acenaphthylene	152	9.007	8.996	0.011	98	1266666	20.0	20.5	
90 3-Nitroaniline	138	9.065	9.060	0.005	93	223742	20.0	21.5	
91 Acenaphthene	153	9.162	9.157	0.005	89	805607	20.0	20.6	
92 2,4-Dinitrophenol	184	9.162	9.157	0.005	84	249612	40.0	38.5	
93 4-Nitrophenol	109	9.199	9.194	0.005	85	300056	40.0	43.1	
94 2,4-Dinitrotoluene	165	9.279	9.274	0.005	92	280619	20.0	21.5	
95 Dibenzofuran	168	9.322	9.317	0.005	96	1194756	20.0	20.5	
97 2,3,5,6-Tetrachlorophenol	232	9.391	9.381	0.010	93	269363	20.0	21.4	
99 2,3,4,6-Tetrachlorophenol	232	9.429	9.424	0.005	72	272412	20.0	21.2	
100 2-Naphthylamine	143	9.455	9.450	0.005	96	829799	20.0	20.9	
101 Diethyl phthalate	149	9.493	9.488	0.005	98	912137	20.0	20.3	
102 Hexadecane	57	9.498	9.493	0.005	96	582121	20.0	21.4	
104 4-Chlorophenyl phenyl ethe	204	9.621	9.616	0.005	93	492206	20.0	20.5	
105 4-Nitroaniline	138	9.632	9.627	0.005	84	233917	20.0	21.2	
106 Fluorene	166	9.637	9.632	0.005	94	989672	20.0	20.8	
108 4,6-Dinitro-2-methylphenol	198	9.664	9.659	0.005	87	365342	40.0	43.4	
109 N-Nitrosodiphenylamine	169	9.728	9.718	0.010	62	1398657	40.0	40.8	
61 Azobenzene	77	9.771	9.760	0.011	99	965418	20.0	20.8	
111 1,2-Diphenylhydrazine	77	9.771	9.760	0.011	98	965418	20.0	20.8	
116 4-Bromophenyl phenyl ether	248	10.075	10.070	0.005	66	291000	20.0	21.0	
118 Hexachlorobenzene	284	10.161	10.156	0.005	94	315515	20.0	20.9	
119 Atrazine	200	10.193	10.188	0.005	94	290220	20.0	21.6	
122 Pentachlorophenol	266	10.332	10.327	0.005	91	404974	40.0	39.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.342	10.337	0.005	96	634923	20.0	21.2	
126 Phenanthrene	178	10.540	10.535	0.005	97	1547520	20.0	20.6	
128 Anthracene	178	10.588	10.583	0.005	97	1549689	20.0	20.7	
130 Carbazole	167	10.732	10.722	0.010	96	1371651	20.0	20.8	
132 Di-n-butyl phthalate	149	11.031	11.026	0.005	100	1611079	20.0	21.2	
137 Fluoranthene	202	11.843	11.838	0.005	97	1656336	20.0	20.6	
138 Benzidine	184	11.972	11.967	0.005	99	725455	20.0	21.5	
139 Pyrene	202	12.148	12.143	0.005	98	1728923	20.0	21.0	
144 Butyl benzyl phthalate	149	13.019	13.014	0.005	98	708523	20.0	21.4	
149 3,3'-Dichlorobenzidine	252	13.991	13.975	0.016	74	622565	20.0	21.4	
151 Bis(2-ethylhexyl) phthalat	149	14.044	14.034	0.010	96	990284	20.0	21.6	
152 Benzo[a]anthracene	228	14.066	14.055	0.011	99	1598686	20.0	20.5	
153 Chrysene	228	14.135	14.125	0.010	97	1481921	20.0	20.3	
156 Di-n-octyl phthalate	149	15.369	15.359	0.010	99	1669687	20.0	20.0	
157 7,12-Dimethylbenz(a)anthra	256	16.224	16.208	0.016	93	730487	20.0	21.0	
158 Benzo[b]fluoranthene	252	16.240	16.224	0.016	97	1656570	20.0	20.7	
159 Benzo[k]fluoranthene	252	16.293	16.278	0.015	99	1684888	20.0	21.0	
176 Benzo[e]pyrene	252	16.822	16.807	0.015	0	1563201	20.0	21.0	
160 Benzo[a]pyrene	252	16.929	16.913	0.016	77	1575640	20.0	20.7	
163 Indeno[1,2,3-cd]pyrene	276	19.296	19.275	0.021	99	1846211	20.0	21.2	
164 Dibenz(a,h)anthracene	278	19.333	19.312	0.021	88	1567050	20.0	21.2	
165 Benzo[g,h,i]perylene	276	19.905	19.889	0.016	98	1577795	20.0	20.8	
S 208 Methyl Phenols,Total	108				0		40.0	40.3	
S 206 Total Cresols	108				0		40.0	40.3	

Reagents:

SVTAPSTD20i_00007 Amount Added: 1.00 Units: mL

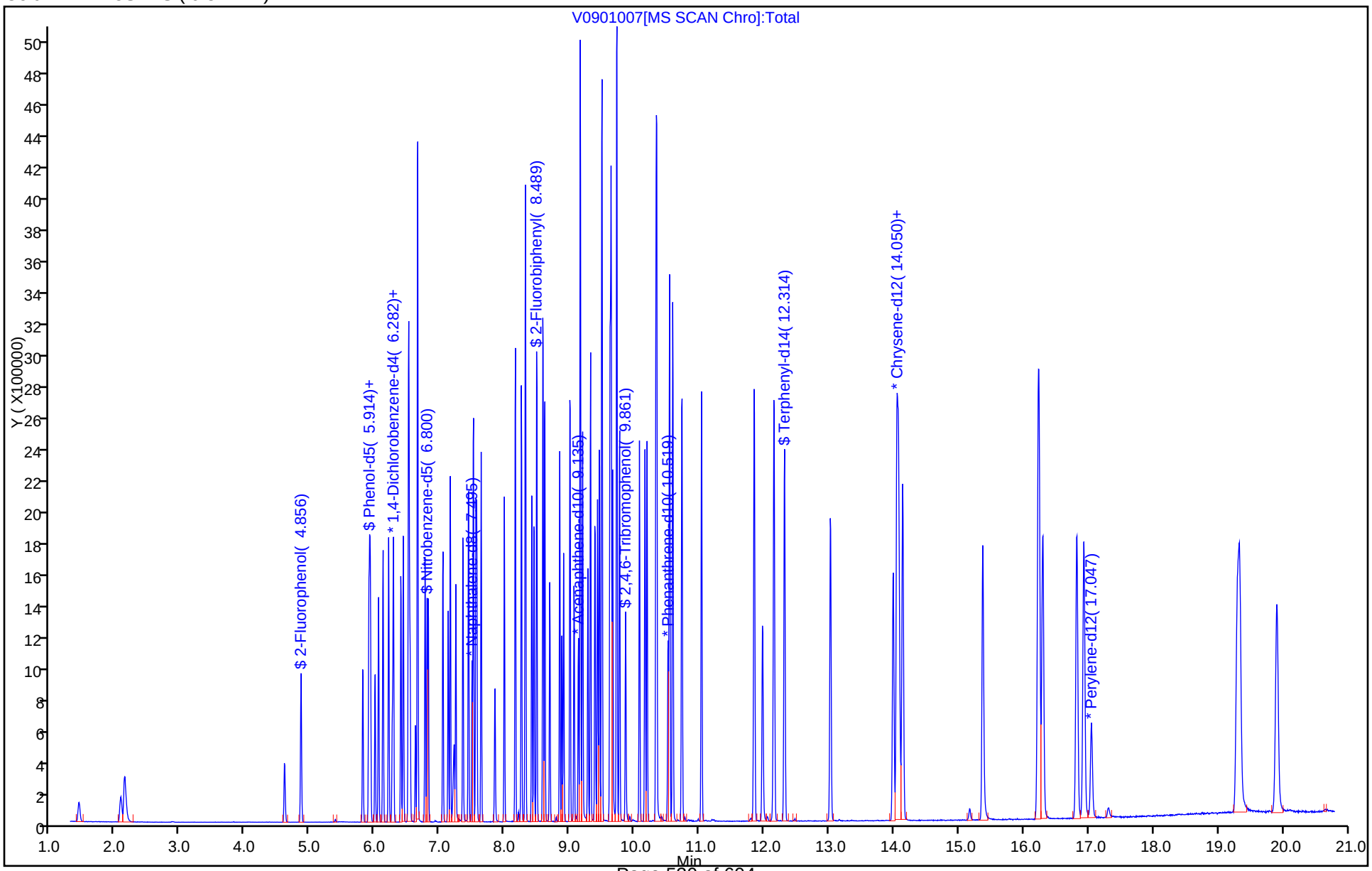
Report Date: 01-Sep-2015 04:26:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901007.D

Injection Date:	31-Aug-2015 15:31:30	Instrument ID:	CH731	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_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-Aug-2015 15:59:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-008
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:41 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:13:59

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	6.256	6.261	-0.005	94	103970	8.00	8.00	
* 2 Naphthalene-d8	136	7.485	7.490	-0.005	100	428923	8.00	8.00	
* 3 Acenaphthene-d10	164	9.125	9.130	-0.005	91	267687	8.00	8.00	
* 4 Phenanthrene-d10	188	10.508	10.508	0.000	97	498920	8.00	8.00	
* 5 Chrysene-d12	240	14.072	14.071	0.001	97	578473	8.00	8.00	
* 6 Perylene-d12	264	17.031	17.031	0.000	98	582677	8.00	8.00	
$ 7 2-Fluorophenol	112	4.851	4.851	0.000	92	601129	40.0	39.3	
$ 8 Phenol-d5	99	5.898	5.898	0.000	95	777332	40.0	38.9	
$ 9 Nitrobenzene-d5	82	6.796	6.795	0.001	90	794610	40.0	38.1	
$ 10 2-Fluorobiphenyl	172	8.484	8.484	0.000	100	1812070	40.0	38.7	
$ 11 2,4,6-Tribromophenol	330	9.857	9.856	0.001	94	298800	40.0	43.2	
$ 12 Terphenyl-d14	244	12.303	12.303	0.000	99	2187918	40.0	39.8	
13 1,4-Dioxane	88	1.427	1.437	-0.010	91	201364	40.0	38.2	
14 N-Nitrosodimethylamine	74	2.073	2.078	-0.005	89	275725	40.0	41.1	
15 Pyridine	79	2.132	2.142	-0.010	96	513191	40.0	40.9	
22 Methyl methanesulfonate	80	4.600	4.600	0.000	89	343206	40.0	39.3	
26 Benzaldehyde	77	5.802	5.802	0.000	94	397070	40.0	38.3	
27 Phenol	94	5.909	5.909	0.000	98	835757	40.0	38.3	
28 Aniline	93	5.919	5.919	0.000	98	961258	40.0	39.1	
29 Bis(2-chloroethyl)ether	93	5.994	5.994	0.000	96	590760	40.0	39.1	
31 2-Chlorophenol	128	6.048	6.048	0.000	96	734589	40.0	39.7	
32 n-Decane	43	6.112	6.117	-0.005	88	678691	40.0	38.5	
33 1,3-Dichlorobenzene	146	6.203	6.202	0.001	97	833025	40.0	39.2	
34 1,4-Dichlorobenzene	146	6.272	6.277	-0.005	93	854038	40.0	39.3	
36 Benzyl alcohol	108	6.390	6.389	0.001	90	437762	40.0	39.5	
37 1,2-Dichlorobenzene	146	6.427	6.427	0.000	96	822563	40.0	39.5	
38 2-Methylphenol	108	6.507	6.507	0.000	97	622346	40.0	38.7	
39 Indene	116	6.512	6.518	-0.006	90	1214617	40.0	39.0	
40 2,2'-oxybis[1-chloropropan	45	6.528	6.534	-0.006	90	825469	40.0	37.3	
41 N-Nitrosopyrrolidine	100	6.619	6.614	0.005	84	285945	40.0	39.0	
44 N-Nitrosodi-n-propylamine	70	6.646	6.646	0.000	69	441214	40.0	37.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.646	6.646	0.000	80	906914	40.0	37.2	
45 4-Methylphenol	108	6.651	6.651	0.000	73	643394	40.0	38.0	
47 Hexachloroethane	117	6.764	6.763	0.001	92	372580	40.0	39.3	
48 Nitrobenzene	77	6.812	6.811	0.001	89	776952	40.0	38.1	
50 Isophorone	82	7.036	7.041	-0.005	99	1277258	40.0	38.2	
51 2-Nitrophenol	139	7.121	7.121	0.000	97	420234	40.0	40.9	
52 2,4-Dimethylphenol	107	7.154	7.153	0.001	98	753151	40.0	37.8	
56 Benzoic acid	122	7.228	7.196	0.032	89	375654	40.0	39.6	
55 Bis(2-chloroethoxy)methane	93	7.239	7.239	0.000	98	770276	40.0	38.2	
57 2,4-Dichlorophenol	162	7.346	7.346	0.000	95	667300	40.0	39.1	
59 1,2,4-Trichlorobenzene	180	7.431	7.436	-0.005	94	794260	40.0	38.6	
60 Naphthalene	128	7.506	7.511	-0.005	97	2218172	40.0	38.0	
62 4-Chloroaniline	127	7.543	7.549	-0.006	96	925530	40.0	38.4	
63 2,6-Dichlorophenol	162	7.560	7.559	0.001	97	665137	40.0	38.9	
64 Hexachlorobutadiene	225	7.629	7.629	0.000	97	498986	40.0	37.9	
67 Caprolactam	113	7.848	7.837	0.011	77	195994	40.0	38.1	
70 4-Chloro-3-methylphenol	107	7.987	7.987	0.000	96	648108	40.0	38.2	
72 2-Methylnaphthalene	142	8.152	8.158	-0.006	92	1592038	40.0	38.3	
75 1-Methylnaphthalene	142	8.249	8.248	0.001	93	1385626	40.0	38.0	
76 Hexachlorocyclopentadiene	237	8.307	8.307	0.000	96	608183	40.0	42.2	
77 1,2,4,5-Tetrachlorobenzene	216	8.313	8.313	0.000	98	821465	40.0	38.6	
78 2,4,6-Trichlorophenol	196	8.409	8.409	0.000	92	529802	40.0	40.0	
79 2,4,5-Trichlorophenol	196	8.441	8.441	0.000	93	556002	40.0	40.0	
80 1,1'-Biphenyl	154	8.580	8.580	0.000	94	2002667	40.0	38.8	
81 2-Chloronaphthalene	162	8.607	8.612	-0.005	96	1554017	40.0	38.3	
82 2-Nitroaniline	65	8.687	8.687	0.001	83	462376	40.0	40.3	
86 Dimethyl phthalate	163	8.842	8.841	0.001	99	1672530	40.0	38.6	
87 1,3-Dinitrobenzene	168	8.874	8.873	0.001	86	283925	40.0	41.2	
88 2,6-Dinitrotoluene	165	8.900	8.900	0.000	95	396407	40.0	40.3	
89 Acenaphthylene	152	8.997	8.996	0.001	98	2416661	40.0	38.8	
90 3-Nitroaniline	138	9.061	9.060	0.001	93	421304	40.0	40.0	
91 Acenaphthene	153	9.157	9.157	0.000	86	1491106	40.0	37.8	
92 2,4-Dinitrophenol	184	9.157	9.157	0.000	69	538395	80.0	79.5	
93 4-Nitrophenol	109	9.194	9.194	0.000	87	574831	80.0	81.7	
94 2,4-Dinitrotoluene	165	9.274	9.274	0.000	93	548279	40.0	41.5	
95 Dibenzofuran	168	9.312	9.317	-0.005	96	2254271	40.0	38.3	
97 2,3,5,6-Tetrachlorophenol	232	9.381	9.381	0.000	93	533477	40.0	42.0	
99 2,3,4,6-Tetrachlorophenol	232	9.424	9.424	0.000	72	531770	40.0	41.0	
100 2-Naphthylamine	143	9.451	9.450	0.001	97	1523242	40.0	38.0	
101 Diethyl phthalate	149	9.488	9.488	0.000	98	1702838	40.0	37.6	
102 Hexadecane	57	9.493	9.493	0.000	96	1028978	40.0	36.6	
104 4-Chlorophenyl phenyl ethe	204	9.616	9.616	0.000	90	956781	40.0	39.4	
105 4-Nitroaniline	138	9.627	9.627	0.000	81	446405	40.0	40.1	
106 Fluorene	166	9.632	9.632	0.000	94	1834343	40.0	38.1	
108 4,6-Dinitro-2-methylphenol	198	9.654	9.659	-0.005	89	755388	80.0	88.8	
109 N-Nitrosodiphenylamine	169	9.718	9.718	0.000	61	2666058	80.0	77.0	
61 Azobenzene	77	9.760	9.760	0.000	99	1794860	40.0	38.3	
111 1,2-Diphenylhydrazine	77	9.760	9.760	0.000	98	1794860	40.0	38.3	
116 4-Bromophenyl phenyl ether	248	10.070	10.070	0.000	65	574987	40.0	41.0	
118 Hexachlorobenzene	284	10.156	10.156	0.000	95	622415	40.0	40.8	
119 Atrazine	200	10.188	10.188	0.000	94	561004	40.0	41.3	
122 Pentachlorophenol	266	10.321	10.327	-0.006	92	829971	80.0	79.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.332	10.337	-0.005	96	1131057	40.0	37.8	
126 Phenanthrene	178	10.530	10.535	-0.005	97	2880228	40.0	37.9	
128 Anthracene	178	10.583	10.583	0.000	96	2933520	40.0	38.7	
130 Carbazole	167	10.722	10.722	0.000	96	2629503	40.0	39.4	
132 Di-n-butyl phthalate	149	11.021	11.026	-0.005	100	3082799	40.0	40.2	
137 Fluoranthene	202	11.833	11.838	-0.005	97	3264797	40.0	40.2	
138 Benzidine	184	11.961	11.967	-0.006	99	1562314	40.0	42.7	
139 Pyrene	202	12.138	12.143	-0.005	98	3379936	40.0	37.9	
144 Butyl benzyl phthalate	149	13.008	13.014	-0.006	98	1451542	40.0	40.5	
149 3,3'-Dichlorobenzidine	252	13.975	13.975	0.000	74	1328092	40.0	42.1	
151 Bis(2-ethylhexyl) phthalat	149	14.029	14.034	-0.005	96	2049564	40.0	41.3	
152 Benzo[a]anthracene	228	14.056	14.055	0.001	98	3279613	40.0	38.9	
153 Chrysene	228	14.125	14.125	0.000	97	3138949	40.0	39.7	
156 Di-n-octyl phthalate	149	15.354	15.359	-0.005	99	3629195	40.0	38.6	
157 7,12-Dimethylbenz(a)anthra	256	16.214	16.208	0.006	91	1601028	40.0	40.8	
158 Benzo[b]fluoranthene	252	16.230	16.224	0.006	98	3629886	40.0	40.2	
159 Benzo[k]fluoranthene	252	16.283	16.278	0.005	99	3569072	40.0	39.6	
176 Benzo[e]pyrene	252	16.807	16.807	0.000	0	3386071	40.0	40.3	
160 Benzo[a]pyrene	252	16.919	16.913	0.006	85	3529029	40.0	41.1	
163 Indeno[1,2,3-cd]pyrene	276	19.285	19.275	0.010	99	4026833	40.0	41.0	
164 Dibenz(a,h)anthracene	278	19.318	19.312	0.006	93	3444565	40.0	41.4	
165 Benzo[g,h,i]perylene	276	19.889	19.889	0.000	99	3440452	40.0	40.2	
S 208 Methyl Phenols,Total	108				0		80.0	76.7	
S 206 Total Cresols	108				0		80.0	76.7	

Reagents:

SVTAPSTD40i_00007 Amount Added: 1.00 Units: mL

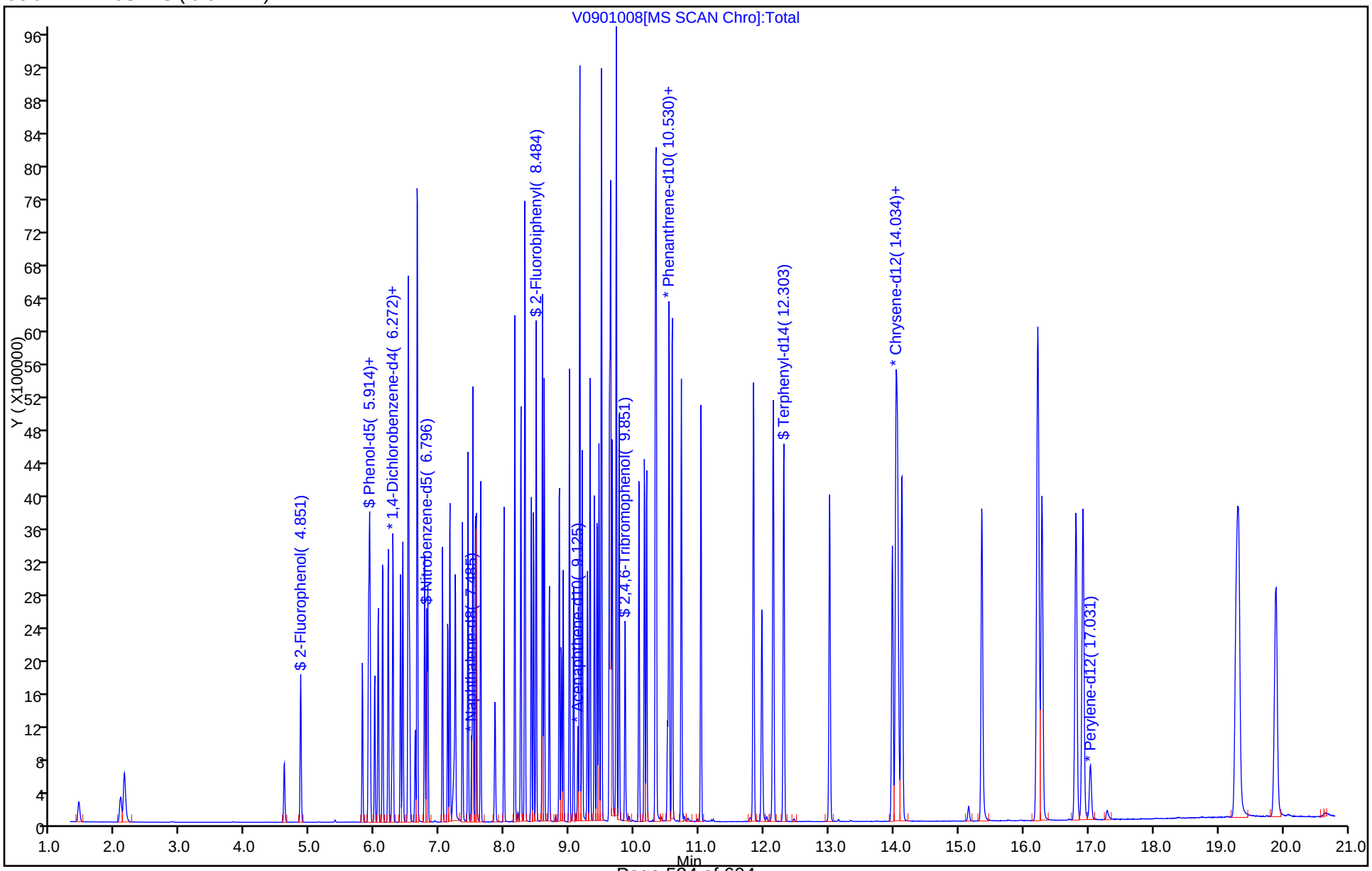
Report Date: 01-Sep-2015 04:26:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901008.D

Injection Date:	31-Aug-2015 15:59:30	Instrument ID:	CH731	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_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 31-Aug-2015 16:27:30 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-009
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:43 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:15:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.259	6.261	-0.002	94	99714	8.00	8.00	
* 2 Naphthalene-d8	136	7.488	7.490	-0.002	100	406271	8.00	8.00	
* 3 Acenaphthene-d10	164	9.128	9.130	-0.002	92	264922	8.00	8.00	
* 4 Phenanthrene-d10	188	10.511	10.508	0.003	97	517551	8.00	8.00	
* 5 Chrysene-d12	240	14.080	14.071	0.009	97	607066	8.00	8.00	
* 6 Perylene-d12	264	17.040	17.031	0.009	98	619503	8.00	8.00	
$ 7 2-Fluorophenol	112	4.854	4.851	0.003	92	838231	60.0	57.1	
$ 8 Phenol-d5	99	5.901	5.898	0.003	96	1070228	60.0	55.8	
$ 9 Nitrobenzene-d5	82	6.799	6.795	0.004	89	1113656	60.0	56.3	
$ 10 2-Fluorobiphenyl	172	8.487	8.484	0.003	99	2610251	60.0	56.4	
$ 11 2,4,6-Tribromophenol	330	9.860	9.856	0.004	94	473316	60.0	66.0	
$ 12 Terphenyl-d14	244	12.306	12.303	0.003	99	3347581	60.0	58.1	
13 1,4-Dioxane	88	1.430	1.437	-0.007	91	279408	60.0	55.2	
14 N-Nitrosodimethylamine	74	2.076	2.078	-0.002	88	379885	60.0	59.1	
15 Pyridine	79	2.130	2.142	-0.012	96	712099	60.0	59.2	
22 Methyl methanesulfonate	80	4.603	4.600	0.003	89	474822	60.0	56.7	
26 Benzaldehyde	77	5.805	5.802	0.003	94	547639	60.0	55.1	
27 Phenol	94	5.917	5.909	0.008	99	1151982	60.0	55.0	
28 Aniline	93	5.923	5.919	0.004	98	1324460	60.0	56.1	
29 Bis(2-chloroethyl)ether	93	5.997	5.994	0.003	97	813920	60.0	56.2	
31 2-Chlorophenol	128	6.051	6.048	0.003	96	999145	60.0	56.4	
32 n-Decane	43	6.115	6.117	-0.002	88	933974	60.0	55.2	
33 1,3-Dichlorobenzene	146	6.206	6.202	0.004	98	1169034	60.0	57.4	
34 1,4-Dichlorobenzene	146	6.275	6.277	-0.002	93	1200818	60.0	57.6	
36 Benzyl alcohol	108	6.393	6.389	0.004	90	611039	60.0	57.5	
37 1,2-Dichlorobenzene	146	6.430	6.427	0.003	96	1128307	60.0	56.6	
38 2-Methylphenol	108	6.510	6.507	0.003	96	854410	60.0	55.4	
39 Indene	116	6.516	6.518	-0.002	90	1679927	60.0	56.2	
40 2,2'-oxybis[1-chloropropan	45	6.532	6.534	-0.002	91	1143395	60.0	53.9	
41 N-Nitrosopyrrolidine	100	6.622	6.614	0.008	85	400584	60.0	56.9	
44 N-Nitrosodi-n-propylamine	70	6.654	6.646	0.008	70	599779	60.0	53.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.649	6.646	0.003	81	1253461	60.0	53.5	
45 4-Methylphenol	108	6.654	6.651	0.003	73	873748	60.0	53.8	
47 Hexachloroethane	117	6.767	6.763	0.004	92	519024	60.0	57.1	
48 Nitrobenzene	77	6.815	6.811	0.004	89	1066255	60.0	55.2	
50 Isophorone	82	7.039	7.041	-0.002	99	1778003	60.0	56.1	
51 2-Nitrophenol	139	7.125	7.121	0.004	98	583637	60.0	60.0	
52 2,4-Dimethylphenol	107	7.157	7.153	0.004	97	1041480	60.0	55.2	
56 Benzoic acid	122	7.247	7.196	0.051	91	594277	60.0	64.2	
55 Bis(2-chloroethoxy)methane	93	7.242	7.239	0.003	99	1064713	60.0	55.7	
57 2,4-Dichlorophenol	162	7.349	7.346	0.003	94	944141	60.0	58.4	
59 1,2,4-Trichlorobenzene	180	7.434	7.436	-0.002	94	1108717	60.0	56.9	
60 Naphthalene	128	7.509	7.511	-0.002	97	3102774	60.0	56.1	
62 4-Chloroaniline	127	7.547	7.549	-0.002	96	1324788	60.0	58.0	
63 2,6-Dichlorophenol	162	7.563	7.559	0.004	97	926626	60.0	57.2	
64 Hexachlorobutadiene	225	7.627	7.629	-0.002	96	725569	60.0	58.2	
67 Caprolactam	113	7.856	7.837	0.019	78	300973	60.0	61.8	
70 4-Chloro-3-methylphenol	107	7.990	7.987	0.003	96	936942	60.0	58.3	
72 2-Methylnaphthalene	142	8.156	8.158	-0.002	93	2232756	60.0	56.7	
75 1-Methylnaphthalene	142	8.252	8.248	0.004	93	1963496	60.0	56.8	
76 Hexachlorocyclopentadiene	237	8.311	8.307	0.004	96	886261	60.0	62.2	
77 1,2,4,5-Tetrachlorobenzene	216	8.316	8.313	0.003	97	1176134	60.0	55.9	
78 2,4,6-Trichlorophenol	196	8.412	8.409	0.003	92	767943	60.0	58.6	
79 2,4,5-Trichlorophenol	196	8.449	8.441	0.008	94	821214	60.0	59.8	
80 1,1'-Biphenyl	154	8.583	8.580	0.003	94	2860874	60.0	55.9	
81 2-Chloronaphthalene	162	8.610	8.612	-0.002	96	2245596	60.0	55.9	
82 2-Nitroaniline	65	8.690	8.687	0.004	84	675895	60.0	59.5	
86 Dimethyl phthalate	163	8.845	8.841	0.004	99	2472869	60.0	57.7	
87 1,3-Dinitrobenzene	168	8.877	8.873	0.004	87	433868	60.0	63.7	
88 2,6-Dinitrotoluene	165	8.904	8.900	0.004	95	592384	60.0	60.9	
89 Acenaphthylene	152	9.000	8.996	0.004	98	3497114	60.0	56.7	
90 3-Nitroaniline	138	9.064	9.060	0.004	93	646266	60.0	62.0	
91 Acenaphthene	153	9.160	9.157	0.003	85	2129611	60.0	54.5	
92 2,4-Dinitrophenol	184	9.160	9.157	0.003	70	863873	120.0	127.3	
93 4-Nitrophenol	109	9.203	9.194	0.009	89	881491	120.0	126.6	
94 2,4-Dinitrotoluene	165	9.277	9.274	0.003	93	826591	60.0	63.3	
95 Dibenzofuran	168	9.315	9.317	-0.002	96	3314307	60.0	57.0	
97 2,3,5,6-Tetrachlorophenol	232	9.384	9.381	0.003	93	803463	60.0	64.0	
99 2,3,4,6-Tetrachlorophenol	232	9.427	9.424	0.003	72	801901	60.0	62.4	
100 2-Naphthylamine	143	9.454	9.450	0.004	97	2285872	60.0	57.7	
101 Diethyl phthalate	149	9.491	9.488	0.003	98	2491639	60.0	55.6	
102 Hexadecane	57	9.496	9.493	0.003	97	1397088	60.0	52.4	
104 4-Chlorophenyl phenyl ethe	204	9.614	9.616	-0.002	92	1404700	60.0	58.4	
105 4-Nitroaniline	138	9.635	9.627	0.008	56	674066	60.0	61.2	
106 Fluorene	166	9.635	9.632	0.003	95	2695516	60.0	56.5	
108 4,6-Dinitro-2-methylphenol	198	9.662	9.659	0.003	90	1188730	120.0	134.7	
109 N-Nitrosodiphenylamine	169	9.721	9.718	0.003	61	3965267	120.0	110.4	
61 Azobenzene	77	9.764	9.760	0.004	99	2591039	60.0	53.4	
111 1,2-Diphenylhydrazine	77	9.764	9.760	0.004	98	2591039	60.0	53.4	
116 4-Bromophenyl phenyl ether	248	10.073	10.070	0.003	64	856180	60.0	58.9	
118 Hexachlorobenzene	284	10.154	10.156	-0.002	95	947897	60.0	59.9	
119 Atrazine	200	10.191	10.188	0.003	94	848278	60.0	60.1	
122 Pentachlorophenol	266	10.325	10.327	-0.002	92	1292579	120.0	119.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.335	10.337	-0.002	96	1541202	60.0	53.8	
126 Phenanthrene	178	10.533	10.535	-0.002	97	4342458	60.0	55.1	
128 Anthracene	178	10.586	10.583	0.003	97	4408878	60.0	56.1	
130 Carbazole	167	10.725	10.722	0.003	96	3955502	60.0	57.1	
132 Di-n-butyl phthalate	149	11.024	11.026	-0.002	100	4709352	60.0	59.2	
137 Fluoranthene	202	11.842	11.838	0.004	97	4990877	60.0	59.3	
138 Benzidine	184	11.970	11.967	0.003	99	2535078	60.0	66.1	
139 Pyrene	202	12.146	12.143	0.003	98	5158428	60.0	55.2	
144 Butyl benzyl phthalate	149	13.012	13.014	-0.002	98	2212652	60.0	58.8	
149 3,3'-Dichlorobenzidine	252	13.984	13.975	0.009	69	2048467	60.0	61.9	
151 Bis(2-ethylhexyl) phthalat	149	14.032	14.034	-0.002	96	3085719	60.0	59.2	
152 Benzo[a]anthracene	228	14.059	14.055	0.004	96	5081417	60.0	57.4	
153 Chrysene	228	14.128	14.125	0.003	94	4792327	60.0	57.8	
156 Di-n-octyl phthalate	149	15.362	15.359	0.003	99	5602751	60.0	56.0	
157 7,12-Dimethylbenz(a)anthra	256	16.222	16.208	0.014	71	2472560	60.0	59.3	
158 Benzo[b]fluoranthene	252	16.238	16.224	0.014	95	5446463	60.0	56.8	
159 Benzo[k]fluoranthene	252	16.297	16.278	0.019	98	5539285	60.0	57.8	
176 Benzo[e]pyrene	252	16.821	16.807	0.014	0	5228496	60.0	58.5	
160 Benzo[a]pyrene	252	16.927	16.913	0.014	73	5413285	60.0	59.3	
163 Indeno[1,2,3-cd]pyrene	276	19.299	19.275	0.024	94	6175786	60.0	59.2	
164 Dibenz(a,h)anthracene	278	19.331	19.312	0.019	59	5337190	60.0	60.4	
165 Benzo[g,h,i]perylene	276	19.908	19.889	0.019	91	5401597	60.0	59.4	
S 208 Methyl Phenols,Total	108				0		120.0	109.2	
S 206 Total Cresols	108				0		120.0	109.2	

Reagents:

SVTAPSTD60i_00007 Amount Added: 1.00 Units: mL

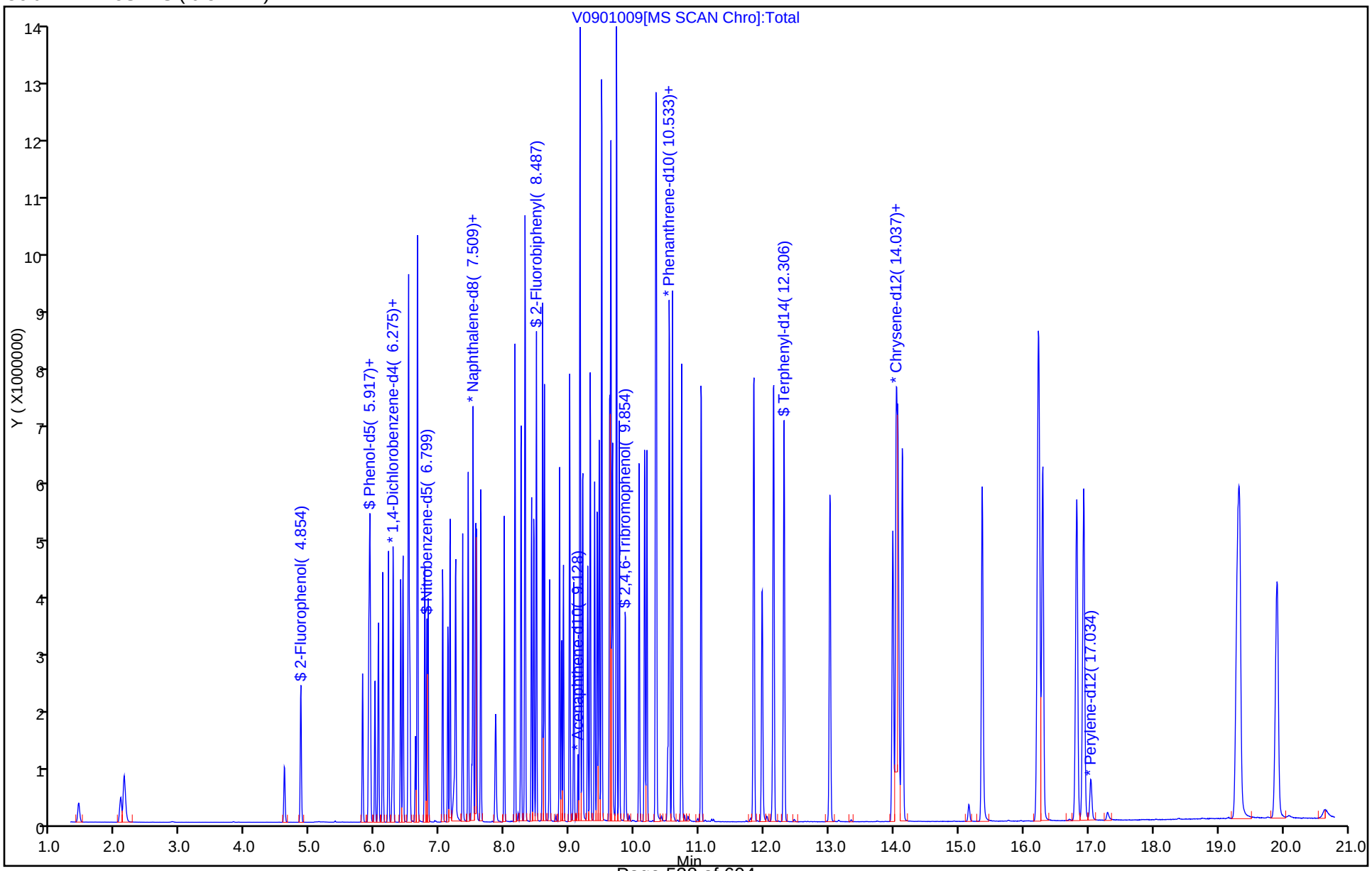
Report Date: 01-Sep-2015 04:26:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901009.D

Injection Date:	31-Aug-2015 16:27:30	Instrument ID:	CH731	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_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 31-Aug-2015 16:55:30 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-010
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:45 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:17:13

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	6.262	6.261	0.001	95	98464	8.00	8.00	
* 2 Naphthalene-d8	136	7.491	7.490	0.001	99	395755	8.00	8.00	
* 3 Acenaphthene-d10	164	9.131	9.130	0.001	91	258714	8.00	8.00	
* 4 Phenanthrene-d10	188	10.515	10.508	0.007	97	511081	8.00	8.00	
* 5 Chrysene-d12	240	14.083	14.071	0.012	97	623884	8.00	8.00	
* 6 Perylene-d12	264	17.037	17.031	0.006	98	632963	8.00	8.00	
$ 7 2-Fluorophenol	112	4.852	4.851	0.001	92	1069551	80.0	73.8	
$ 8 Phenol-d5	99	5.904	5.898	0.006	95	1350534	80.0	71.3	
$ 9 Nitrobenzene-d5	82	6.797	6.795	0.002	89	1430717	80.0	74.3	
$ 10 2-Fluorobiphenyl	172	8.485	8.484	0.001	99	3334934	80.0	73.8	
$ 11 2,4,6-Tribromophenol	330	9.858	9.856	0.002	94	604617	80.0	85.4	
$ 12 Terphenyl-d14	244	12.304	12.303	0.001	99	4425141	80.0	74.7	
13 1,4-Dioxane	88	1.428	1.437	-0.009	91	356294	80.0	71.3	
14 N-Nitrosodimethylamine	74	2.074	2.078	-0.004	88	486190	80.0	76.6	
15 Pyridine	79	2.128	2.142	-0.014	96	895807	80.0	75.4	
22 Methyl methanesulfonate	80	4.601	4.600	0.001	89	603096	80.0	73.0	
26 Benzaldehyde	77	5.803	5.802	0.001	94	690724	80.0	70.3	
27 Phenol	94	5.915	5.909	0.006	98	1439322	80.0	69.6	
28 Aniline	93	5.926	5.919	0.007	98	1668289	80.0	71.6	
29 Bis(2-chloroethyl)ether	93	5.995	5.994	0.001	96	1025923	80.0	71.8	
31 2-Chlorophenol	128	6.049	6.048	0.001	96	1285834	80.0	73.5	
32 n-Decane	43	6.118	6.117	0.001	88	1170998	80.0	70.1	
33 1,3-Dichlorobenzene	146	6.204	6.202	0.002	97	1491482	80.0	74.2	
34 1,4-Dichlorobenzene	146	6.278	6.277	0.001	94	1538522	80.0	74.7	
36 Benzyl alcohol	108	6.396	6.389	0.007	90	774191	80.0	73.8	
37 1,2-Dichlorobenzene	146	6.428	6.427	0.001	96	1461140	80.0	74.2	
38 2-Methylphenol	108	6.513	6.507	0.006	93	1072808	80.0	70.5	
39 Indene	116	6.519	6.518	0.001	90	2137786	80.0	72.5	
40 2,2'-oxybis[1-chloropropan	45	6.529	6.534	-0.005	91	1427446	80.0	68.2	
41 N-Nitrosopyrrolidine	100	6.626	6.614	0.012	85	516581	80.0	74.3	
44 N-Nitrosodi-n-propylamine	70	6.652	6.646	0.006	79	741815	80.0	66.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.652	6.646	0.006	90	1562211	80.0	67.6	
45 4-Methylphenol	108	6.652	6.651	0.001	88	1106901	80.0	69.0	
47 Hexachloroethane	117	6.765	6.763	0.002	91	666391	80.0	74.2	
48 Nitrobenzene	77	6.818	6.811	0.007	89	1349192	80.0	71.7	
50 Isophorone	82	7.042	7.041	0.001	99	2260645	80.0	73.2	
51 2-Nitrophenol	139	7.122	7.121	0.001	97	748083	80.0	78.9	
52 2,4-Dimethylphenol	107	7.154	7.153	0.001	97	1315779	80.0	71.6	
56 Benzoic acid	122	7.251	7.196	0.055	89	705621	80.0	77.5	
55 Bis(2-chloroethoxy)methane	93	7.240	7.239	0.001	99	1360002	80.0	73.0	
57 2,4-Dichlorophenol	162	7.347	7.346	0.001	94	1215699	80.0	77.2	
59 1,2,4-Trichlorobenzene	180	7.432	7.436	-0.004	94	1419941	80.0	74.8	
60 Naphthalene	128	7.507	7.511	-0.004	97	3961496	80.0	73.5	
62 4-Chloroaniline	127	7.550	7.549	0.001	96	1691471	80.0	76.1	
63 2,6-Dichlorophenol	162	7.560	7.559	0.001	97	1189347	80.0	75.3	
64 Hexachlorobutadiene	225	7.630	7.629	0.001	96	932690	80.0	76.9	
67 Caprolactam	113	7.865	7.837	0.028	79	390460	80.0	82.4	
70 4-Chloro-3-methylphenol	107	7.993	7.987	0.006	96	1193205	80.0	76.3	
72 2-Methylnaphthalene	142	8.153	8.158	-0.005	92	2845722	80.0	74.2	
75 1-Methylnaphthalene	142	8.250	8.248	0.002	93	2510891	80.0	74.5	
76 Hexachlorocyclopentadiene	237	8.308	8.307	0.001	96	1135006	80.0	81.5	
77 1,2,4,5-Tetrachlorobenzene	216	8.314	8.313	0.001	97	1486780	80.0	72.3	
78 2,4,6-Trichlorophenol	196	8.410	8.409	0.001	92	1010572	80.0	79.0	
79 2,4,5-Trichlorophenol	196	8.447	8.441	0.006	94	1060563	80.0	79.0	
80 1,1'-Biphenyl	154	8.581	8.580	0.001	93	3692898	80.0	73.9	
81 2-Chloronaphthalene	162	8.613	8.612	0.001	96	2836533	80.0	72.3	
82 2-Nitroaniline	65	8.688	8.687	0.002	84	856991	80.0	77.3	
86 Dimethyl phthalate	163	8.843	8.841	0.002	99	3193164	80.0	76.3	
87 1,3-Dinitrobenzene	168	8.875	8.873	0.002	87	563184	80.0	84.6	
88 2,6-Dinitrotoluene	165	8.901	8.900	0.001	96	774781	80.0	81.5	
89 Acenaphthylene	152	8.998	8.996	0.002	98	4484129	80.0	74.4	
90 3-Nitroaniline	138	9.067	9.060	0.007	94	831142	80.0	81.7	
91 Acenaphthene	153	9.158	9.157	0.001	85	2705975	80.0	70.9	
92 2,4-Dinitrophenol	184	9.158	9.157	0.001	70	1151263	160.0	172.8	
93 4-Nitrophenol	109	9.206	9.194	0.012	89	1135055	160.0	166.9	
94 2,4-Dinitrotoluene	165	9.281	9.274	0.007	94	1086532	80.0	85.1	
95 Dibenzofuran	168	9.318	9.317	0.001	96	4210142	80.0	74.1	
97 2,3,5,6-Tetrachlorophenol	232	9.388	9.381	0.007	93	1064721	80.0	86.8	
99 2,3,4,6-Tetrachlorophenol	232	9.425	9.424	0.001	71	1034946	80.0	82.5	
100 2-Naphthylamine	143	9.457	9.450	0.007	97	2904871	80.0	75.0	
101 Diethyl phthalate	149	9.494	9.488	0.006	98	3193948	80.0	72.9	
102 Hexadecane	57	9.494	9.493	0.001	96	1705323	80.0	65.7	
104 4-Chlorophenyl phenyl ethe	204	9.617	9.616	0.001	90	1819749	80.0	77.5	
105 4-Nitroaniline	138	9.639	9.627	0.012	82	881666	80.0	82.0	
106 Fluorene	166	9.633	9.632	0.001	96	3469462	80.0	74.5	
108 4,6-Dinitro-2-methylphenol	198	9.665	9.659	0.006	91	1577783	160.0	181.1	
109 N-Nitrosodiphenylamine	169	9.724	9.718	0.006	60	5134418	160.0	144.7	
61 Azobenzene	77	9.767	9.760	0.007	98	3287555	80.0	68.6	
111 1,2-Diphenylhydrazine	77	9.767	9.760	0.007	97	3287555	80.0	68.6	
116 4-Bromophenyl phenyl ether	248	10.071	10.070	0.001	64	1113159	80.0	77.5	
118 Hexachlorobenzene	284	10.157	10.156	0.001	96	1244142	80.0	79.6	
119 Atrazine	200	10.194	10.188	0.006	95	1098657	80.0	78.9	
122 Pentachlorophenol	266	10.328	10.327	0.001	93	1697903	160.0	158.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.338	10.337	0.001	97	1853282	80.0	65.5	
126 Phenanthrene	178	10.536	10.535	0.001	97	5640236	80.0	72.5	
128 Anthracene	178	10.584	10.583	0.001	96	5748524	80.0	74.0	
130 Carbazole	167	10.728	10.722	0.006	96	5117901	80.0	74.9	
132 Di-n-butyl phthalate	149	11.028	11.026	0.002	100	6102278	80.0	77.7	
137 Fluoranthene	202	11.840	11.838	0.002	97	6477904	80.0	78.0	
138 Benzidine	184	11.968	11.967	0.001	99	3407934	80.0	86.4	
139 Pyrene	202	12.144	12.143	0.001	98	6781286	80.0	70.6	
144 Butyl benzyl phthalate	149	13.015	13.014	0.001	97	2909727	80.0	75.3	
149 3,3'-Dichlorobenzidine	252	13.987	13.975	0.012	65	2760473	80.0	81.2	
151 Bis(2-ethylhexyl) phthalat	149	14.035	14.034	0.001	95	4027626	80.0	75.2	
152 Benzo[a]anthracene	228	14.062	14.055	0.007	96	6802828	80.0	74.7	
153 Chrysene	228	14.131	14.125	0.006	93	6394304	80.0	75.0	
156 Di-n-octyl phthalate	149	15.365	15.359	0.006	99	7419754	80.0	72.6	
157 7,12-Dimethylbenz(a)anthra	256	16.231	16.208	0.023	68	3354970	80.0	78.7	
158 Benzo[b]fluoranthene	252	16.247	16.224	0.023	92	7677405	80.0	78.3	
159 Benzo[k]fluoranthene	252	16.300	16.278	0.022	98	7151269	80.0	73.0	
176 Benzo[e]pyrene	252	16.824	16.807	0.017	0	6938914	80.0	76.0	
160 Benzo[a]pyrene	252	16.931	16.913	0.018	73	7225435	80.0	77.4	
163 Indeno[1,2,3-cd]pyrene	276	19.303	19.275	0.027	94	8349705	80.0	78.3	
164 Dibenz(a,h)anthracene	278	19.335	19.312	0.023	67	7188461	80.0	79.6	
165 Benzo[g,h,i]perylene	276	19.917	19.889	0.028	91	7315071	80.0	78.8	
S 208 Methyl Phenols,Total	108				0		160.0	139.4	
S 206 Total Cresols	108				0		160.0	139.4	

Reagents:

SVTAPSTD80i_00007 Amount Added: 1.00 Units: mL

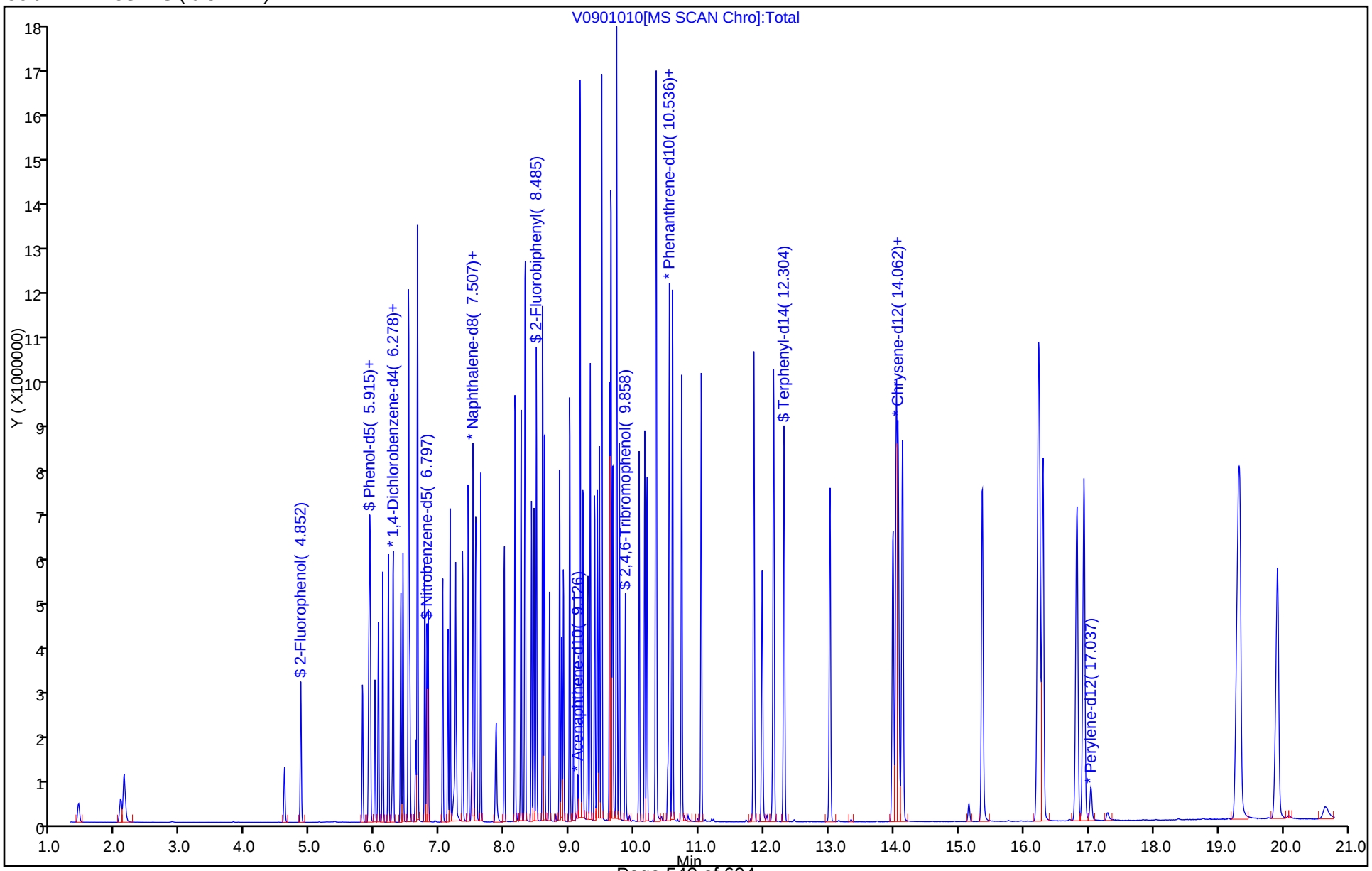
Report Date: 01-Sep-2015 04:26:46 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Injection Date:	31-Aug-2015 16:55:30	Instrument ID:	CH731	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_CH731	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.: 180-47935-1

SDG No.:

Lab Sample ID: ICV 180-152241/11 Calibration Date: 08/31/2015 17:22

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V0901011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4059	0.3788	0.0100	9.33	10.0	-6.7	30.0
N-Nitrosodimethylamine	Ave	0.5156	0.4381	0.0100	8.50	10.0	-15.0	30.0
Pyridine	Ave	0.9650	0.9491	0.0100	9.84	10.0	-1.6	30.0
Benzaldehyde	Ave	0.7981	0.9800	0.0100	12.3	10.0	22.8	30.0
Phenol	Ave	1.679	1.604	0.8000	9.55	10.0	-4.5	30.0
Aniline	Ave	1.894	1.799	0.0100	9.50	10.0	-5.0	30.0
Bis(2-chloroethyl)ether	Ave	1.161	1.102	0.7000	9.49	10.0	-5.1	30.0
2-Chlorophenol	Ave	1.422	1.373	0.8000	9.66	10.0	-3.4	30.0
n-Decane	Ave	1.358	1.249		9.20	10.0	-8.0	30.0
1,3-Dichlorobenzene	Ave	1.633	1.551	0.0100	9.50	10.0	-5.0	30.0
1,4-Dichlorobenzene	Ave	1.673	1.590	0.0100	9.50	10.0	-5.0	30.0
Benzyl alcohol	Ave	0.8520	0.8132	0.0100	9.54	10.0	-4.6	30.0
1,2-Dichlorobenzene	Ave	1.600	1.507	0.0100	9.42	10.0	-5.8	30.0
2-Methylphenol	Ave	1.237	1.212	0.7000	9.79	10.0	-2.1	30.0
Indene	Ave	2.396	2.200	0.0100	9.18	10.0	-8.2	30.0
2,2'-oxybis[1-chloropropane]	Ave	1.702	1.610	0.0100	9.46	10.0	-5.4	30.0
Acetophenone	Ave	1.878	1.753	0.0100	9.33	10.0	-6.7	30.0
N-Nitrosodi-n-propylamine	Ave	0.9087	0.8539	0.5000	9.40	10.0	-6.0	30.0
Methylphenol, 3 & 4	Ave	1.304	1.234	0.6000	9.46	10.0	-5.4	30.0
Hexachloroethane	Ave	0.7293	0.6804	0.3000	9.33	10.0	-6.7	30.0
Nitrobenzene	Ave	0.3804	0.3703	0.2000	9.73	10.0	-2.7	30.0
Isophorone	Ave	0.6240	0.6182	0.4000	9.91	10.0	-0.9	30.0
2-Nitrophenol	Ave	0.1917	0.1915	0.1000	9.99	10.0	-0.1	30.0
2,4-Dimethylphenol	Ave	0.3716	0.3540	0.2000	9.52	10.0	-4.8	30.0
Benzoic acid	Lin1		0.1601	0.0100	9.88	10.0	-1.2	30.0
Bis(2-chloroethoxy)methane	Ave	0.3765	0.3642	0.3000	9.67	10.0	-3.3	30.0
2,4-Dichlorophenol	Ave	0.3185	0.3112	0.2000	9.77	10.0	-2.3	30.0
1,2,4-Trichlorobenzene	Ave	0.3838	0.3717	0.0100	9.69	10.0	-3.1	30.0
Naphthalene	Ave	1.089	1.065	0.7000	9.78	10.0	-2.2	30.0
4-Chloroaniline	Ave	0.4495	0.4290	0.0100	9.54	10.0	-4.6	30.0
2,6-Dichlorophenol	Ave	0.3193	0.3152	0.0100	9.87	10.0	-1.3	30.0
Hexachlorobutadiene	Ave	0.2453	0.2391	0.0100	9.75	10.0	-2.5	30.0
Caprolactam	Ave	0.0958	0.0895	0.0100	9.34	10.0	-6.6	30.0
4-Chloro-3-methylphenol	Ave	0.3163	0.3085	0.2000	9.75	10.0	-2.5	30.0
2-Methylnaphthalene	Ave	0.7752	0.7215	0.4000	9.31	10.0	-6.9	30.0
1-Methylnaphthalene	Ave	0.6809	0.6784	0.0100	9.96	10.0	-0.4	30.0
Hexachlorocyclopentadiene	Ave	0.4305	0.4389	0.0500	10.2	10.0	1.9	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6358	0.6124	0.0100	9.63	10.0	-3.7	30.0
2,4,6-Trichlorophenol	Ave	0.3956	0.3956	0.2000	10.0	10.0	-0.0	30.0
2,4,5-Trichlorophenol	Ave	0.4149	0.4173	0.2000	10.1	10.0	0.6	30.0
1,1'-Biphenyl	Ave	1.544	1.483	0.0100	9.60	10.0	-4.0	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: ICV 180-152241/11 Calibration Date: 08/31/2015 17:22

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V0901011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.213	1.168	0.8000	9.63	10.0	-3.7	30.0
2-Nitroaniline	Ave	0.3429	0.3395	0.0100	9.90	10.0	-1.0	30.0
Dimethyl phthalate	Ave	1.294	1.228	0.0100	9.49	10.0	-5.1	30.0
1,3-Dinitrobenzene	Ave	0.2058	0.1960	0.0100	9.52	10.0	-4.8	30.0
2,6-Dinitrotoluene	Ave	0.2938	0.2907	0.2000	9.89	10.0	-1.1	30.0
Acenaphthylene	Ave	1.863	1.723	0.9000	9.25	10.0	-7.5	30.0
3-Nitroaniline	Ave	0.3146	0.2992	0.0100	9.51	10.0	-4.9	30.0
2,4-Dinitrophenol	Lin2		0.1808	0.0100	18.5	20.0	-7.3	30.0
Acenaphthene	Ave	1.180	1.155	0.9000	9.79	10.0	-2.1	30.0
4-Nitrophenol	Ave	0.2103	0.2035	0.0100	19.4	20.0	-3.2	30.0
2,4-Dinitrotoluene	Ave	0.3946	0.3873	0.2000	9.81	10.0	-1.9	30.0
Dibenzofuran	Ave	1.757	1.659	0.8000	9.44	10.0	-5.6	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3880	0.3584	0.0100	9.24	10.0	-7.6	30.0
Diethyl phthalate	Ave	1.354	1.246	0.0100	9.21	10.0	-7.9	30.0
Hexadecane	Ave	0.5246	0.5164		9.84	10.0	-1.6	30.0
4-Chlorophenyl phenyl ether	Ave	0.7262	0.6870	0.4000	9.46	10.0	-5.4	30.0
4-Nitroaniline	Ave	0.3326	0.3244	0.0100	9.75	10.0	-2.5	30.0
Fluorene	Ave	1.440	1.362	0.9000	9.46	10.0	-5.4	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1364	0.1438	0.0100	21.1	20.0	5.5	30.0
N-Nitrosodiphenylamine	Ave	0.5553	0.5464	0.0100	19.7	20.0	-1.6	30.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7505	0.7786	0.0100	10.4	10.0	3.8	30.0
4-Bromophenyl phenyl ether	Ave	0.2248	0.2350	0.1000	10.5	10.0	4.5	30.0
Hexachlorobenzene	Ave	0.2447	0.2485	0.1000	10.2	10.0	1.5	30.0
Atrazine	Ave	0.2181	0.2147	0.0100	9.85	10.0	-1.5	30.0
Pentachlorophenol	Ave	0.1676	0.1678	0.0500	20.0	20.0	0.2	30.0
n-Octadecane	Ave	2.300	2.131		9.27	10.0	-7.3	30.0
Phenanthrene	Ave	1.218	1.146	0.7000	9.41	10.0	-5.9	30.0
Anthracene	Ave	1.216	1.192	0.7000	9.81	10.0	-1.9	30.0
Carbazole	Ave	1.070	1.027	0.0100	9.60	10.0	-4.0	30.0
Di-n-butyl phthalate	Ave	1.230	1.223	0.0100	9.95	10.0	-0.5	30.0
Fluoranthene	Ave	1.301	1.242	0.6000	9.55	10.0	-4.5	30.0
Benzidine	Ave	0.5055	0.6447	0.0100	12.8	10.0	27.5	30.0
Pyrene	Ave	1.232	1.180	0.6000	9.58	10.0	-4.2	30.0
Butyl benzyl phthalate	Ave	0.4956	0.5035	0.0100	10.2	10.0	1.6	30.0
3,3'-Dichlorobenzidine	Ave	0.4358	0.4287	0.0100	9.84	10.0	-1.6	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.6866	0.6881	0.0100	10.0	10.0	0.2	30.0
Benzo[a]anthracene	Ave	1.167	1.175	0.8000	10.1	10.0	0.7	30.0
Chrysene	Ave	1.093	1.093	0.7000	10.0	10.0	0.0	30.0
Di-n-octyl phthalate	Ave	1.291	1.237	0.0100	9.58	10.0	-4.2	30.0
Benzo[b]fluoranthene	Ave	1.239	1.194	0.7000	9.63	10.0	-3.7	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: ICV 180-152241/11 Calibration Date: 08/31/2015 17:22

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V0901011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[k]fluoranthene	Ave	1.238	1.243	0.7000	10.0	10.0	0.4	30.0
Benzo[a]pyrene	Ave	1.180	1.166	0.7000	9.89	10.0	-1.1	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.348	1.368	0.5000	10.2	10.0	1.5	30.0
Dibenz(a,h)anthracene	Ave	1.141	1.184	0.4000	10.4	10.0	3.8	30.0
Benzo[g,h,i]perylene	Ave	1.174	1.206	0.5000	10.3	10.0	2.8	30.0
2-Fluorophenol (Surr)	Ave	1.178	1.149		9.75	10.0	-2.5	30.0
Phenol-d5 (Surr)	Ave	1.538	1.529		9.94	10.0	-0.6	30.0
Nitrobenzene-d5 (Surr)	Ave	0.3892	0.3989		10.2	10.0	2.5	30.0
2-Fluorobiphenyl	Ave	1.398	1.417		10.1	10.0	1.4	30.0
2,4,6-Tribromophenol (Surr)	Ave	0.1109	0.1229	0.0100	11.1	10.0	10.8	30.0
Terphenyl-d14 (Surr)	Ave	0.7597	0.8753		11.5	10.0	15.2	30.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901011.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 31-Aug-2015 17:22:30 ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-011
Operator ID: 003200 Instrument ID: CH731
Sublist:

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:45 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:24:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.261	6.261	0.000	94	101132	8.00	8.00	
* 2 Naphthalene-d8	136	7.484	7.490	-0.006	100	398254	8.00	8.00	
* 3 Acenaphthene-d10	164	9.124	9.130	-0.006	91	251109	8.00	8.00	
* 4 Phenanthrene-d10	188	10.508	10.508	0.000	97	446658	8.00	8.00	
* 5 Chrysene-d12	240	14.071	14.071	0.000	97	478049	8.00	8.00	
* 6 Perylene-d12	264	17.031	17.031	0.000	98	460156	8.00	8.00	
$ 7 2-Fluorophenol	112	4.851	4.851	0.000	92	290391	20.0	19.5	
$ 8 Phenol-d5	99	5.898	5.898	0.000	95	386516	20.0	19.9	
$ 9 Nitrobenzene-d5	82	6.795	6.795	0.000	90	397130	20.0	20.5	
$ 10 2-Fluorobiphenyl	172	8.483	8.484	-0.001	100	889331	20.0	20.3	
$ 11 2,4,6-Tribromophenol	330	9.856	9.856	0.000	94	137211	20.0	22.2	
$ 12 Terphenyl-d14	244	12.303	12.303	0.000	99	1046072	20.0	23.0	
13 1,4-Dioxane	88	1.437	1.437	0.000	90	95770	20.0	18.7	
14 N-Nitrosodimethylamine	74	2.084	2.078	0.006	87	110754	20.0	17.0	
15 Pyridine	79	2.137	2.142	-0.005	96	239966	20.0	19.7	
26 Benzaldehyde	77	5.802	5.802	0.000	94	247767	20.0	24.6	
27 Phenol	94	5.908	5.909	-0.001	96	405527	20.0	19.1	
28 Aniline	93	5.919	5.919	0.000	98	454939	20.0	19.0	
29 Bis(2-chloroethyl)ether	93	5.994	5.994	0.000	96	278635	20.0	19.0	
31 2-Chlorophenol	128	6.047	6.048	-0.001	96	347201	20.0	19.3	
32 n-Decane	43	6.117	6.117	0.000	88	315706	20.0	18.4	
33 1,3-Dichlorobenzene	146	6.202	6.202	0.000	97	392229	20.0	19.0	
34 1,4-Dichlorobenzene	146	6.277	6.277	0.000	93	402081	20.0	19.0	
36 Benzyl alcohol	108	6.389	6.389	0.000	90	205601	20.0	19.1	
37 1,2-Dichlorobenzene	146	6.427	6.427	0.000	96	380990	20.0	18.8	
38 2-Methylphenol	108	6.501	6.507	-0.006	97	306312	20.0	19.6	
39 Indene	116	6.512	6.518	-0.006	91	556245	20.0	18.4	
40 2,2'-oxybis[1-chloropropan	45	6.528	6.534	-0.006	89	407012	20.0	18.9	
44 N-Nitrosodi-n-propylamine	70	6.646	6.646	0.000	70	215894	20.0	18.8	
43 Acetophenone	105	6.646	6.646	0.000	83	443105	20.0	18.7	
45 4-Methylphenol	108	6.651	6.651	0.000	91	311936	20.0	18.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
47 Hexachloroethane	117	6.763	6.763	0.000	92	172026	20.0	18.7	
48 Nitrobenzene	77	6.811	6.811	0.000	89	368652	20.0	19.5	
50 Isophorone	82	7.036	7.041	-0.005	99	615467	20.0	19.8	
51 2-Nitrophenol	139	7.121	7.121	0.000	98	190648	20.0	20.0	
52 2,4-Dimethylphenol	107	7.153	7.153	0.000	98	352403	20.0	19.0	
56 Benzoic acid	122	7.207	7.196	0.011	89	159354	20.0	19.8	
55 Bis(2-chloroethoxy)methane	93	7.239	7.239	0.000	97	362580	20.0	19.3	
57 2,4-Dichlorophenol	162	7.346	7.346	0.000	95	309790	20.0	19.5	
59 1,2,4-Trichlorobenzene	180	7.431	7.436	-0.005	93	370077	20.0	19.4	
60 Naphthalene	128	7.506	7.511	-0.005	97	1060252	20.0	19.6	
62 4-Chloroaniline	127	7.543	7.549	-0.006	96	427106	20.0	19.1	
63 2,6-Dichlorophenol	162	7.559	7.559	0.000	97	313776	20.0	19.7	
64 Hexachlorobutadiene	225	7.629	7.629	0.000	97	238095	20.0	19.5	
67 Caprolactam	113	7.837	7.837	0.000	77	89071	20.0	18.7	
70 4-Chloro-3-methylphenol	107	7.981	7.987	-0.006	96	307189	20.0	19.5	
72 2-Methylnaphthalene	142	8.152	8.158	-0.006	92	718340	20.0	18.6	
75 1-Methylnaphthalene	142	8.248	8.248	0.000	92	675466	20.0	19.9	
76 Hexachlorocyclopentadiene	237	8.307	8.307	0.000	97	275498	20.0	20.4	
77 1,2,4,5-Tetrachlorobenzene	216	8.312	8.313	-0.001	98	384475	20.0	19.3	
78 2,4,6-Trichlorophenol	196	8.409	8.409	0.000	93	248313	20.0	20.0	
79 2,4,5-Trichlorophenol	196	8.441	8.441	0.000	93	261984	20.0	20.1	
80 1,1'-Biphenyl	154	8.580	8.580	0.000	94	930715	20.0	19.2	
81 2-Chloronaphthalene	162	8.606	8.612	-0.006	96	733513	20.0	19.3	
82 2-Nitroaniline	65	8.686	8.687	0.000	83	213137	20.0	19.8	
86 Dimethyl phthalate	163	8.836	8.841	-0.005	98	770616	20.0	19.0	
87 1,3-Dinitrobenzene	168	8.868	8.873	-0.005	86	123021	20.0	19.0	
88 2,6-Dinitrotoluene	165	8.900	8.900	0.000	96	182486	20.0	19.8	
89 Acenaphthylene	152	8.996	8.996	0.000	98	1081711	20.0	18.5	
90 3-Nitroaniline	138	9.060	9.060	0.000	92	187823	20.0	19.0	
91 Acenaphthene	153	9.156	9.157	-0.001	92	724903	20.0	19.6	
92 2,4-Dinitrophenol	184	9.151	9.157	-0.006	83	227012	40.0	37.1	
93 4-Nitrophenol	109	9.189	9.194	-0.005	84	255481	40.0	38.7	
94 2,4-Dinitrotoluene	165	9.274	9.274	0.000	94	243139	20.0	19.6	
95 Dibenzofuran	168	9.311	9.317	-0.006	96	1041752	20.0	18.9	
99 2,3,4,6-Tetrachlorophenol	232	9.418	9.424	-0.006	73	224984	20.0	18.5	
101 Diethyl phthalate	149	9.482	9.488	-0.006	98	782477	20.0	18.4	
102 Hexadecane	57	9.493	9.493	0.000	96	514133	20.0	19.7	
104 4-Chlorophenyl phenyl ethe	204	9.616	9.616	0.000	90	431274	20.0	18.9	
105 4-Nitroaniline	138	9.621	9.627	-0.006	88	203628	20.0	19.5	
106 Fluorene	166	9.632	9.632	0.000	94	854934	20.0	18.9	
108 4,6-Dinitro-2-methylphenol	198	9.653	9.659	-0.006	89	321228	40.0	42.2	
110 Diphenylamine	169	9.717	9.677	0.040	95	1220226	NC	NC	
109 N-Nitrosodiphenylamine	169	9.717	9.718	-0.001	62	1220226	40.0	39.4	
61 Azobenzene	77	9.760	9.760	0.000	99	869437	20.0	20.8	
111 1,2-Diphenylhydrazine	77	9.760	9.760	0.000	98	869437	20.0	20.8	
116 4-Bromophenyl phenyl ether	248	10.070	10.070	0.000	65	262453	20.0	20.9	
118 Hexachlorobenzene	284	10.150	10.156	-0.006	94	277447	20.0	20.3	
119 Atrazine	200	10.188	10.188	0.000	94	239761	20.0	19.7	
122 Pentachlorophenol	266	10.321	10.327	-0.006	92	374844	40.0	40.1	
121 n-Octadecane	57	10.332	10.337	-0.005	95	538831	20.0	18.5	
126 Phenanthrene	178	10.529	10.535	-0.006	97	1280140	20.0	18.8	
128 Anthracene	178	10.583	10.583	0.000	97	1330948	20.0	19.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
130 Carbazole	167	10.722	10.722	0.000	96	1147329	20.0	19.2	
132 Di-n-butyl phthalate	149	11.026	11.026	0.000	100	1366199	20.0	19.9	
137 Fluoranthene	202	11.833	11.838	-0.005	97	1386766	20.0	19.1	
138 Benzidine	184	11.961	11.967	-0.006	99	770535	20.0	25.5	
139 Pyrene	202	12.137	12.143	-0.006	98	1410610	20.0	19.2	
144 Butyl benzyl phthalate	149	13.008	13.014	-0.006	98	601756	20.0	20.3	
149 3,3'-Dichlorobenzidine	252	13.975	13.975	0.000	74	512384	20.0	19.7	
151 Bis(2-ethylhexyl) phthalat	149	14.034	14.034	0.000	96	822328	20.0	20.0	
152 Benzo[a]anthracene	228	14.050	14.055	-0.005	98	1404488	20.0	20.1	
153 Chrysene	228	14.119	14.125	-0.006	97	1306595	20.0	20.0	
156 Di-n-octyl phthalate	149	15.359	15.359	0.000	99	1422563	20.0	19.2	
158 Benzo[b]fluoranthene	252	16.224	16.224	0.000	97	1373081	20.0	19.3	
159 Benzo[k]fluoranthene	252	16.278	16.278	0.000	99	1429800	20.0	20.1	
160 Benzo[a]pyrene	252	16.908	16.913	-0.005	77	1341399	20.0	19.8	
163 Indeno[1,2,3-cd]pyrene	276	19.280	19.275	0.005	99	1574301	20.0	20.3	
164 Dibenz(a,h)anthracene	278	19.312	19.312	0.000	88	1362287	20.0	20.8	
165 Benzo[g,h,i]perylene	276	19.889	19.889	0.000	98	1387853	20.0	20.6	
S 208 Methyl Phenols,Total	108				0		40.0	38.5	
S 206 Total Cresols	108				0		40.0	38.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SVTAP2NDSRCEi_00009 Amount Added: 1.00 Units: mL

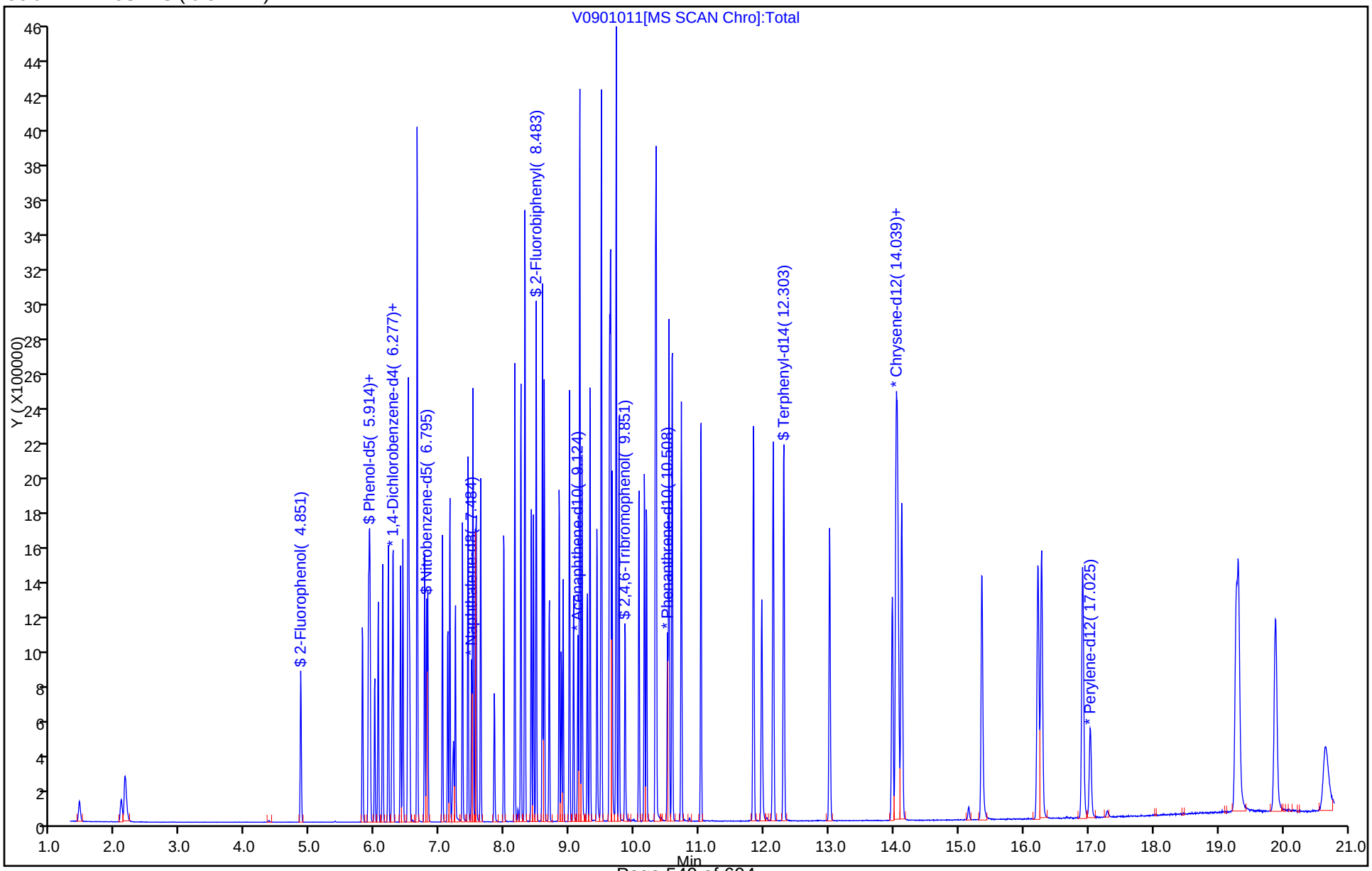
Report Date: 01-Sep-2015 04:26:48 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901011.D

Injection Date:	31-Aug-2015 17:22:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	BNA_CH731	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.: 180-47935-1

SDG No.:

Lab Sample ID: ICV 180-152241/13 Calibration Date: 08/31/2015 18:17

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V0901013.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,3,5,6-Tetrachlorophenol	Ave	0.3792	0.4077	0.0100	10.8	10.0	7.5	30.0
1,1'-Biphenyl	Ave	1.544		0.0100		10.0		30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6358		0.0100		10.0		30.0
1,2,4-Trichlorobenzene	Ave	0.3838		0.0100		10.0		30.0
1,2-Dichlorobenzene	Ave	1.600		0.0100		10.0		30.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7505		0.0100		10.0		30.0
1,3-Dichlorobenzene	Ave	1.633		0.0100		10.0		30.0
1,3-Dinitrobenzene	Ave	0.2058		0.0100		10.0		30.0
1,4-Dichlorobenzene	Ave	1.673		0.0100		10.0		30.0
1,4-Dioxane	Ave	0.4059		0.0100		10.0		30.0
1-Methylnaphthalene	Ave	0.6809		0.0100		10.0		30.0
2,2'-oxybis[1-chloropropane]	Ave	1.702		0.0100		10.0		30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3880		0.0100		10.0		30.0
2,4,5-Trichlorophenol	Ave	0.4149		0.2000		10.0		30.0
2,4,6-Trichlorophenol	Ave	0.3956		0.2000		10.0		30.0
2,4-Dichlorophenol	Ave	0.3185		0.2000		10.0		30.0
2,4-Dimethylphenol	Ave	0.3716		0.2000		10.0		30.0
2,4-Dinitrophenol	Lin2			0.0100		20.0	-100.0*	30.0
2,4-Dinitrotoluene	Ave	0.3946		0.2000		10.0		30.0
2,6-Dichlorophenol	Ave	0.3193		0.0100		10.0		30.0
2,6-Dinitrotoluene	Ave	0.2938		0.2000		10.0		30.0
2-Chloronaphthalene	Ave	1.213		0.8000		10.0		30.0
2-Chlorophenol	Ave	1.422		0.8000		10.0		30.0
2-Methylnaphthalene	Ave	0.7752		0.4000		10.0		30.0
2-Methylphenol	Ave	1.237		0.7000		10.0		30.0
2-Naphthylamine	Ave	1.197		0.0100		10.0		30.0
2-Nitroaniline	Ave	0.3429		0.0100		10.0		30.0
2-Nitrophenol	Ave	0.1917		0.1000		10.0		30.0
3,3'-Dichlorobenzidine	Ave	0.4358		0.0100		10.0		30.0
3-Nitroaniline	Ave	0.3146		0.0100		10.0		30.0
4,6-Dinitro-2-methylphenol	Ave	0.1364		0.0100		20.0		30.0
4-Bromophenyl phenyl ether	Ave	0.2248		0.1000		10.0		30.0
4-Chloro-3-methylphenol	Ave	0.3163		0.2000		10.0		30.0
4-Chloroaniline	Ave	0.4495		0.0100		10.0		30.0
4-Chlorophenyl phenyl ether	Ave	0.7262		0.4000		10.0		30.0
4-Nitroaniline	Ave	0.3326		0.0100		10.0		30.0
4-Nitrophenol	Ave	0.2103		0.0100		20.0		30.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5386		0.0100		10.0		30.0
Acenaphthene	Ave	1.180		0.9000		10.0		30.0
Acenaphthylene	Ave	1.863		0.9000		10.0		30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: ICV 180-152241/13 Calibration Date: 08/31/2015 18:17

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V0901013.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetophenone	Ave	1.878		0.0100		10.0		30.0
Aniline	Ave	1.894		0.0100		10.0		30.0
Anthracene	Ave	1.216		0.7000		10.0		30.0
Atrazine	Ave	0.2181		0.0100		10.0		30.0
Benzaldehyde	Ave	0.7981		0.0100		10.0		30.0
Benzidine	Ave	0.5055		0.0100		10.0		30.0
Benzo[a]anthracene	Ave	1.167		0.8000		10.0		30.0
Benzo[a]pyrene	Ave	1.180		0.7000		10.0		30.0
Benzo[b]fluoranthene	Ave	1.239		0.7000		10.0		30.0
Benzo[g,h,i]perylene	Ave	1.174		0.5000		10.0		30.0
Benzo[k]fluoranthene	Ave	1.238		0.7000		10.0		30.0
Benzoic acid	Lin1			0.0100		10.0	-100.0*	30.0
Benzyl alcohol	Ave	0.8520		0.0100		10.0		30.0
Bis(2-chloroethoxy)methane	Ave	0.3765		0.3000		10.0		30.0
Bis(2-chloroethyl)ether	Ave	1.161		0.7000		10.0		30.0
Bis(2-ethylhexyl) phthalate	Ave	0.6866		0.0100		10.0		30.0
Butyl benzyl phthalate	Ave	0.4956		0.0100		10.0		30.0
Caprolactam	Ave	0.0958		0.0100		10.0		30.0
Carbazole	Ave	1.070		0.0100		10.0		30.0
Chrysene	Ave	1.093		0.7000		10.0		30.0
Dibenz(a,h)anthracene	Ave	1.141		0.4000		10.0		30.0
Dibenzofuran	Ave	1.757		0.8000		10.0		30.0
Diethyl phthalate	Ave	1.354		0.0100		10.0		30.0
Dimethyl phthalate	Ave	1.294		0.0100		10.0		30.0
Di-n-butyl phthalate	Ave	1.230		0.0100		10.0		30.0
Di-n-octyl phthalate	Ave	1.291		0.0100		10.0		30.0
Fluoranthene	Ave	1.301		0.6000		10.0		30.0
Fluorene	Ave	1.440		0.9000		10.0		30.0
Hexachlorobenzene	Ave	0.2447		0.1000		10.0		30.0
Hexachlorobutadiene	Ave	0.2453		0.0100		10.0		30.0
Hexachlorocyclopentadiene	Ave	0.4305		0.0500		10.0		30.0
Hexachloroethane	Ave	0.7293		0.3000		10.0		30.0
Hexadecane	Ave	0.5246				10.0		30.0
Indene	Ave	2.396		0.0100		10.0		30.0
Indeno[1,2,3-cd]pyrene	Ave	1.348		0.5000		10.0		30.0
Isophorone	Ave	0.6240		0.4000		10.0		30.0
Methyl methanesulfonate	Ave	0.6714		0.0100		10.0		30.0
Methylphenol, 3 & 4	Ave	1.304		0.6000		10.0		30.0
Naphthalene	Ave	1.089		0.7000		10.0		30.0
n-Decane	Ave	1.358				10.0		30.0
Nitrobenzene	Ave	0.3804		0.2000		10.0		30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: ICV 180-152241/13 Calibration Date: 08/31/2015 18:17

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V0901013.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	Ave	0.5156		0.0100		10.0		30.0
N-Nitrosodi-n-propylamine	Ave	0.9087		0.5000		10.0		30.0
N-Nitrosodiphenylamine	Ave	0.5553		0.0100		20.0		30.0
N-Nitrosopyrrolidine	Ave	0.5648		0.0100		10.0		30.0
n-Octadecane	Ave	2.300				10.0		30.0
Pentachlorophenol	Ave	0.1676		0.0500		20.0		30.0
Phenanthrene	Ave	1.218		0.7000		10.0		30.0
Phenol	Ave	1.679		0.8000		10.0		30.0
Pyrene	Ave	1.232		0.6000		10.0		30.0
Pyridine	Ave	0.9650		0.0100		10.0		30.0
2,4,6-Tribromophenol (Surr)	Ave	0.1109		0.0100	0.000000	10.0		30.0
2-Fluorobiphenyl	Ave	1.398			0.000000	10.0		30.0
2-Fluorophenol (Surr)	Ave	1.178			0.000000	10.0		30.0
Nitrobenzene-d5 (Surr)	Ave	0.3892			0.000000	10.0		30.0
Phenol-d5 (Surr)	Ave	1.538			0.000000	10.0		30.0
Terphenyl-d14 (Surr)	Ave	0.7597			0.000000	10.0		30.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901013.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 31-Aug-2015 18:17:30 ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-013
Operator ID: 003200 Instrument ID: CH731
Sublist:

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:45 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:25:44

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	6.260	6.261	-0.001	94	101558	8.00	8.00	
* 2 Naphthalene-d8	136	7.483	7.490	-0.007	100	392571	8.00	8.00	
* 3 Acenaphthene-d10	164	9.123	9.130	-0.007	92	246829	8.00	8.00	
* 4 Phenanthrene-d10	188	10.507	10.508	-0.001	97	456810	8.00	8.00	
* 5 Chrysene-d12	240	14.070	14.071	-0.001	97	523010	8.00	8.00	
* 6 Perylene-d12	264	17.024	17.031	-0.007	98	521907	8.00	8.00	
$ 7 2-Fluorophenol	112		4.851				ND	ND	
$ 8 Phenol-d5	99		5.898				ND	ND	
$ 9 Nitrobenzene-d5	82		6.795				ND	ND	
$ 10 2-Fluorobiphenyl	172		8.484				ND	ND	
$ 11 2,4,6-Tribromophenol	330		9.856				ND	ND	
$ 12 Terphenyl-d14	244		12.303				ND	ND	
13 1,4-Dioxane	88		1.437				ND	ND	
14 N-Nitrosodimethylamine	74		2.078				ND	ND	
15 Pyridine	79		2.142				ND	ND	
19 2-Picoline	93		4.030				ND	ND	
20 N-Nitrosomethylethylamine	88		4.233				ND	ND	
21 Acrylamide	71		4.597				ND	ND	
22 Methyl methanesulfonate	80		4.600				ND	ND	
24 N-Nitrosodiethylamine	102		5.115				ND	ND	
25 Ethyl methanesulfonate	79		5.517				ND	ND	
26 Benzaldehyde	77		5.802				ND	ND	
27 Phenol	94		5.909				ND	ND	
28 Aniline	93		5.919				ND	ND	
29 Bis(2-chloroethyl)ether	93		5.994				ND	ND	
30 Pentachloroethane	167		6.025				ND	ND	
31 2-Chlorophenol	128		6.048				ND	ND	
32 n-Decane	43		6.117				ND	ND	
33 1,3-Dichlorobenzene	146		6.202				ND	ND	
34 1,4-Dichlorobenzene	146		6.277				ND	ND	
36 Benzyl alcohol	108		6.389				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,2-Dichlorobenzene	146		6.427				ND	ND	
38 2-Methylphenol	108		6.507				ND	ND	
39 Indene	116		6.518				ND	ND	
40 2,2'-oxybis[1-chloropropan	45		6.534				ND	ND	
41 N-Nitrosopyrrolidine	100		6.614				ND	ND	
42 N-Nitrosomorpholine	116		6.632				ND	ND	
44 N-Nitrosodi-n-propylamine	70		6.646				ND	ND	
43 Acetophenone	105		6.646				ND	ND	
45 4-Methylphenol	108		6.651				ND	ND	
46 2-Toluidine	106		6.664				ND	ND	
47 Hexachloroethane	117		6.763				ND	ND	
48 Nitrobenzene	77		6.811				ND	ND	
49 N-Nitrosopiperidine	114		6.926				ND	ND	
50 Isophorone	82		7.041				ND	ND	
51 2-Nitrophenol	139		7.121				ND	ND	
52 2,4-Dimethylphenol	107		7.153				ND	ND	
56 Benzoic acid	122		7.196				ND	ND	
55 Bis(2-chloroethoxy)methane	93		7.239				ND	ND	
57 2,4-Dichlorophenol	162		7.346				ND	ND	
58 alpha,alpha-Dimethyl phene	58		7.353				ND	ND	
59 1,2,4-Trichlorobenzene	180		7.436				ND	ND	
60 Naphthalene	128		7.511				ND	ND	
62 4-Chloroaniline	127		7.549				ND	ND	
63 2,6-Dichlorophenol	162		7.559				ND	ND	
65 Hexachloropropene	213		7.627				ND	ND	
64 Hexachlorobutadiene	225		7.629				ND	ND	
66 Quinoline	129		7.786				ND	ND	
68 N-Nitrosodi-n-butylamine	84		7.818				ND	ND	
69 p-Phenylene diamine	108		7.834				ND	ND	
67 Caprolactam	113		7.837				ND	ND	
70 4-Chloro-3-methylphenol	107		7.987				ND	ND	
72 2-Methylnaphthalene	142		8.158				ND	ND	
75 1-Methylnaphthalene	142		8.248				ND	ND	
76 Hexachlorocyclopentadiene	237		8.307				ND	ND	
77 1,2,4,5-Tetrachlorobenzene	216		8.313				ND	ND	
78 2,4,6-Trichlorophenol	196		8.409				ND	ND	
79 2,4,5-Trichlorophenol	196		8.441				ND	ND	
80 1,1'-Biphenyl	154		8.580				ND	ND	
81 2-Chloronaphthalene	162		8.612				ND	ND	
83 1-Chloronaphthalene	162		8.648				ND	ND	
82 2-Nitroaniline	65		8.687				ND	ND	
84 1,4-Dinitrobenzene	168		8.769				ND	ND	
85 1,4-Naphthoquinone	158		8.771				ND	ND	
86 Dimethyl phthalate	163		8.841				ND	ND	
87 1,3-Dinitrobenzene	168		8.873				ND	ND	
88 2,6-Dinitrotoluene	165		8.900				ND	ND	
89 Acenaphthylene	152		8.996				ND	ND	
90 3-Nitroaniline	138		9.060				ND	ND	
91 Acenaphthene	153		9.157				ND	ND	
92 2,4-Dinitrophenol	184		9.157				ND	ND	
93 4-Nitrophenol	109		9.194				ND	ND	
94 2,4-Dinitrotoluene	165		9.274				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
96 Pentachlorobenzene	250		9.299				ND	ND	
95 Dibenzofuran	168		9.317				ND	ND	
98 1-Naphthylamine	143		9.340				ND	ND	
97 2,3,5,6-Tetrachlorophenol	232	9.380	9.381	-0.001	94	251572	20.0	21.5	
99 2,3,4,6-Tetrachlorophenol	232		9.424				ND	ND	
100 2-Naphthylamine	143		9.450				ND	ND	
101 Diethyl phthalate	149		9.488				ND	ND	
102 Hexadecane	57		9.493				ND	ND	
107 N-Nitro-o-toluidine	152		9.586				ND	ND	
104 4-Chlorophenyl phenyl ethe	204		9.616				ND	ND	
105 4-Nitroaniline	138		9.627				ND	ND	
106 Fluorene	166		9.632				ND	ND	
108 4,6-Dinitro-2-methylphenol	198		9.659				ND	ND	
110 Diphenylamine	169		9.677				ND	ND	
109 N-Nitrosodiphenylamine	169		9.718				ND	ND	
61 Azobenzene	77		9.760				ND	ND	
111 1,2-Diphenylhydrazine	77		9.760				ND	ND	
112 1,3,5-Trinitrobenzene	213		9.896				ND	ND	
113 Phenacetin	108		9.939				ND	ND	
116 4-Bromophenyl phenyl ether	248		10.070				ND	ND	
118 Hexachlorobenzene	284		10.156				ND	ND	
119 Atrazine	200		10.188				ND	ND	
120 4-Aminobiphenyl	169		10.265				ND	ND	
123 Pronamide	173		10.297				ND	ND	
124 Pentachloronitrobenzene	237		10.302				ND	ND	
122 Pentachlorophenol	266		10.327				ND	ND	
121 n-Octadecane	57		10.337				ND	ND	
127 Dinoseb	211		10.475				ND	ND	
126 Phenanthrene	178		10.535				ND	ND	
128 Anthracene	178		10.583				ND	ND	
130 Carbazole	167		10.722				ND	ND	
132 Di-n-butyl phthalate	149		11.026				ND	ND	
134 4-Nitroquinoline-1-oxide	190		11.263				ND	ND	
136 Isodrin	193		11.661				ND	ND	
137 Fluoranthene	202		11.838				ND	ND	
138 Benzidine	184		11.967				ND	ND	
139 Pyrene	202		12.143				ND	ND	
141 p-Dimethylamino azobenzene	225		12.428				ND	ND	
142 Chlorobenzilate	139		12.542				ND	ND	
145 3,3'-Dimethylbenzidine	212		12.936				ND	ND	
144 Butyl benzyl phthalate	149		13.014				ND	ND	
147 2-Acetylaminofluorene	181		13.363				ND	ND	
150 4,4'-Methylene bis(2-chlor	231		13.881				ND	ND	
149 3,3'-Dichlorobenzidine	252		13.975				ND	ND	
151 Bis(2-ethylhexyl) phthalat	149		14.034				ND	ND	
152 Benzo[a]anthracene	228		14.055				ND	ND	
153 Chrysene	228		14.125				ND	ND	
156 Di-n-octyl phthalate	149		15.359				ND	ND	
157 7,12-Dimethylbenz(a)anthra	256		16.208				ND	ND	
158 Benzo[b]fluoranthene	252		16.224				ND	ND	
159 Benzo[k]fluoranthene	252		16.278				ND	ND	
160 Benzo[a]pyrene	252		16.913				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
162 Dibenz[a,h]acridine	279		18.636				ND	ND	
163 Indeno[1,2,3-cd]pyrene	276		19.275				ND	ND	
164 Dibenz(a,h)anthracene	278		19.312				ND	ND	
165 Benzo[g,h,i]perylene	276		19.889				ND	ND	
181 Isosafrole	162		0.000				ND	ND	
S 208 Methyl Phenols,Total	108		0.000				40.0	ND	
S 206 Total Cresols	108		0.000				40.0	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SVTAP2NDSRC3i_00008 Amount Added: 1.00 Units: mL

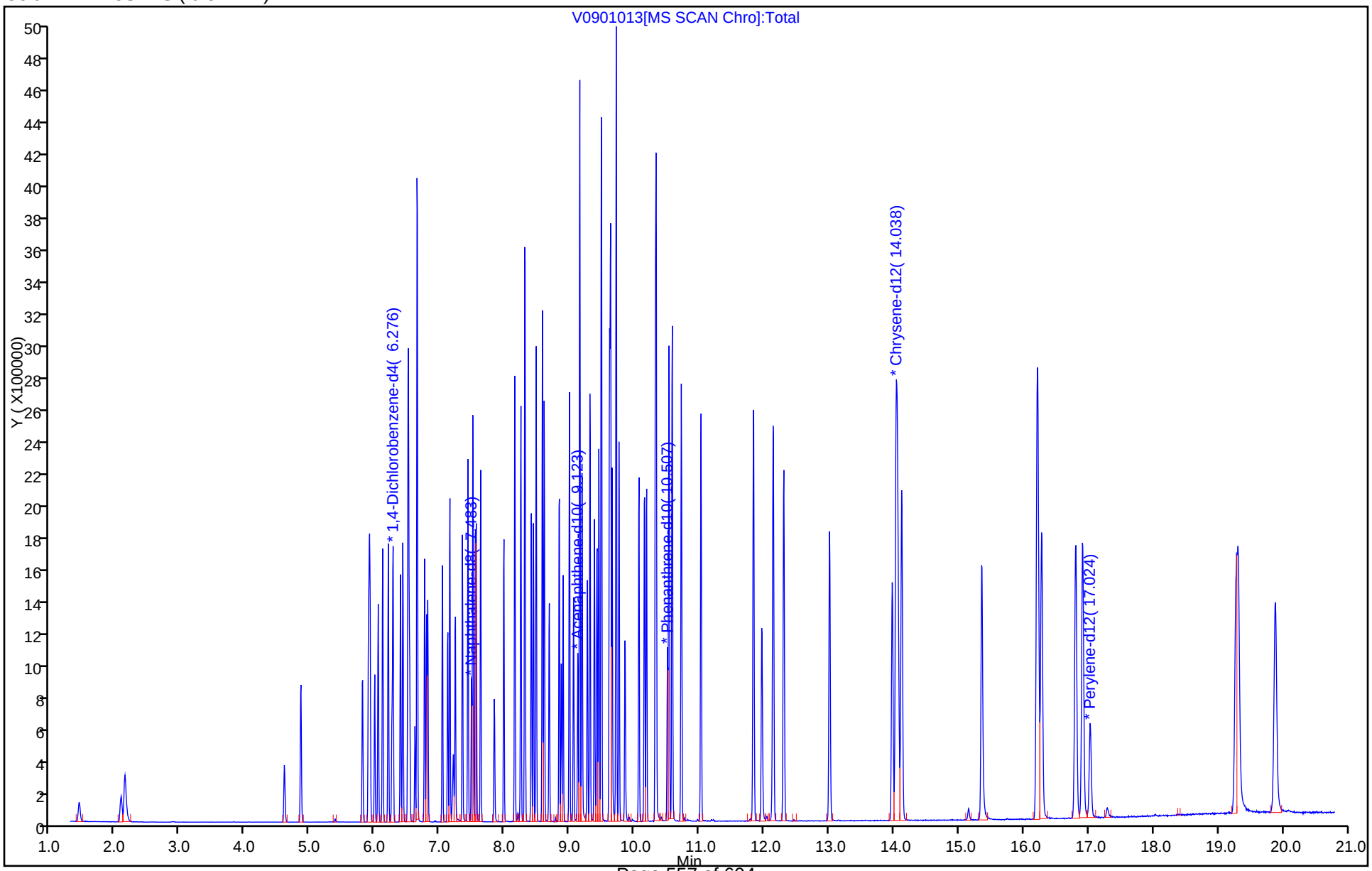
Report Date: 01-Sep-2015 04:26:51 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901013.D

Injection Date:	31-Aug-2015 18:17:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	ICV			Worklist Smp#:	13
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	BNA_CH731	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.: 180-47935-1

SDG No.:

Lab Sample ID: CCVIS 180-155320/3 Calibration Date: 09/30/2015 06:17

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V0930003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4059	0.4397	0.0100	5.42	5.00	8.3	20.0
N-Nitrosodimethylamine	Ave	0.5156	0.5796	0.0100	5.62	5.00	12.4	20.0
Pyridine	Ave	0.9650	1.075	0.0100	5.57	5.00	11.4	20.0
Methyl methanesulfonate	Ave	0.6714	0.6968	0.0100	5.19	5.00	3.8	20.0
Benzaldehyde	Ave	0.7981	0.997	0.0100	6.25	5.00	24.9*	20.0
Phenol	Ave	1.679	1.775	0.8000	5.29	5.00	5.7	20.0
Aniline	Ave	1.894	1.966	0.0100	5.19	5.00	3.8	20.0
Bis(2-chloroethyl)ether	Ave	1.161	1.220	0.7000	5.25	5.00	5.0	20.0
2-Chlorophenol	Ave	1.422	1.438	0.8000	5.06	5.00	1.1	20.0
n-Decane	Ave	1.358	1.286		4.74	5.00	-5.3	20.0
1,3-Dichlorobenzene	Ave	1.633	1.630	0.0100	4.99	5.00	-0.2	20.0
1,4-Dichlorobenzene	Ave	1.673	1.683	0.0100	5.03	5.00	0.6	20.0
Benzyl alcohol	Ave	0.8520	0.8531	0.0100	5.01	5.00	0.1	20.0
1,2-Dichlorobenzene	Ave	1.600	1.604	0.0100	5.01	5.00	0.2	20.0
2-Methylphenol	Ave	1.237	1.294	0.7000	5.23	5.00	4.6	20.0
Indene	Ave	2.396	2.464	0.0100	5.14	5.00	2.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.702	1.651	0.0100	4.85	5.00	-3.0	20.0
N-Nitrosopyrrolidine	Ave	0.5648	0.5598	0.0100	4.96	5.00	-0.9	20.0
Acetophenone	Ave	1.878	1.898	0.0100	5.05	5.00	1.0	20.0
N-Nitrosodi-n-propylamine	Ave	0.9087	0.9356	0.5000	5.15	5.00	3.0	20.0
Methylphenol, 3 & 4	Ave	1.304	1.339	0.6000	5.14	5.00	2.7	20.0
Hexachloroethane	Ave	0.7293	0.6755	0.3000	4.63	5.00	-7.4	20.0
Nitrobenzene	Ave	0.3804	0.3939	0.2000	5.18	5.00	3.6	20.0
Isophorone	Ave	0.6240	0.6319	0.4000	5.06	5.00	1.3	20.0
2-Nitrophenol	Ave	0.1917	0.2024	0.1000	5.28	5.00	5.6	20.0
2,4-Dimethylphenol	Ave	0.3716	0.3860	0.2000	5.19	5.00	3.9	20.0
Benzoic acid	Lin1		0.1677	0.0100	5.89	5.00	17.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.3765	0.3889	0.3000	5.17	5.00	3.3	20.0
2,4-Dichlorophenol	Ave	0.3185	0.3437	0.2000	5.40	5.00	7.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3838	0.3944	0.0100	5.14	5.00	2.8	20.0
Naphthalene	Ave	1.089	1.132	0.7000	5.19	5.00	3.9	20.0
4-Chloroaniline	Ave	0.4495	0.4781	0.0100	5.32	5.00	6.4	20.0
2,6-Dichlorophenol	Ave	0.3193	0.3267	0.0100	5.12	5.00	2.3	20.0
Hexachlorobutadiene	Ave	0.2453	0.2460	0.0100	5.01	5.00	0.3	20.0
Caprolactam	Ave	0.0958	0.0955	0.0100	4.98	5.00	-0.3	20.0
4-Chloro-3-methylphenol	Ave	0.3163	0.3292	0.2000	5.20	5.00	4.1	20.0
2-Methylnaphthalene	Ave	0.7752	0.7890	0.4000	5.09	5.00	1.8	20.0
1-Methylnaphthalene	Ave	0.6809	0.6853	0.0100	5.03	5.00	0.7	20.0
Hexachlorocyclopentadiene	Ave	0.4305	0.4179	0.0500	4.85	5.00	-2.9	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6358	0.6719	0.0100	5.28	5.00	5.7	20.0
2,4,6-Trichlorophenol	Ave	0.3956	0.4329	0.2000	5.47	5.00	9.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: CCVIS 180-155320/3 Calibration Date: 09/30/2015 06:17

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V0930003.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	0.4149	0.4446	0.2000	5.36	5.00	7.1	20.0
1,1'-Biphenyl	Ave	1.544	1.597	0.0100	5.17	5.00	3.4	20.0
2-Chloronaphthalene	Ave	1.213	1.248	0.8000	5.14	5.00	2.9	20.0
2-Nitroaniline	Ave	0.3429	0.3507	0.0100	5.11	5.00	2.3	20.0
Dimethyl phthalate	Ave	1.294	1.382	0.0100	5.34	5.00	6.8	20.0
1,3-Dinitrobenzene	Ave	0.2058	0.2280	0.0100	5.54	5.00	10.8	20.0
2,6-Dinitrotoluene	Ave	0.2938	0.3081	0.2000	5.24	5.00	4.8	20.0
Acenaphthylene	Ave	1.863	1.930	0.9000	5.18	5.00	3.6	20.0
3-Nitroaniline	Ave	0.3146	0.3456	0.0100	5.49	5.00	9.9	20.0
2,4-Dinitrophenol	Lin2		0.1946	0.0100	10.5	10.0	5.4	20.0
Acenaphthene	Ave	1.180	1.229	0.9000	5.21	5.00	4.2	20.0
4-Nitrophenol	Ave	0.2103	0.2164	0.0100	10.3	10.0	2.9	20.0
2,4-Dinitrotoluene	Ave	0.3946	0.4393	0.2000	5.57	5.00	11.3	20.0
Dibenzofuran	Ave	1.757	1.792	0.8000	5.10	5.00	2.0	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.3792	0.3895	0.0100	5.14	5.00	2.7	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3880	0.4029	0.0100	5.19	5.00	3.8	20.0
2-Naphthylamine	Ave	1.197	1.294	0.0100	5.40	5.00	8.1	20.0
Diethyl phthalate	Ave	1.354	1.407	0.0100	5.19	5.00	3.9	20.0
Hexadecane	Ave	0.5246	0.4917		4.69	5.00	-6.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.7262	0.7653	0.4000	5.27	5.00	5.4	20.0
4-Nitroaniline	Ave	0.3326	0.3675	0.0100	5.52	5.00	10.5	20.0
Fluorene	Ave	1.440	1.482	0.9000	5.15	5.00	3.0	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1364	0.1586	0.0100	11.6	10.0	16.3	20.0
N-Nitrosodiphenylamine	Ave	0.5553	0.5891	0.0100	10.6	10.0	6.1	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7505	0.7232	0.0100	4.82	5.00	-3.6	20.0
4-Bromophenyl phenyl ether	Ave	0.2248	0.2322	0.1000	5.16	5.00	3.3	20.0
Hexachlorobenzene	Ave	0.2447	0.2553	0.1000	5.21	5.00	4.3	20.0
Atrazine	Ave	0.2181	0.2419	0.0100	5.55	5.00	10.9	20.0
Pentachlorophenol	Ave	0.1676	0.1444	0.0500	8.62	10.0	-13.8	20.0
n-Octadecane	Ave	2.300	2.028		4.41	5.00	-11.8	20.0
Phenanthrene	Ave	1.218	1.229	0.7000	5.04	5.00	0.9	20.0
Anthracene	Ave	1.216	1.267	0.7000	5.21	5.00	4.2	20.0
Carbazole	Ave	1.070	1.121	0.0100	5.24	5.00	4.7	20.0
Di-n-butyl phthalate	Ave	1.230	1.315	0.0100	5.35	5.00	6.9	20.0
Fluoranthene	Ave	1.301	1.372	0.6000	5.27	5.00	5.4	20.0
Benzidine	Ave	0.5055	0.6169	0.0100	6.10	5.00	22.0*	20.0
Pyrene	Ave	1.232	1.285	0.6000	5.21	5.00	4.3	20.0
Butyl benzyl phthalate	Ave	0.4956	0.5151	0.0100	5.20	5.00	3.9	20.0
3,3'-Dichlorobenzidine	Ave	0.4358	0.4605	0.0100	5.28	5.00	5.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6866	0.7195	0.0100	5.24	5.00	4.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Lab Sample ID: CCVIS 180-155320/3 Calibration Date: 09/30/2015 06:17

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V0930003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.167	1.206	0.8000	5.17	5.00	3.4	20.0
Chrysene	Ave	1.093	1.142	0.7000	5.22	5.00	4.5	20.0
Di-n-octyl phthalate	Ave	1.291	1.301	0.0100	5.04	5.00	0.8	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5386	0.5743	0.0100	5.33	5.00	6.6	20.0
Benzo[b]fluoranthene	Ave	1.239	1.352	0.7000	5.45	5.00	9.1	20.0
Benzo[k]fluoranthene	Ave	1.238	1.247	0.7000	5.04	5.00	0.7	20.0
Benzo[e]pyrene	Ave	1.154	1.175	0.0100	5.09	5.00	1.8	20.0
Benzo[a]pyrene	Ave	1.180	1.247	0.7000	5.29	5.00	5.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.348	1.451	0.5000	5.38	5.00	7.7	20.0
Dibenz(a,h)anthracene	Ave	1.141	1.236	0.4000	5.41	5.00	8.3	20.0
Benzo[g,h,i]perylene	Ave	1.174	1.226	0.5000	5.22	5.00	4.4	20.0
2-Fluorophenol (Surr)	Ave	1.178	1.177		5.00	5.00	-0.0	20.0
Phenol-d5 (Surr)	Ave	1.538	1.590		5.17	5.00	3.4	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3892	0.3967		5.10	5.00	1.9	20.0
2-Fluorobiphenyl	Ave	1.398	1.453		5.20	5.00	3.9	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1109	0.1125	0.0100	5.07	5.00	1.5	20.0
Terphenyl-d14 (Surr)	Ave	0.7597	0.7815		5.14	5.00	2.9	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930003.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Sep-2015 06:17:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008750-003
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Oct-2015 04:56:37 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: piccolinov Date: 30-Sep-2015 07:59:41

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	6.288	6.288	0.000	95	124638	8.00	8.00	
* 2 Naphthalene-d8	136	7.522	7.522	0.000	100	479090	8.00	8.00	
* 3 Acenaphthene-d10	164	9.167	9.167	0.000	92	292775	8.00	8.00	
* 4 Phenanthrene-d10	188	10.551	10.551	0.000	97	550565	8.00	8.00	
* 5 Chrysene-d12	240	14.151	14.151	0.000	97	614488	8.00	8.00	
* 6 Perylene-d12	264	17.127	17.127	0.000	98	583457	8.00	8.00	
$ 7 2-Fluorophenol	112	4.883	4.883	0.000	93	183430	10.0	10.0	
$ 8 Phenol-d5	99	5.924	5.924	0.000	97	247692	10.0	10.3	
$ 9 Nitrobenzene-d5	82	6.827	6.827	0.000	89	237591	10.0	10.2	
$ 10 2-Fluorobiphenyl	172	8.521	8.521	0.000	100	531603	10.0	10.4	
$ 11 2,4,6-Tribromophenol	330	9.894	9.894	0.000	93	77419	10.0	10.1	
$ 12 Terphenyl-d14	244	12.362	12.362	0.000	99	600301	10.0	10.3	
13 1,4-Dioxane	88	1.448	1.448	0.000	93	68504	10.0	10.8	
14 N-Nitrosodimethylamine	74	2.094	2.094	0.000	92	90301	10.0	11.2	
15 Pyridine	79	2.164	2.164	0.000	97	167459	10.0	11.1	
22 Methyl methanesulfonate	80	4.621	4.621	0.000	89	108558	10.0	10.4	
26 Benzaldehyde	77	5.834	5.834	0.000	95	155318	10.0	12.5	
27 Phenol	94	5.940	5.940	0.000	96	276539	10.0	10.6	
28 Aniline	93	5.946	5.946	0.000	94	306296	10.0	10.4	
29 Bis(2-chloroethyl)ether	93	6.021	6.021	0.000	98	189995	10.0	10.5	
31 2-Chlorophenol	128	6.074	6.074	0.000	96	224059	10.0	10.1	
32 n-Decane	43	6.143	6.143	0.000	88	200323	10.0	9.47	
33 1,3-Dichlorobenzene	146	6.229	6.229	0.000	97	254019	10.0	9.98	
34 1,4-Dichlorobenzene	146	6.304	6.304	0.000	93	262199	10.0	10.1	
36 Benzyl alcohol	108	6.421	6.421	0.000	91	132903	10.0	10.0	
37 1,2-Dichlorobenzene	146	6.459	6.459	0.000	96	249895	10.0	10.0	
38 2-Methylphenol	108	6.533	6.533	0.000	97	201647	10.0	10.5	
39 Indene	116	6.544	6.544	0.000	91	383859	10.0	10.3	
40 2,2'-oxybis[1-chloropropan	45	6.560	6.560	0.000	91	257167	10.0	9.70	
41 N-Nitrosopyrrolidine	100	6.646	6.646	0.000	86	87216	10.0	9.91	
44 N-Nitrosodi-n-propylamine	70	6.678	6.678	0.000	72	145770	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.678	6.678	0.000	82	295676	10.0	10.1	
45 4-Methylphenol	108	6.683	6.683	0.000	76	208656	10.0	10.3	
47 Hexachloroethane	117	6.795	6.795	0.000	93	105247	10.0	9.26	
48 Nitrobenzene	77	6.843	6.843	0.000	89	235899	10.0	10.4	
50 Isophorone	82	7.068	7.068	0.000	99	378420	10.0	10.1	
51 2-Nitrophenol	139	7.153	7.153	0.000	98	121231	10.0	10.6	
52 2,4-Dimethylphenol	107	7.185	7.185	0.000	97	231175	10.0	10.4	
56 Benzoic acid	122	7.228	7.228	0.000	90	100418	10.0	11.8	
55 Bis(2-chloroethoxy)methane	93	7.271	7.271	0.000	98	232900	10.0	10.3	
57 2,4-Dichlorophenol	162	7.383	7.383	0.000	93	205819	10.0	10.8	
59 1,2,4-Trichlorobenzene	180	7.468	7.468	0.000	94	236176	10.0	10.3	
60 Naphthalene	128	7.543	7.543	0.000	97	677723	10.0	10.4	
62 4-Chloroaniline	127	7.580	7.580	0.000	96	286322	10.0	10.6	
63 2,6-Dichlorophenol	162	7.596	7.596	0.000	97	195617	10.0	10.2	
64 Hexachlorobutadiene	225	7.661	7.661	0.000	97	147289	10.0	10.0	
67 Caprolactam	113	7.869	7.869	0.000	78	57184	10.0	9.97	
70 4-Chloro-3-methylphenol	107	8.018	8.018	0.000	96	197134	10.0	10.4	
72 2-Methylnaphthalene	142	8.189	8.189	0.000	92	472527	10.0	10.2	
75 1-Methylnaphthalene	142	8.280	8.280	0.000	92	410419	10.0	10.1	
76 Hexachlorocyclopentadiene	237	8.344	8.344	0.000	96	152930	10.0	9.71	
77 1,2,4,5-Tetrachlorobenzene	216	8.350	8.350	0.000	98	245886	10.0	10.6	
78 2,4,6-Trichlorophenol	196	8.446	8.446	0.000	93	158431	10.0	10.9	
79 2,4,5-Trichlorophenol	196	8.478	8.478	0.000	94	162702	10.0	10.7	
80 1,1'-Biphenyl	154	8.617	8.617	0.000	95	584285	10.0	10.3	
81 2-Chloronaphthalene	162	8.644	8.644	0.000	96	456775	10.0	10.3	
82 2-Nitroaniline	65	8.724	8.724	0.000	83	128356	10.0	10.2	
86 Dimethyl phthalate	163	8.873	8.873	0.000	99	505598	10.0	10.7	
87 1,3-Dinitrobenzene	168	8.911	8.911	0.000	87	83452	10.0	11.1	
88 2,6-Dinitrotoluene	165	8.937	8.937	0.000	96	112739	10.0	10.5	
89 Acenaphthylene	152	9.033	9.033	0.000	98	706223	10.0	10.4	
90 3-Nitroaniline	138	9.098	9.098	0.000	93	126470	10.0	11.0	
92 2,4-Dinitrophenol	184	9.194	9.194	0.000	85	142413	20.0	21.1	
91 Acenaphthene	153	9.194	9.194	0.000	93	449843	10.0	10.4	
93 4-Nitrophenol	109	9.231	9.231	0.000	91	158386	20.0	20.6	
94 2,4-Dinitrotoluene	165	9.311	9.311	0.000	94	160752	10.0	11.1	
95 Dibenzofuran	168	9.354	9.354	0.000	96	655743	10.0	10.2	
97 2,3,5,6-Tetrachlorophenol	232	9.418	9.418	0.000	93	142535	10.0	10.3	
99 2,3,4,6-Tetrachlorophenol	232	9.461	9.461	0.000	72	147460	10.0	10.4	
100 2-Naphthylamine	143	9.488	9.488	0.000	97	473432	10.0	10.8	
101 Diethyl phthalate	149	9.520	9.520	0.000	98	514781	10.0	10.4	
102 Hexadecane	57	9.525	9.525	0.000	96	294440	10.0	9.37	
104 4-Chlorophenyl phenyl ethe	204	9.653	9.653	0.000	90	280063	10.0	10.5	
105 4-Nitroaniline	138	9.664	9.664	0.000	82	134478	10.0	11.0	
106 Fluorene	166	9.675	9.675	0.000	94	542394	10.0	10.3	
108 4,6-Dinitro-2-methylphenol	198	9.691	9.691	0.000	91	218310	20.0	23.3	
109 N-Nitrosodiphenylamine	169	9.755	9.755	0.000	61	810821	20.0	21.2	
61 Azobenzene	77	9.797	9.797	0.000	99	497713	10.0	9.64	
111 1,2-Diphenylhydrazine	77	9.797	9.797	0.000	98	497713	10.0	9.64	
116 4-Bromophenyl phenyl ether	248	10.107	10.107	0.000	65	159790	10.0	10.3	
118 Hexachlorobenzene	284	10.193	10.193	0.000	94	175670	10.0	10.4	
119 Atrazine	200	10.225	10.225	0.000	94	166478	10.0	11.1	
122 Pentachlorophenol	266	10.364	10.364	0.000	91	198712	20.0	17.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.369	10.369	0.000	96	315980	10.0	8.82	
126 Phenanthrene	178	10.577	10.577	0.000	97	845929	10.0	10.1	
128 Anthracene	178	10.625	10.625	0.000	96	871726	10.0	10.4	
130 Carbazole	167	10.770	10.770	0.000	96	771256	10.0	10.5	
132 Di-n-butyl phthalate	149	11.069	11.069	0.000	100	905217	10.0	10.7	
137 Fluoranthene	202	11.892	11.892	0.000	96	943877	10.0	10.5	
138 Benzidine	184	12.020	12.020	0.000	99	473861	10.0	12.2	
139 Pyrene	202	12.201	12.201	0.000	99	987063	10.0	10.4	
144 Butyl benzyl phthalate	149	13.077	13.077	0.000	98	395687	10.0	10.4	
149 3,3'-Dichlorobenzidine	252	14.055	14.055	0.000	74	353711	10.0	10.6	
151 Bis(2-ethylhexyl) phthalat	149	14.103	14.103	0.000	95	552638	10.0	10.5	
152 Benzo[a]anthracene	228	14.130	14.130	0.000	97	926507	10.0	10.3	
153 Chrysene	228	14.199	14.199	0.000	96	877108	10.0	10.4	
156 Di-n-octyl phthalate	149	15.439	15.439	0.000	99	949157	10.0	10.1	
157 7,12-Dimethylbenz(a)anthra	256	16.299	16.299	0.000	90	418816	10.0	10.7	
158 Benzo[b]fluoranthene	252	16.315	16.315	0.000	97	985948	10.0	10.9	
159 Benzo[k]fluoranthene	252	16.368	16.368	0.000	98	909517	10.0	10.1	
176 Benzo[e]pyrene	252	16.902	16.902	0.000	0	856650	10.0	10.2	
160 Benzo[a]pyrene	252	17.009	17.009	0.000	76	909714	10.0	10.6	
163 Indeno[1,2,3-cd]pyrene	276	19.392	19.392	0.000	98	1058572	10.0	10.8	
164 Dibenz(a,h)anthracene	278	19.429	19.429	0.000	88	901209	10.0	10.8	
165 Benzo[g,h,i]perylene	276	20.012	20.012	0.000	98	894012	10.0	10.4	
S 206 Total Cresols	108				0		20.0	20.7	
S 208 Methyl Phenols,Total	108				0		20.0	20.7	

Reagents:

SVTAPSTD10i_00128 Amount Added: 1.00 Units: mL

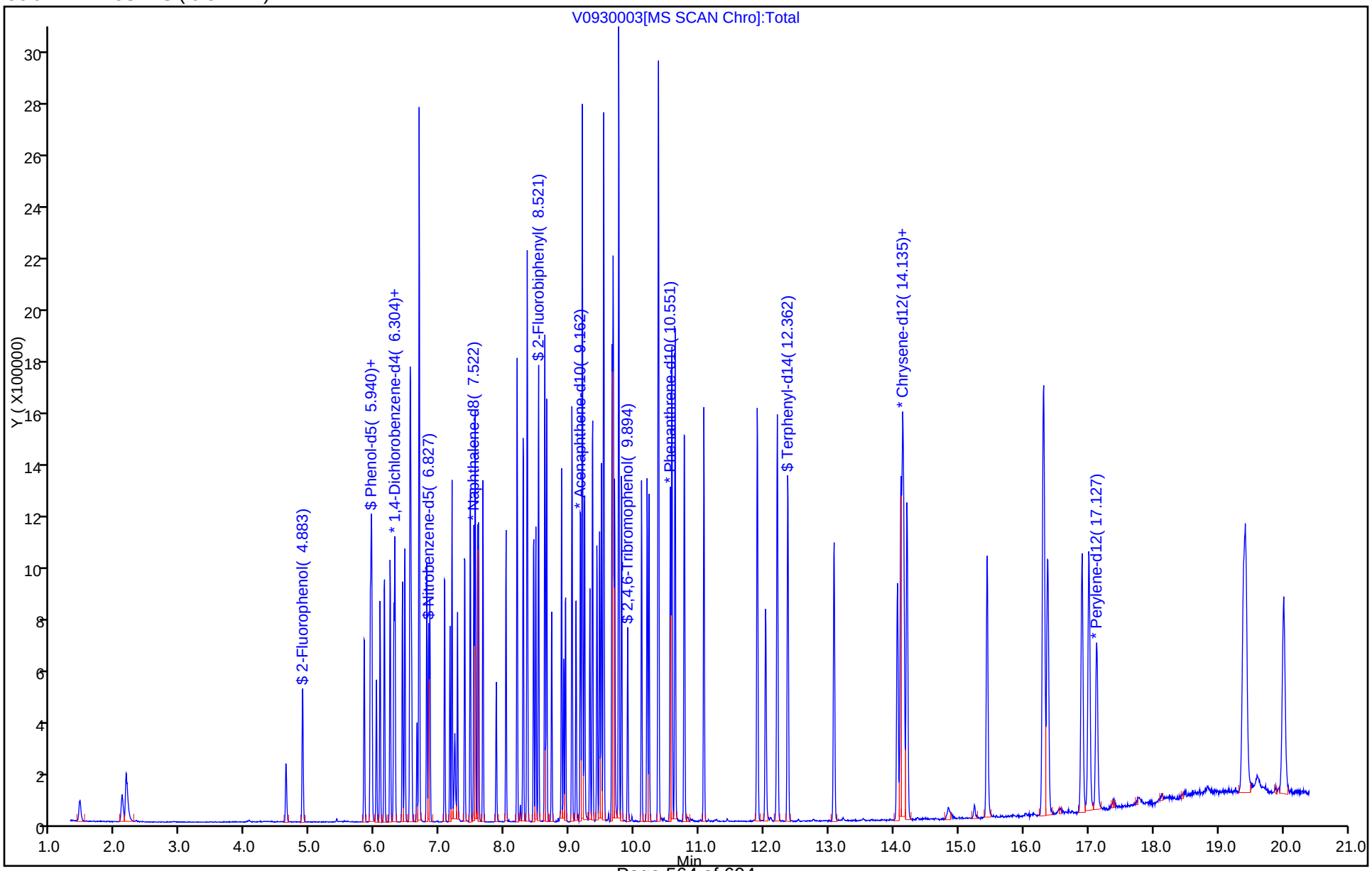
Report Date: 01-Oct-2015 04:56:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930003.D

Injection Date:	30-Sep-2015 06:17:30	Instrument ID:	CH731	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_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 31-Aug-2015 13:24:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:22 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:06:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
198 Pentachlorophenol_T	266	5.377	5.377	0.000	90	195908	NR	NR	
199 DFTPP									
200 Benzidine_T	184	8.006	8.006	0.000	99	1599239	NR	NR	
201 4,4'-DDE	246		8.436					ND	
202 4,4'-DDD	235	9.021	9.028	-0.007	91	7061		NR	
203 4,4'-DDT	235	9.555	9.555	0.000	98	649669	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

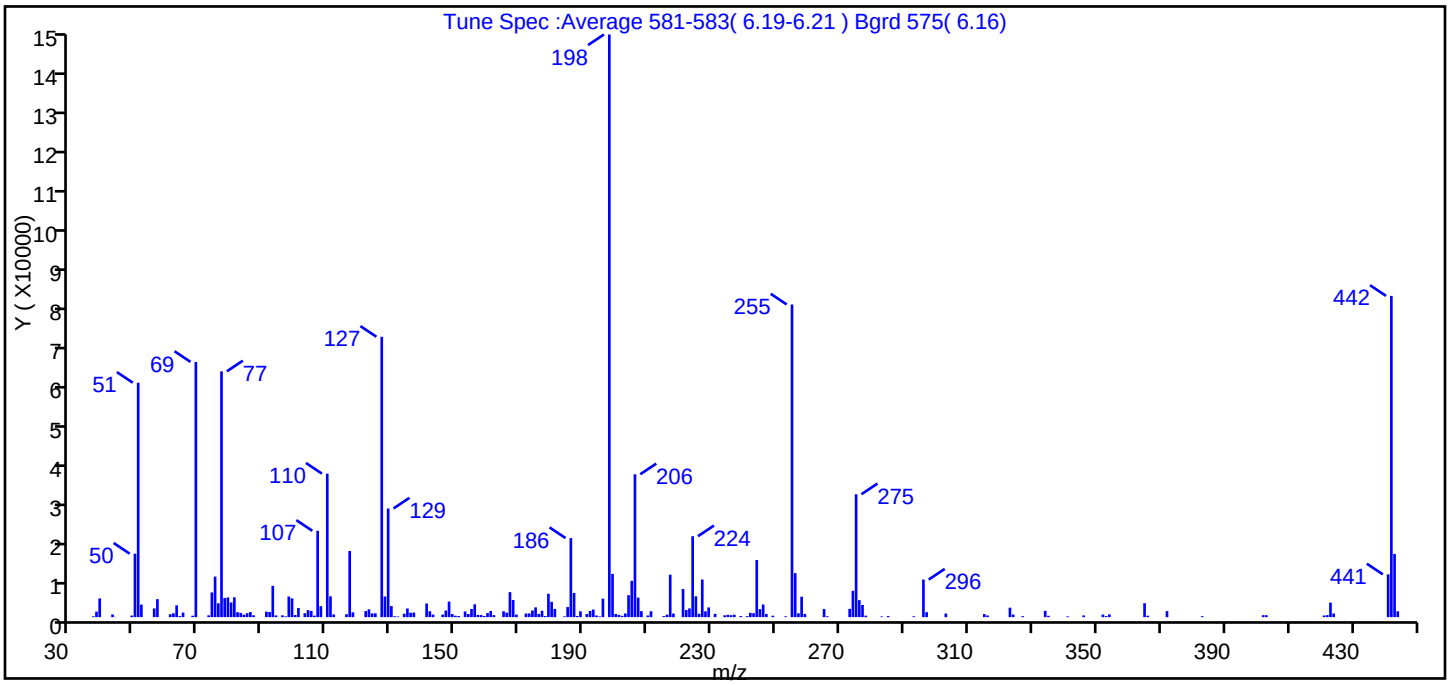
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Injection Date: 31-Aug-2015 13:24:30 Instrument ID: CH731
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_CH731 Limit Group: BNA 8270D ICAL
Tune Method: DFTPP Method 8270

199 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	40.2
68	<2% of mass 69	0.2 (0.6)
69	Present	43.8
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	48.1
197	<1% of mass 198	0.0
199	5-9% of mass 198	7.4
275	10-30% of mass 198	21.1
365	>1% of mass 198	2.4
441	Present but less than mass 443	7.3 (67.7)
442	>40% of mass 198	55.1
443	17-23% of mass 442	10.9 (19.7)

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D\BNA_CH731.rslt\spectra.d
Injection Date: 31-Aug-2015 13:24:30
Spectrum: Tune Spec :Average 581-583(6.19-6.21) Bgrd 575(6.16)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	216	112.00	672	181.00	2060	247.00	790
38.00	1381	116.00	745	184.00	186	249.00	359
39.00	4703	117.00	16592	185.00	2534	253.00	207
43.00	666	118.00	1206	186.00	19840	255.00	78448
44.00	55	122.00	1520	187.00	6078	256.00	11042
49.00	405	123.00	1962	188.00	288	257.00	958
50.00	15922	124.00	940	189.00	1467	258.00	5131
51.00	58808	125.00	959	191.00	779	259.00	817
52.00	3146	127.00	70336	192.00	1556	265.00	2048
56.00	2177	128.00	5171	193.00	1911	266.00	221
57.00	4519	129.00	27264	194.00	422	273.00	2084
61.00	744	130.00	2785	195.00	177	274.00	6603
62.00	958	131.00	216	196.00	4630	275.00	30832
63.00	2957	132.00	170	198.00	146176	276.00	4269
64.00	249	134.00	856	199.00	10851	277.00	3053
65.00	1147	135.00	2177	200.00	787	278.00	375
68.00	361	136.00	1106	201.00	584	283.00	177
69.00	64032	137.00	1144	202.00	341	285.00	281
73.00	448	141.00	3424	203.00	926	293.00	223
74.00	6204	142.00	1479	204.00	5510	296.00	9429
75.00	10174	143.00	645	205.00	9107	297.00	1253
76.00	3476	146.00	640	206.00	35848	303.00	899
77.00	61664	147.00	1667	207.00	4896	315.00	770
78.00	4792	148.00	3904	208.00	1498	316.00	426
79.00	4956	149.00	776	210.00	422	323.00	2373
80.00	3688	150.00	358	211.00	1472	324.00	656
81.00	4976	151.00	281	215.00	266	327.00	253
82.00	1250	153.00	1419	216.00	616	334.00	1571
83.00	1068	154.00	784	217.00	10655	335.00	336
84.00	626	155.00	2037	218.00	901	341.00	195
85.00	992	156.00	3223	221.00	7084	346.00	432
86.00	1291	157.00	582	222.00	1792	352.00	665
87.00	470	158.00	519	223.00	2190	353.00	269

Report Date: 01-Sep-2015 04:26:23 Chrom Revision: 2.2 23-Jul-2015 08:26:08
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D\BNA_CH731.rslt\spectra.d
Injection Date: 31-Aug-2015 13:24:30
Spectrum: Tune Spec :Average 581-583(6.19-6.21) Bgrd 575(6.16)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	1372	159.00	273	224.00	20304	354.00	691
92.00	1297	160.00	1016	225.00	5220	365.00	3494
93.00	7854	161.00	1558	226.00	862	366.00	360
94.00	428	162.00	510	227.00	9440	372.00	1519
96.00	453	165.00	1478	228.00	1466	383.00	242
97.00	193	166.00	1126	229.00	2439	402.00	490
98.00	5175	167.00	6273	231.00	817	403.00	489
99.00	4716	168.00	4294	234.00	460	421.00	414
100.00	521	169.00	641	235.00	604	422.00	499
101.00	2290	172.00	902	236.00	489	423.00	3654
103.00	973	173.00	938	237.00	620	424.00	911
104.00	1758	174.00	1678	239.00	270	441.00	10734
105.00	1558	175.00	2454	241.00	258	442.00	80600
106.00	373	176.00	798	242.00	1074	443.00	15866
107.00	21664	177.00	1605	243.00	988	444.00	1461
108.00	2752	178.00	293	244.00	14338		
110.00	36000	179.00	5856	245.00	2006		
111.00	5217	180.00	3846	246.00	3168		

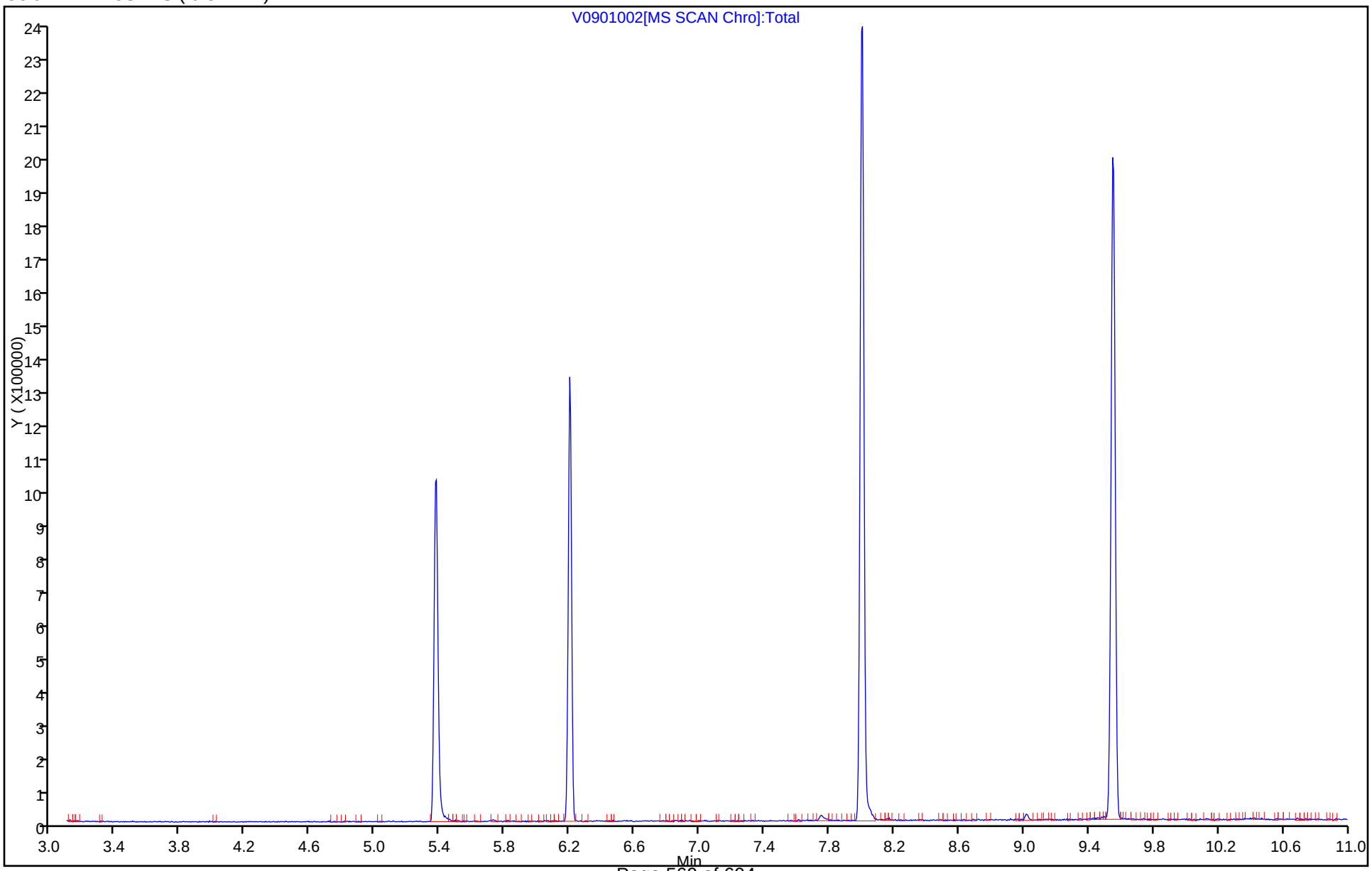
Report Date: 01-Sep-2015 04:26:23 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D

Injection Date:	31-Aug-2015 13:24:30	Instrument ID:	CH731	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_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

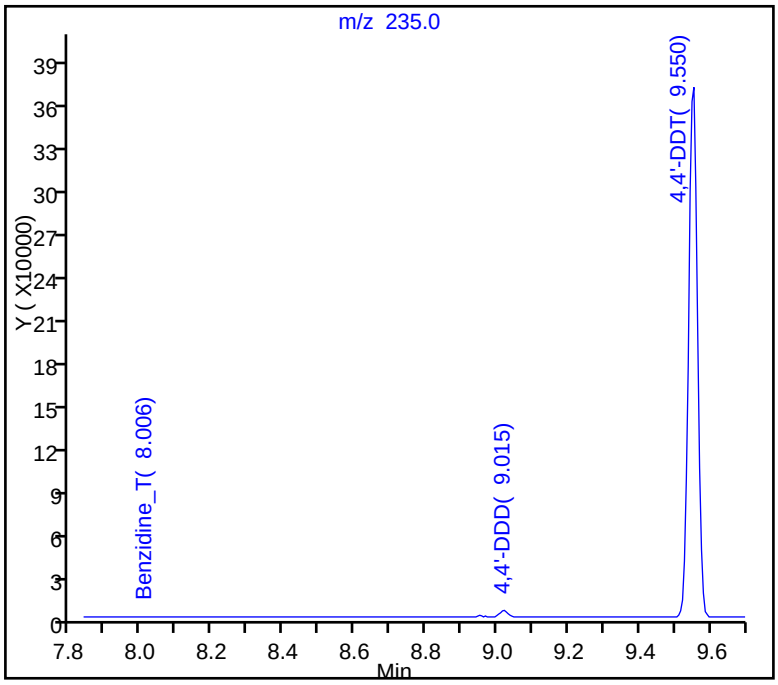


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Injection Date: 31-Aug-2015 13:24:30 Instrument ID: CH731
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_CH731 Limit Group: BNA 8270D ICAL

203 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

203 4,4'-DDT, Area = 649669
201 4,4'-DDE, Area = 0
202 4,4'-DDD, Area = 7061

%Breakdown: 1.08%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

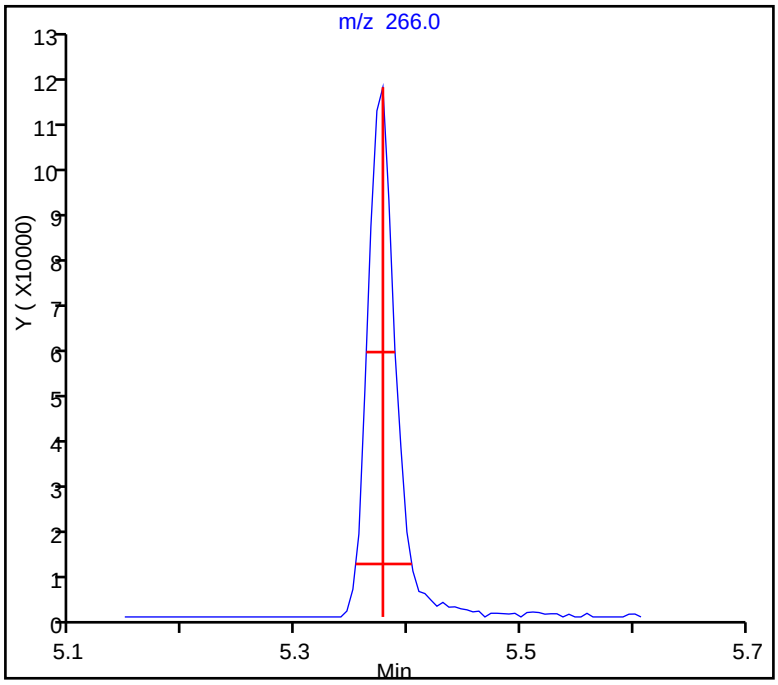
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Injection Date: 31-Aug-2015 13:24:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

198 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.026 (min.)
Front Width = 0.024 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

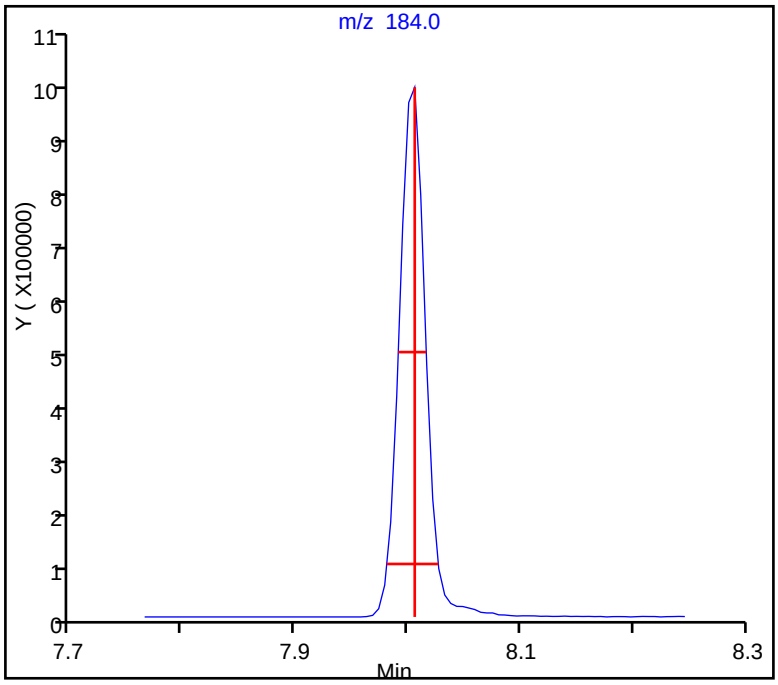
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Injection Date: 31-Aug-2015 13:24:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

200 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.021 (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\CH731\20150930-8750.b\V0930002.D				
Lims ID:	DFTPP				
Client ID:					
Sample Type:	DFTPP				
Inject. Date:	30-Sep-2015 06:01:30	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Sample Info:	180-0008750-002				
Misc. Info.:	DFTPP				
Operator ID:	003200	Instrument ID:	CH731		
Method:	\\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\BNA_CH731.m				
Limit Group:	BNA 8270D ICAL				
Last Update:	01-Oct-2015 04:56:32	Calib Date:	01-Sep-2015 07:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D				
Column 1 :	Rxi-5SilMS (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: piccolinov		Date:	30-Sep-2015 09:19:17		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
198 Pentachlorophenol_T	266	5.434	5.434	0.000	92	255516	NR	NR	
199 DFTPP									
200 Benzidine_T	184	8.063	8.063	0.000	99	2321552	NR	NR	
201 4,4'-DDE	246		8.377					ND	
202 4,4'-DDD	235	9.088	9.028	0.060	92	10109		NR	
203 4,4'-DDT	235	9.628	9.628	0.000	98	1051628	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

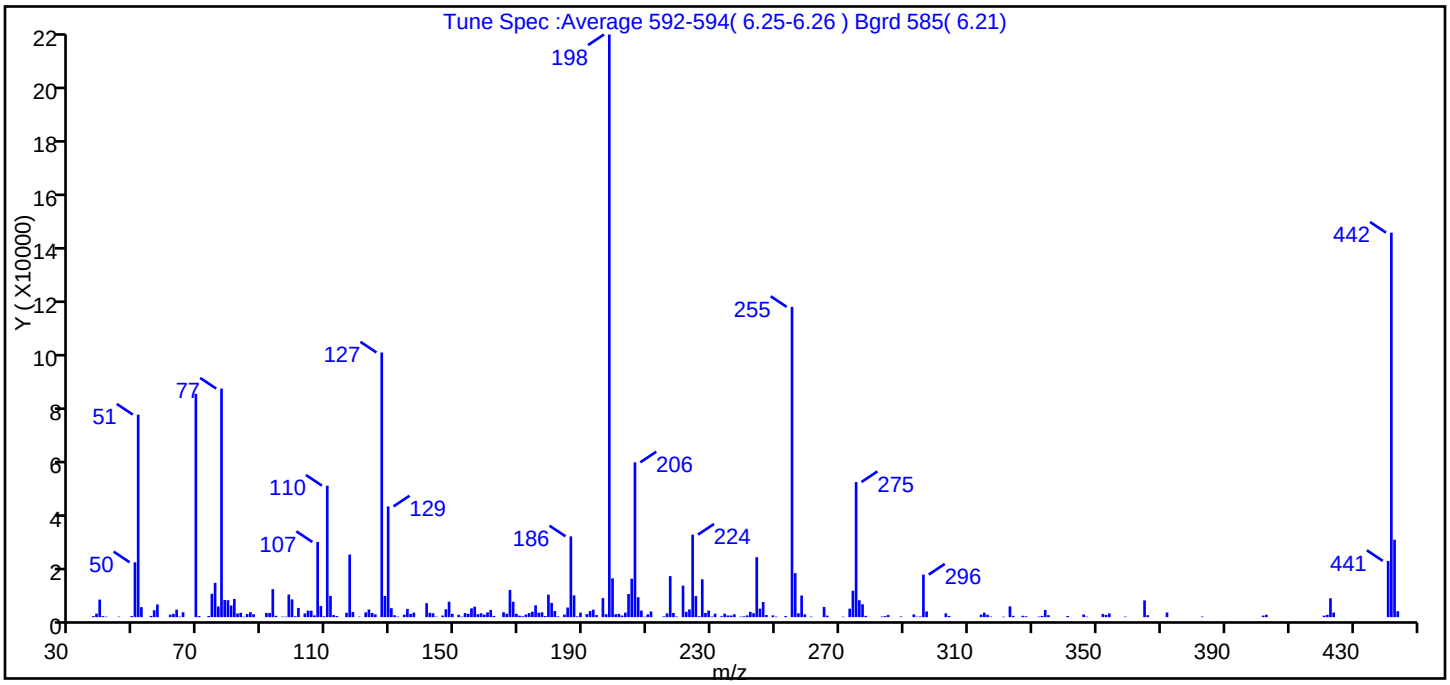
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930002.D
Injection Date: 30-Sep-2015 06:01:30 Instrument ID: CH731
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_CH731 Limit Group: BNA 8270D ICAL
Tune Method: DFTPP Method 8270

199 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	34.8
68	<2% of mass 69	0.0 (0.0)
69	Present	38.3
70	<2% of mass 69	0.2 (0.5)
127	40-60% of mass 198	45.4
197	<1% of mass 198	0.5
199	5-9% of mass 198	6.7
275	10-30% of mass 198	23.2
365	>1% of mass 198	2.9
441	Present but less than mass 443	9.6 (72.6)
442	>40% of mass 198	66.0
443	17-23% of mass 442	13.3 (20.1)

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930002.D\BNA_CH731.rslt\spectra.d
Injection Date: 30-Sep-2015 06:01:30
Spectrum: Tune Spec :Average 592-594(6.25-6.26) Bgrd 585(6.21)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 232

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	384	117.00	23072	187.00	8032	257.00	1413
38.00	1287	118.00	1876	188.00	289	258.00	7980
39.00	6467	120.00	195	189.00	1672	259.00	1032
40.00	382	122.00	1772	191.00	1125	261.00	196
41.00	182	123.00	2817	192.00	2220	265.00	3751
44.00	21	124.00	1523	193.00	2774	266.00	566
45.00	179	125.00	1008	194.00	763	271.00	183
49.00	389	127.00	97536	196.00	7022	273.00	3120
50.00	20216	128.00	7777	197.00	1050	274.00	9731
51.00	74632	129.00	40808	198.00	214720	275.00	49784
52.00	3687	130.00	3314	199.00	14305	276.00	6225
55.00	459	131.00	704	200.00	1075	277.00	4752
56.00	2533	132.00	217	201.00	1182	278.00	480
57.00	4669	134.00	903	202.00	572	283.00	207
61.00	927	135.00	3041	203.00	1682	284.00	394
62.00	1212	136.00	1189	204.00	8527	285.00	830
63.00	2779	137.00	1661	205.00	14174	289.00	242
64.00	199	141.00	5148	206.00	57048	293.00	997
65.00	1808	142.00	1593	207.00	7339	294.00	168
69.00	82288	143.00	1431	208.00	2394	295.00	243
70.00	393	144.00	192	209.00	177	296.00	15682
73.00	437	146.00	588	210.00	1019	297.00	2102
74.00	8601	147.00	2901	211.00	2096	303.00	1380
75.00	12632	148.00	5684	215.00	274	304.00	417
76.00	3918	149.00	1220	216.00	1381	314.00	924
77.00	84224	151.00	856	217.00	15123	315.00	1648
78.00	6321	152.00	216	218.00	1551	316.00	895
79.00	6243	153.00	1505	219.00	232	317.00	207
80.00	4297	154.00	1224	221.00	11602	321.00	188
81.00	6718	155.00	3244	222.00	1967	323.00	3986
82.00	1348	156.00	3846	223.00	2849	324.00	477
83.00	1627	157.00	1097	224.00	30408	327.00	495
84.00	169	158.00	1433	225.00	7758	328.00	341

Report Date: 01-Oct-2015 04:56:33 Chrom Revision: 2.2 08-Sep-2015 13:41:46
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930002.D\BNA_CH731.rslt\spectra.d
Injection Date: 30-Sep-2015 06:01:30
Spectrum: Tune Spec :Average 592-594(6.25-6.26) Bgrd 585(6.21)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 232

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	1142	159.00	932	226.00	333	332.00	190
86.00	1832	160.00	1748	227.00	13951	333.00	441
87.00	1063	161.00	2655	228.00	1560	334.00	2664
91.00	1569	162.00	444	229.00	2444	335.00	727
92.00	1521	165.00	1817	230.00	218	341.00	424
93.00	10306	166.00	1261	231.00	1281	346.00	976
94.00	504	167.00	10037	233.00	325	347.00	179
96.00	181	168.00	5682	234.00	1265	352.00	1183
97.00	182	169.00	1234	235.00	619	353.00	791
98.00	8329	170.00	546	236.00	595	354.00	1358
99.00	6548	171.00	311	237.00	1056	359.00	205
100.00	309	172.00	972	239.00	179	365.00	6175
101.00	3402	173.00	1488	240.00	299	366.00	710
103.00	1361	174.00	1999	241.00	656	372.00	1719
104.00	2391	175.00	4341	242.00	1937	383.00	215
105.00	2387	176.00	1609	243.00	1456	402.00	578
106.00	646	177.00	1793	244.00	22104	403.00	881
107.00	27696	178.00	414	245.00	3137	421.00	544
108.00	4114	179.00	8302	246.00	5588	422.00	852
109.00	312	180.00	5233	247.00	778	423.00	6954
110.00	48456	181.00	2293	249.00	648	424.00	1681
111.00	7839	182.00	287	250.00	206	441.00	20720
112.00	751	184.00	922	253.00	408	442.00	141696
113.00	421	185.00	3534	255.00	114320	443.00	28536
116.00	1608	186.00	29768	256.00	16218	444.00	2186

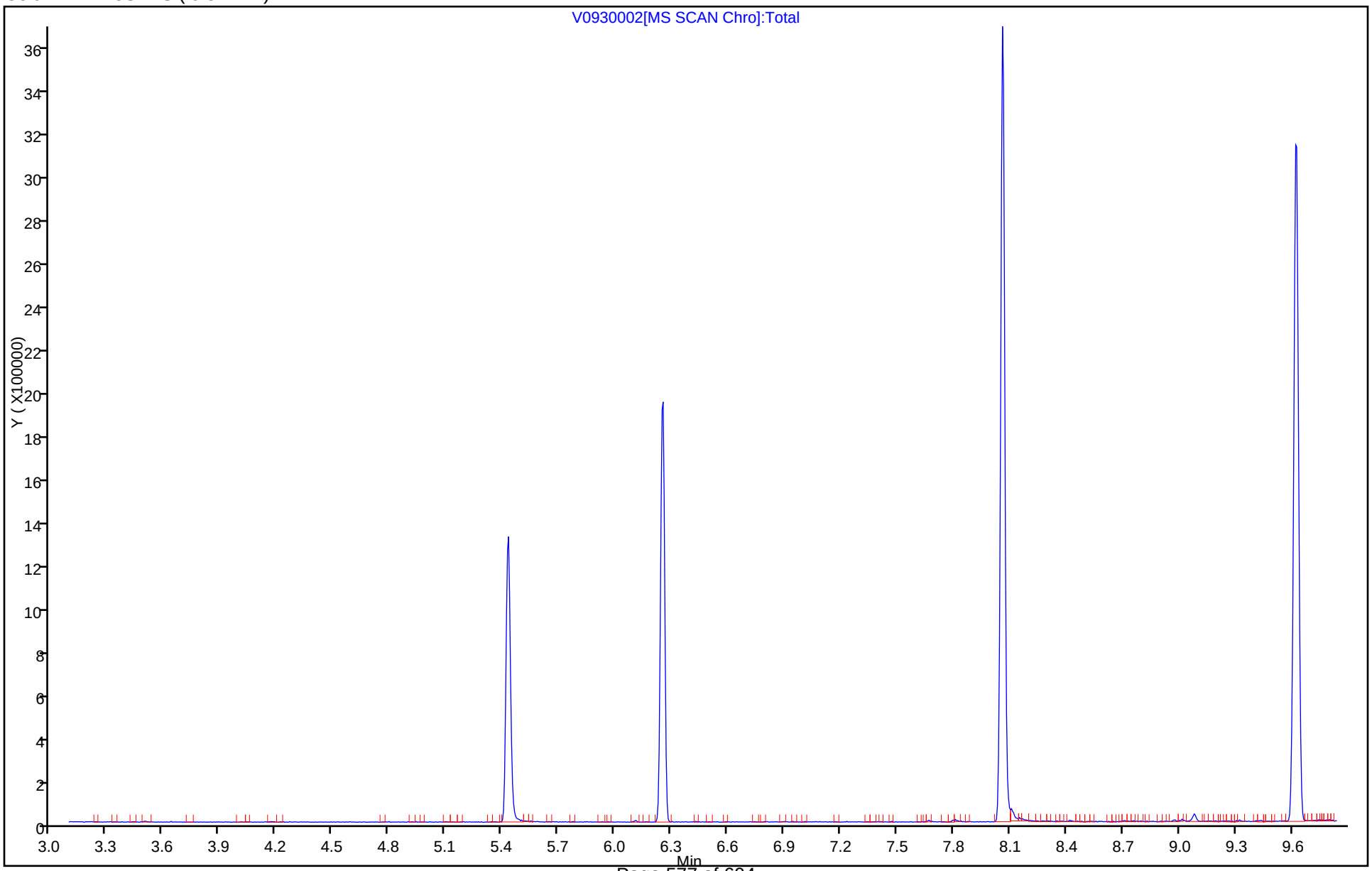
Report Date: 01-Oct-2015 04:56:33 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930002.D

Injection Date:	30-Sep-2015 06:01:30	Instrument ID:	CH731	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_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

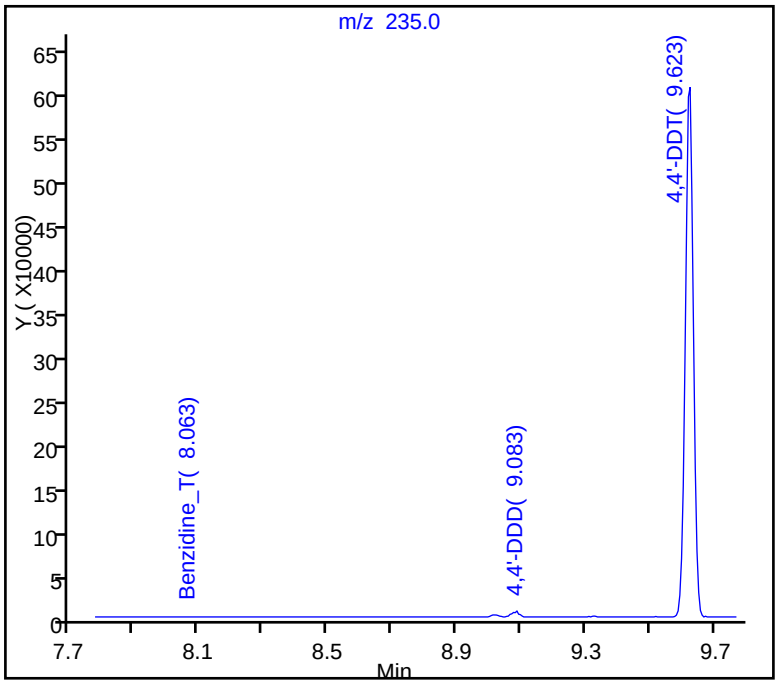


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930002.D
Injection Date: 30-Sep-2015 06:01:30 Instrument ID: CH731
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_CH731 Limit Group: BNA 8270D ICAL

203 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

203 4,4'-DDT, Area = 1051628
201 4,4'-DDE, Area = 0
202 4,4'-DDD, Area = 10109

%Breakdown: 0.95%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

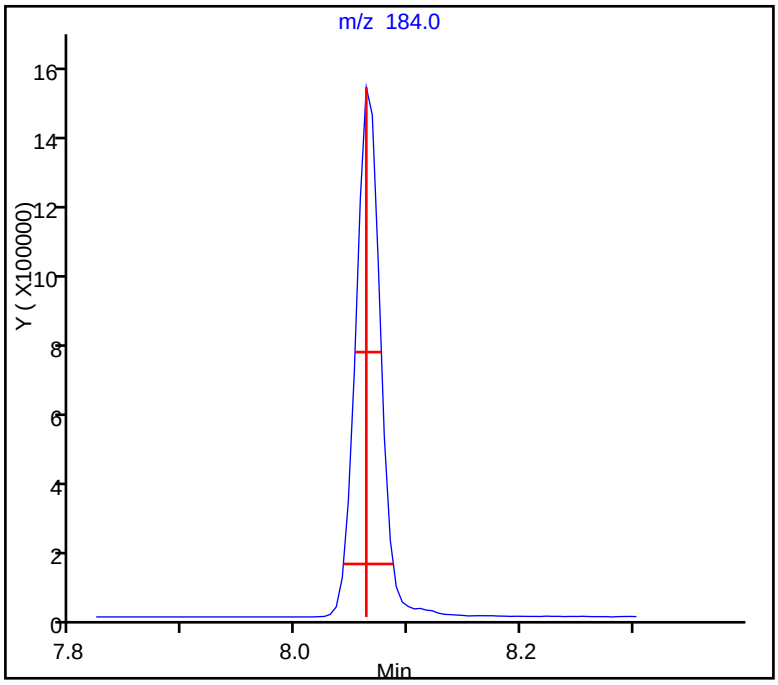
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930002.D
Injection Date: 30-Sep-2015 06:01:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

200 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.024 (min.)
Front Width = 0.020 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

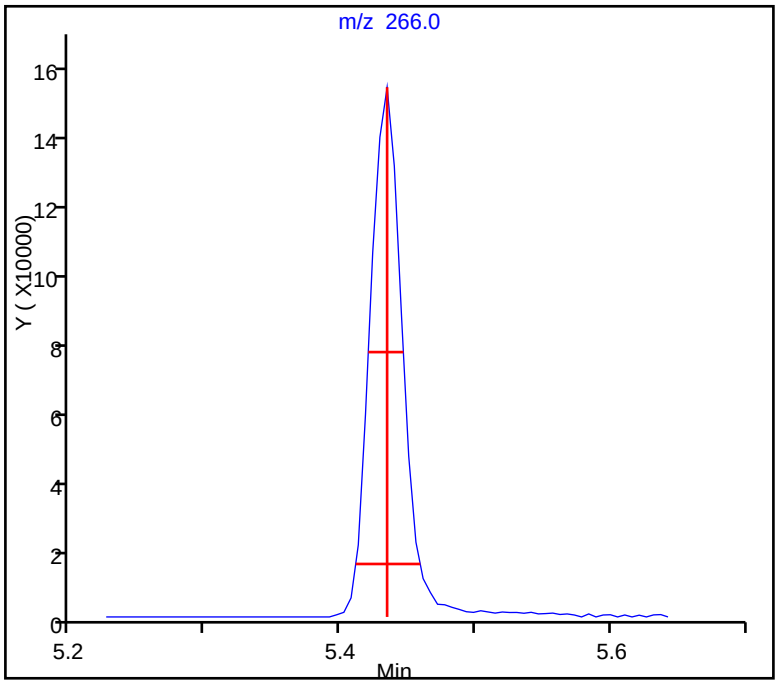
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930002.D
Injection Date: 30-Sep-2015 06:01:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

198 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.025 (min.)
Front Width = 0.023 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-47935-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-154864/1-A

Matrix: Water | Lab File ID: V0930017.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 09/25/2015 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 09/30/2015 12:51

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.: 155320 | 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	67		28-109
367-12-4	2-Fluorophenol (Surr)	65		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	65		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	63		27-114
4165-62-2	Phenol-d5 (Surr)	67		25-105
1718-51-0	Terphenyl-d14 (Surr)	80		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930017.D
Lims ID: MB 180-154864/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-Sep-2015 12:51:30 ALS Bottle#: 16 Worklist Smp#: 17
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008750-017
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Oct-2015 04:56:37 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: piccolinov Date: 01-Oct-2015 04:51:07

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	6.283	6.288	-0.005	95	135497	8.00	8.00	
* 2 Naphthalene-d8	136	7.511	7.522	-0.011	100	551769	8.00	8.00	
* 3 Acenaphthene-d10	164	9.146	9.167	-0.021	92	337460	8.00	8.00	
* 4 Phenanthrene-d10	188	10.530	10.551	-0.021	97	625422	8.00	8.00	
* 5 Chrysene-d12	240	14.109	14.151	-0.042	97	648702	8.00	8.00	
* 6 Perylene-d12	264	17.074	17.127	-0.053	98	610670	8.00	8.00	
$ 7 2-Fluorophenol	112	4.888	4.883	0.005	92	515877	40.0	25.9	
$ 8 Phenol-d5	99	5.919	5.924	-0.005	97	695082	40.0	26.7	
$ 9 Nitrobenzene-d5	82	6.817	6.827	-0.010	90	679308	40.0	25.3	
$ 10 2-Fluorobiphenyl	172	8.505	8.521	-0.016	100	1585914	40.0	26.9	
$ 11 2,4,6-Tribromophenol	330	9.878	9.894	-0.016	92	224110	40.0	25.9	
$ 12 Terphenyl-d14	244	12.330	12.362	-0.032	100	1981927	40.0	32.2	
13 1,4-Dioxane	88		1.448					ND	
14 N-Nitrosodimethylamine	74		2.094					ND	
15 Pyridine	79		2.164					ND	
16 Dimethylformamide	73		3.327					ND	
18 Dibromoacetonitrile	120		3.590					ND	
19 2-Picoline	93		4.030					ND	
20 N-Nitrosomethylethylamine	88		4.233					ND	
21 Acrylamide	71	4.888	4.597	0.292	26	2439			NC
22 Methyl methanesulfonate	80		4.621					ND	
23 Phenylmercaptan	110	4.883	5.000	-0.117	44	2339			NC
24 N-Nitrosodiethylamine	102		5.115					ND	
25 Ethyl methanesulfonate	79		5.517					ND	
26 Benzaldehyde	77		5.834					ND	
27 Phenol	94		5.940					ND	
28 Aniline	93		5.946					ND	
29 Bis(2-chloroethyl)ether	93		6.021					ND	
30 Pentachloroethane	167		6.025					ND	
31 2-Chlorophenol	128		6.074					ND	
32 n-Decane	43		6.143					ND	
33 1,3-Dichlorobenzene	146		6.229					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 1,4-Dichlorobenzene	146		6.304					ND	
35 1,2,3-Trimethylbenzene	105		6.318					ND	
36 Benzyl alcohol	108		6.421					ND	
37 1,2-Dichlorobenzene	146		6.459					ND	
38 2-Methylphenol	108		6.533					ND	
39 Indene	116		6.544					ND	
40 2,2'-oxybis[1-chloropropan	45		6.560					ND	
42 N-Nitrosomorpholine	116		6.632					ND	
41 N-Nitrosopyrrolidine	100		6.646					ND	
46 2-Toluidine	106		6.664					ND	
44 N-Nitrosodi-n-propylamine	70		6.678					ND	
43 Acetophenone	105		6.678					ND	
45 4-Methylphenol	108		6.683					ND	
194 Benzotrichloride TIC	159	10.535	6.750	3.785	0	11281			0
47 Hexachloroethane	117		6.795					ND	
48 Nitrobenzene	77		6.843					ND	
49 N-Nitrosopiperidine	114		6.926					ND	
50 Isophorone	82		7.068					ND	
51 2-Nitrophenol	139		7.153					ND	
54 o,o',o''-Triethylphosphoro	198		7.182					ND	
52 2,4-Dimethylphenol	107		7.185					ND	
53 4-Chloro-3-nitro-alpha,alp	179		7.189					ND	
56 Benzoic acid	122		7.228					ND	
55 Bis(2-chloroethoxy)methane	93		7.271					ND	
58 alpha,alpha-Dimethyl phene	58		7.353					ND	
57 2,4-Dichlorophenol	162		7.383					ND	
59 1,2,4-Trichlorobenzene	180		7.468					ND	
60 Naphthalene	128		7.543					ND	
62 4-Chloroaniline	127		7.580					ND	
63 2,6-Dichlorophenol	162		7.596					ND	
65 Hexachloropropene	213		7.627					ND	
64 Hexachlorobutadiene	225		7.661					ND	
66 Quinoline	129		7.786					ND	
68 N-Nitrosodi-n-butylamine	84		7.818					ND	
69 p-Phenylene diamine	108	7.511	7.834	-0.323	48	61711			NC
67 Caprolactam	113		7.869					ND	
70 4-Chloro-3-methylphenol	107		8.018					ND	
71 Safrole, Total	162		8.026					ND	
73 Phthalic anhydride	104	8.500	8.161	0.339	33	1295			NC
72 2-Methylnaphthalene	142		8.189					ND	
74 Diphenamid	168		8.200					ND	
75 1-Methylnaphthalene	142		8.280					ND	
76 Hexachlorocyclopentadiene	237		8.344					ND	
77 1,2,4,5-Tetrachlorobenzene	216		8.350					ND	
78 2,4,6-Trichlorophenol	196		8.446					ND	
79 2,4,5-Trichlorophenol	196		8.478					ND	
80 1,1'-Biphenyl	154		8.617					ND	
81 2-Chloronaphthalene	162		8.644					ND	
83 1-Chloronaphthalene	162		8.648					ND	
82 2-Nitroaniline	65		8.724					ND	
84 1,4-Dinitrobenzene	168	8.505	8.769	-0.264	31	18595			NC
85 1,4-Naphthoquinone	158	8.505	8.771	-0.266	44	2667			NC

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 Dimethyl phthalate	163		8.873					ND	
87 1,3-Dinitrobenzene	168		8.911					ND	
88 2,6-Dinitrotoluene	165		8.937					ND	
89 Acenaphthylene	152		9.033					ND	
90 3-Nitroaniline	138		9.098					ND	
92 2,4-Dinitrophenol	184		9.194					ND	
91 Acenaphthene	153		9.194					ND	
93 4-Nitrophenol	109		9.231					ND	
96 Pentachlorobenzene	250		9.299					ND	
94 2,4-Dinitrotoluene	165		9.311					ND	
98 1-Naphthylamine	143		9.340					ND	
95 Dibenzofuran	168		9.354					ND	
97 2,3,5,6-Tetrachlorophenol	232		9.418					ND	
99 2,3,4,6-Tetrachlorophenol	232		9.461					ND	
100 2-Naphthylamine	143		9.488					ND	
101 Diethyl phthalate	149		9.520					ND	
102 Hexadecane	57		9.525					ND	
103 4-tert-Octylphenol	135	9.151	9.566	-0.415	46	1080			NC
107 N-Nitro-o-toluidine	152	9.872	9.586	0.286	41	2739			NC
104 4-Chlorophenyl phenyl ethe	204		9.653					ND	
105 4-Nitroaniline	138		9.664					ND	
106 Fluorene	166		9.675					ND	
110 Diphenylamine	169		9.677					ND	
108 4,6-Dinitro-2-methylphenol	198		9.691					ND	
109 N-Nitrosodiphenylamine	169		9.755					ND	
61 Azobenzene	77		9.797					ND	
111 1,2-Diphenylhydrazine	77		9.797					ND	
112 1,3,5-Trinitrobenzene	213		9.896					ND	
113 Phenacetin	108		9.939					ND	
114 Phorate	121		9.944					ND	
115 2,3,7,8-TCDD TIC	322		10.000					ND	
117 Dimethoate	87		10.099					ND	
116 4-Bromophenyl phenyl ether	248		10.107					ND	
118 Hexachlorobenzene	284		10.193					ND	
119 Atrazine	200		10.225					ND	
120 4-Aminobiphenyl	169	9.872	10.265	-0.392	58	9497			NC
123 Pronamide	173	9.872	10.297	-0.425	56	4107			NC
124 Pentachloronitrobenzene	237		10.302					ND	
122 Pentachlorophenol	266		10.364					ND	
121 n-Octadecane	57		10.369					ND	
125 Disulfoton	88		10.419					ND	
127 Dinoseb	211		10.475					ND	
126 Phenanthrene	178		10.577					ND	
129 Hexachlorophene TIC	198		10.600					ND	
128 Anthracene	178		10.625					ND	
130 Carbazole	167		10.770					ND	
131 Methyl parathion	109		10.793					ND	
132 Di-n-butyl phthalate	149		11.069					ND	
133 Ethyl Parathion	109		11.189					ND	
134 4-Nitroquinoline-1-oxide	190		11.263					ND	
135 Methapyrilene	58		11.317					ND	
136 Isodrin	193		11.661					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
137 Fluoranthene	202		11.892					ND	
138 Benzidine	184		12.020					ND	
139 Pyrene	202		12.201					ND	
140 1,2,3,4 -Tetrachlorobenzen	216	12.330	12.215	0.115	49	3861			NC
141 p-Dimethylamino azobenzene	225	12.330	12.428	-0.098	43	12820			NC
142 Chlorobenzilate	139		12.542					ND	
143 Famphur	218		12.850					ND	
145 3,3'-Dimethylbenzidine	212		12.936					ND	
146 Kepone	272		13.030					ND	
144 Butyl benzyl phthalate	149		13.077					ND	
147 2-Acetylaminofluorene	181		13.363					ND	
148 Thionazin	97		13.789					ND	
150 4,4'-Methylene bis(2-chlor	231		13.881					ND	
149 3,3'-Dichlorobenzidine	252		14.055					ND	
151 Bis(2-ethylhexyl) phthalat	149		14.103					ND	
152 Benzo[a]anthracene	228		14.130					ND	
153 Chrysene	228		14.199					ND	
154 Sulfotepp	97		14.530					ND	
155 6-Methylchrysene	242		14.907					ND	
156 Di-n-octyl phthalate	149		15.439					ND	
157 7,12-Dimethylbenz(a)anthra	256		16.299					ND	
158 Benzo[b]fluoranthene	252		16.315					ND	
159 Benzo[k]fluoranthene	252		16.368					ND	
176 Benzo[e]pyrene	252		16.902					ND	
160 Benzo[a]pyrene	252		17.009					ND	
161 3-Methylcholanthrene	268		17.524					ND	
162 Dibenz[a,h]acridine	279		18.636					ND	
175 Dibenz[a,j]acridine	279		18.982					ND	
163 Indeno[1,2,3-cd]pyrene	276		19.392					ND	
164 Dibenz(a,h)anthracene	278		19.429					ND	
165 Benzo[g,h,i]perylene	276		20.012					ND	
185 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
168 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
173 3-Methylphenol	1		0.000					ND	
186 n,n'-Dimethylaniline	120		0.000					ND	
183 Octachlorocyclopentene	307		0.000					ND	
180 Aramite Peak 1	185		0.000					ND	
172 4-Chlorophenol	128		0.000					ND	
193 1,2,3,4-Tetrahydronaphthal	104		0.000					ND	
184 3-Chlorobenzoic Acid	139		0.000					ND	
179 4-Nitrobiphenyl	199		0.000					ND	
177 1-Phenyl-1-(4-methylphenyl	1		0.000					ND	
192 4-Chlorobenzoic Acid	139		0.000					ND	
187 1,2-Dibromo-3-Chloropropan	157		0.000					ND	
189 Benzotrichloride	159		0.000					ND	
190 Octachlorostyrene	308		0.000					ND	
170 2-Chlorobenzoic Acid	139		0.000					ND	
171 Diallate Peak 2	86		0.000					ND	
174 2-Bromonaphthalene	127		0.000					ND	
182 Aramite Peak 2	185		0.000					ND	
191 2,3-Dichlorophenol	162		0.000					ND	
167 o-Phenylphenol	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
169 Diallate Peak 1	86		0.000					ND	
166 2,5-Dichlorophenol	162		0.000					ND	
178 1-Phenyl-1-(2,4-dimethylph	1		0.000					ND	
188 Carbaryl	144		0.000					ND	
196 Trifluralin	306		0.000					ND	
181 Isosafrole	162		0.000					ND	
198 Pentachlorophenol_T	266		5.434					ND	
200 Benzidine_T	184		8.063					ND	
201 4,4'-DDE	246		8.377					ND	
202 4,4'-DDD	235		9.028					ND	
203 4,4'-DDT	235		9.628					ND	
S 204 Aramite, Total	185		1.000					ND	
S 205 Diallate	86		0.000					ND	
S 206 Total Cresols	108		0.000					ND	
S 207 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
S 208 Methyl Phenols,Total	108		0.000					ND	
T 195 1-Phenyl-1-(2,4-dimethylph	195		9.600					ND	
T 197 1-Phenyl-1-(4-methylphenyl	181		9.700					ND	
T 221 Phenyl ether TIC	170	12.330	11.463	0.830	0	19099		0.4528	
T 209 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

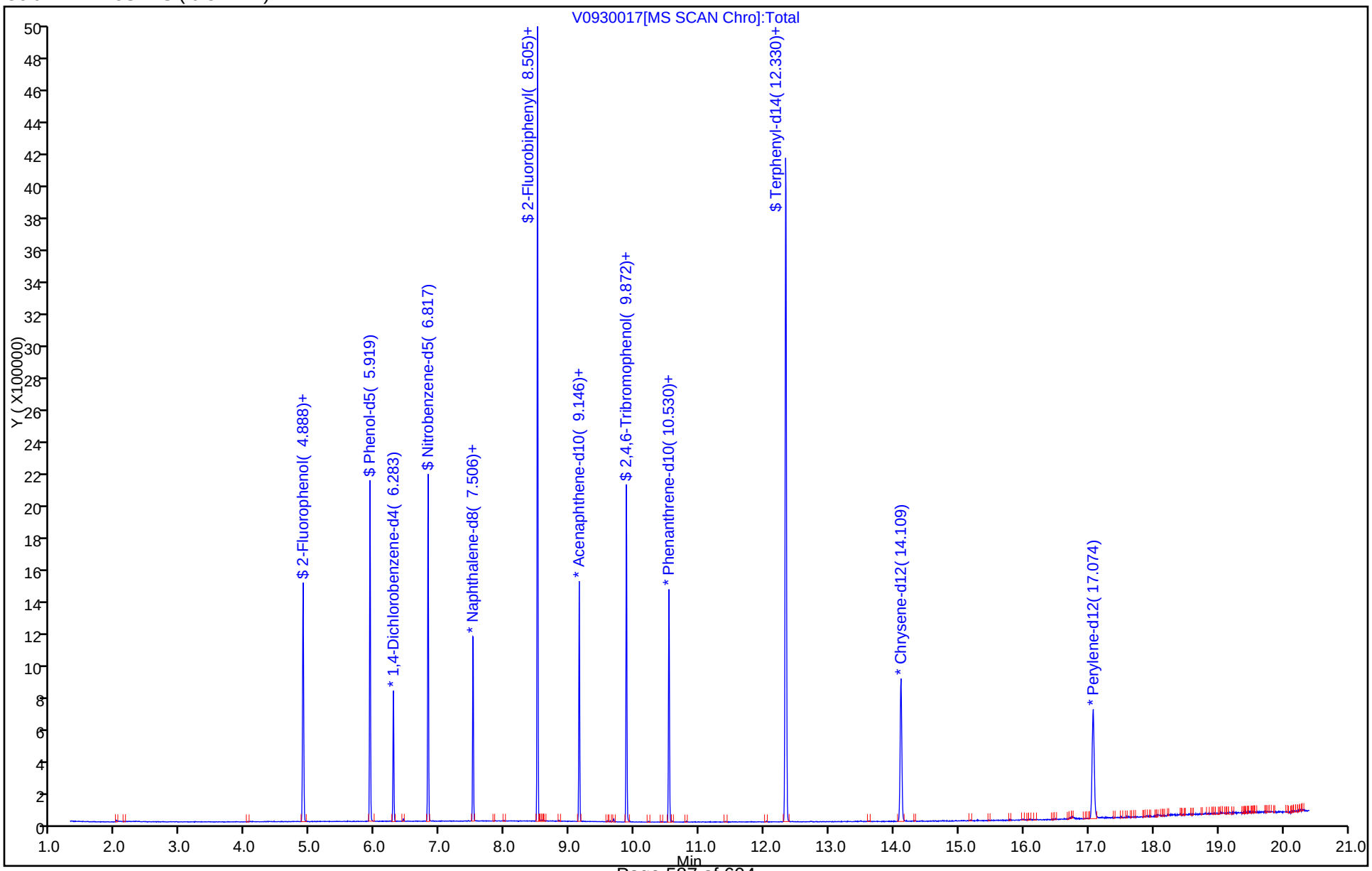
Report Date: 01-Oct-2015 04:57:12 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930017.D

Injection Date:	30-Sep-2015 12:51:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	MB 180-154864/1-A			Worklist Smp#:	17
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	BNA_CH731	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.: 180-47935-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-154864/2-A

Matrix: Water | Lab File ID: V0930018.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 09/25/2015 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 09/30/2015 13:20

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 155320 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	16.6		2.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	84		28-109
367-12-4	2-Fluorophenol (Surr)	81		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	90		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	76		27-114
4165-62-2	Phenol-d5 (Surr)	85		25-105
1718-51-0	Terphenyl-d14 (Surr)	86		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930018.D
Lims ID: LCS 180-154864/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Sep-2015 13:20:30 ALS Bottle#: 17 Worklist Smp#: 18
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008750-018
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Oct-2015 04:56:37 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: piccolinov Date: 01-Oct-2015 04:51:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.284	6.288	-0.004	94	111316	8.00	8.00	
* 2 Naphthalene-d8	136	7.507	7.522	-0.015	100	469773	8.00	8.00	
* 3 Acenaphthene-d10	164	9.147	9.167	-0.020	92	297948	8.00	8.00	
* 4 Phenanthrene-d10	188	10.531	10.551	-0.020	97	589488	8.00	8.00	
* 5 Chrysene-d12	240	14.110	14.151	-0.041	96	683879	8.00	8.00	
* 6 Perylene-d12	264	17.075	17.127	-0.052	98	649886	8.00	8.00	
$ 7 2-Fluorophenol	112	4.889	4.883	0.006	92	530405	40.0	32.4	
$ 8 Phenol-d5	99	5.920	5.924	-0.004	96	724612	40.0	33.9	
$ 9 Nitrobenzene-d5	82	6.818	6.827	-0.009	89	692423	40.0	30.3	
$ 10 2-Fluorobiphenyl	172	8.501	8.521	-0.020	100	1739615	40.0	33.4	
$ 11 2,4,6-Tribromophenol	330	9.873	9.894	-0.021	94	293234	40.0	35.9	
$ 12 Terphenyl-d14	244	12.331	12.362	-0.031	99	2221328	40.0	34.2	
13 1,4-Dioxane	88	1.476	1.448	0.028	89	187714	40.0	33.2	
14 N-Nitrosodimethylamine	74	2.143	2.094	0.049	90	255321	40.0	35.6	
15 Pyridine	79	2.197	2.164	0.033	96	495883	40.0	36.9	
26 Benzaldehyde	77	5.829	5.834	-0.005	94	358643	40.0	32.3	
27 Phenol	94	5.936	5.940	-0.004	97	773834	40.0	33.1	
28 Aniline	93	5.947	5.946	0.001	92	827540	40.0	31.4	
29 Bis(2-chloroethyl)ether	93	6.016	6.021	-0.005	97	530149	40.0	32.8	
31 2-Chlorophenol	128	6.070	6.074	-0.004	96	651463	40.0	32.9	
32 n-Decane	43	6.134	6.143	-0.009	88	531122	40.0	28.1	
33 1,3-Dichlorobenzene	146	6.225	6.229	-0.004	98	708622	40.0	31.2	
34 1,4-Dichlorobenzene	146	6.300	6.304	-0.004	93	722648	40.0	31.0	
36 Benzyl alcohol	108	6.417	6.421	-0.004	91	394151	40.0	33.2	
37 1,2-Dichlorobenzene	146	6.449	6.459	-0.010	97	701635	40.0	31.5	
38 2-Methylphenol	108	6.529	6.533	-0.004	97	576755	40.0	33.5	
39 Indene	116	6.540	6.544	-0.004	92	1055125	40.0	31.6	
40 2,2'-oxybis[1-chloropropan	45	6.551	6.560	-0.009	91	733996	40.0	31.0	
44 N-Nitrosodi-n-propylamine	70	6.668	6.678	-0.010	73	418491	40.0	33.1	
43 Acetophenone	105	6.668	6.678	-0.010	86	813465	40.0	31.1	
45 4-Methylphenol	108	6.674	6.683	-0.009	88	617335	40.0	34.0	
47 Hexachloroethane	117	6.786	6.795	-0.009	94	303548	40.0	29.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
48 Nitrobenzene	77	6.834	6.843	-0.009	88	682209	40.0	30.5	
50 Isophorone	82	7.058	7.068	-0.010	99	1166668	40.0	31.8	
51 2-Nitrophenol	139	7.144	7.153	-0.009	96	381850	40.0	33.9	
52 2,4-Dimethylphenol	107	7.170	7.185	-0.015	97	702572	40.0	32.2	
56 Benzoic acid	122	7.245	7.228	0.017	88	337549	40.0	33.1	
55 Bis(2-chloroethoxy)methane	93	7.256	7.271	-0.015	98	703248	40.0	31.8	
57 2,4-Dichlorophenol	162	7.368	7.383	-0.015	94	615938	40.0	32.9	
59 1,2,4-Trichlorobenzene	180	7.453	7.468	-0.015	94	705457	40.0	31.3	
60 Naphthalene	128	7.528	7.543	-0.015	97	1985547	40.0	31.0	
62 4-Chloroaniline	127	7.566	7.580	-0.014	96	872521	40.0	33.1	
63 2,6-Dichlorophenol	162	7.582	7.596	-0.014	97	619681	40.0	33.1	
64 Hexachlorobutadiene	225	7.646	7.661	-0.015	96	445248	40.0	30.9	
67 Caprolactam	113	7.865	7.869	-0.004	79	200305	40.0	35.6	
70 4-Chloro-3-methylphenol	107	8.004	8.018	-0.014	96	615647	40.0	33.1	
72 2-Methylnaphthalene	142	8.175	8.189	-0.014	92	1481651	40.0	32.5	
75 1-Methylnaphthalene	142	8.265	8.280	-0.015	93	1315896	40.0	32.9	
76 Hexachlorocyclopentadiene	237	8.324	8.344	-0.020	95	519753	40.0	32.4	
77 1,2,4,5-Tetrachlorobenzene	216	8.330	8.350	-0.020	97	767156	40.0	32.4	
78 2,4,6-Trichlorophenol	196	8.431	8.446	-0.015	92	523416	40.0	35.5	
79 2,4,5-Trichlorophenol	196	8.463	8.478	-0.015	94	540600	40.0	35.0	
80 1,1'-Biphenyl	154	8.602	8.617	-0.015	94	1947749	40.0	33.9	
81 2-Chloronaphthalene	162	8.629	8.644	-0.015	96	1473393	40.0	32.6	
82 2-Nitroaniline	65	8.704	8.724	-0.020	87	429205	40.0	33.6	
86 Dimethyl phthalate	163	8.858	8.873	-0.015	99	1706821	40.0	35.4	
87 1,3-Dinitrobenzene	168	8.891	8.911	-0.021	89	297423	40.0	38.8	
88 2,6-Dinitrotoluene	165	8.917	8.937	-0.020	94	398341	40.0	36.4	
89 Acenaphthylene	152	9.019	9.033	-0.014	98	2324289	40.0	33.5	
90 3-Nitroaniline	138	9.083	9.098	-0.015	96	439173	40.0	37.5	
92 2,4-Dinitrophenol	184	9.174	9.194	-0.020	87	559165	80.0	74.3	
91 Acenaphthene	153	9.179	9.194	-0.015	92	1461620	40.0	33.3	
93 4-Nitrophenol	109	9.211	9.231	-0.020	91	542791	80.0	69.3	
94 2,4-Dinitrotoluene	165	9.291	9.311	-0.020	95	560558	40.0	38.1	
95 Dibenzofuran	168	9.334	9.354	-0.020	96	2256833	40.0	34.5	
99 2,3,4,6-Tetrachlorophenol	232	9.441	9.461	-0.020	71	506927	40.0	35.1	
101 Diethyl phthalate	149	9.505	9.520	-0.015	98	1757481	40.0	34.9	
102 Hexadecane	57	9.510	9.525	-0.015	96	949516	40.0	30.8	
104 4-Chlorophenyl phenyl ethe	204	9.633	9.653	-0.020	90	956474	40.0	35.4	
105 4-Nitroaniline	138	9.649	9.664	-0.015	84	465642	40.0	37.6	
106 Fluorene	166	9.654	9.675	-0.021	94	1845380	40.0	34.4	
108 4,6-Dinitro-2-methylphenol	198	9.676	9.691	-0.015	91	790425	80.0	78.6	
109 N-Nitrosodiphenylamine	169	9.740	9.755	-0.015	61	2758918	80.0	67.4	
61 Azobenzene	77	9.783	9.797	-0.014	98	1695911	40.0	30.7	
111 1,2-Diphenylhydrazine	77	9.783	9.797	-0.014	97	1695911	40.0	30.7	
116 4-Bromophenyl phenyl ether	248	10.087	10.107	-0.020	63	598257	40.0	36.1	
118 Hexachlorobenzene	284	10.173	10.193	-0.020	95	621140	40.0	34.4	
119 Atrazine	200	10.205	10.225	-0.020	95	445239	40.0	27.7	
122 Pentachlorophenol	266	10.344	10.364	-0.020	92	818261	80.0	66.3	
121 n-Octadecane	57	10.349	10.369	-0.020	97	996431	40.0	31.1	
126 Phenanthrene	178	10.552	10.577	-0.025	97	2934967	40.0	32.7	
128 Anthracene	178	10.605	10.625	-0.020	96	3015795	40.0	33.7	
130 Carbazole	167	10.744	10.770	-0.026	95	2700250	40.0	34.2	
132 Di-n-butyl phthalate	149	11.043	11.069	-0.026	100	3122402	40.0	34.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
137 Fluoranthene	202	11.866	11.892	-0.026	97	3327920	40.0	34.7	
138 Benzidine	184	11.989	12.020	-0.031	99	671076	40.0	15.5	
139 Pyrene	202	12.171	12.201	-0.030	98	3399887	40.0	32.3	
144 Butyl benzyl phthalate	149	13.036	13.077	-0.041	97	1412614	40.0	33.3	
149 3,3'-Dichlorobenzidine	252	14.008	14.055	-0.047	73	1135810	40.0	30.5	
151 Bis(2-ethylhexyl) phthalat	149	14.056	14.103	-0.047	95	1993163	40.0	34.0	
152 Benzo[a]anthracene	228	14.088	14.130	-0.042	97	3298083	40.0	33.1	
153 Chrysene	228	14.158	14.199	-0.041	97	3202763	40.0	34.3	
156 Di-n-octyl phthalate	149	15.381	15.439	-0.058	99	3426777	40.0	32.7	
158 Benzo[b]fluoranthene	252	16.263	16.315	-0.052	96	3223074	40.0	32.0	
159 Benzo[k]fluoranthene	252	16.321	16.368	-0.047	98	3479252	40.0	34.6	
160 Benzo[a]pyrene	252	16.952	17.009	-0.057	78	3270916	40.0	34.1	
163 Indeno[1,2,3-cd]pyrene	276	19.329	19.392	-0.063	99	3832613	40.0	35.0	
164 Dibenz(a,h)anthracene	278	19.361	19.429	-0.068	91	3282603	40.0	35.4	
165 Benzo[g,h,i]perylene	276	19.943	20.012	-0.069	99	3331889	40.0	34.9	
S 206 Total Cresols	108				0		80.0	67.5	
S 208 Methyl Phenols,Total	108				0		80.0	67.5	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

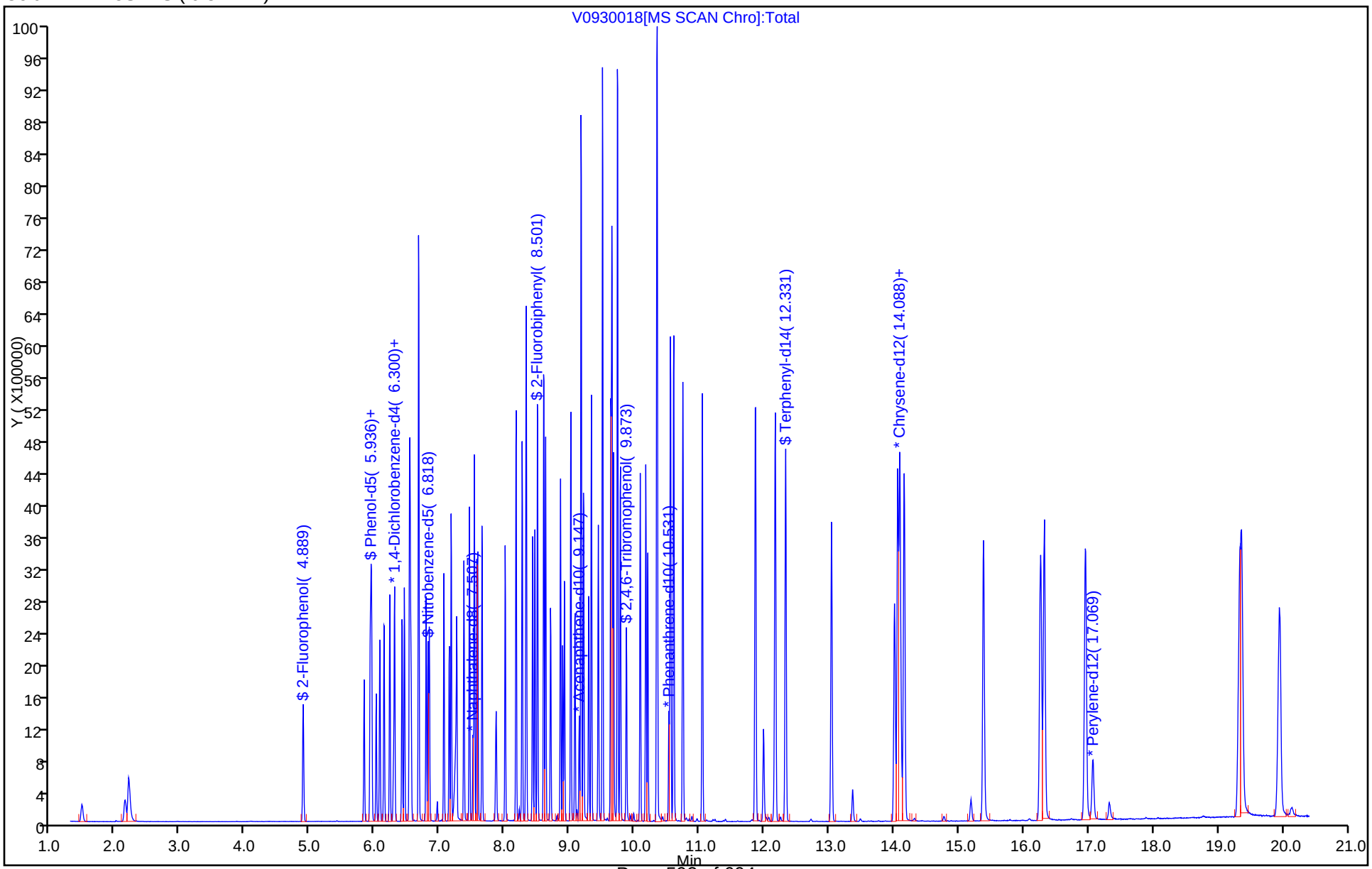
Report Date: 01-Oct-2015 04:57:16 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930018.D

Injection Date:	30-Sep-2015 13:20:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	LCS 180-154864/2-A			Worklist Smp#:	18
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	BNA_CH731	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.: 180-47935-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-154864/3-A

Matrix: Water | Lab File ID: V0930019.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 09/25/2015 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 09/30/2015 13:48

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.: 155320 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	13.9		2.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	72		28-109
367-12-4	2-Fluorophenol (Surr)	71		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	83		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	69		27-114
4165-62-2	Phenol-d5 (Surr)	71		25-105
1718-51-0	Terphenyl-d14 (Surr)	79		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930019.D
Lims ID: LCSD 180-154864/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 30-Sep-2015 13:48:30 ALS Bottle#: 18 Worklist Smp#: 19
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008750-019
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Oct-2015 04:56:37 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: piccolinov Date: 01-Oct-2015 04:51:59

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	6.284	6.288	-0.004	96	135392	8.00	8.00	
* 2 Naphthalene-d8	136	7.507	7.522	-0.015	100	539263	8.00	8.00	
* 3 Acenaphthene-d10	164	9.147	9.167	-0.020	91	348589	8.00	8.00	
* 4 Phenanthrene-d10	188	10.531	10.551	-0.020	96	676907	8.00	8.00	
* 5 Chrysene-d12	240	14.115	14.151	-0.036	96	773406	8.00	8.00	
* 6 Perylene-d12	264	17.080	17.127	-0.047	98	749068	8.00	8.00	
$ 7 2-Fluorophenol	112	4.889	4.883	0.006	92	567441	40.0	28.5	
$ 8 Phenol-d5	99	5.920	5.924	-0.004	96	743220	40.0	28.6	
$ 9 Nitrobenzene-d5	82	6.818	6.827	-0.009	89	720494	40.0	27.5	
$ 10 2-Fluorobiphenyl	172	8.501	8.521	-0.020	99	1764992	40.0	29.0	
$ 11 2,4,6-Tribromophenol	330	9.874	9.894	-0.020	94	311202	40.0	33.2	
$ 12 Terphenyl-d14	244	12.331	12.362	-0.031	100	2309681	40.0	31.4	
13 1,4-Dioxane	88	1.481	1.448	0.033	89	191184	40.0	27.8	
14 N-Nitrosodimethylamine	74	2.144	2.094	0.050	89	275386	40.0	31.6	
15 Pyridine	79	2.202	2.164	0.038	96	528344	40.0	32.4	
26 Benzaldehyde	77	5.830	5.834	-0.004	95	441731	40.0	32.7	
27 Phenol	94	5.936	5.940	-0.004	96	825873	40.0	29.1	
28 Aniline	93	5.947	5.946	0.001	92	895159	40.0	27.9	
29 Bis(2-chloroethyl)ether	93	6.017	6.021	-0.004	97	583246	40.0	29.7	
31 2-Chlorophenol	128	6.070	6.074	-0.004	96	705056	40.0	29.3	
32 n-Decane	43	6.134	6.143	-0.009	88	573116	40.0	24.9	
33 1,3-Dichlorobenzene	146	6.225	6.229	-0.004	98	777077	40.0	28.1	
34 1,4-Dichlorobenzene	146	6.300	6.304	-0.004	94	789172	40.0	27.9	
36 Benzyl alcohol	108	6.412	6.421	-0.009	91	429613	40.0	29.8	
37 1,2-Dichlorobenzene	146	6.449	6.459	-0.010	96	745777	40.0	27.5	
38 2-Methylphenol	108	6.529	6.533	-0.004	97	627653	40.0	30.0	
39 Indene	116	6.535	6.544	-0.009	90	1130334	40.0	27.9	
40 2,2'-oxybis[1-chloropropan	45	6.551	6.560	-0.009	91	777026	40.0	27.0	
44 N-Nitrosodi-n-propylamine	70	6.668	6.678	-0.010	72	435348	40.0	28.3	
43 Acetophenone	105	6.668	6.678	-0.010	82	852969	40.0	26.8	
45 4-Methylphenol	108	6.674	6.683	-0.009	89	663232	40.0	30.1	
47 Hexachloroethane	117	6.786	6.795	-0.009	93	329865	40.0	26.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
48 Nitrobenzene	77	6.834	6.843	-0.009	88	725073	40.0	28.3	
50 Isophorone	82	7.058	7.068	-0.010	99	1281076	40.0	30.5	
51 2-Nitrophenol	139	7.144	7.153	-0.009	96	408268	40.0	31.6	
52 2,4-Dimethylphenol	107	7.170	7.185	-0.015	97	753420	40.0	30.1	
56 Benzoic acid	122	7.245	7.228	0.017	89	409968	40.0	34.8	
55 Bis(2-chloroethoxy)methane	93	7.256	7.271	-0.015	99	757329	40.0	29.8	
57 2,4-Dichlorophenol	162	7.368	7.383	-0.015	93	672450	40.0	31.3	
59 1,2,4-Trichlorobenzene	180	7.454	7.468	-0.014	94	771267	40.0	29.8	
60 Naphthalene	128	7.528	7.543	-0.015	97	2183727	40.0	29.7	
62 4-Chloroaniline	127	7.566	7.580	-0.014	97	930479	40.0	30.7	
63 2,6-Dichlorophenol	162	7.582	7.596	-0.014	98	670069	40.0	31.1	
64 Hexachlorobutadiene	225	7.646	7.661	-0.015	96	478821	40.0	29.0	
67 Caprolactam	113	7.865	7.869	-0.004	80	213649	40.0	33.1	
70 4-Chloro-3-methylphenol	107	8.004	8.018	-0.014	95	664288	40.0	31.2	
72 2-Methylnaphthalene	142	8.169	8.189	-0.020	92	1582736	40.0	30.3	
75 1-Methylnaphthalene	142	8.266	8.280	-0.014	93	1378154	40.0	30.0	
76 Hexachlorocyclopentadiene	237	8.324	8.344	-0.020	95	561437	40.0	29.9	
77 1,2,4,5-Tetrachlorobenzene	216	8.330	8.350	-0.020	97	835897	40.0	30.2	
78 2,4,6-Trichlorophenol	196	8.426	8.446	-0.020	92	557729	40.0	32.4	
79 2,4,5-Trichlorophenol	196	8.463	8.478	-0.015	94	586178	40.0	32.4	
80 1,1'-Biphenyl	154	8.597	8.617	-0.020	94	2026232	40.0	30.1	
81 2-Chloronaphthalene	162	8.629	8.644	-0.015	95	1583198	40.0	30.0	
82 2-Nitroaniline	65	8.704	8.724	-0.020	85	457778	40.0	30.6	
86 Dimethyl phthalate	163	8.859	8.873	-0.014	99	1820451	40.0	32.3	
87 1,3-Dinitrobenzene	168	8.891	8.911	-0.020	90	318303	40.0	35.5	
88 2,6-Dinitrotoluene	165	8.917	8.937	-0.020	96	435090	40.0	34.0	
89 Acenaphthylene	152	9.014	9.033	-0.019	98	2483835	40.0	30.6	
90 3-Nitroaniline	138	9.078	9.098	-0.020	94	464346	40.0	33.9	
92 2,4-Dinitrophenol	184	9.174	9.194	-0.020	90	617350	80.0	70.3	
91 Acenaphthene	153	9.174	9.194	-0.020	90	1562665	40.0	30.4	
93 4-Nitrophenol	109	9.211	9.231	-0.020	92	588736	80.0	64.3	
94 2,4-Dinitrotoluene	165	9.291	9.311	-0.020	95	604036	40.0	35.1	
95 Dibenzofuran	168	9.334	9.354	-0.020	96	2405720	40.0	31.4	
99 2,3,4,6-Tetrachlorophenol	232	9.441	9.461	-0.020	72	537268	40.0	31.8	
101 Diethyl phthalate	149	9.500	9.520	-0.020	98	1828099	40.0	31.0	
102 Hexadecane	57	9.505	9.525	-0.020	96	998420	40.0	28.2	
104 4-Chlorophenyl phenyl ethe	204	9.633	9.653	-0.020	89	1000948	40.0	31.6	
105 4-Nitroaniline	138	9.644	9.664	-0.020	85	489965	40.0	33.8	
106 Fluorene	166	9.649	9.675	-0.026	95	1971179	40.0	31.4	
108 4,6-Dinitro-2-methylphenol	198	9.676	9.691	-0.015	94	859894	80.0	74.5	
109 N-Nitrosodiphenylamine	169	9.735	9.755	-0.020	61	2924821	80.0	62.3	
61 Azobenzene	77	9.777	9.797	-0.020	99	1763073	40.0	27.8	
111 1,2-Diphenylhydrazine	77	9.777	9.797	-0.020	97	1763073	40.0	27.8	
116 4-Bromophenyl phenyl ether	248	10.087	10.107	-0.020	63	635778	40.0	33.4	
118 Hexachlorobenzene	284	10.173	10.193	-0.020	95	670171	40.0	32.4	
119 Atrazine	200	10.205	10.225	-0.020	94	474523	40.0	25.7	
122 Pentachlorophenol	266	10.344	10.364	-0.020	93	887728	80.0	62.6	
121 n-Octadecane	57	10.349	10.369	-0.020	97	1064473	40.0	27.4	
126 Phenanthrene	178	10.552	10.577	-0.025	97	3137129	40.0	30.4	
128 Anthracene	178	10.600	10.625	-0.025	96	3188107	40.0	31.0	
130 Carbazole	167	10.744	10.770	-0.026	95	2839083	40.0	31.4	
132 Di-n-butyl phthalate	149	11.044	11.069	-0.025	100	3358685	40.0	32.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
137 Fluoranthene	202	11.866	11.892	-0.026	96	3588419	40.0	32.6	
138 Benzidine	184	11.989	12.020	-0.031	99	724797	40.0	14.8	
139 Pyrene	202	12.171	12.201	-0.030	98	3599362	40.0	30.2	
144 Butyl benzyl phthalate	149	13.041	13.077	-0.036	97	1490358	40.0	31.1	
149 3,3'-Dichlorobenzidine	252	14.014	14.055	-0.041	73	1206885	40.0	28.6	
151 Bis(2-ethylhexyl) phthalat	149	14.062	14.103	-0.041	95	2108828	40.0	31.8	
152 Benzo[a]anthracene	228	14.094	14.130	-0.036	97	3518209	40.0	31.2	
153 Chrysene	228	14.163	14.199	-0.036	96	3512286	40.0	33.2	
156 Di-n-octyl phthalate	149	15.387	15.439	-0.052	99	3652276	40.0	30.2	
158 Benzo[b]fluoranthene	252	16.268	16.315	-0.047	97	3456730	40.0	29.8	
159 Benzo[k]fluoranthene	252	16.327	16.368	-0.041	99	3691413	40.0	31.8	
160 Benzo[a]pyrene	252	16.963	17.009	-0.046	82	3517634	40.0	31.9	
163 Indeno[1,2,3-cd]pyrene	276	19.335	19.392	-0.058	99	4079392	40.0	32.3	
164 Dibenz(a,h)anthracene	278	19.372	19.429	-0.057	90	3521762	40.0	33.0	
165 Benzo[g,h,i]perylene	276	19.954	20.012	-0.058	99	3508490	40.0	31.9	
S 206 Total Cresols	108				0		80.0	60.0	
S 208 Methyl Phenols,Total	108				0		80.0	60.0	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

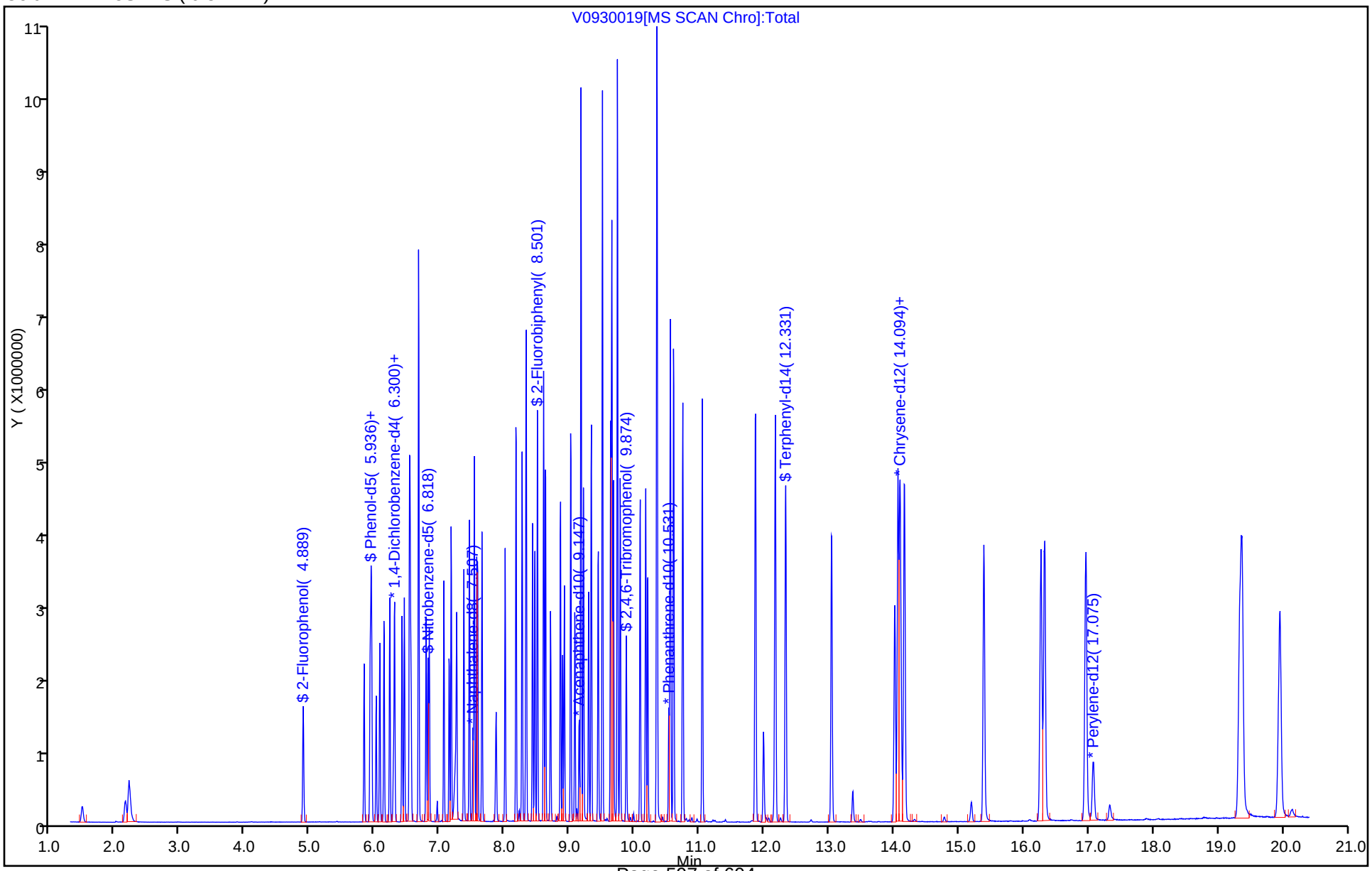
Report Date: 01-Oct-2015 04:57:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150930-8750.b\V0930019.D

Injection Date:	30-Sep-2015 13:48:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	LCSD 180-154864/3-A			Worklist Smp#:	19
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Instrument ID: CH731 Start Date: 08/31/2015 13:24

Analysis Batch Number: 152241 End Date: 08/31/2015 18:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-152241/2		08/31/2015 13:24	1	V0901002.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/3		08/31/2015 13:40	1	V0901003.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/4		08/31/2015 14:08	1	V0901004.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/5		08/31/2015 14:36	1	V0901005.D	Rxi-5SilMS 0.32(mm)
ICIS 180-152241/6		08/31/2015 15:03	1	V0901006.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/7		08/31/2015 15:31	1	V0901007.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/8		08/31/2015 15:59	1	V0901008.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/9		08/31/2015 16:27	1	V0901009.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/10		08/31/2015 16:55	1	V0901010.D	Rxi-5SilMS 0.32(mm)
ICV 180-152241/11		08/31/2015 17:22	1	V0901011.D	Rxi-5SilMS 0.32(mm)
ICV 180-152241/12		08/31/2015 17:50	1	V0901012.D	Rxi-5SilMS 0.32(mm)
ICV 180-152241/13		08/31/2015 18:17	1	V0901013.D	Rxi-5SilMS 0.32(mm)
ICV 180-152241/14		08/31/2015 18:45	1	V0901014.D	Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Instrument ID: CH731 Start Date: 09/30/2015 06:01

Analysis Batch Number: 155320 End Date: 09/30/2015 17:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-155320/2		09/30/2015 06:01	1	V0930002.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-155320/3		09/30/2015 06:17	1	V0930003.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		09/30/2015 06:45	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		09/30/2015 07:13	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		09/30/2015 07:41	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		09/30/2015 12:23	1		Rxi-5SilMS 0.32(mm)
MB 180-154864/1-A		09/30/2015 12:51	1	V0930017.D	Rxi-5SilMS 0.32(mm)
LCS 180-154864/2-A		09/30/2015 13:20	1	V0930018.D	Rxi-5SilMS 0.32(mm)
LCSD 180-154864/3-A		09/30/2015 13:48	1	V0930019.D	Rxi-5SilMS 0.32(mm)
180-47935-1	HD-MW-129-0/1-0	09/30/2015 14:45	1	V0930021.D	Rxi-5SilMS 0.32(mm)
180-47935-2	HD-MW-131-0/1-0	09/30/2015 15:13	1	V0930022.D	Rxi-5SilMS 0.32(mm)
180-47935-3	HD-MW-132-0/1-0	09/30/2015 15:42	1	V0930023.D	Rxi-5SilMS 0.32(mm)
180-47935-4	HD-MW-134-0/1-0	09/30/2015 16:10	1	V0930024.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		09/30/2015 16:39	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		09/30/2015 17:07	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		09/30/2015 17:35	1		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-47935-1

SDG No.:

Batch Number: 154864 Batch Start Date: 09/25/15 13:55 Batch Analyst: Trout, Bill

Batch Method: 3520C Batch End Date: 09/26/15 08:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	FirstAdjustpH	OPLVISPKMIX1i 00043	OPQL8270SURi 00034
MB 180-154864/1		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2		25 uL
LCS 180-154864/2		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2	25 uL	25 uL
LCSD 180-154864/3		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2	25 uL	25 uL
180-47935-A-1	HD-MW-129-0/1-0	3520C, 8270D LL	T	7 SU	270 mL	0.25 mL	2		25 uL
180-47935-A-2	HD-MW-131-0/1-0	3520C, 8270D LL	T	7 SU	270 mL	0.25 mL	2		25 uL
180-47935-A-3	HD-MW-132-0/1-0	3520C, 8270D LL	T	7 SU	270 mL	0.25 mL	2		25 uL
180-47935-A-4	HD-MW-134-0/1-0	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	0815
Time the first extraction started 24 hr	1355
N-evap #	1
Na2SO4 Lot Number	1648567
pH Paper Lot Number	Ph paper HC432654
Prep Solvent Lot #	1702353
Prep Solvent Name	Methylene chloride
Prep Solvent Volume Used	100 mL
Person's name who did the prep	BT
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: 9/18/2015	COC No: TAP20150918
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-129-0/1-0	9/18/15	10:10	Groundwater	Water	5	X			X	
HD-MW-131-0/1-0	9/18/15	10:07	Groundwater	Water	5	X			X	
HD-MW-132-0/1-0	9/18/15	11:57	Groundwater	Water	5	X			X	
HD-MW-134-0/1-0	9/18/15	13:32	Groundwater	Water	5	X			X	
HD-MW-114-0/1-0	9/18/15	12:20	Groundwater	Water	3	X				
HD-MW-46-0/1-0	9/18/15	14:00	Groundwater	Water	3	X				
HD-QC4-0/1-2	9/18/15	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

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* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **CLP Like Deliverables**

Relinquished by (Print and Sign):	Company: GSC	Date/Time: 9/18/15 1410	Received by:	Company: 9/18/15	Date/Time: 1410
Relinquished by:	Company: TAPGP	Date/Time: 9/18/15 1615	Received by: Deedee Watson	Company: TAP	Date/Time: 9-19-15
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9:03

180-47935 Waybill


ORIGIN ID:KPDA (61( ) 337-9992
SAMPLE RECEIPT
TEST AMERICA
1008 WEST 9TH AVE
KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DATE: 18SEP15
ACTWGT: 30.00 LB
CAD: 8490299/INET3670

BILL RECIPIENT

TO SAMPLE REC EIPT
TEST AMERI CA - PITTSBURGH
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058
REF:
INV:
PO:
DEPT:

FedEx Express

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 7745 4723 9730

XØ AGCA

15238
PA-US PIT

Uncorrected temp 4.3 °C
Thermometer ID
CF -.0 Initials
PT-WI-SR-001 effective 7/26/13

Part # 156297-435 RIT2 07/15

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-47935-1

Login Number: 47935
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	