TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 180-48073-1

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 11:48 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.

General Chemistry

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: 180-48073-1 REVISED

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

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

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

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

RECEIPT
The samples were received on 9/24/2015 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

VOLATILES
The following samples were diluted to bring the concentration of target analytes within the calibration range: HD-MW-49S-0/1-0 (180-48073-4) and HD-MW-94-0/1-0 (180-48073-5). Elevated reporting limits (RLs) are provided.

The following analytes were outside the %D limits but within the method criteria for number of allowed targets out: 2-Hexanone, 4-Methyl-2-pentanone, and cis-1,3-Dichloropropene: (CCVIS 180-155577/2)

The following analytes are outside the %D criteria but within the method criteria of the number of analytes allowed out: 1,2-Dichloroethane-d4 (Surr), Bromoform, cis-1,3-Dichloropropene: (CCVIS 180-155711/2)

The following analyte was outside the %D criteria but within the method criteria of number of analytes allowed out: Chloroethane. A low level calibration verification standard was analyzed with acceptable recovery: (CCVIS 180-155884/2)

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

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

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48073-1

Client Sample ID: HD-MW-11-0/1-0 — Lab Sample ID: 180-48073-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.43	J	1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	2.6		1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.37	J	1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-16S-0/1-0 — Lab Sample ID: 180-48073-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.28	J	1.0	0.28	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	42		1.0	0.24	ug/L	1		8260C	Total/NA
Trichloroethene	5.6		1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	6.7		1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-16D-0/1-0 — Lab Sample ID: 180-48073-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.1		1.0	0.24	ug/L	1		8260C	Total/NA
Trichloroethene	19		1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-49S-0/1-0 — Lab Sample ID: 180-48073-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	160	J	200	59	ug/L	200		8260C	Total/NA
1,1-Dichloroethane	580		200	23	ug/L	200		8260C	Total/NA
cis-1,2-Dichloroethene	3900		200	47	ug/L	200		8260C	Total/NA
1,1,1-Trichloroethane	830		200	57	ug/L	200		8260C	Total/NA
Trichloroethene	1700		200	29	ug/L	200		8260C	Total/NA
Tetrachloroethene	170	J	200	30	ug/L	200		8260C	Total/NA
1,4-Dioxane	4.9		1.9	0.049	ug/L	1		8270D LL	Total/NA

Client Sample ID: HD-MW-94-0/1-0 — Lab Sample ID: 180-48073-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	13		2.5	0.57	ug/L	2.5		8260C	Total/NA
1,1-Dichloroethene	3.4		2.5	0.74	ug/L	2.5		8260C	Total/NA
trans-1,2-Dichloroethene	17		2.5	0.42	ug/L	2.5		8260C	Total/NA
1,1-Dichloroethane	8.8		2.5	0.29	ug/L	2.5		8260C	Total/NA
cis-1,2-Dichloroethene	1100	E	2.5	0.59	ug/L	2.5		8260C	Total/NA
1,1,1-Trichloroethane	2.2	J	2.5	0.72	ug/L	2.5		8260C	Total/NA
Trichloroethene	440	E	2.5	0.36	ug/L	2.5		8260C	Total/NA
Tetrachloroethene	33		2.5	0.37	ug/L	2.5		8260C	Total/NA
Vinyl chloride - DL	14	J	25	5.7	ug/L	25		8260C	Total/NA
trans-1,2-Dichloroethene - DL	18	J	25	4.2	ug/L	25		8260C	Total/NA
1,1-Dichloroethane - DL	9.3	J	25	2.9	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene - DL	1200		25	5.9	ug/L	25		8260C	Total/NA
Trichloroethene - DL	450		25	3.6	ug/L	25		8260C	Total/NA
Tetrachloroethene - DL	36		25	3.7	ug/L	25		8260C	Total/NA

Client Sample ID: HD-MW-57-0/1-0 — Lab Sample ID: 180-48073-6

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-MW-57-0/1-0 (Continued)

Lab Sample ID: 180-48073-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	15		1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.63	J	1.0	0.12	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.24	ug/L	1		8260C	Total/NA
Chloroform	1.6		1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	40		1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.6		1.0	0.15	ug/L	1		8260C	Total/NA
Cr (VI)	0.039		0.010	0.0019	mg/L	1		7196A	Total/NA
Cr (VI)	0.038		0.010	0.0019	mg/L	1		7196A	Dissolved

Client Sample ID: HD-QC7-0/1-2

Lab Sample ID: 180-48073-7

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: HD-MW-11-0/1-0
Date Collected: 09/23/15 14:15
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/01/15 15:20	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/01/15 15:20	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/01/15 15:20	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/01/15 15:20	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/01/15 15:20	1
Acetone	5.0	U	5.0	2.5	ug/L			10/01/15 15:20	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/01/15 15:20	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/01/15 15:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/01/15 15:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/01/15 15:20	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/01/15 15:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/01/15 15:20	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/01/15 15:20	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/01/15 15:20	1
Chloroform	**0.43**	**J**	1.0	0.17	ug/L			10/01/15 15:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/01/15 15:20	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/01/15 15:20	1
Benzene	1.0	U	1.0	0.11	ug/L			10/01/15 15:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/15 15:20	1
Trichloroethene	**2.6**		1.0	0.14	ug/L			10/01/15 15:20	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/01/15 15:20	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/01/15 15:20	1
cis-1,3-Dichloropropene	1.0	U ^c	1.0	0.19	ug/L			10/01/15 15:20	1
4-Methyl-2-pentanone (MIBK)	5.0	U ^c	5.0	0.53	ug/L			10/01/15 15:20	1
Toluene	1.0	U	1.0	0.15	ug/L			10/01/15 15:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/01/15 15:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/01/15 15:20	1
Tetrachloroethene	**0.37**	**J**	1.0	0.15	ug/L			10/01/15 15:20	1
2-Hexanone	5.0	U ^c	5.0	0.16	ug/L			10/01/15 15:20	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/15 15:20	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/01/15 15:20	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/15 15:20	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/01/15 15:20	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/01/15 15:20	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/01/15 15:20	1
Styrene	1.0	U	1.0	0.097	ug/L			10/01/15 15:20	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/01/15 15:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/01/15 15:20	1
Acrylonitrile	20	U	20	0.55	ug/L			10/01/15 15:20	1
1,4-Dioxane	200	U	200	34	ug/L			10/01/15 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 135*		*10/01/15 15:20*	*1*
Toluene-d8 (Surr)	*97*		*71 - 118*		*10/01/15 15:20*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 118*		*10/01/15 15:20*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 128*		*10/01/15 15:20*	*1*

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

Client Sample ID: HD-MW-16S-0/1-0
Date Collected: 09/23/15 12:15
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	**0.28**	**J**	1.0	0.28	ug/L			10/02/15 22:46	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/02/15 22:46	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/02/15 22:46	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/02/15 22:46	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/02/15 22:46	1
Acetone	5.0	U	5.0	2.5	ug/L			10/02/15 22:46	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/02/15 22:46	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/02/15 22:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/02/15 22:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/02/15 22:46	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/02/15 22:46	1
cis-1,2-Dichloroethene	**42**		1.0	0.24	ug/L			10/02/15 22:46	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/02/15 22:46	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/02/15 22:46	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/02/15 22:46	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/02/15 22:46	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/02/15 22:46	1
Benzene	1.0	U	1.0	0.11	ug/L			10/02/15 22:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/15 22:46	1
Trichloroethene	**5.6**		1.0	0.14	ug/L			10/02/15 22:46	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/02/15 22:46	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/02/15 22:46	1
cis-1,3-Dichloropropene	1.0	U ^c	1.0	0.19	ug/L			10/02/15 22:46	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/02/15 22:46	1
Toluene	1.0	U	1.0	0.15	ug/L			10/02/15 22:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/02/15 22:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/02/15 22:46	1
Tetrachloroethene	**6.7**		1.0	0.15	ug/L			10/02/15 22:46	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/02/15 22:46	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/02/15 22:46	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/02/15 22:46	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/02/15 22:46	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/02/15 22:46	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/02/15 22:46	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/02/15 22:46	1
Styrene	1.0	U	1.0	0.097	ug/L			10/02/15 22:46	1
Bromoform	1.0	U ^c	1.0	0.19	ug/L			10/02/15 22:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/02/15 22:46	1
Acrylonitrile	20	U	20	0.55	ug/L			10/02/15 22:46	1
1,4-Dioxane	200	U	200	34	ug/L			10/02/15 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*	*^c*	*64 - 135*		*10/02/15 22:46*	*1*
Toluene-d8 (Surr)	*97*		*71 - 118*		*10/02/15 22:46*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 118*		*10/02/15 22:46*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 128*		*10/02/15 22:46*	*1*

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

Client Sample ID: HD-MW-16D-0/1-0
Date Collected: 09/23/15 14:05
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/01/15 19:24	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/01/15 19:24	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/01/15 19:24	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/01/15 19:24	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/01/15 19:24	1
Acetone	5.0	U	5.0	2.5	ug/L			10/01/15 19:24	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/01/15 19:24	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/01/15 19:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/01/15 19:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/01/15 19:24	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/01/15 19:24	1
cis-1,2-Dichloroethene	**5.1**		1.0	0.24	ug/L			10/01/15 19:24	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/01/15 19:24	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/01/15 19:24	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/01/15 19:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/01/15 19:24	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/01/15 19:24	1
Benzene	1.0	U	1.0	0.11	ug/L			10/01/15 19:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/15 19:24	1
Trichloroethene	**19**		1.0	0.14	ug/L			10/01/15 19:24	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/01/15 19:24	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/01/15 19:24	1
cis-1,3-Dichloropropene	1.0	U ^c	1.0	0.19	ug/L			10/01/15 19:24	1
4-Methyl-2-pentanone (MIBK)	5.0	U ^c	5.0	0.53	ug/L			10/01/15 19:24	1
Toluene	1.0	U	1.0	0.15	ug/L			10/01/15 19:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/01/15 19:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/01/15 19:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/15 19:24	1
2-Hexanone	5.0	U ^c	5.0	0.16	ug/L			10/01/15 19:24	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/15 19:24	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/01/15 19:24	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/15 19:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/01/15 19:24	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/01/15 19:24	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/01/15 19:24	1
Styrene	1.0	U	1.0	0.097	ug/L			10/01/15 19:24	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/01/15 19:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/01/15 19:24	1
Acrylonitrile	20	U	20	0.55	ug/L			10/01/15 19:24	1
1,4-Dioxane	200	U	200	34	ug/L			10/01/15 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 135*		*10/01/15 19:24*	*1*
Toluene-d8 (Surr)	*100*		*71 - 118*		*10/01/15 19:24*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 118*		*10/01/15 19:24*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 128*		*10/01/15 19:24*	*1*

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

Client Sample ID: HD-MW-49S-0/1-0
Date Collected: 09/23/15 09:41
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	200	U	200	57	ug/L			10/02/15 23:34	200
Vinyl chloride	200	U	200	45	ug/L			10/02/15 23:34	200
Bromomethane	200	U	200	63	ug/L			10/02/15 23:34	200
Chloroethane	200	U	200	43	ug/L			10/02/15 23:34	200
1,1-Dichloroethene	**160**	**J**	200	59	ug/L			10/02/15 23:34	200
Acetone	1000	U	1000	500	ug/L			10/02/15 23:34	200
Carbon disulfide	200	U	200	42	ug/L			10/02/15 23:34	200
Methylene Chloride	200	U	200	25	ug/L			10/02/15 23:34	200
trans-1,2-Dichloroethene	200	U	200	34	ug/L			10/02/15 23:34	200
Methyl tert-butyl ether	200	U	200	37	ug/L			10/02/15 23:34	200
1,1-Dichloroethane	**580**		200	23	ug/L			10/02/15 23:34	200
cis-1,2-Dichloroethene	**3900**		200	47	ug/L			10/02/15 23:34	200
Bromochloromethane	200	U	200	36	ug/L			10/02/15 23:34	200
2-Butanone (MEK)	1000	U	1000	110	ug/L			10/02/15 23:34	200
Chloroform	200	U	200	34	ug/L			10/02/15 23:34	200
1,1,1-Trichloroethane	**830**		200	57	ug/L			10/02/15 23:34	200
Carbon tetrachloride	200	U	200	27	ug/L			10/02/15 23:34	200
Benzene	200	U	200	21	ug/L			10/02/15 23:34	200
1,2-Dichloroethane	200	U	200	42	ug/L			10/02/15 23:34	200
Trichloroethene	**1700**		200	29	ug/L			10/02/15 23:34	200
1,2-Dichloropropane	200	U	200	19	ug/L			10/02/15 23:34	200
Bromodichloromethane	200	U	200	26	ug/L			10/02/15 23:34	200
cis-1,3-Dichloropropene	200	U ^c	200	37	ug/L			10/02/15 23:34	200
4-Methyl-2-pentanone (MIBK)	1000	U	1000	110	ug/L			10/02/15 23:34	200
Toluene	200	U	200	30	ug/L			10/02/15 23:34	200
trans-1,3-Dichloropropene	200	U	200	30	ug/L			10/02/15 23:34	200
1,1,2-Trichloroethane	200	U	200	40	ug/L			10/02/15 23:34	200
Tetrachloroethene	**170**	**J**	200	30	ug/L			10/02/15 23:34	200
2-Hexanone	1000	U	1000	32	ug/L			10/02/15 23:34	200
Dibromochloromethane	200	U	200	27	ug/L			10/02/15 23:34	200
1,2-Dibromoethane (EDB)	200	U	200	36	ug/L			10/02/15 23:34	200
Chlorobenzene	200	U	200	27	ug/L			10/02/15 23:34	200
1,1,1,2-Tetrachloroethane	200	U	200	55	ug/L			10/02/15 23:34	200
Ethylbenzene	200	U	200	45	ug/L			10/02/15 23:34	200
Xylenes, Total	600	U	600	98	ug/L			10/02/15 23:34	200
Styrene	200	U	200	19	ug/L			10/02/15 23:34	200
Bromoform	200	U ^c	200	38	ug/L			10/02/15 23:34	200
1,1,2,2-Tetrachloroethane	200	U	200	40	ug/L			10/02/15 23:34	200
Acrylonitrile	4000	U	4000	110	ug/L			10/02/15 23:34	200
1,4-Dioxane	40000	U	40000	6900	ug/L			10/02/15 23:34	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*	*^c*	*64 - 135*		*10/02/15 23:34*	*200*
Toluene-d8 (Surr)	*94*		*71 - 118*		*10/02/15 23:34*	*200*
4-Bromofluorobenzene (Surr)	*86*		*70 - 118*		*10/02/15 23:34*	*200*
Dibromofluoromethane (Surr)	*109*		*70 - 128*		*10/02/15 23:34*	*200*

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

Client Sample ID: HD-MW-94-0/1-0
Date Collected: 09/23/15 12:16
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.5	U	2.5	0.71	ug/L			10/05/15 19:36	2.5
Vinyl chloride	**13**		2.5	0.57	ug/L			10/05/15 19:36	2.5
Bromomethane	2.5	U	2.5	0.78	ug/L			10/05/15 19:36	2.5
Chloroethane	2.5	U ^c	2.5	0.54	ug/L			10/05/15 19:36	2.5
1,1-Dichloroethene	**3.4**		2.5	0.74	ug/L			10/05/15 19:36	2.5
Acetone	13	U	13	6.3	ug/L			10/05/15 19:36	2.5
Carbon disulfide	2.5	U	2.5	0.53	ug/L			10/05/15 19:36	2.5
Methylene Chloride	2.5	U	2.5	0.31	ug/L			10/05/15 19:36	2.5
trans-1,2-Dichloroethene	**17**		2.5	0.42	ug/L			10/05/15 19:36	2.5
Methyl tert-butyl ether	2.5	U	2.5	0.46	ug/L			10/05/15 19:36	2.5
1,1-Dichloroethane	**8.8**		2.5	0.29	ug/L			10/05/15 19:36	2.5
cis-1,2-Dichloroethene	**1100**	**E**	2.5	0.59	ug/L			10/05/15 19:36	2.5
Bromochloromethane	2.5	U	2.5	0.45	ug/L			10/05/15 19:36	2.5
2-Butanone (MEK)	13	U	13	1.4	ug/L			10/05/15 19:36	2.5
Chloroform	2.5	U	2.5	0.43	ug/L			10/05/15 19:36	2.5
1,1,1-Trichloroethane	**2.2**	**J**	2.5	0.72	ug/L			10/05/15 19:36	2.5
Carbon tetrachloride	2.5	U	2.5	0.34	ug/L			10/05/15 19:36	2.5
Benzene	2.5	U	2.5	0.26	ug/L			10/05/15 19:36	2.5
1,2-Dichloroethane	2.5	U	2.5	0.53	ug/L			10/05/15 19:36	2.5
Trichloroethene	**440**	**E**	2.5	0.36	ug/L			10/05/15 19:36	2.5
1,2-Dichloropropane	2.5	U	2.5	0.24	ug/L			10/05/15 19:36	2.5
Bromodichloromethane	2.5	U	2.5	0.33	ug/L			10/05/15 19:36	2.5
cis-1,3-Dichloropropene	2.5	U	2.5	0.47	ug/L			10/05/15 19:36	2.5
4-Methyl-2-pentanone (MIBK)	13	U	13	1.3	ug/L			10/05/15 19:36	2.5
Toluene	2.5	U	2.5	0.38	ug/L			10/05/15 19:36	2.5
trans-1,3-Dichloropropene	2.5	U	2.5	0.37	ug/L			10/05/15 19:36	2.5
1,1,2-Trichloroethane	2.5	U	2.5	0.50	ug/L			10/05/15 19:36	2.5
Tetrachloroethene	**33**		2.5	0.37	ug/L			10/05/15 19:36	2.5
2-Hexanone	13	U	13	0.40	ug/L			10/05/15 19:36	2.5
Dibromochloromethane	2.5	U	2.5	0.34	ug/L			10/05/15 19:36	2.5
1,2-Dibromoethane (EDB)	2.5	U	2.5	0.45	ug/L			10/05/15 19:36	2.5
Chlorobenzene	2.5	U	2.5	0.34	ug/L			10/05/15 19:36	2.5
1,1,1,2-Tetrachloroethane	2.5	U	2.5	0.69	ug/L			10/05/15 19:36	2.5
Ethylbenzene	2.5	U	2.5	0.57	ug/L			10/05/15 19:36	2.5
Xylenes, Total	7.5	U	7.5	1.2	ug/L			10/05/15 19:36	2.5
Styrene	2.5	U	2.5	0.24	ug/L			10/05/15 19:36	2.5
Bromoform	2.5	U	2.5	0.48	ug/L			10/05/15 19:36	2.5
1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.50	ug/L			10/05/15 19:36	2.5
Acrylonitrile	50	U	50	1.4	ug/L			10/05/15 19:36	2.5
1,4-Dioxane	500	U	500	86	ug/L			10/05/15 19:36	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 135*		*10/05/15 19:36*	*2.5*
Toluene-d8 (Surr)	*93*		*71 - 118*		*10/05/15 19:36*	*2.5*
4-Bromofluorobenzene (Surr)	*85*		*70 - 118*		*10/05/15 19:36*	*2.5*
Dibromofluoromethane (Surr)	*107*		*70 - 128*		*10/05/15 19:36*	*2.5*

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

Client Sample ID: HD-MW-57-0/1-0
Date Collected: 09/23/15 14:17
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/02/15 23:10	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/02/15 23:10	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/02/15 23:10	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/02/15 23:10	1
1,1-Dichloroethene	**15**		1.0	0.30	ug/L			10/02/15 23:10	1
Acetone	5.0	U	5.0	2.5	ug/L			10/02/15 23:10	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/02/15 23:10	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/02/15 23:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/02/15 23:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/02/15 23:10	1
1,1-Dichloroethane	**0.63**	**J**	1.0	0.12	ug/L			10/02/15 23:10	1
cis-1,2-Dichloroethene	**13**		1.0	0.24	ug/L			10/02/15 23:10	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/02/15 23:10	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/02/15 23:10	1
Chloroform	**1.6**		1.0	0.17	ug/L			10/02/15 23:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/02/15 23:10	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/02/15 23:10	1
Benzene	1.0	U	1.0	0.11	ug/L			10/02/15 23:10	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/15 23:10	1
Trichloroethene	**40**		1.0	0.14	ug/L			10/02/15 23:10	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/02/15 23:10	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/02/15 23:10	1
cis-1,3-Dichloropropene	1.0	U ^c	1.0	0.19	ug/L			10/02/15 23:10	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/02/15 23:10	1
Toluene	1.0	U	1.0	0.15	ug/L			10/02/15 23:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/02/15 23:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/02/15 23:10	1
Tetrachloroethene	**3.6**		1.0	0.15	ug/L			10/02/15 23:10	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/02/15 23:10	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/02/15 23:10	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/02/15 23:10	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/02/15 23:10	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/02/15 23:10	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/02/15 23:10	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/02/15 23:10	1
Styrene	1.0	U	1.0	0.097	ug/L			10/02/15 23:10	1
Bromoform	1.0	U ^c	1.0	0.19	ug/L			10/02/15 23:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/02/15 23:10	1
Acrylonitrile	20	U	20	0.55	ug/L			10/02/15 23:10	1
1,4-Dioxane	200	U	200	34	ug/L			10/02/15 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*	*^c*	*64 - 135*		*10/02/15 23:10*	*1*
Toluene-d8 (Surr)	*96*		*71 - 118*		*10/02/15 23:10*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 118*		*10/02/15 23:10*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 128*		*10/02/15 23:10*	*1*

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

Client Sample ID: HD-QC7-0/1-2
Date Collected: 09/23/15 12:00
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/01/15 15:46	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/01/15 15:46	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/01/15 15:46	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/01/15 15:46	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/01/15 15:46	1
Acetone	5.0	U	5.0	2.5	ug/L			10/01/15 15:46	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/01/15 15:46	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/01/15 15:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/01/15 15:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/01/15 15:46	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/01/15 15:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/01/15 15:46	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/01/15 15:46	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/01/15 15:46	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/01/15 15:46	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/01/15 15:46	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/01/15 15:46	1
Benzene	1.0	U	1.0	0.11	ug/L			10/01/15 15:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/15 15:46	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/01/15 15:46	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/01/15 15:46	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/01/15 15:46	1
cis-1,3-Dichloropropene	1.0	U ^c	1.0	0.19	ug/L			10/01/15 15:46	1
4-Methyl-2-pentanone (MIBK)	5.0	U ^c	5.0	0.53	ug/L			10/01/15 15:46	1
Toluene	1.0	U	1.0	0.15	ug/L			10/01/15 15:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/01/15 15:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/01/15 15:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/15 15:46	1
2-Hexanone	5.0	U ^c	5.0	0.16	ug/L			10/01/15 15:46	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/15 15:46	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/01/15 15:46	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/15 15:46	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/01/15 15:46	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/01/15 15:46	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/01/15 15:46	1
Styrene	1.0	U	1.0	0.097	ug/L			10/01/15 15:46	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/01/15 15:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/01/15 15:46	1
Acrylonitrile	20	U	20	0.55	ug/L			10/01/15 15:46	1
1,4-Dioxane	200	U	200	34	ug/L			10/01/15 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 135*		*10/01/15 15:46*	*1*
Toluene-d8 (Surr)	*96*		*71 - 118*		*10/01/15 15:46*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 118*		*10/01/15 15:46*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 128*		*10/01/15 15:46*	*1*

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

Client Sample ID: HD-MW-94-0/1-0
Date Collected: 09/23/15 12:16
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	25	U	25	7.1	ug/L			10/01/15 20:12	25
Vinyl chloride	**14**	**J**	25	5.7	ug/L			10/01/15 20:12	25
Bromomethane	25	U	25	7.8	ug/L			10/01/15 20:12	25
Chloroethane	25	U	25	5.4	ug/L			10/01/15 20:12	25
1,1-Dichloroethene	25	U	25	7.4	ug/L			10/01/15 20:12	25
Acetone	130	U	130	63	ug/L			10/01/15 20:12	25
Carbon disulfide	25	U	25	5.3	ug/L			10/01/15 20:12	25
Methylene Chloride	25	U	25	3.1	ug/L			10/01/15 20:12	25
trans-1,2-Dichloroethene	**18**	**J**	25	4.2	ug/L			10/01/15 20:12	25
Methyl tert-butyl ether	25	U	25	4.6	ug/L			10/01/15 20:12	25
1,1-Dichloroethane	**9.3**	**J**	25	2.9	ug/L			10/01/15 20:12	25
cis-1,2-Dichloroethene	**1200**		25	5.9	ug/L			10/01/15 20:12	25
Bromochloromethane	25	U	25	4.5	ug/L			10/01/15 20:12	25
2-Butanone (MEK)	130	U	130	14	ug/L			10/01/15 20:12	25
Chloroform	25	U	25	4.3	ug/L			10/01/15 20:12	25
1,1,1-Trichloroethane	25	U	25	7.2	ug/L			10/01/15 20:12	25
Carbon tetrachloride	25	U	25	3.4	ug/L			10/01/15 20:12	25
Benzene	25	U	25	2.6	ug/L			10/01/15 20:12	25
1,2-Dichloroethane	25	U	25	5.3	ug/L			10/01/15 20:12	25
Trichloroethene	**450**		25	3.6	ug/L			10/01/15 20:12	25
1,2-Dichloropropane	25	U	25	2.4	ug/L			10/01/15 20:12	25
Bromodichloromethane	25	U	25	3.3	ug/L			10/01/15 20:12	25
cis-1,3-Dichloropropene	25	U ^c	25	4.7	ug/L			10/01/15 20:12	25
4-Methyl-2-pentanone (MIBK)	130	U ^c	130	13	ug/L			10/01/15 20:12	25
Toluene	25	U	25	3.8	ug/L			10/01/15 20:12	25
trans-1,3-Dichloropropene	25	U	25	3.7	ug/L			10/01/15 20:12	25
1,1,2-Trichloroethane	25	U	25	5.0	ug/L			10/01/15 20:12	25
Tetrachloroethene	**36**		25	3.7	ug/L			10/01/15 20:12	25
2-Hexanone	130	U ^c	130	4.0	ug/L			10/01/15 20:12	25
Dibromochloromethane	25	U	25	3.4	ug/L			10/01/15 20:12	25
1,2-Dibromoethane (EDB)	25	U	25	4.5	ug/L			10/01/15 20:12	25
Chlorobenzene	25	U	25	3.4	ug/L			10/01/15 20:12	25
1,1,1,2-Tetrachloroethane	25	U	25	6.9	ug/L			10/01/15 20:12	25
Ethylbenzene	25	U	25	5.7	ug/L			10/01/15 20:12	25
Xylenes, Total	75	U	75	12	ug/L			10/01/15 20:12	25
Styrene	25	U	25	2.4	ug/L			10/01/15 20:12	25
Bromoform	25	U	25	4.8	ug/L			10/01/15 20:12	25
1,1,2,2-Tetrachloroethane	25	U	25	5.0	ug/L			10/01/15 20:12	25
Acrylonitrile	500	U	500	14	ug/L			10/01/15 20:12	25
1,4-Dioxane	5000	U	5000	860	ug/L			10/01/15 20:12	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*64 - 135*		*10/01/15 20:12*	*25*
Toluene-d8 (Surr)	*94*		*71 - 118*		*10/01/15 20:12*	*25*
4-Bromofluorobenzene (Surr)	*85*		*70 - 118*		*10/01/15 20:12*	*25*
Dibromofluoromethane (Surr)	*106*		*70 - 128*		*10/01/15 20:12*	*25*

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

Client Sample ID: HD-MW-49S-0/1-0
Date Collected: 09/23/15 09:41
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**4.9**		1.9	0.049	ug/L		09/30/15 08:57	10/04/15 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*28 - 109*	*09/30/15 08:57*	*10/04/15 23:44*	*1*
2-Fluorophenol (Surr)	*48*		*20 - 105*	*09/30/15 08:57*	*10/04/15 23:44*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*30 - 118*	*09/30/15 08:57*	*10/04/15 23:44*	*1*
Nitrobenzene-d5 (Surr)	*56*		*27 - 114*	*09/30/15 08:57*	*10/04/15 23:44*	*1*
Phenol-d5 (Surr)	*54*		*25 - 105*	*09/30/15 08:57*	*10/04/15 23:44*	*1*
Terphenyl-d14 (Surr)	*72*		*20 - 118*	*09/30/15 08:57*	*10/04/15 23:44*	*1*

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48073-1

General Chemistry

Client Sample ID: HD-MW-57-0/1-0
Date Collected: 09/23/15 14:17
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.039		0.010	0.0019	mg/L			09/24/15 10:58	1

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48073-1

General Chemistry - Dissolved

Client Sample ID: HD-MW-57-0/1-0
Date Collected: 09/23/15 14:17
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.038		0.010	0.0019	mg/L			09/24/15 11:07	1

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48073-1

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

General Chemistry

Analyte	RL	MDL	Units	Method
Cr (VI)	0.010	0.0019	mg/L	7196A

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48073-1

General Chemistry - Dissolved

Analyte	RL	MDL	Units	Method
Cr (VI)	0.010	0.0019	mg/L	7196A

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48073-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(64-135)	(71-118)	(70-118)	(70-128)
180-48073-1	HD-MW-11-0/1-0	98	97	87	101
180-48073-1 MS	HD-MW-11-0/1-0	78	99	98	85
180-48073-1 MSD	HD-MW-11-0/1-0	79	96	95	90
180-48073-2	HD-MW-16S-0/1-0	96 ^c	97	85	104
180-48073-3	HD-MW-16D-0/1-0	98	100	91	107
180-48073-4	HD-MW-49S-0/1-0	101 ^c	94	86	109
180-48073-5 - DL	HD-MW-94-0/1-0	94	94	85	106
180-48073-5	HD-MW-94-0/1-0	96	93	85	107
180-48073-6	HD-MW-57-0/1-0	101 ^c	96	86	109
180-48073-7	HD-QC7-0/1-2	95	96	86	102
LCS 180-155577/12	Lab Control Sample	80	90	94	88
LCS 180-155711/9	Lab Control Sample	86	100	96	93
LCS 180-155884/7	Lab Control Sample	82	99	90	91
MB 180-155577/7	Method Blank	97	95	88	99
MB 180-155711/6	Method Blank	96	92	88	101
MB 180-155884/4	Method Blank	93	91	88	105

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(28-109)	(20-105)	(30-118)	(27-114)	(25-105)	(20-118)
180-48073-4	HD-MW-49S-0/1-0	55	48	66	56	54	72
LCS 180-155373/2-A	Lab Control Sample	67	66	73	69	66	67
LCSD 180-155373/3-A	Lab Control Sample Dup	67	67	74	70	67	65
MB 180-155373/1-A	Method Blank	61	61	63	65	62	68

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 180-155577/7
Matrix: Water
Analysis Batch: 155577

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/01/15 14:45	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/01/15 14:45	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/01/15 14:45	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/01/15 14:45	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/01/15 14:45	1
Acetone	5.0	U	5.0	2.5	ug/L			10/01/15 14:45	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/01/15 14:45	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/01/15 14:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/01/15 14:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/01/15 14:45	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/01/15 14:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/01/15 14:45	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/01/15 14:45	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/01/15 14:45	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/01/15 14:45	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/01/15 14:45	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/01/15 14:45	1
Benzene	1.0	U	1.0	0.11	ug/L			10/01/15 14:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/01/15 14:45	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/01/15 14:45	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/01/15 14:45	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/01/15 14:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/01/15 14:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/01/15 14:45	1
Toluene	1.0	U	1.0	0.15	ug/L			10/01/15 14:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/01/15 14:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/01/15 14:45	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/01/15 14:45	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/01/15 14:45	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/01/15 14:45	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/01/15 14:45	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/01/15 14:45	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/01/15 14:45	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/01/15 14:45	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/01/15 14:45	1
Styrene	1.0	U	1.0	0.097	ug/L			10/01/15 14:45	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/01/15 14:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/01/15 14:45	1
Acrylonitrile	20	U	20	0.55	ug/L			10/01/15 14:45	1
1,4-Dioxane	200	U	200	34	ug/L			10/01/15 14:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 135*		*10/01/15 14:45*	*1*
Toluene-d8 (Surr)	*95*		*71 - 118*		*10/01/15 14:45*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 118*		*10/01/15 14:45*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 128*		*10/01/15 14:45*	*1*

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

Lab Sample ID: LCS 180-155577/12
Matrix: Water
Analysis Batch: 155577

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	9.95		ug/L		99	50 - 139
Vinyl chloride	10.0	9.09		ug/L		91	53 - 138
Bromomethane	10.0	10.4		ug/L		104	33 - 150
Chloroethane	10.0	8.45		ug/L		84	36 - 142
1,1-Dichloroethene	10.0	8.69		ug/L		87	65 - 136
Acetone	20.0	20.3		ug/L		102	22 - 150
Carbon disulfide	10.0	8.46		ug/L		85	54 - 132
Methylene Chloride	10.0	8.97		ug/L		90	63 - 129
trans-1,2-Dichloroethene	10.0	8.94		ug/L		89	73 - 126
Methyl tert-butyl ether	10.0	9.18		ug/L		92	64 - 123
1,1-Dichloroethane	10.0	8.89		ug/L		89	73 - 126
cis-1,2-Dichloroethene	10.0	9.08		ug/L		91	70 - 120
Bromochloromethane	10.0	9.66		ug/L		97	70 - 127
2-Butanone (MEK)	20.0	21.1		ug/L		106	39 - 138
Chloroform	10.0	8.67		ug/L		87	72 - 127
1,1,1-Trichloroethane	10.0	8.93		ug/L		89	63 - 133
Carbon tetrachloride	10.0	8.79		ug/L		88	55 - 150
Benzene	10.0	9.16		ug/L		92	80 - 120
1,2-Dichloroethane	10.0	8.78		ug/L		88	68 - 132
Trichloroethene	10.0	9.54		ug/L		95	73 - 120
1,2-Dichloropropane	10.0	8.97		ug/L		90	76 - 124
Bromodichloromethane	10.0	8.71		ug/L		87	66 - 130
cis-1,3-Dichloropropene	10.0	8.11		ug/L		81	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	18.9		ug/L		95	45 - 145
Toluene	10.0	9.90		ug/L		99	80 - 123
trans-1,3-Dichloropropene	10.0	8.57		ug/L		86	65 - 125
1,1,2-Trichloroethane	10.0	9.66		ug/L		97	77 - 127
Tetrachloroethene	10.0	10.1		ug/L		101	70 - 135
2-Hexanone	20.0	18.2		ug/L		91	25 - 132
Dibromochloromethane	10.0	9.29		ug/L		93	60 - 140
1,2-Dibromoethane (EDB)	10.0	9.76		ug/L		98	74 - 123
Chlorobenzene	10.0	9.88		ug/L		99	80 - 120
1,1,1,2-Tetrachloroethane	10.0	9.79		ug/L		98	63 - 140
Ethylbenzene	10.0	10.1		ug/L		101	72 - 126
Xylenes, Total	20.0	20.2		ug/L		101	76 - 128
Styrene	10.0	10.4		ug/L		104	71 - 127
Bromoform	10.0	8.66		ug/L		87	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.1		ug/L		101	62 - 125
Acrylonitrile	100	97.7		ug/L		98	30 - 140
1,4-Dioxane	200	247		ug/L		123	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*64 - 135*
Toluene-d8 (Surr)	*90*		*71 - 118*
4-Bromofluorobenzene (Surr)	*94*		*70 - 118*
Dibromofluoromethane (Surr)	*88*		*70 - 128*

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

Lab Sample ID: 180-48073-1 MS
Matrix: Water
Analysis Batch: 155577

Client Sample ID: HD-MW-11-0/1-0
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	1.0	U	10.0	9.86		ug/L		99	50 - 139
Vinyl chloride	1.0	U	10.0	9.11		ug/L		91	53 - 138
Bromomethane	1.0	U	10.0	9.60		ug/L		96	33 - 150
Chloroethane	1.0	U	10.0	8.32		ug/L		83	36 - 142
1,1-Dichloroethene	1.0	U	10.0	9.29		ug/L		93	65 - 136
Acetone	5.0	U	20.0	20.0		ug/L		100	22 - 150
Carbon disulfide	1.0	U	10.0	8.73		ug/L		87	54 - 132
Methylene Chloride	1.0	U	10.0	8.69		ug/L		87	63 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	8.85		ug/L		89	73 - 126
Methyl tert-butyl ether	1.0	U	10.0	8.48		ug/L		85	64 - 123
1,1-Dichloroethane	1.0	U	10.0	8.50		ug/L		85	73 - 126
cis-1,2-Dichloroethene	1.0	U	10.0	8.48		ug/L		85	70 - 120
Bromochloromethane	1.0	U	10.0	9.50		ug/L		95	70 - 127
2-Butanone (MEK)	5.0	U	20.0	20.5		ug/L		103	39 - 138
Chloroform	0.43	J	10.0	8.80		ug/L		84	72 - 127
1,1,1-Trichloroethane	1.0	U	10.0	8.75		ug/L		87	63 - 133
Carbon tetrachloride	1.0	U	10.0	8.77		ug/L		88	55 - 150
Benzene	1.0	U	10.0	8.85		ug/L		89	80 - 120
1,2-Dichloroethane	1.0	U	10.0	8.32		ug/L		83	68 - 132
Trichloroethene	2.6		10.0	11.2		ug/L		86	73 - 120
1,2-Dichloropropane	1.0	U	10.0	8.50		ug/L		85	76 - 124
Bromodichloromethane	1.0	U	10.0	8.13		ug/L		81	66 - 130
cis-1,3-Dichloropropene	1.0	U ^c	10.0	7.57		ug/L		76	66 - 120
4-Methyl-2-pentanone (MIBK)	5.0	U ^c	20.0	18.1		ug/L		91	45 - 145
Toluene	1.0	U	10.0	9.86		ug/L		99	80 - 123
trans-1,3-Dichloropropene	1.0	U	10.0	8.65		ug/L		86	65 - 125
1,1,2-Trichloroethane	1.0	U	10.0	10.3		ug/L		103	77 - 127
Tetrachloroethene	0.37	J	10.0	10.7		ug/L		104	70 - 135
2-Hexanone	5.0	U ^c	20.0	18.2		ug/L		91	25 - 132
Dibromochloromethane	1.0	U	10.0	9.69		ug/L		97	60 - 140
1,2-Dibromoethane (EDB)	1.0	U	10.0	10.0		ug/L		100	74 - 123
Chlorobenzene	1.0	U	10.0	10.1		ug/L		101	80 - 120
1,1,1,2-Tetrachloroethane	1.0	U	10.0	10.0		ug/L		100	63 - 140
Ethylbenzene	1.0	U	10.0	9.91		ug/L		99	72 - 126
Xylenes, Total	3.0	U	20.0	20.2		ug/L		101	76 - 128
Styrene	1.0	U	10.0	10.4		ug/L		104	71 - 127
Bromoform	1.0	U	10.0	8.93		ug/L		89	46 - 150
1,1,2,2-Tetrachloroethane	1.0	U	10.0	10.3		ug/L		103	62 - 125
Acrylonitrile	20	U	100	92.9		ug/L		93	30 - 140
1,4-Dioxane	200	U	200	201		ug/L		100	10 - 160

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*64 - 135*
Toluene-d8 (Surr)	*99*		*71 - 118*
4-Bromofluorobenzene (Surr)	*98*		*70 - 118*
Dibromofluoromethane (Surr)	*85*		*70 - 128*

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

Lab Sample ID: 180-48073-1 MSD
Matrix: Water
Analysis Batch: 155577

Client Sample ID: HD-MW-11-0/1-0
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	1.0	U	10.0	9.99		ug/L		100	50 - 139	1	35
Vinyl chloride	1.0	U	10.0	9.11		ug/L		91	53 - 138	0	35
Bromomethane	1.0	U	10.0	10.3		ug/L		103	33 - 150	7	35
Chloroethane	1.0	U	10.0	8.62		ug/L		86	36 - 142	4	35
1,1-Dichloroethene	1.0	U	10.0	9.06		ug/L		91	65 - 136	2	35
Acetone	5.0	U	20.0	18.1		ug/L		91	22 - 150	10	35
Carbon disulfide	1.0	U	10.0	8.68		ug/L		87	54 - 132	1	35
Methylene Chloride	1.0	U	10.0	8.82		ug/L		88	63 - 129	2	35
trans-1,2-Dichloroethene	1.0	U	10.0	8.74		ug/L		87	73 - 126	1	35
Methyl tert-butyl ether	1.0	U	10.0	8.71		ug/L		87	64 - 123	3	35
1,1-Dichloroethane	1.0	U	10.0	8.60		ug/L		86	73 - 126	1	35
cis-1,2-Dichloroethene	1.0	U	10.0	8.88		ug/L		89	70 - 120	5	35
Bromochloromethane	1.0	U	10.0	9.38		ug/L		94	70 - 127	1	35
2-Butanone (MEK)	5.0	U	20.0	20.8		ug/L		104	39 - 138	1	35
Chloroform	0.43	J	10.0	8.81		ug/L		84	72 - 127	0	35
1,1,1-Trichloroethane	1.0	U	10.0	8.81		ug/L		88	63 - 133	1	35
Carbon tetrachloride	1.0	U	10.0	8.84		ug/L		88	55 - 150	1	35
Benzene	1.0	U	10.0	8.90		ug/L		89	80 - 120	1	32
1,2-Dichloroethane	1.0	U	10.0	8.26		ug/L		83	68 - 132	1	32
Trichloroethene	2.6		10.0	11.5		ug/L		89	73 - 120	3	35
1,2-Dichloropropane	1.0	U	10.0	8.65		ug/L		87	76 - 124	2	34
Bromodichloromethane	1.0	U	10.0	8.44		ug/L		84	66 - 130	4	35
cis-1,3-Dichloropropene	1.0	U ^c	10.0	7.97		ug/L		80	66 - 120	5	35
4-Methyl-2-pentanone (MIBK)	5.0	U ^c	20.0	17.8		ug/L		89	45 - 145	2	35
Toluene	1.0	U	10.0	9.65		ug/L		96	80 - 123	2	35
trans-1,3-Dichloropropene	1.0	U	10.0	8.15		ug/L		82	65 - 125	6	35
1,1,2-Trichloroethane	1.0	U	10.0	9.47		ug/L		95	77 - 127	8	35
Tetrachloroethene	0.37	J	10.0	10.4		ug/L		100	70 - 135	3	35
2-Hexanone	5.0	U ^c	20.0	17.9		ug/L		90	25 - 132	2	35
Dibromochloromethane	1.0	U	10.0	9.23		ug/L		92	60 - 140	5	35
1,2-Dibromoethane (EDB)	1.0	U	10.0	9.47		ug/L		95	74 - 123	5	35
Chlorobenzene	1.0	U	10.0	9.68		ug/L		97	80 - 120	4	29
1,1,1,2-Tetrachloroethane	1.0	U	10.0	9.69		ug/L		97	63 - 140	3	34
Ethylbenzene	1.0	U	10.0	9.72		ug/L		97	72 - 126	2	33
Xylenes, Total	3.0	U	20.0	19.8		ug/L		99	76 - 128	2	32
Styrene	1.0	U	10.0	10.3		ug/L		103	71 - 127	2	34
Bromoform	1.0	U	10.0	8.43		ug/L		84	46 - 150	6	35
1,1,2,2-Tetrachloroethane	1.0	U	10.0	9.86		ug/L		99	62 - 125	5	35
Acrylonitrile	20	U	100	93.8		ug/L		94	30 - 140	1	35
1,4-Dioxane	200	U	200	200		ug/L		100	10 - 160	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*79*		*64 - 135*
Toluene-d8 (Surr)	*96*		*71 - 118*
4-Bromofluorobenzene (Surr)	*95*		*70 - 118*
Dibromofluoromethane (Surr)	*90*		*70 - 128*

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

Lab Sample ID: MB 180-155711/6
Matrix: Water
Analysis Batch: 155711

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/02/15 13:42	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/02/15 13:42	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/02/15 13:42	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/02/15 13:42	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/02/15 13:42	1
Acetone	5.0	U	5.0	2.5	ug/L			10/02/15 13:42	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/02/15 13:42	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/02/15 13:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/02/15 13:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/02/15 13:42	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/02/15 13:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/02/15 13:42	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/02/15 13:42	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/02/15 13:42	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/02/15 13:42	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/02/15 13:42	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/02/15 13:42	1
Benzene	1.0	U	1.0	0.11	ug/L			10/02/15 13:42	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/15 13:42	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/02/15 13:42	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/02/15 13:42	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/02/15 13:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/02/15 13:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/02/15 13:42	1
Toluene	1.0	U	1.0	0.15	ug/L			10/02/15 13:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/02/15 13:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/02/15 13:42	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/02/15 13:42	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/02/15 13:42	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/02/15 13:42	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/02/15 13:42	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/02/15 13:42	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/02/15 13:42	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/02/15 13:42	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/02/15 13:42	1
Styrene	1.0	U	1.0	0.097	ug/L			10/02/15 13:42	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/02/15 13:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/02/15 13:42	1
Acrylonitrile	20	U	20	0.55	ug/L			10/02/15 13:42	1
1,4-Dioxane	200	U	200	34	ug/L			10/02/15 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 135*		*10/02/15 13:42*	*1*
Toluene-d8 (Surr)	*92*		*71 - 118*		*10/02/15 13:42*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 118*		*10/02/15 13:42*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 128*		*10/02/15 13:42*	*1*

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

Lab Sample ID: LCS 180-155711/9
Matrix: Water
Analysis Batch: 155711

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	11.0		ug/L		110	50 - 139
Vinyl chloride	10.0	10.1		ug/L		101	53 - 138
Bromomethane	10.0	10.7		ug/L		107	33 - 150
Chloroethane	10.0	8.90		ug/L		89	36 - 142
1,1-Dichloroethene	10.0	9.34		ug/L		93	65 - 136
Acetone	20.0	26.2		ug/L		131	22 - 150
Carbon disulfide	10.0	8.91		ug/L		89	54 - 132
Methylene Chloride	10.0	9.12		ug/L		91	63 - 129
trans-1,2-Dichloroethene	10.0	9.62		ug/L		96	73 - 126
Methyl tert-butyl ether	10.0	8.79		ug/L		88	64 - 123
1,1-Dichloroethane	10.0	9.07		ug/L		91	73 - 126
cis-1,2-Dichloroethene	10.0	8.95		ug/L		90	70 - 120
Bromochloromethane	10.0	9.97		ug/L		100	70 - 127
2-Butanone (MEK)	20.0	22.8		ug/L		114	39 - 138
Chloroform	10.0	9.38		ug/L		94	72 - 127
1,1,1-Trichloroethane	10.0	9.10		ug/L		91	63 - 133
Carbon tetrachloride	10.0	9.51		ug/L		95	55 - 150
Benzene	10.0	9.47		ug/L		95	80 - 120
1,2-Dichloroethane	10.0	8.80		ug/L		88	68 - 132
Trichloroethene	10.0	10.2		ug/L		102	73 - 120
1,2-Dichloropropane	10.0	9.34		ug/L		93	76 - 124
Bromodichloromethane	10.0	8.98		ug/L		90	66 - 130
cis-1,3-Dichloropropene	10.0	8.29		ug/L		83	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	18.6		ug/L		93	45 - 145
Toluene	10.0	10.4		ug/L		104	80 - 123
trans-1,3-Dichloropropene	10.0	8.43		ug/L		84	65 - 125
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	77 - 127
Tetrachloroethene	10.0	10.9		ug/L		109	70 - 135
2-Hexanone	20.0	19.6		ug/L		98	25 - 132
Dibromochloromethane	10.0	9.69		ug/L		97	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.1		ug/L		101	74 - 123
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	10.0	10.5		ug/L		105	63 - 140
Ethylbenzene	10.0	10.3		ug/L		103	72 - 126
Xylenes, Total	20.0	21.0		ug/L		105	76 - 128
Styrene	10.0	11.0		ug/L		110	71 - 127
Bromoform	10.0	9.46		ug/L		95	46 - 150
1,1,2,2-Tetrachloroethane	10.0	9.98		ug/L		100	62 - 125
Acrylonitrile	100	97.3		ug/L		97	30 - 140
1,4-Dioxane	200	195	J	ug/L		98	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*64 - 135*
Toluene-d8 (Surr)	*100*		*71 - 118*
4-Bromofluorobenzene (Surr)	*96*		*70 - 118*
Dibromofluoromethane (Surr)	*93*		*70 - 128*

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

Lab Sample ID: MB 180-155884/4
Matrix: Water
Analysis Batch: 155884

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/05/15 11:57	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/05/15 11:57	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/05/15 11:57	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/05/15 11:57	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/05/15 11:57	1
Acetone	5.0	U	5.0	2.5	ug/L			10/05/15 11:57	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/05/15 11:57	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/05/15 11:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/05/15 11:57	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/05/15 11:57	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/05/15 11:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/05/15 11:57	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/05/15 11:57	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/05/15 11:57	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/05/15 11:57	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/05/15 11:57	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/05/15 11:57	1
Benzene	1.0	U	1.0	0.11	ug/L			10/05/15 11:57	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/05/15 11:57	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/05/15 11:57	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/05/15 11:57	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/05/15 11:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/05/15 11:57	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/05/15 11:57	1
Toluene	1.0	U	1.0	0.15	ug/L			10/05/15 11:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/05/15 11:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/05/15 11:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/05/15 11:57	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/05/15 11:57	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/05/15 11:57	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/05/15 11:57	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/05/15 11:57	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/05/15 11:57	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/05/15 11:57	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/05/15 11:57	1
Styrene	1.0	U	1.0	0.097	ug/L			10/05/15 11:57	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/05/15 11:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/05/15 11:57	1
Acrylonitrile	20	U	20	0.55	ug/L			10/05/15 11:57	1
1,4-Dioxane	200	U	200	34	ug/L			10/05/15 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*64 - 135*		*10/05/15 11:57*	*1*
Toluene-d8 (Surr)	*91*		*71 - 118*		*10/05/15 11:57*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 118*		*10/05/15 11:57*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 128*		*10/05/15 11:57*	*1*

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

Lab Sample ID: LCS 180-155884/7
Matrix: Water
Analysis Batch: 155884

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	10.3		ug/L		103	50 - 139
Vinyl chloride	10.0	9.58		ug/L		96	53 - 138
Bromomethane	10.0	9.95		ug/L		100	33 - 150
Chloroethane	10.0	8.88		ug/L		89	36 - 142
1,1-Dichloroethene	10.0	8.87		ug/L		89	65 - 136
Acetone	20.0	17.7		ug/L		88	22 - 150
Carbon disulfide	10.0	8.59		ug/L		86	54 - 132
Methylene Chloride	10.0	8.64		ug/L		86	63 - 129
trans-1,2-Dichloroethene	10.0	8.88		ug/L		89	73 - 126
Methyl tert-butyl ether	10.0	8.16		ug/L		82	64 - 123
1,1-Dichloroethane	10.0	8.25		ug/L		83	73 - 126
cis-1,2-Dichloroethene	10.0	8.60		ug/L		86	70 - 120
Bromochloromethane	10.0	9.33		ug/L		93	70 - 127
2-Butanone (MEK)	20.0	17.9		ug/L		89	39 - 138
Chloroform	10.0	8.43		ug/L		84	72 - 127
1,1,1-Trichloroethane	10.0	8.58		ug/L		86	63 - 133
Carbon tetrachloride	10.0	9.51		ug/L		95	55 - 150
Benzene	10.0	8.97		ug/L		90	80 - 120
1,2-Dichloroethane	10.0	8.12		ug/L		81	68 - 132
Trichloroethene	10.0	9.53		ug/L		95	73 - 120
1,2-Dichloropropane	10.0	8.90		ug/L		89	76 - 124
Bromodichloromethane	10.0	8.82		ug/L		88	66 - 130
cis-1,3-Dichloropropene	10.0	8.07		ug/L		81	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	16.0		ug/L		80	45 - 145
Toluene	10.0	9.74		ug/L		97	80 - 123
trans-1,3-Dichloropropene	10.0	8.30		ug/L		83	65 - 125
1,1,2-Trichloroethane	10.0	9.41		ug/L		94	77 - 127
Tetrachloroethene	10.0	10.3		ug/L		103	70 - 135
2-Hexanone	20.0	15.4		ug/L		77	25 - 132
Dibromochloromethane	10.0	9.52		ug/L		95	60 - 140
1,2-Dibromoethane (EDB)	10.0	9.34		ug/L		93	74 - 123
Chlorobenzene	10.0	9.61		ug/L		96	80 - 120
1,1,1,2-Tetrachloroethane	10.0	9.60		ug/L		96	63 - 140
Ethylbenzene	10.0	9.77		ug/L		98	72 - 126
Xylenes, Total	20.0	19.6		ug/L		98	76 - 128
Styrene	10.0	10.1		ug/L		101	71 - 127
Bromoform	10.0	9.47		ug/L		95	46 - 150
1,1,2,2-Tetrachloroethane	10.0	9.54		ug/L		95	62 - 125
Acrylonitrile	100	90.6		ug/L		91	30 - 140
1,4-Dioxane	200	213		ug/L		107	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*64 - 135*
Toluene-d8 (Surr)	*99*		*71 - 118*
4-Bromofluorobenzene (Surr)	*90*		*70 - 118*
Dibromofluoromethane (Surr)	*91*		*70 - 128*

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

Lab Sample ID: MB 180-155373/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155804 — **Prep Batch: 155373**

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		09/30/15 08:57	10/04/15 17:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*28 - 109*	*09/30/15 08:57*	*10/04/15 17:58*	*1*
2-Fluorophenol (Surr)	*61*		*20 - 105*	*09/30/15 08:57*	*10/04/15 17:58*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*30 - 118*	*09/30/15 08:57*	*10/04/15 17:58*	*1*
Nitrobenzene-d5 (Surr)	*65*		*27 - 114*	*09/30/15 08:57*	*10/04/15 17:58*	*1*
Phenol-d5 (Surr)	*62*		*25 - 105*	*09/30/15 08:57*	*10/04/15 17:58*	*1*
Terphenyl-d14 (Surr)	*68*		*20 - 118*	*09/30/15 08:57*	*10/04/15 17:58*	*1*

Lab Sample ID: LCS 180-155373/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155804 — **Prep Batch: 155373**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			20.0	12.2		ug/L		61	36 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*28 - 109*
2-Fluorophenol (Surr)	*66*		*20 - 105*
2,4,6-Tribromophenol (Surr)	*73*		*30 - 118*
Nitrobenzene-d5 (Surr)	*69*		*27 - 114*
Phenol-d5 (Surr)	*66*		*25 - 105*
Terphenyl-d14 (Surr)	*67*		*20 - 118*

Lab Sample ID: LCSD 180-155373/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155804 — **Prep Batch: 155373**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			20.0	12.3		ug/L		62	36 - 100	1	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*28 - 109*
2-Fluorophenol (Surr)	*67*		*20 - 105*
2,4,6-Tribromophenol (Surr)	*74*		*30 - 118*
Nitrobenzene-d5 (Surr)	*70*		*27 - 114*
Phenol-d5 (Surr)	*67*		*25 - 105*
Terphenyl-d14 (Surr)	*65*		*20 - 118*

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 180-154747/6
Matrix: Water
Analysis Batch: 154747

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.010	U	0.010	0.0019	mg/L			09/24/15 10:55	1

Lab Sample ID: LCS 180-154747/5
Matrix: Water
Analysis Batch: 154747

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			0.250	0.263		mg/L		105	85 - 115		

Lab Sample ID: 180-48073-6 MS
Matrix: Water
Analysis Batch: 154747

Client Sample ID: HD-MW-57-0/1-0
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	0.039		0.250	0.280		mg/L		96	85 - 115		

Lab Sample ID: 180-48073-6 MSD
Matrix: Water
Analysis Batch: 154747

Client Sample ID: HD-MW-57-0/1-0
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	0.039		0.250	0.284		mg/L		98	85 - 115	1	20

Lab Sample ID: 180-48073-6 MS
Matrix: Water
Analysis Batch: 154747

Client Sample ID: HD-MW-57-0/1-0
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	0.038		0.250	0.283		mg/L		98	85 - 115		

Lab Sample ID: 180-48073-6 MSD
Matrix: Water
Analysis Batch: 154747

Client Sample ID: HD-MW-57-0/1-0
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	0.038		0.250	0.280		mg/L		97	85 - 115	1	20

GC/MS VOA

Analysis Batch: 155577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48073-1	HD-MW-11-0/1-0	Total/NA	Water	8260C	
180-48073-1 MS	HD-MW-11-0/1-0	Total/NA	Water	8260C	
180-48073-1 MSD	HD-MW-11-0/1-0	Total/NA	Water	8260C	
180-48073-3	HD-MW-16D-0/1-0	Total/NA	Water	8260C	
180-48073-5 - DL	HD-MW-94-0/1-0	Total/NA	Water	8260C	
180-48073-7	HD-QC7-0/1-2	Total/NA	Water	8260C	
LCS 180-155577/12	Lab Control Sample	Total/NA	Water	8260C	
MB 180-155577/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 155711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48073-2	HD-MW-16S-0/1-0	Total/NA	Water	8260C	
180-48073-4	HD-MW-49S-0/1-0	Total/NA	Water	8260C	
180-48073-6	HD-MW-57-0/1-0	Total/NA	Water	8260C	
LCS 180-155711/9	Lab Control Sample	Total/NA	Water	8260C	
MB 180-155711/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 155884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48073-5	HD-MW-94-0/1-0	Total/NA	Water	8260C	
LCS 180-155884/7	Lab Control Sample	Total/NA	Water	8260C	
MB 180-155884/4	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 155373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48073-4	HD-MW-49S-0/1-0	Total/NA	Water	3520C	
LCS 180-155373/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 180-155373/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 180-155373/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 155804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48073-4	HD-MW-49S-0/1-0	Total/NA	Water	8270D LL	155373
LCS 180-155373/2-A	Lab Control Sample	Total/NA	Water	8270D LL	155373
LCSD 180-155373/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	155373
MB 180-155373/1-A	Method Blank	Total/NA	Water	8270D LL	155373

General Chemistry

Analysis Batch: 154747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48073-6	HD-MW-57-0/1-0	Dissolved	Water	7196A	
180-48073-6	HD-MW-57-0/1-0	Total/NA	Water	7196A	
180-48073-6 MS	HD-MW-57-0/1-0	Dissolved	Water	7196A	
180-48073-6 MS	HD-MW-57-0/1-0	Total/NA	Water	7196A	
180-48073-6 MSD	HD-MW-57-0/1-0	Dissolved	Water	7196A	
180-48073-6 MSD	HD-MW-57-0/1-0	Total/NA	Water	7196A	
LCS 180-154747/5	Lab Control Sample	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 154747 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-154747/6	Method Blank	Total/NA	Water	7196A	

Client Sample ID: HD-MW-11-0/1-0
Date Collected: 09/23/15 14:15
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	155577	10/01/15 15:20	DLF	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-MW-16S-0/1-0
Date Collected: 09/23/15 12:15
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	155711	10/02/15 22:46	DLF	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-MW-16D-0/1-0
Date Collected: 09/23/15 14:05
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	155577	10/01/15 19:24	DLF	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-MW-49S-0/1-0
Date Collected: 09/23/15 09:41
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		200	5 mL	5 mL	155711	10/02/15 23:34	DLF	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Prep	3520C			270 mL	0.25 mL	155373	09/30/15 08:57	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	270 mL	0.25 mL	155804	10/04/15 23:44	VVP	TAL PIT
	Instrument ID: CH732									

Client Sample ID: HD-MW-94-0/1-0
Date Collected: 09/23/15 12:16
Date Received: 09/24/15 08:45

Lab Sample ID: 180-48073-5
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	25	5 mL	5 mL	155577	10/01/15 20:12	DLF	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Analysis	8260C		2.5	5 mL	5 mL	155884	10/05/15 19:36	DLF	TAL PIT
	Instrument ID: CHHP5									

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48073-1

Client Sample ID: HD-MW-57-0/1-0

Lab Sample ID: 180-48073-6

Date Collected: 09/23/15 14:17

Matrix: Water

Date Received: 09/24/15 08:45

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	155711	10/02/15 23:10	DLF	TAL PIT
	Instrument ID: CHHP5									
Dissolved	Analysis	7196A		1	25.0 mL	25.0 mL	154747	09/24/15 11:07	JLR	TAL PIT
	Instrument ID: GENESYS10S									
Total/NA	Analysis	7196A		1	25.0 mL	25.0 mL	154747	09/24/15 10:58	JLR	TAL PIT
	Instrument ID: GENESYS10S									

Client Sample ID: HD-QC7-0/1-2

Lab Sample ID: 180-48073-7

Date Collected: 09/23/15 12:00

Matrix: Water

Date Received: 09/24/15 08:45

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	155577	10/01/15 15:46	DLF	TAL PIT
	Instrument ID: CHHP5									

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

JLR = Jennifer Rumble

VVP = Vincent Piccolino

Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48073-1

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: 180-48073-1

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
7196A	Chromium, Hexavalent	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: 180-48073-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-48073-1	HD-MW-11-0/1-0	Water	09/23/15 14:15	09/24/15 08:45
180-48073-2	HD-MW-16S-0/1-0	Water	09/23/15 12:15	09/24/15 08:45
180-48073-3	HD-MW-16D-0/1-0	Water	09/23/15 14:05	09/24/15 08:45
180-48073-4	HD-MW-49S-0/1-0	Water	09/23/15 09:41	09/24/15 08:45
180-48073-5	HD-MW-94-0/1-0	Water	09/23/15 12:16	09/24/15 08:45
180-48073-6	HD-MW-57-0/1-0	Water	09/23/15 14:17	09/24/15 08:45
180-48073-7	HD-QC7-0/1-2	Water	09/23/15 12:00	09/24/15 08:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CHHP5 Analysis Batch Number: 151868

Lab Sample ID: IC 180-151868/6 Client Sample ID:

Date Analyzed: 08/26/15 15:04 Lab File ID: 50826006.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.65	Incomplete Integration	fergusond	08/27/15 10:07
Acetone	3.45	Peak Tail	fergusond	08/27/15 10:07

Lab Sample ID: IC 180-151868/12 Client Sample ID:

Date Analyzed: 08/26/15 17:04 Lab File ID: 50826012.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	08/27/15 10:34

Lab Sample ID: IC 180-151868/14 Client Sample ID:

Date Analyzed: 08/26/15 17:52 Lab File ID: 50826014.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.70	Incomplete Integration	fergusond	08/27/15 10:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CHHP5 Analysis Batch Number: 155577

Lab Sample ID: CCVIS 180-155577/2 Client Sample ID:

Date Analyzed: 10/01/15 13:46 Lab File ID: 51001002.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Incomplete Integration	fergusond	10/01/15 14:01

Lab Sample ID: 180-48073-5 DL Client Sample ID: HD-MW-94-0/1-0 DL

Date Analyzed: 10/01/15 20:12 Lab File ID: 51001020.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.35	Incomplete Integration	fergusond	10/02/15 07:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CHHP5 Analysis Batch Number: 155711

Lab Sample ID: 180-48073-6 Client Sample ID: HD-MW-57-0/1-0

Date Analyzed: 10/02/15 23:10 Lab File ID: 51002029.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane	6.54	Missed Peak	fergusond	10/03/15 08:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CHHP5 Analysis Batch Number: 155884

Lab Sample ID: LCS 180-155884/7 Client Sample ID:

Date Analyzed: 10/05/15 13:34 Lab File ID: 51005007.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	10/05/15 13:53

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CH732 Analysis Batch Number: 151940

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CH732 Analysis Batch Number: 151940

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

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

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

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

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

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

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

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

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
OPLVISPKMIX1i_00044	03/23/16	09/23/15	Methanol, Lot 0000082533	100 mL	SVLVstd1_00036	20 mL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Methylphenol	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Azobenzene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

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.: 180-48073-1

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.: 180-48073-1

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SVTAPITINTRNi_00009	09/09/16	09/09/15	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00003	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
.SVLVIntstd_00003	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SVTAPSTD0.4i_00009	11/07/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	5 uL	Benzo[e]pyrene	0.2 ug/mL
							2,3,5,6-Tetrachlorophenol	0.2 ug/mL
							2-Naphthylamine	0.2 ug/mL
							7,12-Dimethylbenz(a)anthracene	0.2 ug/mL
							1,1'-Biphenyl	0.2 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.2 ug/mL
							1,2,4-Trichlorobenzene	0.2 ug/mL
							1,2-Dichlorobenzene	0.2 ug/mL
							1,2-Diphenylhydrazine	0.2 ug/mL
							1,3-Dichlorobenzene	0.2 ug/mL
							1,3-Dinitrobenzene	0.2 ug/mL
							1,4-Dichlorobenzene	0.2 ug/mL
							1,4-Dioxane	0.2 ug/mL
							1-Methylnaphthalene	0.2 ug/mL
							2,2'-oxybis[1-chloropropane]	0.2 ug/mL
							2,3,4,6-Tetrachlorophenol	0.2 ug/mL
							2,4,5-Trichlorophenol	0.2 ug/mL
							2,4,6-Trichlorophenol	0.2 ug/mL
							2,4-Dichlorophenol	0.2 ug/mL
							2,4-Dimethylphenol	0.2 ug/mL
							2,4-Dinitrophenol	0.4 ug/mL
							2,4-Dinitrotoluene	0.2 ug/mL
							2,6-Dichlorophenol	0.2 ug/mL
							2,6-Dinitrotoluene	0.2 ug/mL
							2-Chloronaphthalene	0.2 ug/mL
							2-Chlorophenol	0.2 ug/mL
							2-Methylnaphthalene	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octadecane	0.2 ug/mL
							Naphthalene	0.2 ug/mL
							Nitrobenzene	0.2 ug/mL
							Pentachlorophenol	0.4 ug/mL
							Phenanthrene	0.2 ug/mL
							Phenol	0.2 ug/mL
							Pyrene	0.2 ug/mL
							Pyridine	0.2 ug/mL
							Benzoic acid	0.2 ug/mL
							Indene	0.2 ug/mL
							Atrazine	0.2 ug/mL
							Benzaldehyde	0.2 ug/mL
							Caprolactam	0.2 ug/mL
							3,3'-Dichlorobenzidine	0.2 ug/mL
							Benzidine	0.2 ug/mL
							2,4,6-Tribromophenol (Surr)	0.2 ug/mL
							2-Fluorobiphenyl	0.2 ug/mL
							2-Fluorophenol (Surr)	0.2 ug/mL
							Nitrobenzene-d5 (Surr)	0.2 ug/mL
							Phenol-d5 (Surr)	0.2 ug/mL
							Terphenyl-d14 (Surr)	0.2 ug/mL
							Methyl methanesulfonate	0.2 ug/mL
							N-Nitrosopyrrolidine	0.2 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

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.: 180-48073-1

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.: 180-48073-1

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.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00123	08/27/15	08/20/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	125 uL	Benzo[e]pyrene	5 ug/mL
							2,3,5,6-Tetrachlorophenol	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Naphthylamine	5 ug/mL
							7,12-Dimethylbenz(a)anthracene	5 ug/mL
							1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dichlorophenol	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Methylphenol	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Hexadecane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							n-Decane	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							n-Octadecane	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	5 ug/mL
							Benzoic acid	5 ug/mL
							Indene	5 ug/mL
							Atrazine	5 ug/mL
							Benzaldehyde	5 ug/mL
							Caprolactam	5 ug/mL
							3,3'-Dichlorobenzidine	5 ug/mL
							Benzidine	5 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
							Methyl methanesulfonate	5 ug/mL
							N-Nitrosopyrrolidine	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

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.: 180-48073-1

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.: 180-48073-1

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.: 180-48073-1

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.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_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
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	SVLVstd1_00032	800 uL	1,4-Dioxane	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	40 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SVTAPSTD2.0i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	25 uL	Benzo[e]pyrene	1 ug/mL
							2,3,5,6-Tetrachlorophenol	1 ug/mL
							2-Naphthylamine	1 ug/mL
							7,12-Dimethylbenz(a)anthracene	1 ug/mL
							1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
							Methyl methanesulfonate	1 ug/mL
							N-Nitrosopyrrolidine	1 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD20i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	250 uL	Benzo[e]pyrene	10 ug/mL
							2,3,5,6-Tetrachlorophenol	10 ug/mL
							2-Naphthylamine	10 ug/mL
							7,12-Dimethylbenz(a)anthracene	10 ug/mL
							1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Hexadecane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	10 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
							Methyl methanesulfonate	10 ug/mL
							N-Nitrosopyrrolidine	10 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD4.0i_00008	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	50 uL	Benzo[e]pyrene	2 ug/mL
							2,3,5,6-Tetrachlorophenol	2 ug/mL
							2-Naphthylamine	2 ug/mL
							7,12-Dimethylbenz(a)anthracene	2 ug/mL
							1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3-Nitroaniline	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
							Methyl methanesulfonate	2 ug/mL
							N-Nitrosopyrrolidine	2 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD40i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	500 uL	Benzo[e]pyrene	20 ug/mL
							2,3,5,6-Tetrachlorophenol	20 ug/mL
							2-Naphthylamine	20 ug/mL
							7,12-Dimethylbenz(a)anthracene	20 ug/mL
							1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Methylphenol	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Caprolactam	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
							Methyl methanesulfonate	20 ug/mL
							N-Nitrosopyrrolidine	20 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD60i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	750 uL	Benzo[e]pyrene	30 ug/mL
							2,3,5,6-Tetrachlorophenol	30 ug/mL
							2-Naphthylamine	30 ug/mL
							7,12-Dimethylbenz(a)anthracene	30 ug/mL
							1,1'-Biphenyl	30 ug/mL
							1,2,4,5-Tetrachlorobenzene	30 ug/mL
							1,2,4-Trichlorobenzene	30 ug/mL
							1,2-Dichlorobenzene	30 ug/mL
							1,2-Diphenylhydrazine	30 ug/mL
							1,3-Dichlorobenzene	30 ug/mL
							1,3-Dinitrobenzene	30 ug/mL
							1,4-Dichlorobenzene	30 ug/mL
							1,4-Dioxane	30 ug/mL
							1-Methylnaphthalene	30 ug/mL
							2,2'-oxybis[1-chloropropane]	30 ug/mL
							2,3,4,6-Tetrachlorophenol	30 ug/mL
							2,4,5-Trichlorophenol	30 ug/mL
							2,4,6-Trichlorophenol	30 ug/mL
							2,4-Dichlorophenol	30 ug/mL
							2,4-Dimethylphenol	30 ug/mL
							2,4-Dinitrophenol	60 ug/mL
							2,4-Dinitrotoluene	30 ug/mL
							2,6-Dichlorophenol	30 ug/mL
							2,6-Dinitrotoluene	30 ug/mL
							2-Chloronaphthalene	30 ug/mL
							2-Chlorophenol	30 ug/mL
							2-Methylnaphthalene	30 ug/mL
							2-Methylphenol	30 ug/mL
							2-Nitroaniline	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	30 ug/mL
							3-Nitroaniline	30 ug/mL
							4,6-Dinitro-2-methylphenol	60 ug/mL
							4-Bromophenyl phenyl ether	30 ug/mL
							4-Chloro-3-methylphenol	30 ug/mL
							4-Chloroaniline	30 ug/mL
							4-Chlorophenyl phenyl ether	30 ug/mL
							4-Methylphenol	30 ug/mL
							4-Nitroaniline	30 ug/mL
							4-Nitrophenol	60 ug/mL
							Acenaphthene	30 ug/mL
							Acenaphthylene	30 ug/mL
							Acetophenone	30 ug/mL
							Aniline	30 ug/mL
							Anthracene	30 ug/mL
							Benzo[a]anthracene	30 ug/mL
							Benzo[a]pyrene	30 ug/mL
							Benzo[b]fluoranthene	30 ug/mL
							Benzo[g,h,i]perylene	30 ug/mL
							Benzo[k]fluoranthene	30 ug/mL
							Benzyl alcohol	30 ug/mL
							Bis(2-chloroethoxy)methane	30 ug/mL
							Bis(2-chloroethyl)ether	30 ug/mL
							Bis(2-ethylhexyl) phthalate	30 ug/mL
							Butyl benzyl phthalate	30 ug/mL
							Carbazole	30 ug/mL
							Chrysene	30 ug/mL
							Di-n-butyl phthalate	30 ug/mL
							Di-n-octyl phthalate	30 ug/mL
							Dibenz(a,h)anthracene	30 ug/mL
							Dibenzofuran	30 ug/mL
							Diethyl phthalate	30 ug/mL
							Dimethyl phthalate	30 ug/mL
							Fluoranthene	30 ug/mL
							Fluorene	30 ug/mL
							Hexachlorobenzene	30 ug/mL
							Hexachlorobutadiene	30 ug/mL
							Hexachlorocyclopentadiene	30 ug/mL
							Hexachloroethane	30 ug/mL
							Hexadecane	30 ug/mL
							Indeno[1,2,3-cd]pyrene	30 ug/mL
							Isophorone	30 ug/mL
							n-Decane	30 ug/mL
							N-Nitrosodi-n-propylamine	30 ug/mL
							N-Nitrosodimethylamine	30 ug/mL
							N-Nitrosodiphenylamine	60 ug/mL
							n-Octadecane	30 ug/mL
							Naphthalene	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	30 ug/mL
							Pentachlorophenol	60 ug/mL
							Phenanthrene	30 ug/mL
							Phenol	30 ug/mL
							Pyrene	30 ug/mL
							Pyridine	30 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							Atrazine	30 ug/mL
							Benzaldehyde	30 ug/mL
							Caprolactam	30 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	30 ug/mL
							2,4,6-Tribromophenol (Surr)	30 ug/mL
							2-Fluorobiphenyl	30 ug/mL
							2-Fluorophenol (Surr)	30 ug/mL
							Nitrobenzene-d5 (Surr)	30 ug/mL
							Phenol-d5 (Surr)	30 ug/mL
							Terphenyl-d14 (Surr)	30 ug/mL
							Methyl methanesulfonate	30 ug/mL
							N-Nitrosopyrrolidine	30 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD80i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	1000 uL	Benzo[e]pyrene	40 ug/mL
							2,3,5,6-Tetrachlorophenol	40 ug/mL
							2-Naphthylamine	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
							N-Nitrosopyrrolidine	40 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
VOA8260INT_00040	09/03/15	08/03/15	Methanol, Lot 85233	10 mL	VOA8260INTRES_00088	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_00088	07/31/19		Restek, Lot A0104742		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
VOA8260INT_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_00040	09/03/15	08/03/15	Methanol, Lot 85233	100 mL	VOA8260SURRES_00067	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_00067	01/31/19		Restek, Lot A0100424		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260SURR_00042	10/11/15	09/11/15	Methanol, Lot 99494	100 mL	VOA8260SURRES_00077	1 mL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.VOA8260SURRES_00077	01/31/19		Restek, Lot A0101000		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
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
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichloroethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylene Chloride	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
..VOA8260MEGA2_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
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VOA8260VOA2ND_00146	10/09/15	10/02/15	Methanol, Lot 99494	10 mL	VOA8260GAS2ND_00115	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOA2ND_00145	1 mL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane (EDB)	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,4-Dioxane	500 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	50 ug/mL
.VOA8260GAS2ND_00115	04/30/18		Restek, Lot A0111273		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	2500 ug/mL
.VOA8260VOA2ND_00145	10/25/15	09/25/15	Methanol, Lot 99494	10 mL	VOA8260MEGA2_00037	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylene Chloride	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
..VOA8260MEGA2_00037	01/31/17		Restek, Lot A0108163		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
VOA8260VOAPRI_00139	09/01/15	08/25/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00113	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_00136	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							trans-1,4-Dichloro-2-butene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00113	04/30/18		Restek, Lot A0110070		(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_00136	09/06/15	08/06/15	Methanol, Lot 85233	10 mL	VOA8260KET1ST_00048	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_00032	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromobenzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							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_00048	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_00032	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							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_00147	10/09/15	10/02/15	Methanol, Lot 99494	10 mL	VOA8260GAS1ST_00118	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00146	1 mL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane (EDB)	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,4-Dioxane	500 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromochloromethane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
..VOA8260MEGA1_00034	02/28/16		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Acrylonitrile	25000 ug/mL
							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
VOAACROLEINPR_00006	09/11/15	08/11/15	Methanol, Lot 85233	100 mL	VOAACRORES_00077	0.125 mL	Acrolein	25 ug/mL
.VOAACRORES_00077	09/30/15		Restek, Lot A0111006		(Purchased Reagent)		Acrolein	20000 ug/mL
VOAVAPRI_00006	08/31/15	08/25/15	Methanol, Lot 85233	50 mL	VOA8260VARES_00054	0.25 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00054	08/31/15		Restek, Lot A0109190		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
voaWEE1stRest_00001	09/21/15	08/21/15	Methanol, Lot 85233	25 mL	VOARESEE1ST_00021	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

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	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_00021	09/30/16		Restek, Lot A0109701		(Purchased Reagent)		1,2-dichloro-4-(trifluoromethyl)benzene	5000 ug/mL
							2,3,6-Trichlorotoluene	5000 ug/mL
							2,3- & 3,4- Dichlorotoluene	10000 ug/mL
							2,4,5-Trichlorotoluene	5000 ug/mL
							2,4- & 2,5- & 2,6-Dichlorotoluene	15000 ug/mL
							2,4-Dichloro-1-(triflouromethyl)-benzene	5000 ug/mL
							2,5-Dichlorobenzotrifluoride	5000 ug/mL
							2-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorotoluene	5000 ug/mL
							4-Chlorobenzotrifluoride	5000 ug/mL
voaWKet1 Rest_00001	09/11/15	08/11/15	Methanol, Lot 85233	50 mL	VOA8260KET1ST_00049	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_00049	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	12500 ug/mL
WCr6P50i_00030	12/04/15	07/24/15	DI Water, Lot NA	100 mL	WCr1000S_00003	5 mL	Cr (VI)	50 mg/L
.WCr1000S_00003	01/08/17	LabChem, Inc., Lot E007-10			(Purchased Reagent)		Cr (VI)	1000 ppm
WCr6P5i_00720	09/25/15	09/24/15	DI Water, Lot NA	200 mL	WCr6S50SP_00045	20 mL	Cr (VI)	4.99976 mg/L
.WCr6S50SP_00045	12/04/15	07/24/15	DI Water, Lot NA	200 mL	WCR+6 1000 P_00006	10 mL	Cr (VI)	49.9976 mg/L
..WCR+6 1000 P_00006	12/04/15	06/04/15	DI Water, Lot NA	250 mL	WK2CrO7P_00004	0.7072 g	Cr (VI)	999.953 mg/L
...WK2CrO7P_00004	10/17/17	J.T.Baker, Lot 0000034869			(Purchased Reagent)		Cr (VI)	0.35349 g/g
WCr6S50SP_00045	12/04/15	07/24/15	DI Water, Lot NA	200 mL	WCR+6 1000 P_00006	10 mL	Cr (VI)	49.9976 mg/L
.WCR+6 1000 P_00006	12/04/15	06/04/15	DI Water, Lot NA	250 mL	WK2CrO7P_00004	0.7072 g	Cr (VI)	999.953 mg/L
..WK2CrO7P_00004	10/17/17	J.T.Baker, Lot 0000034869			(Purchased Reagent)		Cr (VI)	0.35349 g/g

Reagent

sv benzoepyre_00001

Absolute Standards, Inc.
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Certified Reference Material CRM

5V Benzo pyrene primary
100313

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

CERTIFIED WEIGHT REPORT

			Lot #	
Part Number:	71016	**Solvent(s):**	44325	Methylene chloride
Lot Number:	100313			
Description:	Benzo(e)pyrene			
Expiration Date:	100318			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	1000			

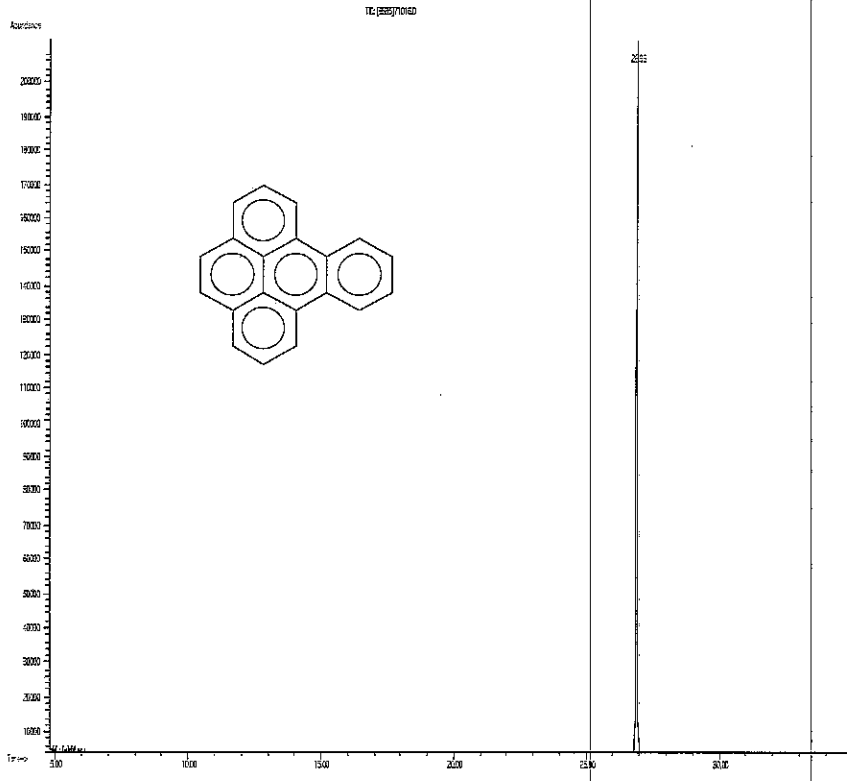
Paul Barron			100313
Formulated By:	Paul Barron		DATE
Pedro Rentas			100313
Reviewed By:	Pedro L. Rentas		DATE

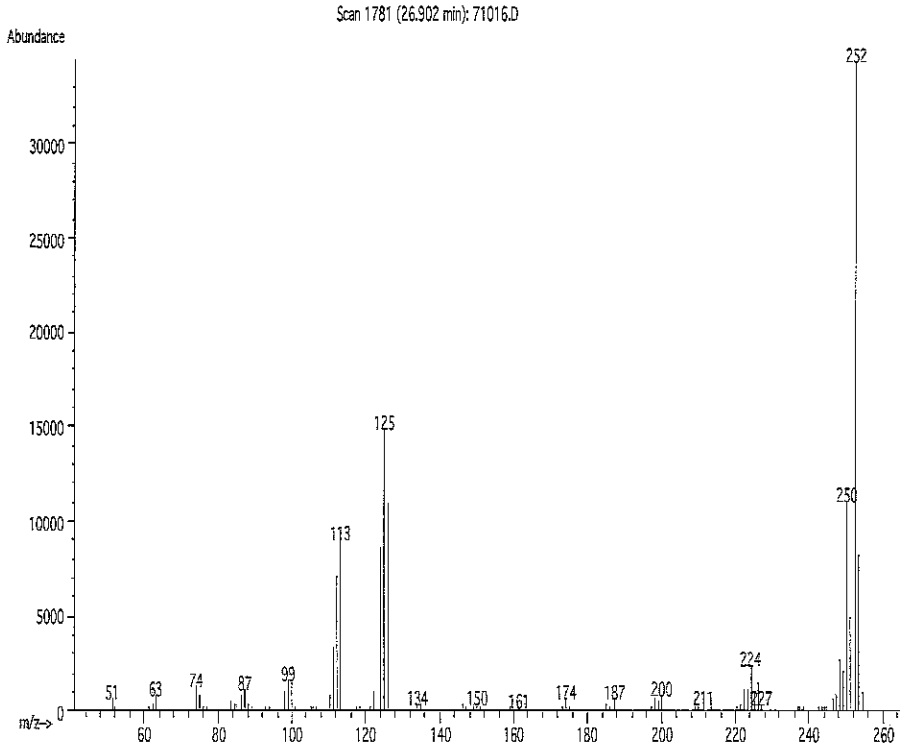
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to: 100.0 0.003 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty ± Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Benzo(e)pyrene	1016	012011	1000	99	0.2	0.10100	0.10125	1002.5	0.0042	00192-97-2	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





Reagent

SV2356TCPs_00002

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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

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

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

Solvent(s): Lot # J42S08 Methylene chloride

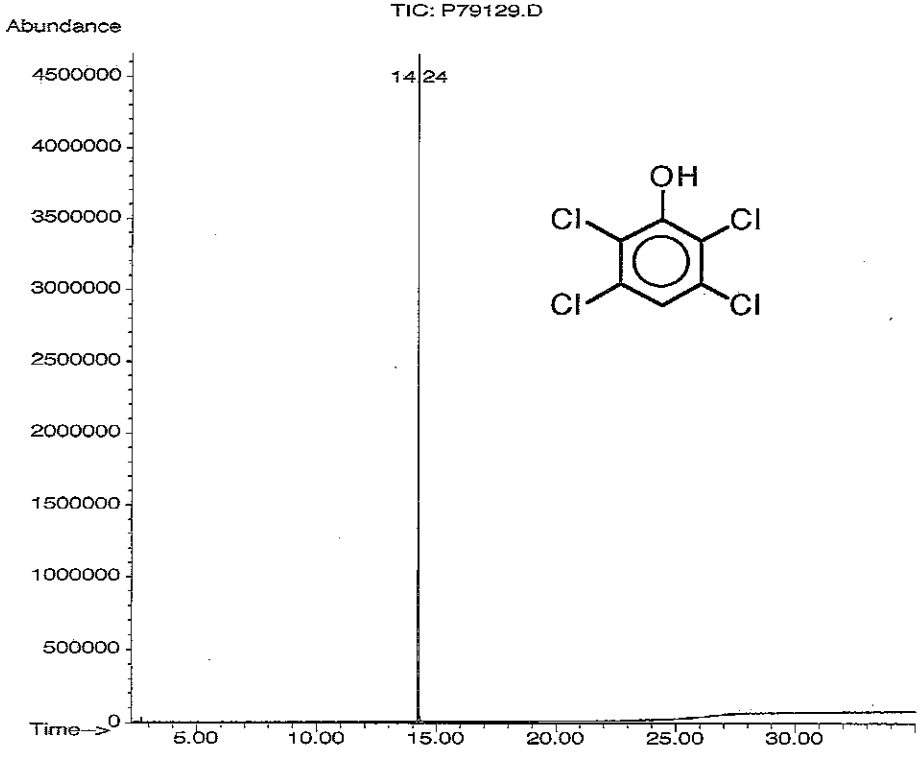
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 25.0 0.001 Flask Uncertainty

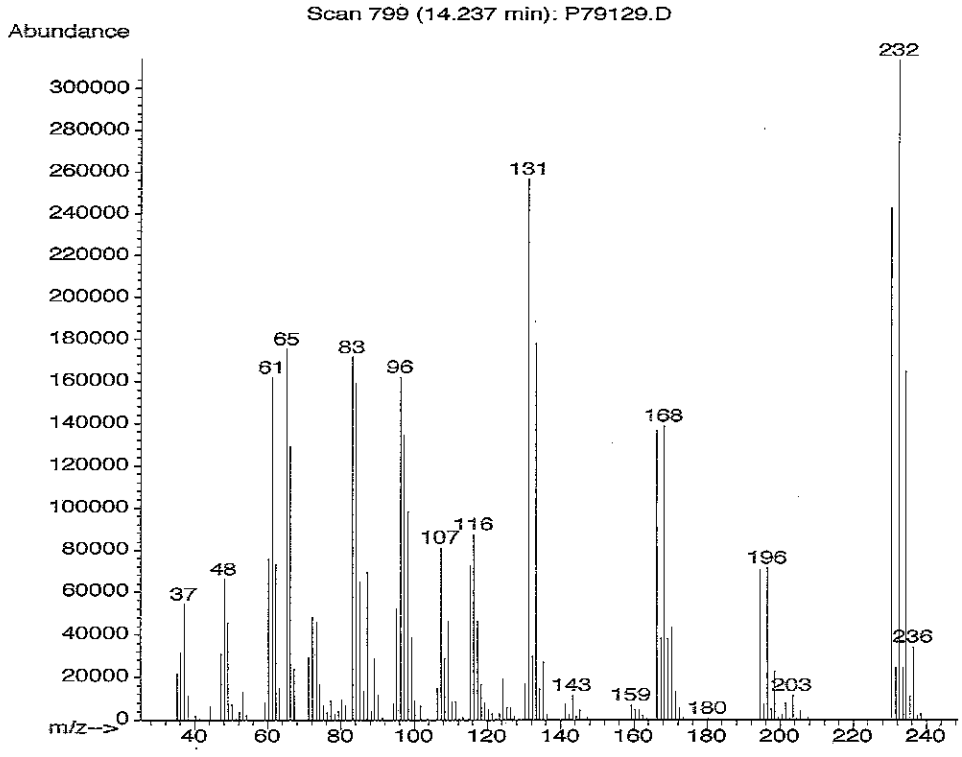
Pat Scaturchio	061711
Formulated By: Pat Scaturchio	DATE
Pedro L. Rentas	061711
Reviewed By: Pedro L. Rentas	DATE

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty ; Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 2,3,5,6-Tetrachlorophenol	315	060697	1000	98	0.2	0.02550	0.02559	1003.4	0.0057	00935-95-5	N/A	N/A

Method GC8MSD-3.M: Column: SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C. Scan Rate = 2, Split Ratio = 100:1. Analysis performed by Lance R. Boynton.





Reagent

SV2NAPAMINEs_00002

Certificate of Analysis

2-Naphthylamine Solution

Product Number: EPA-1135 **Page:** 1 of 1

Lot Number: CK-1617 **Lot Issue Date:** 20-May-2013 **Expiration Date:** 30-Jun-2017

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2-naphthylamine	000091-59-8	RM06488	1001 ± 5 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (15-30°C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

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		

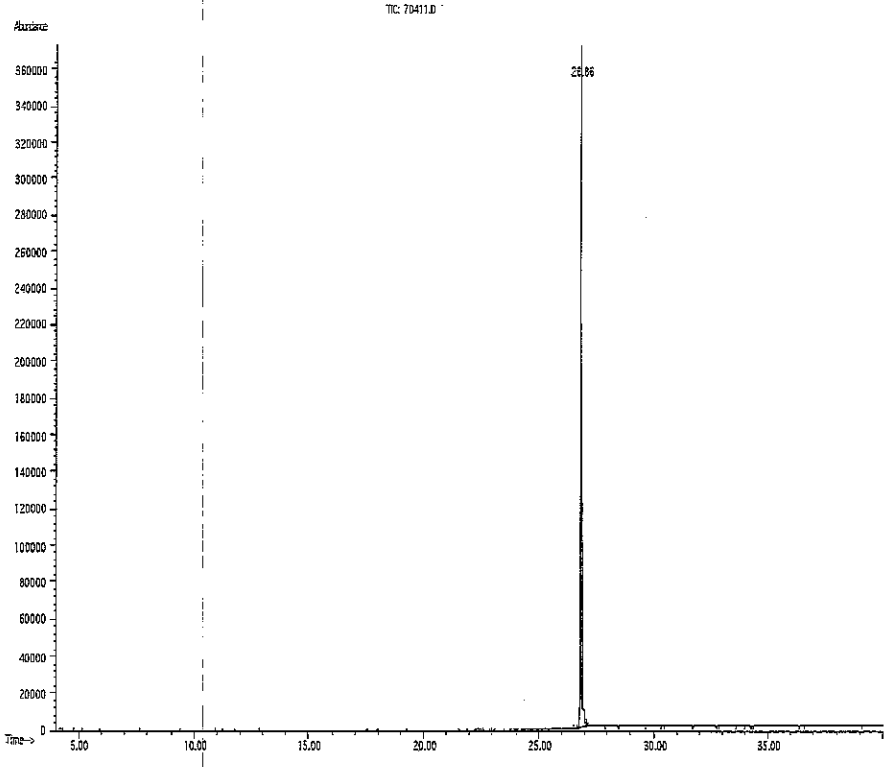
Weight(s) shown below were combined and diluted to (mL): 25.0 — 5E-05 Balance Uncertainty, 0.001 Flask Uncertainty

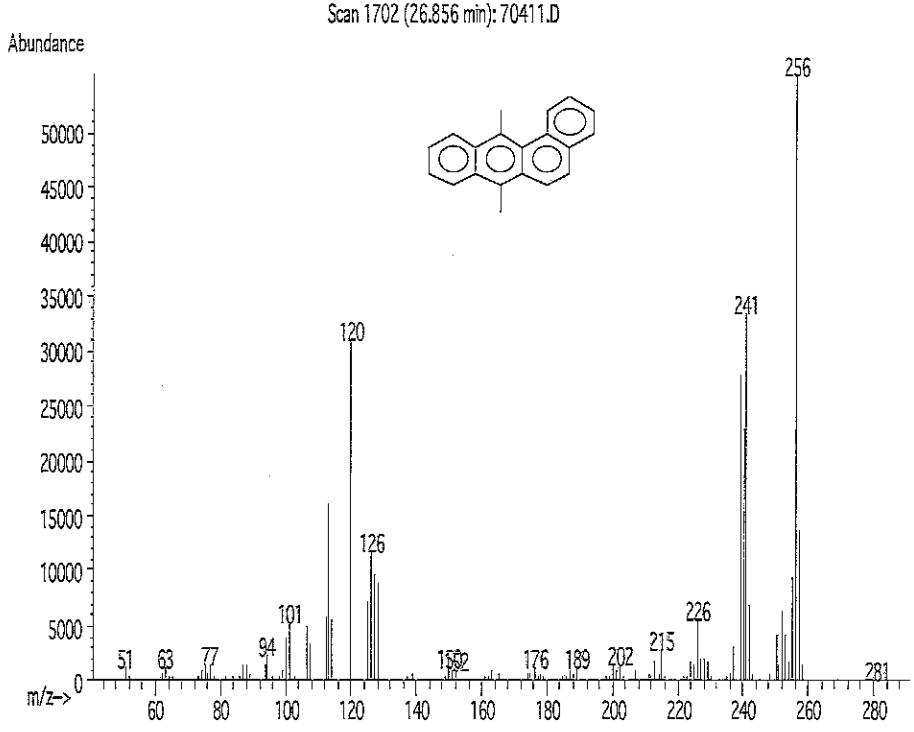
Paul Barron	040915	
Formulated By: Paul Barron	DATE	
Pedro L. Rentas	040915	
Reviewed By: Pedro L. Rentas	DATE	

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

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Fax: (814)353-1309

www.restek.com

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

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

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

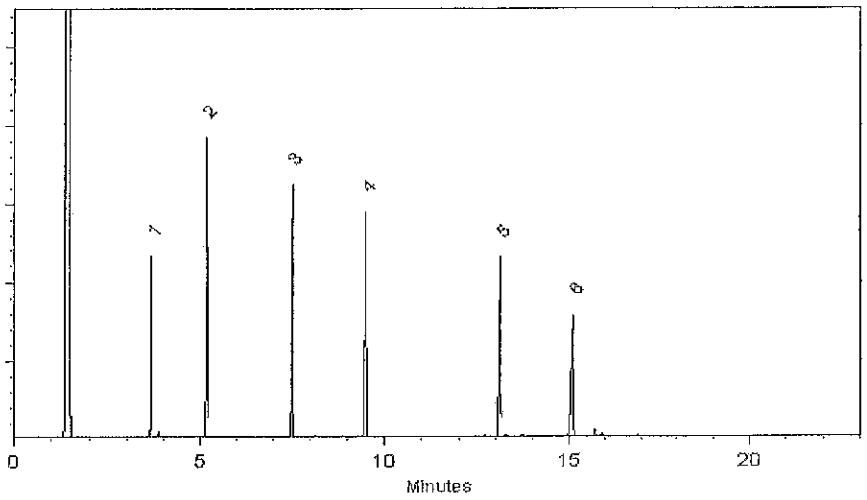
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 of Analysis

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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:
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Det. Temp:
330°C

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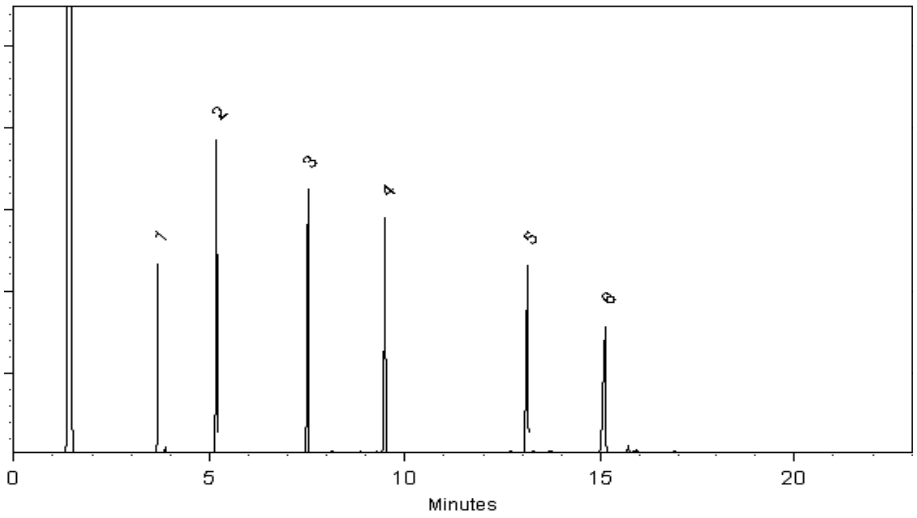
FID



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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 569729 **Lot No.:** A0107399

Description : 8270 List 1 / Std #1 MegaMix (2015)

8270 List 1 / Std #1 MegaMix (2015) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

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

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

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

CERTIFIED VALUES

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

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

56	Azobenzene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot MKBS2559V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
57	Diphenylamine		1,713.4	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot 07525MF)			+/-	18.7595	µg/mL	Unstressed
	Purity 99%				+/-	31.8192	µg/mL	Stressed
58	4-Nitroaniline		1,002.8	µg/mL	+/-	5.8304	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	10.9794	µg/mL	Unstressed
	Purity 99%				+/-	18.6228	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,002.0	µg/mL	+/-	11.6398	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC06195V)			+/-	21.9193	µg/mL	Unstressed
	Purity 99%				+/-	37.1787	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
61	Hexachlorobenzene		1,002.1	µg/mL	+/-	5.8260	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LC04221V)			+/-	10.9711	µg/mL	Unstressed
	Purity 98%				+/-	18.6089	µg/mL	Stressed
62	Pentachlorophenol		2,000.3	µg/mL	+/-	11.6299	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 140626JLM)			+/-	21.9007	µg/mL	Unstressed
	Purity 99%				+/-	37.1471	µg/mL	Stressed
63	Phenanthrene		999.0	µg/mL	+/-	5.8083	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBL6906V)			+/-	10.9379	µg/mL	Unstressed
	Purity 98%				+/-	18.5524	µg/mL	Stressed
64	n-Octadecane (C18)		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
65	Anthracene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBK5208V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
66	Carbazole		1,000.1	µg/mL	+/-	5.8146	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9497	µg/mL	Unstressed
	Purity 98%				+/-	18.5725	µg/mL	Stressed
67	Di-n-butylphthalate		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBL8501V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
68	Fluoranthene		999.7	µg/mL	+/-	5.8123	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKBQ6360V)			+/-	10.9454	µg/mL	Unstressed
	Purity 98%				+/-	18.5652	µg/mL	Stressed
69	Pyrene		999.1	µg/mL	+/-	5.8089	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBJ0984V)			+/-	10.9390	µg/mL	Unstressed
	Purity 98%				+/-	18.5543	µg/mL	Stressed
70	Benzyl butyl phthalate		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
71	Benz(a)anthracene		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed

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

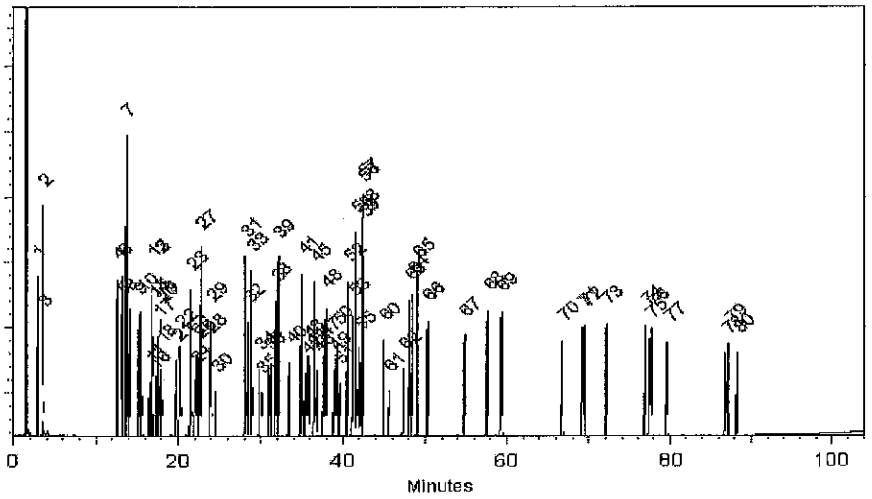
Carrier Gas:
hydrogen-constant pressure 10 psi

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician

Date Mixed: 24-Nov-2014 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 05-Dec-2014

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

Reagent

SVLVstd1_00036

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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)

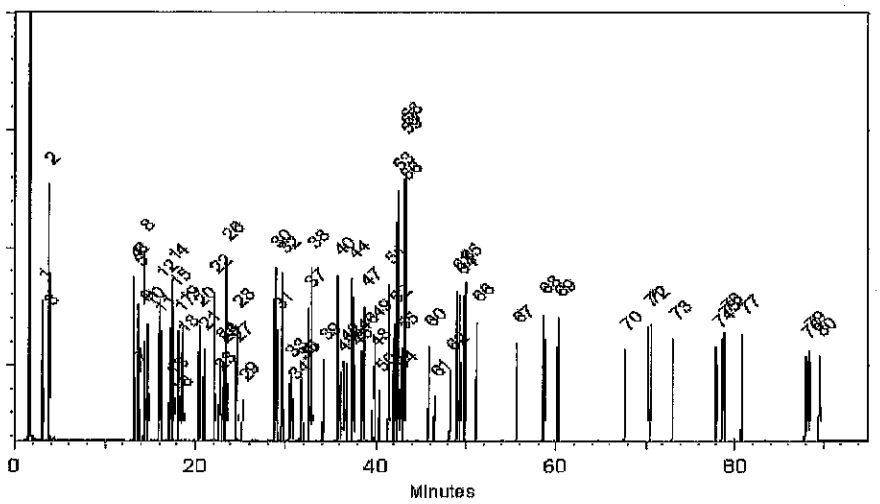
Carrier Gas:
hydrogen-constant pressure 10 psi

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569731 **Lot No.:** A0107943

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene		2,001.4 µg/mL	+/- 11.6363	µg/mL	Gravimetric
	CAS # 95-13-6	(Lot MKBP3098V)		+/- 22.5687	µg/mL	Unstressed
	Purity 99%			+/- 25.9700	µg/mL	Stressed
2	Benzoic acid		2,005.8 µg/mL	+/- 11.6619	µg/mL	Gravimetric
	CAS # 65-85-0	(Lot MKBL6689V)		+/- 22.6183	µg/mL	Unstressed
	Purity 99%			+/- 26.0271	µg/mL	Stressed

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

Reagent

SVLVstd11_00001

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

Catalog No. : 569732 **Lot No.:** A0108035

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde		2,000.6 µg/mL		+/- 11.6317	µg/mL	Gravimetric
	CAS # 100-52-7	(Lot SHBD3510V)			+/- 64.1305	µg/mL	Unstressed
	Purity 99%				+/- 74.5493	µg/mL	Stressed
2	epsilon-Caprolactam		2,001.2 µg/mL		+/- 11.6351	µg/mL	Gravimetric
	CAS # 105-60-2	(Lot I16X016)			+/- 64.1498	µg/mL	Unstressed
	Purity 99%				+/- 74.5716	µg/mL	Stressed
3	Atrazine		2,004.3 µg/mL		+/- 11.6532	µg/mL	Gravimetric
	CAS # 1912-24-9	(Lot TZ8ED)			+/- 64.2490	µg/mL	Unstressed
	Purity 98%				+/- 74.6870	µg/mL	Stressed

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

Reagent

SVLVstd9_00001

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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. : 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_00011

SV 8270 SURROGATE

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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.

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

Absolute Standards, Inc.
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Analytical Reference Material ARM

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

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

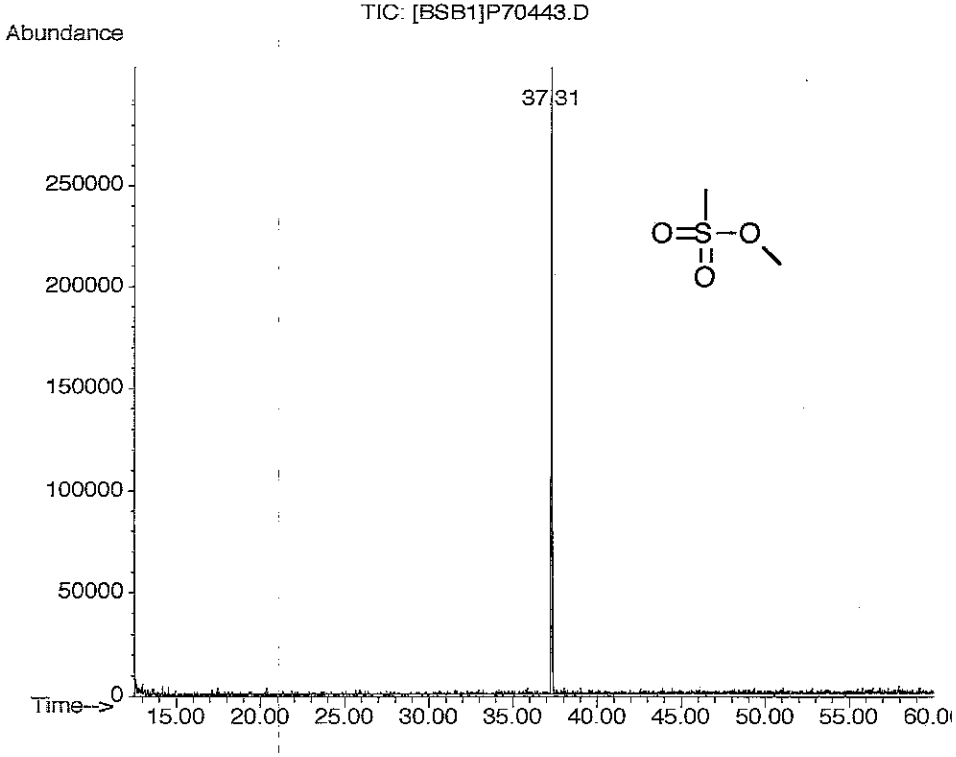
Weight(s) shown below were combined and diluted to: 25.0 5E-05 Balance Uncertainty 0.001 Flask Uncertainty

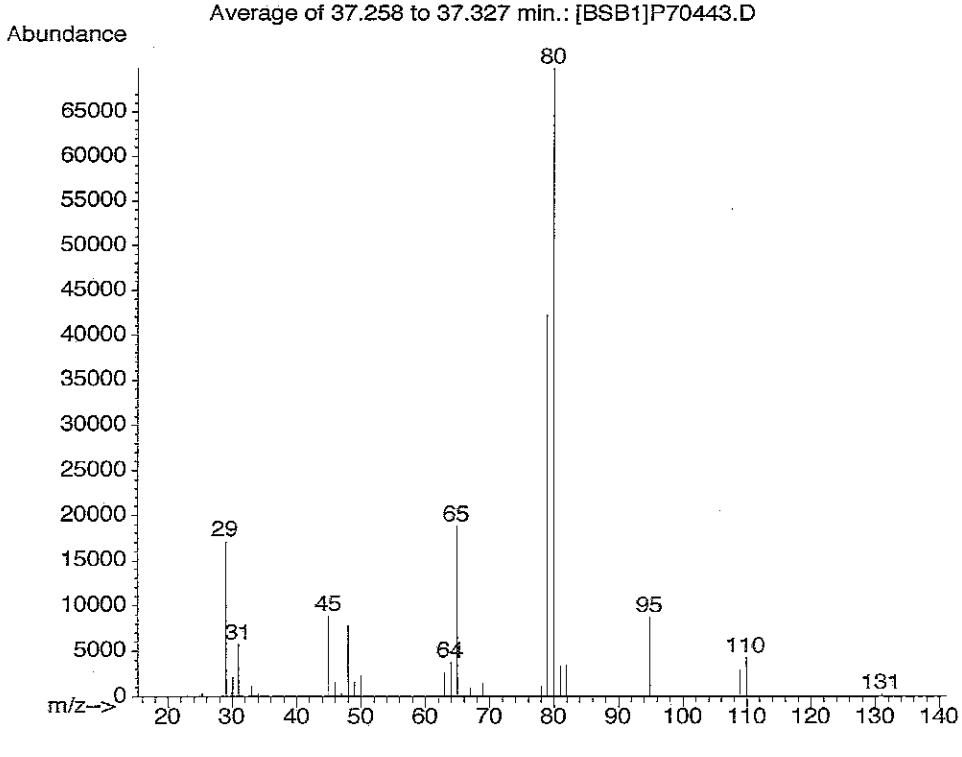
Formulated By:	Paul Barron	021315 DATE
Reviewed By:	Pedro L. Rentas	021315 DATE

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

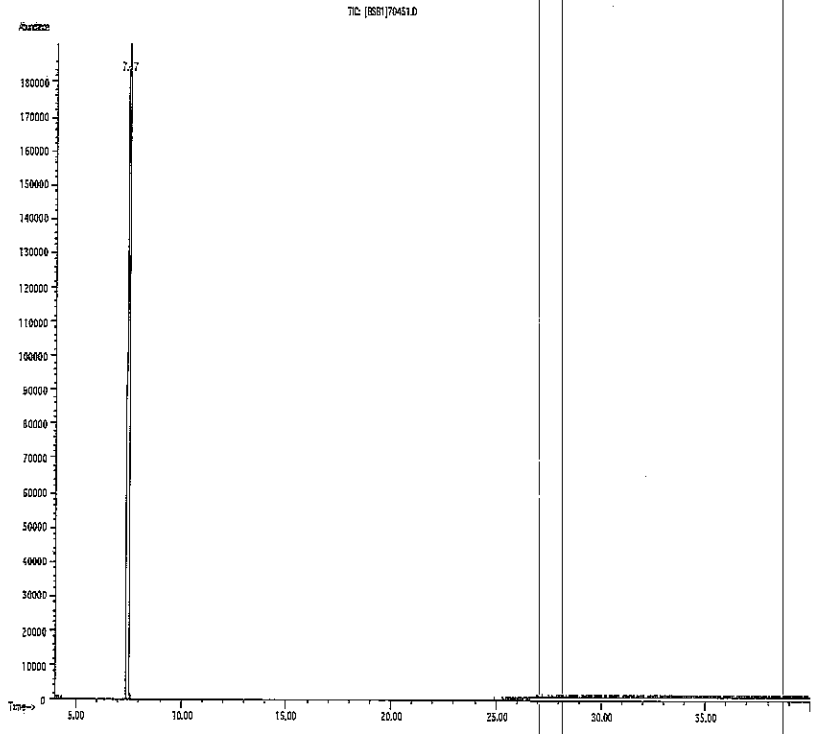
Formulated By: Paul Barron 060514 DATE

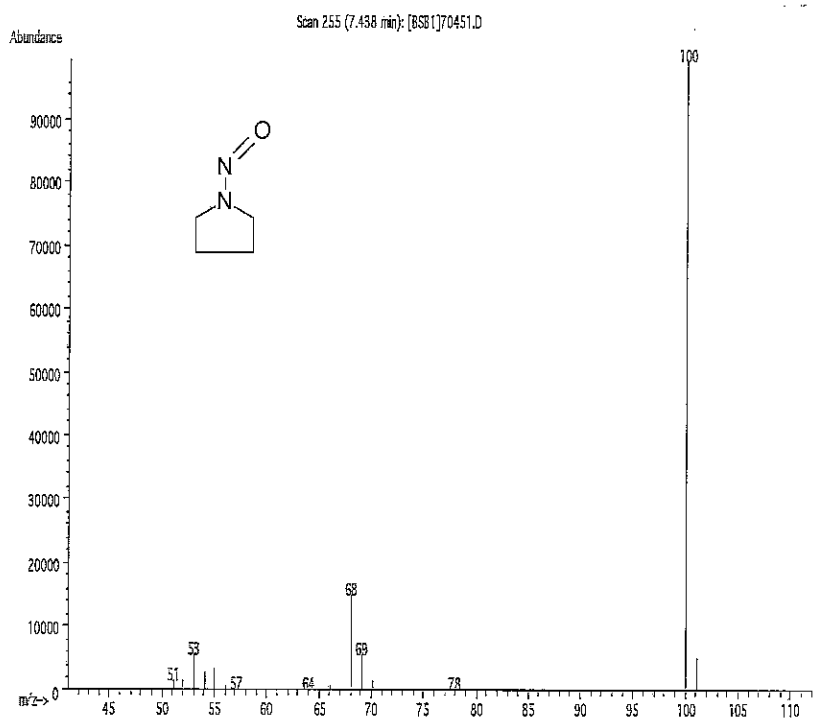
Reviewed By: Pedro L. Rentas 060514 DATE

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_00113

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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)

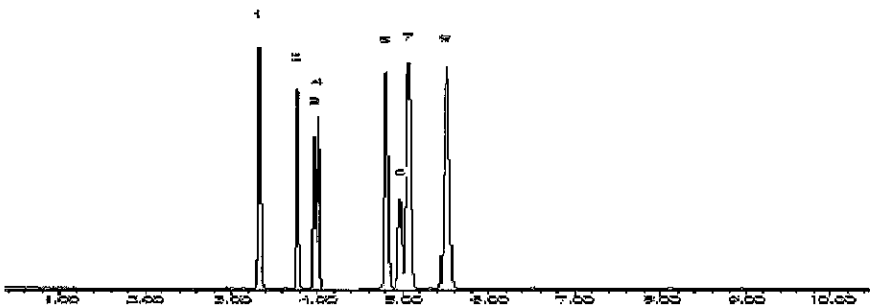
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

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

Catalog No. : 569722 **Lot No.:** A0110070

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot Q167-08) **Purity** 99%	2,499.9 µg/mL	+/- 17.9502 µg/mL +/- 30.0934 µg/mL +/- 34.1055 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBC8470V) **Purity** 99%	2,500.1 µg/mL	+/- 17.2963 µg/mL +/- 29.7101 µg/mL +/- 33.7686 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 17542) **Purity** 99%	2,500.2 µg/mL	+/- 16.5642 µg/mL +/- 29.2906 µg/mL +/- 33.4004 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBF3387V) **Purity** 99%	2,500.0 µg/mL	+/- 17.0072 µg/mL +/- 29.5416 µg/mL +/- 33.6200 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,499.8 µg/mL	+/- 18.9451 µg/mL +/- 30.6969 µg/mL +/- 34.6391 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot SHBD1717V) **Purity** 99%	2,500.3 µg/mL	+/- 17.6395 µg/mL +/- 29.9122 µg/mL +/- 33.9470 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot Q9B-58) **Purity** 99%	2,500.2 µg/mL	+/- 16.7318 µg/mL +/- 29.3854 µg/mL +/- 33.4835 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,500.3	µg/mL	+/-	16.5866	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBD5121V)			+/-	29.3037	µg/mL	Unstressed
	Purity 99%				+/-	33.4120	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

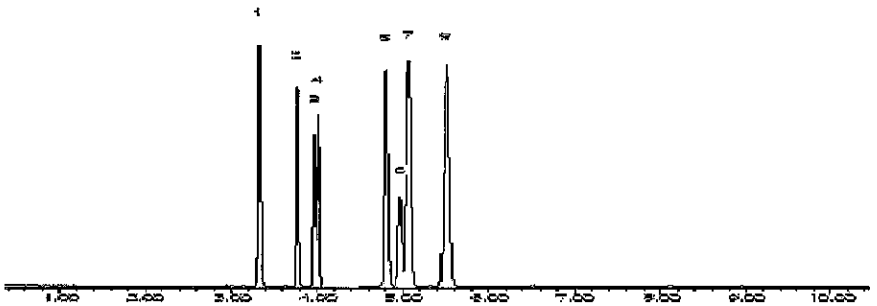
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

F. Joseph Tallon - Mix Technician

Date Mixed: 02-Apr-2015 **Balance:** B251644995

Tyler Brown - QA Analyst

Date Passed: 08-Apr-2015

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

Reagent

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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 +/- 30.0934 +/- 34.1055	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBC8470V) **Purity** 99%	2,500.1 µg/mL	+/- 17.2963 +/- 29.7101 +/- 33.7686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 17542) **Purity** 99%	2,500.2 µg/mL	+/- 16.5642 +/- 29.2906 +/- 33.4004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBF3387V) **Purity** 99%	2,500.0 µg/mL	+/- 17.0072 +/- 29.5416 +/- 33.6200	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,499.8 µg/mL	+/- 18.9451 +/- 30.6969 +/- 34.6391	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot SHBD1717V) **Purity** 99%	2,500.3 µg/mL	+/- 17.6395 +/- 29.9122 +/- 33.9470	µg/mL µg/mL 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 +/- 29.3854 +/- 33.4835	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,500.3	µg/mL	+/-	16.5866	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBD5121V)			+/-	29.3037	µg/mL	Unstressed
	Purity 99%				+/-	33.4120	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

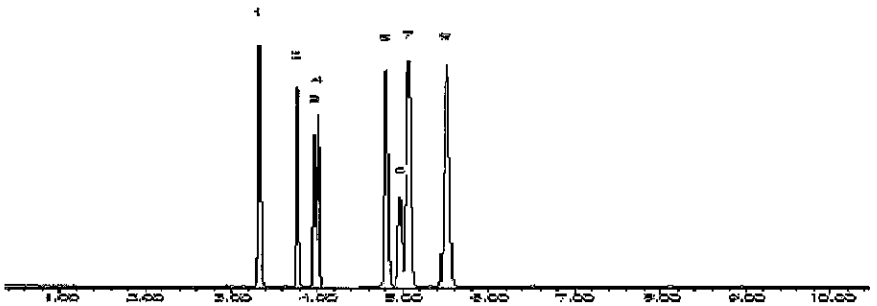
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

F. Joseph Tallon - Mix Technician

Date Mixed: 02-Apr-2015 **Balance:** B251644995

Tyler Brown - QA Analyst

Date Passed: 08-Apr-2015

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

Reagent

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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.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 +/- 34.1039 +/- 37.6853	µg/mL µg/mL 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 +/- 32.3897 +/- 36.1592	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,492.0 µg/mL	+/- 23.1023 +/- 33.3685 +/- 37.0056	µg/mL µg/mL 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 +/- 30.8102 +/- 34.7063	µg/mL µg/mL 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 +/- 31.8022 +/- 35.5993	µg/mL µg/mL 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 +/- 31.1495 +/- 35.0885	µg/mL µg/mL 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 +/- 30.6846 +/- 34.6386	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Reagent

VOA8260GAS2ND_00115

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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 +/- 34.1039 +/- 37.6853	µg/mL µg/mL 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 +/- 32.3897 +/- 36.1592	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,492.0 µg/mL	+/- 23.1023 +/- 33.3685 +/- 37.0056	µg/mL µg/mL 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 +/- 30.8102 +/- 34.7063	µg/mL µg/mL 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 +/- 31.8022 +/- 35.5993	µg/mL µg/mL 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 +/- 31.1495 +/- 35.0885	µg/mL µg/mL 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 +/- 30.6846 +/- 34.6386	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Reagent

VOA8260INTRES_00068

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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. : 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_00088

RESTEK® CERTIFIED REFERENCE MATERIAL

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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. : 567649 **Lot No.:** A0104742

Description : 8260 Internal Standard

8260 Internal Standard 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : July 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol	5,003.0 µg/mL	+/- 29.0879	µg/mL	Gravimetric
	CAS # 25725-11-5 (Lot I201P5)		+/- 106.1005	µg/mL	Unstressed
	Purity 99%		+/- 106.5713	µg/mL	Stressed
2	Fluorobenzene	250.8 µg/mL	+/- 1.4795	µg/mL	Gravimetric
	CAS # 462-06-6 (Lot 1380033)		+/- 5.3247	µg/mL	Unstressed
	Purity 99%		+/- 5.3483	µg/mL	Stressed
3	1,4-Dioxane-d8	5,009.6 µg/mL	+/- 29.1262	µg/mL	Gravimetric
	CAS # 17647-74-4 (Lot 11C-596)		+/- 106.2405	µg/mL	Unstressed
	Purity 99%		+/- 106.7119	µg/mL	Stressed
4	Chlorobenzene-d5	250.8 µg/mL	+/- 1.4795	µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-22736)		+/- 5.3247	µg/mL	Unstressed
	Purity 99%		+/- 5.3483	µg/mL	Stressed
5	1,4-Dichlorobenzene-d4	250.8 µg/mL	+/- 1.4795	µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-18488)		+/- 5.3247	µg/mL	Unstressed
	Purity 99%		+/- 5.3483	µg/mL	Stressed

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

Reagent

VOA8260KET1ST_00048

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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_00049

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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%

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VOA8260KET1ST_00051

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

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

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

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

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

CERTIFIED VALUES

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

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

Reagent

VOA8260MEGA1_00032

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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)

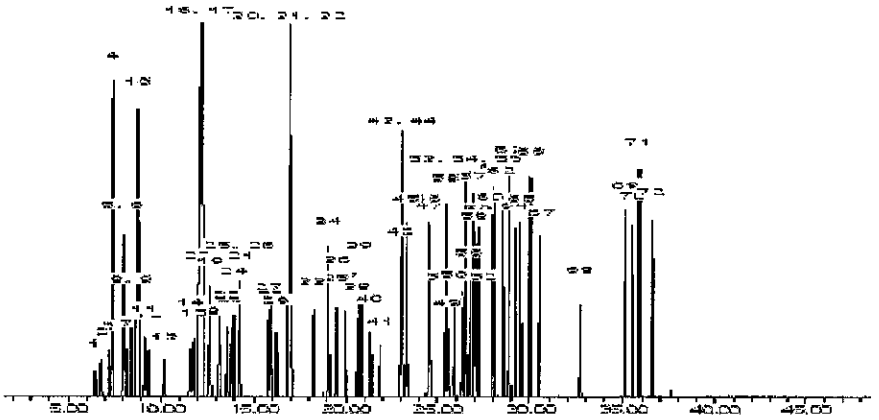
Carrier Gas:
helium-constant pressure 30 psi

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

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)

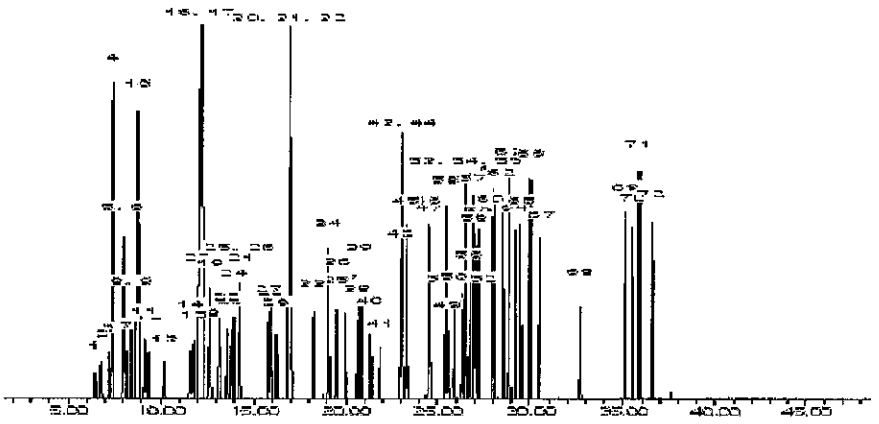
Carrier Gas:
helium-constant pressure 30 psi

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

VOA8260MEGA1_00034

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

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

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

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

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

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

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

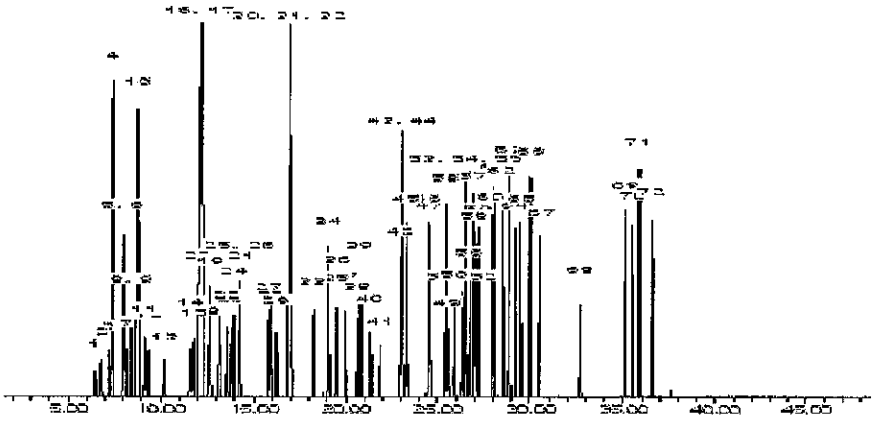
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Kendra Swope - Mix Technician

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

Tyler Brown - QA Analyst

Date Passed: 14-Jan-2015

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

Reagent

VOA8260MEGA2_00036

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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. : 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)

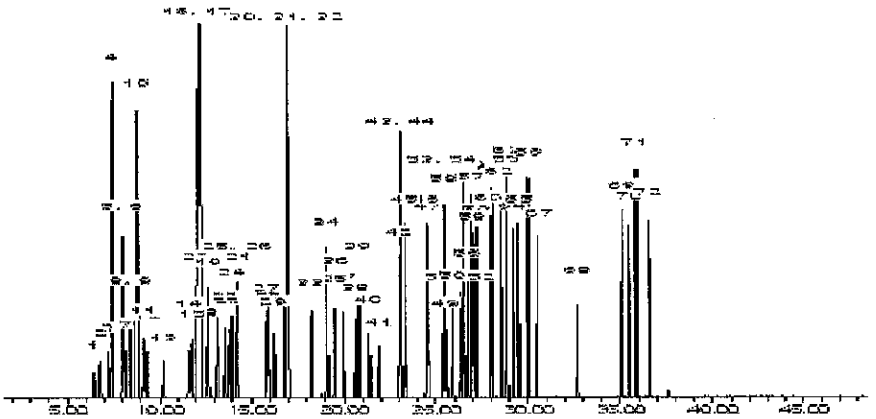
Carrier Gas:
helium-constant pressure 30 psi

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

VOA8260MEGA2_00037

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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. : 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)

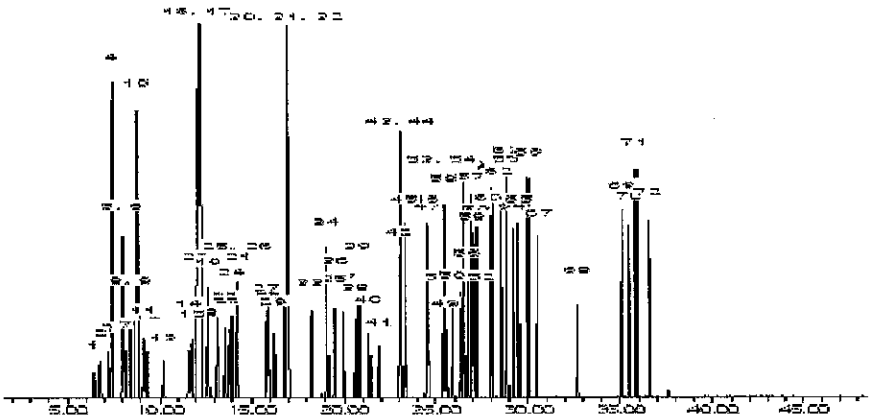
Carrier Gas:
helium-constant pressure 30 psi

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_00067

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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 **CAS #** 1868-53-7 (Lot 022012) **Purity** 99%	2,509.6 µg/mL	+/- 14.5910 µg/mL +/- 28.2993 µg/mL +/- 32.5644 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 12K-027) **Purity** 99%	2,508.2 µg/mL	+/- 14.5829 µg/mL +/- 28.2836 µg/mL +/- 32.5462 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot 13I-050) **Purity** 99%	2,508.8 µg/mL	+/- 14.5864 µg/mL +/- 28.2903 µg/mL +/- 32.5540 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 01127COV) **Purity** 99%	2,509.8 µg/mL	+/- 14.5922 µg/mL +/- 28.3016 µg/mL +/- 32.5670 µg/mL	Gravimetric Unstressed Stressed

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

Reagent

VOA8260VARES_00054

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

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

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

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

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

Expiration Date : August 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5,023.0 µg/mL	+/- 29.4778	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC8935V)		+/- 267.3430	µg/mL	Unstressed
	Purity 99%		+/- 267.6378	µg/mL	Stressed

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

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VOAACRORES_00077

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

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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. : 568720 **Lot No.:** A0111006

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	19,748.0 µg/mL	+/- 115.8923 µg/mL	Gravimetric
	CAS # 107-02-8 (Lot 150115JLM)		+/- 633.2311 µg/mL	Unstressed
	Purity 99%		+/- 736.0474 µg/mL	Stressed

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

Reagent

VOARESEE1ST_00021

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

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ilac-MRA

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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%

Reagent

WCr1000S_00003

LabChem
performance through chemistry
Jackson's Pointe Commerce Park - Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063
Ph: 412-826-5230 | Fax: 724-473-0647 | www.labchem.com

1522764
ID: WCr1000S_00003
Exp:01/08/17 Prpd:NAK Opn:04/03/15
1000ppm Cr+6

CERTIFICATE OF ANALYSIS

Description: CHROMIUM AA STANDARD, 1000ppm (1mL = 1mg Cr)

Mfg. Date: 01/08/2015

Catalog Number: LC13120

Exp. Date: 01/08/2017

Lot Number: E007-10

ANALYTICAL SECTION

Test	Specification	Test Result
Appearance	clear, orange solution	Pass Test
Concentration ppm Cr	1000ppm +/- 5ppm	1002 ppm
Concentration mg Cr/mL	1.000 +/- 0.005 mg Cr/mL	1.002 mg Cr/mL
Traceable to NIST	Potassium Dichromate	136f

Submitted by: Greg Albright, Chemist Supervisor

Greg Albright

An ISO9001:2008 certified company. Registration # 0306-01

04/03/2015 2:12 PM

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.: 180-48073-1

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-11-0/1-0	180-48073-1	101	98	97	87
HD-MW-16S-0/1-0	180-48073-2	104	96 ^c	97	85
HD-MW-16D-0/1-0	180-48073-3	107	98	100	91
HD-MW-49S-0/1-0	180-48073-4	109	101 ^c	94	86
HD-MW-94-0/1-0	180-48073-5	107	96	93	85
HD-MW-94-0/1-0 DL	180-48073-5 DL	106	94	94	85
HD-MW-57-0/1-0	180-48073-6	109	101 ^c	96	86
HD-QC7-0/1-2	180-48073-7	102	95	96	86
	MB 180-155577/7	99	97	95	88
	MB 180-155711/6	101	96	92	88
	MB 180-155884/4	105	93	91	88
	LCS 180-155577/12	88	80	90	94
	LCS 180-155711/9	93	86	100	96
	LCS 180-155884/7	91	82	99	90
HD-MW-11-0/1-0 MS	180-48073-1 MS	85	78	99	98
HD-MW-11-0/1-0 MSD	180-48073-1 MSD	90	79	96	95

	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.: 180-48073-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 51001012.D

Lab ID: LCS 180-155577/12 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	9.95	99	50-139	
Vinyl chloride	10.0	9.09	91	53-138	
Bromomethane	10.0	10.4	104	33-150	
Chloroethane	10.0	8.45	84	36-142	
1,1-Dichloroethene	10.0	8.69	87	65-136	
Acetone	20.0	20.3	102	22-150	
Carbon disulfide	10.0	8.46	85	54-132	
Methylene Chloride	10.0	8.97	90	63-129	
trans-1,2-Dichloroethene	10.0	8.94	89	73-126	
Methyl tert-butyl ether	10.0	9.18	92	64-123	
1,1-Dichloroethane	10.0	8.89	89	73-126	
cis-1,2-Dichloroethene	10.0	9.08	91	70-120	
Bromochloromethane	10.0	9.66	97	70-127	
2-Butanone (MEK)	20.0	21.1	106	39-138	
Chloroform	10.0	8.67	87	72-127	
1,1,1-Trichloroethane	10.0	8.93	89	63-133	
Carbon tetrachloride	10.0	8.79	88	55-150	
Benzene	10.0	9.16	92	80-120	
1,2-Dichloroethane	10.0	8.78	88	68-132	
Trichloroethene	10.0	9.54	95	73-120	
1,2-Dichloropropane	10.0	8.97	90	76-124	
Bromodichloromethane	10.0	8.71	87	66-130	
cis-1,3-Dichloropropene	10.0	8.11	81	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	18.9	95	45-145	
Toluene	10.0	9.90	99	80-123	
trans-1,3-Dichloropropene	10.0	8.57	86	65-125	
1,1,2-Trichloroethane	10.0	9.66	97	77-127	
Tetrachloroethene	10.0	10.1	101	70-135	
2-Hexanone	20.0	18.2	91	25-132	
Dibromochloromethane	10.0	9.29	93	60-140	
1,2-Dibromoethane (EDB)	10.0	9.76	98	74-123	
Chlorobenzene	10.0	9.88	99	80-120	
1,1,1,2-Tetrachloroethane	10.0	9.79	98	63-140	
Ethylbenzene	10.0	10.1	101	72-126	
Xylenes, Total	20.0	20.2	101	76-128	
Styrene	10.0	10.4	104	71-127	
Bromoform	10.0	8.66	87	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.1	101	62-125	
Acrylonitrile	100	97.7	98	30-140	
1,4-Dioxane	200	247	123	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.: 180-48073-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 51002009.D

Lab ID: LCS 180-155711/9 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	11.0	110	50-139	
Vinyl chloride	10.0	10.1	101	53-138	
Bromomethane	10.0	10.7	107	33-150	
Chloroethane	10.0	8.90	89	36-142	
1,1-Dichloroethene	10.0	9.34	93	65-136	
Acetone	20.0	26.2	131	22-150	
Carbon disulfide	10.0	8.91	89	54-132	
Methylene Chloride	10.0	9.12	91	63-129	
trans-1,2-Dichloroethene	10.0	9.62	96	73-126	
Methyl tert-butyl ether	10.0	8.79	88	64-123	
1,1-Dichloroethane	10.0	9.07	91	73-126	
cis-1,2-Dichloroethene	10.0	8.95	90	70-120	
Bromochloromethane	10.0	9.97	100	70-127	
2-Butanone (MEK)	20.0	22.8	114	39-138	
Chloroform	10.0	9.38	94	72-127	
1,1,1-Trichloroethane	10.0	9.10	91	63-133	
Carbon tetrachloride	10.0	9.51	95	55-150	
Benzene	10.0	9.47	95	80-120	
1,2-Dichloroethane	10.0	8.80	88	68-132	
Trichloroethene	10.0	10.2	102	73-120	
1,2-Dichloropropane	10.0	9.34	93	76-124	
Bromodichloromethane	10.0	8.98	90	66-130	
cis-1,3-Dichloropropene	10.0	8.29	83	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	18.6	93	45-145	
Toluene	10.0	10.4	104	80-123	
trans-1,3-Dichloropropene	10.0	8.43	84	65-125	
1,1,2-Trichloroethane	10.0	10.2	102	77-127	
Tetrachloroethene	10.0	10.9	109	70-135	
2-Hexanone	20.0	19.6	98	25-132	
Dibromochloromethane	10.0	9.69	97	60-140	
1,2-Dibromoethane (EDB)	10.0	10.1	101	74-123	
Chlorobenzene	10.0	10.2	102	80-120	
1,1,1,2-Tetrachloroethane	10.0	10.5	105	63-140	
Ethylbenzene	10.0	10.3	103	72-126	
Xylenes, Total	20.0	21.0	105	76-128	
Styrene	10.0	11.0	110	71-127	
Bromoform	10.0	9.46	95	46-150	
1,1,2,2-Tetrachloroethane	10.0	9.98	100	62-125	
Acrylonitrile	100	97.3	97	30-140	
1,4-Dioxane	200	195 J	98	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.: 180-48073-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 51005007.D

Lab ID: LCS 180-155884/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	10.3	103	50-139	
Vinyl chloride	10.0	9.58	96	53-138	
Bromomethane	10.0	9.95	100	33-150	
Chloroethane	10.0	8.88	89	36-142	
1,1-Dichloroethene	10.0	8.87	89	65-136	
Acetone	20.0	17.7	88	22-150	
Carbon disulfide	10.0	8.59	86	54-132	
Methylene Chloride	10.0	8.64	86	63-129	
trans-1,2-Dichloroethene	10.0	8.88	89	73-126	
Methyl tert-butyl ether	10.0	8.16	82	64-123	
1,1-Dichloroethane	10.0	8.25	83	73-126	
cis-1,2-Dichloroethene	10.0	8.60	86	70-120	
Bromochloromethane	10.0	9.33	93	70-127	
2-Butanone (MEK)	20.0	17.9	89	39-138	
Chloroform	10.0	8.43	84	72-127	
1,1,1-Trichloroethane	10.0	8.58	86	63-133	
Carbon tetrachloride	10.0	9.51	95	55-150	
Benzene	10.0	8.97	90	80-120	
1,2-Dichloroethane	10.0	8.12	81	68-132	
Trichloroethene	10.0	9.53	95	73-120	
1,2-Dichloropropane	10.0	8.90	89	76-124	
Bromodichloromethane	10.0	8.82	88	66-130	
cis-1,3-Dichloropropene	10.0	8.07	81	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	16.0	80	45-145	
Toluene	10.0	9.74	97	80-123	
trans-1,3-Dichloropropene	10.0	8.30	83	65-125	
1,1,2-Trichloroethane	10.0	9.41	94	77-127	
Tetrachloroethene	10.0	10.3	103	70-135	
2-Hexanone	20.0	15.4	77	25-132	
Dibromochloromethane	10.0	9.52	95	60-140	
1,2-Dibromoethane (EDB)	10.0	9.34	93	74-123	
Chlorobenzene	10.0	9.61	96	80-120	
1,1,1,2-Tetrachloroethane	10.0	9.60	96	63-140	
Ethylbenzene	10.0	9.77	98	72-126	
Xylenes, Total	20.0	19.6	98	76-128	
Styrene	10.0	10.1	101	71-127	
Bromoform	10.0	9.47	95	46-150	
1,1,2,2-Tetrachloroethane	10.0	9.54	95	62-125	
Acrylonitrile	100	90.6	91	30-140	
1,4-Dioxane	200	213	107	10-160	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 51001010.D

Lab ID: 180-48073-1 MS Client ID: HD-MW-11-0/1-0 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Chloromethane	10.0	1.0 U	9.86	99	50-139	
Vinyl chloride	10.0	1.0 U	9.11	91	53-138	
Bromomethane	10.0	1.0 U	9.60	96	33-150	
Chloroethane	10.0	1.0 U	8.32	83	36-142	
1,1-Dichloroethene	10.0	1.0 U	9.29	93	65-136	
Acetone	20.0	5.0 U	20.0	100	22-150	
Carbon disulfide	10.0	1.0 U	8.73	87	54-132	
Methylene Chloride	10.0	1.0 U	8.69	87	63-129	
trans-1,2-Dichloroethene	10.0	1.0 U	8.85	89	73-126	
Methyl tert-butyl ether	10.0	1.0 U	8.48	85	64-123	
1,1-Dichloroethane	10.0	1.0 U	8.50	85	73-126	
cis-1,2-Dichloroethene	10.0	1.0 U	8.48	85	70-120	
Bromochloromethane	10.0	1.0 U	9.50	95	70-127	
2-Butanone (MEK)	20.0	5.0 U	20.5	103	39-138	
Chloroform	10.0	0.43 J	8.80	84	72-127	
1,1,1-Trichloroethane	10.0	1.0 U	8.75	87	63-133	
Carbon tetrachloride	10.0	1.0 U	8.77	88	55-150	
Benzene	10.0	1.0 U	8.85	89	80-120	
1,2-Dichloroethane	10.0	1.0 U	8.32	83	68-132	
Trichloroethene	10.0	2.6	11.2	86	73-120	
1,2-Dichloropropane	10.0	1.0 U	8.50	85	76-124	
Bromodichloromethane	10.0	1.0 U	8.13	81	66-130	
cis-1,3-Dichloropropene	10.0	1.0 U	7.57	76	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	5.0 U	18.1	91	45-145	
Toluene	10.0	1.0 U	9.86	99	80-123	
trans-1,3-Dichloropropene	10.0	1.0 U	8.65	86	65-125	
1,1,2-Trichloroethane	10.0	1.0 U	10.3	103	77-127	
Tetrachloroethene	10.0	0.37 J	10.7	104	70-135	
2-Hexanone	20.0	5.0 U	18.2	91	25-132	
Dibromochloromethane	10.0	1.0 U	9.69	97	60-140	
1,2-Dibromoethane (EDB)	10.0	1.0 U	10.0	100	74-123	
Chlorobenzene	10.0	1.0 U	10.1	101	80-120	
1,1,1,2-Tetrachloroethane	10.0	1.0 U	10.0	100	63-140	
Ethylbenzene	10.0	1.0 U	9.91	99	72-126	
Xylenes, Total	20.0	3.0 U	20.2	101	76-128	
Styrene	10.0	1.0 U	10.4	104	71-127	
Bromoform	10.0	1.0 U	8.93	89	46-150	
1,1,2,2-Tetrachloroethane	10.0	1.0 U	10.3	103	62-125	
Acrylonitrile	100	20 U	92.9	93	30-140	
1,4-Dioxane	200	200 U	201	100	10-160	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 51001011.D

Lab ID: 180-48073-1 MSD Client ID: HD-MW-11-0/1-0 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloromethane	10.0	9.99	100	1	35	50-139	
Vinyl chloride	10.0	9.11	91	0	35	53-138	
Bromomethane	10.0	10.3	103	7	35	33-150	
Chloroethane	10.0	8.62	86	4	35	36-142	
1,1-Dichloroethene	10.0	9.06	91	2	35	65-136	
Acetone	20.0	18.1	91	10	35	22-150	
Carbon disulfide	10.0	8.68	87	1	35	54-132	
Methylene Chloride	10.0	8.82	88	2	35	63-129	
trans-1,2-Dichloroethene	10.0	8.74	87	1	35	73-126	
Methyl tert-butyl ether	10.0	8.71	87	3	35	64-123	
1,1-Dichloroethane	10.0	8.60	86	1	35	73-126	
cis-1,2-Dichloroethene	10.0	8.88	89	5	35	70-120	
Bromochloromethane	10.0	9.38	94	1	35	70-127	
2-Butanone (MEK)	20.0	20.8	104	1	35	39-138	
Chloroform	10.0	8.81	84	0	35	72-127	
1,1,1-Trichloroethane	10.0	8.81	88	1	35	63-133	
Carbon tetrachloride	10.0	8.84	88	1	35	55-150	
Benzene	10.0	8.90	89	1	32	80-120	
1,2-Dichloroethane	10.0	8.26	83	1	32	68-132	
Trichloroethene	10.0	11.5	89	3	35	73-120	
1,2-Dichloropropane	10.0	8.65	87	2	34	76-124	
Bromodichloromethane	10.0	8.44	84	4	35	66-130	
cis-1,3-Dichloropropene	10.0	7.97	80	5	35	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	17.8	89	2	35	45-145	
Toluene	10.0	9.65	96	2	35	80-123	
trans-1,3-Dichloropropene	10.0	8.15	82	6	35	65-125	
1,1,2-Trichloroethane	10.0	9.47	95	8	35	77-127	
Tetrachloroethene	10.0	10.4	100	3	35	70-135	
2-Hexanone	20.0	17.9	90	2	35	25-132	
Dibromochloromethane	10.0	9.23	92	5	35	60-140	
1,2-Dibromoethane (EDB)	10.0	9.47	95	5	35	74-123	
Chlorobenzene	10.0	9.68	97	4	29	80-120	
1,1,1,2-Tetrachloroethane	10.0	9.69	97	3	34	63-140	
Ethylbenzene	10.0	9.72	97	2	33	72-126	
Xylenes, Total	20.0	19.8	99	2	32	76-128	
Styrene	10.0	10.3	103	2	34	71-127	
Bromoform	10.0	8.43	84	6	35	46-150	
1,1,2,2-Tetrachloroethane	10.0	9.86	99	5	35	62-125	
Acrylonitrile	100	93.8	94	1	35	30-140	
1,4-Dioxane	200	200	100	0	35	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.: 180-48073-1

SDG No.:

Lab File ID: 51001007.D Lab Sample ID: MB 180-155577/7

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

Instrument ID: CHHP5 Date Analyzed: 10/01/2015 14:45

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
HD-MW-11-0/1-0	180-48073-1	51001008.D	10/01/2015 15:20
HD-QC7-0/1-2	180-48073-7	51001009.D	10/01/2015 15:46
HD-MW-11-0/1-0 MS	180-48073-1 MS	51001010.D	10/01/2015 16:11
HD-MW-11-0/1-0 MSD	180-48073-1 MSD	51001011.D	10/01/2015 16:35
	LCS 180-155577/12	51001012.D	10/01/2015 16:59
HD-MW-16D-0/1-0	180-48073-3	51001018.D	10/01/2015 19:24
HD-MW-94-0/1-0 DL	180-48073-5 DL	51001020.D	10/01/2015 20:12

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab File ID: 51002006.D Lab Sample ID: MB 180-155711/6

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

Instrument ID: CHHP5 Date Analyzed: 10/02/2015 13:42

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 180-155711/9	51002009.D	10/02/2015 15:09
HD-MW-16S-0/1-0	180-48073-2	51002028.D	10/02/2015 22:46
HD-MW-57-0/1-0	180-48073-6	51002029.D	10/02/2015 23:10
HD-MW-49S-0/1-0	180-48073-4	51002030.D	10/02/2015 23:34

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab File ID: 51005004.D Lab Sample ID: MB 180-155884/4

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

Instrument ID: CHHP5 Date Analyzed: 10/05/2015 11:57

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 180-155884/7	51005007.D	10/05/2015 13:34
HD-MW-94-0/1-0	180-48073-5	51005022.D	10/05/2015 19:36

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab File ID: 50826007.D BFB Injection Date: 08/26/2015

Instrument ID: CHHP5 BFB Injection Time: 14:01

Analysis Batch No.: 151868

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.5	
75	30.0 - 60.0 % of mass 95	49.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	50.0 - 120.00 % of mass 95	77.9	
175	5.0 - 9.0 % of mass 174	6.1	(7.9) 1
176	95.0 - 101.0 % of mass 174	75.2	(96.6) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-151868/6	50826006.D	08/26/2015	15:04
	IC 180-151868/8	50826008.D	08/26/2015	15:28
	ICIS 180-151868/9	50826009.D	08/26/2015	15:52
	IC 180-151868/10	50826010.D	08/26/2015	16:16
	IC 180-151868/11	50826011.D	08/26/2015	16:40
	IC 180-151868/12	50826012.D	08/26/2015	17:04
	IC 180-151868/13	50826013.D	08/26/2015	17:28
	IC 180-151868/14	50826014.D	08/26/2015	17:52

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab File ID: 51001006.D BFB Injection Date: 10/01/2015

Instrument ID: CHHP5 BFB Injection Time: 13:11

Analysis Batch No.: 155577

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.5	
75	30.0 - 60.0 % of mass 95	47.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	50.0 - 120.00 % of mass 95	86.0	
175	5.0 - 9.0 % of mass 174	6.2	(7.2) 1
176	95.0 - 101.0 % of mass 174	82.5	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.5	(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
	CCVIS 180-155577/2	51001002.D	10/01/2015	13:46
	MB 180-155577/7	51001007.D	10/01/2015	14:45
HD-MW-11-0/1-0	180-48073-1	51001008.D	10/01/2015	15:20
HD-QC7-0/1-2	180-48073-7	51001009.D	10/01/2015	15:46
HD-MW-11-0/1-0 MS	180-48073-1 MS	51001010.D	10/01/2015	16:11
HD-MW-11-0/1-0 MSD	180-48073-1 MSD	51001011.D	10/01/2015	16:35
	LCS 180-155577/12	51001012.D	10/01/2015	16:59
HD-MW-16D-0/1-0	180-48073-3	51001018.D	10/01/2015	19:24
HD-MW-94-0/1-0 DL	180-48073-5 DL	51001020.D	10/01/2015	20:12

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab File ID: 51002005.D BFB Injection Date: 10/02/2015

Instrument ID: CHHP5 BFB Injection Time: 11:57

Analysis Batch No.: 155711

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.7	
75	30.0 - 60.0 % of mass 95	47.6	
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	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	6.6	(8.2) 1
176	95.0 - 101.0 % of mass 174	77.0	(96.2) 1
177	5.0 - 9.0 % of mass 176	5.4	(7.0) 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 180-155711/2	51002002.D	10/02/2015	12:37
	MB 180-155711/6	51002006.D	10/02/2015	13:42
	LCS 180-155711/9	51002009.D	10/02/2015	15:09
HD-MW-16S-0/1-0	180-48073-2	51002028.D	10/02/2015	22:46
HD-MW-57-0/1-0	180-48073-6	51002029.D	10/02/2015	23:10
HD-MW-49S-0/1-0	180-48073-4	51002030.D	10/02/2015	23:34

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab File ID: 51005001.D BFB Injection Date: 10/05/2015

Instrument ID: CHHP5 BFB Injection Time: 10:17

Analysis Batch No.: 155884

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.1	
75	30.0 - 60.0 % of mass 95	47.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.0	
173	Less than 2.0 % of mass 174	0.8	(0.9) 1
174	50.0 - 120.00 % of mass 95	83.8	
175	5.0 - 9.0 % of mass 174	6.5	(7.8) 1
176	95.0 - 101.0 % of mass 174	79.8	(95.3) 1
177	5.0 - 9.0 % of mass 176	5.6	(7.0) 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 180-155884/2	51005002.D	10/05/2015	10:56
	MB 180-155884/4	51005004.D	10/05/2015	11:57
	LCS 180-155884/7	51005007.D	10/05/2015	13:34
HD-MW-94-0/1-0	180-48073-5	51005022.D	10/05/2015	19:36

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Sample No.: CCVIS 180-155577/2 Date Analyzed: 10/01/2015 13:46

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51001002.D Heated Purge: (Y/N) N

Calibration ID: 25113

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		102757	4.28	357732	7.29	84581	10.39
UPPER LIMIT		205514	4.78	715464	7.79	169162	10.89
LOWER LIMIT		51379	3.78	178866	6.79	42291	9.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155577/7		120179	4.27	325318	7.29	84064	10.39
180-48073-1	HD-MW-11-0/1-0	112407	4.26	314256	7.29	79918	10.39
180-48073-7	HD-QC7-0/1-2	116099	4.27	311077	7.29	80202	10.39
180-48073-1 MS	HD-MW-11-0/1-0 MS	129650	4.28	367328	7.29	83492	10.39
180-48073-1 MSD	HD-MW-11-0/1-0 MSD	123948	4.28	377317	7.29	90807	10.39
LCS 180-155577/12		125325	4.28	367204	7.29	87820	10.39
180-48073-3	HD-MW-16D-0/1-0	108133	4.26	299976	7.29	71377	10.39
180-48073-5 DL	HD-MW-94-0/1-0 DL	106028	4.26	298579	7.29	75266	10.39

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.: 180-48073-1

SDG No.:

Sample No.: CCVIS 180-155577/2 Date Analyzed: 10/01/2015 13:46

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51001002.D Heated Purge: (Y/N) N

Calibration ID: 25113

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		134719	12.73				
UPPER LIMIT		269438	13.23				
LOWER LIMIT		67360	12.23				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155577/7		117882	12.73				
180-48073-1	HD-MW-11-0/1-0	115795	12.73				
180-48073-7	HD-QC7-0/1-2	110888	12.73				
180-48073-1 MS	HD-MW-11-0/1-0 MS	133336	12.73				
180-48073-1 MSD	HD-MW-11-0/1-0 MSD	139612	12.73				
LCS 180-155577/12		136912	12.73				
180-48073-3	HD-MW-16D-0/1-0	105706	12.73				
180-48073-5 DL	HD-MW-94-0/1-0 DL	104354	12.73				

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.: 180-48073-1

SDG No.:

Sample No.: CCVIS 180-155711/2 Date Analyzed: 10/02/2015 12:37

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51002002.D Heated Purge: (Y/N) N

Calibration ID: 25113

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		111674	4.27	362708	7.29	84057	10.39
UPPER LIMIT		223348	4.77	725416	7.79	168114	10.89
LOWER LIMIT		55837	3.77	181354	6.79	42029	9.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155711/6		119676	4.27	325212	7.29	85059	10.38
LCS 180-155711/9		114288	4.28	353245	7.29	83323	10.39
180-48073-2	HD-MW-16S-0/1-0	105351	4.26	299631	7.29	74673	10.39
180-48073-6	HD-MW-57-0/1-0	117206	4.26	289886	7.29	74195	10.39
180-48073-4	HD-MW-49S-0/1-0	109818	4.26	287938	7.29	72733	10.39

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.: 180-48073-1

SDG No.:

Sample No.: CCVIS 180-155711/2 Date Analyzed: 10/02/2015 12:37

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51002002.D Heated Purge: (Y/N) N

Calibration ID: 25113

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		131410	12.73				
UPPER LIMIT		262820	13.23				
LOWER LIMIT		65705	12.23				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155711/6		118383	12.73				
LCS 180-155711/9		130360	12.73				
180-48073-2	HD-MW-16S-0/1-0	103257	12.73				
180-48073-6	HD-MW-57-0/1-0	106510	12.73				
180-48073-4	HD-MW-49S-0/1-0	100825	12.73				

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.: 180-48073-1

SDG No.:

Sample No.: CCVIS 180-155884/2 Date Analyzed: 10/05/2015 10:56

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51005002.D Heated Purge: (Y/N) N

Calibration ID: 25113

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		125348	4.28	389208	7.29	92325	10.39
UPPER LIMIT		250696	4.78	778416	7.79	184650	10.89
LOWER LIMIT		62674	3.78	194604	6.79	46163	9.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155884/4		159358	4.27	345349	7.29	89221	10.39
LCS 180-155884/7		119053	4.28	418221	7.29	101020	10.39
180-48073-5	HD-MW-94-0/1-0	130910	4.27	330817	7.30	84710	10.39

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.: 180-48073-1

SDG No.:

Sample No.: CCVIS 180-155884/2 Date Analyzed: 10/05/2015 10:56

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51005002.D Heated Purge: (Y/N) N

Calibration ID: 25113

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		138714	12.73				
UPPER LIMIT		277428	13.23				
LOWER LIMIT		69357	12.23				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155884/4		130925	12.74				
LCS 180-155884/7		143991	12.73				
180-48073-5	HD-MW-94-0/1-0	116735	12.73				

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.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-11-0/1-0 | Lab Sample ID: 180-48073-1

Matrix: Water | Lab File ID: 51001008.D

Analysis Method: 8260C | Date Collected: 09/23/2015 14:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 15:20

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.: 155577 | 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	0.43	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	2.6		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 ^c	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U ^c	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	0.37	J	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.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-11-0/1-0 | Lab Sample ID: 180-48073-1

Matrix: Water | Lab File ID: 51001008.D

Analysis Method: 8260C | Date Collected: 09/23/2015 14:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 15:20

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.: 155577 | 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)	98		64-135
2037-26-5	Toluene-d8 (Surr)	97		71-118
460-00-4	4-Bromofluorobenzene (Surr)	87		70-118
1868-53-7	Dibromofluoromethane (Surr)	101		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001008.D
Lims ID: 180-48073-A-1 Lab Sample ID: 180-48073-1
Client ID: HD-MW-11-0/1-0
Sample Type: Client
Inject. Date: 01-Oct-2015 15:20:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48073-A-1
Misc. Info.: 180-0008778-008
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 01-Oct-2015 17:04:25 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: fergusond Date: 01-Oct-2015 17:04:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.262	4.278	-0.016	0	112407	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.289	0.003	98	314256	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.386	0.002	87	79918	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.728	0.002	96	115795	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.562	6.559	0.003	92	78055	50.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.936	-0.003	0	104191	49.2	
$ 7 Toluene-d8 (Surr)	98	8.934	8.938	-0.004	94	297631	48.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.568	11.572	-0.004	90	101068	43.5	
11 Dichlorodifluoromethane	85		1.613				ND	
12 Chloromethane	50	1.786	1.759	0.027	36	1160	0.4450	
13 Vinyl chloride	62		1.905				ND	
14 Butadiene	39		1.936				ND	
15 Bromomethane	94		2.234				ND	
16 Chloroethane	64		2.386				ND	
17 Dichlorofluoromethane	67		2.666				ND	
18 Trichlorofluoromethane	101		2.702				ND	
19 Ethanol	45		2.957				ND	
20 Ethyl ether	59		3.049				ND	
21 Acrolein	56		3.232				ND	
22 1,1-Dichloroethene	96		3.347				ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.414				ND	
24 Acetone	43		3.438				ND	
25 Iodomethane	142		3.542				ND	
26 Carbon disulfide	76		3.633				ND	
27 Isopropyl alcohol	45		3.706				ND	
29 Acetonitrile	40		3.870				ND	
28 3-Chloro-1-propene	76		3.925				ND	
30 Methyl acetate	43		3.937				ND	
31 Methylene Chloride	84		4.138				ND	
32 2-Methyl-2-propanol	59		4.406				ND	
33 Acrylonitrile	53		4.521				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.564				ND	
35 Methyl tert-butyl ether	73		4.576				ND	
36 Hexane	57	4.992	4.990	0.002	38	923	0.2893	
37 1,1-Dichloroethane	63		5.196				ND	
38 Vinyl acetate	43		5.245				ND	
39 2-Chloro-1,3-butadiene	53		5.299				ND	
41 Isopropyl ether	45		5.299				ND	
40 Isopropyl ether TIC	45		5.409				ND	
42 Tert-butyl ethyl ether	59		5.780				ND	
44 2,2-Dichloropropane	77		5.945				ND	
45 cis-1,2-Dichloroethene	96		5.951				ND	
46 2-Butanone (MEK)	43		5.957				ND	
43 Tert-butyl ethyl ether (TI	59		5.961				ND	
48 Ethyl acetate	43		6.036				ND	
47 Propionitrile	54		6.036				ND	
50 Methacrylonitrile	41		6.212				ND	
49 Chlorobromomethane	128		6.231				ND	
51 Tetrahydrofuran	42		6.249				ND	
52 Chloroform	83	6.385	6.383	0.002	94	6919	2.14	
53 1,1,1-Trichloroethane	97		6.541				ND	
54 Cyclohexane	56		6.614				ND	
56 Carbon tetrachloride	117		6.711				ND	
55 1,1-Dichloropropene	75		6.730				ND	
57 Isobutyl alcohol	41		6.924				ND	
58 Benzene	78		6.942				ND	
59 1,2-Dichloroethane	62		7.022				ND	
61 Tert-amyl methyl ether	73		7.125				ND	
60 Tert-amyl methyl ether (TI	73		7.262				ND	
62 n-Heptane	43		7.307				ND	
63 n-Butanol	56		7.629				ND	
64 Trichloroethene	130	7.681	7.679	0.002	92	25094	13.2	
65 Ethyl acrylate	55		7.800				ND	
66 Methylcyclohexane	83		7.916				ND	
67 1,2-Dichloropropane	63		7.952				ND	
70 1,4-Dioxane	88		8.025				ND	
69 Methyl methacrylate	69		8.031				ND	
68 Dibromomethane	93		8.031				ND	
71 Dichlorobromomethane	83		8.232				ND	
72 2-Nitropropane	41		8.451				ND	
73 2-Chloroethyl vinyl ether	63		8.526				ND	
74 cis-1,3-Dichloropropene	75		8.676				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
76 Toluene	91		9.005				ND	
77 trans-1,3-Dichloropropene	75		9.254				ND	
78 Ethyl methacrylate	69		9.309				ND	
79 1,1,2-Trichloroethane	97		9.449				ND	
80 Tetrachloroethene	164	9.518	9.516	0.002	94	2834	1.85	
81 1,3-Dichloropropane	76		9.601				ND	
82 2-Hexanone	43		9.656				ND	
83 n-Butyl acetate	43		9.783				ND	
84 Chlorodibromomethane	129		9.814				ND	
85 Ethylene Dibromide	107		9.929				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.392				ND	
87 Chlorobenzene	112		10.416				ND	
88 4-Chlorobenzotrifluoride	180		10.477				ND	
89 1,1,1,2-Tetrachloroethane	131		10.507				ND	
90 Ethylbenzene	106		10.513				ND	
91 m-Xylene & p-Xylene	106		10.647				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.049				ND	
94 Bromoform	173		11.231				ND	
95 Cyclohexanol	57		11.245				ND	
96 2-Chlorobenzotrifluoride	180		11.298				ND	
97 Isopropylbenzene	105		11.396				ND	
98 Cyclohexanone	55		11.480				ND	
99 1,1,2,2-Tetrachloroethane	83		11.706				ND	
100 Bromobenzene	156		11.712				ND	
102 trans-1,4-Dichloro-2-buten	53		11.742				ND	
101 1,2,3-Trichloropropane	110		11.761				ND	
103 N-Propylbenzene	120		11.809				ND	
104 2-Chlorotoluene	126		11.900				ND	
105 3-Chlorotoluene	126		11.961				ND	
106 1,3,5-Trimethylbenzene	105		11.998				ND	
107 4-Chlorotoluene	126		12.022				ND	
108 tert-Butylbenzene	119		12.308				ND	
109 Pentachloroethane	167		12.338				ND	
110 1,2,4-Trimethylbenzene	105		12.369				ND	
111 1,2-dichloro-4-(trifluorom	214		12.411				ND	
112 sec-Butylbenzene	105		12.533				ND	
113 1,3-Dichlorobenzene	146		12.649				ND	
114 4-Isopropyltoluene	119		12.691				ND	
115 1,4-Dichlorobenzene	146		12.752				ND	
117 1,2,3-Trimethylbenzene	105		12.776				ND	
116 2,4-Dichloro-1-(triflourom	214		12.776				ND	
118 2,5-Dichlorobenzotrifluori	214		12.825				ND	
119 Benzyl chloride	91		12.867				ND	
120 n-Butylbenzene	91		13.099				ND	
121 1,2-Dichlorobenzene	146		13.111				ND	
122 1,2-Dibromo-3-Chloropropan	75		13.902				ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.042				ND	
124 1,3,5-Trichlorobenzene	180		14.087				ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.462				ND	
126 1,2,4-Trichlorobenzene	180		14.723				ND	
127 Hexachlorobutadiene	225		14.869				ND	
128 Naphthalene	128		14.991				ND	
129 1,2,3-Trichlorobenzene	180		15.216				ND	
131 2,4,5-Trichlorotoluene	159		15.995				ND	
130 2,3,6-Trichlorotoluene	159		16.086				ND	
132 2-Methylnaphthalene	142		16.134				ND	
147 2,4-Dichlorotoluene	1		0.000				ND	
149 3,4-Dichlorotoluene	1		0.000				ND	
150 2,6-Dichlorotoluene	1		0.000				ND	
152 Formaldehyde TIC	1		0.000				ND	
148 2,3-Dichlorotoluene	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
146 2,5-Dichlorotoluene	1		0.000				ND	
151 Isooctane	57		0.000				ND	
S 133 Xylenes, Total	106		1.000				ND	
S 134 1,2-Dichloroethene, Total	96		1.000				ND	
S 135 1,3-Dichloropropene, Total	1		0.000				ND	
T 136 Mesityl oxide TIC	83		0.000				ND	
T 138 Methyl n-amyl ketone TIC	43		0.000				ND	
T 137 Tetrahydrofuran TIC	42		6.253				ND	
T 153 1,2 Epoxybutane TIC	42		6.253				ND	

Reagents:

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

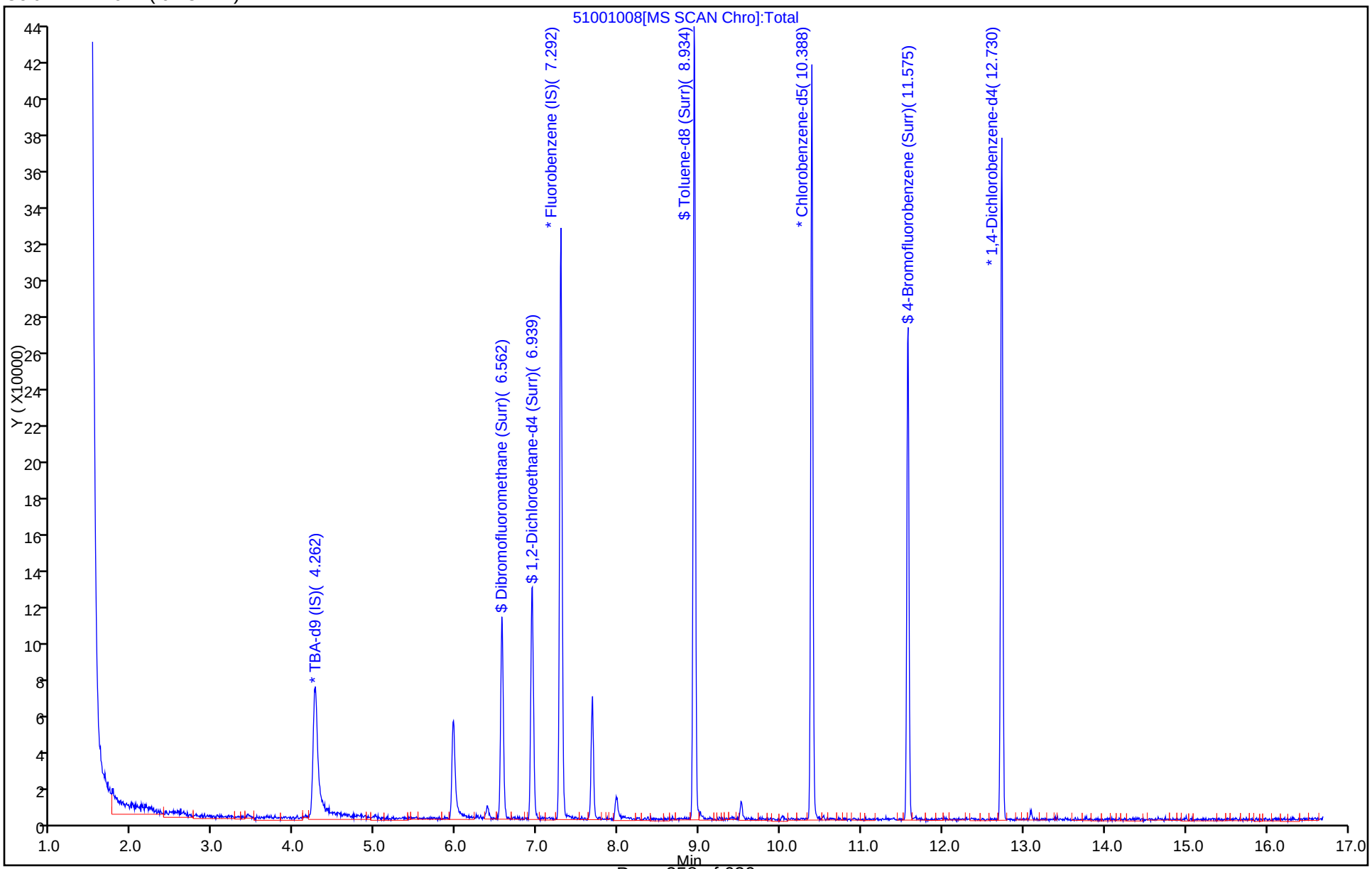
Report Date: 01-Oct-2015 17:04:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001008.D

Injection Date:	01-Oct-2015 15:20:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48073-A-1	Lab Sample ID:	180-48073-1	Worklist Smp#:	8
Client ID:	HD-MW-11-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)

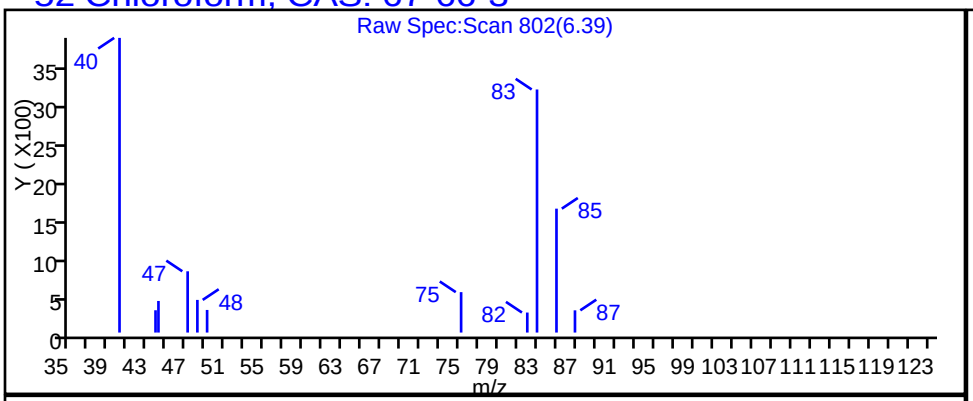


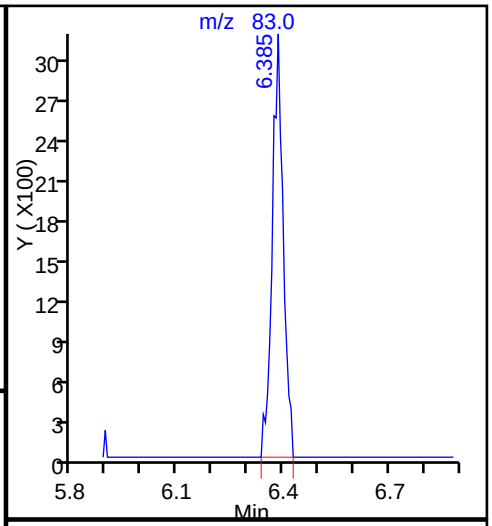
Report Date: 01-Oct-2015 17:04:26 Chrom Revision: 2.2 08-Sep-2015 13:41:46

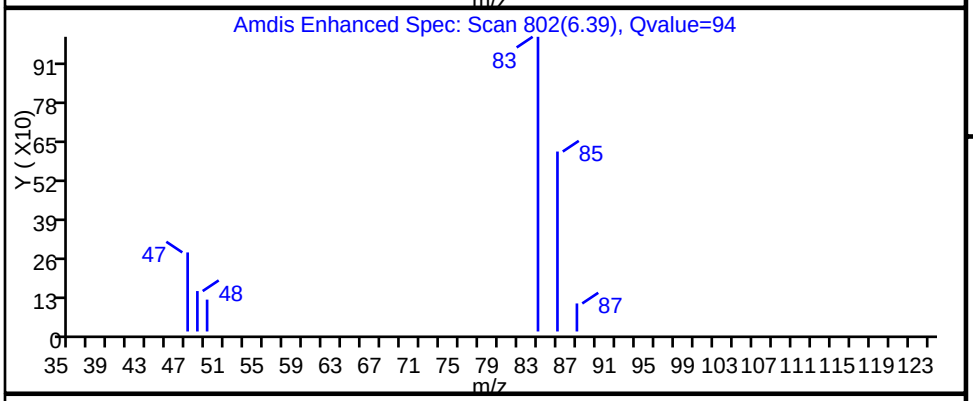
TestAmerica Pittsburgh

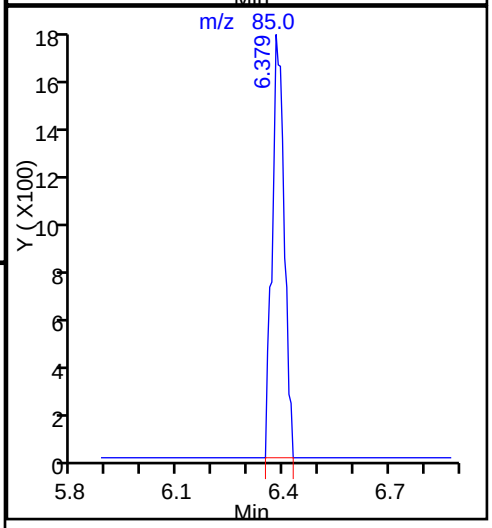
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001008.D				
Injection Date:	01-Oct-2015 15:20:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-A-1	Lab Sample ID:	180-48073-1		
Client ID:	HD-MW-11-0/1-0				
Operator ID:	001562	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

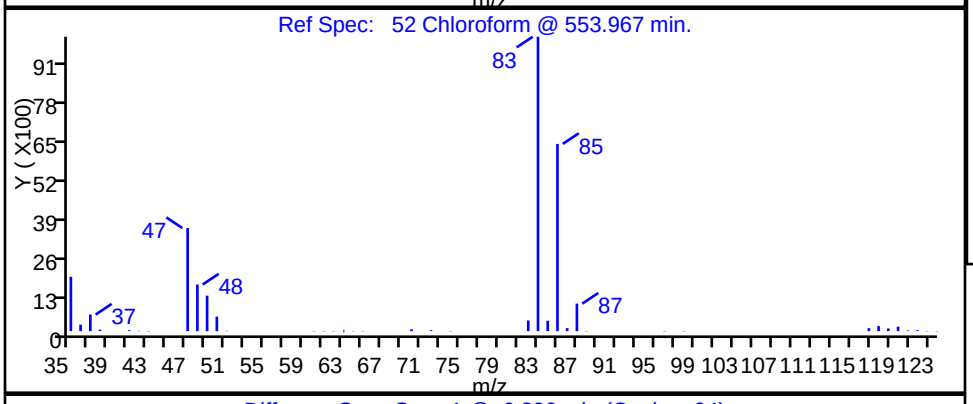
52 Chloroform, CAS: 67-66-3

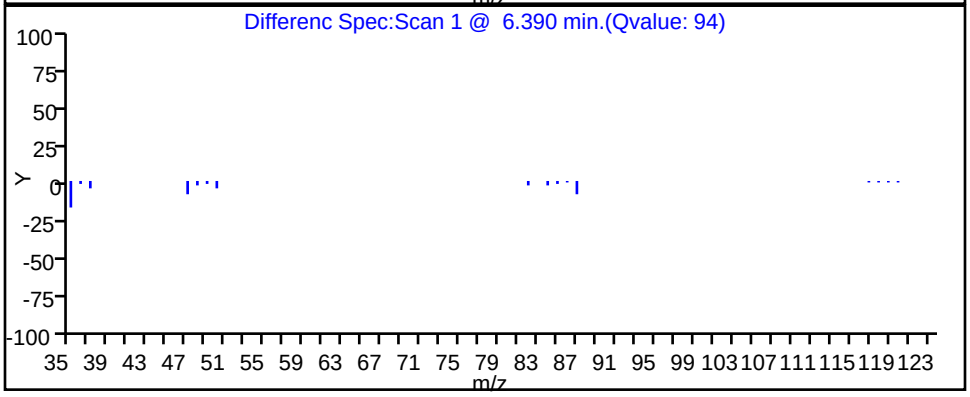










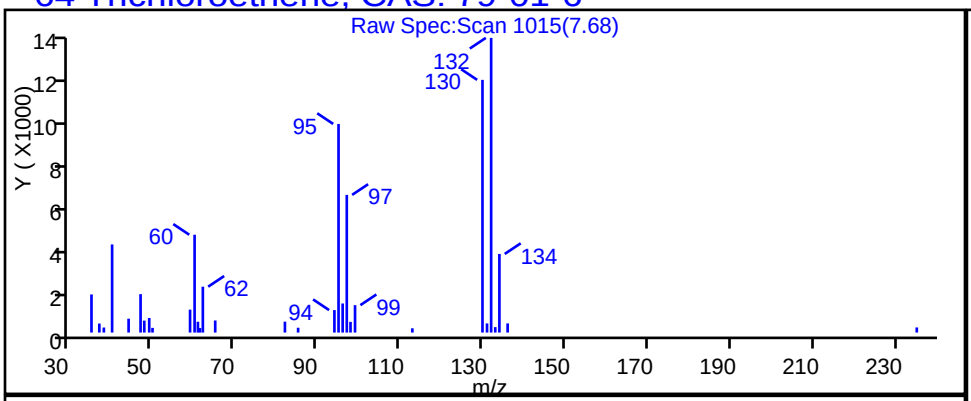


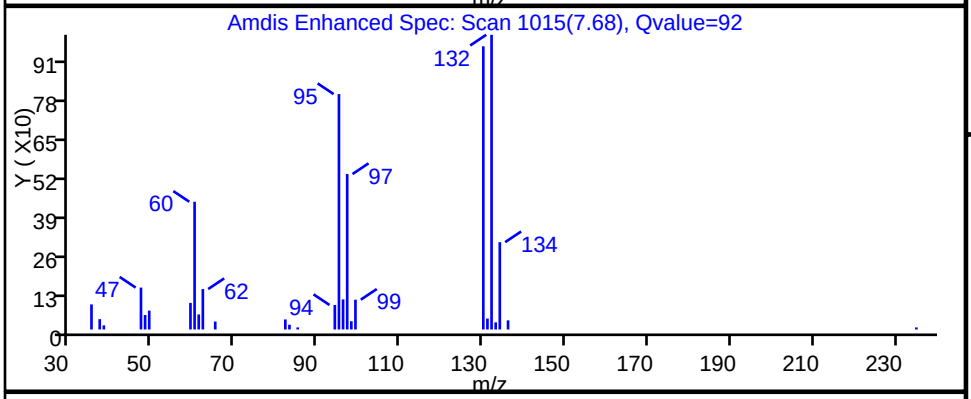
Report Date: 01-Oct-2015 17:04:26 Chrom Revision: 2.2 08-Sep-2015 13:41:46

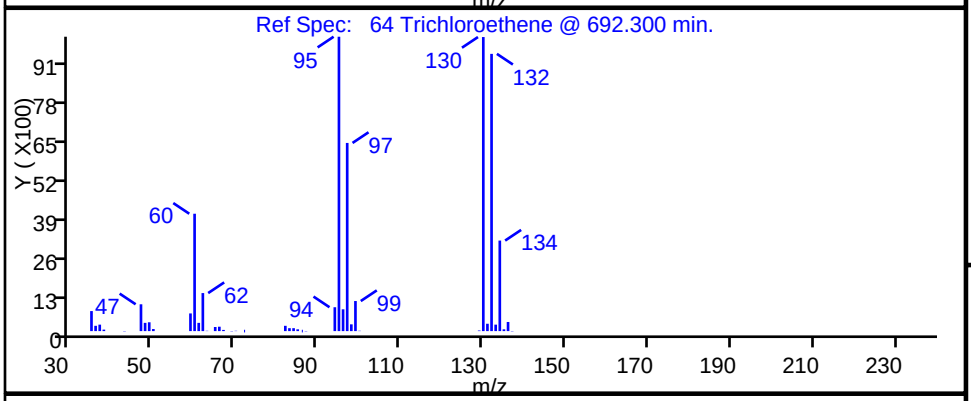
TestAmerica Pittsburgh

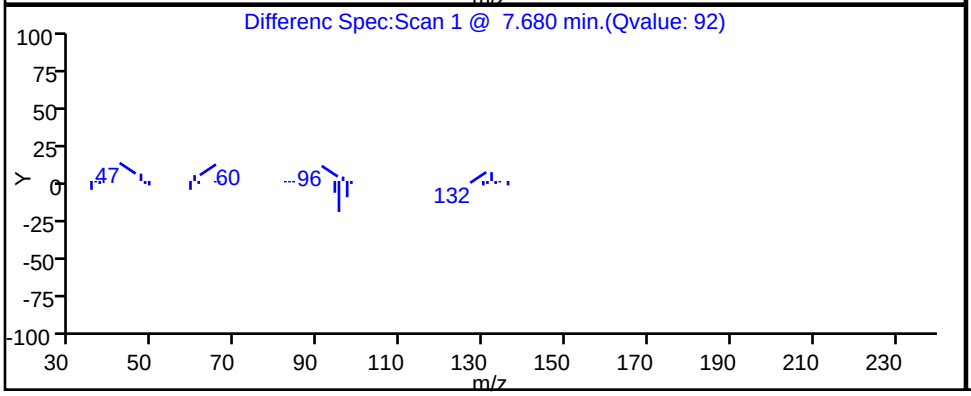
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001008.D		
Injection Date:	01-Oct-2015 15:20:30	Instrument ID:	CHHP5
Lims ID:	180-48073-A-1	Lab Sample ID:	180-48073-1
Client ID:	HD-MW-11-0/1-0		
Operator ID:	001562	ALS Bottle#:	5 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

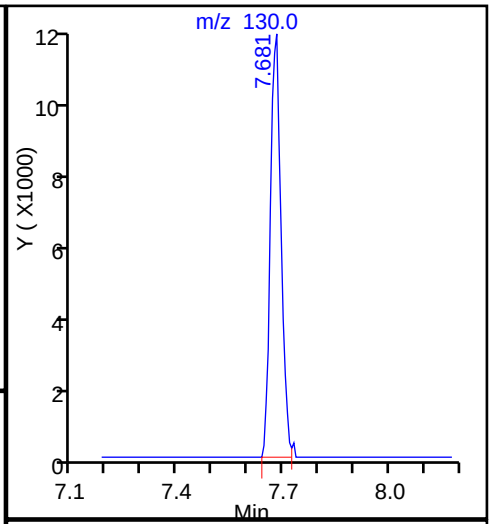
64 Trichloroethene, CAS: 79-01-6

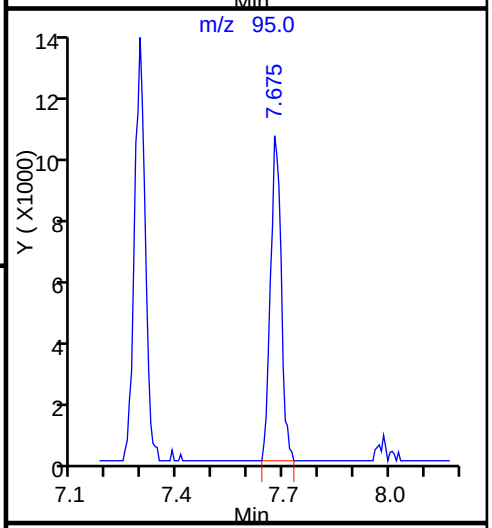


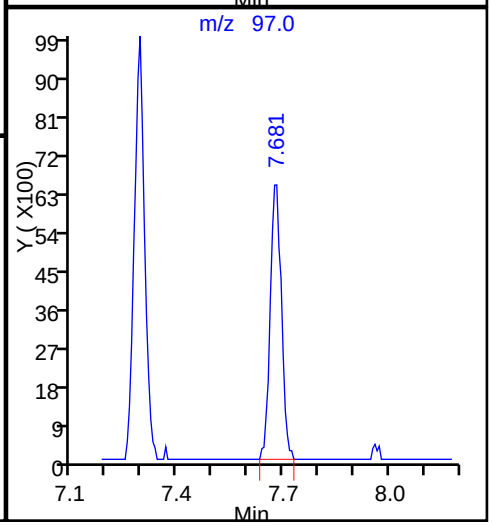












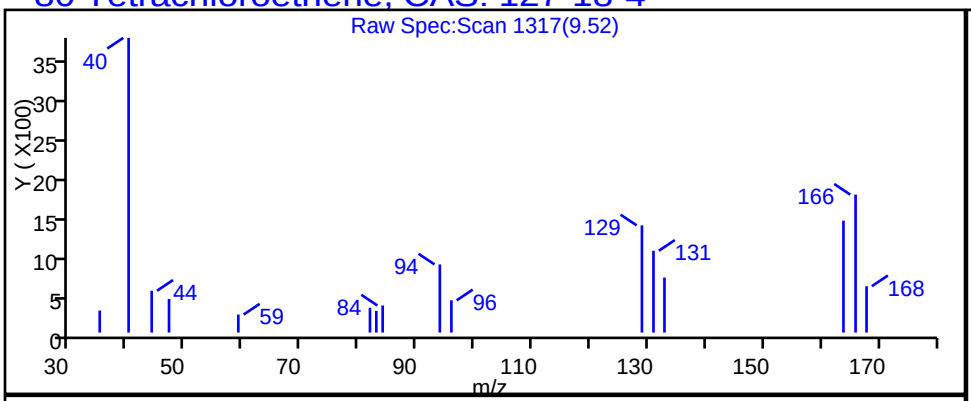
Report Date: 01-Oct-2015 17:04:26 Chrom Revision: 2.2 08-Sep-2015 13:41:46

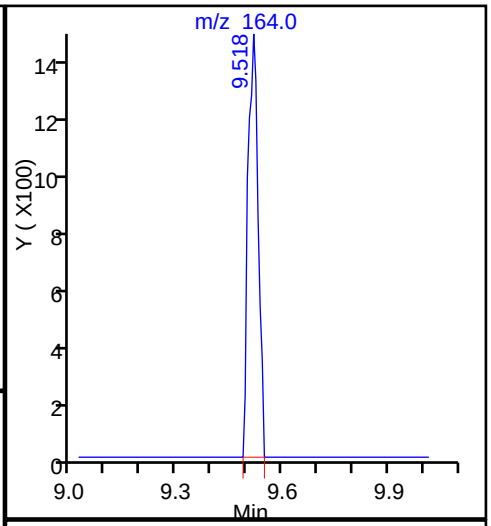
TestAmerica Pittsburgh

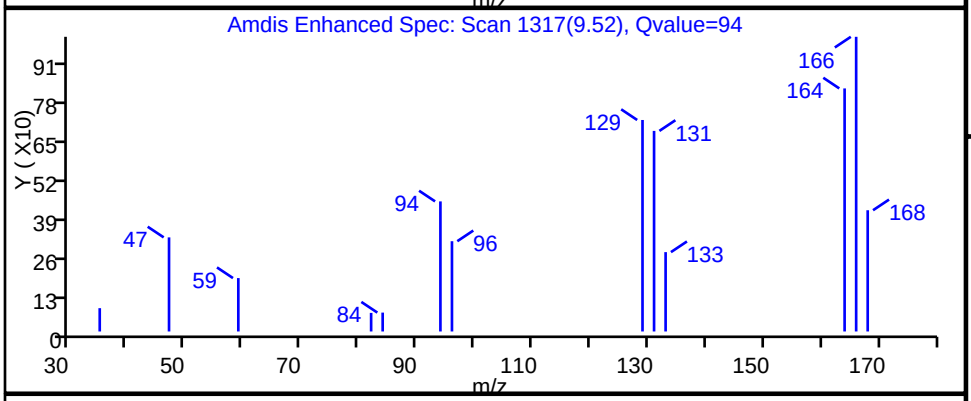
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001008.D

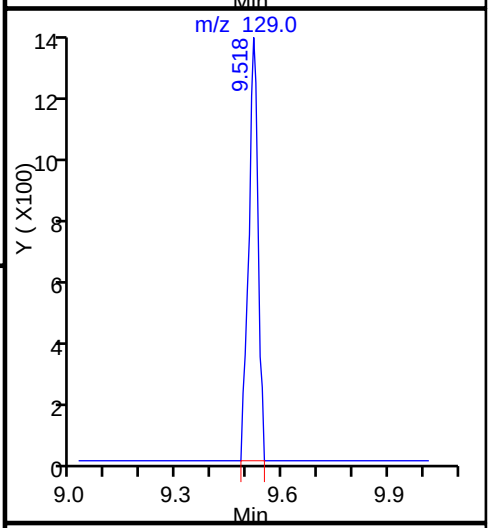
Injection Date:	01-Oct-2015 15:20:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-A-1	Lab Sample ID:	180-48073-1		
Client ID:	HD-MW-11-0/1-0				
Operator ID:	001562	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

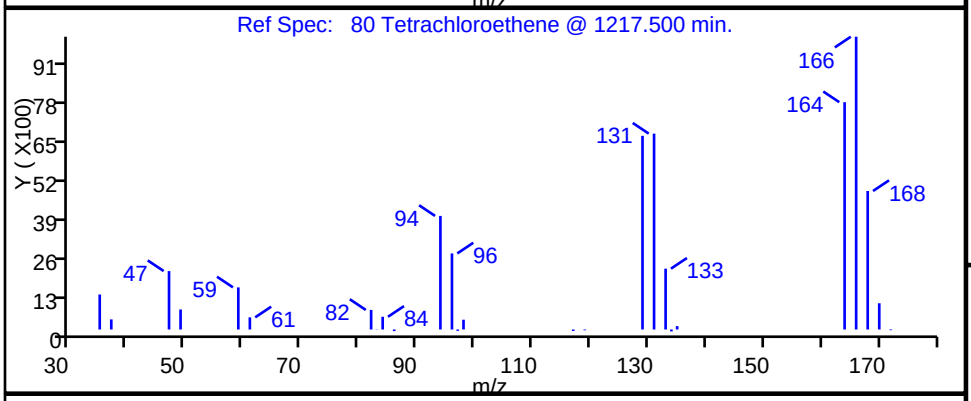
80 Tetrachloroethene, CAS: 127-18-4

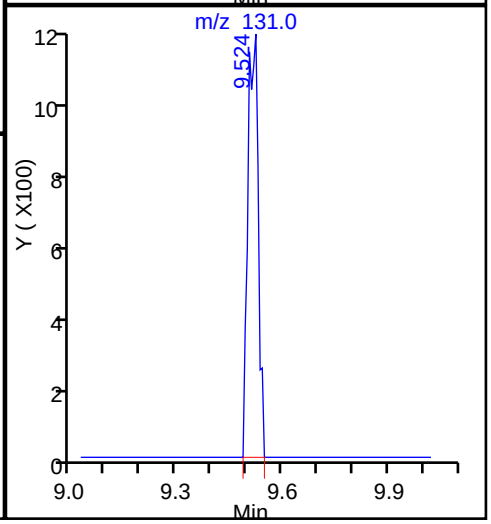


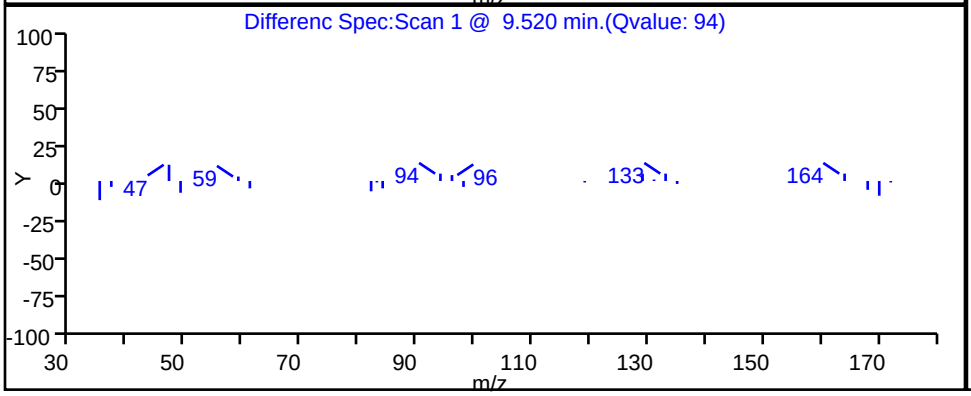












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-16S-0/1-0 | Lab Sample ID: 180-48073-2

Matrix: Water | Lab File ID: 51002028.D

Analysis Method: 8260C | Date Collected: 09/23/2015 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2015 22:46

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.: 155711 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.28	J	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	42		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	5.6		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 ^c	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	6.7		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.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-16S-0/1-0 | Lab Sample ID: 180-48073-2

Matrix: Water | Lab File ID: 51002028.D

Analysis Method: 8260C | Date Collected: 09/23/2015 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2015 22:46

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.: 155711 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U ^c	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)	96	^c	64-135
2037-26-5	Toluene-d8 (Surr)	97		71-118
460-00-4	4-Bromofluorobenzene (Surr)	85		70-118
1868-53-7	Dibromofluoromethane (Surr)	104		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002028.D
Lims ID: 180-48073-C-2 Lab Sample ID: 180-48073-2
Client ID: HD-MW-16S-0/1-0
Sample Type: Client
Inject. Date: 02-Oct-2015 22:46:30 ALS Bottle#: 26 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48073-C-2
Misc. Info.: 180-0008799-028
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Oct-2015 08:40:44 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: fergusond Date: 03-Oct-2015 08:40:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.255	4.268	-0.013	0	105351	1000.0	
* 2 Fluorobenzene (IS)	96	7.291	7.285	0.006	98	299631	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.388	-0.001	87	74673	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.729	12.730	-0.001	96	103257	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.567	6.561	0.006	93	76471	52.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.938	6.932	0.006	0	96553	47.8	
$ 7 Toluene-d8 (Surr)	98	8.939	8.934	0.005	94	279914	48.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.568	0.005	89	92029	42.3	
12 Chloromethane	50	1.761	1.767	-0.006	93	3435	1.38	
13 Vinyl chloride	62		1.907				ND	
15 Bromomethane	94		2.236				ND	
16 Chloroethane	64		2.388				ND	
22 1,1-Dichloroethene	96		3.349				ND	
24 Acetone	43		3.440				ND	
26 Carbon disulfide	76		3.629				ND	
31 Methylene Chloride	84		4.128				ND	
33 Acrylonitrile	53		4.517				ND	
34 trans-1,2-Dichloroethene	96		4.560				ND	
35 Methyl tert-butyl ether	73		4.572				ND	
37 1,1-Dichloroethane	63		5.198				ND	
45 cis-1,2-Dichloroethene	96	5.952	5.947	0.005	82	407782	210.6	
46 2-Butanone (MEK)	43		5.953				ND	
49 Chlorobromomethane	128		6.233				ND	
52 Chloroform	83		6.379				ND	
53 1,1,1-Trichloroethane	97		6.537				ND	
56 Carbon tetrachloride	117		6.713				ND	
58 Benzene	78		6.938				ND	
59 1,2-Dichloroethane	62		7.011				ND	
64 Trichloroethene	130	7.680	7.674	0.006	97	50578	28.0	
67 1,2-Dichloropropane	63		7.948				ND	
70 1,4-Dioxane	88		8.033				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.228				ND	
74 cis-1,3-Dichloropropene	75		8.672				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.824				ND	
76 Toluene	91		9.001				ND	
77 trans-1,3-Dichloropropene	75		9.250				ND	
79 1,1,2-Trichloroethane	97		9.445				ND	
80 Tetrachloroethene	164	9.511	9.518	-0.007	97	48076	33.5	
82 2-Hexanone	43		9.658				ND	
84 Chlorodibromomethane	129		9.810				ND	
85 Ethylene Dibromide	107		9.925				ND	
87 Chlorobenzene	112		10.412				ND	
89 1,1,1,2-Tetrachloroethane	131		10.509				ND	
90 Ethylbenzene	106		10.515				ND	
91 m-Xylene & p-Xylene	106		10.643				ND	
92 o-Xylene	106		11.026				ND	
93 Styrene	104		11.051				ND	
94 Bromoform	173		11.233				ND	
99 1,1,2,2-Tetrachloroethane	83		11.708				ND	
S 133 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

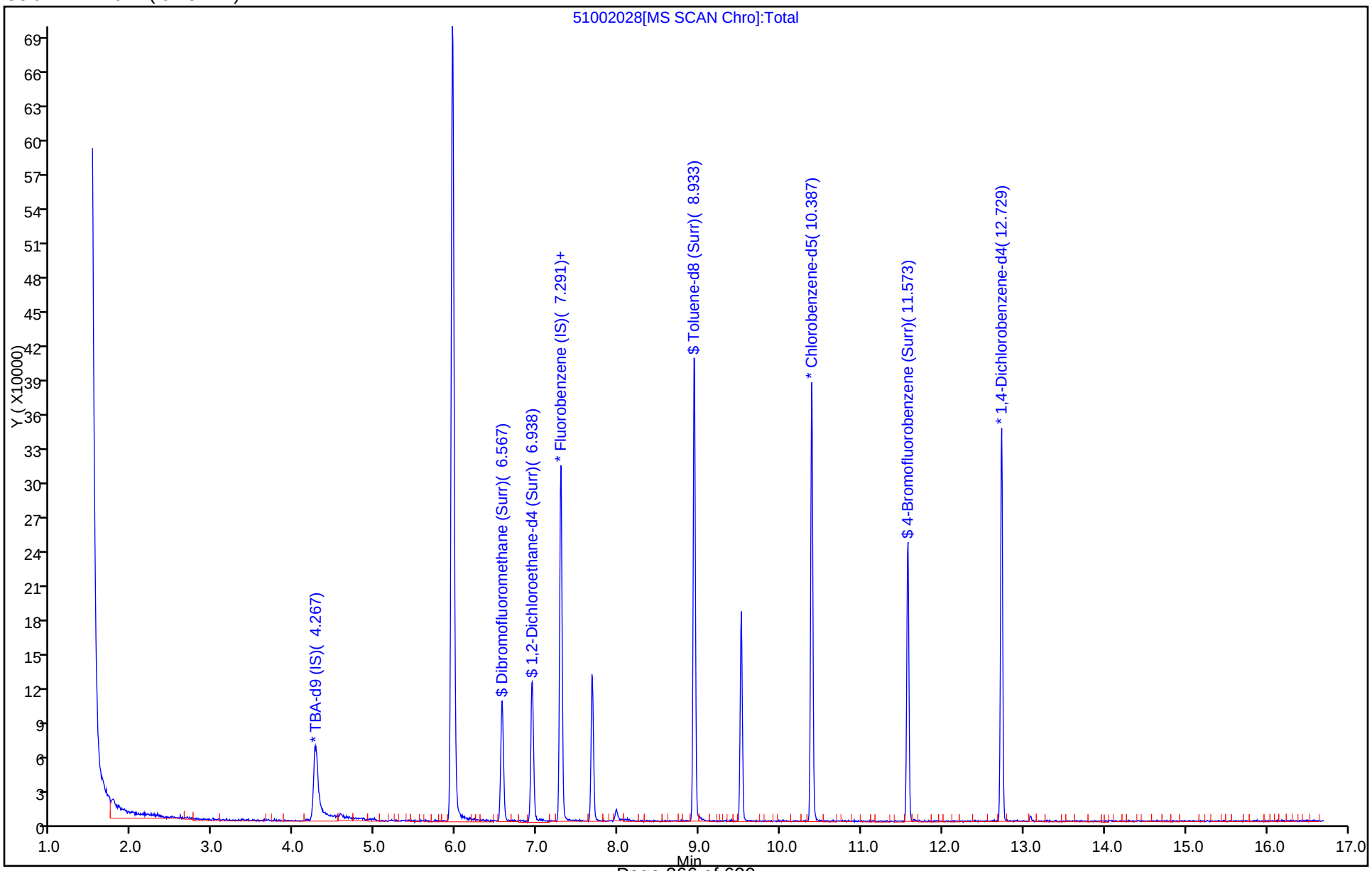
Report Date: 03-Oct-2015 08:40:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002028.D

Injection Date:	02-Oct-2015 22:46:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48073-C-2	Lab Sample ID:	180-48073-2	Worklist Smp#:	28
Client ID:	HD-MW-16S-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)

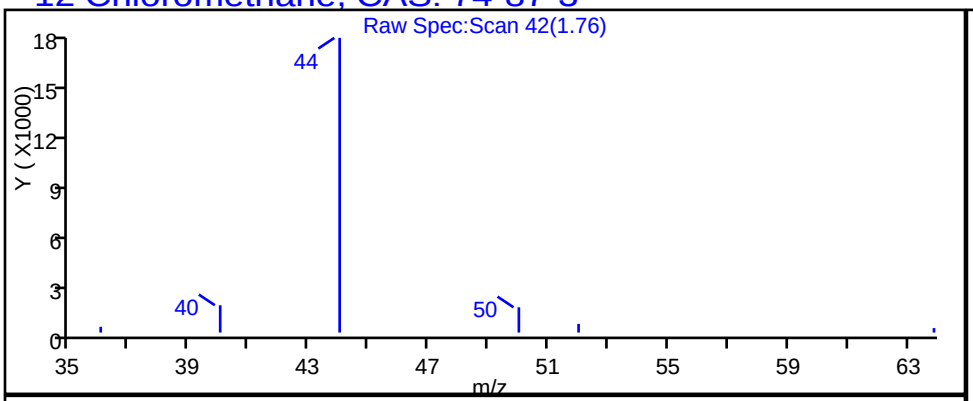


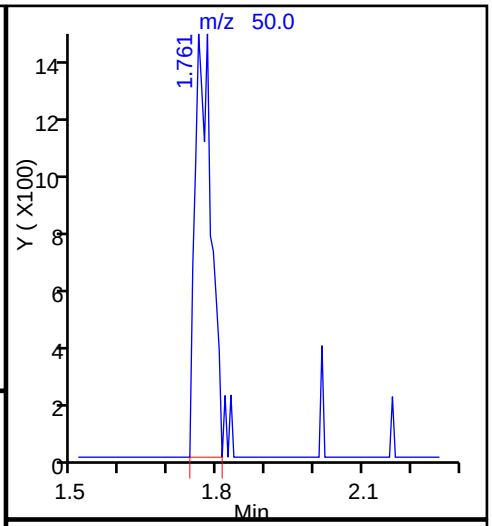
Report Date: 03-Oct-2015 08:40:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

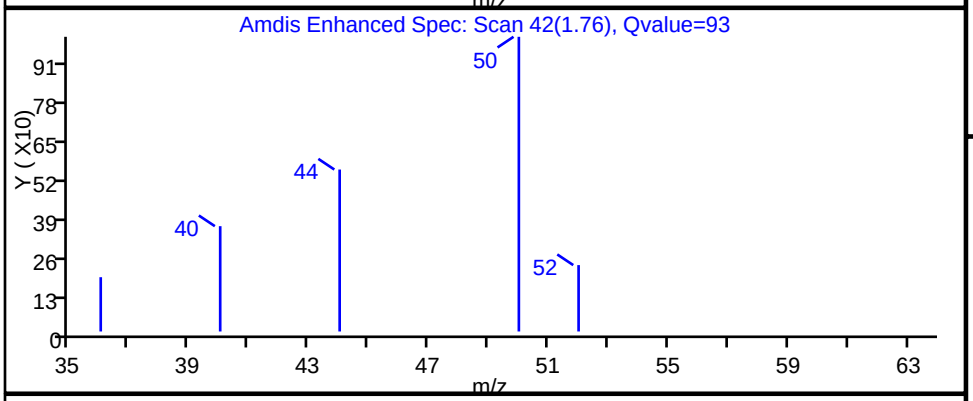
TestAmerica Pittsburgh

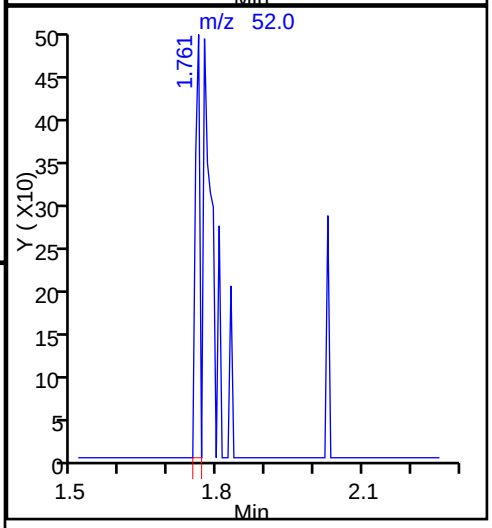
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002028.D		
Injection Date:	02-Oct-2015 22:46:30	Instrument ID:	CHHP5
Lims ID:	180-48073-C-2	Lab Sample ID:	180-48073-2
Client ID:	HD-MW-16S-0/1-0		
Operator ID:	001562	ALS Bottle#:	26 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

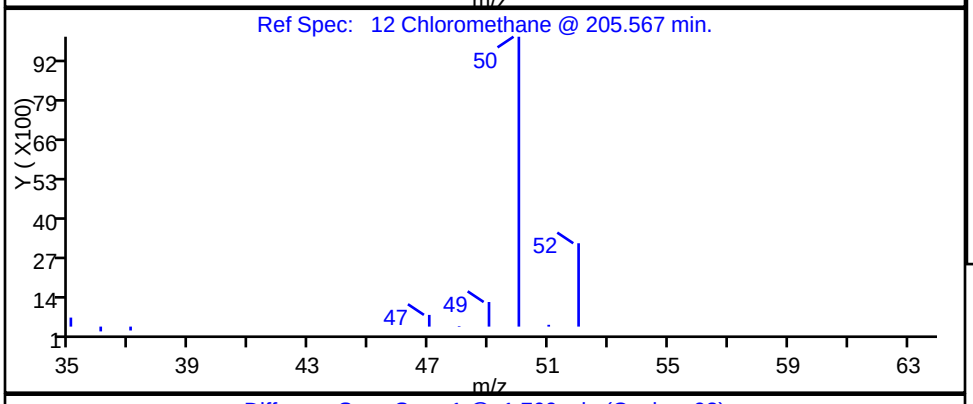
12 Chloromethane, CAS: 74-87-3

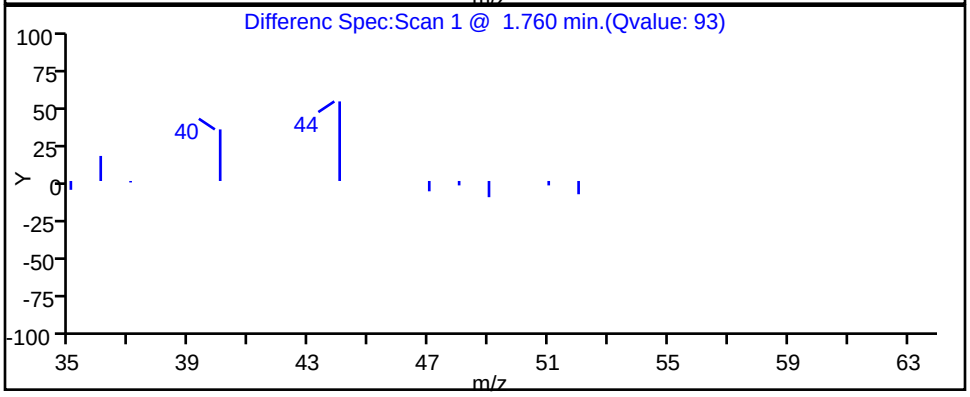










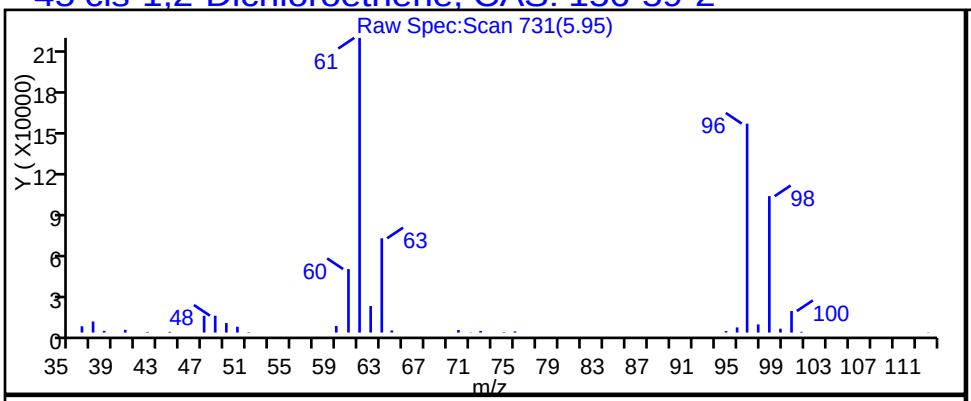


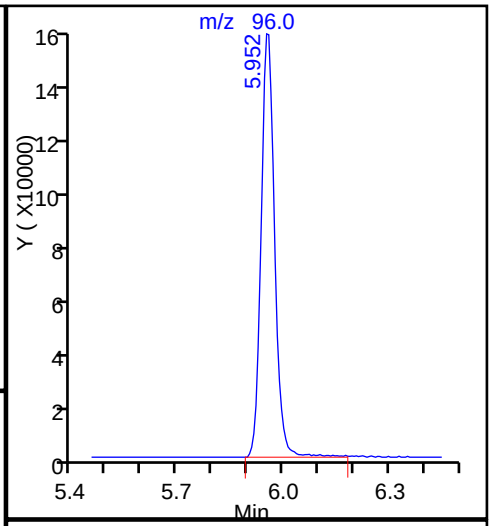
Report Date: 03-Oct-2015 08:40:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

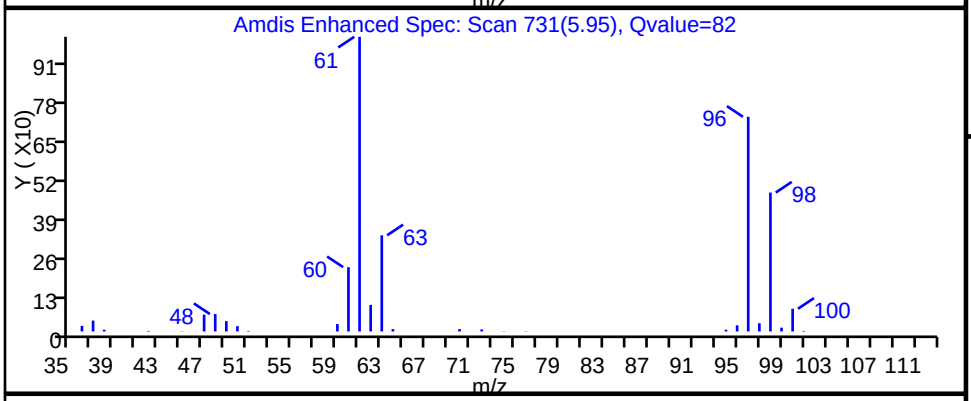
TestAmerica Pittsburgh

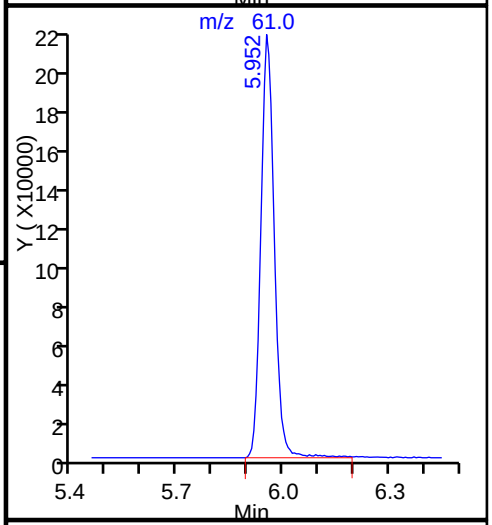
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002028.D		
Injection Date:	02-Oct-2015 22:46:30	Instrument ID:	CHHP5
Lims ID:	180-48073-C-2	Lab Sample ID:	180-48073-2
Client ID:	HD-MW-16S-0/1-0		
Operator ID:	001562	ALS Bottle#:	26 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

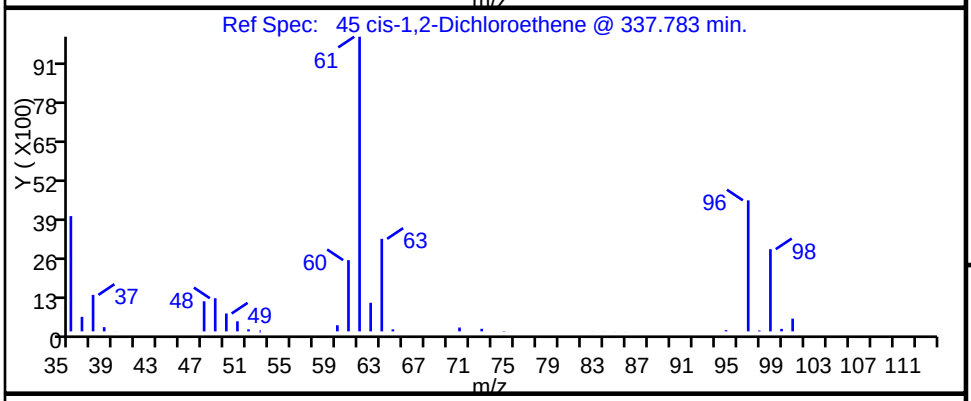
45 cis-1,2-Dichloroethene, CAS: 156-59-2

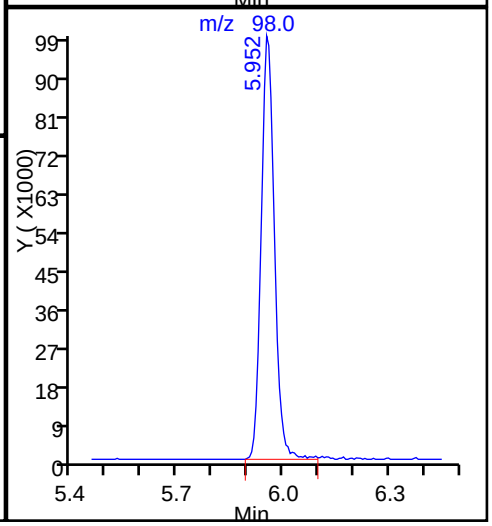


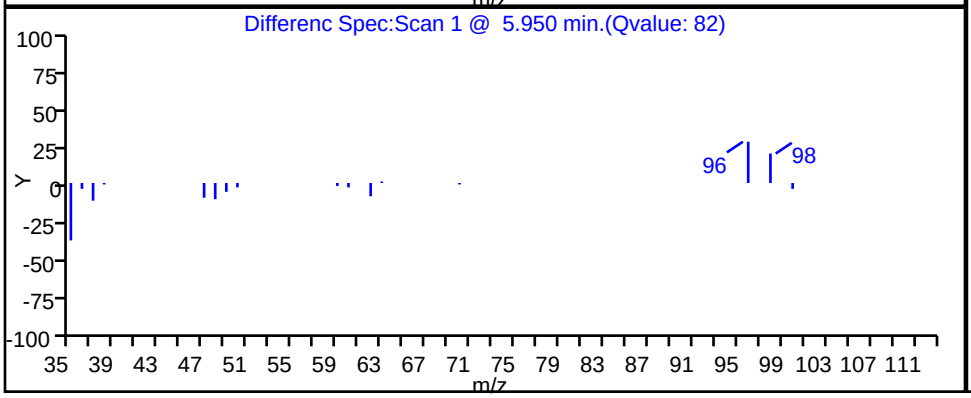












Report Date: 03-Oct-2015 08:40:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002028.D

Injection Date: 02-Oct-2015 22:46:30 Instrument ID: CHHP5

Lims ID: 180-48073-C-2 Lab Sample ID: 180-48073-2

Client ID: HD-MW-16S-0/1-0

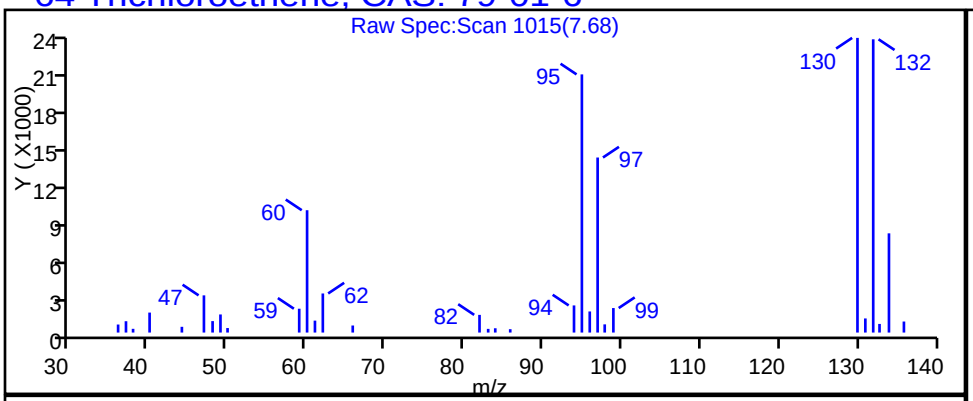
Operator ID: 001562 ALS Bottle#: 26 Worklist Smp#: 28

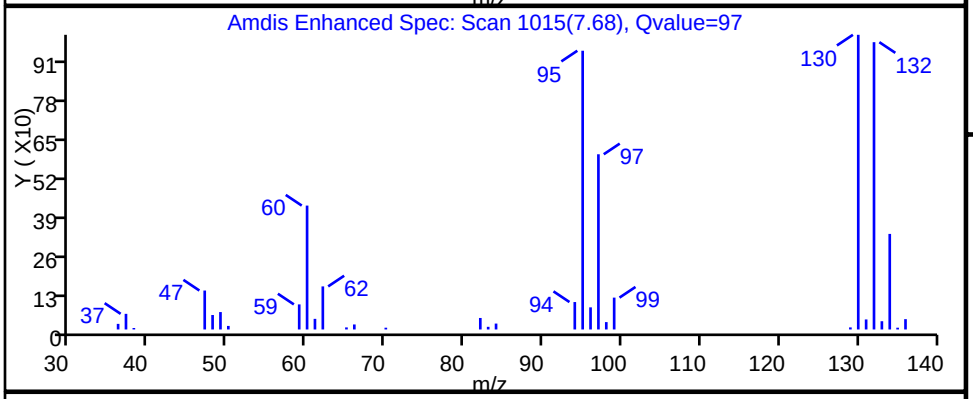
Purge Vol: 5.000 mL Dil. Factor: 1.0000

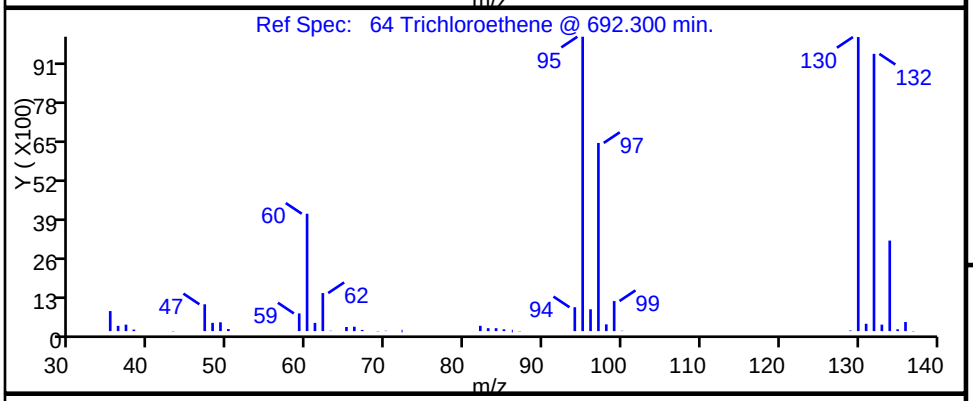
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL

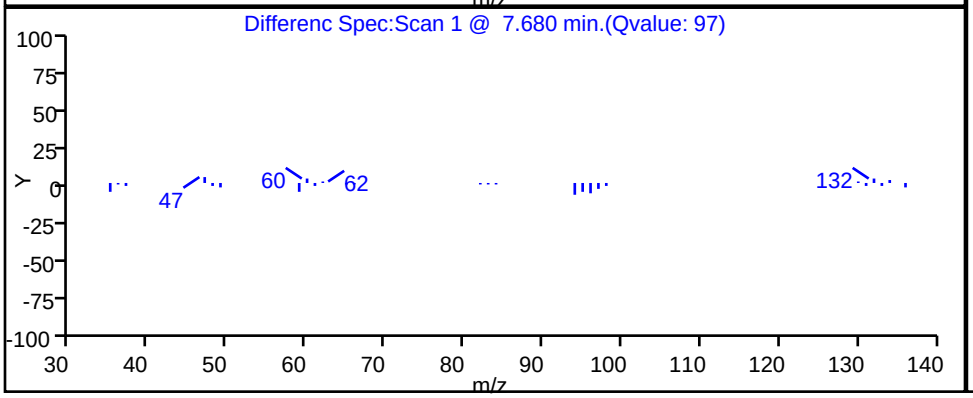
Column: DB-624 (0.18 mm) Detector MS SCAN

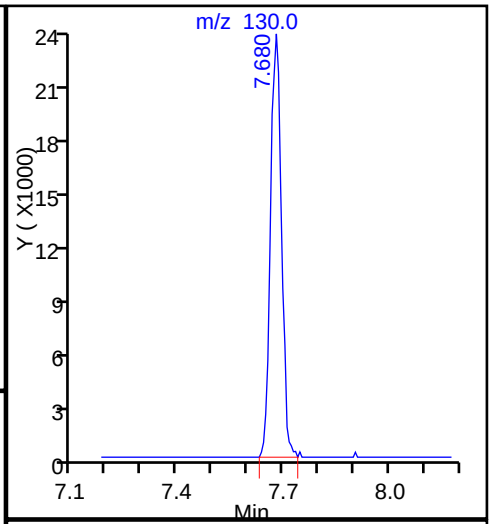
64 Trichloroethene, CAS: 79-01-6

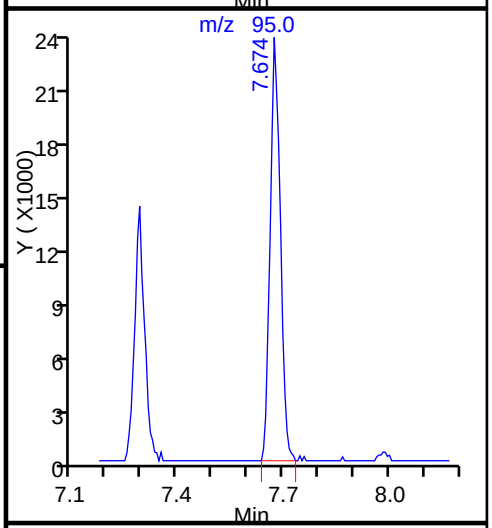


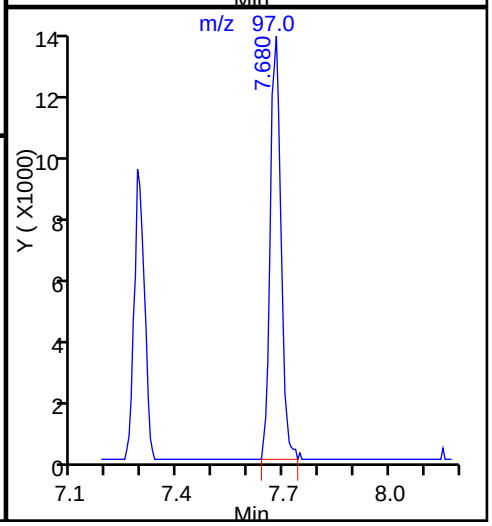












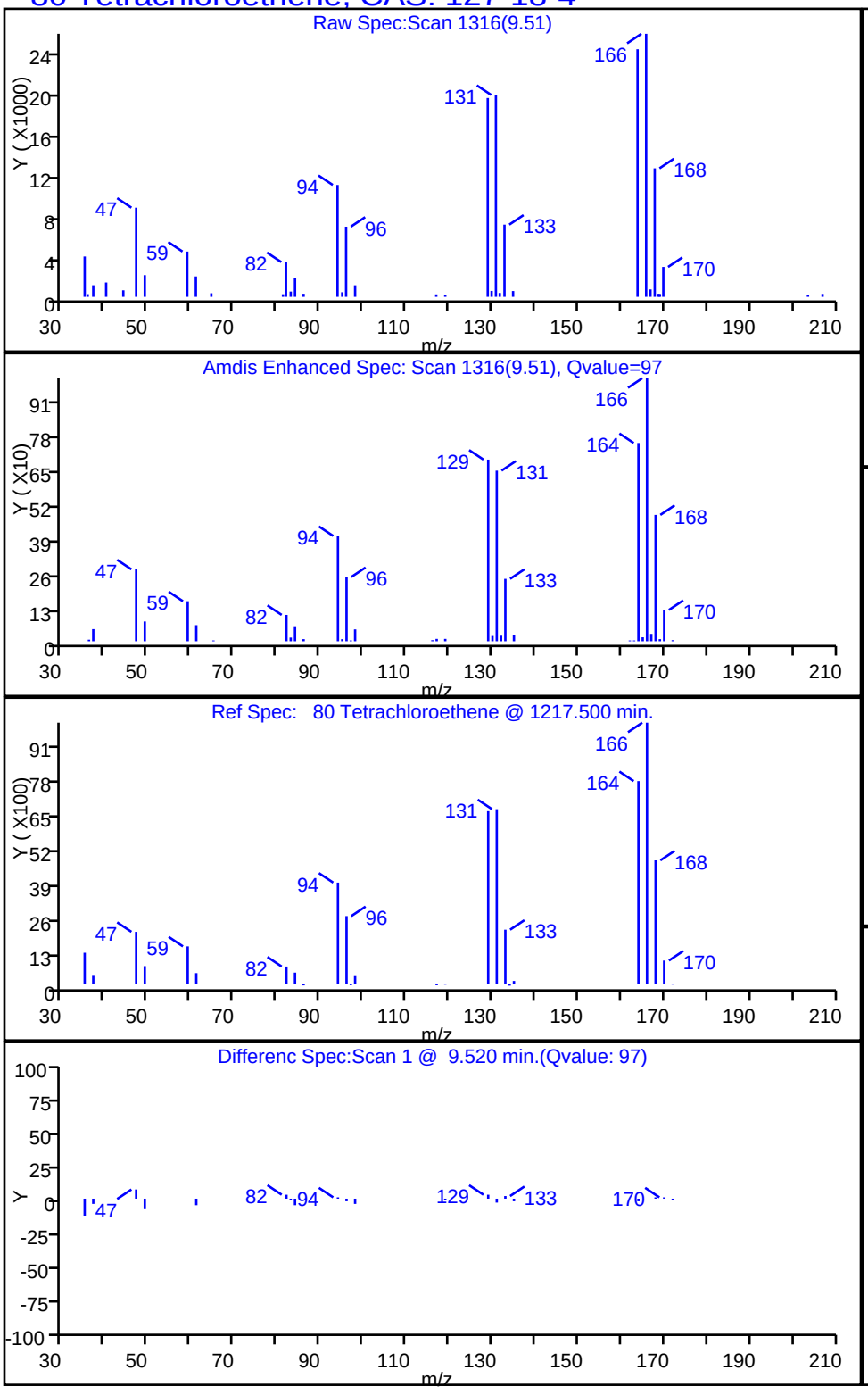
Report Date: 03-Oct-2015 08:40:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

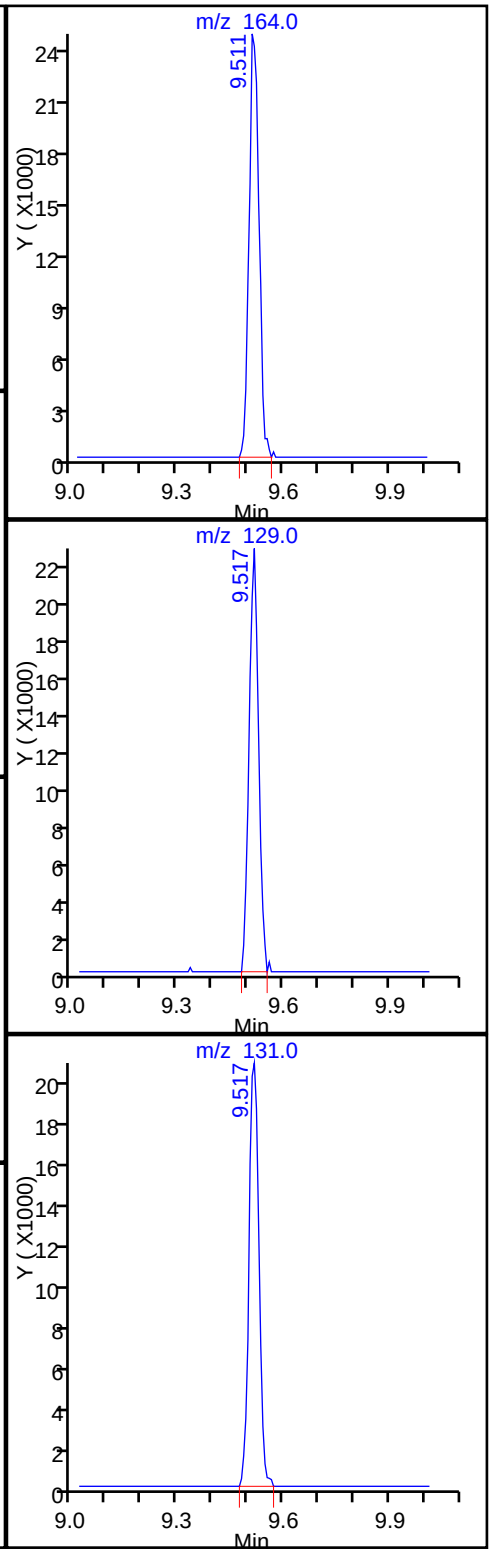
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002028.D

Injection Date:	02-Oct-2015 22:46:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-2	Lab Sample ID:	180-48073-2		
Client ID:	HD-MW-16S-0/1-0				
Operator ID:	001562	ALS Bottle#:	26	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-16D-0/1-0 | Lab Sample ID: 180-48073-3

Matrix: Water | Lab File ID: 51001018.D

Analysis Method: 8260C | Date Collected: 09/23/2015 14:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 19:24

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.: 155577 | 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	5.1		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	19		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 ^c	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U ^c	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.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-16D-0/1-0 Lab Sample ID: 180-48073-3

Matrix: Water Lab File ID: 51001018.D

Analysis Method: 8260C Date Collected: 09/23/2015 14:05

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2015 19:24

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.: 155577 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)	98		64-135
2037-26-5	Toluene-d8 (Surr)	100		71-118
460-00-4	4-Bromofluorobenzene (Surr)	91		70-118
1868-53-7	Dibromofluoromethane (Surr)	107		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001018.D
Lims ID: 180-48073-B-3 Lab Sample ID: 180-48073-3
Client ID: HD-MW-16D-0/1-0
Sample Type: Client
Inject. Date: 01-Oct-2015 19:24:30 ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48073-B-3
Misc. Info.: 180-0008778-018
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 02-Oct-2015 07:51:45 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: fergusond Date: 02-Oct-2015 07:51:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.257	4.278	-0.021	0	108133	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.289	0.003	98	299976	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.386	0.003	88	71377	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.728	0.003	96	105706	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.568	6.559	0.009	92	79152	53.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.940	6.936	0.004	0	98761	48.8	
$ 7 Toluene-d8 (Surr)	98	8.935	8.938	-0.003	94	276174	50.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.569	11.572	-0.003	90	94200	45.4	
12 Chloromethane	50	1.781	1.759	0.022	1	1980	0.7957	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.234				ND	
16 Chloroethane	64		2.386				ND	
22 1,1-Dichloroethene	96		3.347				ND	
24 Acetone	43		3.438				ND	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.138				ND	
33 Acrylonitrile	53		4.521				ND	
34 trans-1,2-Dichloroethene	96		4.564				ND	
35 Methyl tert-butyl ether	73		4.576				ND	
37 1,1-Dichloroethane	63		5.196				ND	
45 cis-1,2-Dichloroethene	96	5.954	5.951	0.003	82	49228	25.4	
46 2-Butanone (MEK)	43		5.957				ND	
49 Chlorobromomethane	128		6.231				ND	
52 Chloroform	83		6.383				ND	
53 1,1,1-Trichloroethane	97		6.541				ND	
56 Carbon tetrachloride	117		6.711				ND	
58 Benzene	78		6.942				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130	7.682	7.679	0.003	97	168419	93.1	
67 1,2-Dichloropropane	63		7.952				ND	
70 1,4-Dioxane	88		8.025				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.232				ND	
74 cis-1,3-Dichloropropene	75		8.676				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
76 Toluene	91		9.005				ND	
77 trans-1,3-Dichloropropene	75		9.254				ND	
79 1,1,2-Trichloroethane	97		9.449				ND	
80 Tetrachloroethene	164		9.516				ND	
82 2-Hexanone	43		9.656				ND	
84 Chlorodibromomethane	129		9.814				ND	
85 Ethylene Dibromide	107		9.929				ND	
87 Chlorobenzene	112		10.416				ND	
89 1,1,1,2-Tetrachloroethane	131		10.507				ND	
90 Ethylbenzene	106		10.513				ND	
91 m-Xylene & p-Xylene	106		10.647				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.049				ND	
94 Bromoform	173		11.231				ND	
99 1,1,2,2-Tetrachloroethane	83		11.706				ND	
S 133 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

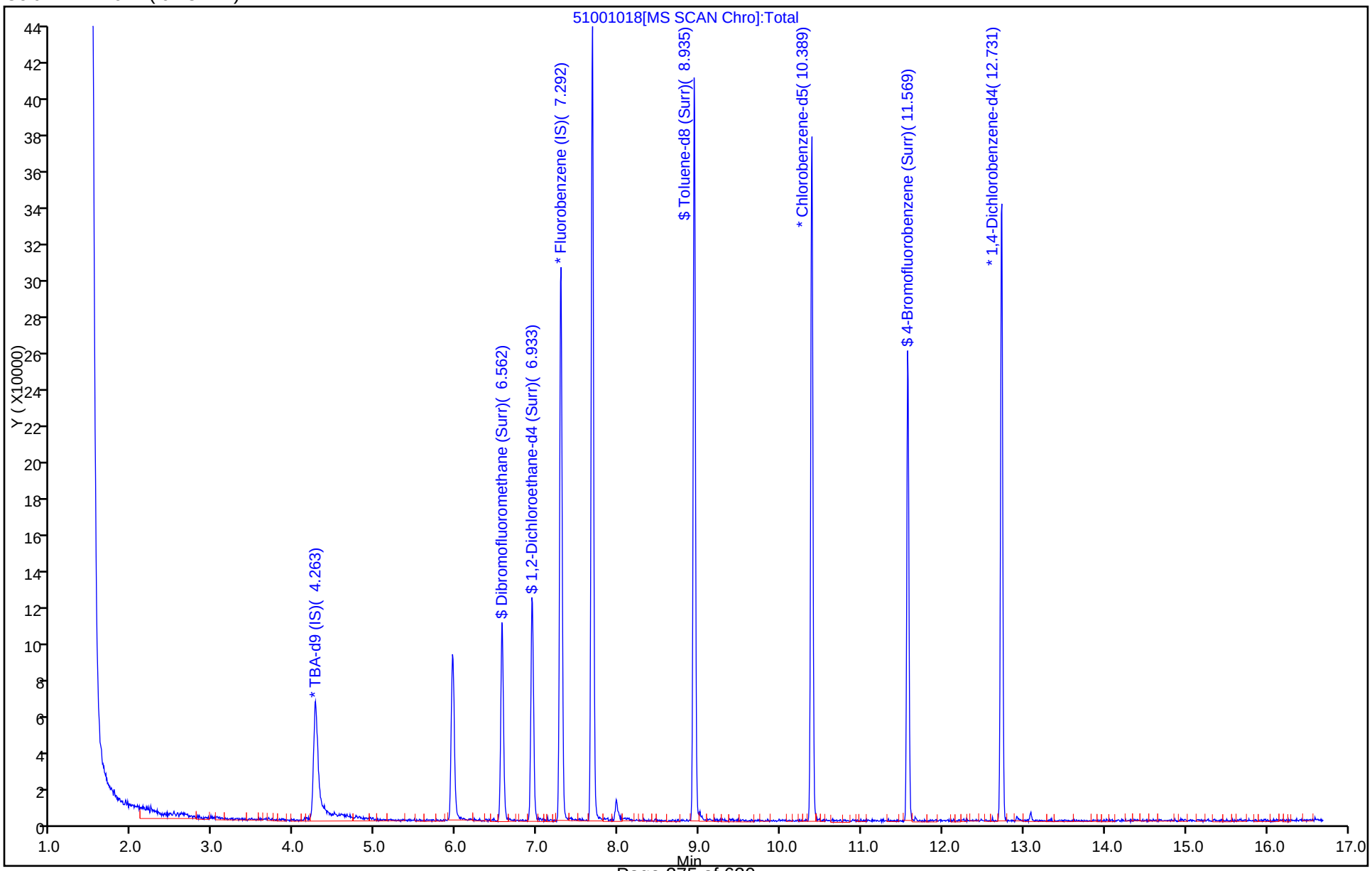
Report Date: 02-Oct-2015 07:51:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001018.D

Injection Date:	01-Oct-2015 19:24:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48073-B-3	Lab Sample ID:	180-48073-3	Worklist Smp#:	18
Client ID:	HD-MW-16D-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



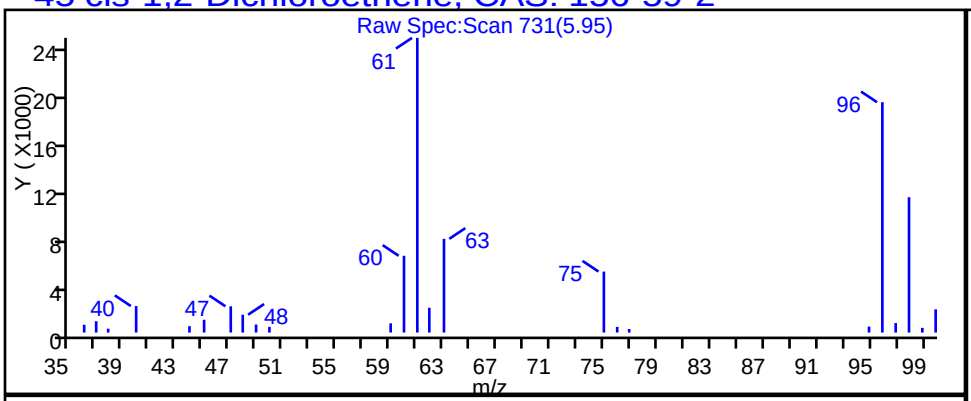
Report Date: 02-Oct-2015 07:51:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

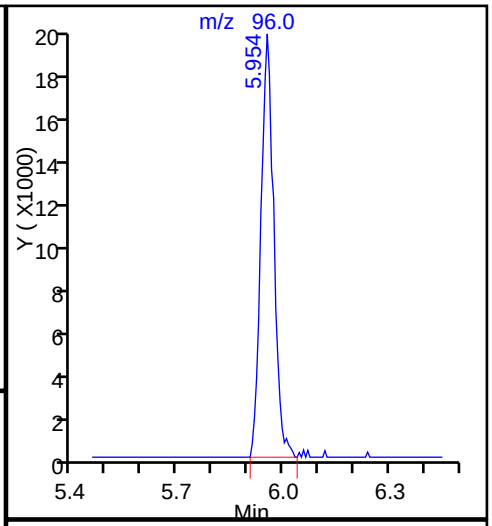
TestAmerica Pittsburgh

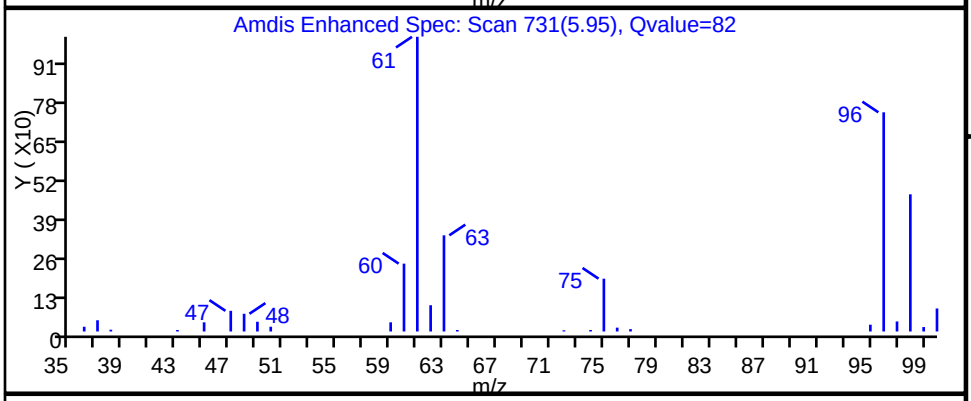
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001018.D

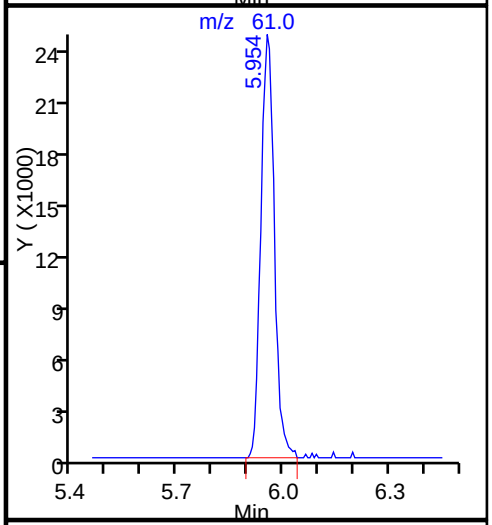
Injection Date:	01-Oct-2015 19:24:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-B-3	Lab Sample ID:	180-48073-3		
Client ID:	HD-MW-16D-0/1-0				
Operator ID:	001562	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

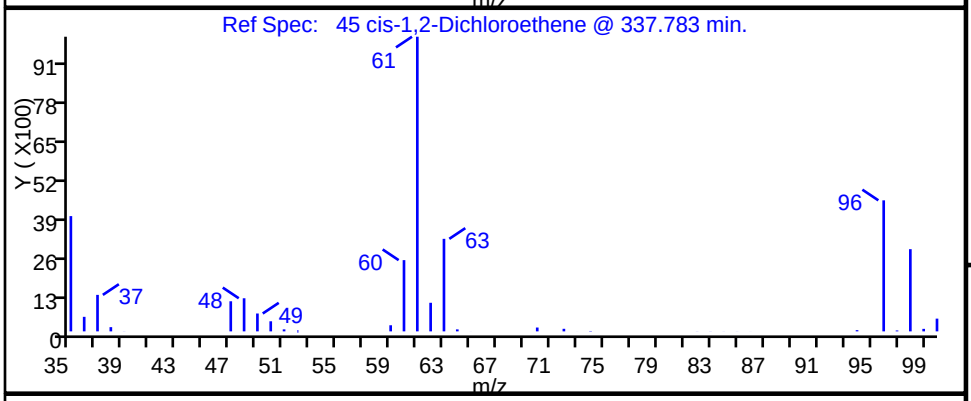
45 cis-1,2-Dichloroethene, CAS: 156-59-2

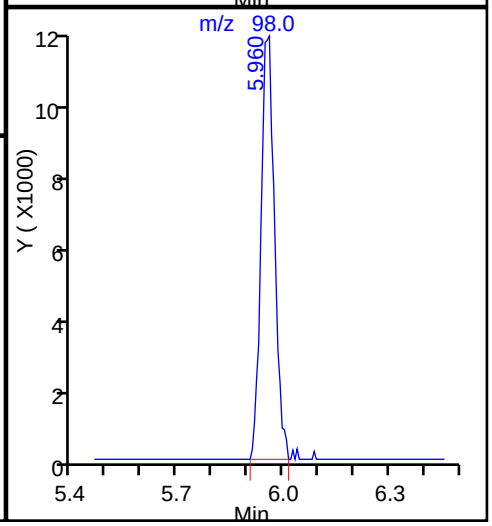


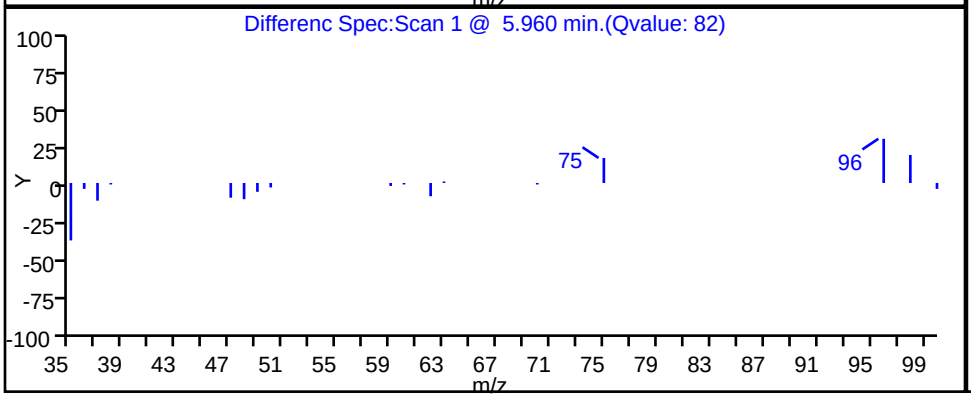












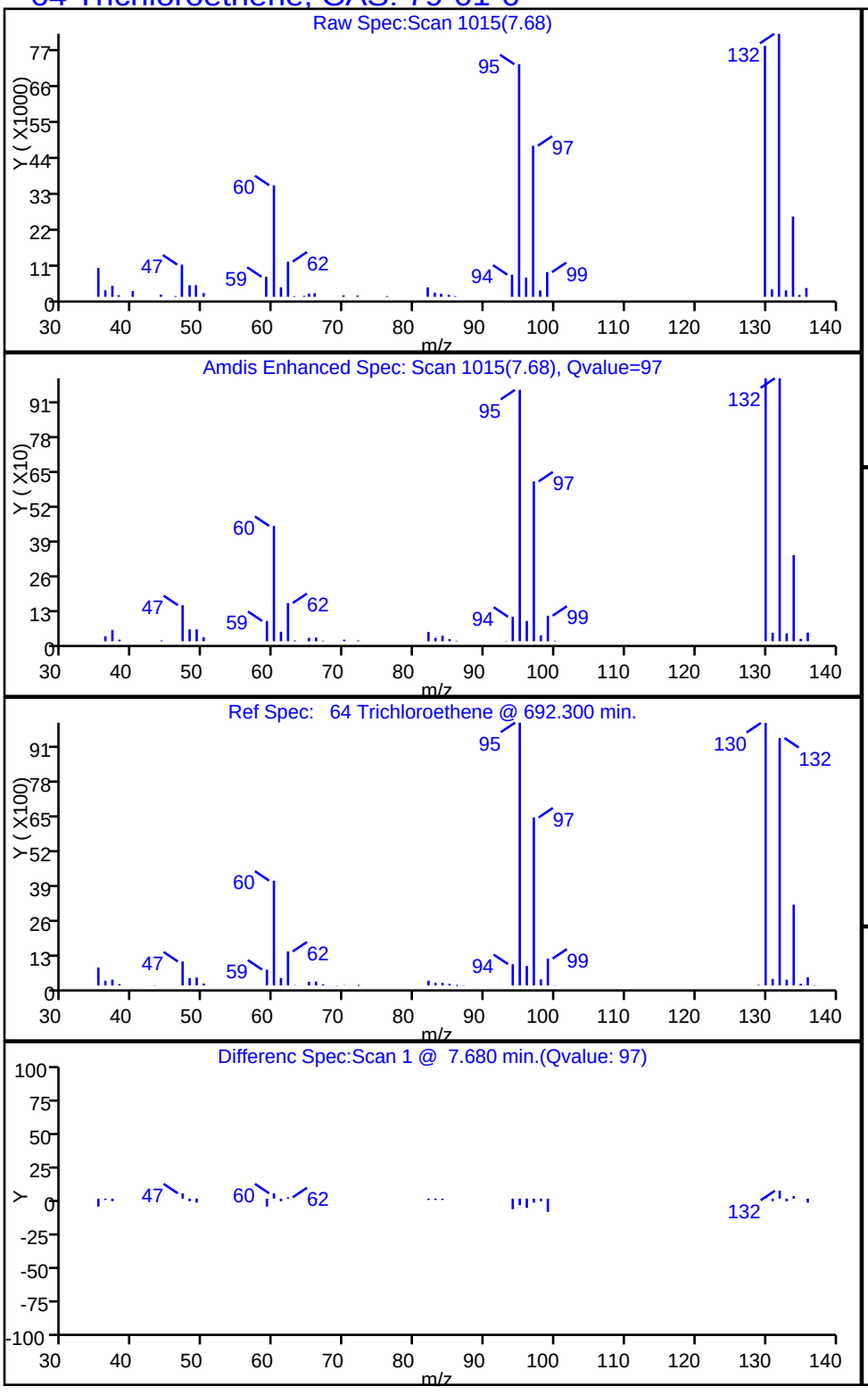
Report Date: 02-Oct-2015 07:51:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

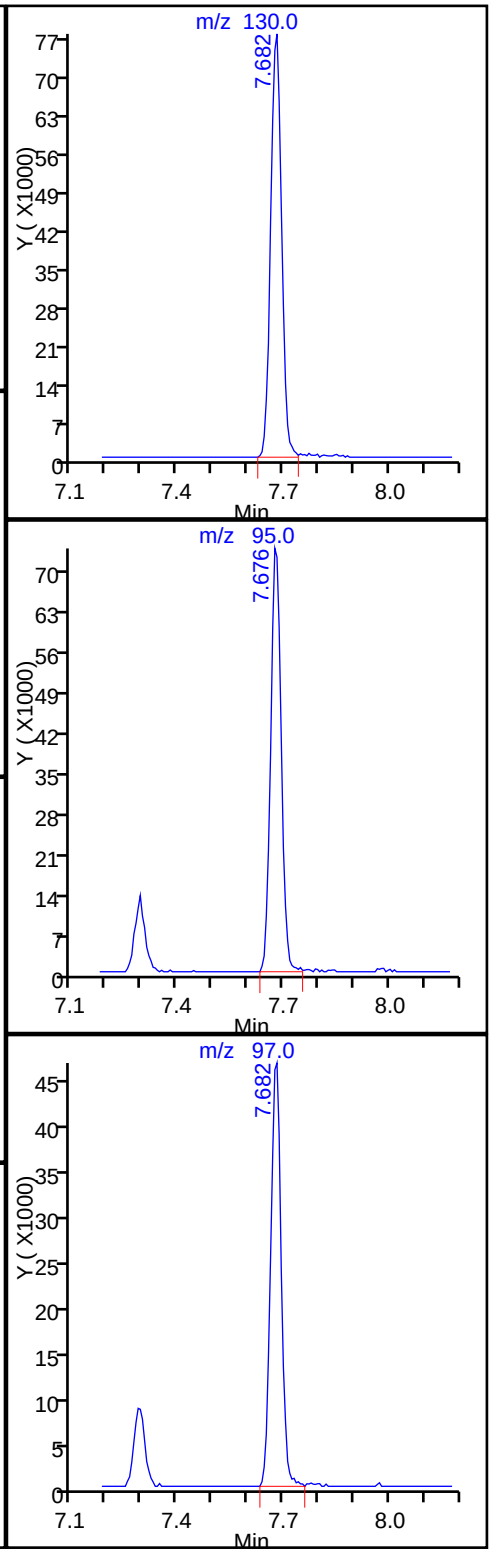
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001018.D

Injection Date:	01-Oct-2015 19:24:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-B-3	Lab Sample ID:	180-48073-3		
Client ID:	HD-MW-16D-0/1-0				
Operator ID:	001562	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

64 Trichloroethene, CAS: 79-01-6





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-49S-0/1-0 | Lab Sample ID: 180-48073-4

Matrix: Water | Lab File ID: 51002030.D

Analysis Method: 8260C | Date Collected: 09/23/2015 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2015 23:34

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.: 155711 | 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	160	J	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	580		200	23
156-59-2	cis-1,2-Dichloroethene	3900		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	830		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	1700		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 ^c	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	170	J	200	30
591-78-6	2-Hexanone	1000	U	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.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-49S-0/1-0 | Lab Sample ID: 180-48073-4

Matrix: Water | Lab File ID: 51002030.D

Analysis Method: 8260C | Date Collected: 09/23/2015 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2015 23:34

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.: 155711 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	200	U ^c	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)	101	^c	64-135
2037-26-5	Toluene-d8 (Surr)	94		71-118
460-00-4	4-Bromofluorobenzene (Surr)	86		70-118
1868-53-7	Dibromofluoromethane (Surr)	109		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002030.D
Lims ID: 180-48073-C-4 Lab Sample ID: 180-48073-4
Client ID: HD-MW-49S-0/1-0
Sample Type: Client
Inject. Date: 02-Oct-2015 23:34:30 ALS Bottle#: 28 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 180-48073-C-4, 200x
Misc. Info.: 180-0008799-030
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Oct-2015 08:46:04 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: fergusond Date: 03-Oct-2015 08:46:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.259	4.268	-0.009	0	109818	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.285	0.004	98	287938	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.388	-0.003	87	72733	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.727	12.730	-0.003	96	100825	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.565	6.561	0.004	94	76865	54.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.932	0.004	0	97746	50.3	
$ 7 Toluene-d8 (Surr)	98	8.937	8.934	0.003	94	262352	46.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.571	11.568	0.003	90	91240	43.1	
12 Chloromethane	50		1.767				ND	
13 Vinyl chloride	62		1.907				ND	
15 Bromomethane	94		2.236				ND	
16 Chloroethane	64		2.388				ND	
22 1,1-Dichloroethene	96	3.347	3.349	-0.002	97	6499	4.05	
24 Acetone	43		3.440				ND	
26 Carbon disulfide	76		3.629				ND	
31 Methylene Chloride	84		4.128				ND	
33 Acrylonitrile	53		4.517				ND	
34 trans-1,2-Dichloroethene	96		4.560				ND	
35 Methyl tert-butyl ether	73		4.572				ND	
37 1,1-Dichloroethane	63	5.202	5.198	0.004	97	49610	14.5	
45 cis-1,2-Dichloroethene	96	5.956	5.947	0.009	82	181510	97.6	
46 2-Butanone (MEK)	43		5.953				ND	
49 Chlorobromomethane	128		6.233				ND	
52 Chloroform	83		6.379				ND	
53 1,1,1-Trichloroethane	97	6.546	6.537	0.009	96	45463	20.7	
56 Carbon tetrachloride	117		6.713				ND	
58 Benzene	78		6.938				ND	
59 1,2-Dichloroethane	62		7.011				ND	
64 Trichloroethene	130	7.678	7.674	0.004	95	73592	42.4	
67 1,2-Dichloropropane	63		7.948				ND	
70 1,4-Dioxane	88		8.033				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.228				ND	
74 cis-1,3-Dichloropropene	75		8.672				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.824				ND	
76 Toluene	91		9.001				ND	
77 trans-1,3-Dichloropropene	75		9.250				ND	
79 1,1,2-Trichloroethane	97		9.445				ND	
80 Tetrachloroethene	164	9.521	9.518	0.003	93	5916	4.23	
82 2-Hexanone	43		9.658				ND	
84 Chlorodibromomethane	129		9.810				ND	
85 Ethylene Dibromide	107		9.925				ND	
87 Chlorobenzene	112		10.412				ND	
89 1,1,1,2-Tetrachloroethane	131		10.509				ND	
90 Ethylbenzene	106		10.515				ND	
91 m-Xylene & p-Xylene	106		10.643				ND	
92 o-Xylene	106		11.026				ND	
93 Styrene	104		11.051				ND	
94 Bromoform	173		11.233				ND	
99 1,1,2,2-Tetrachloroethane	83		11.708				ND	
S 133 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

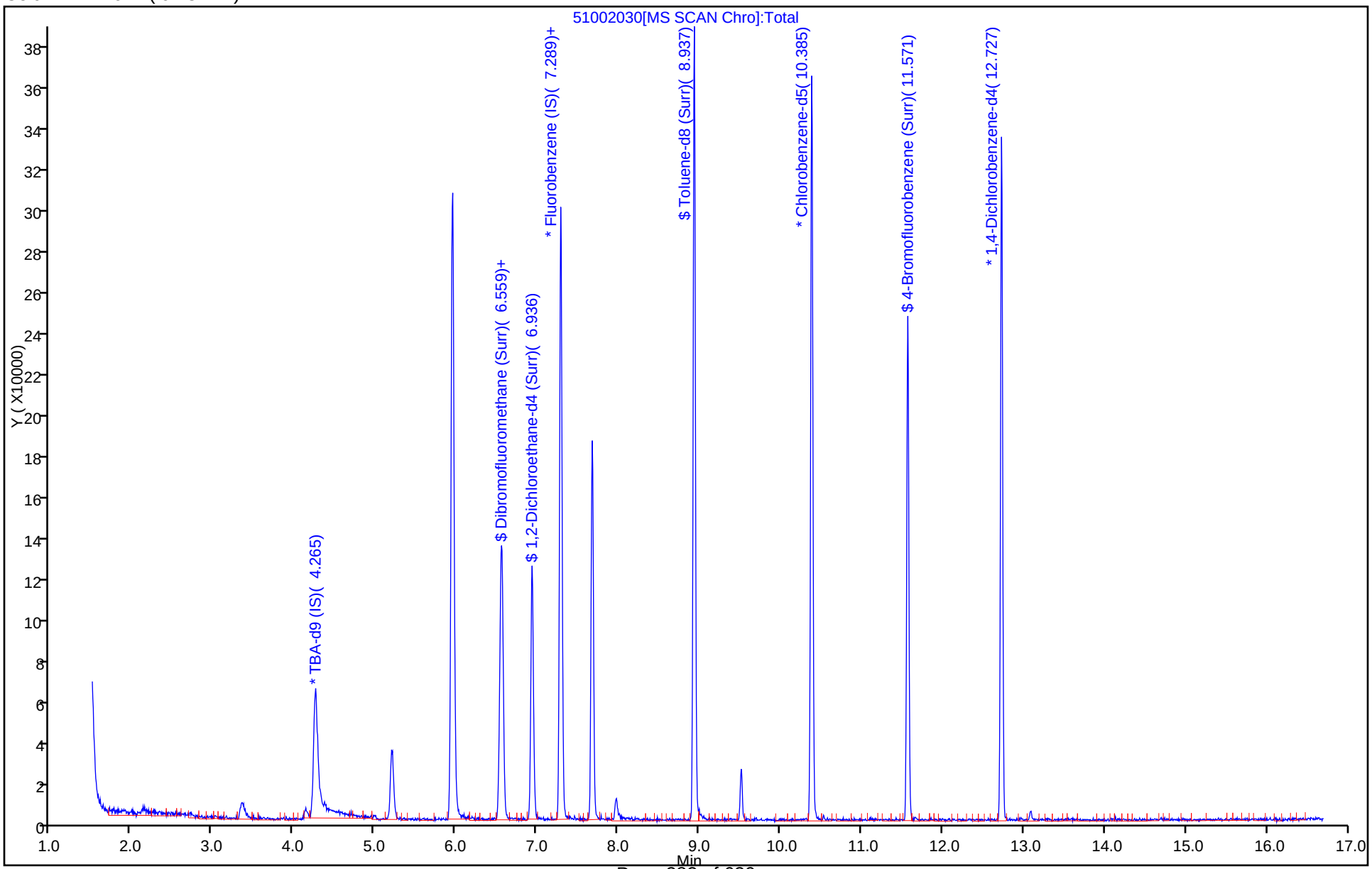
Report Date: 03-Oct-2015 08:46:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002030.D

Injection Date:	02-Oct-2015 23:34:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48073-C-4	Lab Sample ID:	180-48073-4	Worklist Smp#:	30
Client ID:	HD-MW-49S-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	200.0000	ALS Bottle#:	28
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



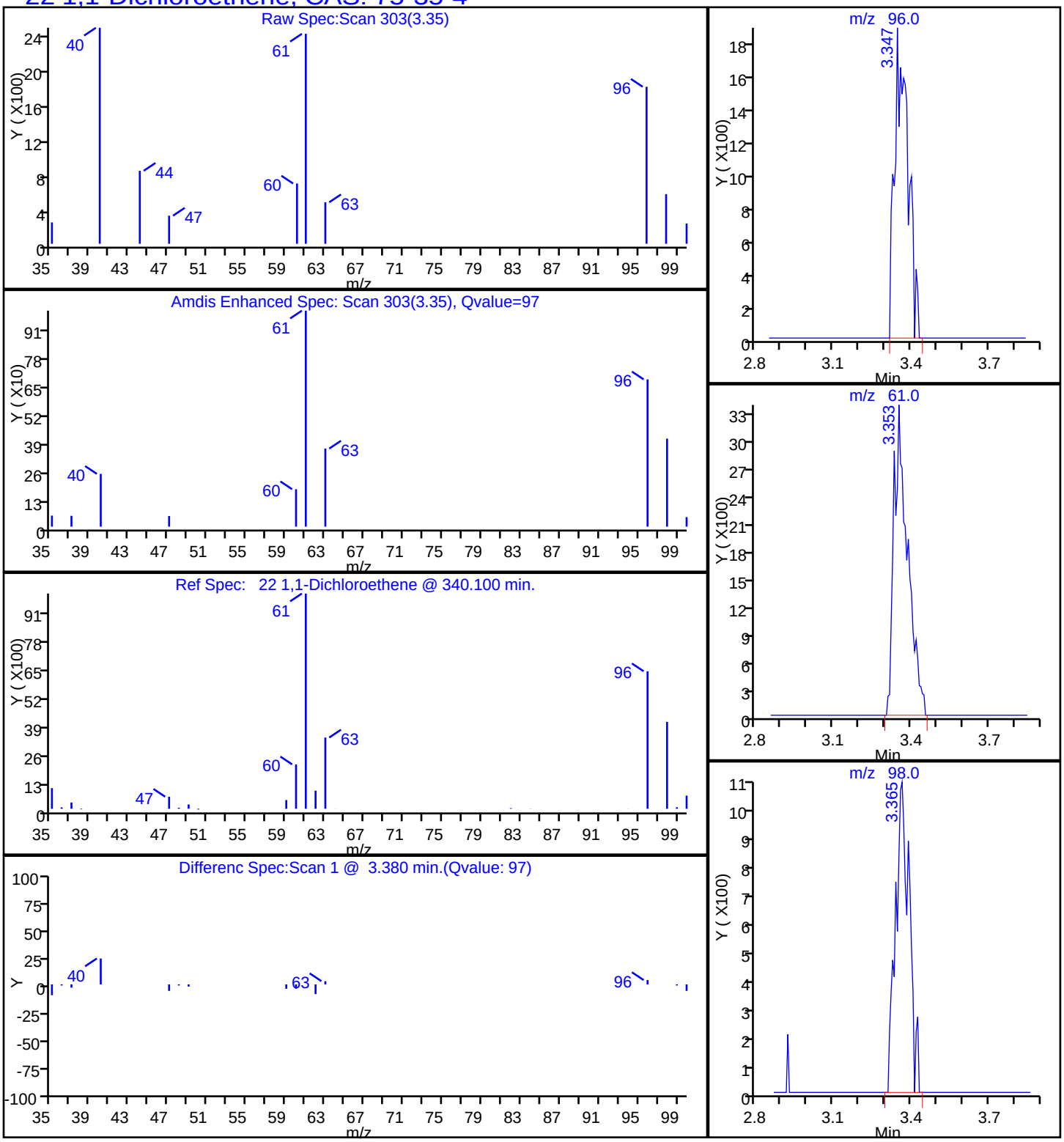
Report Date: 03-Oct-2015 08:46:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002030.D

Injection Date:	02-Oct-2015 23:34:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-4	Lab Sample ID:	180-48073-4		
Client ID:	HD-MW-49S-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



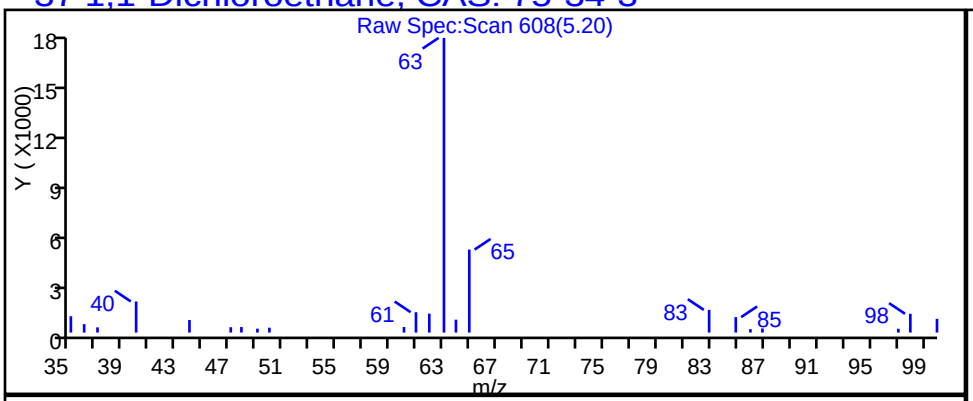
Report Date: 03-Oct-2015 08:46:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

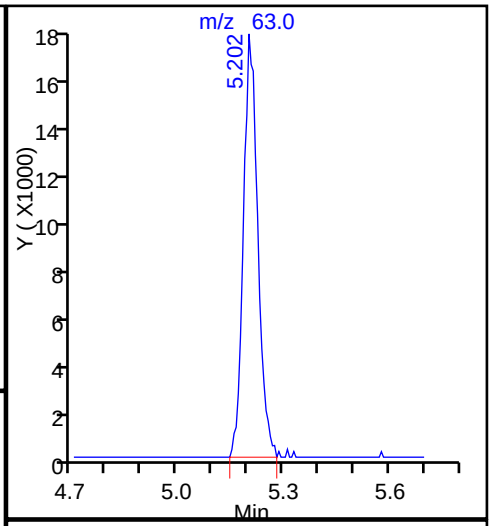
TestAmerica Pittsburgh

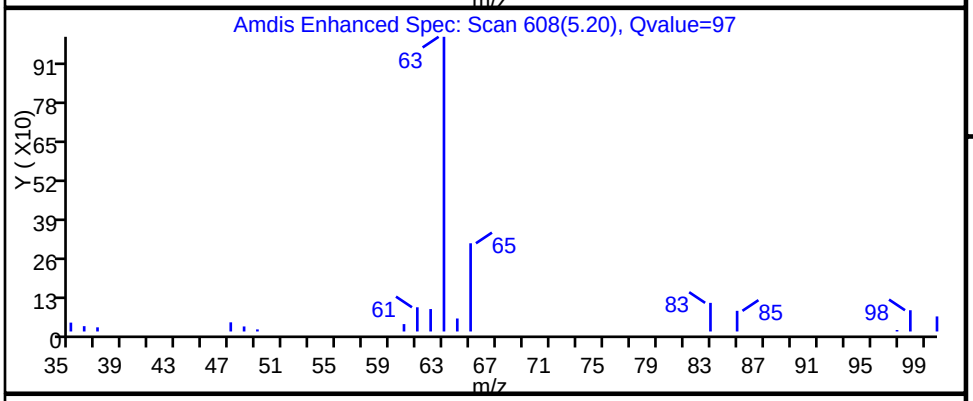
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002030.D

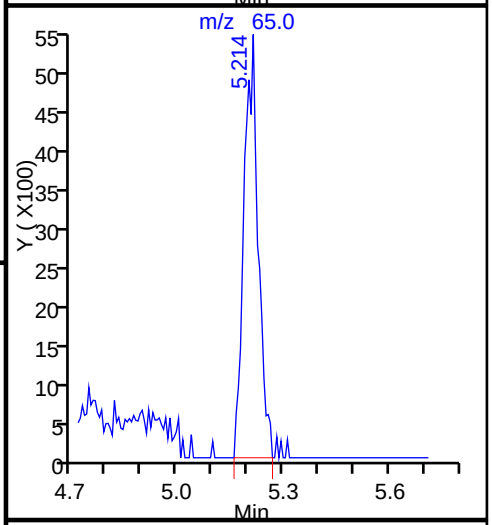
Injection Date:	02-Oct-2015 23:34:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-4	Lab Sample ID:	180-48073-4		
Client ID:	HD-MW-49S-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

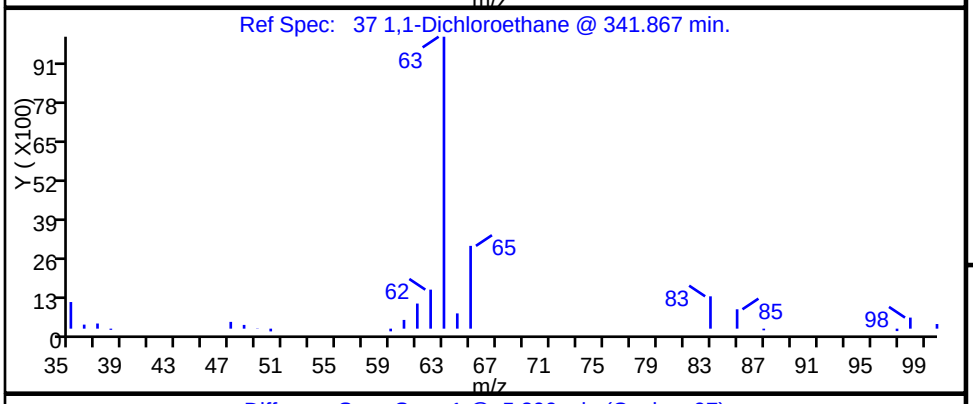
37 1,1-Dichloroethane, CAS: 75-34-3

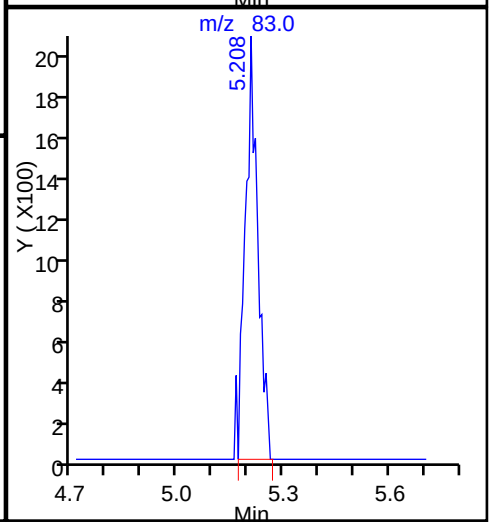


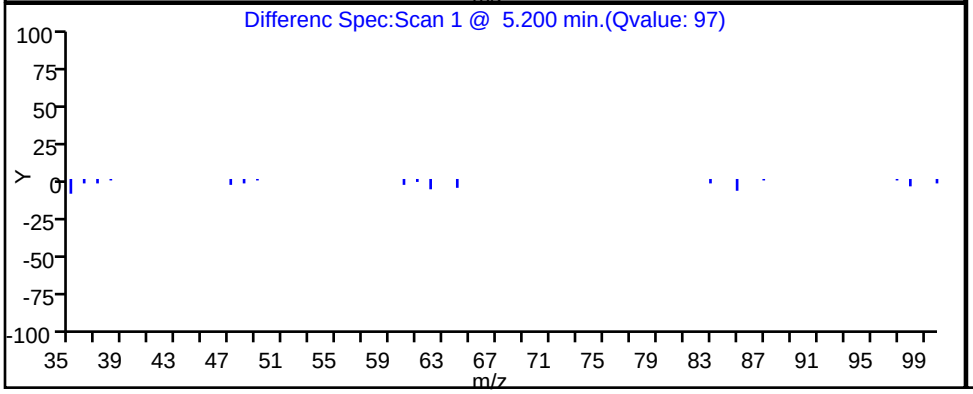












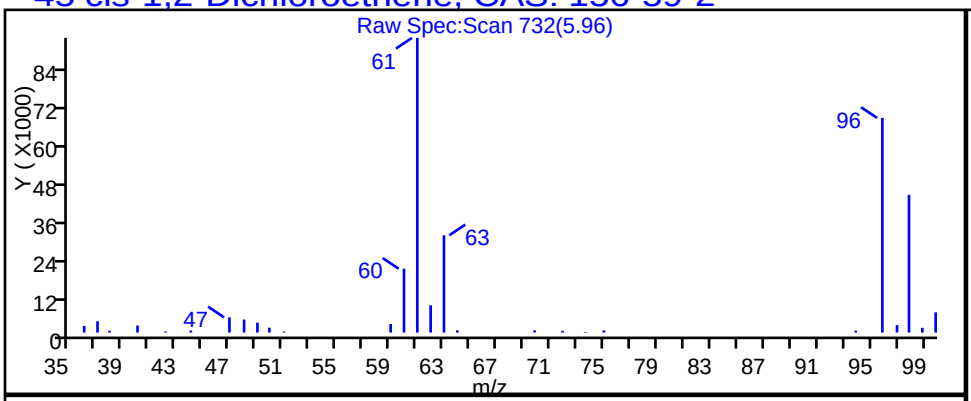
Report Date: 03-Oct-2015 08:46:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

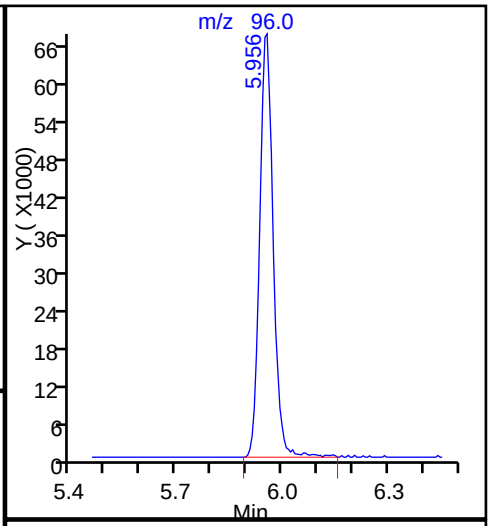
TestAmerica Pittsburgh

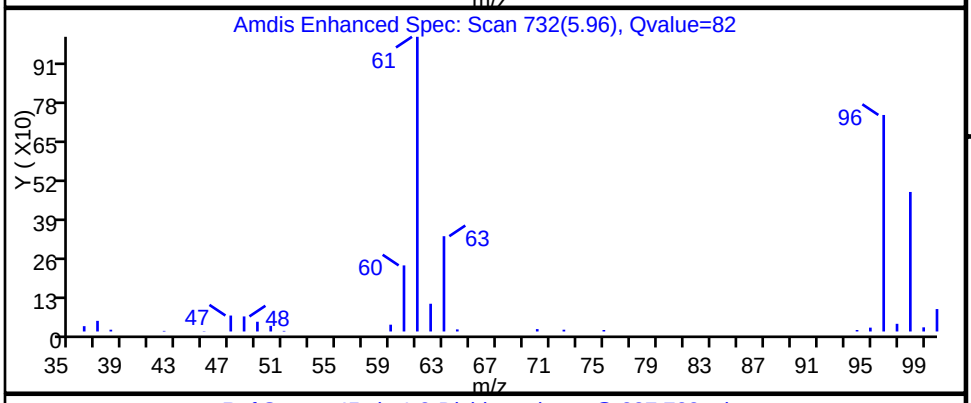
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002030.D

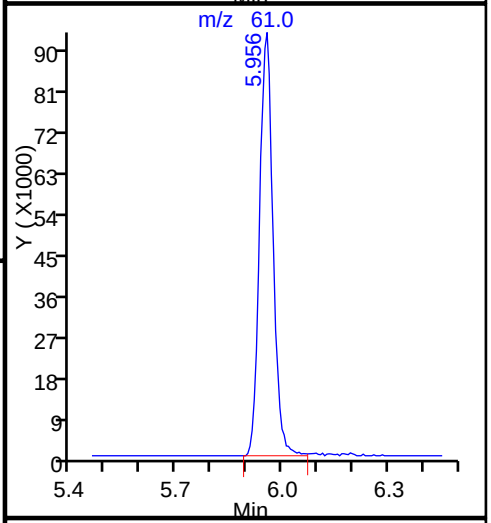
Injection Date:	02-Oct-2015 23:34:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-4	Lab Sample ID:	180-48073-4		
Client ID:	HD-MW-49S-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

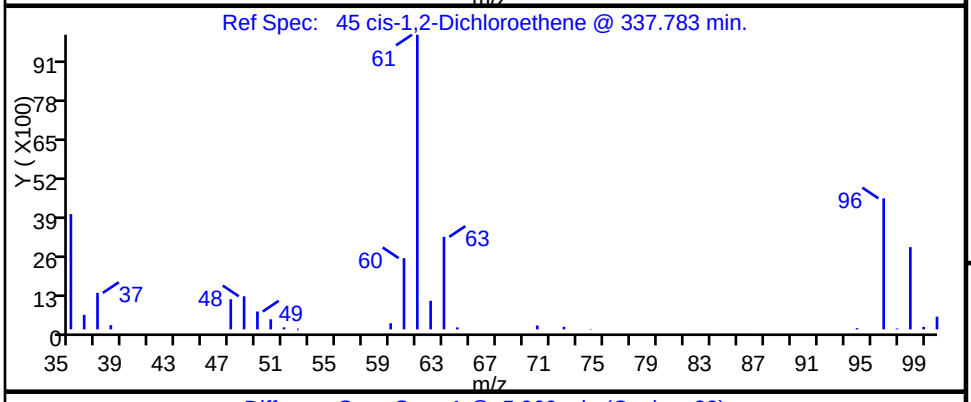
45 cis-1,2-Dichloroethene, CAS: 156-59-2

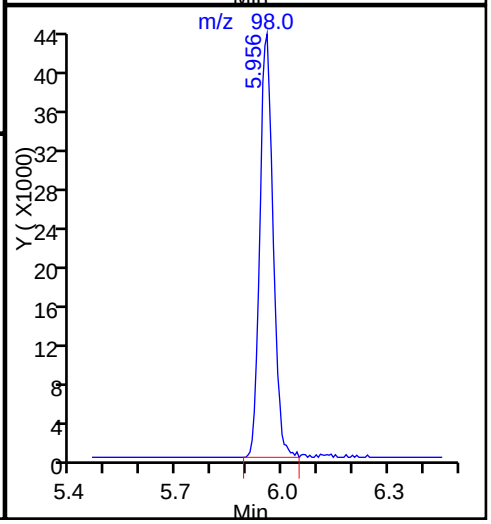


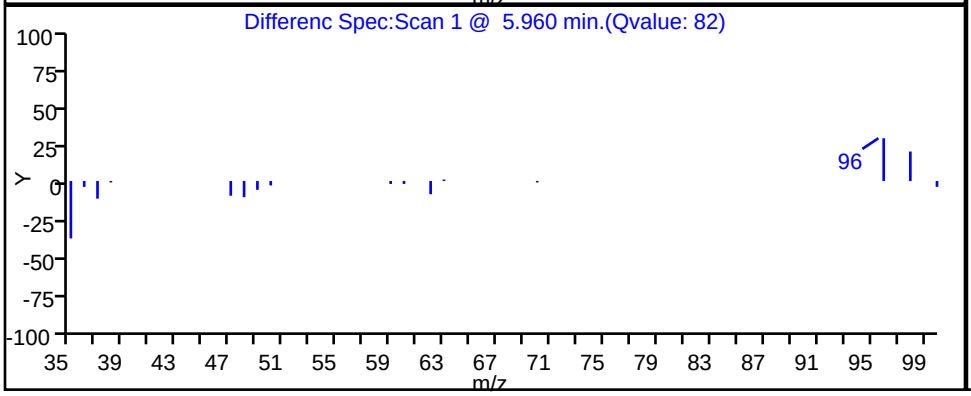










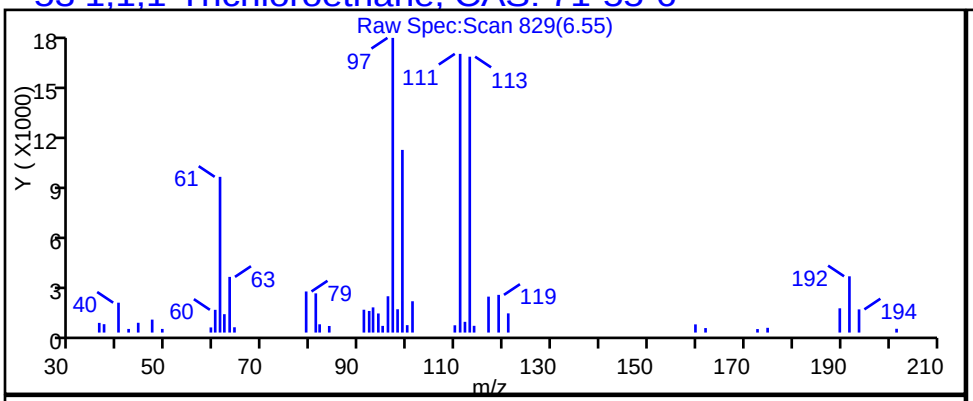


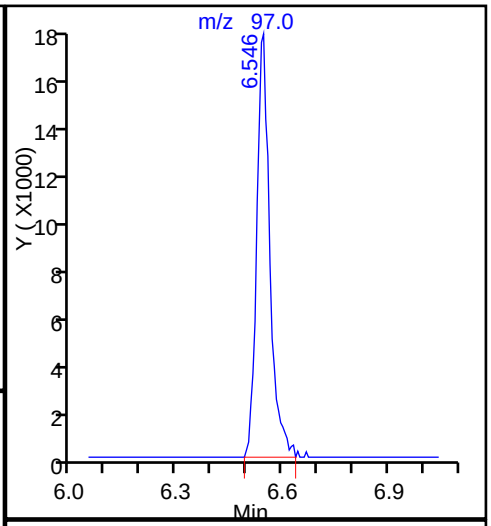
Report Date: 03-Oct-2015 08:46:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

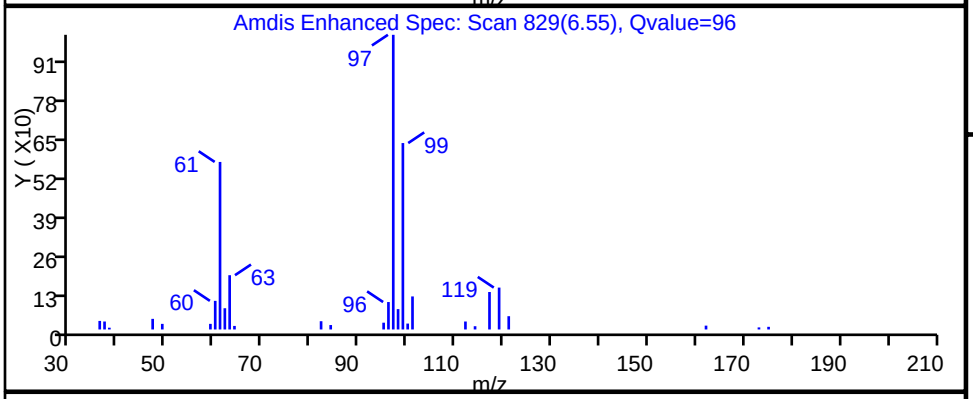
TestAmerica Pittsburgh

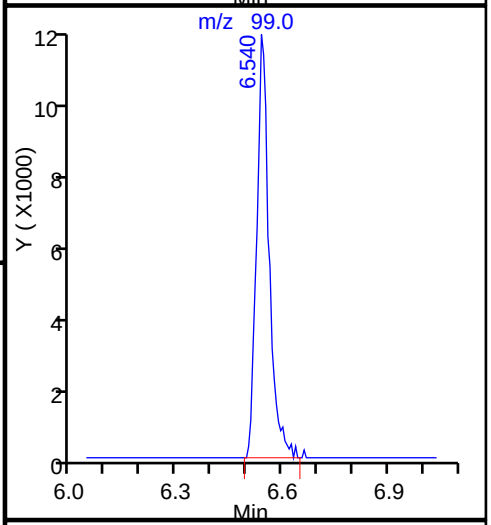
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002030.D				
Injection Date:	02-Oct-2015 23:34:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-4	Lab Sample ID:	180-48073-4		
Client ID:	HD-MW-49S-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

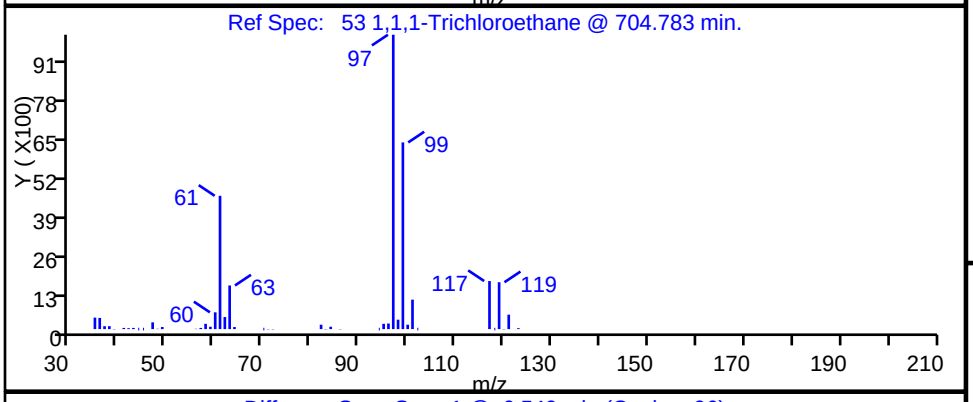
53 1,1,1-Trichloroethane, CAS: 71-55-6

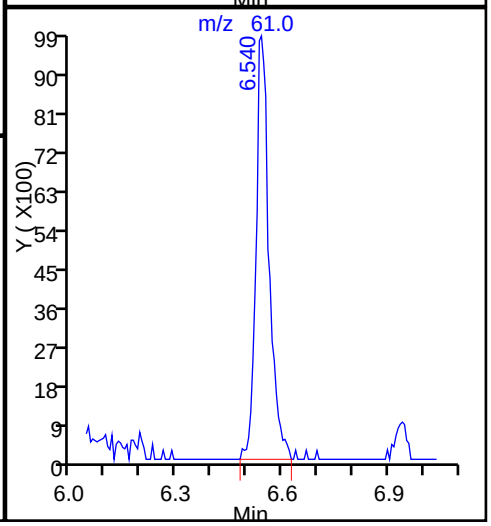


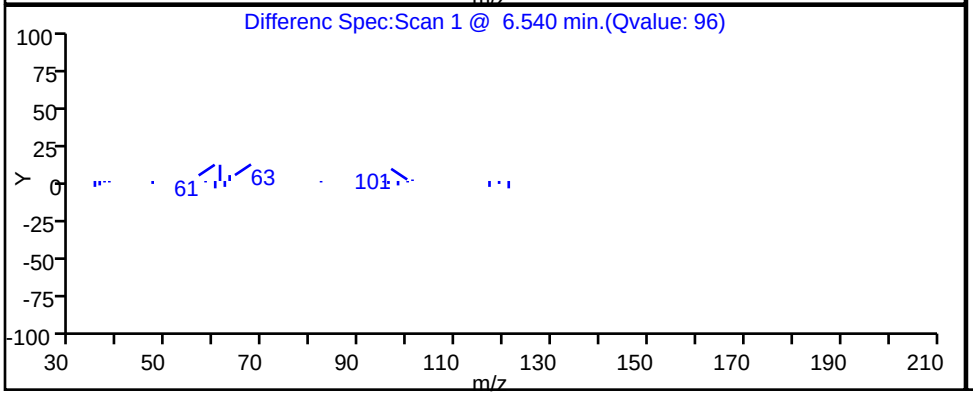












Report Date: 03-Oct-2015 08:46:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002030.D

Injection Date: 02-Oct-2015 23:34:30 Instrument ID: CHHP5

Lims ID: 180-48073-C-4 Lab Sample ID: 180-48073-4

Client ID: HD-MW-49S-0/1-0

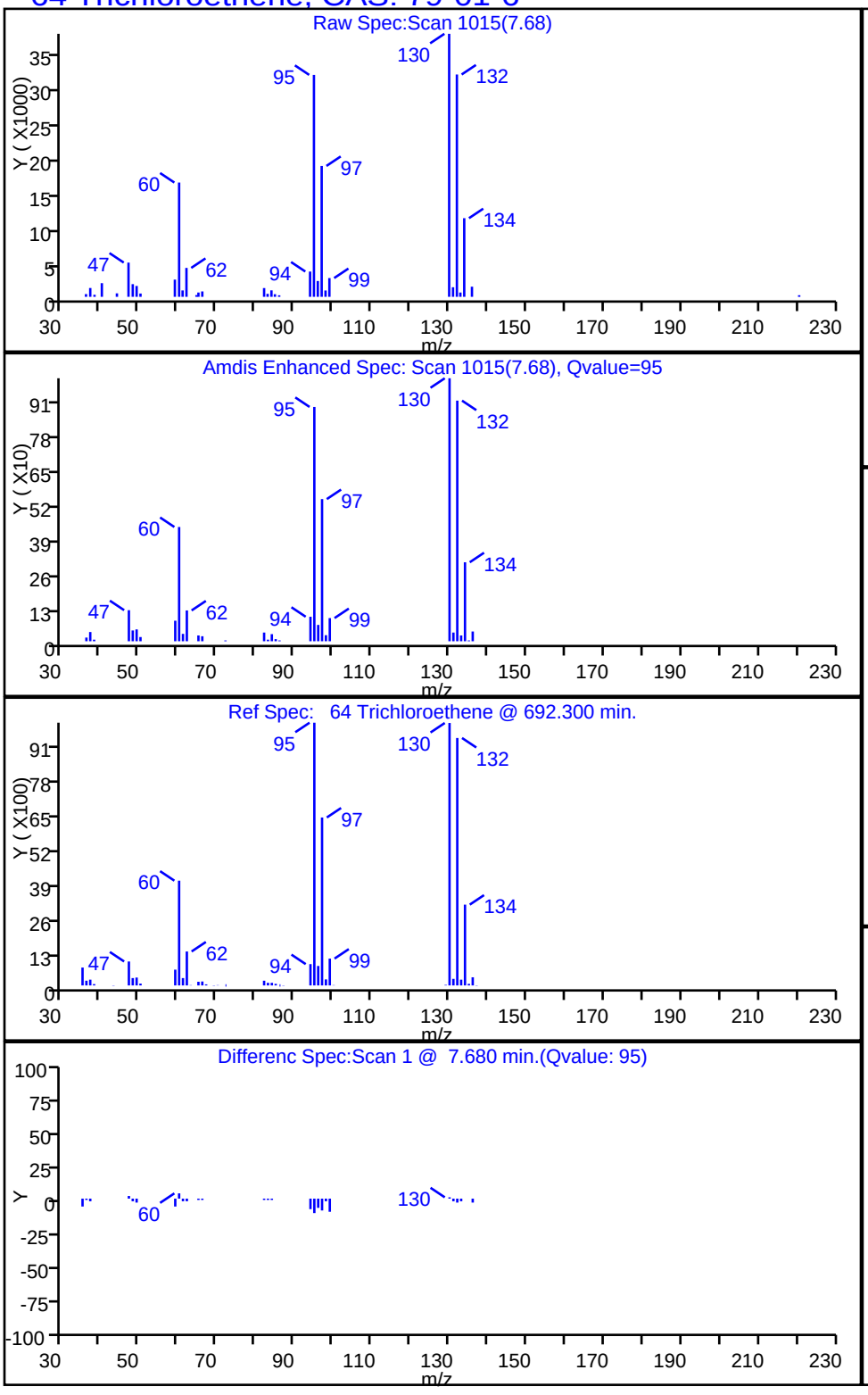
Operator ID: 001562 ALS Bottle#: 28 Worklist Smp#: 30

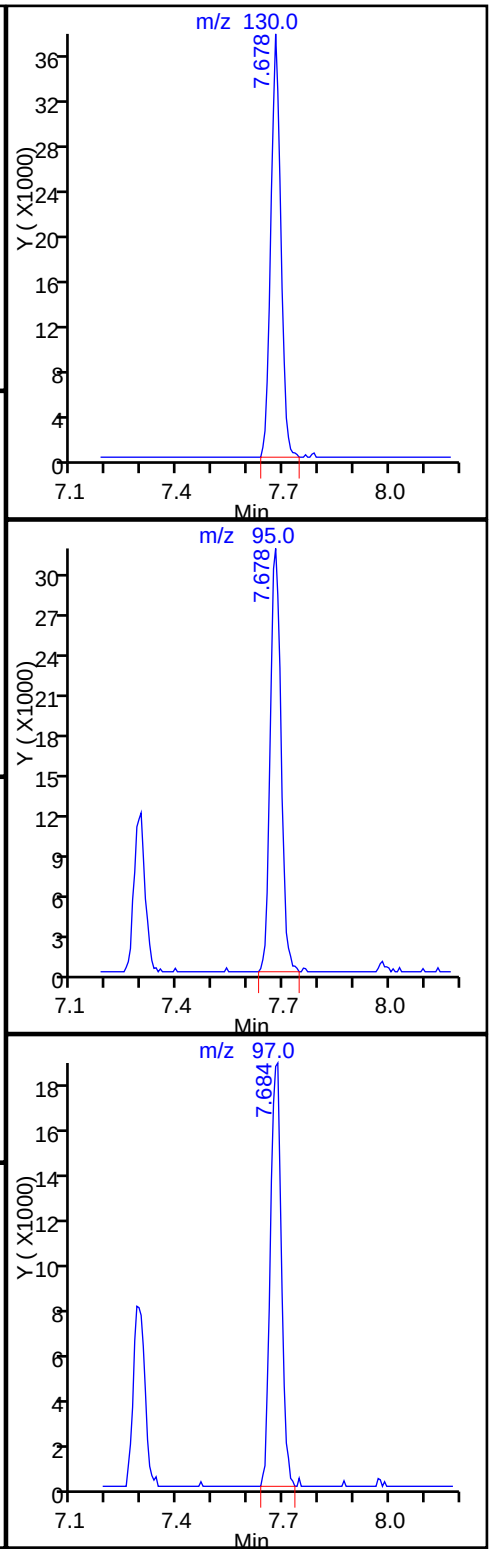
Purge Vol: 5.000 mL Dil. Factor: 200.0000

Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL

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

64 Trichloroethene, CAS: 79-01-6





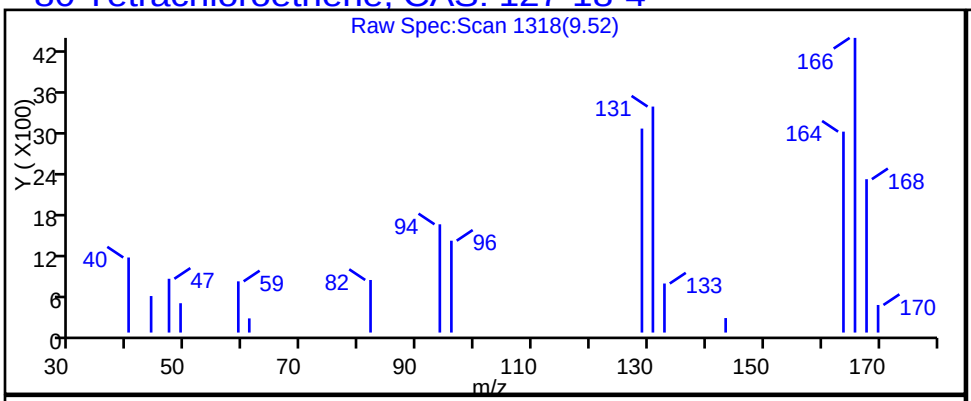
Report Date: 03-Oct-2015 08:46:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

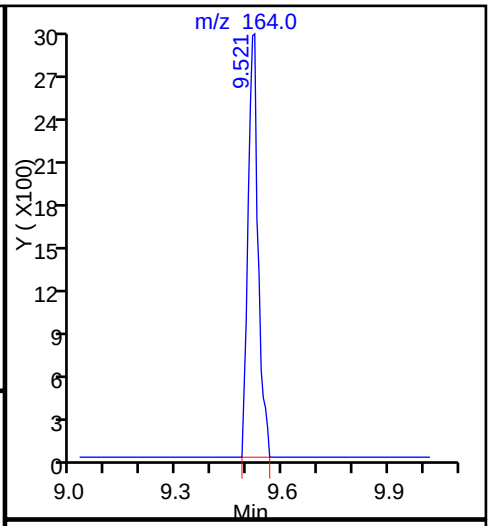
TestAmerica Pittsburgh

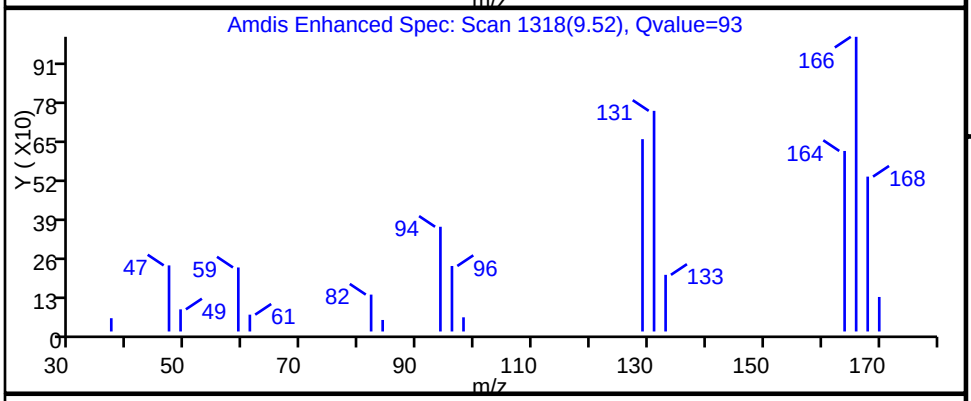
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002030.D

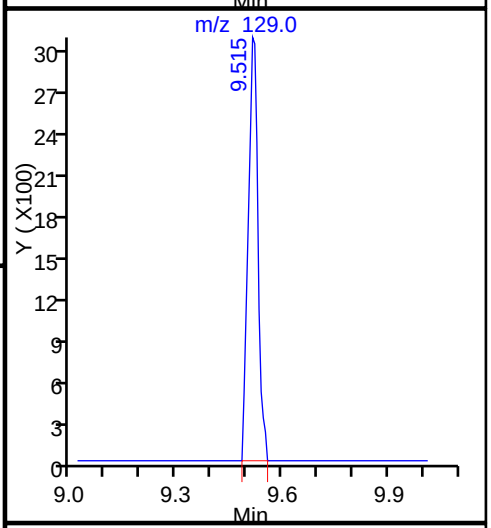
Injection Date:	02-Oct-2015 23:34:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-4	Lab Sample ID:	180-48073-4		
Client ID:	HD-MW-49S-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

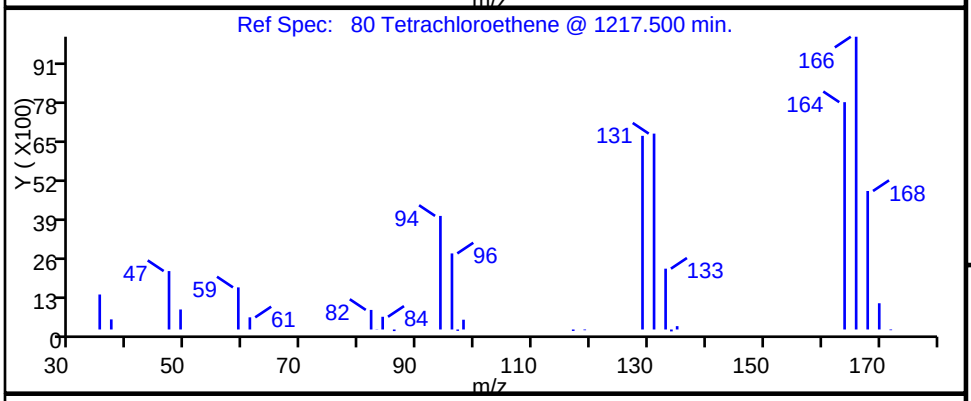
80 Tetrachloroethene, CAS: 127-18-4

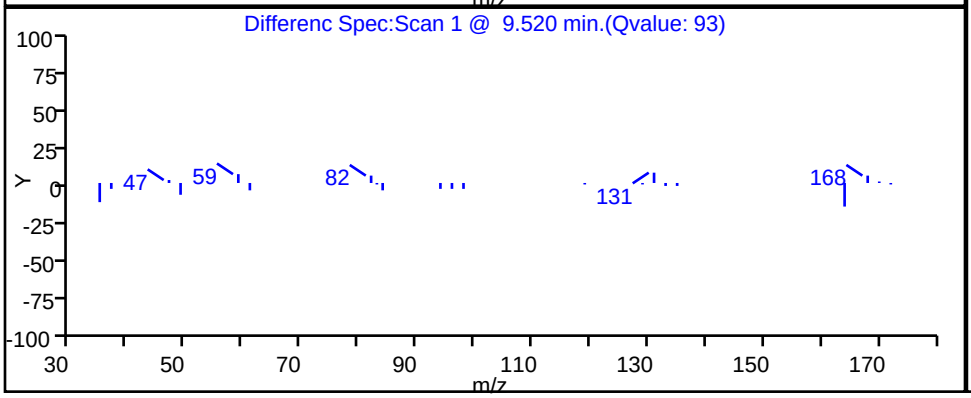


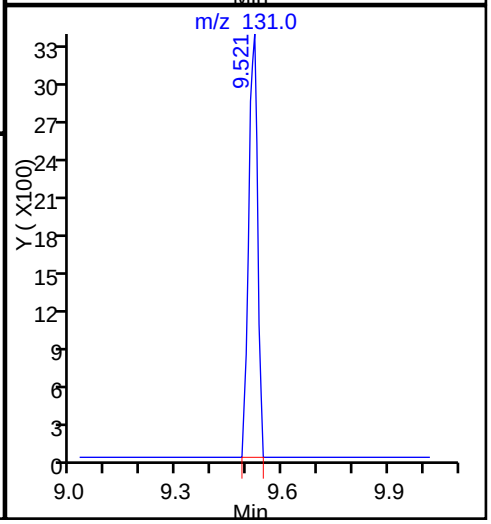












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-94-0/1-0 | Lab Sample ID: 180-48073-5

Matrix: Water | Lab File ID: 51005022.D

Analysis Method: 8260C | Date Collected: 09/23/2015 12:16

Sample wt/vol: 5(mL) | Date Analyzed: 10/05/2015 19:36

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.: 155884 | 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	13		2.5	0.57
74-83-9	Bromomethane	2.5	U	2.5	0.78
75-00-3	Chloroethane	2.5	U ^c	2.5	0.54
75-35-4	1,1-Dichloroethene	3.4		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	17		2.5	0.42
1634-04-4	Methyl tert-butyl ether	2.5	U	2.5	0.46
75-34-3	1,1-Dichloroethane	8.8		2.5	0.29
156-59-2	*cis-1,2-Dichloroethene*	*1100*	*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	2.2	J	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*	*440*	*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	33		2.5	0.37
591-78-6	2-Hexanone	13	U	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.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-94-0/1-0 | Lab Sample ID: 180-48073-5

Matrix: Water | Lab File ID: 51005022.D

Analysis Method: 8260C | Date Collected: 09/23/2015 12:16

Sample wt/vol: 5(mL) | Date Analyzed: 10/05/2015 19:36

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.: 155884 | 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)	96		64-135
2037-26-5	Toluene-d8 (Surr)	93		71-118
460-00-4	4-Bromofluorobenzene (Surr)	85		70-118
1868-53-7	Dibromofluoromethane (Surr)	107		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005022.D
Lims ID: 180-48073-C-5 Lab Sample ID: 180-48073-5
Client ID: HD-MW-94-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2015 19:36:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 2.5000
Sample Info: 180-48073-C-5, 2.5x
Misc. Info.: 180-0008828-022
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 06-Oct-2015 08:28:33 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

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

First Level Reviewer: fergusond Date: 06-Oct-2015 08:32:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.272	4.281	-0.009	0	130910	1000.0	
* 2 Fluorobenzene (IS)	96	7.295	7.292	0.003	98	330817	50.0	
* 3 Chlorobenzene-d5	119	10.392	10.388	0.004	87	84710	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.730	-0.002	95	116735	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.565	6.568	-0.003	94	86892	53.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.942	6.933	0.009	0	106587	47.8	
$ 7 Toluene-d8 (Surr)	98	8.938	8.940	-0.002	94	305168	46.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.575	-0.003	90	104252	42.3	
12 Chloromethane	50		1.774				ND	
13 Vinyl chloride	62	1.911	1.908	0.003	98	61052	25.1	
15 Bromomethane	94		2.249				ND	
16 Chloroethane	64		2.413				ND	
22 1,1-Dichloroethene	96	3.359	3.344	0.015	93	12620	6.85	
24 Acetone	43		3.441				ND	
26 Carbon disulfide	76		3.636				ND	
31 Methylene Chloride	84		4.141				ND	
33 Acrylonitrile	53		4.524				ND	
34 trans-1,2-Dichloroethene	96	4.576	4.566	0.010	96	66827	33.4	
35 Methyl tert-butyl ether	73		4.579				ND	
37 1,1-Dichloroethane	63	5.209	5.199	0.010	97	69187	17.6	
45 cis-1,2-Dichloroethene	96	5.957	5.954	0.003	77	4553765	2130.5	E
46 2-Butanone (MEK)	43		5.966				ND	
49 Chlorobromomethane	128		6.233				ND	
52 Chloroform	83		6.379				ND	
53 1,1,1-Trichloroethane	97	6.547	6.550	-0.003	95	10953	4.35	
56 Carbon tetrachloride	117		6.720				ND	
58 Benzene	78		6.945				ND	
59 1,2-Dichloroethane	62	7.021	7.024	-0.003	41	1971	0.6986	
64 Trichloroethene	130	7.678	7.675	0.003	96	1740889	872.4	E
67 1,2-Dichloropropane	63		7.949				ND	
70 1,4-Dioxane	88		8.034				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.235				ND	
74 cis-1,3-Dichloropropene	75		8.679				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.825				ND	
76 Toluene	91	9.011	9.007	0.004	33	2093	0.2496	
77 trans-1,3-Dichloropropene	75		9.257				ND	
79 1,1,2-Trichloroethane	97		9.445				ND	
80 Tetrachloroethene	164	9.522	9.518	0.004	98	107737	66.2	
82 2-Hexanone	43		9.658				ND	
84 Chlorodibromomethane	129		9.823				ND	
85 Ethylene Dibromide	107		9.932				ND	
87 Chlorobenzene	112		10.419				ND	
89 1,1,1,2-Tetrachloroethane	131		10.510				ND	
90 Ethylbenzene	106		10.522				ND	
91 m-Xylene & p-Xylene	106		10.650				ND	
92 o-Xylene	106		11.033				ND	
93 Styrene	104		11.051				ND	
94 Bromoform	173		11.228				ND	
99 1,1,2,2-Tetrachloroethane	83		11.708				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

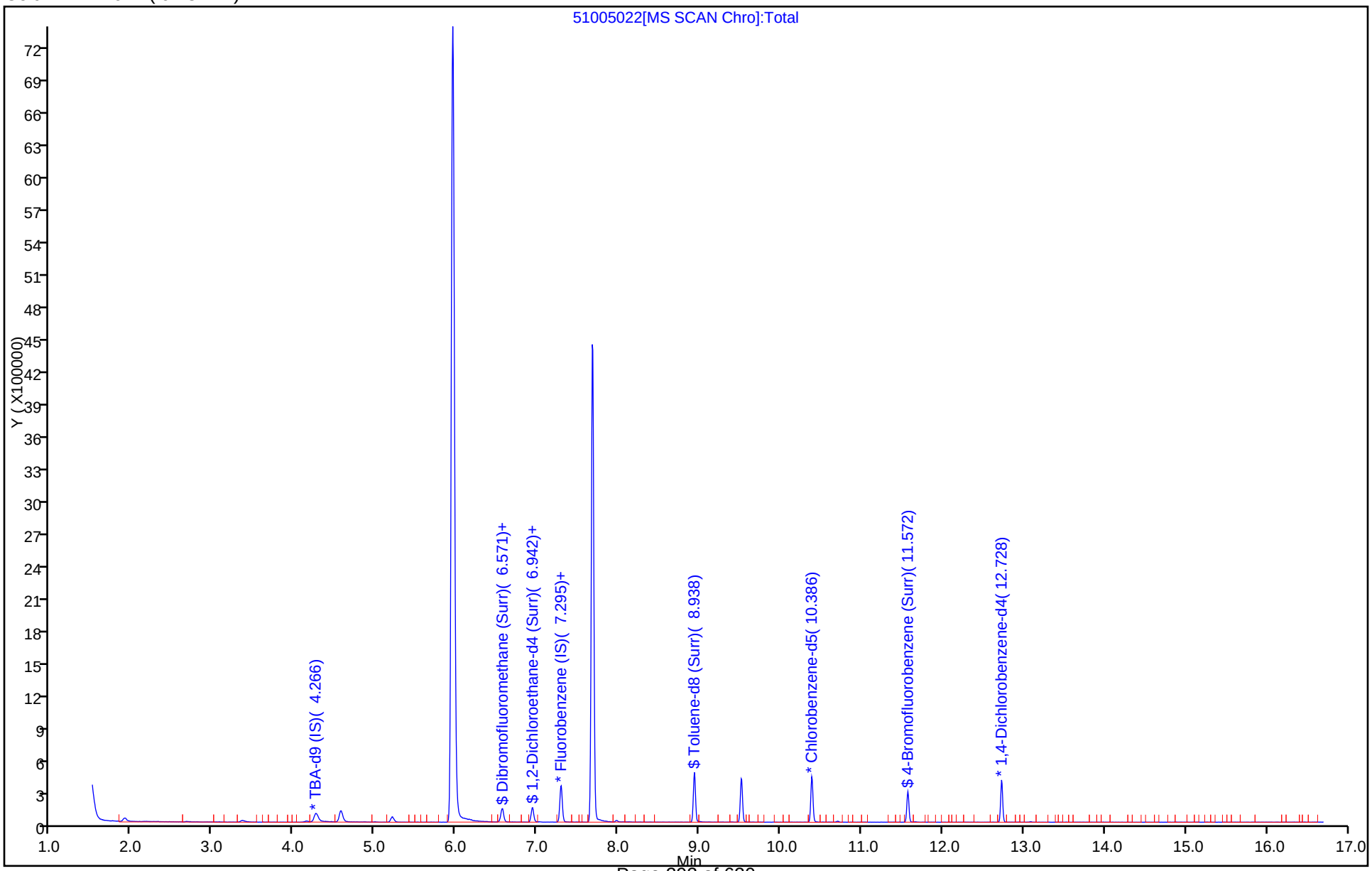
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 06-Oct-2015 08:32:03 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005022.D				
Injection Date:	05-Oct-2015 19:36:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48073-C-5	Lab Sample ID:	180-48073-5	Worklist Smp#:	22
Client ID:	HD-MW-94-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	2.5000	ALS Bottle#:	22
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)

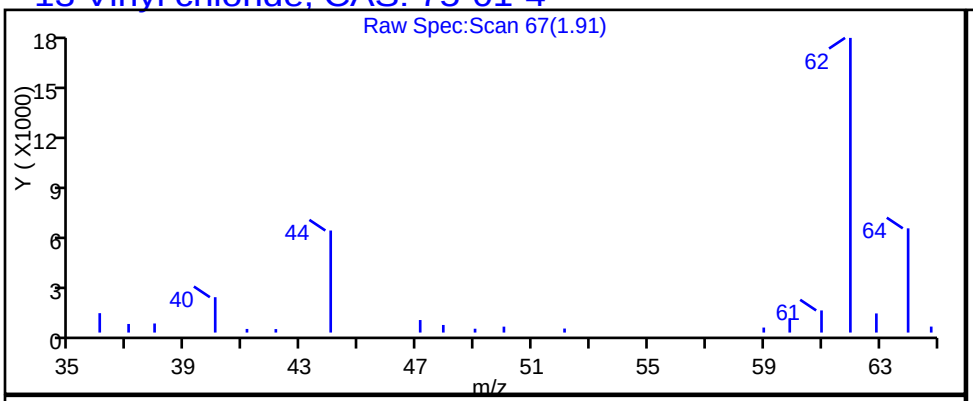


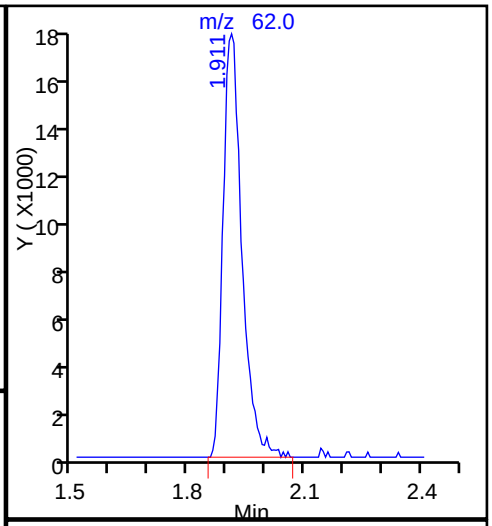
Report Date: 06-Oct-2015 08:32:03 Chrom Revision: 2.2 08-Sep-2015 13:41:46

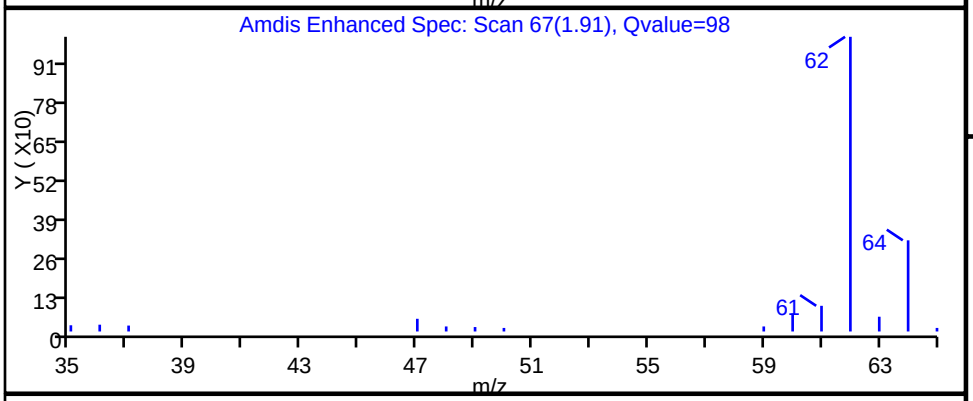
TestAmerica Pittsburgh

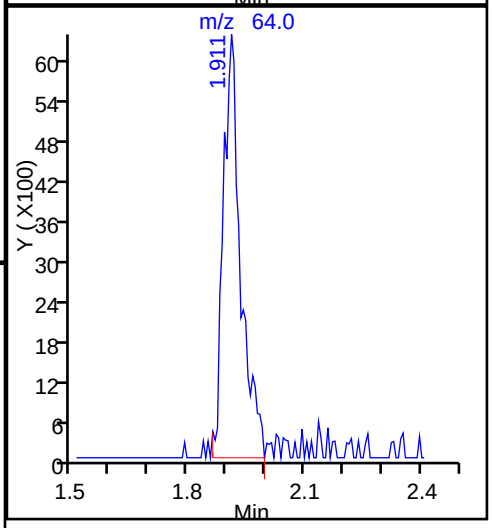
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005022.D		
Injection Date:	05-Oct-2015 19:36:30	Instrument ID:	CHHP5
Lims ID:	180-48073-C-5	Lab Sample ID:	180-48073-5
Client ID:	HD-MW-94-0/1-0		
Operator ID:	001562	ALS Bottle#:	22 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	2.5000
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

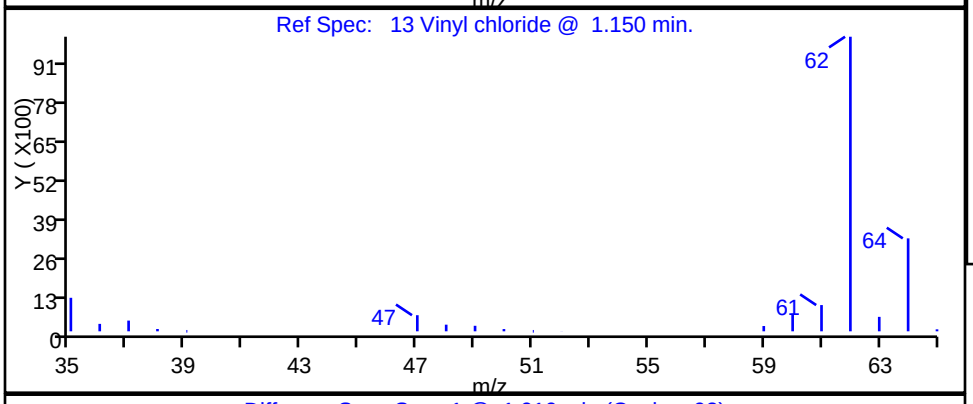
13 Vinyl chloride, CAS: 75-01-4

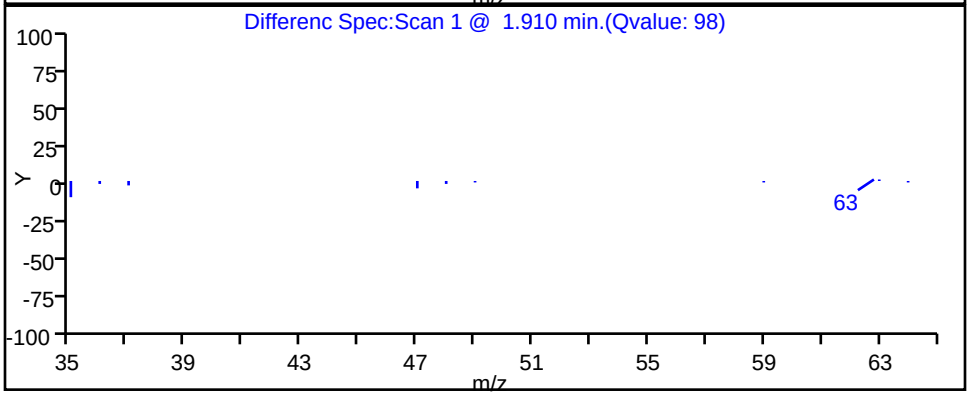












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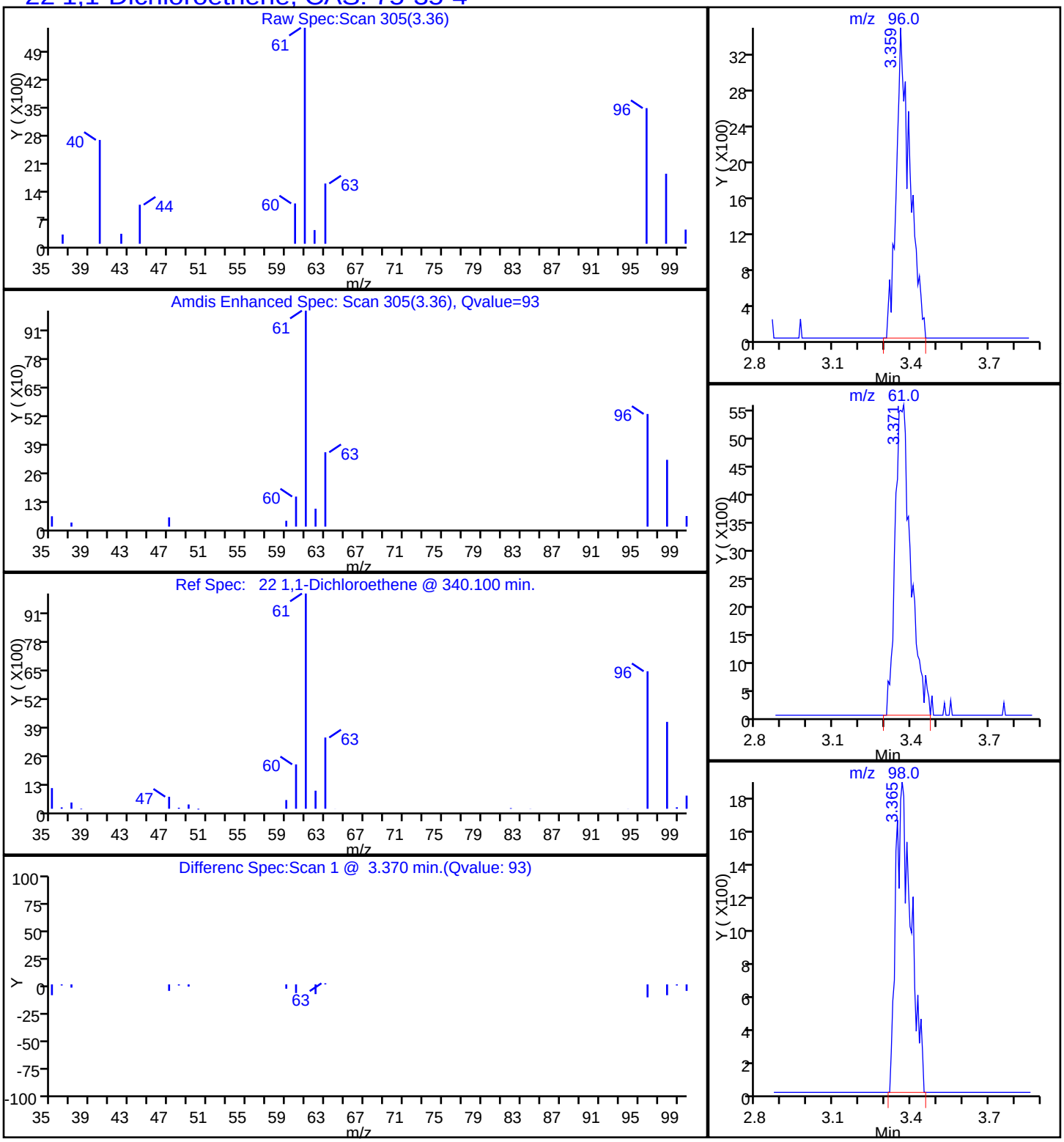
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005022.D

Injection Date:	05-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

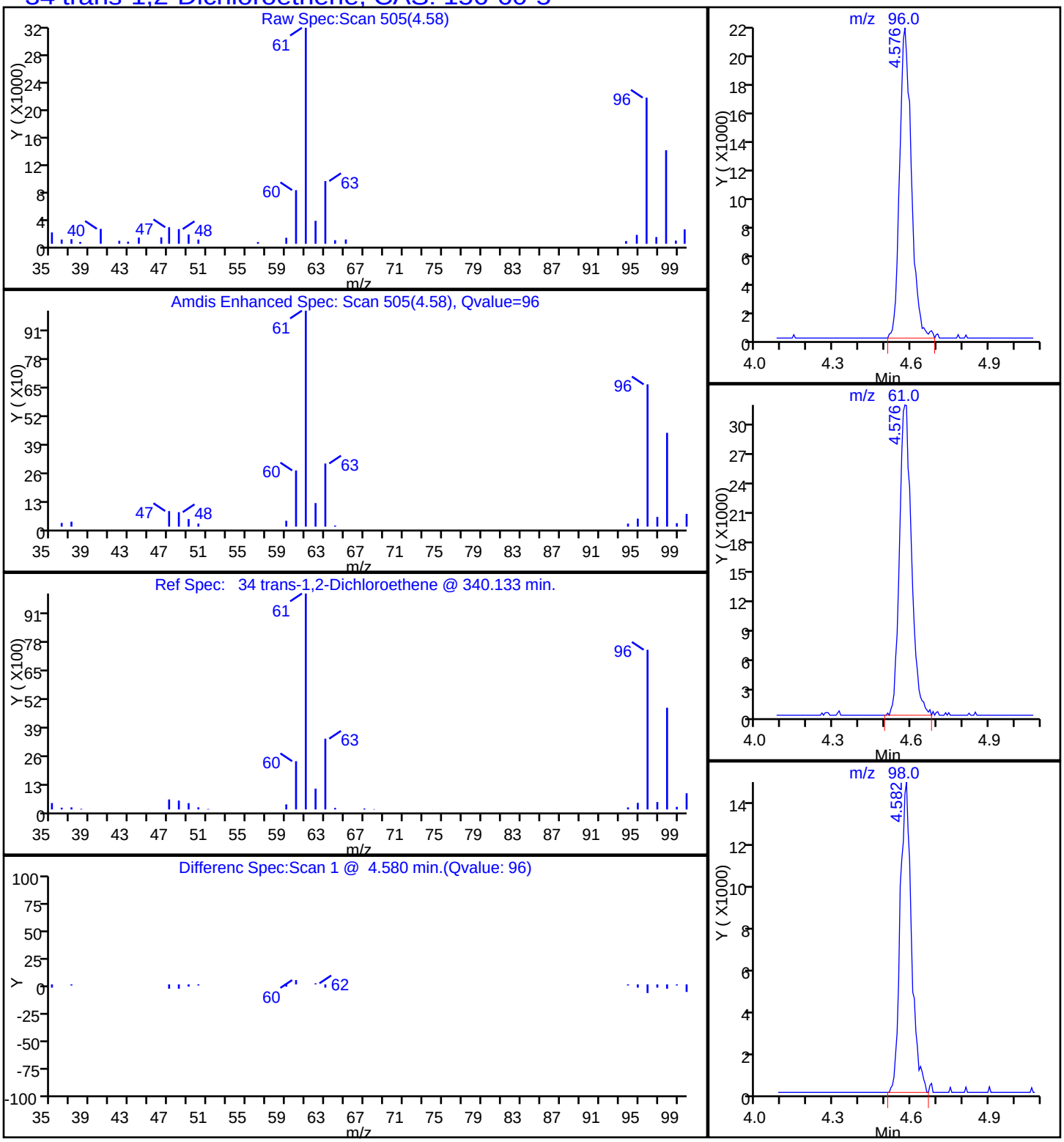


Report Date: 06-Oct-2015 08:32:03 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005022.D				
Injection Date:	05-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

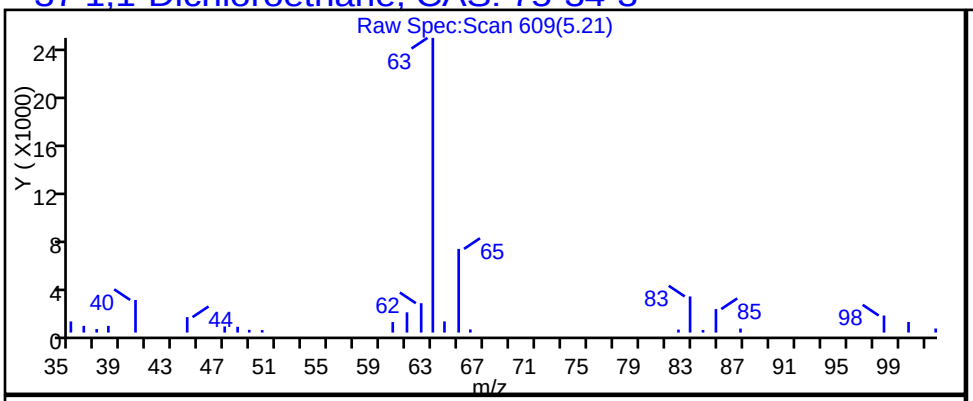


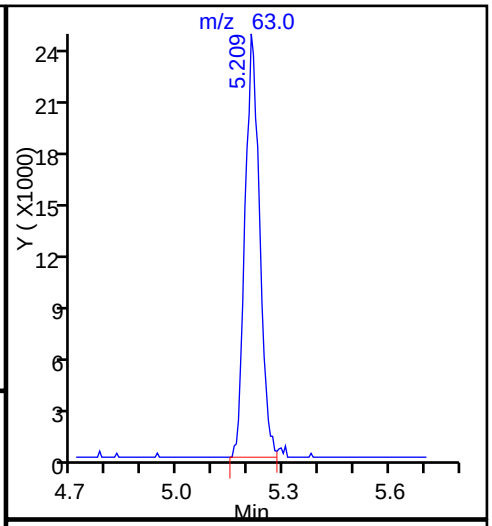
Report Date: 06-Oct-2015 08:32:03 Chrom Revision: 2.2 08-Sep-2015 13:41:46

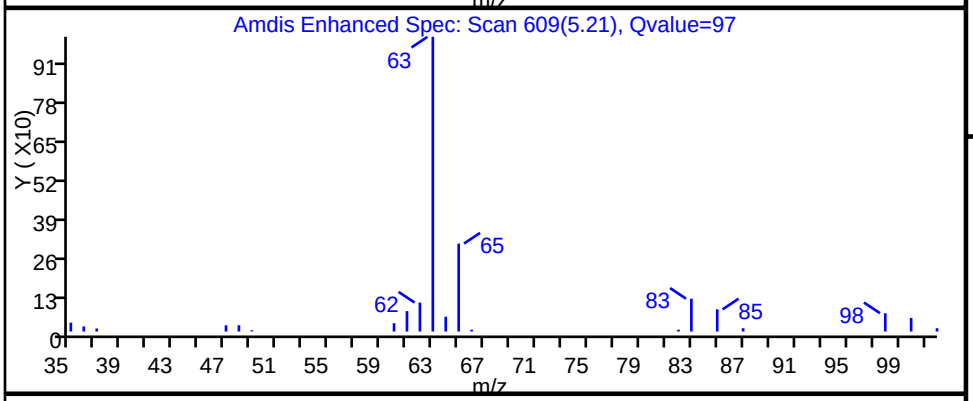
TestAmerica Pittsburgh

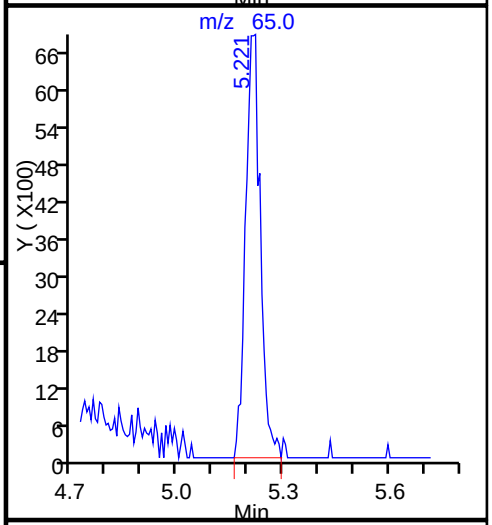
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005022.D		
Injection Date:	05-Oct-2015 19:36:30	Instrument ID:	CHHP5
Lims ID:	180-48073-C-5	Lab Sample ID:	180-48073-5
Client ID:	HD-MW-94-0/1-0		
Operator ID:	001562	ALS Bottle#:	22 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	2.5000
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

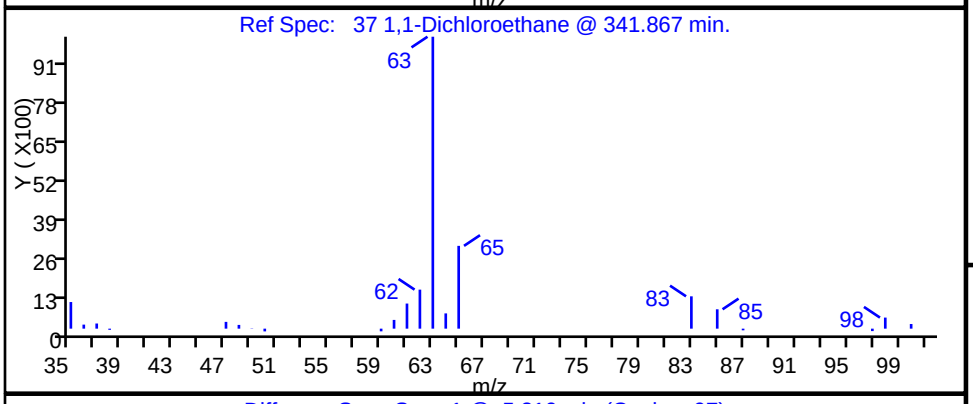
37 1,1-Dichloroethane, CAS: 75-34-3

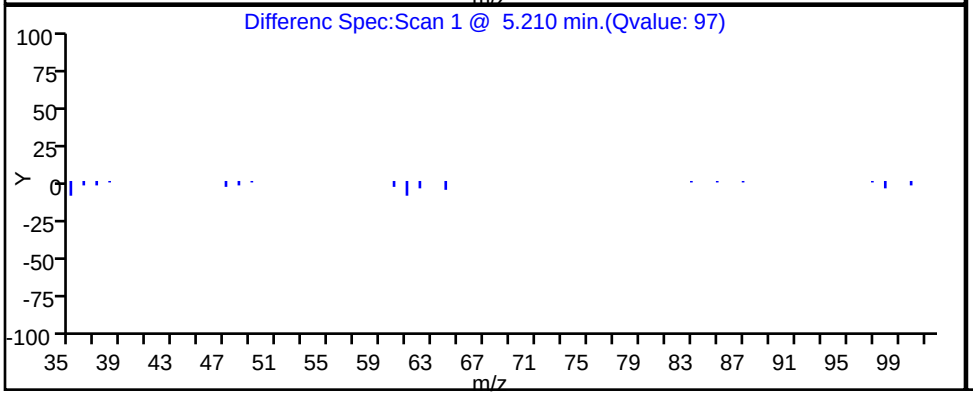


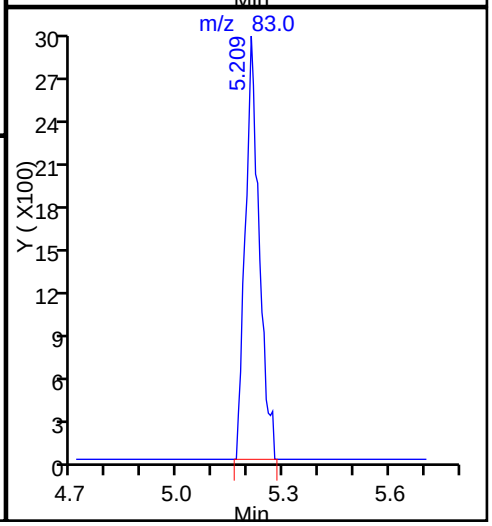












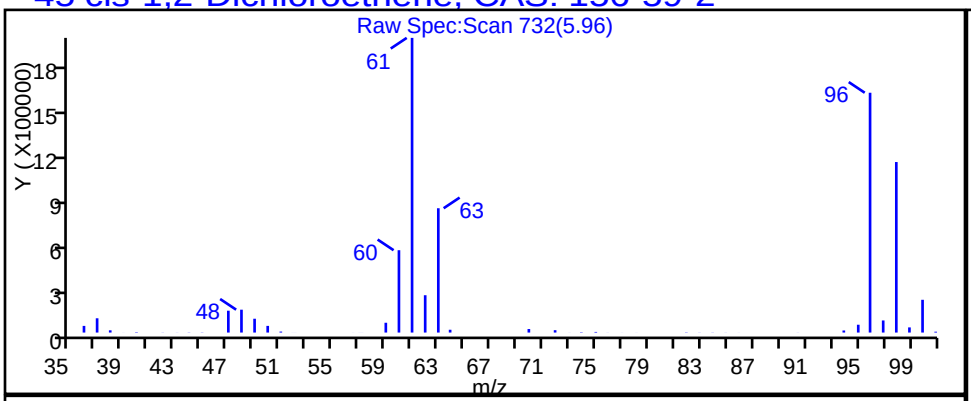
Report Date: 06-Oct-2015 08:32:03 Chrom Revision: 2.2 08-Sep-2015 13:41:46

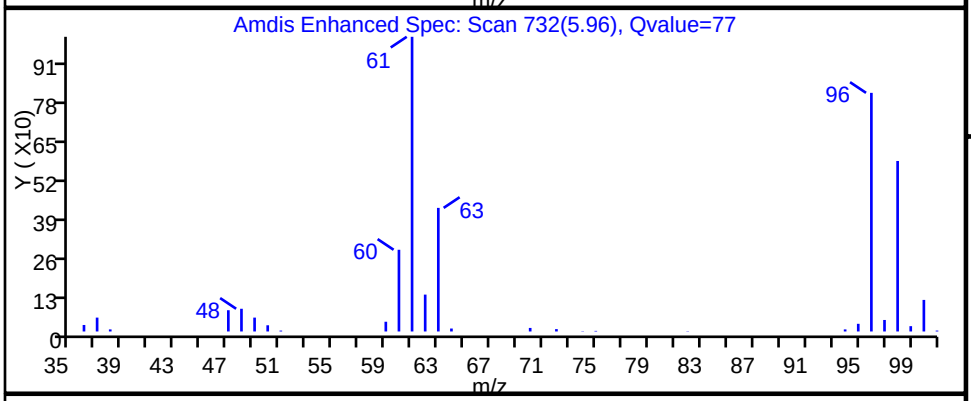
TestAmerica Pittsburgh

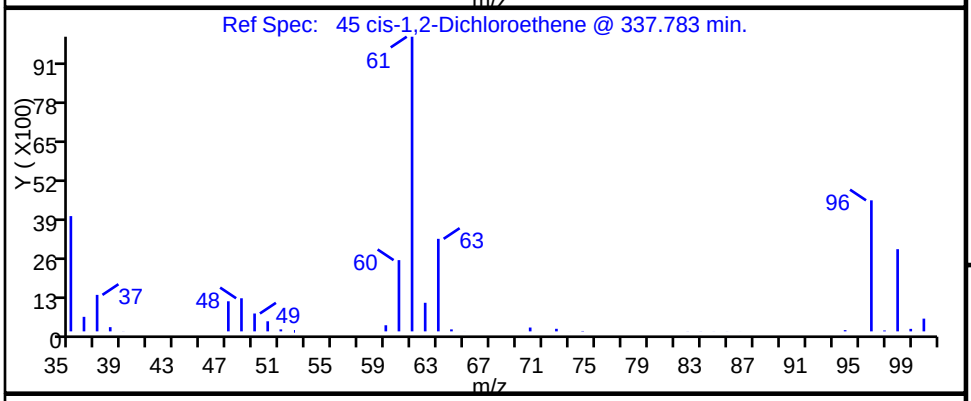
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005022.D

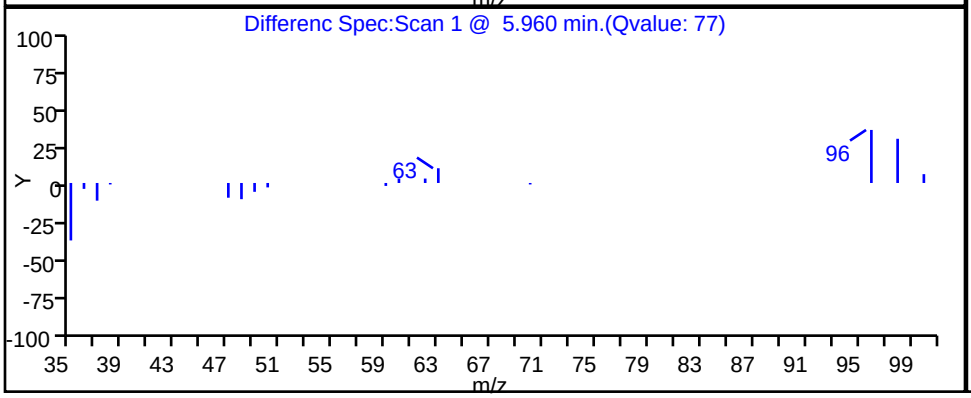
Injection Date:	05-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

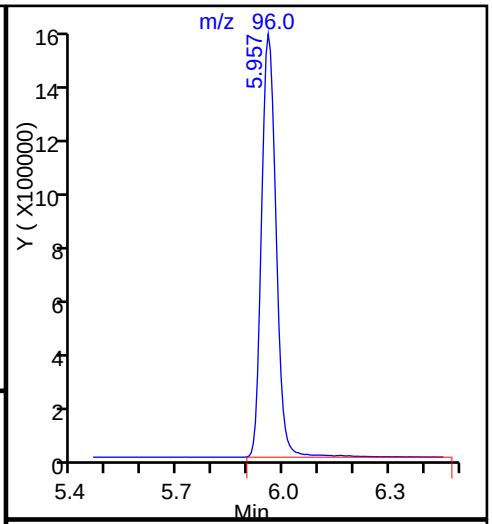
45 cis-1,2-Dichloroethene, CAS: 156-59-2

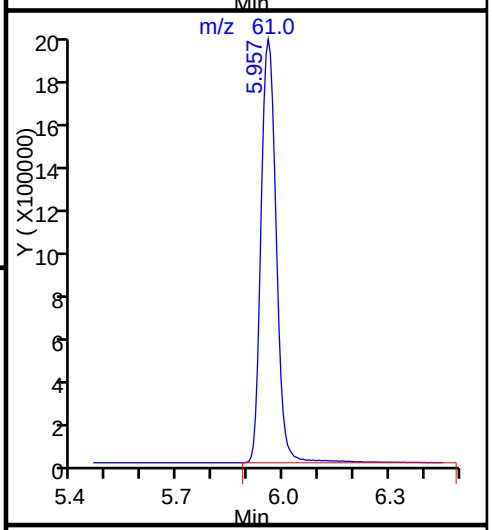


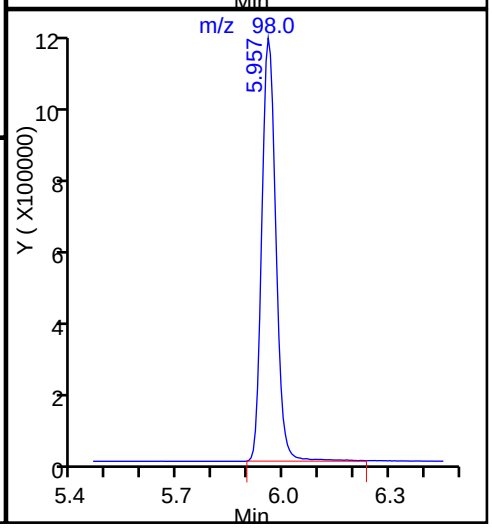










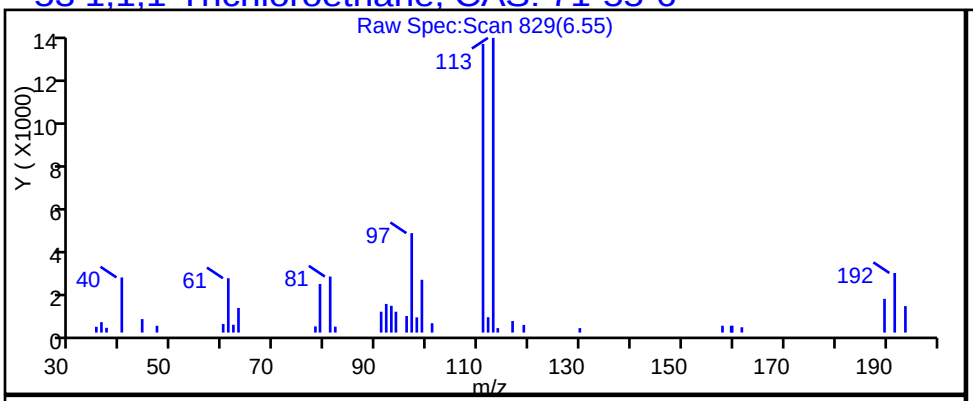


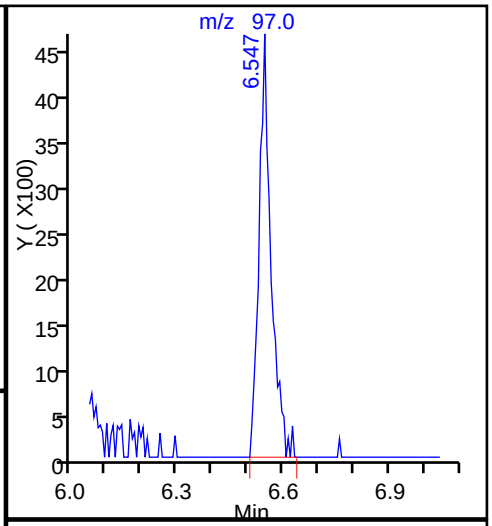
Report Date: 06-Oct-2015 08:32:03 Chrom Revision: 2.2 08-Sep-2015 13:41:46

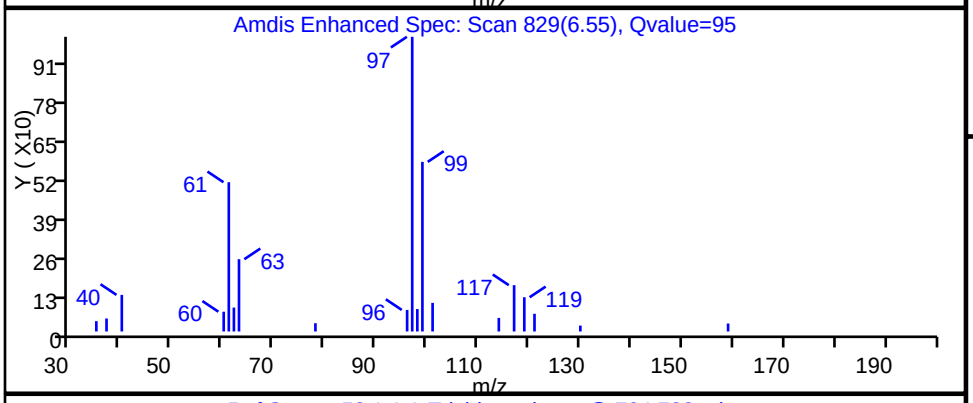
TestAmerica Pittsburgh

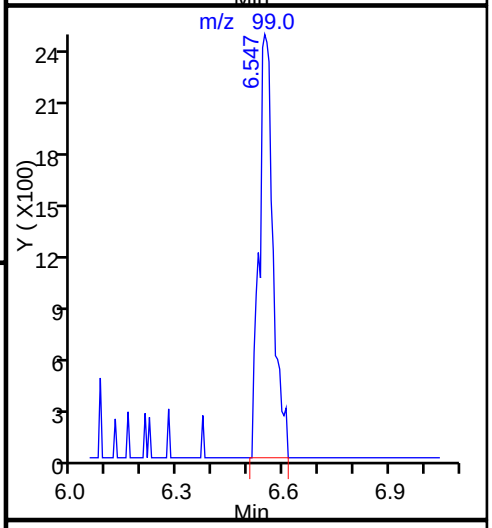
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005022.D				
Injection Date:	05-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

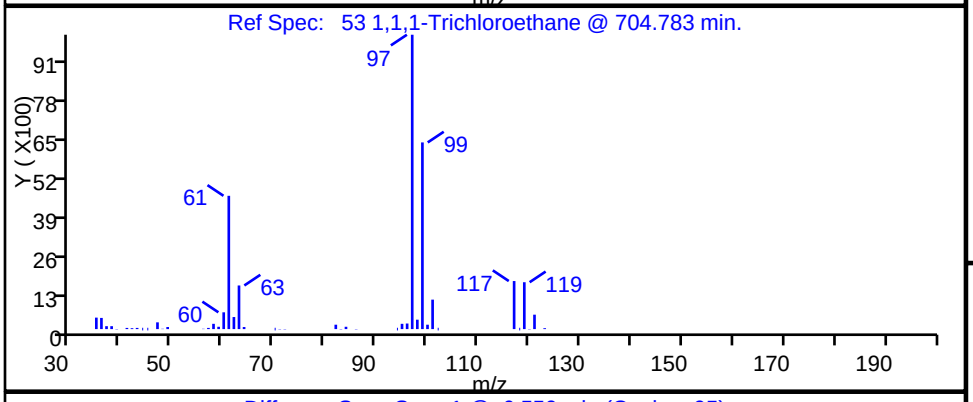
53 1,1,1-Trichloroethane, CAS: 71-55-6

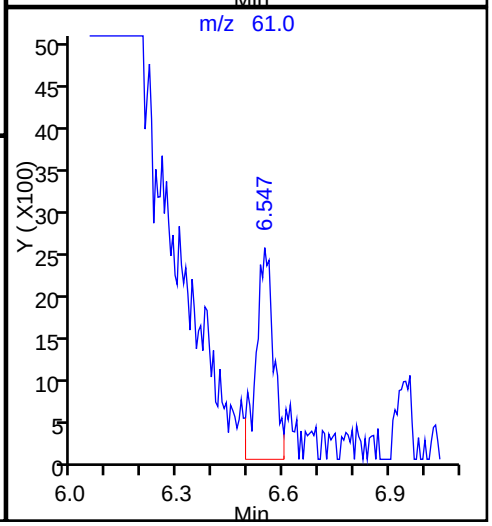


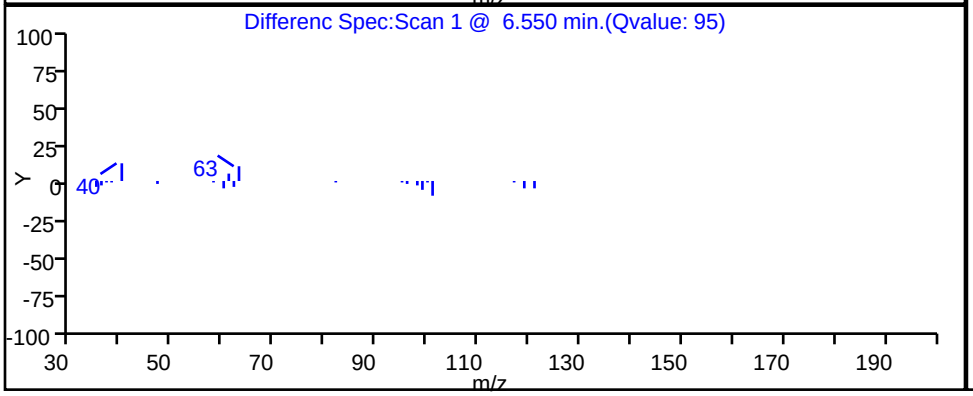












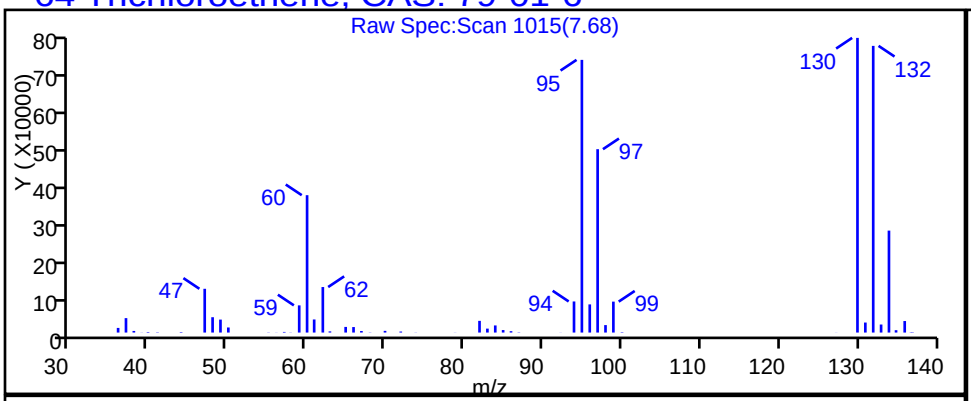
Report Date: 06-Oct-2015 08:32:04 Chrom Revision: 2.2 08-Sep-2015 13:41:46

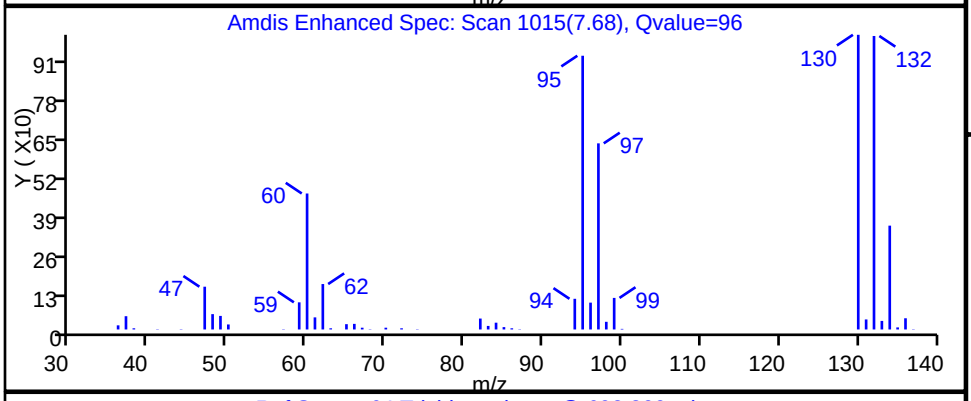
TestAmerica Pittsburgh

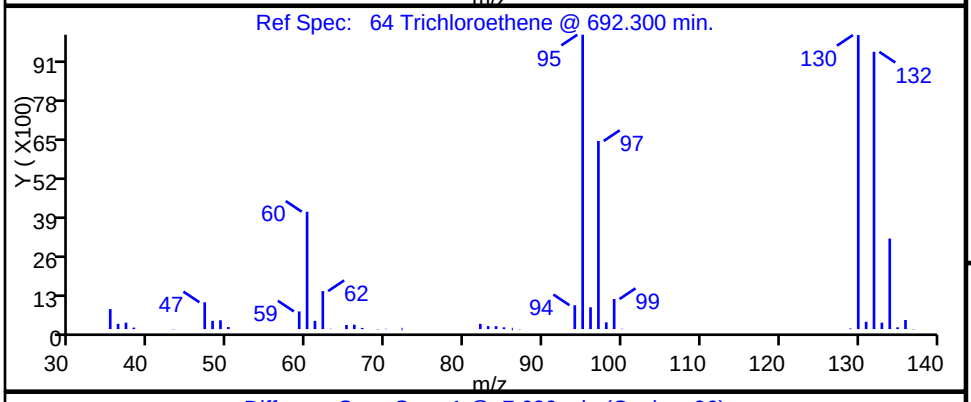
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005022.D

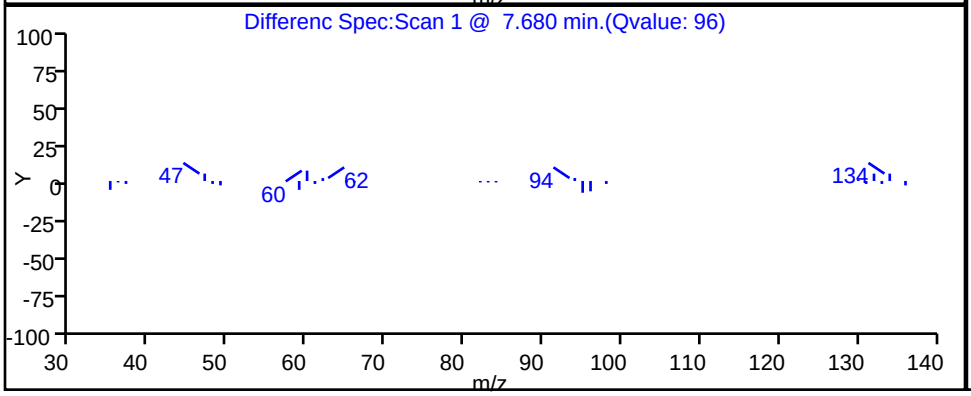
Injection Date:	05-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

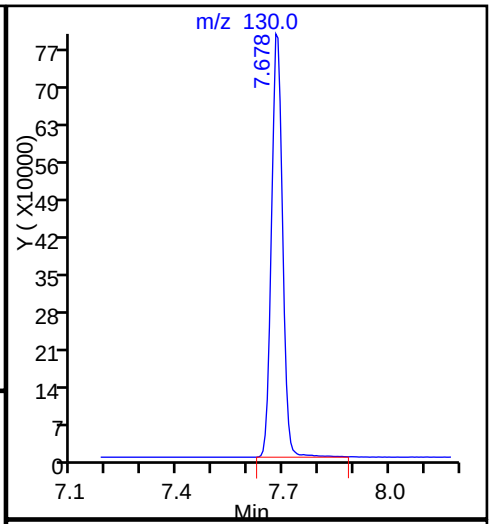
64 Trichloroethene, CAS: 79-01-6

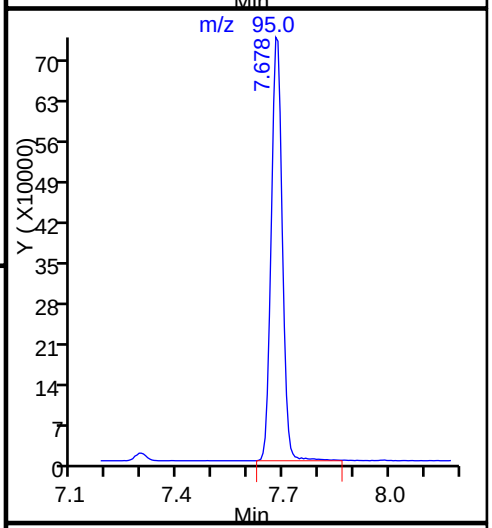


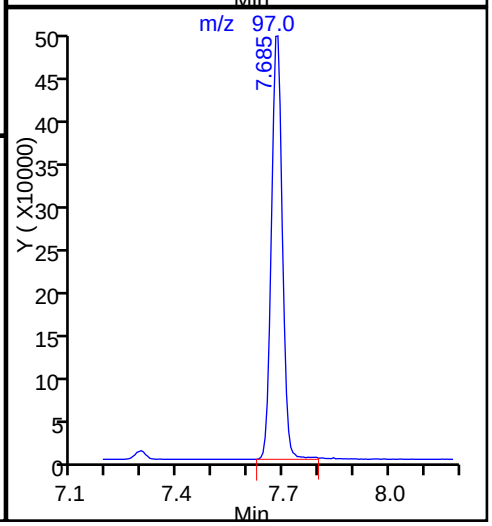












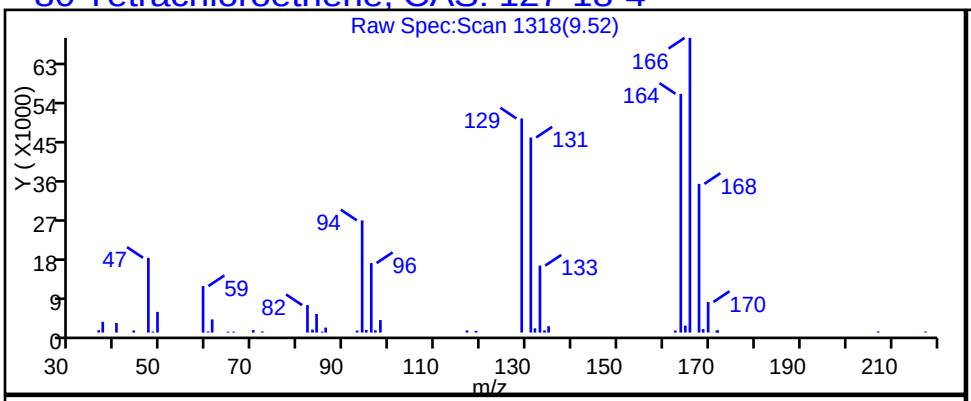
Report Date: 06-Oct-2015 08:32:04 Chrom Revision: 2.2 08-Sep-2015 13:41:46

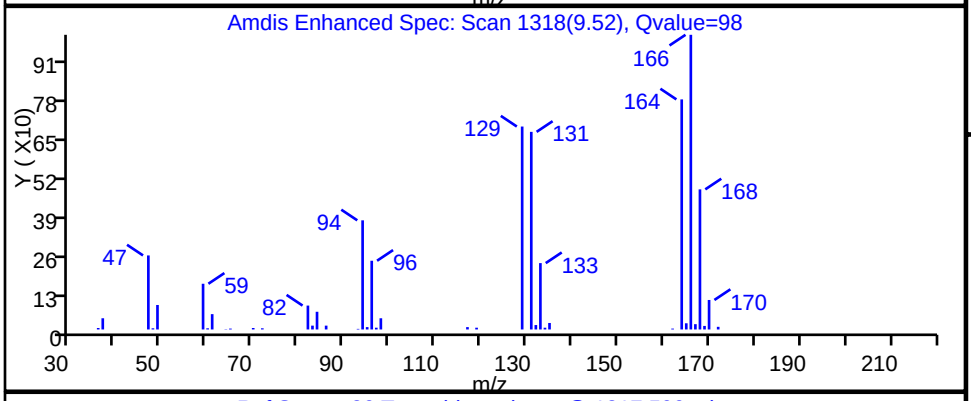
TestAmerica Pittsburgh

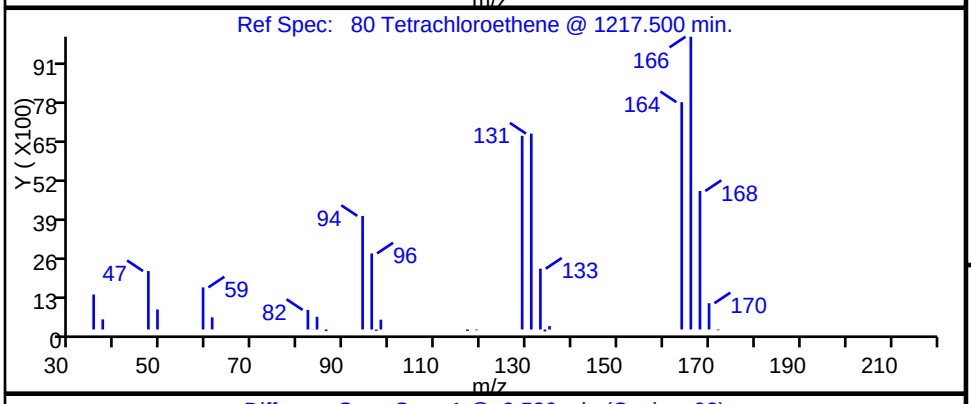
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005022.D

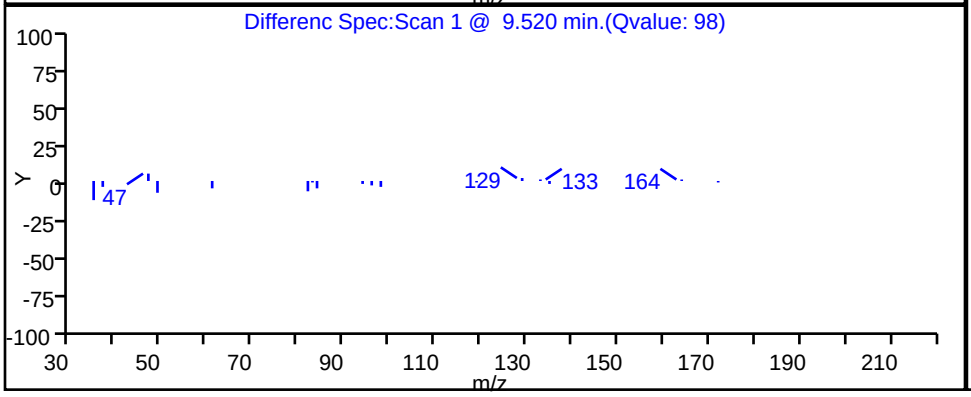
Injection Date:	05-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

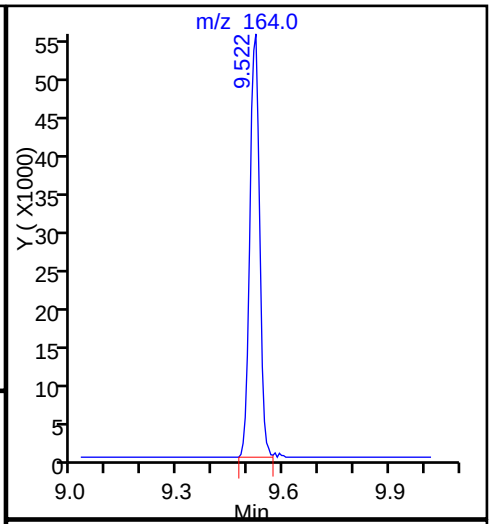
80 Tetrachloroethene, CAS: 127-18-4

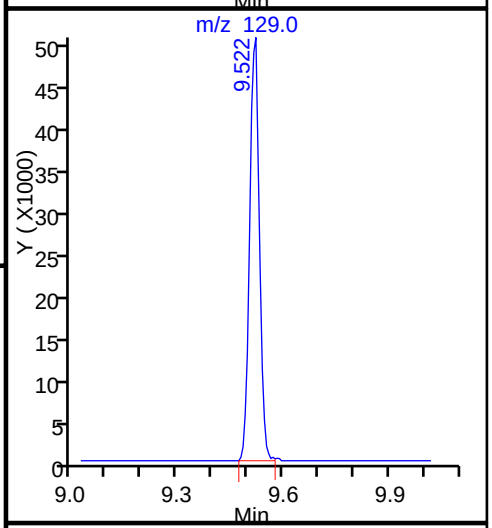


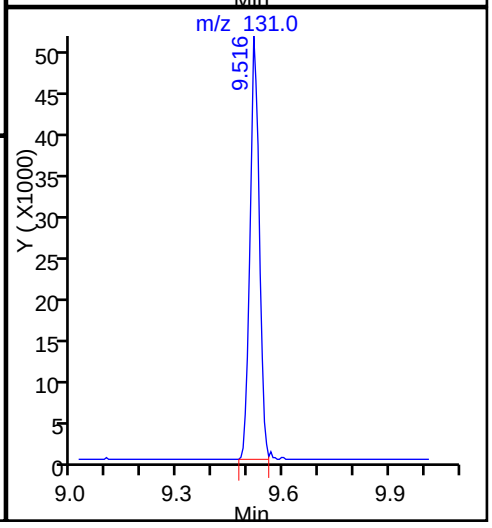












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-94-0/1-0 DL | Lab Sample ID: 180-48073-5 DL

Matrix: Water | Lab File ID: 51001020.D

Analysis Method: 8260C | Date Collected: 09/23/2015 12:16

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 20:12

Soil Aliquot Vol: | Dilution Factor: 25

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

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

Analysis Batch No.: 155577 | 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	14	J	25	5.7
74-83-9	Bromomethane	25	U	25	7.8
75-00-3	Chloroethane	25	U	25	5.4
75-35-4	1,1-Dichloroethene	25	U	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	18	J	25	4.2
1634-04-4	Methyl tert-butyl ether	25	U	25	4.6
75-34-3	1,1-Dichloroethane	9.3	J	25	2.9
156-59-2	cis-1,2-Dichloroethene	1200		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	450		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 ^c	25	4.7
108-10-1	4-Methyl-2-pentanone (MIBK)	130	U ^c	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	36		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.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-94-0/1-0 DL | Lab Sample ID: 180-48073-5 DL

Matrix: Water | Lab File ID: 51001020.D

Analysis Method: 8260C | Date Collected: 09/23/2015 12:16

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 20:12

Soil Aliquot Vol: | Dilution Factor: 25

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

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

Analysis Batch No.: 155577 | 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)	94		64-135
2037-26-5	Toluene-d8 (Surr)	94		71-118
460-00-4	4-Bromofluorobenzene (Surr)	85		70-118
1868-53-7	Dibromofluoromethane (Surr)	106		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001020.D
Lims ID: 180-48073-B-5 Lab Sample ID: 180-48073-5
Client ID: HD-MW-94-0/1-0
Sample Type: Client
Inject. Date: 01-Oct-2015 20:12:30 ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 25.0000
Sample Info: 180-48073-B-5, 25x
Misc. Info.: 180-0008778-020
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 02-Oct-2015 07:55:22 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: fergusond Date: 02-Oct-2015 07:55:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.263	4.278	-0.015	0	106028	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.289	0.003	98	298579	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.386	0.003	87	75266	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.728	0.003	96	104354	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.568	6.559	0.009	93	77675	53.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.939	6.936	0.003	0	94786	47.1	
$ 7 Toluene-d8 (Surr)	98	8.935	8.938	-0.003	94	271799	46.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.569	11.572	-0.003	91	93463	42.7	
12 Chloromethane	50		1.759				ND	
13 Vinyl chloride	62	1.896	1.905	-0.009	98	6052	2.75	
15 Bromomethane	94		2.234				ND	
16 Chloroethane	64		2.386				ND	
22 1,1-Dichloroethene	96	3.350	3.347	0.003	0	1093	0.6573	M
24 Acetone	43		3.438				ND	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.138				ND	
33 Acrylonitrile	53		4.521				ND	
34 trans-1,2-Dichloroethene	96	4.573	4.564	0.009	93	6520	3.61	
35 Methyl tert-butyl ether	73		4.576				ND	
37 1,1-Dichloroethane	63	5.212	5.196	0.016	93	6598	1.85	
45 cis-1,2-Dichloroethene	96	5.954	5.951	0.003	82	471108	244.2	
46 2-Butanone (MEK)	43		5.957				ND	
49 Chlorobromomethane	128		6.231				ND	
52 Chloroform	83		6.383				ND	
53 1,1,1-Trichloroethane	97		6.541				ND	
56 Carbon tetrachloride	117		6.711				ND	
58 Benzene	78		6.942				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130	7.675	7.679	-0.004	95	162706	90.3	
67 1,2-Dichloropropane	63		7.952				ND	
70 1,4-Dioxane	88		8.025				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.232				ND	
74 cis-1,3-Dichloropropene	75		8.676				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
76 Toluene	91		9.005				ND	
77 trans-1,3-Dichloropropene	75		9.254				ND	
79 1,1,2-Trichloroethane	97		9.449				ND	
80 Tetrachloroethene	164	9.519	9.516	0.003	91	10453	7.23	
82 2-Hexanone	43		9.656				ND	
84 Chlorodibromomethane	129		9.814				ND	
85 Ethylene Dibromide	107		9.929				ND	
87 Chlorobenzene	112		10.416				ND	
89 1,1,1,2-Tetrachloroethane	131		10.507				ND	
90 Ethylbenzene	106		10.513				ND	
91 m-Xylene & p-Xylene	106		10.647				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.049				ND	
94 Bromoform	173		11.231				ND	
99 1,1,2,2-Tetrachloroethane	83		11.706				ND	
S 133 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

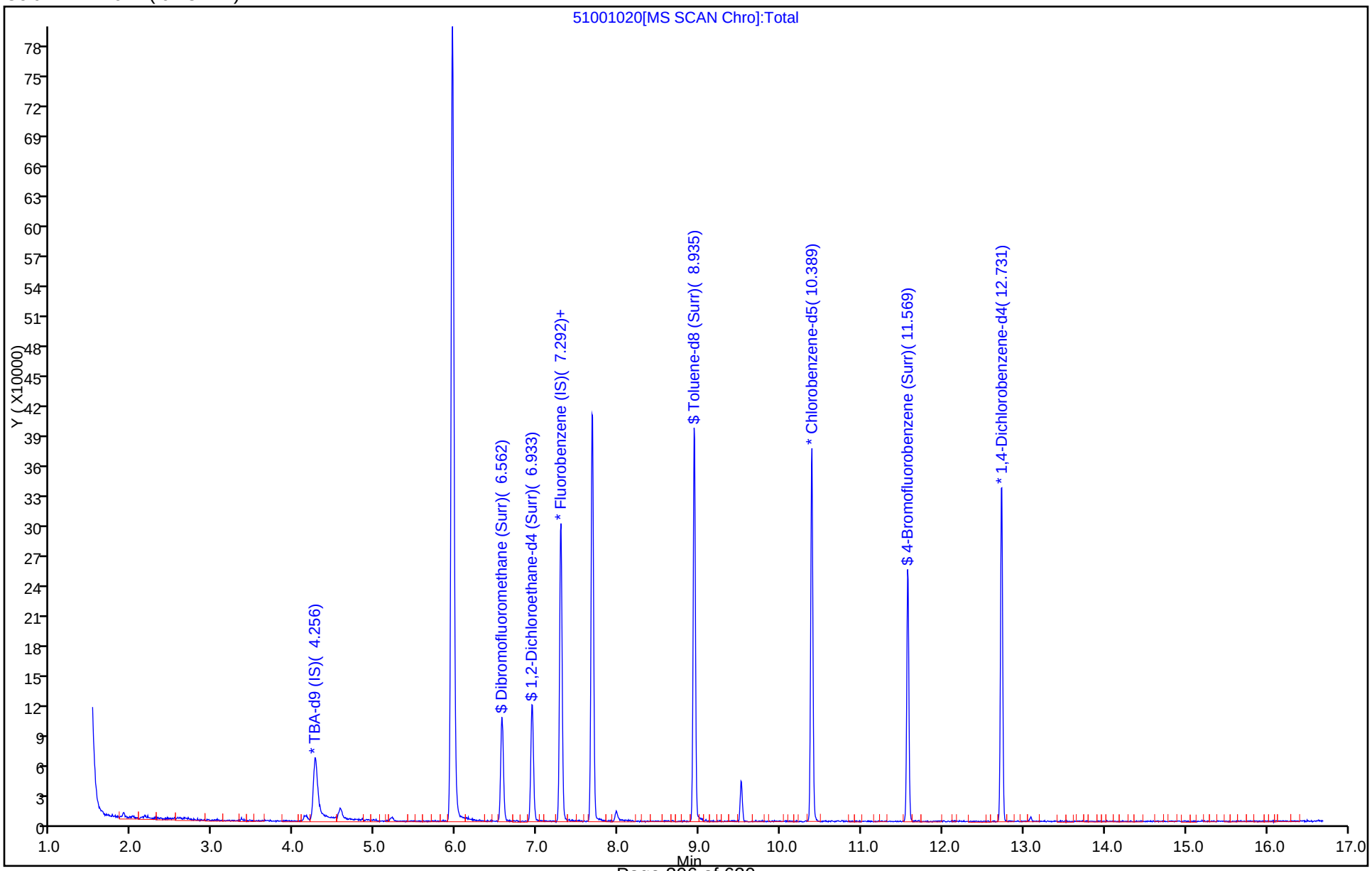
Report Date: 02-Oct-2015 07:55:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001020.D

Injection Date:	01-Oct-2015 20:12:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48073-B-5	Lab Sample ID:	180-48073-5	Worklist Smp#:	20
Client ID:	HD-MW-94-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	25.0000	ALS Bottle#:	17
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Report Date: 02-Oct-2015 07:55:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001020.D

Injection Date: 01-Oct-2015 20:12:30 Instrument ID: CHHP5

Lims ID: 180-48073-B-5 Lab Sample ID: 180-48073-5

Client ID: HD-MW-94-0/1-0

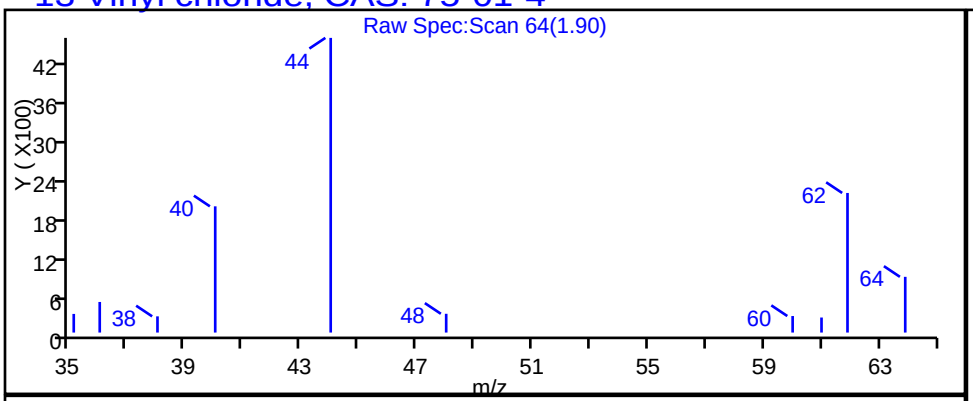
Operator ID: 001562 ALS Bottle#: 17 Worklist Smp#: 20

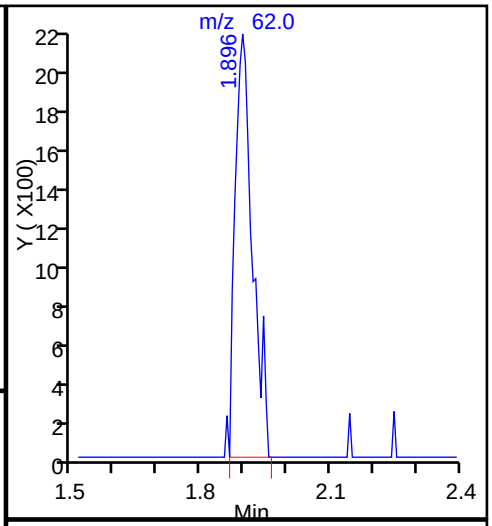
Purge Vol: 5.000 mL Dil. Factor: 25.0000

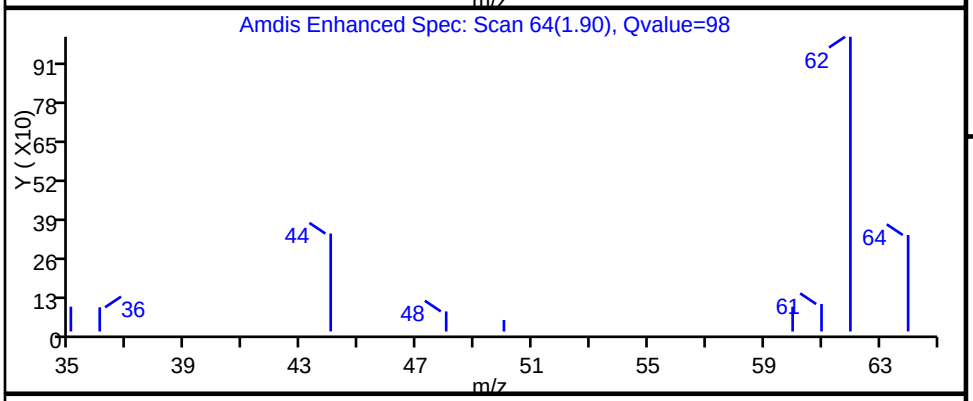
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL

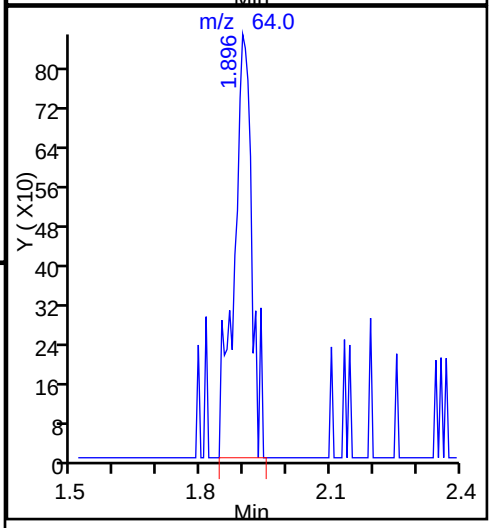
Column: DB-624 (0.18 mm) Detector MS SCAN

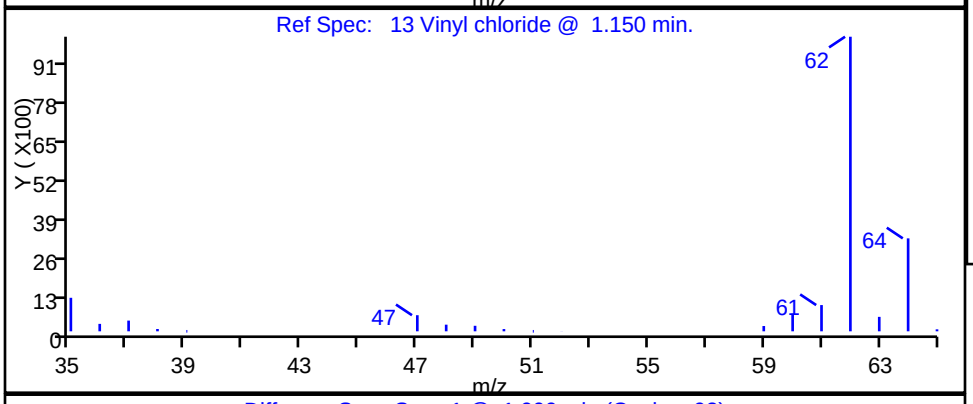
13 Vinyl chloride, CAS: 75-01-4

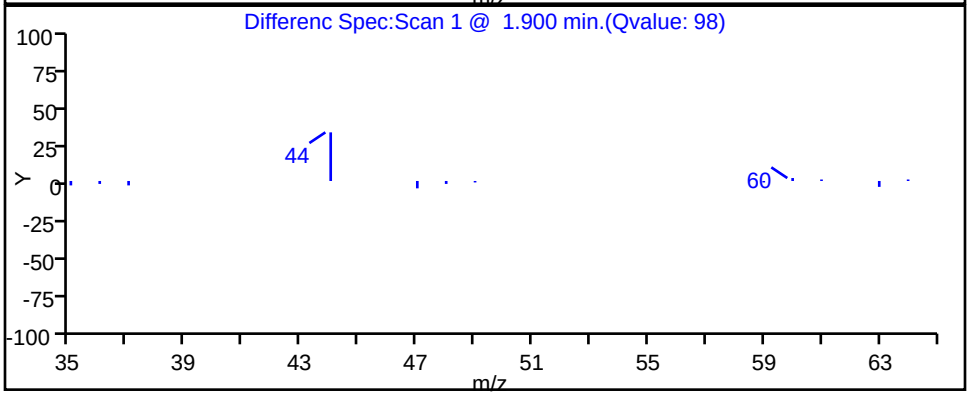












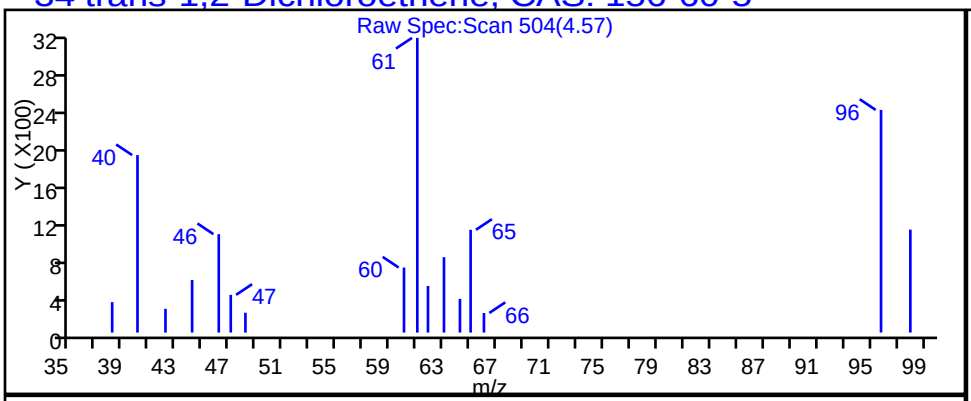
Report Date: 02-Oct-2015 07:55:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

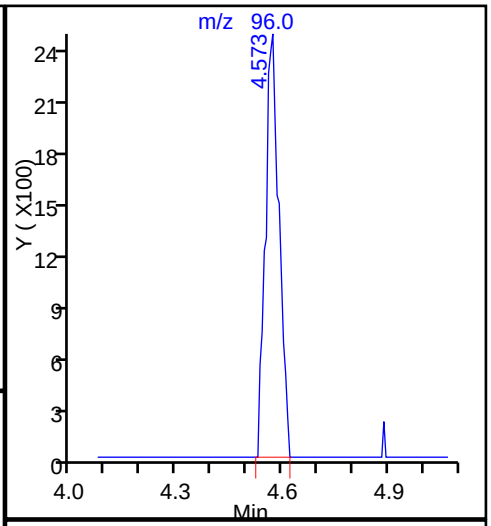
TestAmerica Pittsburgh

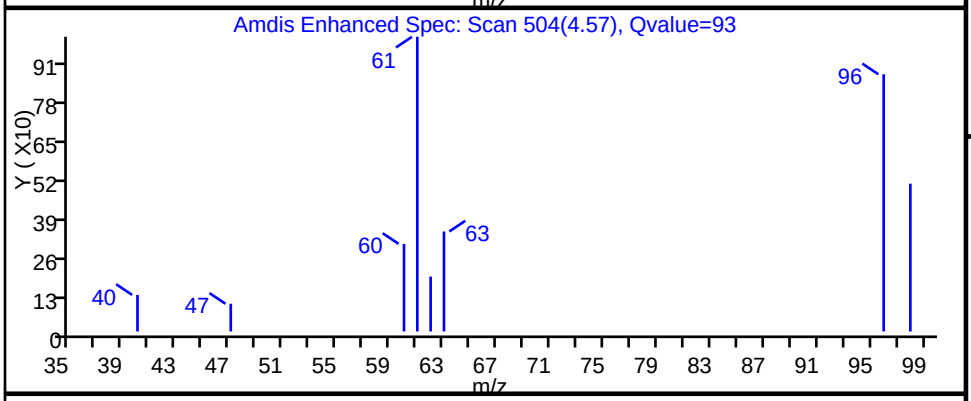
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001020.D

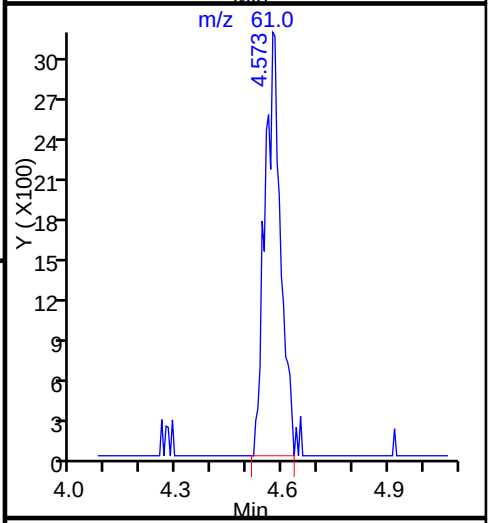
Injection Date:	01-Oct-2015 20:12:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-B-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

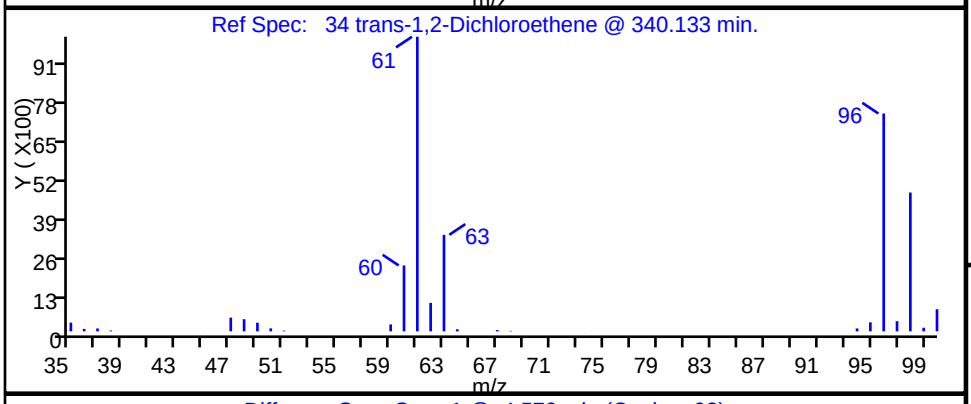
34 trans-1,2-Dichloroethene, CAS: 156-60-5

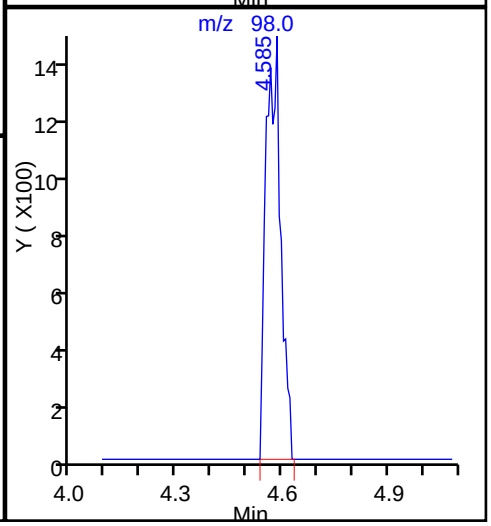


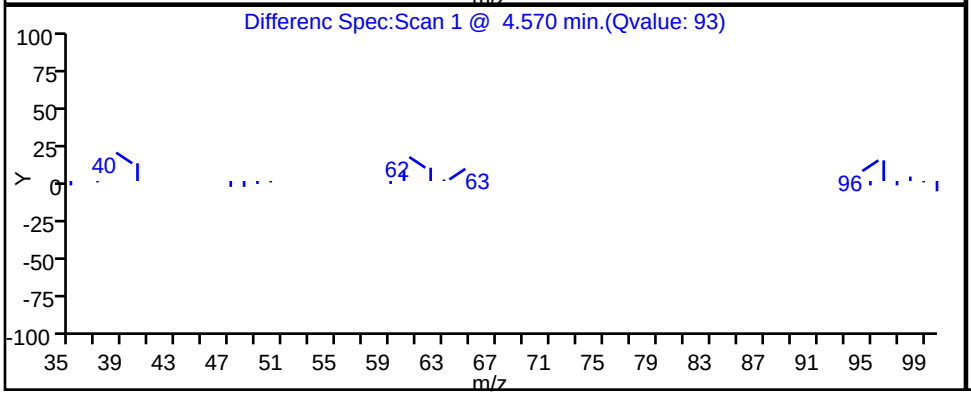












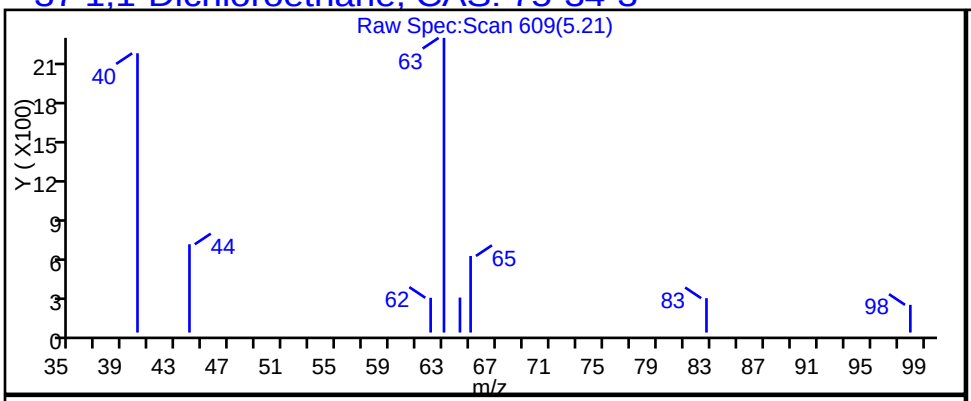
Report Date: 02-Oct-2015 07:55:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

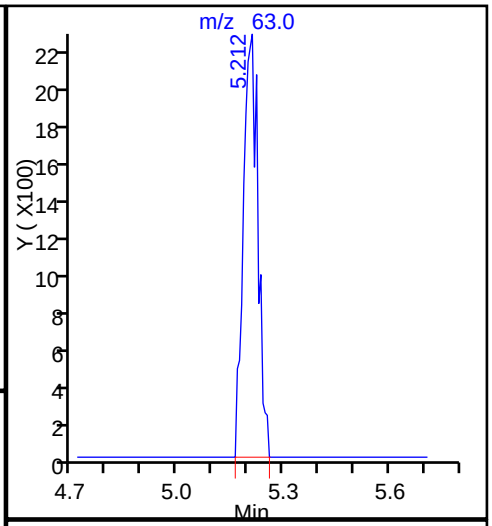
TestAmerica Pittsburgh

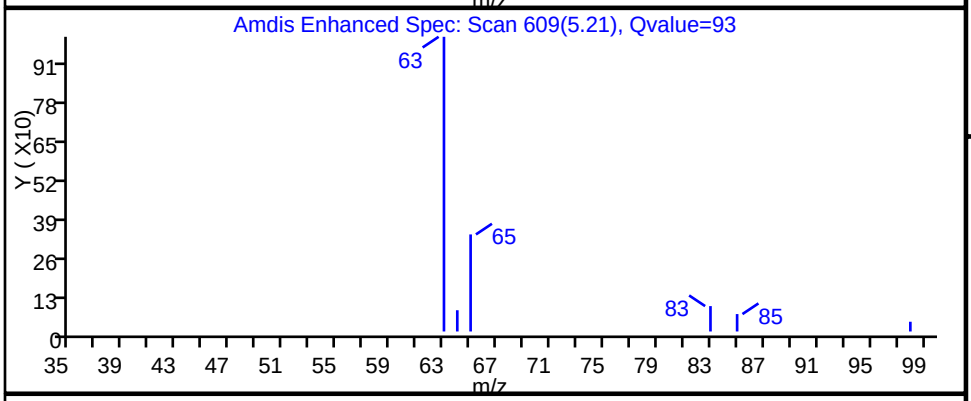
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001020.D

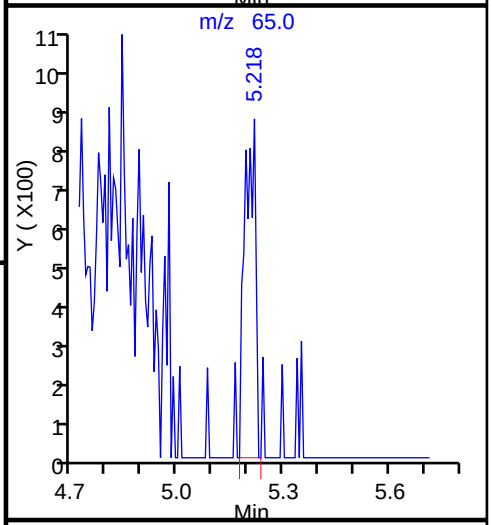
Injection Date:	01-Oct-2015 20:12:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-B-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

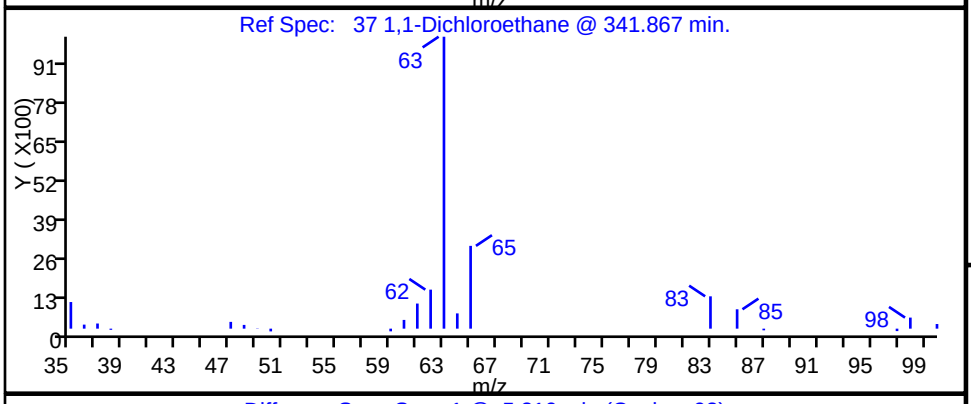
37 1,1-Dichloroethane, CAS: 75-34-3

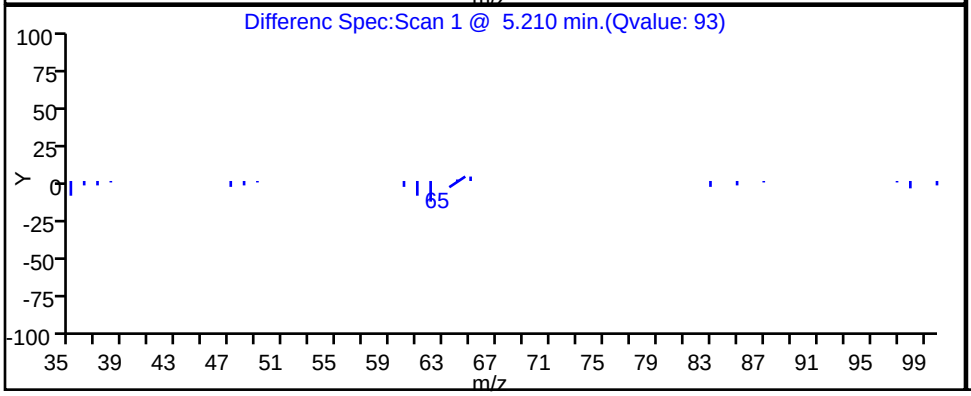


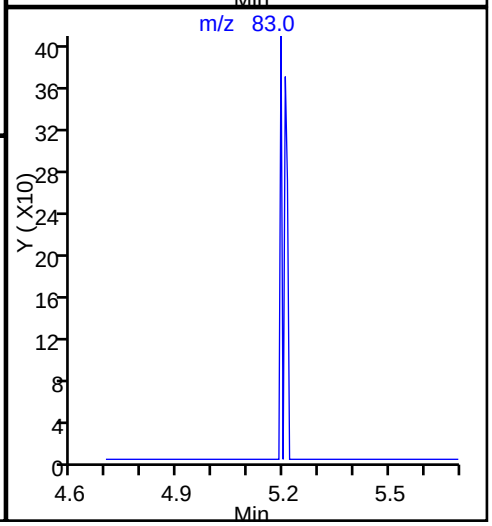












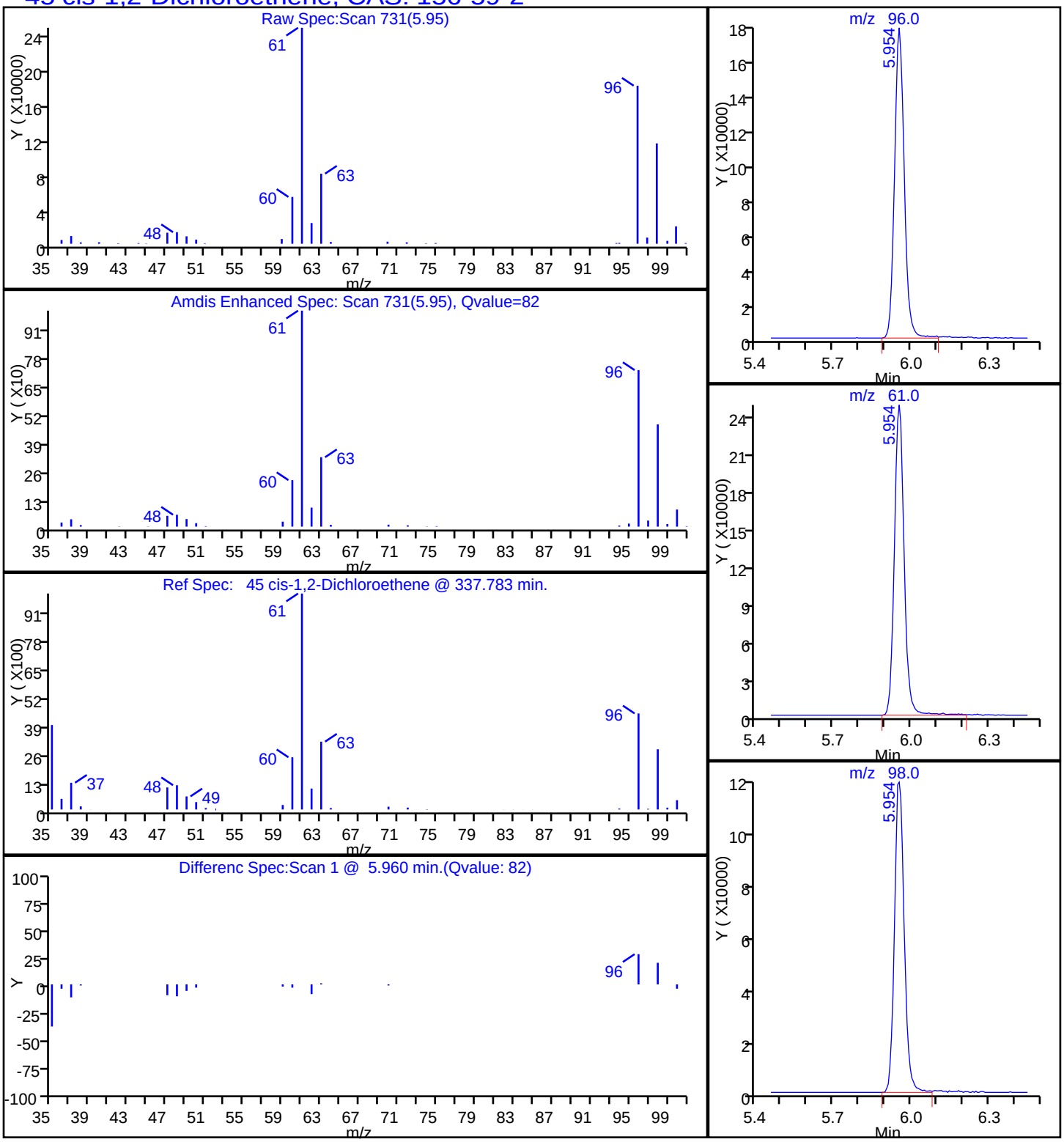
Report Date: 02-Oct-2015 07:55:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001020.D

Injection Date:	01-Oct-2015 20:12:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-B-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



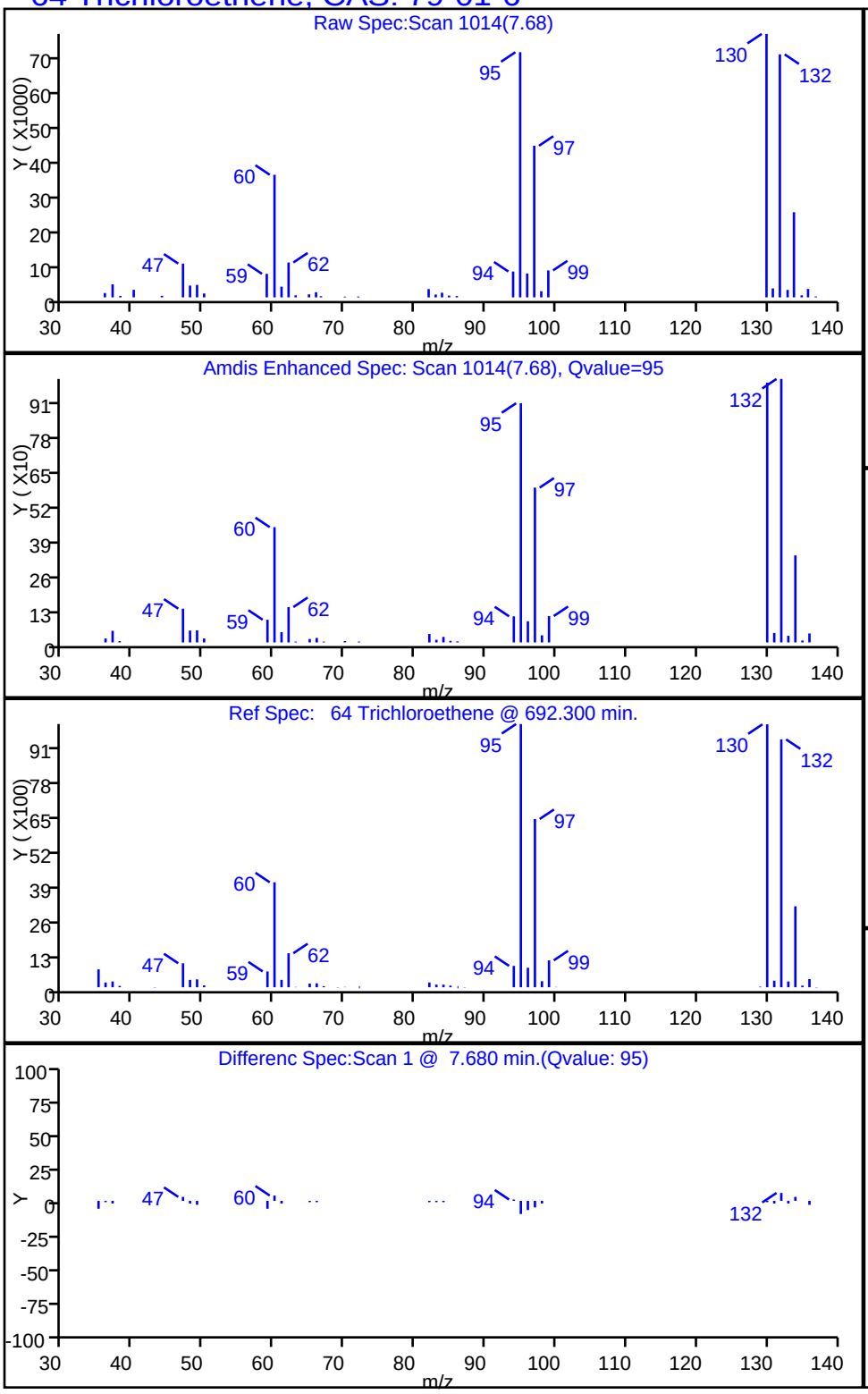
Report Date: 02-Oct-2015 07:55:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

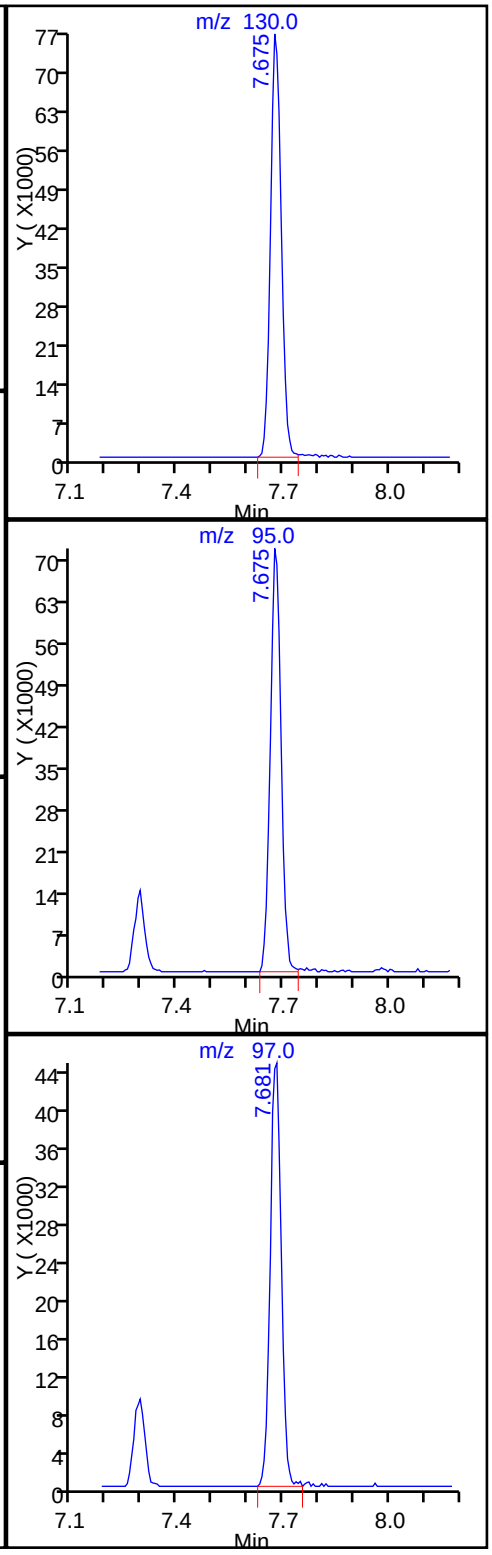
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001020.D

Injection Date:	01-Oct-2015 20:12:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-B-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

64 Trichloroethene, CAS: 79-01-6





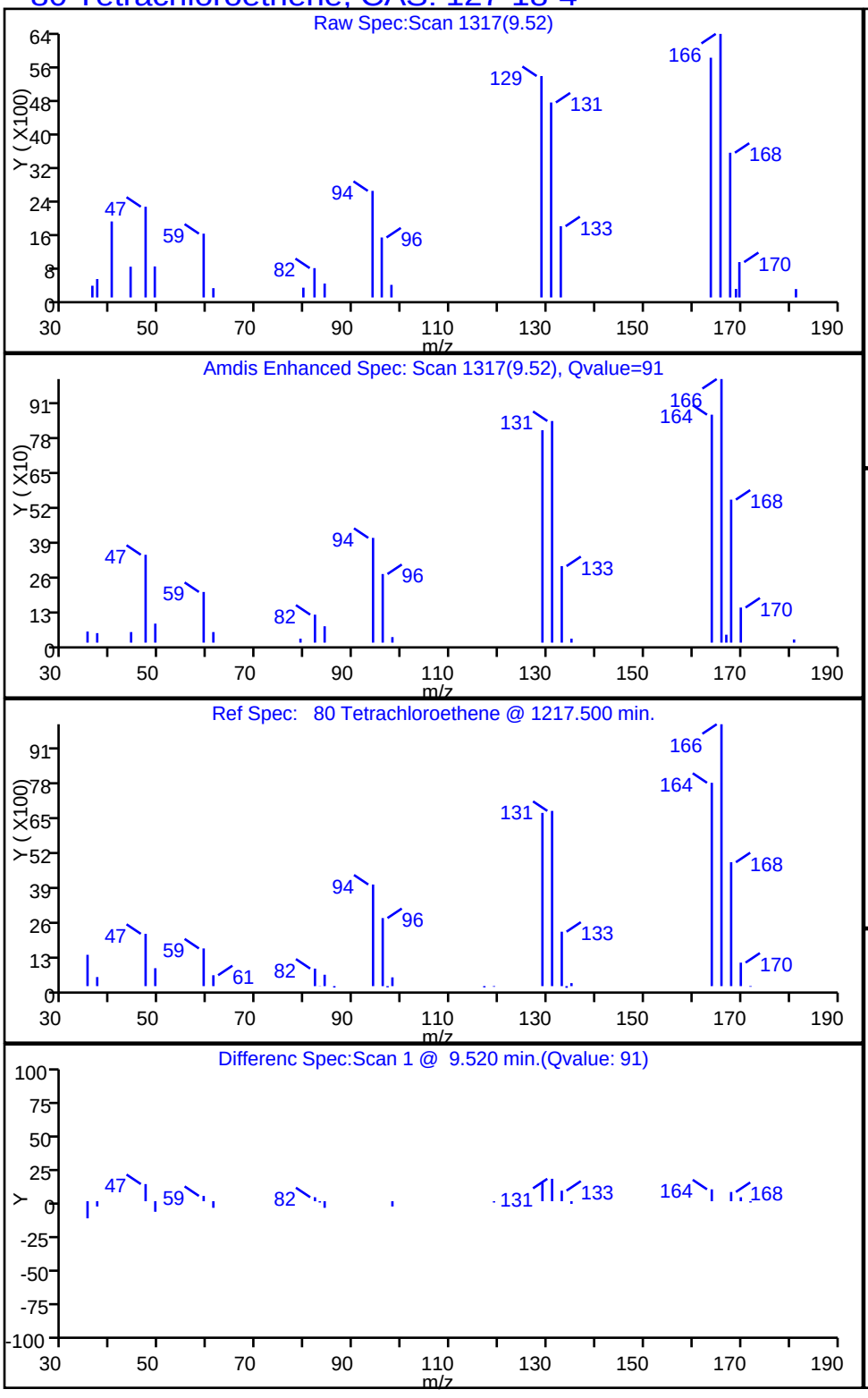
Report Date: 02-Oct-2015 07:55:22 Chrom Revision: 2.2 08-Sep-2015 13:41:46

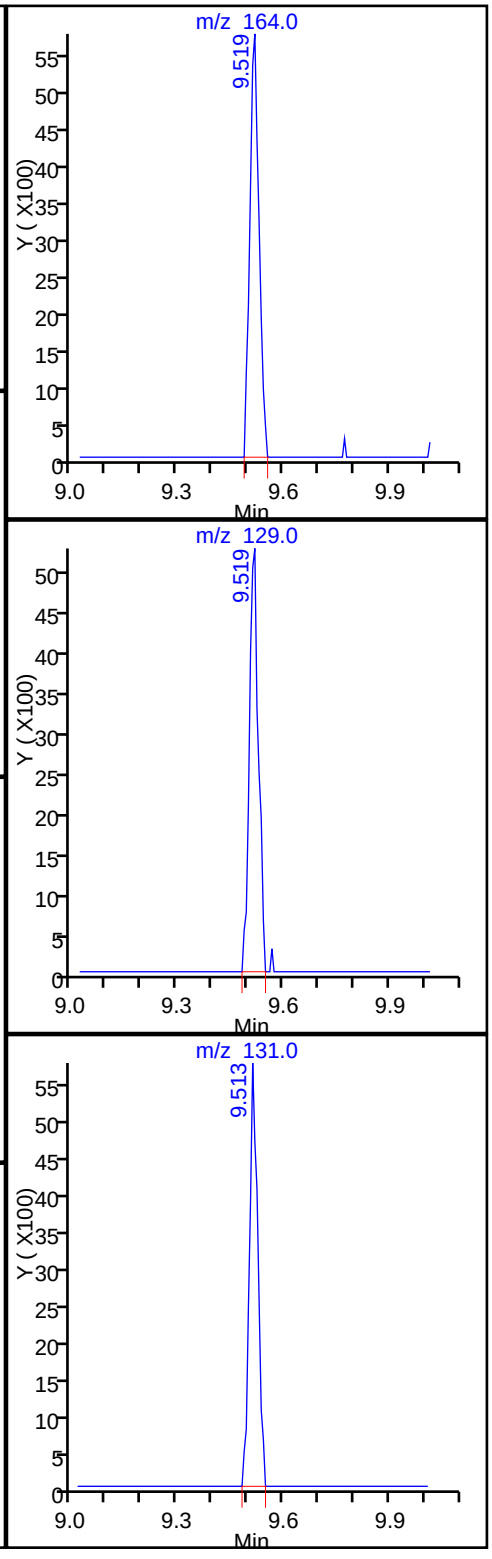
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001020.D

Injection Date:	01-Oct-2015 20:12:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-B-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4





Manual Integration/User Assign Peak Report

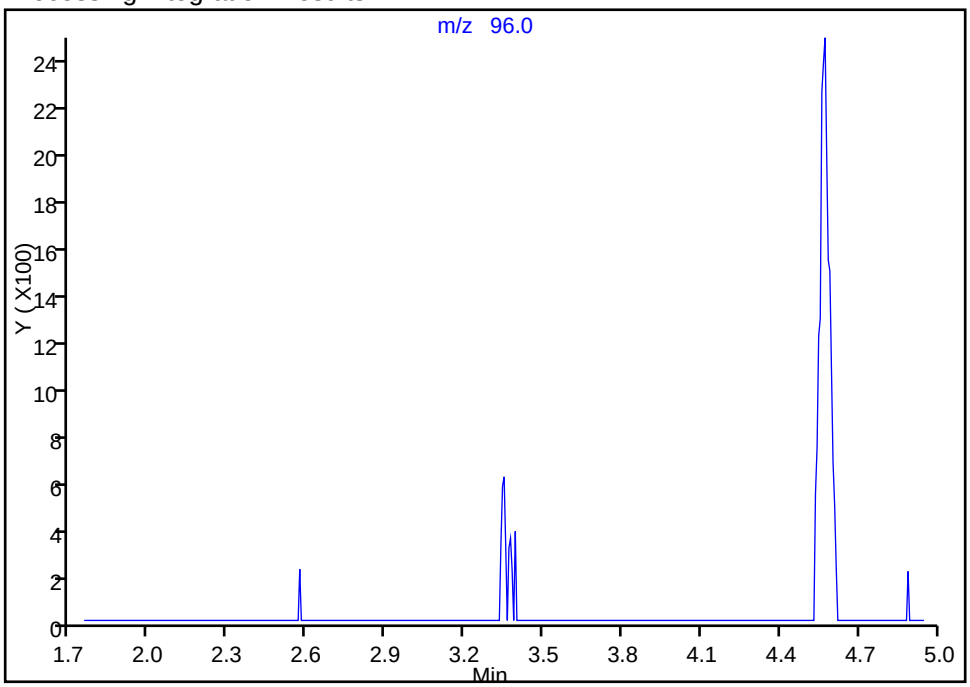
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001020.D				
Injection Date:	01-Oct-2015 20:12:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-B-5	Lab Sample ID:	180-48073-5		
Client ID:	HD-MW-94-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

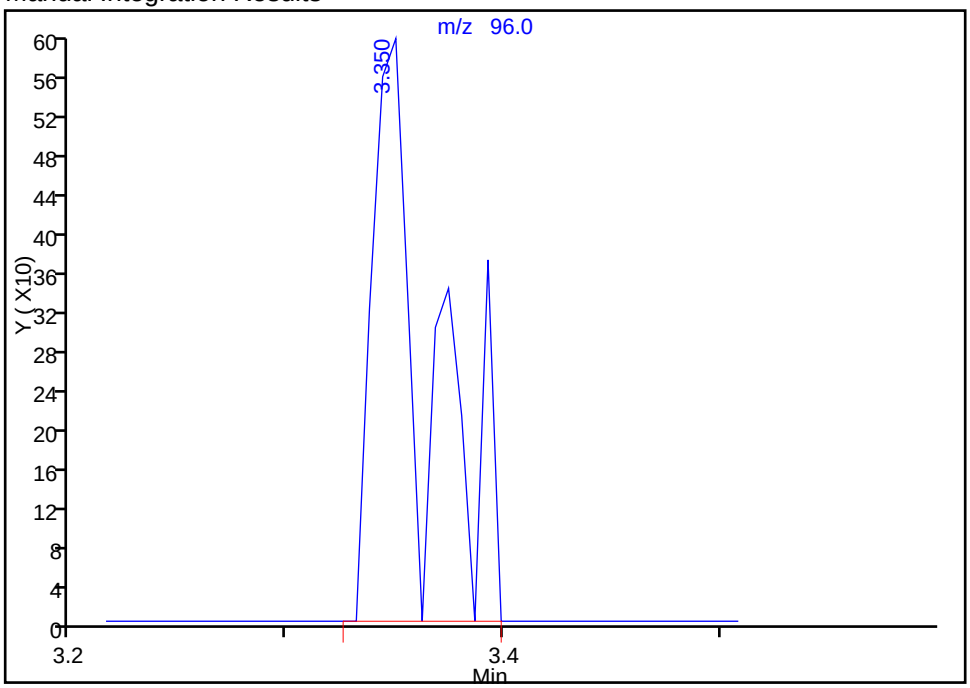
Not Detected
Expected RT: 3.35

Processing Integration Results



RT: 3.35
Area: 1093
Amount: 0.657270
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 02-Oct-2015 07:55:22
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-57-0/1-0 | Lab Sample ID: 180-48073-6

Matrix: Water | Lab File ID: 51002029.D

Analysis Method: 8260C | Date Collected: 09/23/2015 14:17

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2015 23:10

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.: 155711 | 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	15		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	0.63	J	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	13		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	1.6		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	40		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 ^c	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	3.6		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.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-57-0/1-0 | Lab Sample ID: 180-48073-6

Matrix: Water | Lab File ID: 51002029.D

Analysis Method: 8260C | Date Collected: 09/23/2015 14:17

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2015 23:10

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.: 155711 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101	^c	64-135
2037-26-5	Toluene-d8 (Surr)	96		71-118
460-00-4	4-Bromofluorobenzene (Surr)	86		70-118
1868-53-7	Dibromofluoromethane (Surr)	109		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002029.D
Lims ID: 180-48073-C-6 Lab Sample ID: 180-48073-6
Client ID: HD-MW-57-0/1-0
Sample Type: Client
Inject. Date: 02-Oct-2015 23:10:30 ALS Bottle#: 27 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48073-C-6
Misc. Info.: 180-0008799-029
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Oct-2015 08:44:17 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: fergusond Date: 03-Oct-2015 08:44:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.259	4.268	-0.009	0	117206	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.285	0.004	98	289886	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.388	-0.003	86	74195	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.727	12.730	-0.003	96	106510	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.559	6.561	-0.002	92	77352	54.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.932	0.004	0	99215	50.7	
$ 7 Toluene-d8 (Surr)	98	8.937	8.934	0.003	94	275190	48.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.568	0.004	90	93102	43.1	
12 Chloromethane	50		1.767				ND	
13 Vinyl chloride	62		1.907				ND	
15 Bromomethane	94		2.236				ND	
16 Chloroethane	64		2.388				ND	
22 1,1-Dichloroethene	96	3.347	3.349	-0.002	97	117132	72.5	
24 Acetone	43		3.440				ND	
26 Carbon disulfide	76		3.629				ND	
31 Methylene Chloride	84		4.128				ND	
33 Acrylonitrile	53		4.517				ND	
34 trans-1,2-Dichloroethene	96		4.560				ND	
35 Methyl tert-butyl ether	73	4.582	4.572	0.010	34	974	0.2400	
37 1,1-Dichloroethane	63	5.214	5.198	0.016	95	10944	3.17	
45 cis-1,2-Dichloroethene	96	5.957	5.947	0.010	83	122745	65.5	
46 2-Butanone (MEK)	43		5.953				ND	
49 Chlorobromomethane	128		6.233				ND	
52 Chloroform	83	6.382	6.379	0.003	96	23510	7.88	
53 1,1,1-Trichloroethane	97	6.541	6.537	0.004	0	2105	0.9541	M
56 Carbon tetrachloride	117		6.713				ND	
58 Benzene	78		6.938				ND	
59 1,2-Dichloroethane	62		7.011				ND	
64 Trichloroethene	130	7.678	7.674	0.004	96	349547	199.9	
67 1,2-Dichloropropane	63		7.948				ND	
70 1,4-Dioxane	88	8.037	8.033	0.004	34	1175	90.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.228				ND	
74 cis-1,3-Dichloropropene	75		8.672				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.824				ND	
76 Toluene	91		9.001				ND	
77 trans-1,3-Dichloropropene	75		9.250				ND	
79 1,1,2-Trichloroethane	97		9.445				ND	
80 Tetrachloroethene	164	9.515	9.518	-0.003	96	25380	17.8	
82 2-Hexanone	43		9.658				ND	
84 Chlorodibromomethane	129		9.810				ND	
85 Ethylene Dibromide	107		9.925				ND	
87 Chlorobenzene	112		10.412				ND	
89 1,1,1,2-Tetrachloroethane	131		10.509				ND	
90 Ethylbenzene	106		10.515				ND	
91 m-Xylene & p-Xylene	106		10.643				ND	
92 o-Xylene	106		11.026				ND	
93 Styrene	104		11.051				ND	
94 Bromoform	173		11.233				ND	
99 1,1,2,2-Tetrachloroethane	83		11.708				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

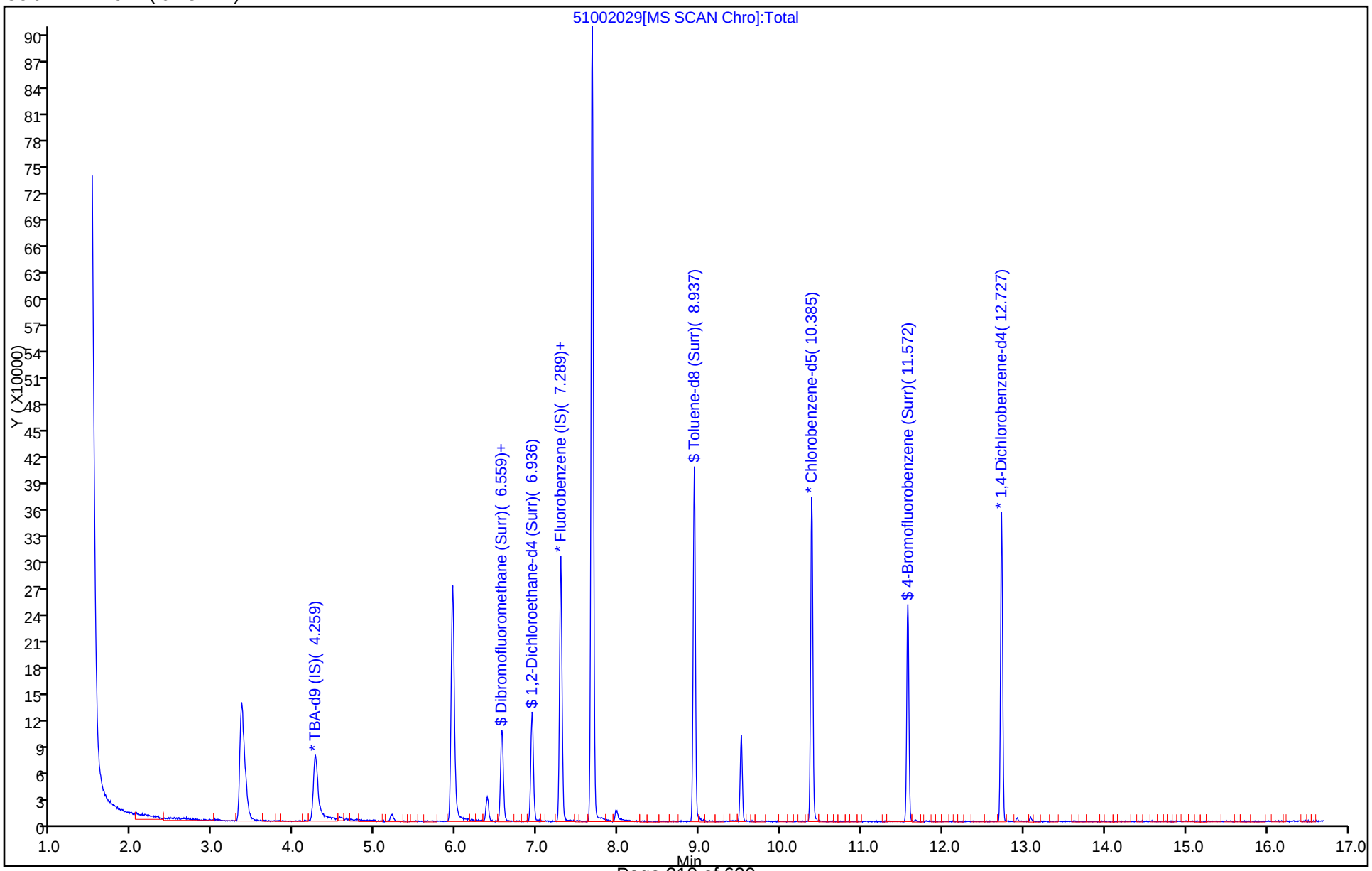
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 03-Oct-2015 08:44:17 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002029.D				
Injection Date:	02-Oct-2015 23:10:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48073-C-6	Lab Sample ID:	180-48073-6	Worklist Smp#:	29
Client ID:	HD-MW-57-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



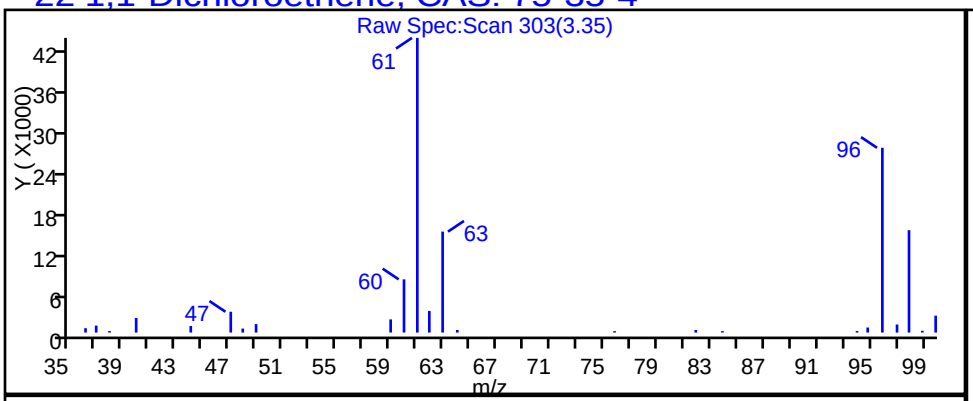
Report Date: 03-Oct-2015 08:44:17 Chrom Revision: 2.2 08-Sep-2015 13:41:46

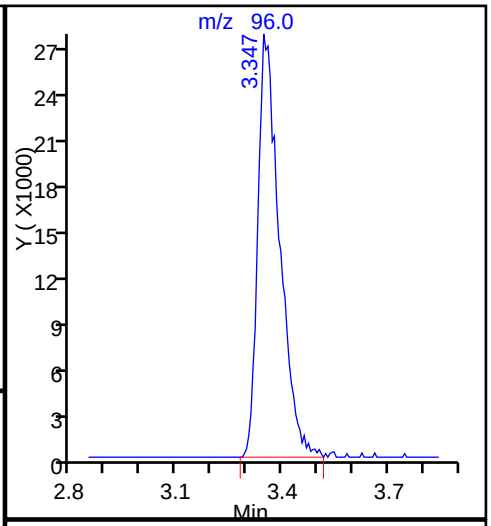
TestAmerica Pittsburgh

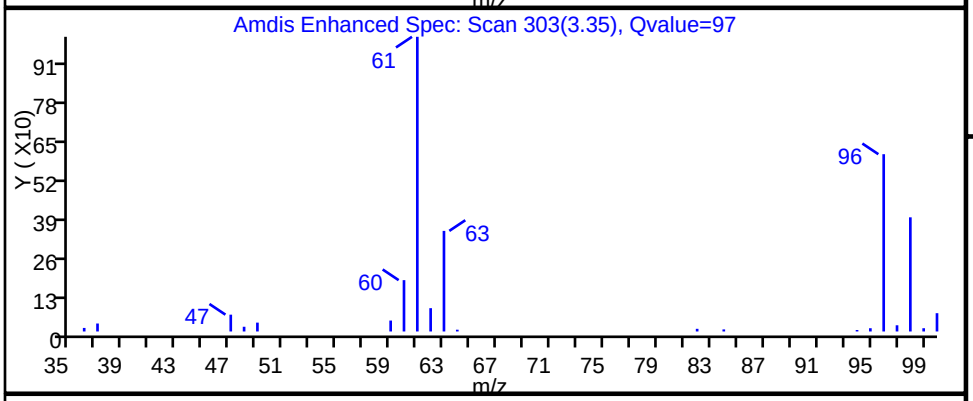
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002029.D

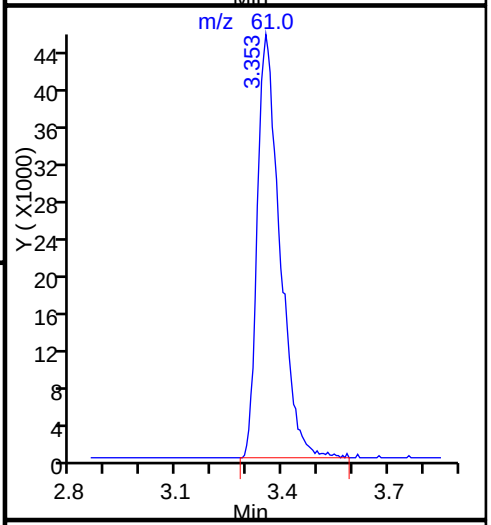
Injection Date:	02-Oct-2015 23:10:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-6	Lab Sample ID:	180-48073-6		
Client ID:	HD-MW-57-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

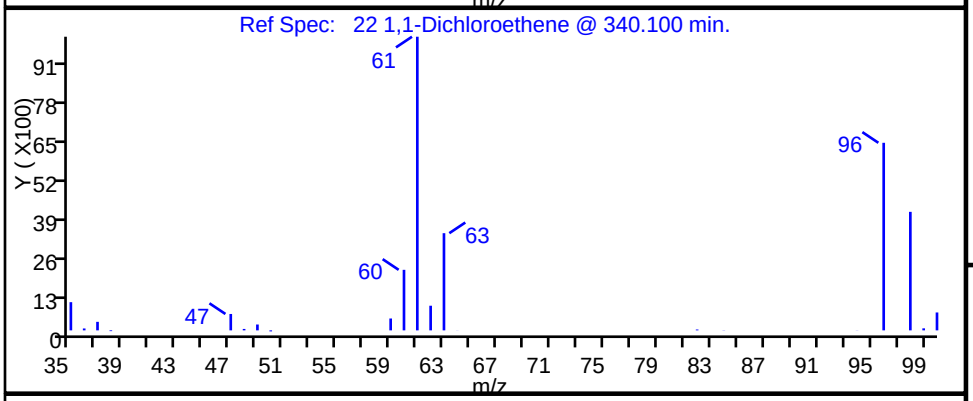
22 1,1-Dichloroethene, CAS: 75-35-4

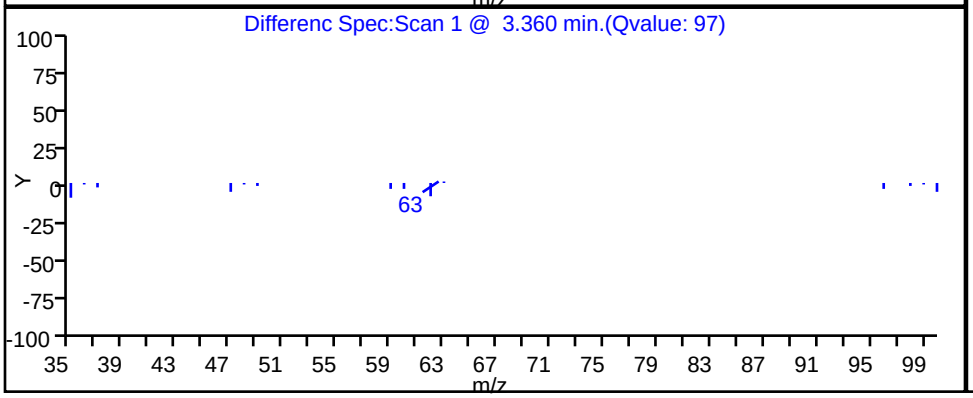


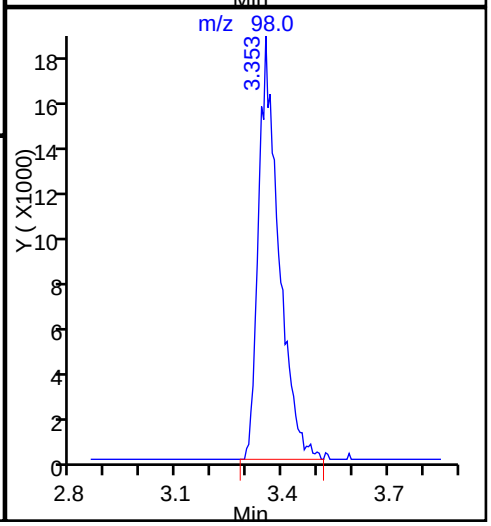












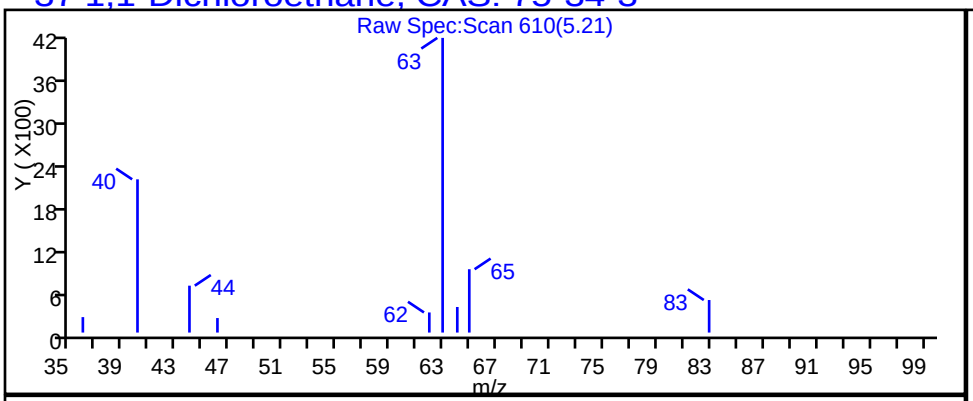
Report Date: 03-Oct-2015 08:44:17 Chrom Revision: 2.2 08-Sep-2015 13:41:46

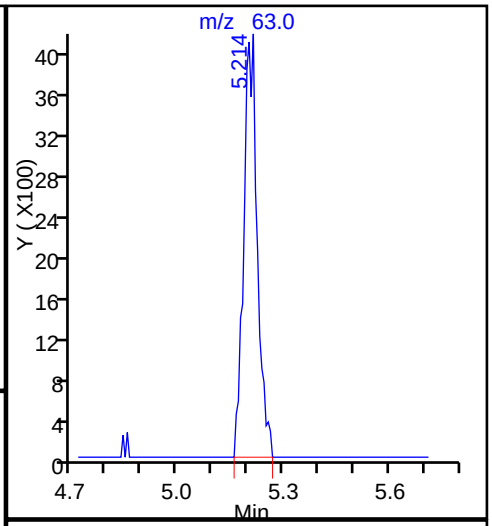
TestAmerica Pittsburgh

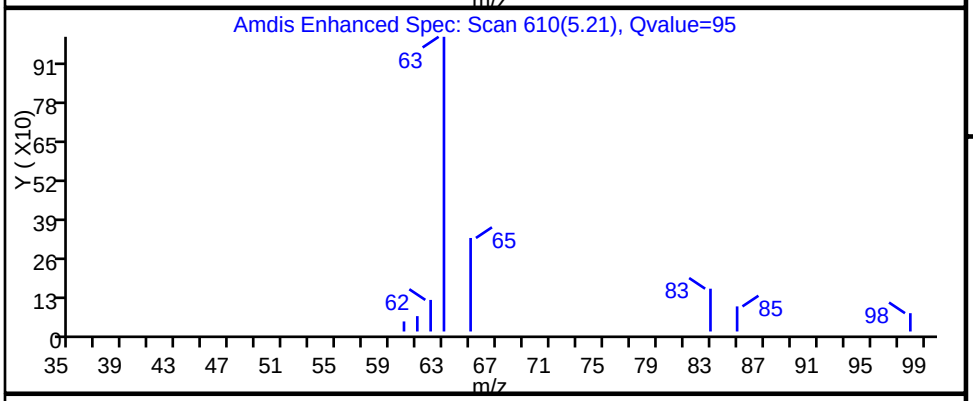
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002029.D

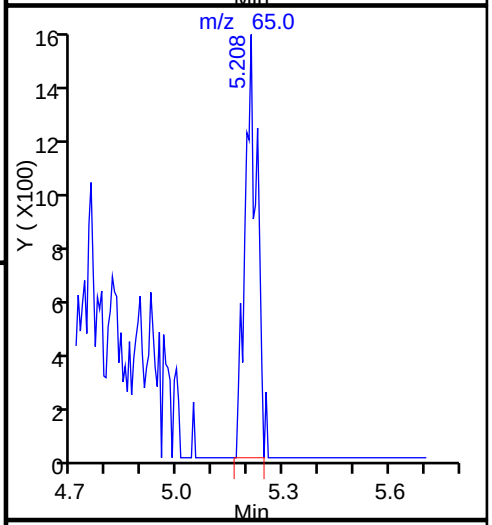
Injection Date:	02-Oct-2015 23:10:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-6	Lab Sample ID:	180-48073-6		
Client ID:	HD-MW-57-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

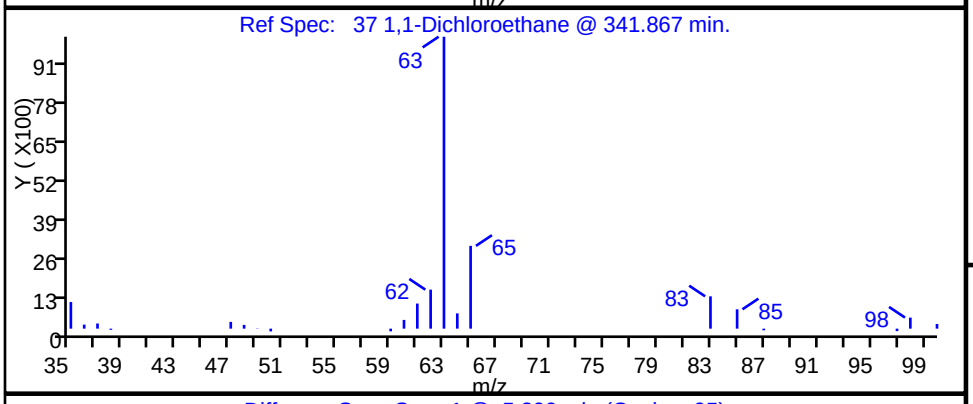
37 1,1-Dichloroethane, CAS: 75-34-3

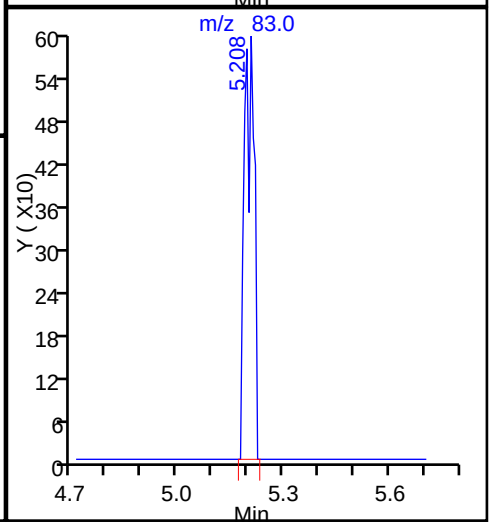


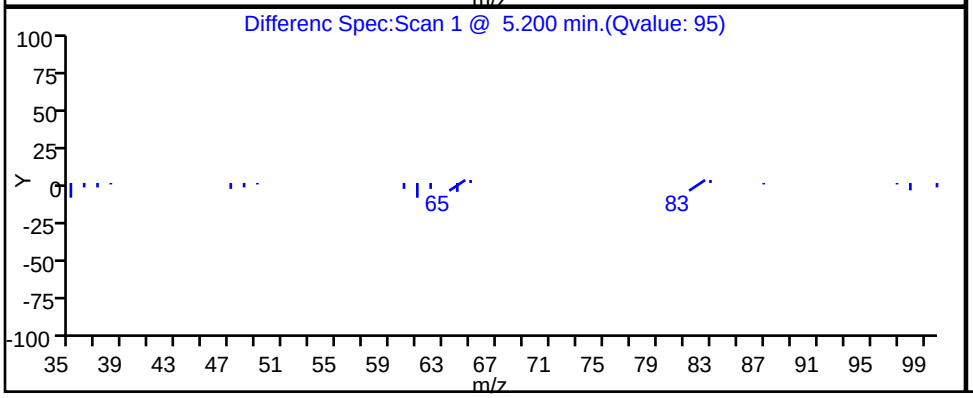










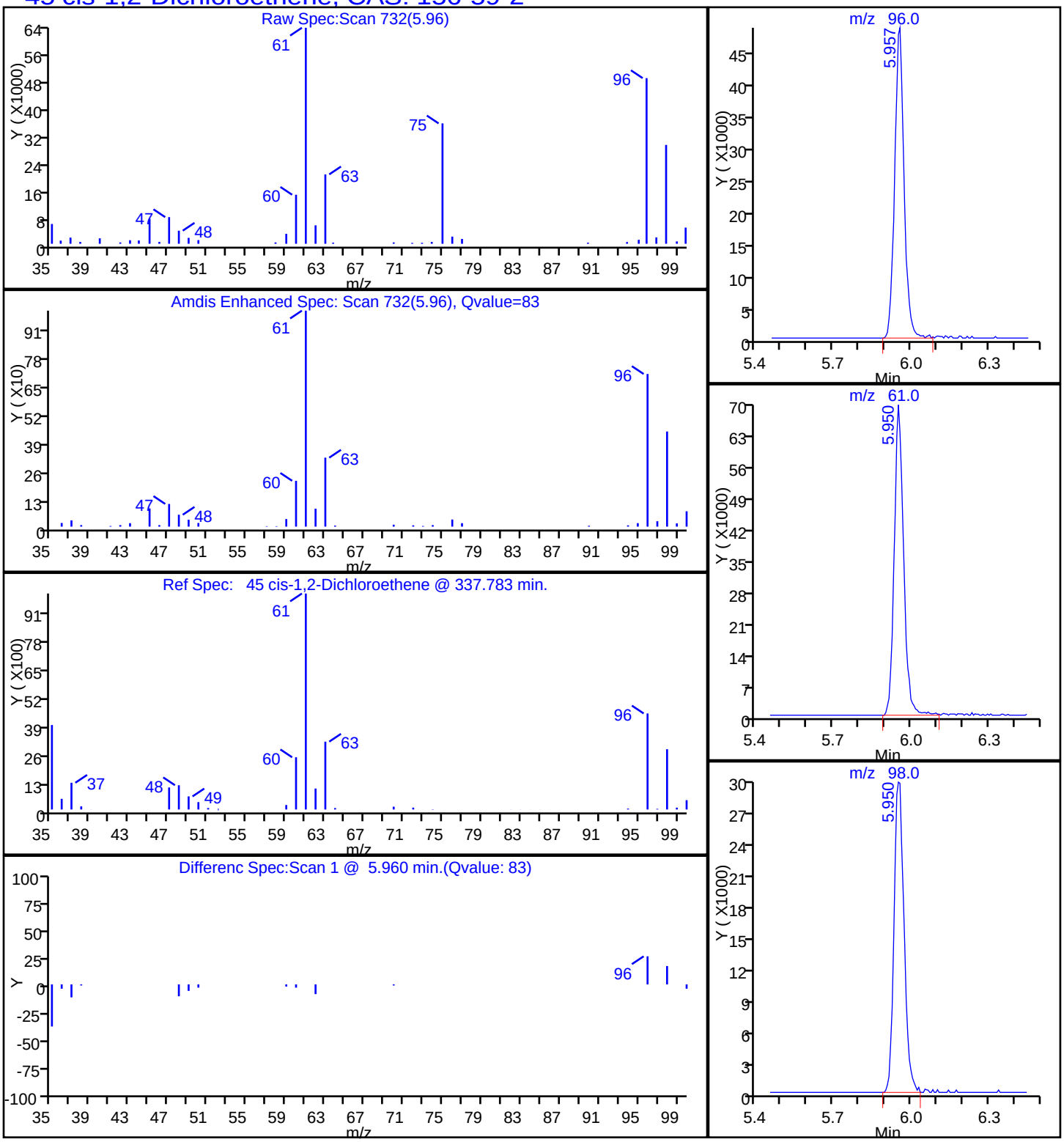


Report Date: 03-Oct-2015 08:44:17 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002029.D				
Injection Date:	02-Oct-2015 23:10:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-6	Lab Sample ID:	180-48073-6		
Client ID:	HD-MW-57-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

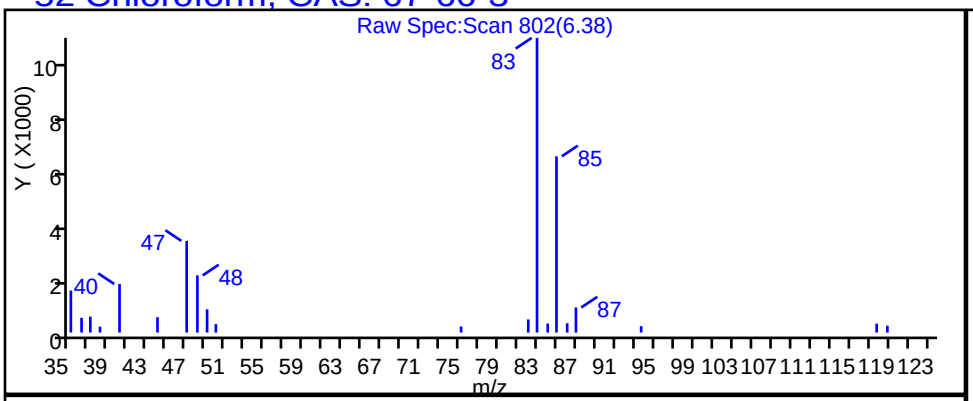


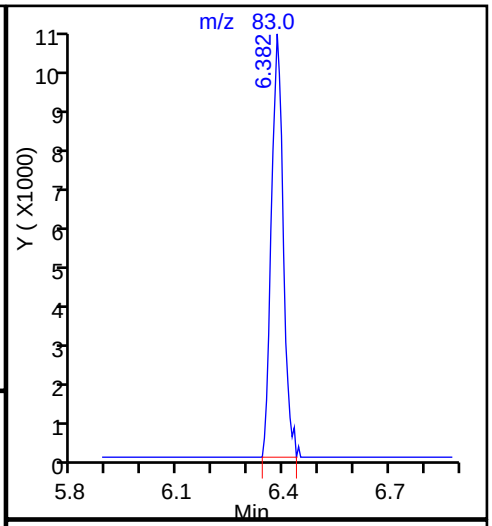
Report Date: 03-Oct-2015 08:44:17 Chrom Revision: 2.2 08-Sep-2015 13:41:46

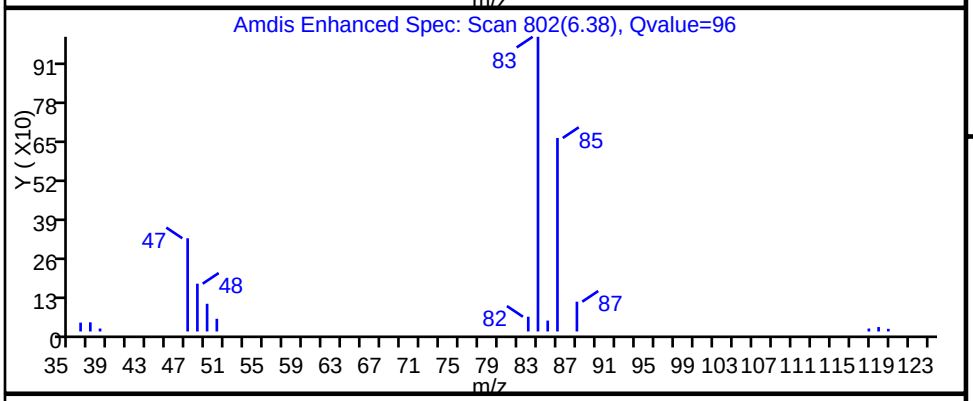
TestAmerica Pittsburgh

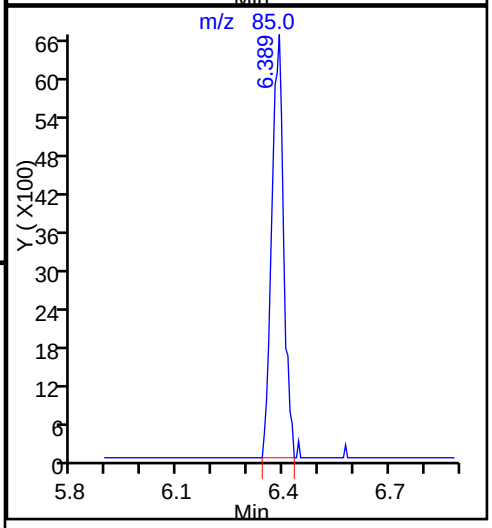
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002029.D				
Injection Date:	02-Oct-2015 23:10:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-6	Lab Sample ID:	180-48073-6		
Client ID:	HD-MW-57-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

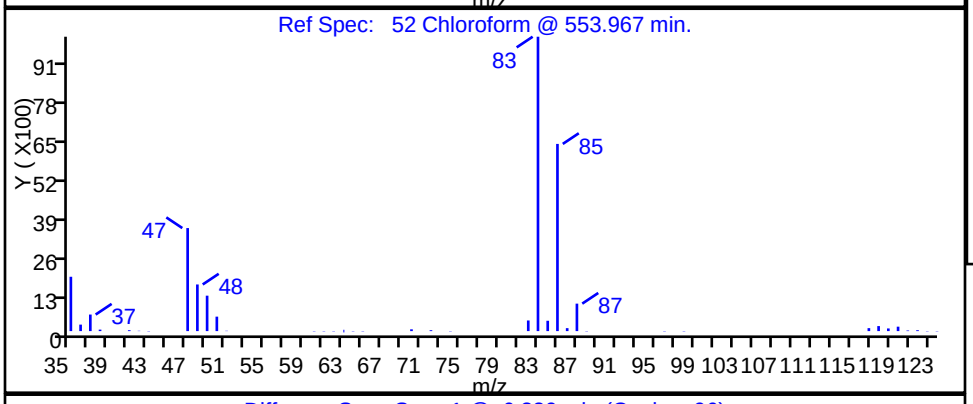
52 Chloroform, CAS: 67-66-3

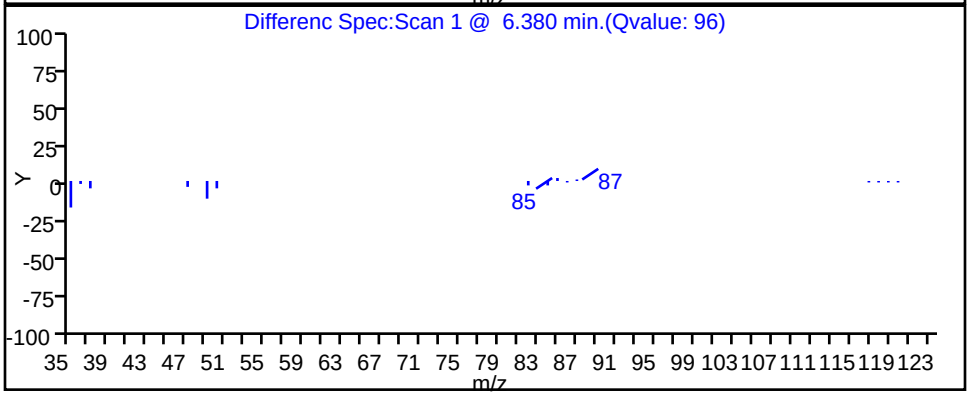












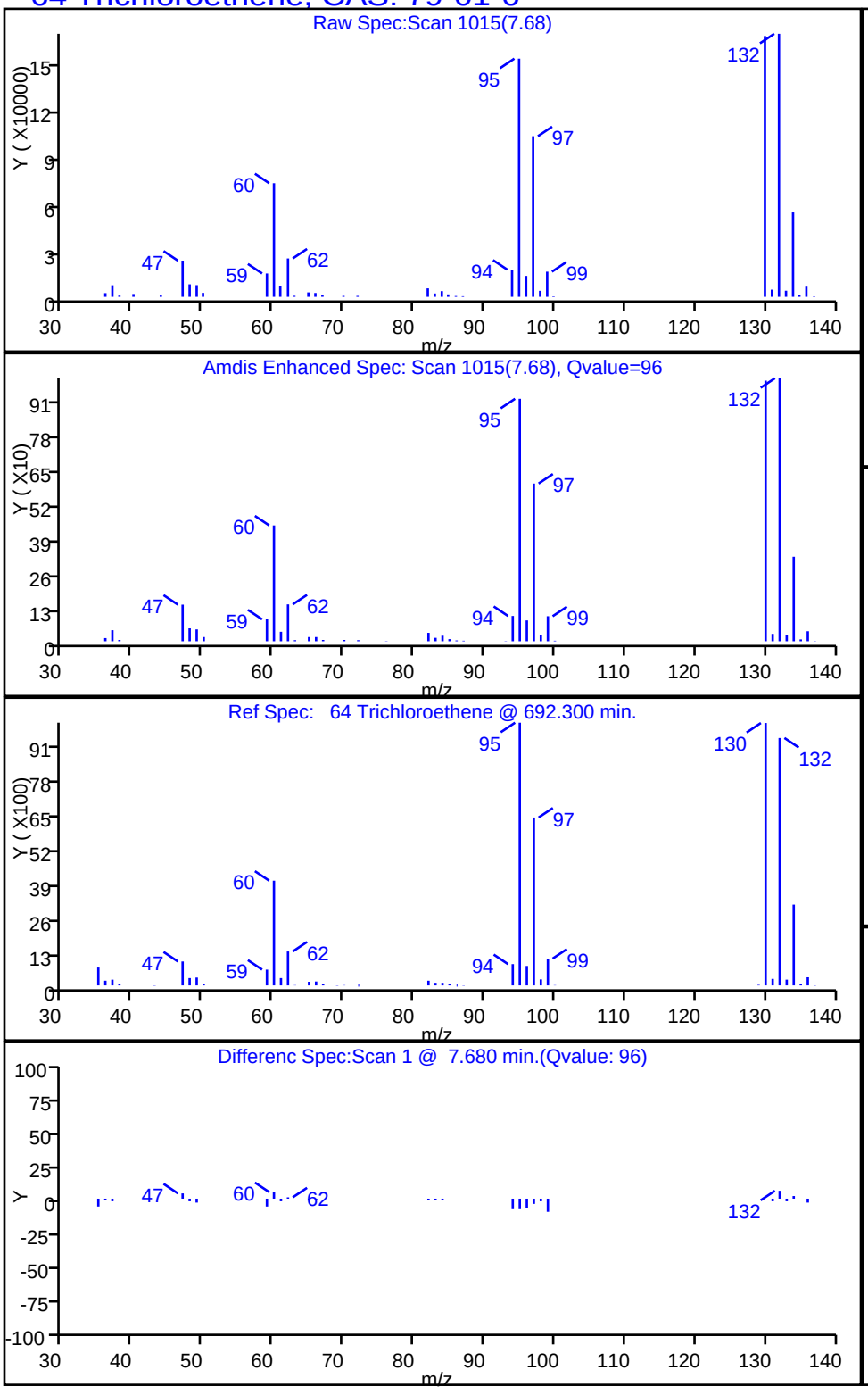
Report Date: 03-Oct-2015 08:44:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

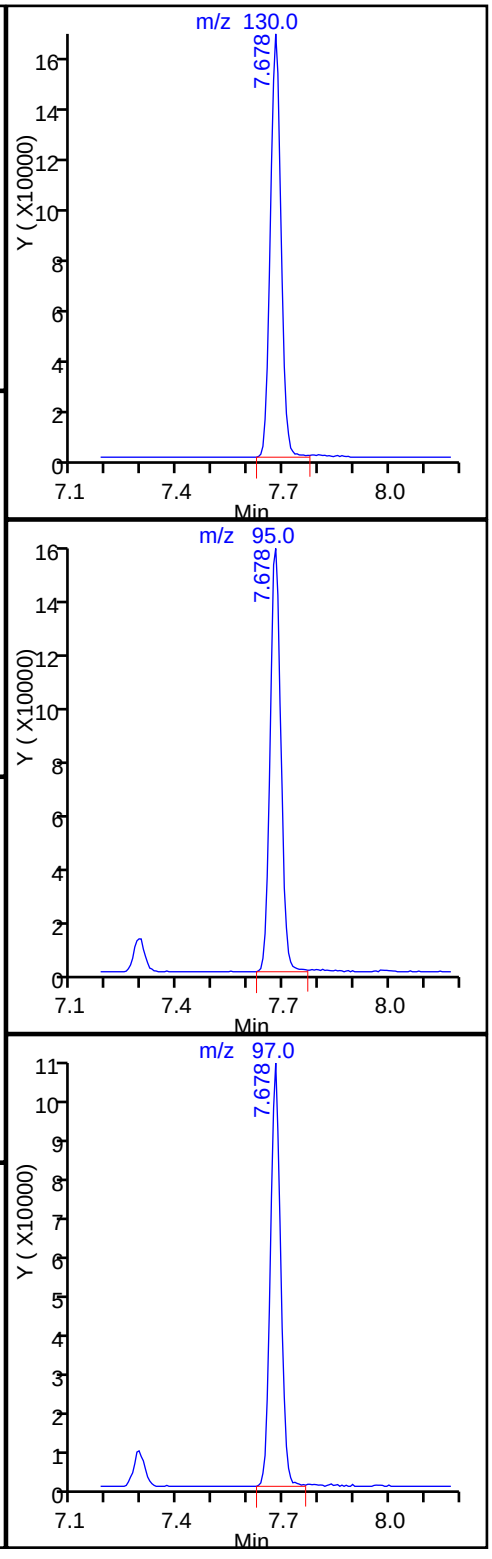
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002029.D

Injection Date:	02-Oct-2015 23:10:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-6	Lab Sample ID:	180-48073-6		
Client ID:	HD-MW-57-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

64 Trichloroethene, CAS: 79-01-6



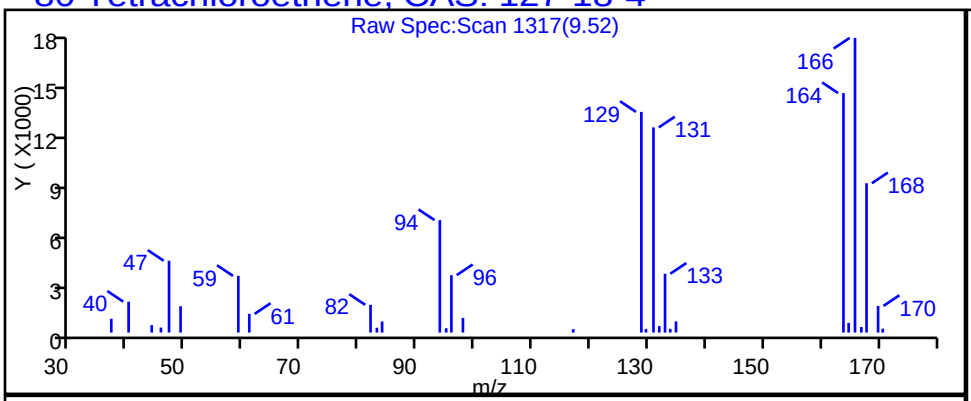


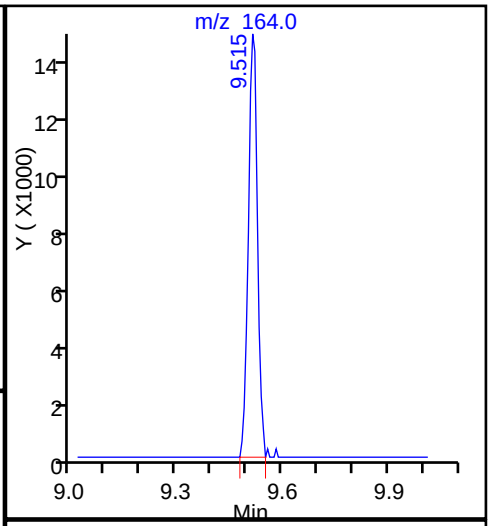
Report Date: 03-Oct-2015 08:44:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

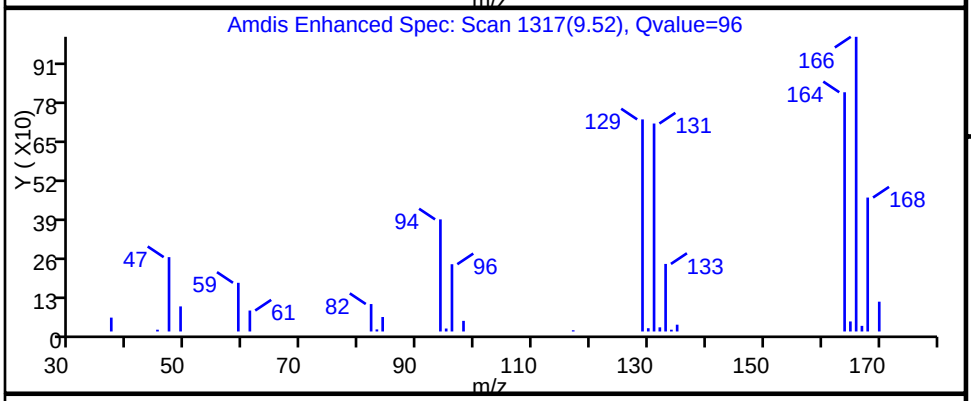
TestAmerica Pittsburgh

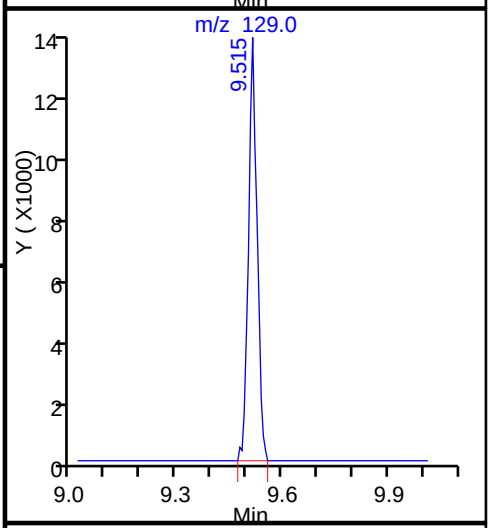
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002029.D		
Injection Date:	02-Oct-2015 23:10:30	Instrument ID:	CHHP5
Lims ID:	180-48073-C-6	Lab Sample ID:	180-48073-6
Client ID:	HD-MW-57-0/1-0		
Operator ID:	001562	ALS Bottle#:	27 Worklist Smp#: 29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

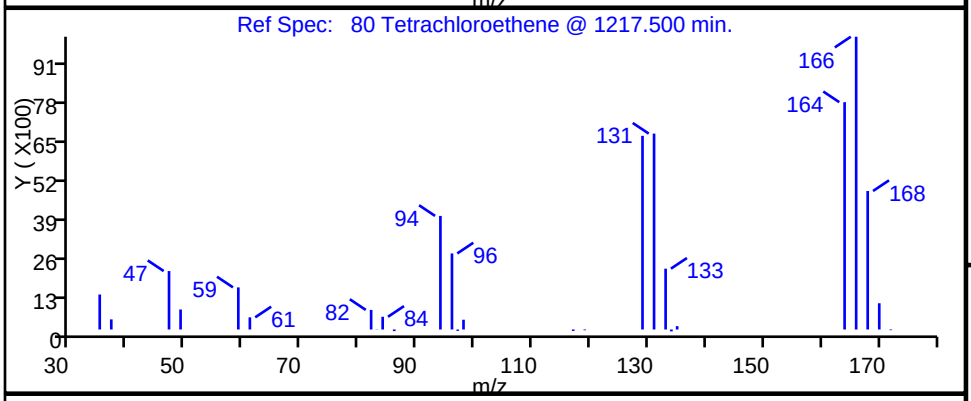
80 Tetrachloroethene, CAS: 127-18-4

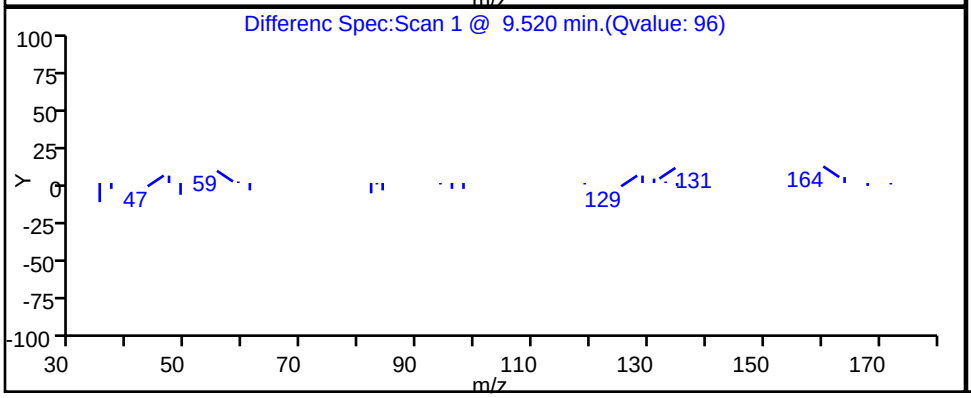


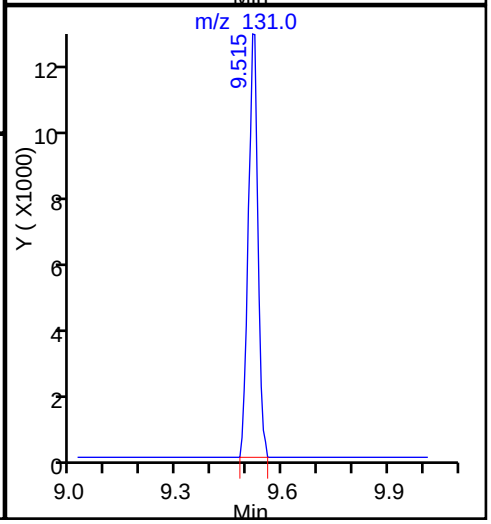












Manual Integration/User Assign Peak Report

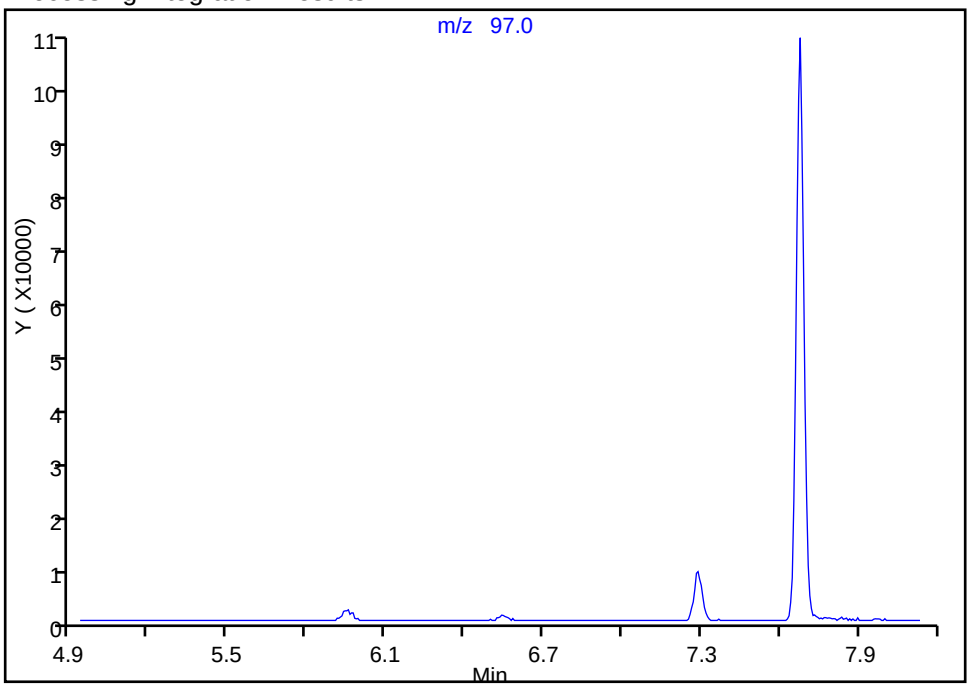
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002029.D				
Injection Date:	02-Oct-2015 23:10:30	Instrument ID:	CHHP5		
Lims ID:	180-48073-C-6	Lab Sample ID:	180-48073-6		
Client ID:	HD-MW-57-0/1-0				
Operator ID:	001562	ALS Bottle#:	27	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

53 1,1,1-Trichloroethane, CAS: 71-55-6

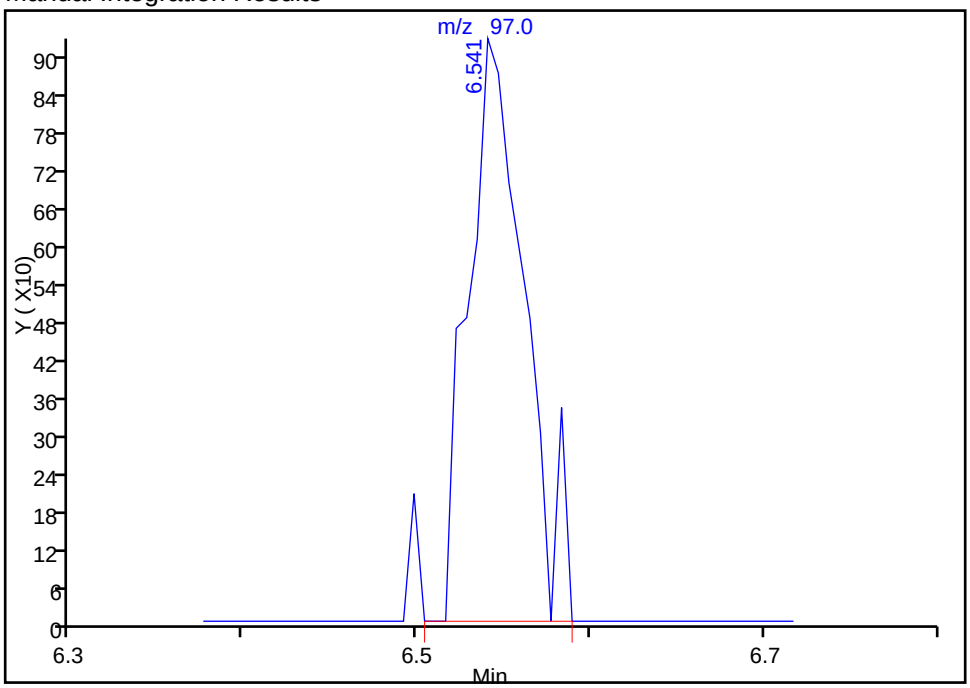
Not Detected
Expected RT: 6.54

Processing Integration Results



Manual Integration Results

RT: 6.54
Area: 2105
Amount: 0.954116
Amount Units: ng



Reviewer: fergusond, 03-Oct-2015 08:44:17
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: HD-QC7-0/1-2 | Lab Sample ID: 180-48073-7

Matrix: Water | Lab File ID: 51001009.D

Analysis Method: 8260C | Date Collected: 09/23/2015 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 15:46

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.: 155577 | 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 ^c	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U ^c	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.: 180-48073-1

SDG No.:

Client Sample ID: HD-QC7-0/1-2 | Lab Sample ID: 180-48073-7

Matrix: Water | Lab File ID: 51001009.D

Analysis Method: 8260C | Date Collected: 09/23/2015 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 15:46

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.: 155577 | 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)	95		64-135
2037-26-5	Toluene-d8 (Surr)	96		71-118
460-00-4	4-Bromofluorobenzene (Surr)	86		70-118
1868-53-7	Dibromofluoromethane (Surr)	102		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001009.D
Lims ID: 180-48073-A-7 Lab Sample ID: 180-48073-7
Client ID: HD-QC7-0/1-2
Sample Type: Client
Inject. Date: 01-Oct-2015 15:46:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48073-A-7
Misc. Info.: 180-0008778-009
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 01-Oct-2015 17:04:54 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: fergusond Date: 01-Oct-2015 17:04:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.269	4.278	-0.009	0	116099	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.289	0.003	98	311077	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.386	0.003	87	80202	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.728	0.003	96	110888	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.568	6.559	0.009	94	77812	50.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.939	6.936	0.003	0	99169	47.3	
$ 7 Toluene-d8 (Surr)	98	8.935	8.938	-0.003	94	297296	48.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.575	11.572	0.003	91	100155	42.9	
12 Chloromethane	50	1.769	1.759	0.010	16	2123	0.8227	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.234				ND	
16 Chloroethane	64		2.386				ND	
22 1,1-Dichloroethene	96		3.347				ND	
24 Acetone	43		3.438				ND	
26 Carbon disulfide	76		3.633				ND	
31 Methylene Chloride	84		4.138				ND	
33 Acrylonitrile	53		4.521				ND	
34 trans-1,2-Dichloroethene	96		4.564				ND	
35 Methyl tert-butyl ether	73		4.576				ND	
37 1,1-Dichloroethane	63		5.196				ND	
45 cis-1,2-Dichloroethene	96		5.951				ND	
46 2-Butanone (MEK)	43		5.957				ND	
49 Chlorobromomethane	128		6.231				ND	
52 Chloroform	83		6.383				ND	
53 1,1,1-Trichloroethane	97		6.541				ND	
56 Carbon tetrachloride	117		6.711				ND	
58 Benzene	78		6.942				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130		7.679				ND	
67 1,2-Dichloropropane	63		7.952				ND	
70 1,4-Dioxane	88		8.025				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.232				ND	
74 cis-1,3-Dichloropropene	75		8.676				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.822				ND	
76 Toluene	91		9.005				ND	
77 trans-1,3-Dichloropropene	75		9.254				ND	
79 1,1,2-Trichloroethane	97		9.449				ND	
80 Tetrachloroethene	164		9.516				ND	
82 2-Hexanone	43		9.656				ND	
84 Chlorodibromomethane	129		9.814				ND	
85 Ethylene Dibromide	107		9.929				ND	
87 Chlorobenzene	112		10.416				ND	
89 1,1,1,2-Tetrachloroethane	131		10.507				ND	
90 Ethylbenzene	106		10.513				ND	
91 m-Xylene & p-Xylene	106		10.647				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.049				ND	
94 Bromoform	173		11.231				ND	
99 1,1,2,2-Tetrachloroethane	83		11.706				ND	
S 133 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

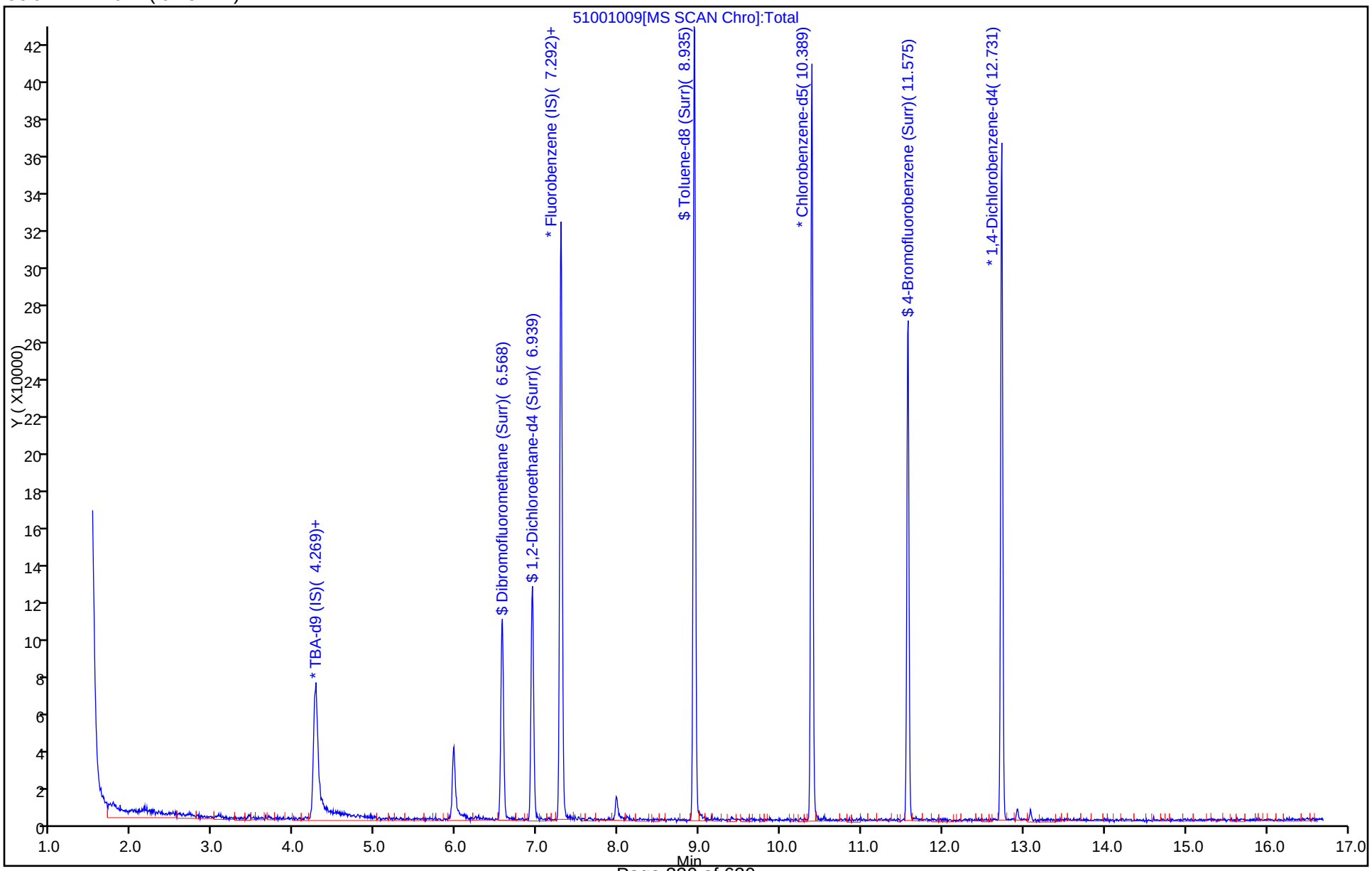
Report Date: 01-Oct-2015 17:04:55 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001009.D

Injection Date:	01-Oct-2015 15:46:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48073-A-7	Lab Sample ID:	180-48073-7	Worklist Smp#:	9
Client ID:	HD-QC7-0/1-2				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVOA_LL_CHHP5	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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151868/6	50826006.D
Level 2	IC 180-151868/8	50826008.D
Level 3	ICIS 180-151868/9	50826009.D
Level 4	IC 180-151868/10	50826010.D
Level 5	IC 180-151868/11	50826011.D
Level 6	IC 180-151868/12	50826012.D
Level 7	IC 180-151868/13	50826013.D
Level 8	IC 180-151868/14	50826014.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	0.3287 0.2623	0.2973 0.2575	0.3036 0.2768	0.2652	0.2686	Ave		0.2825			0.1000	8.8		20.0			
Chloromethane	0.5129 0.3809	0.4550 0.3728	0.4119 0.4194	0.3793	0.3858	Ave		0.4148			0.1000	11.6		20.0			
Vinyl chloride	0.4001 0.3434	0.3977 0.3372	0.3943 0.3699	0.3444	0.3565	Ave		0.3679			0.1000	7.2		20.0			
1,3-Butadiene	0.5239 0.3986	0.4751 0.3875	0.4623 0.4226	0.3955	0.4108	Ave		0.4345			0.0100	11.0		20.0			
Bromomethane	0.1691 0.1521	0.1576 0.1241	0.1270 0.1576	0.1608	0.1494	Ave		0.1497			0.0500	10.7		20.0			
Chloroethane	0.2791 0.2041	0.2380 0.2011	0.2154 0.2199	0.2110	0.2070	Ave		0.2220			0.0500	11.6		20.0			
Dichlorofluoromethane	0.5546 0.4260	0.5213 0.4285	0.5031 0.4664	0.4321	0.4354	Ave		0.4709			0.0100	10.5		20.0			
Trichlorofluoromethane	0.3948 0.3299	0.3814 0.3233	0.3774 0.3496	0.3273	0.3345	Ave		0.3523			0.1000	8.0		20.0			
Ethyl ether	0.4234 0.2964	0.3324 0.2960	0.3164 0.3549	0.2973	0.2952	Ave		0.3265			0.0100	13.7		20.0			
Acrolein	0.0512 0.0479	0.0489 0.0478	0.0480 0.0550	0.0441	0.0462	Ave		0.0486			0.0100	6.7		20.0			
1,1-Dichloroethene	0.2946 0.2694	0.2816 0.2624	0.2875 0.2968	0.2618	0.2736	Ave		0.2785			0.1000	5.0		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3300 0.2776	0.3157 0.2707	0.3079 0.2975	0.2771	0.2839	Ave		0.2951			0.1000	7.2		20.0			
Acetone	0.1264 0.0944	0.1213 0.0888	0.0958 0.1083	0.0854	0.0868	Ave		0.1009			0.0500	15.8		20.0			
Iodomethane	0.4682 0.3963	0.4179 0.3889	0.4130 0.4559	0.3863	0.3938	Ave		0.4150			0.0100	7.5		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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	0.6362 0.6697	0.5938 0.6592	0.6262 0.7601	0.5915	0.6365	Ave		0.6466			0.1000	8.3		20.0			
Allyl chloride	0.1392 0.1626	0.1500 0.1654	0.1522 0.1887	0.1471	0.1566	Ave		0.1577			0.0100	9.6		20.0			
Methyl acetate	0.3337 0.2890	0.3263 0.2857	0.2882 0.3263	0.2787	0.2836	Ave		0.3015			0.1000	7.6		20.0			
Methylene Chloride	0.6517 0.2904	0.3723 0.2913	0.3258 0.3382	0.3056	0.2911	Lin2	1.8054	0.2910			0.1000				0.9950		0.9900
tert-Butyl alcohol	1.3524 1.1479	1.0348 1.0778	1.0400 1.1523	1.0913	1.1079	Ave		1.1255			0.0100	9.0		20.0			
Acrylonitrile	0.1618 0.1395	0.1545 0.1388	0.1504 0.1578	0.1327	0.1347	Ave		0.1463			0.0100	7.7		20.0			
trans-1,2-Dichloroethene	0.3383 0.2905	0.3111 0.2805	0.3070 0.3253	0.2770	0.2891	Ave		0.3024			0.1000	7.2		20.0			
Methyl tert-butyl ether	0.7340 0.6851	0.6905 0.6950	0.6558 0.8276	0.6473	0.6637	Ave		0.6999			0.1000	8.3		20.0			
Hexane	0.5487 0.5062	0.5124 0.4822	0.5150 0.5325	0.4707	0.4929	Ave		0.5076			0.0100	5.1		20.0			
1,1-Dichloroethane	0.6731 0.5678	0.6009 0.5615	0.5929 0.6517	0.5533	0.5641	Ave		0.5957			0.2000	7.5		20.0			
Vinyl acetate	0.4658 0.4559	0.4321 0.4509	0.4142 0.5072	0.4114	0.4375	Ave		0.4469			0.0100	6.9		20.0			
2,2-Dichloropropane	0.2543 0.2353	0.2294 0.2294	0.2373 0.2670	0.2227	0.2344	Ave		0.2387			0.0100	6.1		20.0			
cis-1,2-Dichloroethene	0.3560 0.3133	0.3276 0.3052	0.3171 0.3596	0.3029	0.3027	Ave		0.3230			0.1000	7.1		20.0			
2-Butanone (MEK)	0.1700 0.1465	0.1604 0.1446	0.1482 0.1652	0.1430	0.1348	Ave		0.1516			0.0500	8.1		20.0			
Bromochloromethane	0.1549 0.1331	0.1498 0.1336	0.1364 0.1592	0.1347	0.1330	Ave		0.1418			0.0100	7.7		20.0			
Tetrahydrofuran	0.1584 0.1188	0.1210 0.1173	0.1165 0.1328	0.1044	0.1035	Ave		0.1216			0.0100	14.4		20.0			
Chloroform	0.6121 0.4769	0.5334 0.4687	0.5043 0.5518	0.4874	0.4825	Ave		0.5146			0.2000	9.5		20.0			
1,1,1-Trichloroethane	0.3907 0.3764	0.3802 0.3610	0.3863 0.4248	0.3588	0.3661	Ave		0.3805			0.1000	5.6		20.0			
Cyclohexane	0.6174 0.6347	0.6332 0.6154	0.6564 0.6862	0.6129	0.6374	Ave		0.6367			0.1000	3.9		20.0			
Carbon tetrachloride	0.3208 0.3222	0.3255 0.3130	0.3231 0.3616	0.3071	0.3191	Ave		0.3240			0.1000	5.0		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
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	0.4109 0.4177	0.4291 0.3991	0.4295 0.4615	0.4010	0.4176	Ave		0.4208			0.0100	4.7		20.0			
Isobutyl alcohol	0.0095 0.0095	0.0091 0.0100	0.0099 0.0111	0.0081	0.0090	Ave		0.0095		*	0.0100	9.4		20.0			
Benzene	1.3619 1.1379	1.3471 1.1166	1.2583 1.2803	1.1865	1.1745	Ave		1.2329			0.5000	7.6		20.0			
1,2-Dichloroethane	0.4741 0.4037	0.4480 0.4008	0.4163 0.4668	0.4018	0.3996	Ave		0.4264			0.1000	7.4		20.0			
n-Heptane	0.4905 0.4664	0.4584 0.4370	0.4667 0.4920	0.4330	0.4446	Ave		0.4611			0.0100	4.9		20.0			
Trichloroethene	0.3438 0.2884	0.3023 0.2830	0.3001 0.3282	0.2819	0.2852	Ave		0.3016			0.2000	7.6		20.0			
Methylcyclohexane	0.4249 0.4931	0.4566 0.4767	0.4833 0.5272	0.4569	0.4841	Ave		0.4753			0.1000	6.4		20.0			
1,2-Dichloropropane	0.3806 0.3114	0.3166 0.3023	0.3142 0.3619	0.2970	0.3041	Ave		0.3235			0.1000	9.5		20.0			
1,4-Dioxane	0.0018 0.0024	0.0022 0.0023	0.0022 0.0026	0.0021	0.0022	Ave		0.0022		*	0.0100	11.0		20.0			
Dibromomethane	0.1726 0.1580	0.1745 0.1564	0.1618 0.1826	0.1547	0.1528	Ave		0.1642			0.0100	6.7		20.0			
Bromodichloromethane	0.3187 0.3277	0.3165 0.3275	0.3067 0.3841	0.3076	0.3105	Ave		0.3249			0.2000	7.8		20.0			
cis-1,3-Dichloropropene	0.3262 0.4065	0.3324 0.4128	0.3462 0.4886	0.3587	0.3740	Ave		0.3807			0.2000	14.2		20.0			
4-Methyl-2-pentanone (MIBK)	1.0903 1.2759	1.2109 1.2196	1.2320 1.3578	1.2204	1.2490	Ave		1.2320			0.1000	6.0		20.0			
Toluene	5.5703 4.5203	5.5571 4.1167	5.4822 4.5535	4.9121	4.8891	Ave		4.9502			0.4000	11.0		20.0			
trans-1,3-Dichloropropene	1.1012 1.3656	1.2222 1.3022	1.2566 1.5136	1.2587	1.3145	Ave		1.2918			0.1000	9.2		20.0			
Ethyl methacrylate	1.0084 1.3290	1.1451 1.2693	1.2245 1.4637	1.2645	1.2889	Ave		1.2492			0.0100	10.7		20.0			
1,1,2-Trichloroethane	0.9854 0.8899	1.0921 0.8150	0.9726 0.9474	0.9168	0.9135	Ave		0.9416			0.1000	8.6		20.0			
Tetrachloroethene	1.1379 0.8860	1.0568 0.8108	1.0252 0.9003	0.9316	0.9384	Ave		0.9609			0.2000	11.0		20.0			
1,3-Dichloropropane	1.9919 1.6394	1.8881 1.5526	1.7977 1.7492	1.7044	1.6621	Ave		1.7482			0.0100	8.1		20.0			
2-Hexanone	0.8243 0.9047	0.9086 0.8711	0.9027 0.9534	0.8729	0.8767	Ave		0.8893			0.1000	4.2		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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	0.7656 0.8311	0.7604 0.7903	0.8248 0.9219	0.8043	0.8232	Ave		0.8152			0.1000	6.2		20.0			
1,2-Dibromoethane (EDB)	0.9759 0.8616	0.9872 0.8306	0.9279 0.9400	0.8704	0.8651	Ave		0.9073			0.1000	6.4		20.0			
3-Chlorobenzotrifluoride	1.9141 1.5139	1.7300 1.3853	1.7441 1.3810	1.5596	1.4979	Ave		1.5907			0.0100	11.9		20.0			
Chlorobenzene	3.7359 2.9360	3.5057 2.7547	3.3592 3.0452	3.0983	3.0632	Ave		3.1873			0.5000	10.1		20.0			
4-Chlorobenzotrifluoride	1.7602 1.4166	1.6482 1.3106	1.6401 1.3278	1.5024	1.4249	Ave		1.5038			0.0100	10.9		20.0			
1,1,1,2-Tetrachloroethane	1.1225 0.9996	1.0966 0.9489	1.0413 1.0904	1.0057	1.0062	Ave		1.0389			0.0100	5.7		20.0			
Ethylbenzene	1.6196 1.6672	1.7534 1.5472	1.8359 1.7000	1.6962	1.6973	Ave		1.6896			0.1000	5.1		20.0			
m-Xylene & p-Xylene	1.9469 2.0590	2.1320 1.8861	2.2561 2.1036	2.0873	2.1024	Ave		2.0717			0.1000	5.5		20.0			
o-Xylene	1.7875 1.9631	1.9618 1.8192	2.1700 2.0438	2.0181	1.9885	Ave		1.9690			0.3000	6.2		20.0			
Styrene	2.9089 3.2190	3.4288 3.0069	3.5226 3.3091	3.3907	3.3066	Ave		3.2616			0.3000	6.4		20.0			
Bromoform	0.4690 0.4795	0.4313 0.4703	0.4499 0.5395	0.4346	0.4474	Ave		0.4652			0.1000	7.4		20.0			
2-Chlorobenzotrifluoride	1.7885 1.4787	1.7489 1.3827	1.7033 1.3749	1.5707	1.4741	Ave		1.5652			0.0100	10.5		20.0			
Isopropylbenzene	4.3653 4.6596	5.1113 4.2808	5.5491 4.6316	4.9755	5.0001	Ave		4.8217			0.1000	8.7		20.0			
1,1,2,2-Tetrachloroethane	1.4661 1.1699	1.3993 1.1182	1.3725 1.2326	1.2215	1.1808	Ave		1.2701			0.3000	9.9		20.0			
Bromobenzene	0.9000 0.8558	0.8314 0.8194	0.8380 0.9507	0.8287	0.8423	Ave		0.8583			0.0100	5.2		20.0			
trans-1,4-Dichloro-2-butene	0.2917 0.3299	0.2806 0.3207	0.2875 0.3711	0.2997	0.3010	Ave		0.3103			0.0100	9.5		20.0			
1,2,3-Trichloropropane	0.3063 0.2797	0.2926 0.2700	0.2690 0.3158	0.2674	0.2639	Ave		0.2831			0.0100	6.9		20.0			
N-Propylbenzene	0.8996 1.0031	0.9330 0.9647	1.0104 1.0875	0.9757	0.9863	Ave		0.9825			0.0100	5.7		20.0			
2-Chlorotoluene	0.7422 0.8347	0.8275 0.8182	0.8534 0.9287	0.8318	0.8446	Ave		0.8351			0.0100	6.1		20.0			
3-Chlorotoluene	0.8266 0.8699	0.8669 0.8353	0.8759 0.8984	0.8585	0.8348	Ave		0.8583			0.0100	2.9		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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	2.3645 2.7734	2.8908 2.6232	2.9957 2.8967	2.8185	2.8452	Ave		2.7760			0.0100	7.1		20.0			
4-Chlorotoluene	0.8633 0.9172	0.9746 0.8728	0.9234 0.9963	0.8946	0.9096	Ave		0.9190			0.0100	5.0		20.0			
tert-Butylbenzene	1.8741 2.3430	2.1778 2.2068	2.3521 2.4799	2.2754	2.3463	Ave		2.2569			0.0100	8.0		20.0			
1,2,4-Trimethylbenzene	2.3075 2.7925	2.8627 2.6520	2.9863 2.9459	2.8624	2.8401	Ave		2.7812			0.0100	7.8		20.0			
3,4-Dichlorobenzotrifluoride	0.9332 0.7629	0.7706 0.7120	0.8114 0.7421	0.7469	0.7246	Ave		0.7754			0.0100	9.1		20.0			
sec-Butylbenzene	2.7780 3.1978	3.2532 3.0155	3.5024 3.2789	3.1902	3.2760	Ave		3.1865			0.0100	6.7		20.0			
1,3-Dichlorobenzene	1.5731 1.4773	1.6002 1.4395	1.5858 1.6167	1.4673	1.4672	Ave		1.5284			0.6000	4.7		20.0			
4-Isopropyltoluene	2.1994 2.7400	2.7068 2.6136	2.9233 2.8630	2.7523	2.7684	Ave		2.6959			0.0100	8.2		20.0			
1,4-Dichlorobenzene	1.8395 1.4959	1.6730 1.4568	1.6062 1.6474	1.5057	1.4918	Ave		1.5895			0.5000	8.1		20.0			
2,4-Dichlorobenzotrifluoride	0.8167 0.7142	0.7458 0.6499	0.7804 0.6801	0.6991	0.6616	Ave		0.7185			0.0100	8.2		20.0			
2,5-Dichlorobenzotrifluoride	0.8953 0.7661	0.7731 0.7682	0.8004 0.7491	0.7462	0.7137	Ave		0.7765			0.0100	7.0		20.0			
n-Butylbenzene	1.9548 2.3709	2.2758 2.2727	2.5056 2.4426	2.2735	2.3594	Ave		2.3069			0.0100	7.2		20.0			
1,2-Dichlorobenzene	1.6347 1.3388	1.5012 1.3288	1.4944 1.4525	1.3452	1.3303	Ave		1.4282			0.4000	7.8		20.0			
1,2-Dibromo-3-Chloropropane	0.1072 0.1191	0.1212 0.1226	0.1194 0.1351	0.1034	0.1102	Ave		0.1173			0.0500	8.6		20.0			
2,4- & 2,5- & 2,6- Dichlorotoluene	0.7554 0.8278	0.7846 0.8399	0.9569 0.8065	0.7811	0.7733	Ave		0.8157			0.0100	7.8		20.0			
2,3- & 3,4- Dichlorotoluene	0.7045 0.7833	0.7591 0.8096	0.9510 0.7804	0.7194	0.7151	Ave		0.7778			0.0100	10.2		20.0			
1,2,4-Trichlorobenzene	0.5337 0.5349	0.5713 0.5698	0.6897 0.5692	0.4840	0.4928	Ave		0.5557			0.2000	11.5		20.0			
Hexachlorobutadiene	0.2789 0.2527	0.2957 0.2535	0.3393 0.2508	0.2366	0.2338	Ave		0.2677			0.0100	13.3		20.0			
Naphthalene	1.2233 1.4724	1.2705 1.5865	1.7478 1.5810	1.2452	1.2988	Ave		1.4282			0.0100	13.7		20.0			
1,2,3-Trichlorobenzene	0.4915 0.4124	0.4501 0.4480	0.5796 0.4500	0.3828	0.3844	Ave		0.4498			0.0100	14.2		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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	0.1695 0.1581	0.1451 0.1827	0.2185 0.1750	0.1232	0.1263	Ave		0.1623			0.0100	19.4		20.0			
2,3,6-Trichlorotoluene	0.1057 +++++	0.1323 +++++	0.2120 +++++	0.1162	0.1265	Ave		0.1496			0.0100	24.0	*	20.0			
Dibromofluoromethane (Surr)	0.2897 0.2274	0.2548 0.2230	0.2447 0.2662	0.2287	0.2299	Ave		0.2455				9.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4203 0.3099	0.3560 0.3035	0.3369 0.3556	0.3100	0.3058	Ave		0.3373				11.9		20.0			
Toluene-d8 (Surr)	4.5689 3.4832	4.1450 3.1902	4.3481 3.5716	3.8169	3.7347	Ave		3.8573				12.1		20.0			
4-Bromofluorobenzene (Surr)	1.6296 1.3602	1.5022 1.2884	1.5824 1.4505	1.4462	1.3812	Ave		1.4551				7.8		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
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151868/6	50826006.D
Level 2	IC 180-151868/8	50826008.D
Level 3	ICIS 180-151868/9	50826009.D
Level 4	IC 180-151868/10	50826010.D
Level 5	IC 180-151868/11	50826011.D
Level 6	IC 180-151868/12	50826012.D
Level 7	IC 180-151868/13	50826013.D
Level 8	IC 180-151868/14	50826014.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	13335 461015	63359 506611	139988 585297	195493	268740	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Ave	20806 669660	96975 733518	189967 886889	279657	386017	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	16232 603655	84746 663498	181809 782206	253941	356745	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	21253 700624	101243 762590	213171 893578	291582	411077	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Ave	6860 267454	33586 244127	58568 333317	118541	149495	5.00 175	25.0 200	50.0 250	75.0	100
Chloroethane	FB	Ave	11321 358728	50718 395735	99329 465079	155578	207155	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	22499 748877	111107 843233	232009 986298	318608	435665	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	16013 579992	81291 636269	174036 739174	241309	334740	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	17175 521056	70836 582513	145899 750491	219194	295395	5.00 175	25.0 200	50.0 250	75.0	100
Acrolein	FB	Ave	41531 108307	52087 117496	66358 127965	75936	92519	100 225	125 250	150 275	175	200
1,1-Dichloroethene	FB	Ave	11952 473565	60024 516257	132602 627614	192998	273818	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	13388 488054	67283 532678	141996 629046	204297	284081	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	25628 332039	51703 349354	88342 457819	125942	173687	25.0 350	50.0 400	100 500	150	200
Iodomethane	FB	Ave	18992 696716	89056 765249	190440 963985	284793	394076	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	25807 1177201	126552 1297173	288788 1607306	436105	636866	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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	5646 285911	31974 325399	70192 399041	108440	156677	5.00 175	25.0 200	50.0 250	75.0	100
Methyl acetate	FB	Ave	67684 2539904	347746 2811173	664608 3450277	1027560	1419018	25.0 875	125 1000	250 1250	375	500
Methylene Chloride	FB	Lin2	26437 510471	79338 573290	150258 715184	225319	291271	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butyl alcohol	TBA	Ave	9257 352268	39038 410928	81932 514360	122262	185374	50.0 1750	250 2000	500 2500	750	1000
Acrylonitrile	FB	Ave	65631 2452551	329204 2730347	693478 3337347	978697	1347643	50.0 1750	250 2000	500 2500	750	1000
trans-1,2-Dichloroethene	FB	Ave	13723 510637	66301 552053	141577 687878	204201	289331	5.00 175	25.0 200	50.0 250	75.0	100
Methyl tert-butyl ether	FB	Ave	29774 1204325	147150 1367672	302403 1750025	477236	664089	5.00 175	25.0 200	50.0 250	75.0	100
Hexane	FB	Ave	22257 889892	109198 948868	237492 1125958	347025	493203	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethane	FB	Ave	27303 998105	128072 1104940	273423 1377944	407919	564450	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl acetate	FB	Ave	18896 801339	92081 887283	191017 1072494	303320	437799	5.00 175	25.0 200	50.0 250	75.0	100
2,2-Dichloropropane	FB	Ave	10315 413686	48880 451339	109416 564524	164171	234514	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,2-Dichloroethene	FB	Ave	14442 550789	69819 600559	146208 760457	223289	302874	5.00 175	25.0 200	50.0 250	75.0	100
2-Butanone (MEK)	FB	Ave	34471 514894	68384 569128	136667 698551	210830	269779	25.0 350	50.0 400	100 500	150	200
Bromochloromethane	FB	Ave	6284 234034	31931 262832	62915 336595	99282	133128	5.00 175	25.0 200	50.0 250	75.0	100
Tetrahydrofuran	FB	Ave	12850 417684	51589 461621	107444 561739	153971	207145	10.0 350	50.0 400	100 500	150	200
Chloroform	FB	Ave	24828 838419	113670 922240	232542 1166838	359318	482795	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1-Trichloroethane	FB	Ave	15850 661680	81030 710348	178131 898258	264507	366328	5.00 175	25.0 200	50.0 250	75.0	100
Cyclohexane	FB	Ave	25044 1115710	134937 1210903	302702 1451032	451893	637776	5.00 175	25.0 200	50.0 250	75.0	100
Carbon tetrachloride	FB	Ave	13013 566329	69375 616016	148991 764597	226405	319309	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloropropene	FB	Ave	16668 734207	91438 785333	198075 975802	295676	417880	5.00 175	25.0 200	50.0 250	75.0	100
Isobutyl alcohol	FB	Ave	9663 417725	48239 492768	113924 588608	149085	224262	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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	55246 2000326	287091 2197241	580241 2707324	874781	1175215	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	19231 709743	95482 788760	191991 987010	296218	399895	5.00 175	25.0 200	50.0 250	75.0	100
n-Heptane	FB	Ave	19899 819932	97699 859948	215218 1040377	319252	444901	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	13948 506964	64418 556980	138404 693909	207852	285365	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	17237 866758	97305 937977	222858 1114866	336831	484430	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	15440 547361	67479 594824	144895 765352	218947	304322	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	1429 82622	9374 91547	20164 111802	31691	44562	100 3500	500 4000	1000 5000	1500	2000
Dibromomethane	FB	Ave	7003 277699	37187 307857	74626 386058	114083	152946	5.00 175	25.0 200	50.0 250	75.0	100
Bromodichloromethane	FB	Ave	12926 576102	67441 644471	141423 812136	226806	310676	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	13234 714562	70847 812298	159644 1033255	264451	374197	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	52387 1157588	122590 1320471	267134 1599371	434749	614019	25.0 350	50.0 400	100 500	150	200
Toluene	CBZ	Ave	53527 2050607	281285 2228576	594334 2681762	874948	1201786	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBZ	Ave	10582 619485	61867 704918	136231 891401	224205	323125	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBZ	Ave	9690 602921	57962 687101	132749 862044	225233	316812	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBZ	Ave	9469 403722	55277 441190	105440 557982	163298	224541	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBZ	Ave	10935 401915	53495 438898	111146 530215	165929	230665	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBZ	Ave	19141 743698	95569 840507	194887 1030200	303582	408560	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBZ	Ave	39604 820858	91984 943138	195734 1123041	310969	430988	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBZ	Ave	7357 377032	38492 427847	89414 542940	143257	202349	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBZ	Ave	9378 390862	49971 449617	100600 553588	155041	212653	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorobenzotrifluoride	CBZ	Ave	18393 686777	87568 749898	189078 813323	277802	368187	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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	35900 1331912	177451 1491257	364174 1793475	551865	752971	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorobenzotrifluoride	CBZ	Ave	16914 642626	83430 709487	177807 781989	267607	350243	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBZ	Ave	10787 453483	55507 513686	112884 642159	179137	247335	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBZ	Ave	15563 756322	88753 837593	199030 1001210	302122	417206	5.00 175	25.0 200	50.0 250	75.0	100
m-Xylene & p-Xylene	CBZ	Ave	18709 934055	107918 1021032	244588 1238884	371799	516778	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBZ	Ave	17177 890574	99302 984811	235252 1203666	359461	488783	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBZ	Ave	27953 1460286	173558 1627751	381888 1948876	603962	812783	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBZ	Ave	4507 217546	21829 254607	48771 317730	77411	109983	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorobenzotrifluoride	CBZ	Ave	17186 670799	88525 748529	184654 809757	279773	362334	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBZ	Ave	41948 2113845	258721 2317406	601591 2727755	886244	1229067	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBZ	Ave	14088 530728	70831 605346	148796 725938	217578	290248	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCB	Ave	12648 543146	66130 609774	144660 743219	218069	300450	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCB	Ave	4099 209384	22318 238659	49630 290130	78865	107372	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCB	Ave	4305 177490	23273 200908	46443 246872	70373	94129	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCB	Ave	12643 636587	74204 717909	174426 850210	256762	351814	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCB	Ave	10430 529736	65813 608876	147328 726063	218909	301246	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorotoluene	DCB	Ave	11617 552058	68954 621607	151211 702342	225916	297767	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCB	Ave	33229 1760059	229921 1952122	517168 2264532	741712	1014826	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCB	Ave	12133 582109	77519 649501	159410 778860	235437	324433	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCB	Ave	26338 1486960	173217 1642231	406052 1938716	598804	836893	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCB	Ave	32428 1772230	227690 1973541	515539 2303042	753282	1013032	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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	13115 484133	61289 529814	140073 580120	196559	258438	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCB	Ave	39041 2029430	258745 2244027	604638 2563359	839536	1168492	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCB	Ave	22108 937539	127273 1071203	273757 1263925	386149	523315	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCB	Ave	30909 1738859	215293 1944911	504672 2238219	724310	987448	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCB	Ave	25851 949324	133066 1084086	277292 1287906	396239	532103	5.00 175	25.0 200	50.0 250	75.0	100
2,4-Dichlorobenzotrifluoride	DCB	Ave	11477 453275	59316 483618	134729 531698	183967	235991	5.00 175	25.0 200	50.0 250	75.0	100
2,5-Dichlorobenzotrifluoride	DCB	Ave	12582 486163	61489 571654	138171 585601	196358	254571	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCB	Ave	27472 1504673	181007 1691227	432555 1909580	598297	841574	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCB	Ave	22973 849612	119403 988861	257985 1135542	354012	474503	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromo-3-Chloropropane	DCB	Ave	1507 75555	9637 91242	20608 105625	27203	39315	5.00 175	25.0 200	50.0 250	75.0	100
2,4- & 2,5- & 2,6- Dichlorotoluene	DCB	Ave	31847 1576122	187206 1875036	495585 1891413	616649	827426	15.0 525	75.0 600	150 750	225	300
2,3- & 3,4- Dichlorotoluene	DCB	Ave	19801 994231	120746 1204899	328345 1220209	378630	510138	10.0 350	50.0 400	100 500	150	200
1,2,4-Trichlorobenzene	DCB	Ave	7500 339446	45439 424061	119069 445017	127381	175776	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCB	Ave	3919 160392	23516 188644	58574 196056	62268	83392	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCB	Ave	17192 934428	101055 1180622	301738 1235965	327683	463258	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCB	Ave	6907 261711	35802 333363	100055 351787	100749	137103	5.00 175	25.0 200	50.0 250	75.0	100
2,4,5-Trichlorotoluene	DCB	Ave	2382 100325	11540 135933	37716 136778	32434	45065	5.00 175	25.0 200	50.0 250	75.0	100
2,3,6-Trichlorotoluene	DCB	Ave	1485 +++++	10524 +++++	36592 +++++	30574	45128	5.00 +++++	25.0 +++++	50.0 +++++	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	11752 399678	54310 438908	112824 562879	168602	230039	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	17051 544829	75876 597233	155346 751925	228530	306020	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBZ	Ave	43904 1580158	209810 1727014	471382 2103482	679876	918031	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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	15659 617045	76038 697446	171548 854277	257596	339508	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.: 180-48073-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151868/6	50826006.D
Level 2	IC 180-151868/8	50826008.D
Level 3	ICIS 180-151868/9	50826009.D
Level 4	IC 180-151868/10	50826010.D
Level 5	IC 180-151868/11	50826011.D
Level 6	IC 180-151868/12	50826012.D
Level 7	IC 180-151868/13	50826013.D
Level 8	IC 180-151868/14	50826014.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	-0.1 -3.0	3.1 13.7	-0.5	-3.3	-6.2	-3.8	40 40	40 40	40	40	40	40

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D
Lims ID: IC VSTD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Aug-2015 15:04:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD1
Misc. Info.: 180-0008300-006
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 12:16:48 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 12:16:48

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	4.274	-0.008	0	136898	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.291	-0.001	98	405648	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	88	96094	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.730	-0.002	97	140534	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.567	-0.001	89	11752	5.00	5.90	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.938	-0.001	0	17051	5.00	6.23	
$ 7 Toluene-d8 (Surr)	98	8.938	8.933	0.005	95	43904	5.00	5.92	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.574	-0.002	84	15659	5.00	5.60	
11 Dichlorodifluoromethane	85	1.608	1.627	-0.019	94	13335	5.00	5.82	
12 Chloromethane	50	1.760	1.761	-0.001	98	20806	5.00	6.18	
13 Vinyl chloride	62	1.906	1.901	0.005	72	16232	5.00	5.44	
14 Butadiene	39	1.930	1.931	-0.001	96	21253	5.00	6.03	
15 Bromomethane	94	2.228	2.236	-0.008	92	6860	5.00	5.65	
16 Chloroethane	64	2.386	2.376	0.010	96	11321	5.00	6.29	
17 Dichlorofluoromethane	67	2.660	2.661	-0.001	95	22499	5.00	5.89	
18 Trichlorofluoromethane	101	2.648	2.661	-0.013	71	16013	5.00	5.60	M
20 Ethyl ether	59	3.049	3.051	-0.002	97	17175	5.00	6.48	
21 Acrolein	56	3.220	3.233	-0.013	99	41531	100.0	105.2	
22 1,1-Dichloroethene	96	3.335	3.355	-0.020	78	11952	5.00	5.29	
23 1,1,2-Trichloro-1,2,2-trif	101	3.402	3.416	-0.014	66	13388	5.00	5.59	
24 Acetone	43	3.451	3.452	-0.001	99	25628	25.0	31.3	M
25 Iodomethane	142	3.536	3.556	-0.020	100	18992	5.00	5.64	
26 Carbon disulfide	76	3.627	3.635	-0.008	99	25807	5.00	4.92	
28 3-Chloro-1-propene	76	3.913	3.921	-0.008	88	5646	5.00	4.41	
30 Methyl acetate	43	3.938	3.945	-0.007	100	67684	25.0	27.7	
31 Methylene Chloride	84	4.126	4.152	-0.026	96	26437	5.00	4.99	
32 2-Methyl-2-propanol	59	4.406	4.413	-0.007	90	9257	50.0	60.1	
33 Acrylonitrile	53	4.515	4.517	-0.002	99	65631	50.0	55.3	
34 trans-1,2-Dichloroethene	96	4.558	4.566	-0.008	90	13723	5.00	5.59	
35 Methyl tert-butyl ether	73	4.576	4.584	-0.008	92	29774	5.00	5.24	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.991	-0.001	93	22257	5.00	5.40	
37 1,1-Dichloroethane	63	5.203	5.198	0.005	96	27303	5.00	5.65	
38 Vinyl acetate	43	5.252	5.253	-0.001	98	18896	5.00	5.21	
45 cis-1,2-Dichloroethene	96	5.951	5.953	-0.002	85	14442	5.00	5.51	
44 2,2-Dichloropropane	77	5.939	5.946	-0.007	60	10315	5.00	5.33	
46 2-Butanone (MEK)	43	5.963	5.959	0.004	97	34471	25.0	28.0	
49 Chlorobromomethane	128	6.237	6.238	-0.001	92	6284	5.00	5.46	
51 Tetrahydrofuran	42	6.249	6.257	-0.008	93	12850	10.0	13.0	
52 Chloroform	83	6.389	6.385	0.005	74	24828	5.00	5.95	
53 1,1,1-Trichloroethane	97	6.535	6.549	-0.014	91	15850	5.00	5.13	
54 Cyclohexane	56	6.614	6.616	-0.002	96	25044	5.00	4.85	
56 Carbon tetrachloride	117	6.718	6.719	-0.001	94	13013	5.00	4.95	
55 1,1-Dichloropropene	75	6.724	6.731	-0.007	91	16668	5.00	4.88	
57 Isobutyl alcohol	41	6.918	6.926	-0.008	70	9663	125.0	125.1	
58 Benzene	78	6.943	6.944	-0.001	97	55246	5.00	5.52	
59 1,2-Dichloroethane	62	7.022	7.023	-0.001	95	19231	5.00	5.56	
62 n-Heptane	43	7.314	7.309	0.005	93	19899	5.00	5.32	
64 Trichloroethene	130	7.679	7.674	0.005	92	13948	5.00	5.70	
66 Methylcyclohexane	83	7.916	7.918	-0.002	93	17237	5.00	4.47	
67 1,2-Dichloropropane	63	7.947	7.954	-0.007	90	15440	5.00	5.88	
70 1,4-Dioxane	88	8.026	8.027	-0.001	42	1429	100.0	79.0	
68 Dibromomethane	93	8.026	8.039	-0.013	95	7003	5.00	5.26	
71 Dichlorobromomethane	83	8.232	8.234	-0.002	93	12926	5.00	4.90	
74 cis-1,3-Dichloropropene	75	8.664	8.678	-0.014	65	13234	5.00	4.29	
75 4-Methyl-2-pentanone (MIBK	43	8.823	8.830	-0.007	97	52387	25.0	22.1	
76 Toluene	91	9.005	9.006	-0.001	97	53527	5.00	5.63	
77 trans-1,3-Dichloropropene	75	9.248	9.250	-0.002	96	10582	5.00	4.26	
78 Ethyl methacrylate	69	9.315	9.311	0.004	94	9690	5.00	4.04	
79 1,1,2-Trichloroethane	97	9.449	9.444	0.005	93	9469	5.00	5.23	
80 Tetrachloroethene	164	9.522	9.517	0.005	93	10935	5.00	5.92	
81 1,3-Dichloropropane	76	9.607	9.603	0.004	99	19141	5.00	5.70	
82 2-Hexanone	43	9.662	9.657	0.005	97	39604	25.0	23.2	
84 Chlorodibromomethane	129	9.814	9.816	-0.002	89	7357	5.00	4.70	
85 Ethylene Dibromide	107	9.930	9.931	-0.001	99	9378	5.00	5.38	
86 3-Chlorobenzotrifluoride	180	10.392	10.387	0.005	56	18393	5.00	6.02	
87 Chlorobenzene	112	10.416	10.418	-0.002	94	35900	5.00	5.86	
88 4-Chlorobenzotrifluoride	180	10.477	10.479	-0.002	96	16914	5.00	5.85	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.509	-0.001	87	10787	5.00	5.40	
90 Ethylbenzene	106	10.514	10.515	-0.001	98	15563	5.00	4.79	
91 m-Xylene & p-Xylene	106	10.648	10.649	-0.001	0	18709	5.00	4.70	
92 o-Xylene	106	11.025	11.026	-0.001	97	17177	5.00	4.54	
93 Styrene	104	11.049	11.051	-0.002	93	27953	5.00	4.46	
94 Bromoform	173	11.226	11.233	-0.007	96	4507	5.00	5.04	
96 2-Chlorobenzotrifluoride	180	11.305	11.294	0.011	92	17186	5.00	5.71	
97 Isopropylbenzene	105	11.396	11.397	-0.001	96	41948	5.00	4.53	
100 Bromobenzene	156	11.712	11.708	0.004	96	12648	5.00	5.24	
99 1,1,2,2-Tetrachloroethane	83	11.712	11.708	0.004	82	14088	5.00	5.77	
102 trans-1,4-Dichloro-2-buten	53	11.749	11.744	0.005	58	4099	5.00	4.70	
101 1,2,3-Trichloropropane	110	11.761	11.762	-0.001	85	4305	5.00	5.41	
103 N-Propylbenzene	120	11.810	11.811	-0.001	99	12643	5.00	4.58	
104 2-Chlorotoluene	126	11.895	11.902	-0.007	95	10430	5.00	4.44	
105 3-Chlorotoluene	126	11.968	11.963	0.005	96	11617	5.00	4.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.992	11.993	-0.001	95	33229	5.00	4.26	
107 4-Chlorotoluene	126	12.022	12.024	-0.002	98	12133	5.00	4.70	
108 tert-Butylbenzene	119	12.308	12.310	-0.002	96	26338	5.00	4.15	
110 1,2,4-Trimethylbenzene	105	12.369	12.371	-0.002	96	32428	5.00	4.15	
111 1,2-dichloro-4-(trifluorom	214	12.406	12.413	-0.007	95	13115	5.00	6.02	
112 sec-Butylbenzene	105	12.533	12.535	-0.002	96	39041	5.00	4.36	
113 1,3-Dichlorobenzene	146	12.655	12.650	0.005	94	22108	5.00	5.15	
114 4-Isopropyltoluene	119	12.692	12.687	0.005	94	30909	5.00	4.08	
115 1,4-Dichlorobenzene	146	12.752	12.754	-0.002	94	25851	5.00	5.79	
116 2,4-Dichloro-1-(triflourom	214	12.783	12.778	0.005	92	11477	5.00	5.68	
118 2,5-Dichlorobenzotrifluori	214	12.825	12.821	0.004	0	12582	5.00	5.77	
120 n-Butylbenzene	91	13.099	13.101	-0.002	98	27472	5.00	4.24	
121 1,2-Dichlorobenzene	146	13.111	13.113	-0.002	97	22973	5.00	5.72	
122 1,2-Dibromo-3-Chloropropan	75	13.920	13.904	0.016	1	1507	5.00	4.57	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.044	0.004	0	31847	15.0	13.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.463	-0.001	0	19801	10.0	9.06	
126 1,2,4-Trichlorobenzene	180	14.723	14.725	-0.002	94	7500	5.00	4.80	
127 Hexachlorobutadiene	225	14.876	14.871	0.005	90	3919	5.00	5.21	
128 Naphthalene	128	14.991	14.993	-0.002	96	17192	5.00	4.28	
129 1,2,3-Trichlorobenzene	180	15.216	15.218	-0.002	92	6907	5.00	5.46	
131 2,4,5-Trichlorotoluene	159	15.989	15.990	-0.001	0	2382	5.00	5.22	
130 2,3,6-Trichlorotoluene	159	16.092	16.094	-0.002	87	1485	5.00	3.53	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		10.0	9.24	
S 134 1,2-Dichloroethene, Total	96				0		10.0	11.1	
S 135 1,3-Dichloropropene, Total	1				0		10.0	8.55	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00139	Amount Added:	0.20	Units: uL	
voaWEE1stRest_00001	Amount Added:	0.20	Units: uL	
VOAVAPRI_00006	Amount Added:	0.20	Units: uL	
voaWKet1 Rest_00001	Amount Added:	0.80	Units: uL	
VOAACROLEINPR_00006	Amount Added:	4.00	Units: uL	
VOA8260SURR_00040	Amount Added:	0.20	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

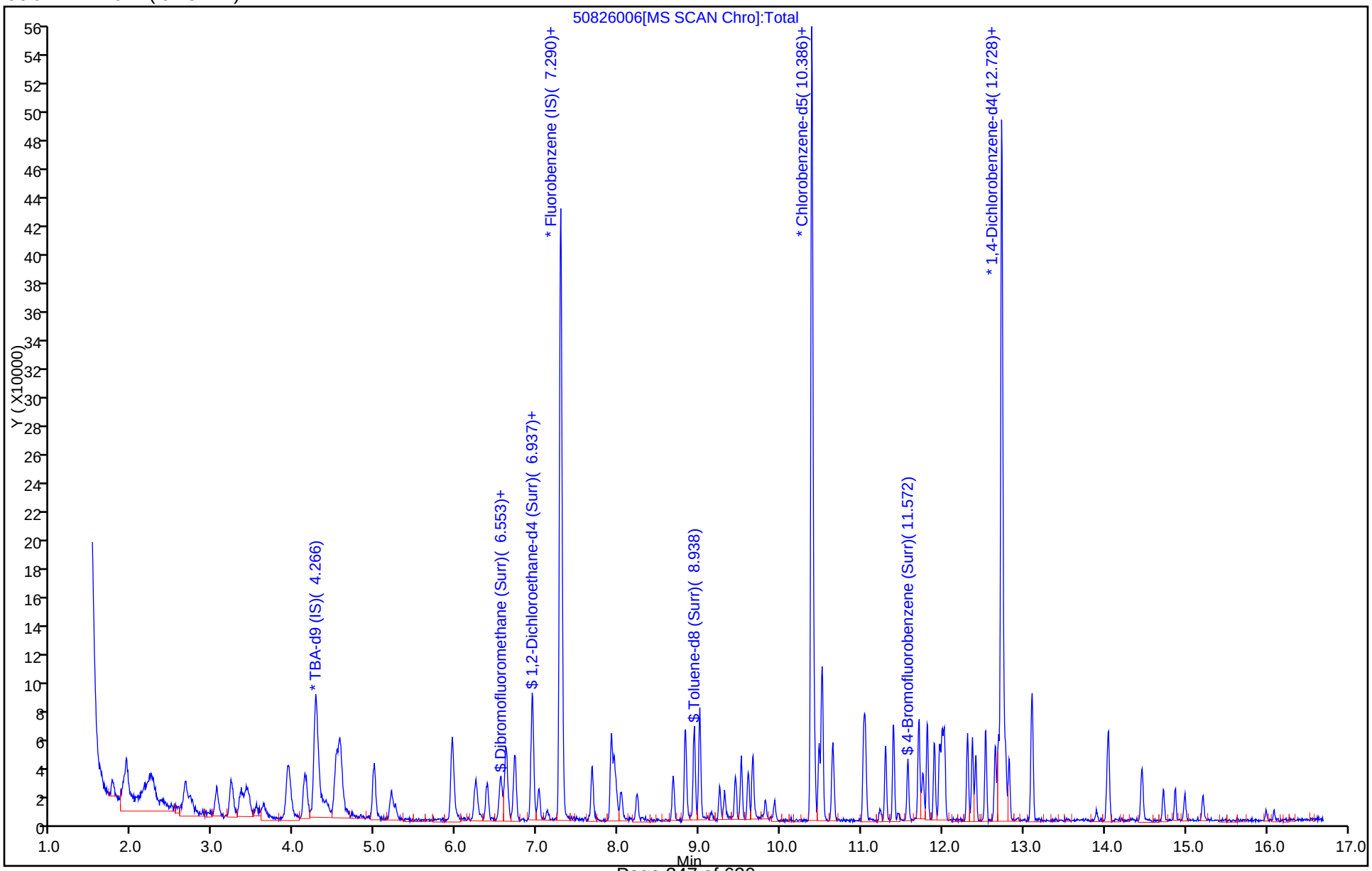
Report Date: 27-Aug-2015 12:16:53 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D

Injection Date:	26-Aug-2015 15:04:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD1			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



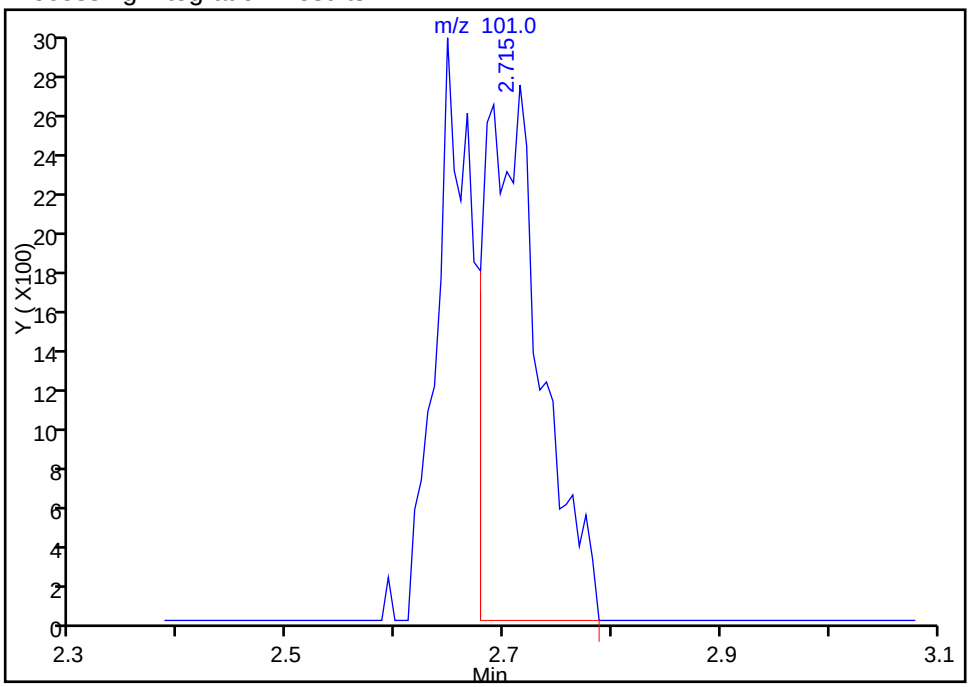
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D
Injection Date: 26-Aug-2015 15:04:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

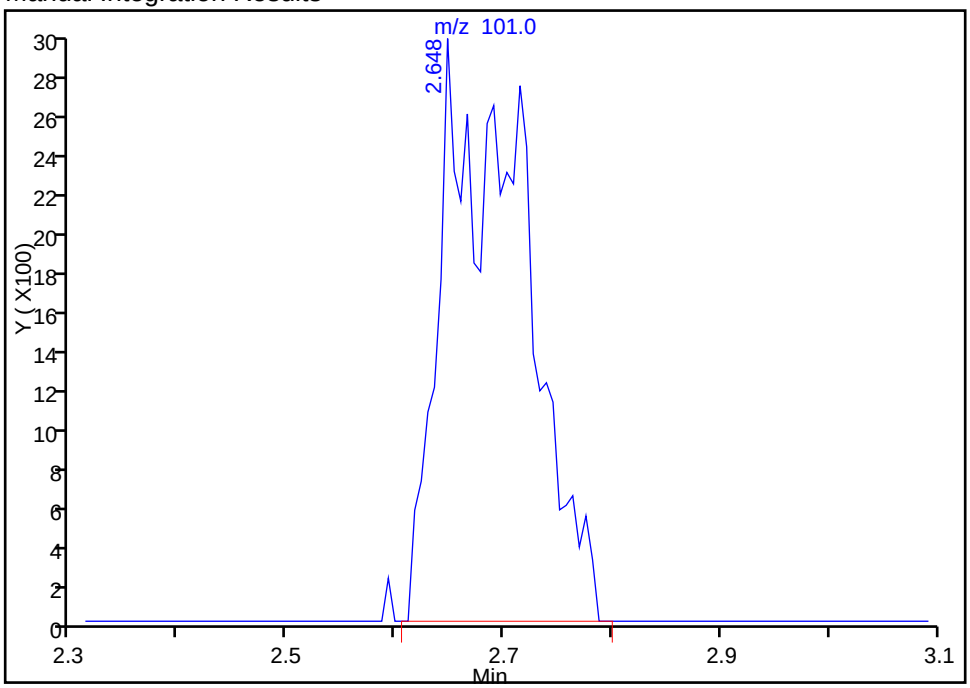
Processing Integration Results

RT: 2.71
Area: 9760
Amount: 4.111403
Amount Units: ng



Manual Integration Results

RT: 2.65
Area: 16013
Amount: 5.602773
Amount Units: ng



Reviewer: fergusond, 27-Aug-2015 10:07:27
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

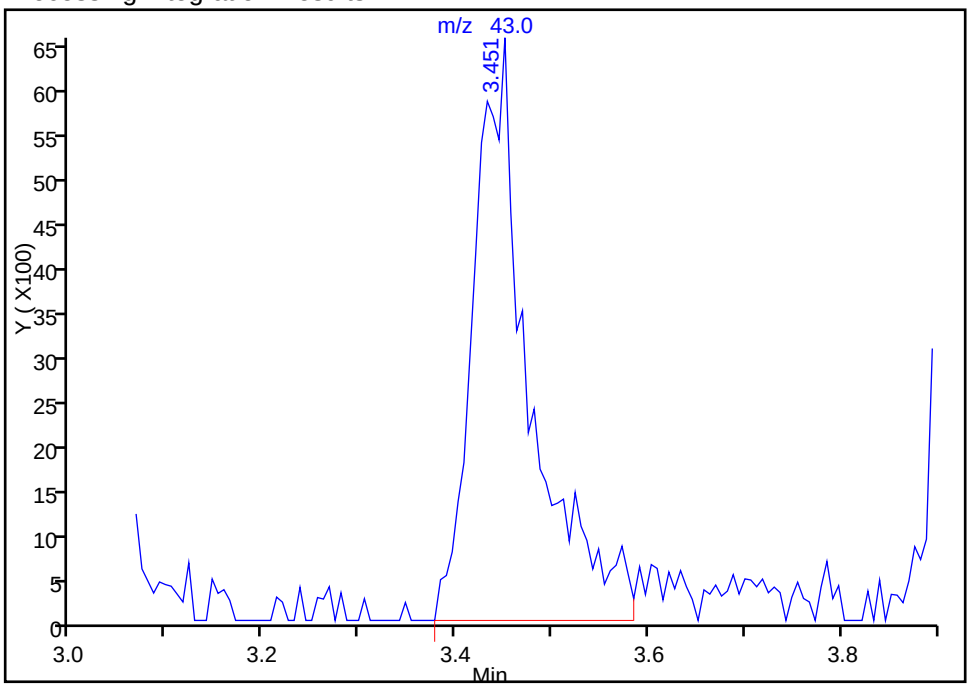
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D
Injection Date: 26-Aug-2015 15:04:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

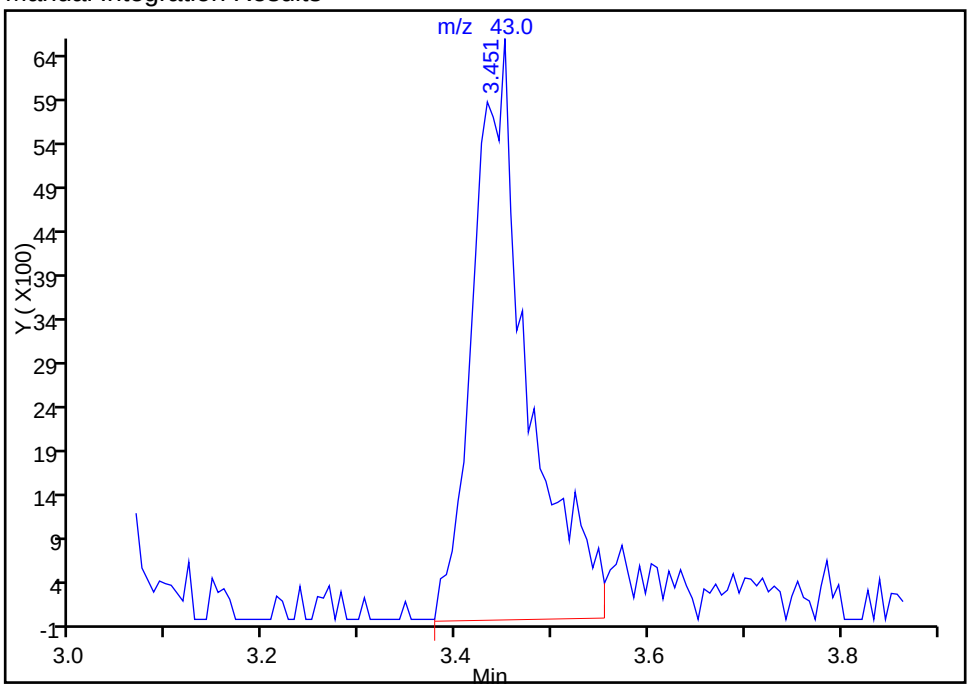
Processing Integration Results

RT: 3.45
Area: 26617
Amount: 32.323853
Amount Units: ng



Manual Integration Results

RT: 3.45
Area: 25628
Amount: 31.310834
Amount Units: ng



Reviewer: fergusond, 27-Aug-2015 10:07:27
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826008.D
Lims ID: IC VSTD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Aug-2015 15:28:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD5
Misc. Info.: 180-0008300-008
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:47:16 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 10:07:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.260	4.267	-0.007	0	150907	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	97	426232	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	89	101235	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	96	159073	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.560	0.006	92	54310	25.0	25.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	0	75876	25.0	26.4	
$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	95	209810	25.0	26.9	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	85	76038	25.0	25.8	
11 Dichlorodifluoromethane	85	1.608	1.614	-0.006	99	63359	25.0	26.3	
12 Chloromethane	50	1.760	1.766	-0.006	99	96975	25.0	27.4	
13 Vinyl chloride	62	1.893	1.894	-0.001	97	84746	25.0	27.0	
14 Butadiene	39	1.930	1.937	-0.007	97	101243	25.0	27.3	
15 Bromomethane	94	2.234	2.247	-0.013	88	33586	25.0	26.3	
16 Chloroethane	64	2.386	2.387	-0.001	99	50718	25.0	26.8	
17 Dichlorofluoromethane	67	2.660	2.661	-0.001	97	111107	25.0	27.7	
18 Trichlorofluoromethane	101	2.690	2.667	0.023	87	81291	25.0	27.1	
20 Ethyl ether	59	3.043	3.050	-0.007	93	70836	25.0	25.5	
21 Acrolein	56	3.226	3.232	-0.006	99	52087	125.0	125.6	
22 1,1-Dichloroethene	96	3.347	3.348	-0.001	93	60024	25.0	25.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.414	3.403	0.011	94	67283	25.0	26.7	
24 Acetone	43	3.451	3.445	0.006	100	51703	50.0	60.1	
25 Iodomethane	142	3.536	3.543	-0.007	98	89056	25.0	25.2	
26 Carbon disulfide	76	3.627	3.628	-0.001	100	126552	25.0	23.0	
28 3-Chloro-1-propene	76	3.913	3.920	-0.007	86	31974	25.0	23.8	
30 Methyl acetate	43	3.938	3.938	0.000	99	347746	125.0	135.3	
31 Methylene Chloride	84	4.144	4.139	0.005	97	79338	25.0	25.8	
32 2-Methyl-2-propanol	59	4.400	4.407	-0.007	87	39038	250.0	229.8	
33 Acrylonitrile	53	4.522	4.522	0.000	100	329204	250.0	264.0	
34 trans-1,2-Dichloroethene	96	4.564	4.565	-0.001	97	66301	25.0	25.7	
35 Methyl tert-butyl ether	73	4.576	4.577	-0.001	95	147150	25.0	24.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.997	-0.007	95	109198	25.0	25.2	
37 1,1-Dichloroethane	63	5.203	5.204	-0.001	96	128072	25.0	25.2	
38 Vinyl acetate	43	5.252	5.252	0.000	97	92081	25.0	24.2	
45 cis-1,2-Dichloroethene	96	5.951	5.952	-0.001	86	69819	25.0	25.4	
44 2,2-Dichloropropane	77	5.945	5.952	-0.007	58	48880	25.0	24.0	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	66	68384	50.0	52.9	
49 Chlorobromomethane	128	6.237	6.238	-0.001	91	31931	25.0	26.4	
51 Tetrahydrofuran	42	6.255	6.250	0.005	91	51589	50.0	49.8	
52 Chloroform	83	6.377	6.384	-0.007	96	113670	25.0	25.9	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	95	81030	25.0	25.0	
54 Cyclohexane	56	6.614	6.615	-0.001	96	134937	25.0	24.9	
56 Carbon tetrachloride	117	6.712	6.718	-0.006	95	69375	25.0	25.1	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	91	91438	25.0	25.5	
57 Isobutyl alcohol	41	6.925	6.925	-0.001	78	48239	625.0	594.3	
58 Benzene	78	6.943	6.943	0.000	98	287091	25.0	27.3	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	95482	25.0	26.3	
62 n-Heptane	43	7.308	7.308	0.000	93	97699	25.0	24.9	
64 Trichloroethene	130	7.673	7.679	-0.006	96	64418	25.0	25.1	
66 Methylcyclohexane	83	7.916	7.917	-0.001	96	97305	25.0	24.0	
67 1,2-Dichloropropane	63	7.953	7.947	0.006	94	67479	25.0	24.5	
70 1,4-Dioxane	88	8.032	8.026	0.006	40	9374	500.0	493.0	
68 Dibromomethane	93	8.038	8.038	0.000	94	37187	25.0	26.6	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	97	67441	25.0	24.4	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	88	70847	25.0	21.8	
75 4-Methyl-2-pentanone (MIBK	43	8.829	8.829	0.000	99	122590	50.0	49.1	
76 Toluene	91	9.005	9.006	-0.001	98	281285	25.0	28.1	
77 trans-1,3-Dichloropropene	75	9.248	9.249	-0.001	99	61867	25.0	23.7	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	91	57962	25.0	22.9	
79 1,1,2-Trichloroethane	97	9.443	9.444	-0.001	94	55277	25.0	29.0	
80 Tetrachloroethene	164	9.516	9.517	-0.001	96	53495	25.0	27.5	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	95569	25.0	27.0	
82 2-Hexanone	43	9.656	9.657	-0.001	98	91984	50.0	51.1	
84 Chlorodibromomethane	129	9.814	9.815	-0.001	91	38492	25.0	23.3	
85 Ethylene Dibromide	107	9.930	9.930	0.000	95	49971	25.0	27.2	
86 3-Chlorobenzotrifluoride	180	10.386	10.387	-0.001	69	87568	25.0	27.2	
87 Chlorobenzene	112	10.416	10.417	-0.001	94	177451	25.0	27.5	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	83430	25.0	27.4	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.508	0.000	89	55507	25.0	26.4	
90 Ethylbenzene	106	10.514	10.514	0.000	99	88753	25.0	25.9	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	107918	25.0	25.7	
92 o-Xylene	106	11.031	11.025	0.006	98	99302	25.0	24.9	
93 Styrene	104	11.049	11.050	-0.001	94	173558	25.0	26.3	
94 Bromoform	173	11.232	11.232	0.000	95	21829	25.0	23.2	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	0.000	97	88525	25.0	27.9	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	258721	25.0	26.5	
100 Bromobenzene	156	11.712	11.707	0.005	96	66130	25.0	24.2	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.707	-0.001	78	70831	25.0	27.5	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	69	22318	25.0	22.6	
101 1,2,3-Trichloropropane	110	11.761	11.762	-0.001	87	23273	25.0	25.8	
103 N-Propylbenzene	120	11.810	11.810	0.000	99	74204	25.0	23.7	
104 2-Chlorotoluene	126	11.895	11.901	-0.006	95	65813	25.0	24.8	
105 3-Chlorotoluene	126	11.962	11.968	-0.006	95	68954	25.0	25.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.992	11.993	-0.001	95	229921	25.0	26.0	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	77519	25.0	26.5	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	95	173217	25.0	24.1	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	227690	25.0	25.7	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	61289	25.0	24.8	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	95	258745	25.0	25.5	
113 1,3-Dichlorobenzene	146	12.649	12.650	-0.001	96	127273	25.0	26.2	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	97	215293	25.0	25.1	
115 1,4-Dichlorobenzene	146	12.752	12.753	-0.001	95	133066	25.0	26.3	
116 2,4-Dichloro-1-(triflourom	214	12.777	12.777	0.000	93	59316	25.0	25.9	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	61489	25.0	24.9	
120 n-Butylbenzene	91	13.099	13.100	-0.001	98	181007	25.0	24.7	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	95	119403	25.0	26.3	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	70	9637	25.0	25.8	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.042	14.049	-0.007	0	187206	75.0	72.1	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.463	-0.001	0	120746	50.0	48.8	
126 1,2,4-Trichlorobenzene	180	14.730	14.724	0.006	92	45439	25.0	25.7	
127 Hexachlorobutadiene	225	14.870	14.870	0.000	95	23516	25.0	27.6	
128 Naphthalene	128	14.991	14.992	-0.001	98	101055	25.0	22.2	
129 1,2,3-Trichlorobenzene	180	15.210	15.217	-0.007	93	35802	25.0	25.0	
131 2,4,5-Trichlorotoluene	159	15.995	15.990	0.005	0	11540	25.0	22.3	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	92	10524	25.0	22.1	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		50.0	50.6	
S 134 1,2-Dichloroethene, Total	96				0		50.0	51.1	
S 135 1,3-Dichloropropene, Total	1				0		50.0	45.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260SURR_00040	Amount Added:	1.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	1.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	1.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	1.00	Units: uL	
VOAACROLEINPR_00006	Amount Added:	5.00	Units: uL	
VOAVAPRI_00006	Amount Added:	1.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

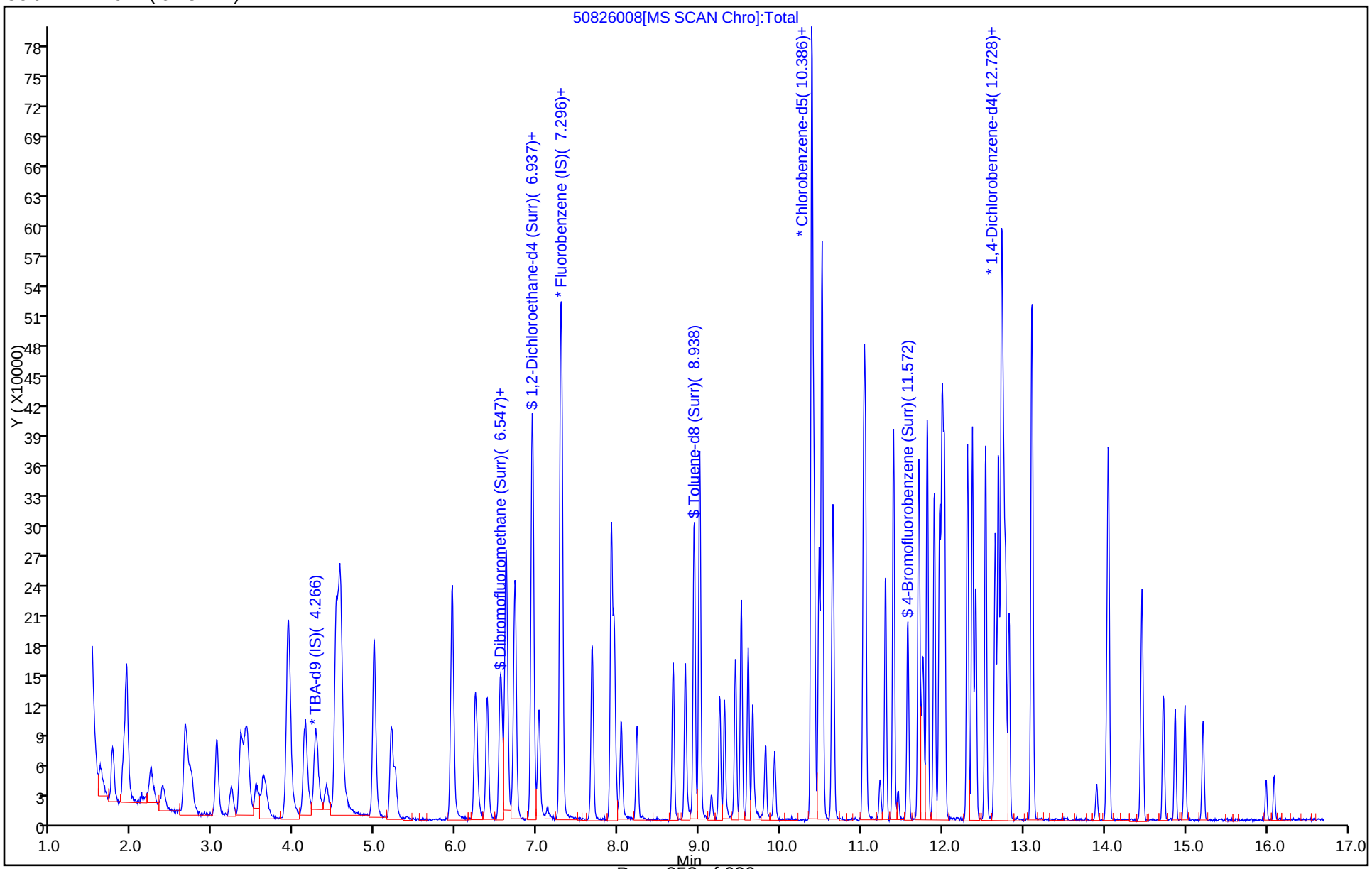
Report Date: 27-Aug-2015 11:47:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826008.D

Injection Date:	26-Aug-2015 15:28:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD5			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826009.D
Lims ID: ICIS VSTD10
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 26-Aug-2015 15:52:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS VSTD10
Misc. Info.: 180-0008300-009
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 12:15:57 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 08:52:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.274	4.274	0.000	0	157569	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.291	7.291	0.000	98	461146	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.387	0.000	88	108412	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.730	0.000	96	172635	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.567	6.567	0.000	94	112824	50.0	49.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.938	6.938	0.000	0	155346	50.0	49.9	
$ 7 Toluene-d8 (Surr)	98	8.933	8.933	0.000	94	471382	50.0	56.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.574	11.574	0.000	86	171548	50.0	54.4	
11 Dichlorodifluoromethane	85	1.627	1.627	0.000	99	139988	50.0	53.7	
12 Chloromethane	50	1.761	1.761	0.000	100	189967	50.0	49.7	
13 Vinyl chloride	62	1.901	1.901	0.000	97	181809	50.0	53.6	
14 Butadiene	39	1.931	1.931	0.000	97	213171	50.0	53.2	
15 Bromomethane	94	2.236	2.236	0.000	92	58568	50.0	42.4	
16 Chloroethane	64	2.376	2.376	0.000	99	99329	50.0	48.5	
17 Dichlorofluoromethane	67	2.661	2.661	0.000	97	232009	50.0	53.4	
18 Trichlorofluoromethane	101	2.661	2.661	0.000	43	174036	50.0	53.6	
20 Ethyl ether	59	3.051	3.051	0.000	97	145899	50.0	48.5	
21 Acrolein	56	3.233	3.233	0.000	98	66358	150.0	147.9	
22 1,1-Dichloroethene	96	3.355	3.355	0.000	95	132602	50.0	51.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.416	3.416	0.000	94	141996	50.0	52.2	
24 Acetone	43	3.452	3.452	0.000	99	88342	100.0	94.9	
25 Iodomethane	142	3.556	3.556	0.000	98	190440	50.0	49.8	
26 Carbon disulfide	76	3.635	3.635	0.000	100	288788	50.0	48.4	
28 3-Chloro-1-propene	76	3.921	3.921	0.000	88	70192	50.0	48.3	
30 Methyl acetate	43	3.945	3.945	0.000	99	664608	250.0	239.0	
31 Methylene Chloride	84	4.152	4.152	0.000	97	150258	50.0	49.8	
32 2-Methyl-2-propanol	59	4.413	4.413	0.000	87	81932	500.0	462.0	
33 Acrylonitrile	53	4.517	4.517	0.000	99	693478	500.0	514.1	
34 trans-1,2-Dichloroethene	96	4.566	4.566	0.000	96	141577	50.0	50.8	
35 Methyl tert-butyl ether	73	4.584	4.584	0.000	95	302403	50.0	46.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.991	4.991	0.000	95	237492	50.0	50.7	
37 1,1-Dichloroethane	63	5.198	5.198	0.000	96	273423	50.0	49.8	
38 Vinyl acetate	43	5.253	5.253	0.000	97	191017	50.0	46.3	
45 cis-1,2-Dichloroethene	96	5.953	5.953	0.000	86	146208	50.0	49.1	
44 2,2-Dichloropropane	77	5.946	5.946	0.000	60	109416	50.0	49.7	
46 2-Butanone (MEK)	43	5.959	5.959	0.000	73	136667	100.0	97.8	
49 Chlorobromomethane	128	6.238	6.238	0.000	91	62915	50.0	48.1	
51 Tetrahydrofuran	42	6.257	6.257	0.000	94	107444	100.0	95.8	
52 Chloroform	83	6.385	6.385	0.000	96	232542	50.0	49.0	
53 1,1,1-Trichloroethane	97	6.549	6.549	0.000	96	178131	50.0	50.8	
54 Cyclohexane	56	6.616	6.616	0.000	96	302702	50.0	51.5	
56 Carbon tetrachloride	117	6.719	6.719	0.000	95	148991	50.0	49.9	
55 1,1-Dichloropropene	75	6.731	6.731	0.000	91	198075	50.0	51.0	
57 Isobutyl alcohol	41	6.926	6.926	0.000	79	113924	1250.0	1297.3	
58 Benzene	78	6.944	6.944	0.000	98	580241	50.0	51.0	
59 1,2-Dichloroethane	62	7.023	7.023	0.000	96	191991	50.0	48.8	
62 n-Heptane	43	7.309	7.309	0.000	96	215218	50.0	50.6	
64 Trichloroethene	130	7.674	7.674	0.000	97	138404	50.0	49.8	
66 Methylcyclohexane	83	7.918	7.918	0.000	96	222858	50.0	50.8	
67 1,2-Dichloropropane	63	7.954	7.954	0.000	95	144895	50.0	48.6	
70 1,4-Dioxane	88	8.027	8.027	0.000	48	20164	1000.0	980.3	
68 Dibromomethane	93	8.039	8.039	0.000	96	74626	50.0	49.3	
71 Dichlorobromomethane	83	8.234	8.234	0.000	98	141423	50.0	47.2	
74 cis-1,3-Dichloropropene	75	8.678	8.678	0.000	90	159644	50.0	45.5	
75 4-Methyl-2-pentanone (MIBK	43	8.830	8.830	0.000	99	267134	100.0	100.0	
76 Toluene	91	9.006	9.006	0.000	98	594334	50.0	55.4	
77 trans-1,3-Dichloropropene	75	9.250	9.250	0.000	98	136231	50.0	48.6	
78 Ethyl methacrylate	69	9.311	9.311	0.000	94	132749	50.0	49.0	
79 1,1,2-Trichloroethane	97	9.444	9.444	0.000	94	105440	50.0	51.6	
80 Tetrachloroethene	164	9.517	9.517	0.000	95	111146	50.0	53.3	
81 1,3-Dichloropropane	76	9.603	9.603	0.000	98	194887	50.0	51.4	
82 2-Hexanone	43	9.657	9.657	0.000	99	195734	100.0	101.5	
84 Chlorodibromomethane	129	9.816	9.816	0.000	89	89414	50.0	50.6	
85 Ethylene Dibromide	107	9.931	9.931	0.000	100	100600	50.0	51.1	
86 3-Chlorobenzotrifluoride	180	10.387	10.387	0.000	86	189078	50.0	54.8	
87 Chlorobenzene	112	10.418	10.418	0.000	93	364174	50.0	52.7	
88 4-Chlorobenzotrifluoride	180	10.479	10.479	0.000	96	177807	50.0	54.5	
89 1,1,1,2-Tetrachloroethane	131	10.509	10.509	0.000	91	112884	50.0	50.1	
90 Ethylbenzene	106	10.515	10.515	0.000	99	199030	50.0	54.3	
91 m-Xylene & p-Xylene	106	10.649	10.649	0.000	0	244588	50.0	54.5	
92 o-Xylene	106	11.026	11.026	0.000	97	235252	50.0	55.1	
93 Styrene	104	11.051	11.051	0.000	95	381888	50.0	54.0	
94 Bromoform	173	11.233	11.233	0.000	96	48771	50.0	48.4	
96 2-Chlorobenzotrifluoride	180	11.294	11.294	0.000	96	184654	50.0	54.4	
97 Isopropylbenzene	105	11.397	11.397	0.000	97	601591	50.0	57.5	
100 Bromobenzene	156	11.708	11.708	0.000	94	144660	50.0	48.8	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.708	0.000	77	148796	50.0	54.0	
102 trans-1,4-Dichloro-2-buten	53	11.744	11.744	0.000	79	49630	50.0	46.3	
101 1,2,3-Trichloropropane	110	11.762	11.762	0.000	88	46443	50.0	47.5	
103 N-Propylbenzene	120	11.811	11.811	0.000	99	174426	50.0	51.4	
104 2-Chlorotoluene	126	11.902	11.902	0.000	96	147328	50.0	51.1	
105 3-Chlorotoluene	126	11.963	11.963	0.000	96	151211	50.0	51.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.993	11.993	0.000	95	517168	50.0	54.0	
107 4-Chlorotoluene	126	12.024	12.024	0.000	98	159410	50.0	50.2	
108 tert-Butylbenzene	119	12.310	12.310	0.000	95	406052	50.0	52.1	
110 1,2,4-Trimethylbenzene	105	12.371	12.371	0.000	98	515539	50.0	53.7	
111 1,2-dichloro-4-(trifluorom	214	12.413	12.413	0.000	98	140073	50.0	52.3	
112 sec-Butylbenzene	105	12.535	12.535	0.000	95	604638	50.0	55.0	
113 1,3-Dichlorobenzene	146	12.650	12.650	0.000	98	273757	50.0	51.9	
114 4-Isopropyltoluene	119	12.687	12.687	0.000	97	504672	50.0	54.2	
115 1,4-Dichlorobenzene	146	12.754	12.754	0.000	93	277292	50.0	50.5	
116 2,4-Dichloro-1-(triflourom	214	12.778	12.778	0.000	96	134729	50.0	54.3	
118 2,5-Dichlorobenzotrifluori	214	12.821	12.821	0.000	0	138171	50.0	51.5	
120 n-Butylbenzene	91	13.101	13.101	0.000	98	432555	50.0	54.3	
121 1,2-Dichlorobenzene	146	13.113	13.113	0.000	95	257985	50.0	52.3	
122 1,2-Dibromo-3-Chloropropan	75	13.904	13.904	0.000	76	20608	50.0	50.9	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.044	14.044	0.000	0	495585	150.0	176.0	
125 2,3- & 3,4- Dichlorotoluen	125	14.463	14.463	0.000	0	328345	100.0	122.3	
126 1,2,4-Trichlorobenzene	180	14.725	14.725	0.000	93	119069	50.0	62.1	
127 Hexachlorobutadiene	225	14.871	14.871	0.000	97	58574	50.0	63.4	
128 Naphthalene	128	14.993	14.993	0.000	97	301738	50.0	61.2	
129 1,2,3-Trichlorobenzene	180	15.218	15.218	0.000	95	100055	50.0	64.4	
131 2,4,5-Trichlorotoluene	159	15.990	15.990	0.000	0	37716	50.0	67.3	
130 2,3,6-Trichlorotoluene	159	16.094	16.094	0.000	94	36592	50.0	70.8	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	109.6	
S 134 1,2-Dichloroethene, Total	96				0		100.0	99.8	
S 135 1,3-Dichloropropene, Total	1				0		100.0	94.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACROLEINPR_00006	Amount Added:	6.00	Units: uL	
VOAVAPRI_00006	Amount Added:	2.00	Units: uL	
VOA8260SURR_00040	Amount Added:	2.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	2.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	2.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	2.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

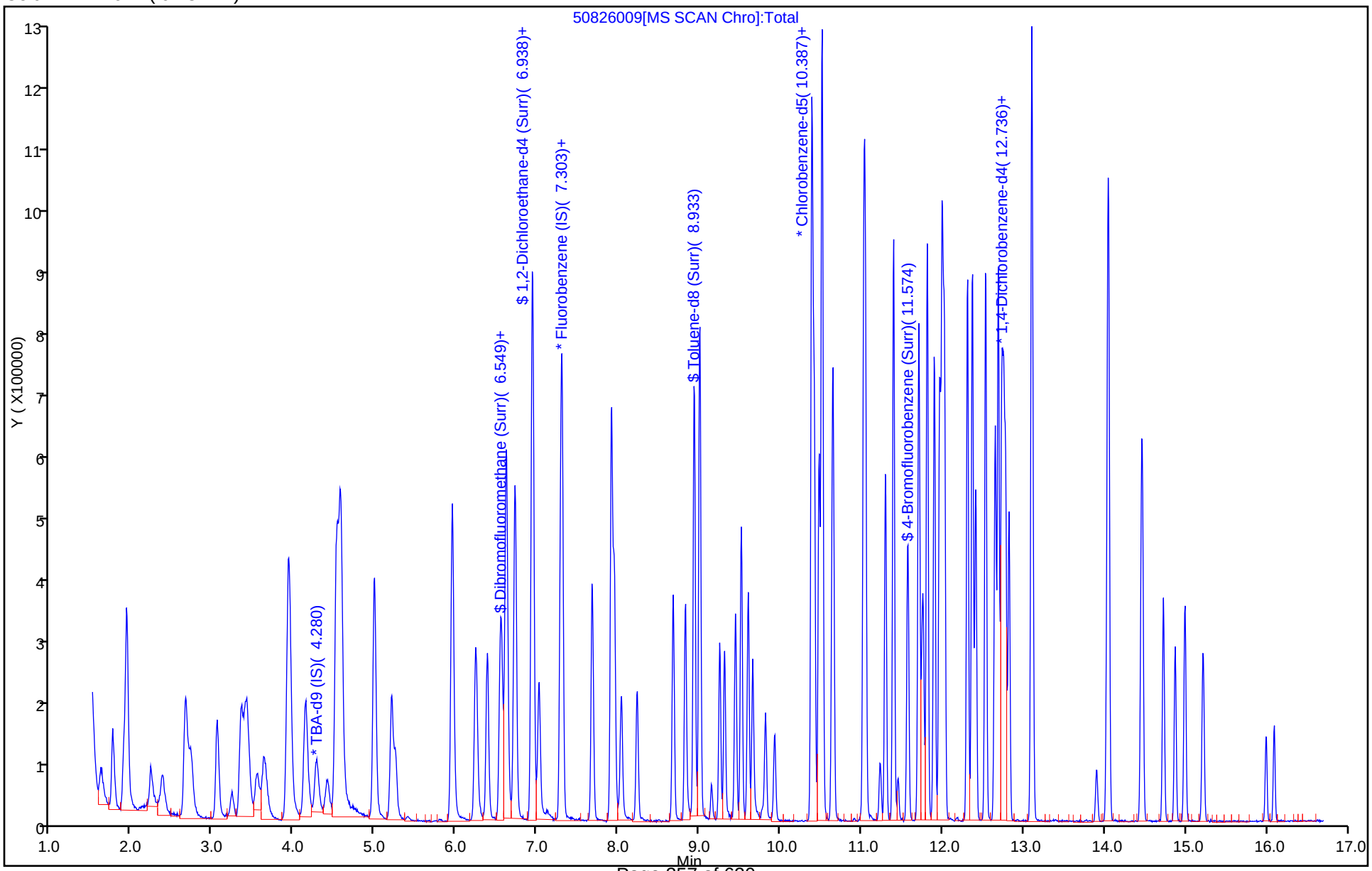
Report Date: 27-Aug-2015 12:16:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826009.D

Injection Date:	26-Aug-2015 15:52:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	ICIS VSTD10			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826010.D
Lims ID: IC VSTD15
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Aug-2015 16:16:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD15
Misc. Info.: 180-0008300-010
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:49:37 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 10:26:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.267	4.267	0.000	0	149384	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	98	491519	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.387	0.000	87	118747	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.729	12.729	0.000	96	175441	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.560	6.560	0.000	93	168602	75.0	69.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	0	228530	75.0	68.9	
$ 7 Toluene-d8 (Surr)	98	8.939	8.939	0.000	95	679876	75.0	74.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.573	0.000	87	257596	75.0	74.5	
11 Dichlorodifluoromethane	85	1.614	1.614	0.000	99	195493	75.0	70.4	
12 Chloromethane	50	1.766	1.766	0.000	99	279657	75.0	68.6	
13 Vinyl chloride	62	1.894	1.894	0.000	98	253941	75.0	70.2	
14 Butadiene	39	1.937	1.937	0.000	95	291582	75.0	68.3	
15 Bromomethane	94	2.247	2.247	0.000	90	118541	75.0	80.5	
16 Chloroethane	64	2.387	2.387	0.000	99	155578	75.0	71.3	
17 Dichlorofluoromethane	67	2.661	2.661	0.000	99	318608	75.0	68.8	
18 Trichlorofluoromethane	101	2.667	2.667	0.000	59	241309	75.0	69.7	
20 Ethyl ether	59	3.050	3.050	0.000	98	219194	75.0	68.3	
21 Acrolein	56	3.232	3.232	0.000	99	75936	175.0	158.8	
22 1,1-Dichloroethene	96	3.348	3.348	0.000	94	192998	75.0	70.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.403	3.403	0.000	94	204297	75.0	70.4	
24 Acetone	43	3.445	3.445	0.000	98	125942	150.0	127.0	
25 Iodomethane	142	3.543	3.543	0.000	99	284793	75.0	69.8	
26 Carbon disulfide	76	3.628	3.628	0.000	100	436105	75.0	68.6	
28 3-Chloro-1-propene	76	3.920	3.920	0.000	88	108440	75.0	69.9	
30 Methyl acetate	43	3.938	3.938	0.000	99	1027560	375.0	346.7	
31 Methylene Chloride	84	4.139	4.139	0.000	97	225319	75.0	72.5	
32 2-Methyl-2-propanol	59	4.407	4.407	0.000	87	122262	750.0	727.2	
33 Acrylonitrile	53	4.522	4.522	0.000	98	978697	750.0	680.6	
34 trans-1,2-Dichloroethene	96	4.565	4.565	0.000	95	204201	75.0	68.7	
35 Methyl tert-butyl ether	73	4.577	4.577	0.000	96	477236	75.0	69.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.997	4.997	0.000	96	347025	75.0	69.5	
37 1,1-Dichloroethane	63	5.204	5.204	0.000	97	407919	75.0	69.7	
38 Vinyl acetate	43	5.252	5.252	0.000	97	303320	75.0	69.0	
45 cis-1,2-Dichloroethene	96	5.952	5.952	0.000	84	223289	75.0	70.3	
44 2,2-Dichloropropane	77	5.952	5.952	0.000	58	164171	75.0	70.0	
46 2-Butanone (MEK)	43	5.964	5.964	0.000	78	210830	150.0	141.5	
49 Chlorobromomethane	128	6.238	6.238	0.000	92	99282	75.0	71.2	
51 Tetrahydrofuran	42	6.250	6.250	0.000	91	153971	150.0	128.8	
52 Chloroform	83	6.384	6.384	0.000	97	359318	75.0	71.0	
53 1,1,1-Trichloroethane	97	6.542	6.542	0.000	96	264507	75.0	70.7	
54 Cyclohexane	56	6.615	6.615	0.000	97	451893	75.0	72.2	
56 Carbon tetrachloride	117	6.718	6.718	0.000	96	226405	75.0	71.1	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	92	295676	75.0	71.5	
57 Isobutyl alcohol	41	6.925	6.925	0.000	92	149085	1875.0	1592.8	
58 Benzene	78	6.943	6.943	0.000	98	874781	75.0	72.2	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	97	296218	75.0	70.7	
62 n-Heptane	43	7.308	7.308	0.000	96	319252	75.0	70.4	
64 Trichloroethene	130	7.679	7.679	0.000	97	207852	75.0	70.1	
66 Methylcyclohexane	83	7.917	7.917	0.000	96	336831	75.0	72.1	
67 1,2-Dichloropropane	63	7.947	7.947	0.000	94	218947	75.0	68.8	
70 1,4-Dioxane	88	8.026	8.026	0.000	39	31691	1500.0	1445.4	
68 Dibromomethane	93	8.038	8.038	0.000	96	114083	75.0	70.7	
71 Dichlorobromomethane	83	8.233	8.233	0.000	98	226806	75.0	71.0	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	91	264451	75.0	70.7	
75 4-Methyl-2-pentanone (MIBK	43	8.829	8.829	0.000	99	434749	150.0	148.6	
76 Toluene	91	9.006	9.006	0.000	98	874948	75.0	74.4	
77 trans-1,3-Dichloropropene	75	9.249	9.249	0.000	99	224205	75.0	73.1	
78 Ethyl methacrylate	69	9.310	9.310	0.000	93	225233	75.0	75.9	
79 1,1,2-Trichloroethane	97	9.444	9.444	0.000	94	163298	75.0	73.0	
80 Tetrachloroethene	164	9.517	9.517	0.000	95	165929	75.0	72.7	
81 1,3-Dichloropropane	76	9.602	9.602	0.000	98	303582	75.0	73.1	
82 2-Hexanone	43	9.657	9.657	0.000	99	310969	150.0	147.2	
84 Chlorodibromomethane	129	9.815	9.815	0.000	91	143257	75.0	74.0	
85 Ethylene Dibromide	107	9.930	9.930	0.000	99	155041	75.0	71.9	
86 3-Chlorobenzotrifluoride	180	10.387	10.387	0.000	91	277802	75.0	73.5	
87 Chlorobenzene	112	10.417	10.417	0.000	93	551865	75.0	72.9	
88 4-Chlorobenzotrifluoride	180	10.478	10.478	0.000	95	267607	75.0	74.9	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.508	0.000	92	179137	75.0	72.6	
90 Ethylbenzene	106	10.514	10.514	0.000	99	302122	75.0	75.3	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	371799	75.0	75.6	
92 o-Xylene	106	11.025	11.025	0.000	97	359461	75.0	76.9	
93 Styrene	104	11.050	11.050	0.000	95	603962	75.0	78.0	
94 Bromoform	173	11.232	11.232	0.000	96	77411	75.0	70.1	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	0.000	96	279773	75.0	75.3	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	886244	75.0	77.4	
100 Bromobenzene	156	11.707	11.707	0.000	95	218069	75.0	72.4	
99 1,1,2,2-Tetrachloroethane	83	11.707	11.707	0.000	76	217578	75.0	72.1	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	72	78865	75.0	72.4	
101 1,2,3-Trichloropropane	110	11.762	11.762	0.000	88	70373	75.0	70.8	
103 N-Propylbenzene	120	11.810	11.810	0.000	99	256762	75.0	74.5	
104 2-Chlorotoluene	126	11.901	11.901	0.000	96	218909	75.0	74.7	
105 3-Chlorotoluene	126	11.968	11.968	0.000	96	225916	75.0	75.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.993	11.993	0.000	94	741712	75.0	76.1	
107 4-Chlorotoluene	126	12.023	12.023	0.000	98	235437	75.0	73.0	
108 tert-Butylbenzene	119	12.309	12.309	0.000	94	598804	75.0	75.6	
110 1,2,4-Trimethylbenzene	105	12.370	12.370	0.000	98	753282	75.0	77.2	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	196559	75.0	72.2	
112 sec-Butylbenzene	105	12.534	12.534	0.000	95	839536	75.0	75.1	
113 1,3-Dichlorobenzene	146	12.650	12.650	0.000	97	386149	75.0	72.0	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	97	724310	75.0	76.6	
115 1,4-Dichlorobenzene	146	12.753	12.753	0.000	93	396239	75.0	71.0	
116 2,4-Dichloro-1-(triflourom	214	12.777	12.777	0.000	96	183967	75.0	73.0	
118 2,5-Dichlorobenzotrifluori	214	12.820	12.820	0.000	0	196358	75.0	72.1	
120 n-Butylbenzene	91	13.100	13.100	0.000	98	598297	75.0	73.9	
121 1,2-Dichlorobenzene	146	13.112	13.112	0.000	95	354012	75.0	70.6	
122 1,2-Dibromo-3-Chloropropan	75	13.897	13.897	0.000	77	27203	75.0	66.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.049	14.049	0.000	0	616649	225.0	215.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.463	14.463	0.000	0	378630	150.0	138.7	
126 1,2,4-Trichlorobenzene	180	14.724	14.724	0.000	95	127381	75.0	65.3	
127 Hexachlorobutadiene	225	14.870	14.870	0.000	96	62268	75.0	66.3	
128 Naphthalene	128	14.992	14.992	0.000	98	327683	75.0	65.4	
129 1,2,3-Trichlorobenzene	180	15.217	15.217	0.000	94	100749	75.0	63.8	
131 2,4,5-Trichlorotoluene	159	15.990	15.990	0.000	0	32434	75.0	57.0	
130 2,3,6-Trichlorotoluene	159	16.093	16.093	0.000	92	30574	75.0	58.2	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		150.0	139.0	
S 133 Xylenes, Total	106				0		150.0	152.4	
S 135 1,3-Dichloropropene, Total	1				0		150.0	143.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAVAPRI_00006	Amount Added:	3.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	3.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	3.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	3.00	Units: uL	
VOA8260SURR_00040	Amount Added:	3.00	Units: uL	
VOAACROLEINPR_00006	Amount Added:	7.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

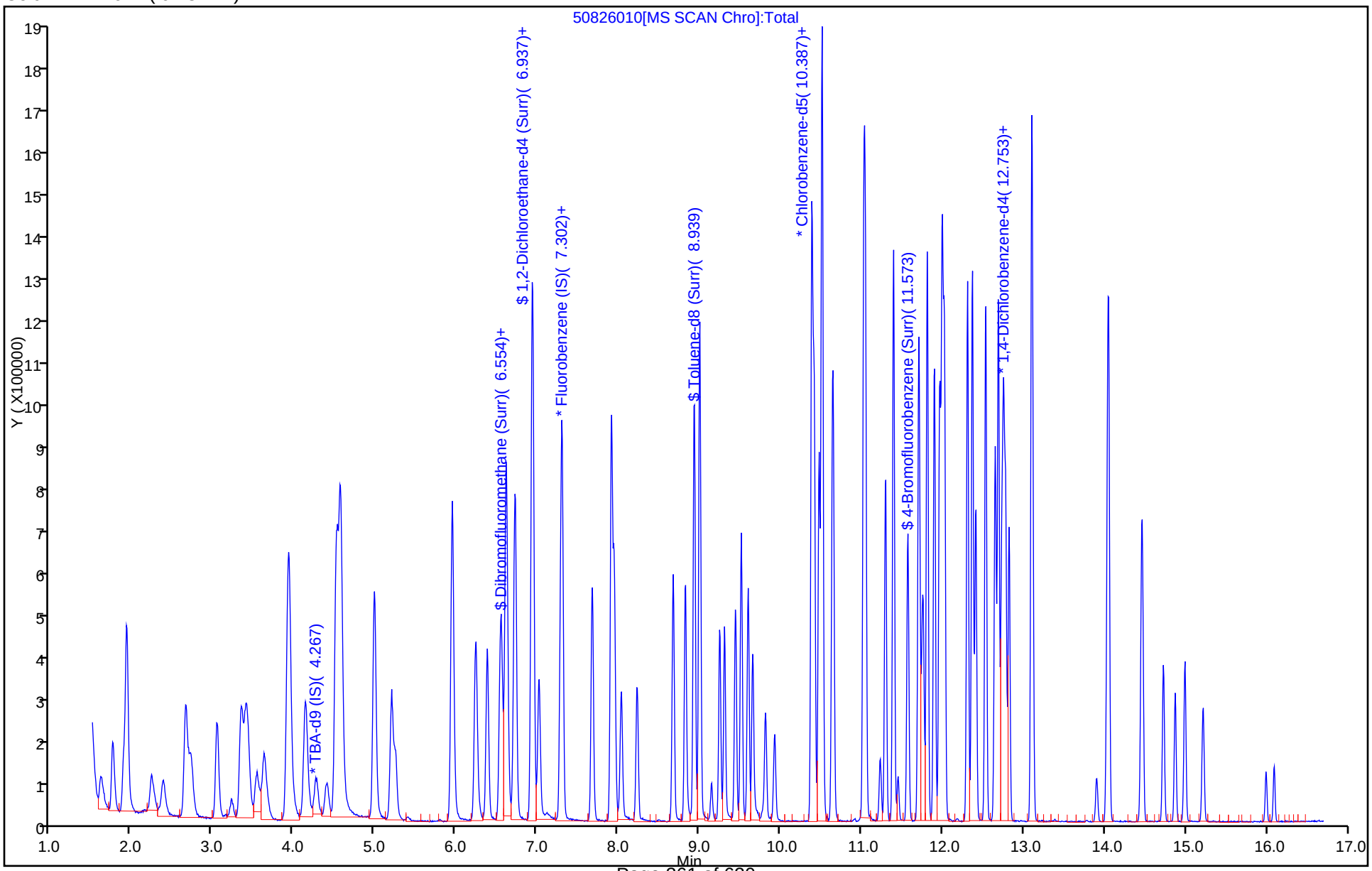
Report Date: 27-Aug-2015 11:49:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826010.D

Injection Date:	26-Aug-2015 16:16:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD15			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826011.D
Lims ID: IC VSTD20
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 26-Aug-2015 16:40:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD20
Misc. Info.: 180-0008300-011
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:44:05 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 10:30:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.272	4.267	0.005	0	167321	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	500323	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	85	122904	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	95	178343	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.560	0.006	94	230039	100.0	93.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.931	0.006	0	306020	100.0	90.7	
$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	95	918031	100.0	96.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	86	339508	100.0	94.9	
11 Dichlorodifluoromethane	85	1.614	1.614	0.000	99	268740	100.0	95.1	
12 Chloromethane	50	1.766	1.766	0.000	99	386017	100.0	93.0	
13 Vinyl chloride	62	1.900	1.894	0.006	98	356745	100.0	96.9	
14 Butadiene	39	1.936	1.937	-0.001	97	411077	100.0	94.5	
15 Bromomethane	94	2.240	2.247	-0.007	90	149495	100.0	99.8	
16 Chloroethane	64	2.386	2.387	-0.001	99	207155	100.0	93.3	
17 Dichlorofluoromethane	67	2.666	2.661	0.005	97	435665	100.0	92.4	
18 Trichlorofluoromethane	101	2.715	2.667	0.048	97	334740	100.0	95.0	
20 Ethyl ether	59	3.049	3.050	-0.001	97	295395	100.0	90.4	
21 Acrolein	56	3.226	3.232	-0.006	98	92519	200.0	190.1	
22 1,1-Dichloroethene	96	3.353	3.348	0.005	95	273818	100.0	98.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.414	3.403	0.011	93	284081	100.0	96.2	
24 Acetone	43	3.439	3.445	-0.006	99	173687	200.0	172.0	
25 Iodomethane	142	3.536	3.543	-0.007	98	394076	100.0	94.9	
26 Carbon disulfide	76	3.627	3.628	-0.001	100	636866	100.0	98.4	
28 3-Chloro-1-propene	76	3.925	3.920	0.005	88	156677	100.0	99.3	
30 Methyl acetate	43	3.938	3.938	0.000	99	1419018	500.0	470.4	
31 Methylene Chloride	84	4.138	4.139	-0.001	97	291271	100.0	93.8	
32 2-Methyl-2-propanol	59	4.406	4.407	-0.001	90	185374	1000.0	984.3	
33 Acrylonitrile	53	4.522	4.522	0.000	99	1347643	1000.0	920.7	
34 trans-1,2-Dichloroethene	96	4.564	4.565	-0.001	95	289331	100.0	95.6	
35 Methyl tert-butyl ether	73	4.582	4.577	0.005	96	664089	100.0	94.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.997	-0.007	97	493203	100.0	97.1	
37 1,1-Dichloroethane	63	5.203	5.204	-0.001	96	564450	100.0	94.7	
38 Vinyl acetate	43	5.252	5.252	0.000	97	437799	100.0	97.9	
44 2,2-Dichloropropane	77	5.945	5.952	-0.007	78	234514	100.0	98.2	
45 cis-1,2-Dichloroethene	96	5.951	5.952	-0.001	85	302874	100.0	93.7	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	62	269779	200.0	177.9	
49 Chlorobromomethane	128	6.237	6.238	-0.001	92	133128	100.0	93.8	
51 Tetrahydrofuran	42	6.249	6.250	-0.001	91	207145	200.0	170.2	
52 Chloroform	83	6.383	6.384	-0.001	96	482795	100.0	93.8	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	97	366328	100.0	96.2	
54 Cyclohexane	56	6.614	6.615	-0.001	96	637776	100.0	100.1	
56 Carbon tetrachloride	117	6.718	6.718	0.000	94	319309	100.0	98.5	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	91	417880	100.0	99.2	
57 Isobutyl alcohol	41	6.924	6.925	-0.001	92	224262	2500.0	2353.8	
58 Benzene	78	6.943	6.943	0.000	98	1175215	100.0	95.3	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	399895	100.0	93.7	
62 n-Heptane	43	7.308	7.308	0.000	97	444901	100.0	96.4	
64 Trichloroethene	130	7.679	7.679	0.000	96	285365	100.0	94.6	
66 Methylcyclohexane	83	7.916	7.917	-0.001	96	484430	100.0	101.8	
67 1,2-Dichloropropane	63	7.947	7.947	-0.001	94	304322	100.0	94.0	
70 1,4-Dioxane	88	8.026	8.026	0.000	40	44562	2000.0	1996.7	
68 Dibromomethane	93	8.038	8.038	0.000	97	152946	100.0	93.1	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	97	310676	100.0	95.6	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	90	374197	100.0	98.2	
75 4-Methyl-2-pentanone (MIBK	43	8.829	8.829	0.000	99	614019	200.0	202.8	
76 Toluene	91	9.005	9.006	-0.001	98	1201786	100.0	98.8	
77 trans-1,3-Dichloropropene	75	9.254	9.249	0.005	99	323125	100.0	101.8	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	94	316812	100.0	103.2	
79 1,1,2-Trichloroethane	97	9.443	9.444	-0.001	94	224541	100.0	97.0	
80 Tetrachloroethene	164	9.516	9.517	-0.001	95	230665	100.0	97.7	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	408560	100.0	95.1	
82 2-Hexanone	43	9.656	9.657	-0.001	99	430988	200.0	197.2	
84 Chlorodibromomethane	129	9.820	9.815	0.005	89	202349	100.0	101.0	
85 Ethylene Dibromide	107	9.930	9.930	0.000	100	212653	100.0	95.3	
86 3-Chlorobenzotrifluoride	180	10.386	10.387	-0.001	91	368187	100.0	94.2	
87 Chlorobenzene	112	10.416	10.417	-0.001	93	752971	100.0	96.1	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	350243	100.0	94.7	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.508	0.000	91	247335	100.0	96.9	
90 Ethylbenzene	106	10.520	10.514	0.006	99	417206	100.0	100.5	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	516778	100.0	101.5	
92 o-Xylene	106	11.031	11.025	0.006	97	488783	100.0	101.0	
93 Styrene	104	11.049	11.050	-0.001	95	812783	100.0	101.4	
94 Bromoform	173	11.232	11.232	0.000	96	109983	100.0	96.2	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	-0.001	95	362334	100.0	94.2	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	1229067	100.0	103.7	
100 Bromobenzene	156	11.706	11.707	-0.001	95	300450	100.0	98.1	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.707	-0.001	76	290248	100.0	93.0	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	75	107372	100.0	97.0	
101 1,2,3-Trichloropropane	110	11.767	11.762	0.005	84	94129	100.0	93.2	
103 N-Propylbenzene	120	11.816	11.810	0.006	99	351814	100.0	100.4	
104 2-Chlorotoluene	126	11.901	11.901	0.000	96	301246	100.0	101.1	
105 3-Chlorotoluene	126	11.968	11.968	0.000	95	297767	100.0	97.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.992	11.993	-0.001	94	1014826	100.0	102.5	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	324433	100.0	99.0	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	94	836893	100.0	104.0	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	1013032	100.0	102.1	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	258438	100.0	93.4	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	95	1168492	100.0	102.8	
113 1,3-Dichlorobenzene	146	12.649	12.650	-0.001	97	523315	100.0	96.0	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	96	987448	100.0	102.7	
115 1,4-Dichlorobenzene	146	12.752	12.753	-0.001	94	532103	100.0	93.9	
116 2,4-Dichloro-1-(triflourom	214	12.777	12.777	0.000	95	235991	100.0	92.1	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	254571	100.0	91.9	
120 n-Butylbenzene	91	13.099	13.100	-0.001	98	841574	100.0	102.3	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	94	474503	100.0	93.1	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	77	39315	100.0	94.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.042	14.049	-0.007	0	827426	300.0	284.4	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.463	-0.001	0	510138	200.0	183.9	
126 1,2,4-Trichlorobenzene	180	14.723	14.724	-0.001	94	175776	100.0	88.7	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	97	83392	100.0	87.3	
128 Naphthalene	128	14.991	14.992	-0.001	98	463258	100.0	90.9	
129 1,2,3-Trichlorobenzene	180	15.210	15.217	-0.007	96	137103	100.0	85.4	
131 2,4,5-Trichlorotoluene	159	15.995	15.990	0.005	0	45065	100.0	77.8	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	97	45128	100.0	84.5	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		200.0	189.3	
S 133 Xylenes, Total	106				0		200.0	202.5	
S 135 1,3-Dichloropropene, Total	1				0		200.0	200.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACROLEINPR_00006	Amount Added:	8.00	Units: uL		
VOAVAPRI_00006	Amount Added:	4.00	Units: uL		
voaWKet1 Rest_00001	Amount Added:	4.00	Units: uL		
voaWEE1stRest_00001	Amount Added:	4.00	Units: uL		
VOA8260VOAPRI_00139	Amount Added:	4.00	Units: uL		
VOA8260SURR_00040	Amount Added:	4.00	Units: uL		
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent	

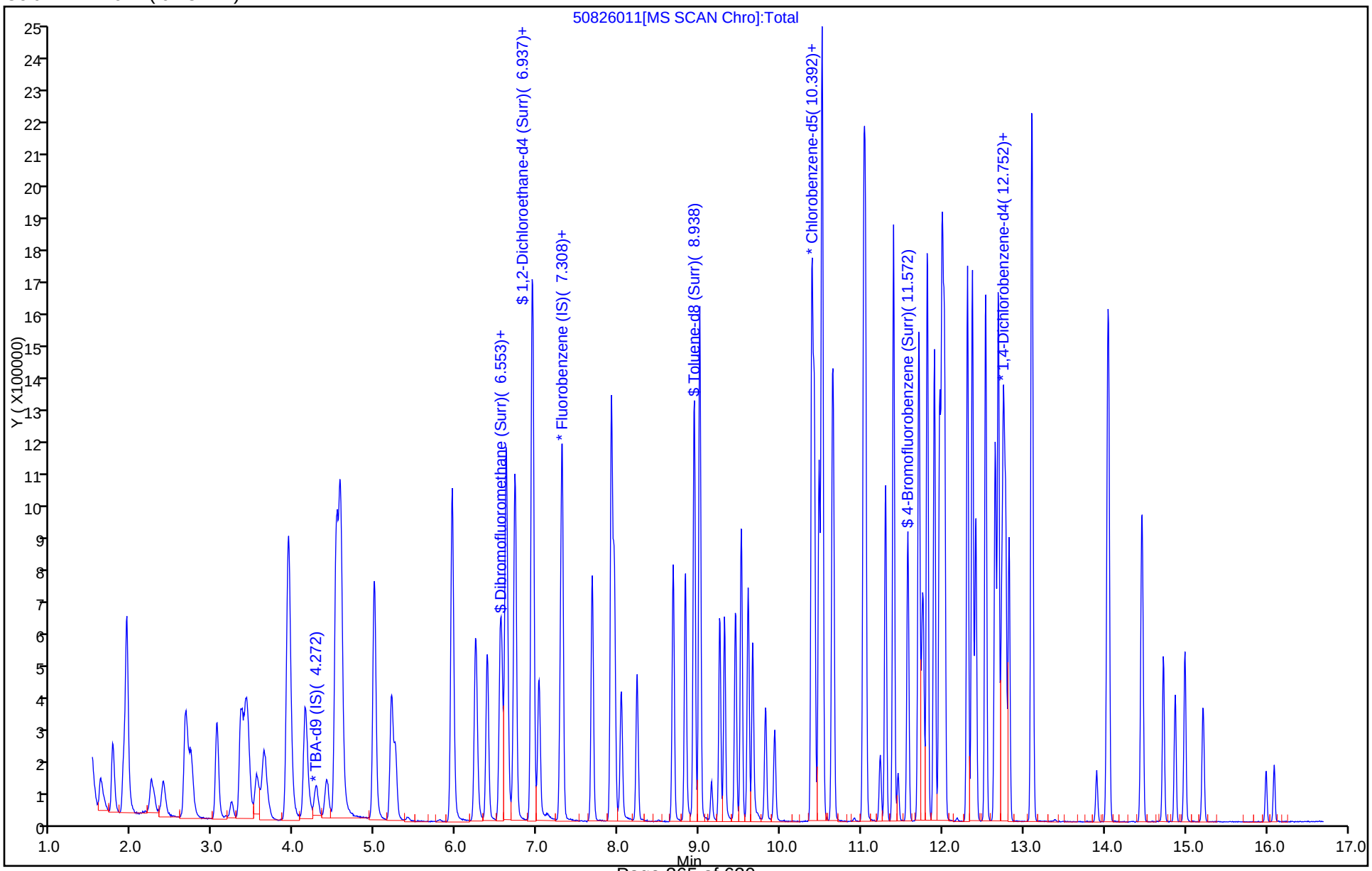
Report Date: 27-Aug-2015 11:44:06 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826011.D

Injection Date:	26-Aug-2015 16:40:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD20			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826012.D
Lims ID: IC VSTD35
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 26-Aug-2015 17:04:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD35
Misc. Info.: 180-0008300-012
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:50:05 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 11:50:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.278	4.267	0.011	0	175358	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	502256	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.387	-0.002	63	129614	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.727	12.729	-0.002	95	181323	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.559	6.560	-0.001	93	399678	175.0	162.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.931	-0.001	0	544829	175.0	160.8	
$ 7 Toluene-d8 (Surr)	98	8.937	8.939	-0.002	94	1580158	175.0	158.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	87	617045	175.0	163.6	
11 Dichlorodifluoromethane	85	1.619	1.614	0.005	99	461015	175.0	162.5	
12 Chloromethane	50	1.765	1.766	-0.001	99	669660	175.0	160.7	
13 Vinyl chloride	62	1.905	1.894	0.011	98	603655	175.0	163.3	
14 Butadiene	39	1.935	1.937	-0.002	94	700624	175.0	160.5	
15 Bromomethane	94	2.233	2.247	-0.014	90	267454	175.0	177.8	
16 Chloroethane	64	2.379	2.387	-0.008	99	358728	175.0	160.9	
17 Dichlorofluoromethane	67	2.659	2.661	-0.002	98	748877	175.0	158.3	
18 Trichlorofluoromethane	101	2.708	2.667	0.041	98	579992	175.0	163.9	
20 Ethyl ether	59	3.049	3.050	-0.001	97	521056	175.0	158.9	
21 Acrolein	56	3.231	3.232	-0.001	99	108307	225.0	221.7	
22 1,1-Dichloroethene	96	3.347	3.348	-0.001	95	473565	175.0	169.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.408	3.403	0.005	94	488054	175.0	164.7	
24 Acetone	43	3.438	3.445	-0.007	98	332039	350.0	327.6	
25 Iodomethane	142	3.547	3.543	0.004	98	696716	175.0	167.1	
26 Carbon disulfide	76	3.633	3.628	0.005	100	1177201	175.0	181.2	
28 3-Chloro-1-propene	76	3.919	3.920	-0.001	89	285911	175.0	180.5	
30 Methyl acetate	43	3.937	3.938	-0.001	99	2539904	875.0	838.7	
31 Methylene Chloride	84	4.138	4.139	-0.001	97	510471	175.0	168.4	
32 2-Methyl-2-propanol	59	4.411	4.407	0.004	90	352268	1750.0	1784.8	
33 Acrylonitrile	53	4.521	4.522	-0.001	99	2452551	1750.0	1669.2	
34 trans-1,2-Dichloroethene	96	4.570	4.565	0.005	95	510637	175.0	168.1	
35 Methyl tert-butyl ether	73	4.582	4.577	0.005	97	1204325	175.0	171.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.997	-0.008	96	889892	175.0	174.5	
37 1,1-Dichloroethane	63	5.202	5.204	-0.002	96	998105	175.0	166.8	
38 Vinyl acetate	43	5.251	5.252	-0.001	97	801339	175.0	178.5	
44 2,2-Dichloropropane	77	5.944	5.952	-0.008	79	413686	175.0	172.5	
45 cis-1,2-Dichloroethene	96	5.950	5.952	-0.002	86	550789	175.0	169.7	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	98	514894	350.0	338.2	
49 Chlorobromomethane	128	6.236	6.238	-0.002	92	234034	175.0	164.3	
51 Tetrahydrofuran	42	6.249	6.250	-0.001	91	417684	350.0	342.0	
52 Chloroform	83	6.382	6.384	-0.002	96	838419	175.0	162.2	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	97	661680	175.0	173.1	
54 Cyclohexane	56	6.614	6.615	-0.001	96	1115710	175.0	174.4	
56 Carbon tetrachloride	117	6.717	6.718	-0.001	96	566329	175.0	174.0	
55 1,1-Dichloropropene	75	6.729	6.730	-0.001	91	734207	175.0	173.7	
57 Isobutyl alcohol	41	6.924	6.925	-0.001	94	417725	4375.0	4367.4	
58 Benzene	78	6.942	6.943	-0.001	98	2000326	175.0	161.5	
59 1,2-Dichloroethane	62	7.021	7.022	-0.001	97	709743	175.0	165.7	
62 n-Heptane	43	7.307	7.308	-0.001	96	819932	175.0	177.0	
64 Trichloroethene	130	7.678	7.679	-0.001	97	506964	175.0	167.3	
66 Methylcyclohexane	83	7.915	7.917	-0.002	96	866758	175.0	181.5	
67 1,2-Dichloropropane	63	7.946	7.947	-0.001	94	547361	175.0	168.4	
70 1,4-Dioxane	88	8.025	8.026	-0.001	46	82622	3500.0	3687.8	M
68 Dibromomethane	93	8.037	8.038	-0.001	96	277699	175.0	168.4	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	98	576102	175.0	176.5	
74 cis-1,3-Dichloropropene	75	8.676	8.677	-0.001	90	714562	175.0	186.9	
75 4-Methyl-2-pentanone (MIBK	43	8.828	8.829	-0.001	98	1157588	350.0	362.5	
76 Toluene	91	9.004	9.006	-0.002	97	2050607	175.0	159.8	
77 trans-1,3-Dichloropropene	75	9.248	9.249	-0.001	98	619485	175.0	185.0	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	94	602921	175.0	186.2	
79 1,1,2-Trichloroethane	97	9.442	9.444	-0.002	93	403722	175.0	165.4	
80 Tetrachloroethene	164	9.515	9.517	-0.002	95	401915	175.0	161.4	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	743698	175.0	164.1	
82 2-Hexanone	43	9.655	9.657	-0.002	99	820858	350.0	356.1	
84 Chlorodibromomethane	129	9.813	9.815	-0.002	91	377032	175.0	178.4	
85 Ethylene Dibromide	107	9.929	9.930	-0.001	99	390862	175.0	166.2	
86 3-Chlorobenzotrifluoride	180	10.385	10.387	-0.002	92	686777	175.0	166.5	
87 Chlorobenzene	112	10.416	10.417	-0.001	91	1331912	175.0	161.2	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	642626	175.0	164.8	
89 1,1,1,2-Tetrachloroethane	131	10.507	10.508	-0.001	93	453483	175.0	168.4	
90 Ethylbenzene	106	10.513	10.514	-0.001	98	756322	175.0	172.7	
91 m-Xylene & p-Xylene	106	10.647	10.648	-0.001	0	934055	175.0	173.9	
92 o-Xylene	106	11.030	11.025	0.005	95	890574	175.0	174.5	
93 Styrene	104	11.048	11.050	-0.002	95	1460286	175.0	172.7	
94 Bromoform	173	11.231	11.232	-0.001	96	217546	175.0	180.4	
96 2-Chlorobenzotrifluoride	180	11.298	11.299	-0.001	95	670799	175.0	165.3	
97 Isopropylbenzene	105	11.395	11.396	-0.001	97	2113845	175.0	169.1	
100 Bromobenzene	156	11.712	11.707	0.005	95	543146	175.0	174.5	
99 1,1,2,2-Tetrachloroethane	83	11.705	11.707	-0.002	77	530728	175.0	161.2	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.743	-0.001	78	209384	175.0	186.1	
101 1,2,3-Trichloropropane	110	11.760	11.762	-0.002	87	177490	175.0	172.9	
103 N-Propylbenzene	120	11.815	11.810	0.005	97	636587	175.0	178.7	
104 2-Chlorotoluene	126	11.900	11.901	-0.001	95	529736	175.0	174.9	
105 3-Chlorotoluene	126	11.967	11.968	-0.001	95	552058	175.0	177.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.997	11.993	0.004	95	1760059	175.0	174.8	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	582109	175.0	174.7	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	94	1486960	175.0	181.7	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	1772230	175.0	175.7	
111 1,2-dichloro-4-(trifluorom	214	12.411	12.412	-0.001	98	484133	175.0	172.2	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	96	2029430	175.0	175.6	
113 1,3-Dichlorobenzene	146	12.648	12.650	-0.002	97	937539	175.0	169.2	
114 4-Isopropyltoluene	119	12.691	12.692	-0.001	96	1738859	175.0	177.9	
115 1,4-Dichlorobenzene	146	12.752	12.753	-0.001	93	949324	175.0	164.7	
116 2,4-Dichloro-1-(triflourom	214	12.782	12.777	0.005	95	453275	175.0	174.0	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	486163	175.0	172.6	
120 n-Butylbenzene	91	13.099	13.100	-0.001	97	1504673	175.0	179.9	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	96	849612	175.0	164.0	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	79	75555	175.0	177.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.049	-0.001	0	1576122	525.0	532.8	
125 2,3- & 3,4- Dichlorotoluen	125	14.461	14.463	-0.002	0	994231	350.0	352.5	
126 1,2,4-Trichlorobenzene	180	14.723	14.724	-0.001	94	339446	175.0	168.4	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	97	160392	175.0	165.2	
128 Naphthalene	128	14.990	14.992	-0.002	98	934428	175.0	180.4	
129 1,2,3-Trichlorobenzene	180	15.216	15.217	-0.001	94	261711	175.0	160.4	
131 2,4,5-Trichlorotoluene	159	15.988	15.990	-0.002	0	100325	175.0	170.5	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	94	99793	175.0	185.2	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		350.0	348.4	
S 134 1,2-Dichloroethene, Total	96				0		350.0	337.9	
S 135 1,3-Dichloropropene, Total	1				0		350.0	371.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00040	Amount Added:	7.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	7.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	7.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	7.00	Units: uL	
VOAVAPRI_00006	Amount Added:	7.00	Units: uL	
VOAACROLEINPR_00006	Amount Added:	9.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

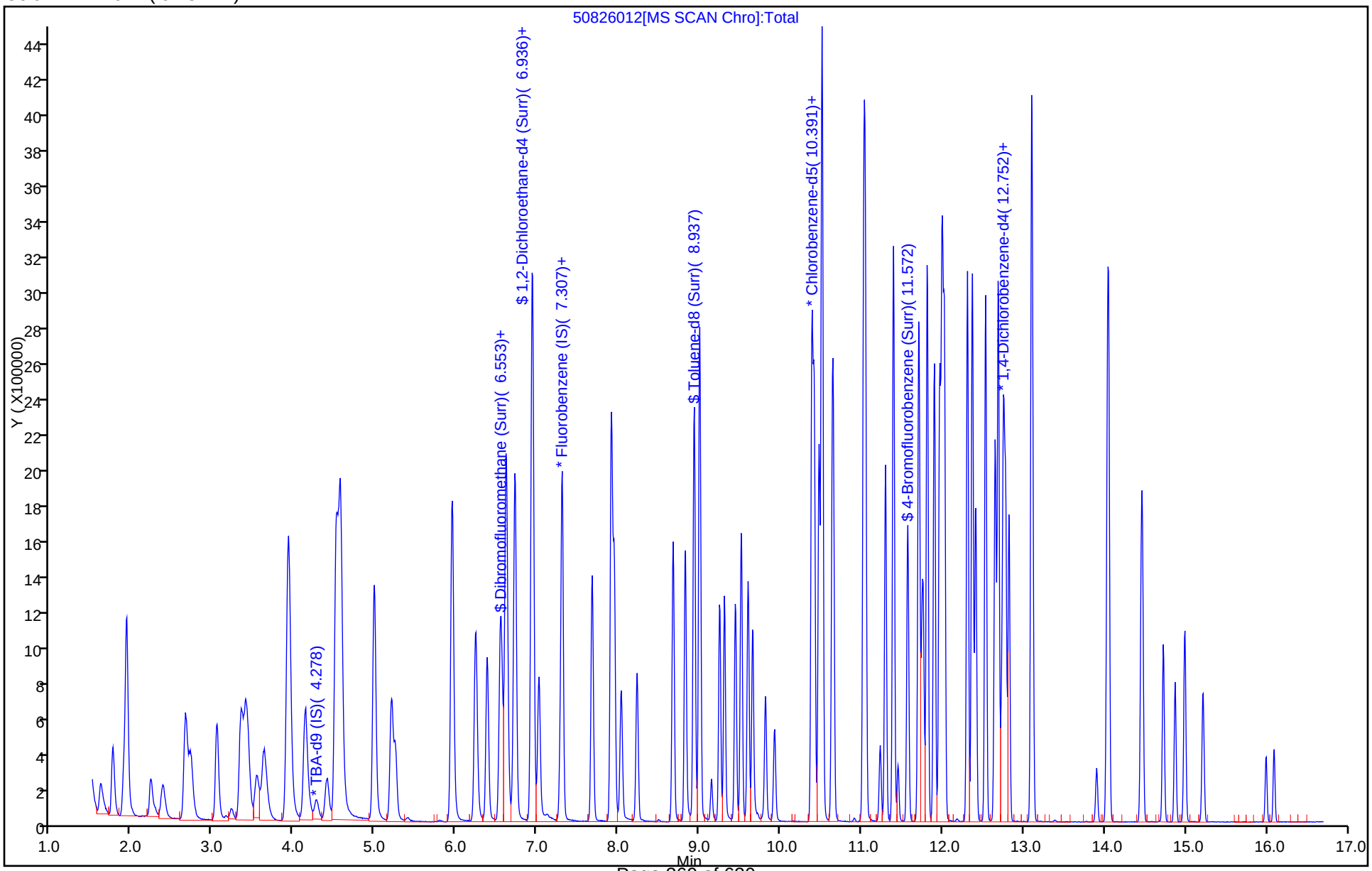
Report Date: 27-Aug-2015 11:50:07 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826012.D

Injection Date:	26-Aug-2015 17:04:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD35			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

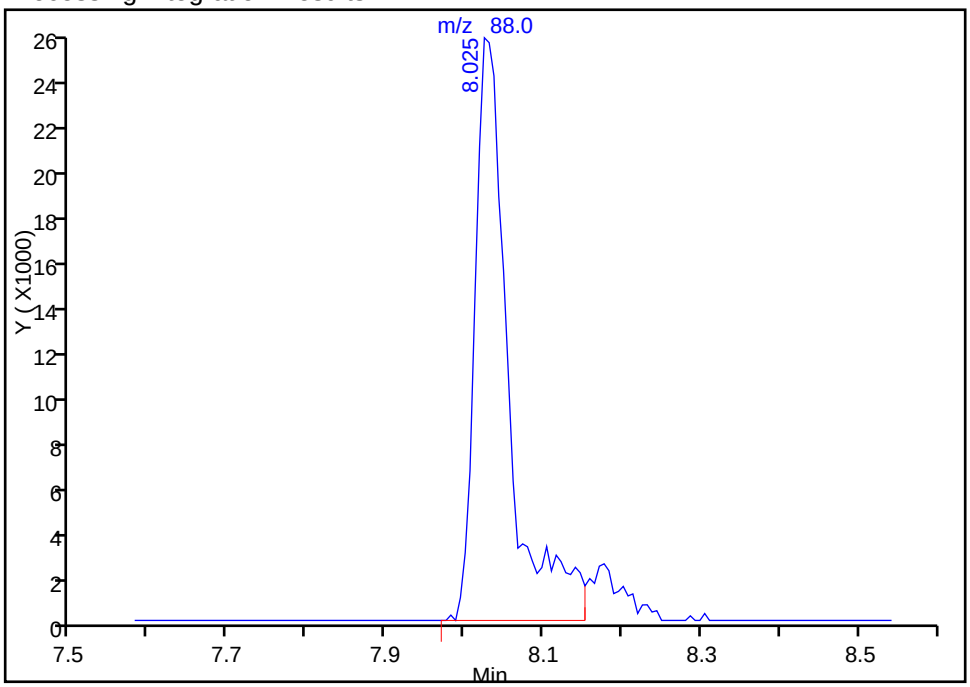
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826012.D
Injection Date: 26-Aug-2015 17:04:30 Instrument ID: CHHP5
Lims ID: IC VSTD35
Client ID:
Operator ID: 001562 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

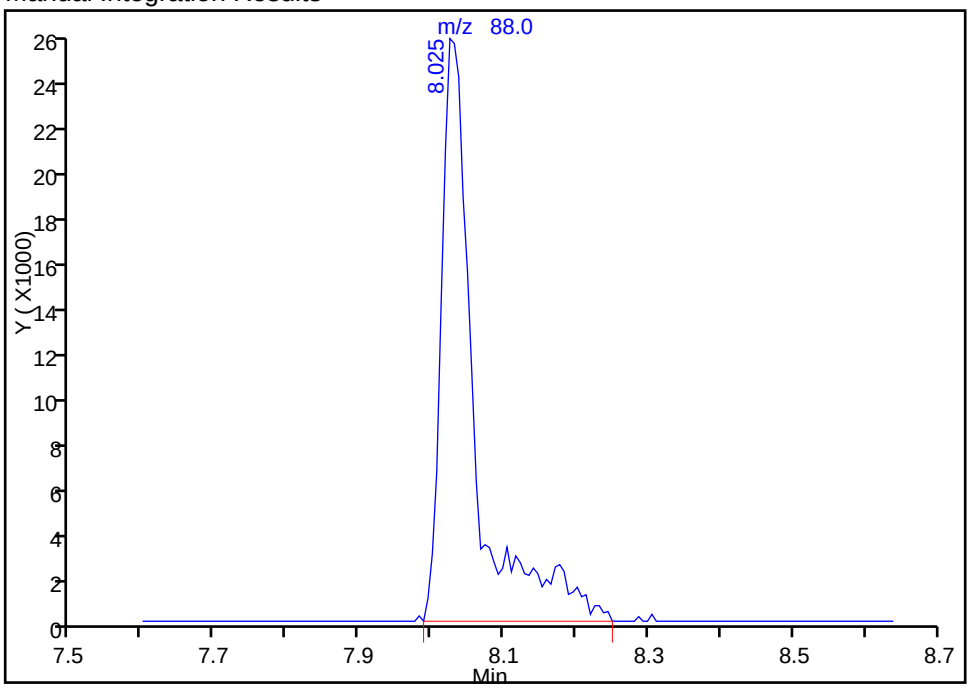
Processing Integration Results

RT: 8.02
Area: 75762
Amount: 3419.0350
Amount Units: ng



Manual Integration Results

RT: 8.02
Area: 82622
Amount: 3687.8427
Amount Units: ng



Reviewer: fergusond, 27-Aug-2015 10:34:42
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826013.D
Lims ID: IC VSTD40
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 26-Aug-2015 17:28:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD40
Misc. Info.: 180-0008300-013
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:50:23 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 10:38:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.274	4.267	0.007	0	190633	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.285	7.290	-0.005	98	491948	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.387	0.001	59	135336	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.729	0.001	94	186041	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.562	6.560	0.002	94	438908	200.0	181.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.931	0.002	0	597233	200.0	180.0	
$ 7 Toluene-d8 (Surr)	98	8.934	8.939	-0.005	94	1727014	200.0	165.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.568	11.573	-0.005	86	697446	200.0	177.1	
11 Dichlorodifluoromethane	85	1.616	1.614	0.002	98	506611	200.0	182.3	
12 Chloromethane	50	1.762	1.766	-0.004	99	733518	200.0	179.7	
13 Vinyl chloride	62	1.902	1.894	0.008	98	663498	200.0	183.3	
14 Butadiene	39	1.938	1.937	0.001	95	762590	200.0	178.4	
15 Bromomethane	94	2.230	2.247	-0.017	91	244127	200.0	165.7	
16 Chloroethane	64	2.382	2.387	-0.005	99	395735	200.0	181.2	
17 Dichlorofluoromethane	67	2.662	2.661	0.001	98	843233	200.0	182.0	
18 Trichlorofluoromethane	101	2.711	2.667	0.044	98	636269	200.0	183.6	
20 Ethyl ether	59	3.045	3.050	-0.005	97	582513	200.0	181.3	
21 Acrolein	56	3.228	3.232	-0.004	99	117496	250.0	245.5	
22 1,1-Dichloroethene	96	3.343	3.348	-0.005	94	516257	200.0	188.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.410	3.403	0.007	93	532678	200.0	183.5	
24 Acetone	43	3.435	3.445	-0.010	99	349354	400.0	351.9	
25 Iodomethane	142	3.538	3.543	-0.005	98	765249	200.0	187.4	
26 Carbon disulfide	76	3.629	3.628	0.001	100	1297173	200.0	203.9	
28 3-Chloro-1-propene	76	3.921	3.920	0.001	89	325399	200.0	209.7	
30 Methyl acetate	43	3.940	3.938	0.002	99	2811173	1000.0	947.8	
31 Methylene Chloride	84	4.134	4.139	-0.005	97	573290	200.0	194.0	
32 2-Methyl-2-propanol	59	4.408	4.407	0.001	90	410928	2000.0	1915.2	
33 Acrylonitrile	53	4.517	4.522	-0.005	98	2730347	2000.0	1897.2	
34 trans-1,2-Dichloroethene	96	4.560	4.565	-0.005	95	552053	200.0	185.6	
35 Methyl tert-butyl ether	73	4.578	4.577	0.001	97	1367672	200.0	198.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.986	4.997	-0.011	97	948868	200.0	190.0	
37 1,1-Dichloroethane	63	5.199	5.204	-0.005	97	1104940	200.0	188.5	
38 Vinyl acetate	43	5.247	5.252	-0.005	97	887283	200.0	201.8	
45 cis-1,2-Dichloroethene	96	5.947	5.952	-0.005	84	600559	200.0	188.9	
44 2,2-Dichloropropane	77	5.947	5.952	-0.005	84	451339	200.0	192.2	
46 2-Butanone (MEK)	43	5.953	5.964	-0.011	90	569128	400.0	381.6	
49 Chlorobromomethane	128	6.239	6.238	0.001	92	262832	200.0	188.3	
51 Tetrahydrofuran	42	6.245	6.250	-0.005	95	461621	400.0	385.8	
52 Chloroform	83	6.379	6.384	-0.005	95	922240	200.0	182.1	
53 1,1,1-Trichloroethane	97	6.543	6.542	0.001	96	710348	200.0	189.7	
54 Cyclohexane	56	6.610	6.615	-0.005	96	1210903	200.0	193.3	
56 Carbon tetrachloride	117	6.714	6.718	-0.004	95	616016	200.0	193.2	
55 1,1-Dichloropropene	75	6.726	6.730	-0.004	93	785333	200.0	189.7	
57 Isobutyl alcohol	41	6.927	6.925	0.002	94	492768	5000.0	5259.9	
58 Benzene	78	6.939	6.943	-0.004	98	2197241	200.0	181.1	
59 1,2-Dichloroethane	62	7.018	7.022	-0.004	96	788760	200.0	188.0	
62 n-Heptane	43	7.310	7.308	0.002	96	859948	200.0	189.6	
64 Trichloroethene	130	7.675	7.679	-0.004	96	556980	200.0	187.7	
66 Methylcyclohexane	83	7.912	7.917	-0.005	96	937977	200.0	200.6	
67 1,2-Dichloropropane	63	7.949	7.947	0.002	94	594824	200.0	186.9	
70 1,4-Dioxane	88	8.034	8.026	0.008	41	91547	4000.0	4171.8	
68 Dibromomethane	93	8.034	8.038	-0.004	97	307857	200.0	190.6	
71 Dichlorobromomethane	83	8.228	8.233	-0.005	98	644471	200.0	201.6	
74 cis-1,3-Dichloropropene	75	8.672	8.677	-0.005	91	812298	200.0	216.9	
75 4-Methyl-2-pentanone (MIBK	43	8.825	8.829	-0.004	98	1320471	400.0	396.0	
76 Toluene	91	9.001	9.006	-0.005	97	2228576	200.0	166.3	
77 trans-1,3-Dichloropropene	75	9.250	9.249	0.001	98	704918	200.0	201.6	
78 Ethyl methacrylate	69	9.311	9.310	0.001	94	687101	200.0	203.2	
79 1,1,2-Trichloroethane	97	9.445	9.444	0.001	94	441190	200.0	173.1	
80 Tetrachloroethene	164	9.518	9.517	0.001	95	438898	200.0	168.8	
81 1,3-Dichloropropane	76	9.603	9.602	0.001	98	840507	200.0	177.6	
82 2-Hexanone	43	9.658	9.657	0.001	98	943138	400.0	391.8	
84 Chlorodibromomethane	129	9.816	9.815	0.001	91	427847	200.0	193.9	
85 Ethylene Dibromide	107	9.926	9.930	-0.004	98	449617	200.0	183.1	
86 3-Chlorobenzotrifluoride	180	10.388	10.387	0.001	93	749898	200.0	174.2	
87 Chlorobenzene	112	10.412	10.417	-0.005	92	1491257	200.0	172.9	
88 4-Chlorobenzotrifluoride	180	10.473	10.478	-0.005	96	709487	200.0	174.3	
89 1,1,1,2-Tetrachloroethane	131	10.510	10.508	0.002	94	513686	200.0	182.7	
90 Ethylbenzene	106	10.516	10.514	0.002	98	837593	200.0	183.2	
91 m-Xylene & p-Xylene	106	10.650	10.648	0.002	0	1021032	200.0	182.1	
92 o-Xylene	106	11.027	11.025	0.002	97	984811	200.0	184.8	
93 Styrene	104	11.051	11.050	0.001	94	1627751	200.0	184.4	
94 Bromoform	173	11.234	11.232	0.002	96	254607	200.0	202.2	
96 2-Chlorobenzotrifluoride	180	11.294	11.299	-0.005	95	748529	200.0	176.7	
97 Isopropylbenzene	105	11.392	11.396	-0.004	97	2317406	200.0	177.6	
100 Bromobenzene	156	11.708	11.707	0.001	95	609774	200.0	190.9	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.707	0.001	78	605346	200.0	176.1	
102 trans-1,4-Dichloro-2-buten	53	11.745	11.743	0.002	43	238659	200.0	206.7	
101 1,2,3-Trichloropropane	110	11.763	11.762	0.001	86	200908	200.0	190.7	
103 N-Propylbenzene	120	11.812	11.810	0.002	97	717909	200.0	196.4	
104 2-Chlorotoluene	126	11.897	11.901	-0.004	96	608876	200.0	195.9	
105 3-Chlorotoluene	126	11.964	11.968	-0.004	95	621607	200.0	194.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.994	11.993	0.001	95	1952122	200.0	189.0	
107 4-Chlorotoluene	126	12.024	12.023	0.001	98	649501	200.0	189.9	
108 tert-Butylbenzene	119	12.310	12.309	0.001	94	1642231	200.0	195.6	
110 1,2,4-Trimethylbenzene	105	12.365	12.370	-0.005	98	1973541	200.0	190.7	
111 1,2-dichloro-4-(trifluorom	214	12.408	12.412	-0.004	97	529814	200.0	183.6	
112 sec-Butylbenzene	105	12.529	12.534	-0.005	96	2244027	200.0	189.3	
113 1,3-Dichlorobenzene	146	12.651	12.650	0.001	96	1071203	200.0	188.4	
114 4-Isopropyltoluene	119	12.688	12.692	-0.004	97	1944911	200.0	193.9	
115 1,4-Dichlorobenzene	146	12.754	12.753	0.001	94	1084086	200.0	183.3	
116 2,4-Dichloro-1-(triflourom	214	12.779	12.777	0.002	95	483618	200.0	180.9	
118 2,5-Dichlorobenzotrifluori	214	12.821	12.820	0.001	0	571654	200.0	197.9	
120 n-Butylbenzene	91	13.095	13.100	-0.005	98	1691227	200.0	197.0	
121 1,2-Dichlorobenzene	146	13.107	13.112	-0.005	94	988861	200.0	186.1	
122 1,2-Dibromo-3-Chloropropan	75	13.904	13.897	0.007	78	91242	200.0	209.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.044	14.049	-0.005	0	1875036	600.0	617.8	
125 2,3- & 3,4- Dichlorotoluen	125	14.458	14.463	-0.005	0	1204899	400.0	416.3	
126 1,2,4-Trichlorobenzene	180	14.726	14.724	0.002	94	424061	200.0	205.1	
127 Hexachlorobutadiene	225	14.872	14.870	0.002	97	188644	200.0	189.4	
128 Naphthalene	128	14.987	14.992	-0.005	98	1180622	200.0	222.2	
129 1,2,3-Trichlorobenzene	180	15.212	15.217	-0.005	95	333363	200.0	199.2	
131 2,4,5-Trichlorotoluene	159	15.991	15.990	0.001	0	135933	200.0	225.1	
130 2,3,6-Trichlorotoluene	159	16.088	16.093	-0.005	95	131306	200.0	242.0	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		400.0	374.5	
S 133 Xylenes, Total	106				0		400.0	366.9	
S 135 1,3-Dichloropropene, Total	1				0		400.0	418.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACROLEINPR_00006	Amount Added:	10.00	Units: uL	
VOAVAPRI_00006	Amount Added:	8.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	8.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	8.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	8.00	Units: uL	
VOA8260SURR_00040	Amount Added:	8.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

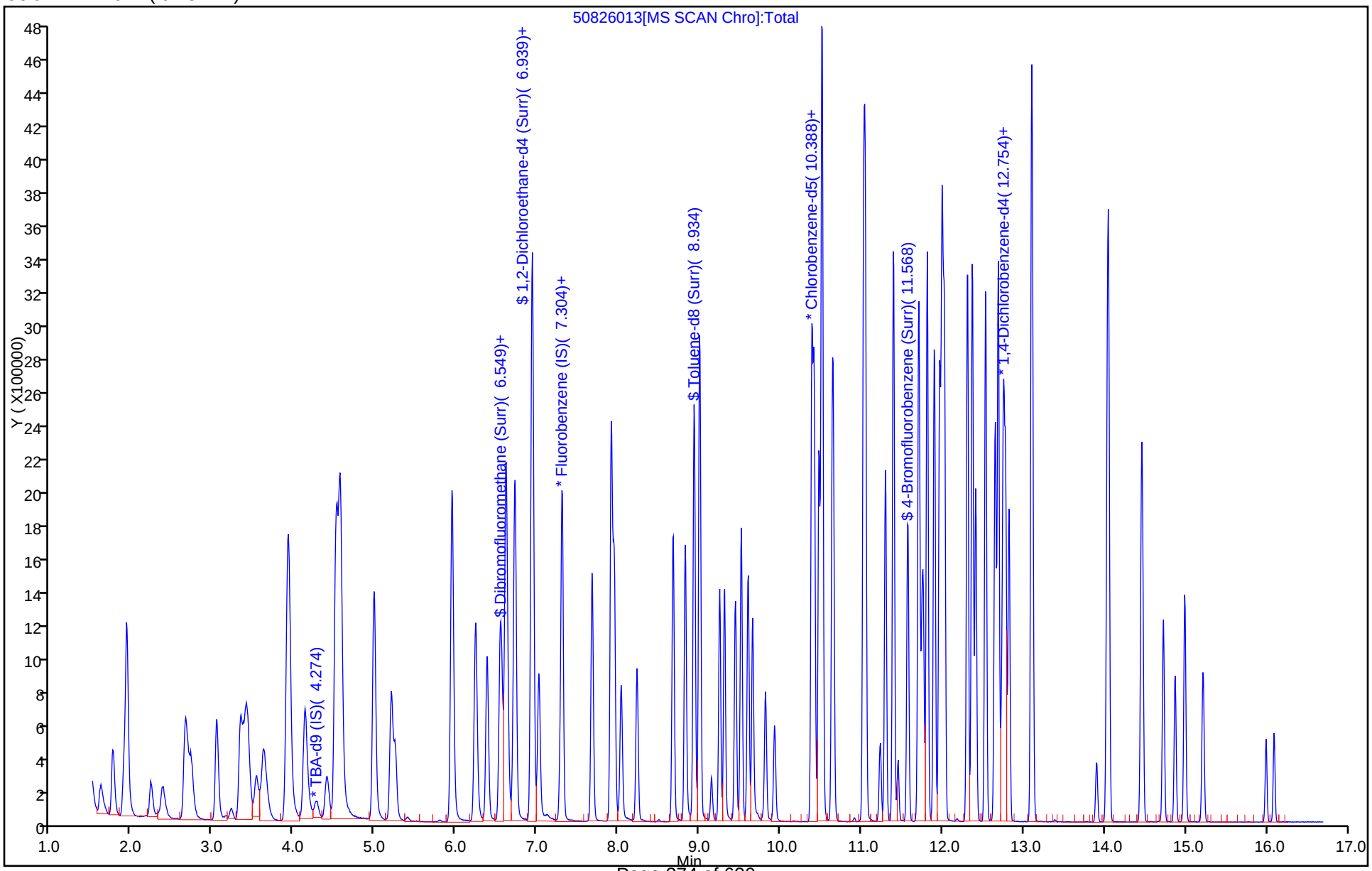
Report Date: 27-Aug-2015 11:50:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826013.D

Injection Date:	26-Aug-2015 17:28:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD40			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
Lims ID: IC VSTD50
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 26-Aug-2015 17:52:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD50
Misc. Info.: 180-0008300-014
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:50:43 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 10:43:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.271	4.267	0.004	0	178553	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	422908	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.387	-0.002	56	117789	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	92	156354	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.559	6.560	-0.001	93	562879	250.0	271.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.931	0.005	0	751925	250.0	263.6	
$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	94	2103482	250.0	231.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	86	854277	250.0	249.2	
11 Dichlorodifluoromethane	85	1.619	1.614	0.005	99	585297	250.0	245.0	
12 Chloromethane	50	1.765	1.766	-0.001	99	886889	250.0	252.8	
13 Vinyl chloride	62	1.905	1.894	0.011	99	782206	250.0	251.3	
14 Butadiene	39	1.935	1.937	-0.002	96	893578	250.0	243.1	
15 Bromomethane	94	2.234	2.247	-0.013	90	333317	250.0	263.2	
16 Chloroethane	64	2.380	2.387	-0.007	99	465079	250.0	247.7	
17 Dichlorofluoromethane	67	2.665	2.661	0.004	98	986298	250.0	247.6	
18 Trichlorofluoromethane	101	2.702	2.667	0.035	96	739174	250.0	248.1	M
20 Ethyl ether	59	3.043	3.050	-0.007	97	750491	250.0	271.8	
21 Acrolein	56	3.225	3.232	-0.007	99	127965	275.0	311.1	
22 1,1-Dichloroethene	96	3.341	3.348	-0.007	95	627614	250.0	266.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.408	3.403	0.005	93	629046	250.0	252.1	
24 Acetone	43	3.438	3.445	-0.007	99	457819	500.0	536.5	
25 Iodomethane	142	3.535	3.543	-0.008	99	963985	250.0	274.6	
26 Carbon disulfide	76	3.627	3.628	-0.001	100	1607306	250.0	293.9	
28 3-Chloro-1-propene	76	3.913	3.920	-0.007	89	399041	250.0	299.1	
30 Methyl acetate	43	3.937	3.938	-0.001	98	3450277	1250.0	1353.2	
31 Methylene Chloride	84	4.132	4.139	-0.007	98	715184	250.0	284.3	
32 2-Methyl-2-propanol	59	4.405	4.407	-0.002	91	514360	2500.0	2559.4	
33 Acrylonitrile	53	4.521	4.522	-0.001	97	3337347	2500.0	2697.5	
34 trans-1,2-Dichloroethene	96	4.563	4.565	-0.002	95	687878	250.0	269.0	
35 Methyl tert-butyl ether	73	4.576	4.577	-0.001	98	1750025	250.0	295.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.997	-0.008	97	1125958	250.0	262.3	
37 1,1-Dichloroethane	63	5.202	5.204	-0.002	96	1377944	250.0	273.5	
38 Vinyl acetate	43	5.245	5.252	-0.007	97	1072494	250.0	283.7	
45 cis-1,2-Dichloroethene	96	5.951	5.952	-0.001	85	760457	250.0	278.3	
44 2,2-Dichloropropane	77	5.944	5.952	-0.008	84	564524	250.0	279.6	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	99	698551	500.0	544.9	
49 Chlorobromomethane	128	6.236	6.238	-0.002	92	336595	250.0	280.6	
51 Tetrahydrofuran	42	6.249	6.250	-0.001	93	561739	500.0	546.2	
52 Chloroform	83	6.382	6.384	-0.002	96	1166838	250.0	268.1	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	97	898258	250.0	279.1	
54 Cyclohexane	56	6.614	6.615	-0.001	96	1451032	250.0	269.4	
56 Carbon tetrachloride	117	6.711	6.718	-0.007	95	764597	250.0	279.0	
55 1,1-Dichloropropene	75	6.729	6.730	-0.001	91	975802	250.0	274.2	
57 Isobutyl alcohol	41	6.924	6.925	-0.001	94	588608	6250.0	7308.6	
58 Benzene	78	6.942	6.943	-0.001	99	2707324	250.0	259.6	
59 1,2-Dichloroethane	62	7.021	7.022	-0.001	96	987010	250.0	273.7	
62 n-Heptane	43	7.307	7.308	-0.001	96	1040377	250.0	266.8	
64 Trichloroethene	130	7.678	7.679	-0.001	97	693909	250.0	272.0	
66 Methylcyclohexane	83	7.915	7.917	-0.002	95	1114866	250.0	277.3	
67 1,2-Dichloropropane	63	7.946	7.947	-0.001	94	765352	250.0	279.7	
70 1,4-Dioxane	88	8.031	8.026	0.005	42	111802	5000.0	5926.6	
68 Dibromomethane	93	8.037	8.038	-0.001	97	386058	250.0	278.0	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	98	812136	250.0	295.5	
74 cis-1,3-Dichloropropene	75	8.676	8.677	-0.001	91	1033255	250.0	320.9	
75 4-Methyl-2-pentanone (MIBK	43	8.828	8.829	-0.001	98	1599371	500.0	551.1	
76 Toluene	91	9.004	9.006	-0.002	96	2681762	250.0	230.0	
77 trans-1,3-Dichloropropene	75	9.248	9.249	-0.001	99	891401	250.0	292.9	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	94	862044	250.0	292.9	
79 1,1,2-Trichloroethane	97	9.442	9.444	-0.002	94	557982	250.0	251.6	
80 Tetrachloroethene	164	9.515	9.517	-0.002	94	530215	250.0	234.2	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	1030200	250.0	250.2	
82 2-Hexanone	43	9.655	9.657	-0.002	98	1123041	500.0	536.1	
84 Chlorodibromomethane	129	9.814	9.815	-0.001	91	542940	250.0	282.7	
85 Ethylene Dibromide	107	9.929	9.930	-0.001	98	553588	250.0	259.0	
86 3-Chlorobenzotrifluoride	180	10.391	10.387	0.004	92	813323	250.0	217.0	
87 Chlorobenzene	112	10.416	10.417	-0.001	91	1793475	250.0	238.9	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	781989	250.0	220.7	
89 1,1,1,2-Tetrachloroethane	131	10.507	10.508	-0.001	93	642159	250.0	262.4	
90 Ethylbenzene	106	10.519	10.514	0.005	97	1001210	250.0	251.5	
91 m-Xylene & p-Xylene	106	10.647	10.648	-0.001	0	1238884	250.0	253.8	
92 o-Xylene	106	11.030	11.025	0.005	97	1203666	250.0	259.5	
93 Styrene	104	11.048	11.050	-0.002	94	1948876	250.0	253.6	
94 Bromoform	173	11.231	11.232	-0.001	95	317730	250.0	289.9	
96 2-Chlorobenzotrifluoride	180	11.298	11.299	-0.001	94	809757	250.0	219.6	
97 Isopropylbenzene	105	11.395	11.396	-0.001	98	2727755	250.0	240.1	
100 Bromobenzene	156	11.705	11.707	-0.002	95	743219	250.0	276.9	
99 1,1,2,2-Tetrachloroethane	83	11.705	11.707	-0.002	77	725938	250.0	242.6	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.743	-0.001	77	290130	250.0	299.0	
101 1,2,3-Trichloropropane	110	11.766	11.762	0.004	87	246872	250.0	278.9	
103 N-Propylbenzene	120	11.809	11.810	-0.001	97	850210	250.0	276.7	
104 2-Chlorotoluene	126	11.900	11.901	-0.001	95	726063	250.0	278.0	
105 3-Chlorotoluene	126	11.967	11.968	-0.001	95	702342	250.0	261.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.997	11.993	0.004	95	2264532	250.0	260.9	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	778860	250.0	271.0	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	94	1938716	250.0	274.7	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	2303042	250.0	264.8	
111 1,2-dichloro-4-(trifluorom	214	12.411	12.412	-0.001	97	580120	250.0	239.2	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	96	2563359	250.0	257.3	
113 1,3-Dichlorobenzene	146	12.648	12.650	-0.002	96	1263925	250.0	264.5	
114 4-Isopropyltoluene	119	12.691	12.692	-0.001	95	2238219	250.0	265.5	
115 1,4-Dichlorobenzene	146	12.758	12.753	0.005	91	1287906	250.0	259.1	
116 2,4-Dichloro-1-(triflourom	214	12.782	12.777	0.005	96	531698	250.0	236.7	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	585601	250.0	241.2	
120 n-Butylbenzene	91	13.099	13.100	-0.001	96	1909580	250.0	264.7	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	94	1135542	250.0	254.3	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	92	105625	250.0	288.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.049	-0.001	0	1891413	750.0	741.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.461	14.463	-0.002	0	1220209	500.0	501.7	
126 1,2,4-Trichlorobenzene	180	14.723	14.724	-0.001	94	445017	250.0	256.1	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	98	196056	250.0	234.2	
128 Naphthalene	128	14.991	14.992	-0.001	98	1235965	250.0	276.7	
129 1,2,3-Trichlorobenzene	180	15.216	15.217	-0.001	94	351787	250.0	250.1	
131 2,4,5-Trichlorotoluene	159	15.994	15.990	0.004	0	136778	250.0	269.5	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	96	133555	250.0	291.3	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		500.0	513.3	
S 134 1,2-Dichloroethene, Total	96				0		500.0	547.3	
S 135 1,3-Dichloropropene, Total	1				0		500.0	613.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00040	Amount Added:	10.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	10.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	10.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	10.00	Units: uL	
VOAVAPRI_00006	Amount Added:	10.00	Units: uL	
VOAACROLEINPR_00006	Amount Added:	11.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

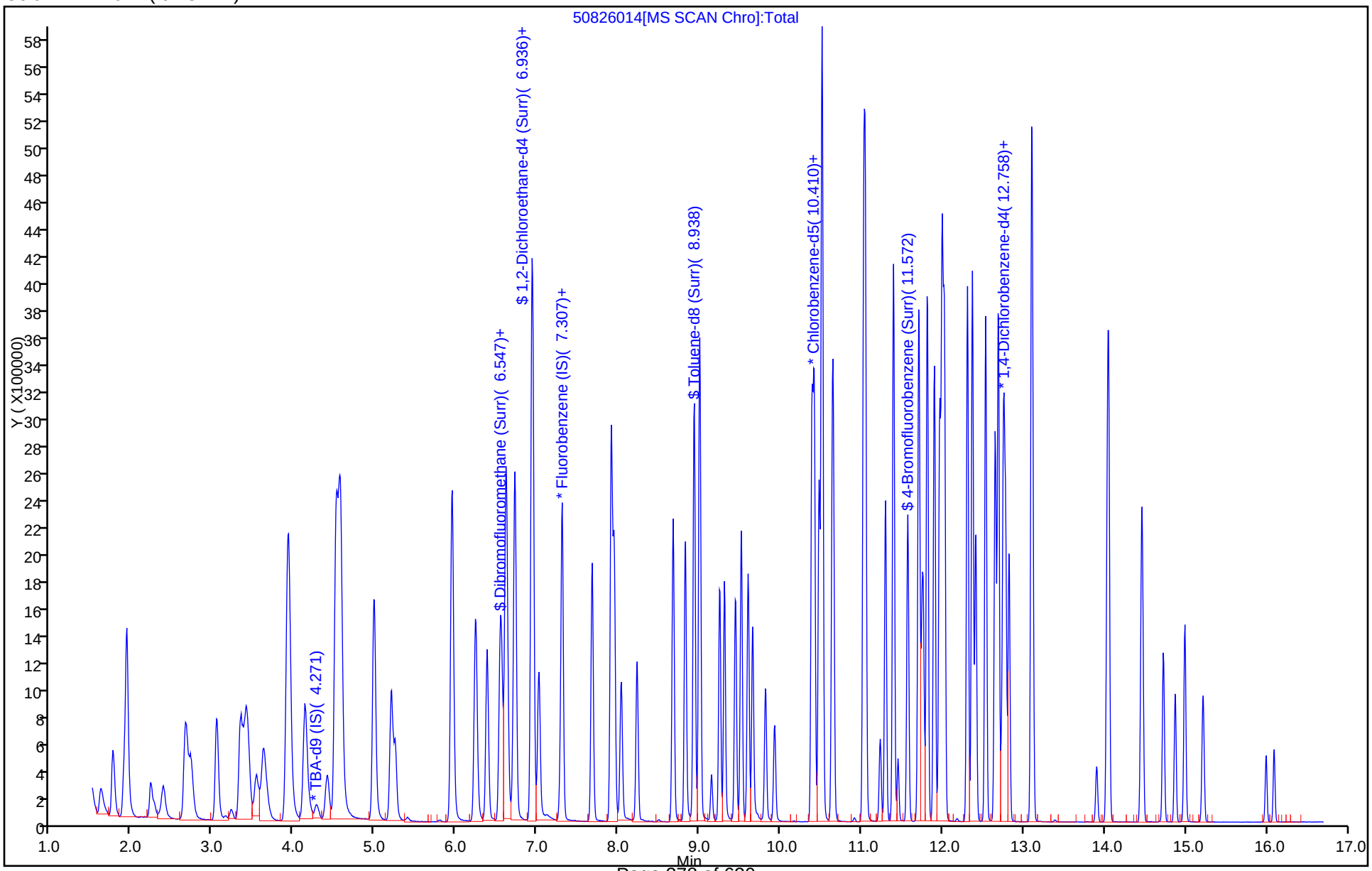
Report Date: 27-Aug-2015 11:50:46 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Injection Date:	26-Aug-2015 17:52:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD50			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

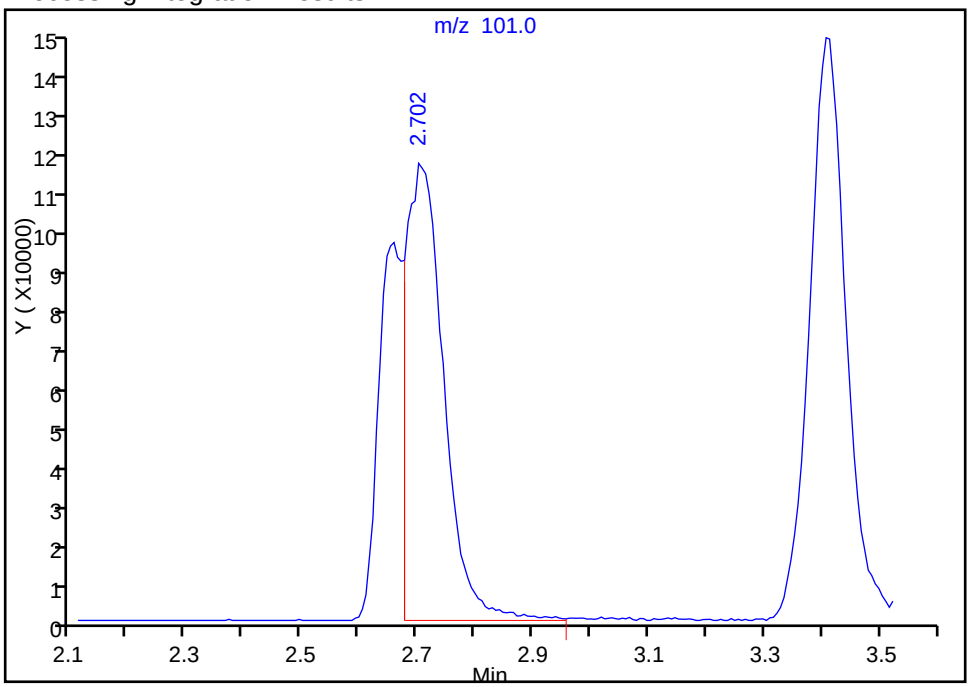
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D				
Injection Date:	26-Aug-2015 17:52:30	Instrument ID:	CHHP5		
Lims ID:	IC VSTD50				
Client ID:					
Operator ID:	001562	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

18 Trichlorofluoromethane, CAS: 75-69-4

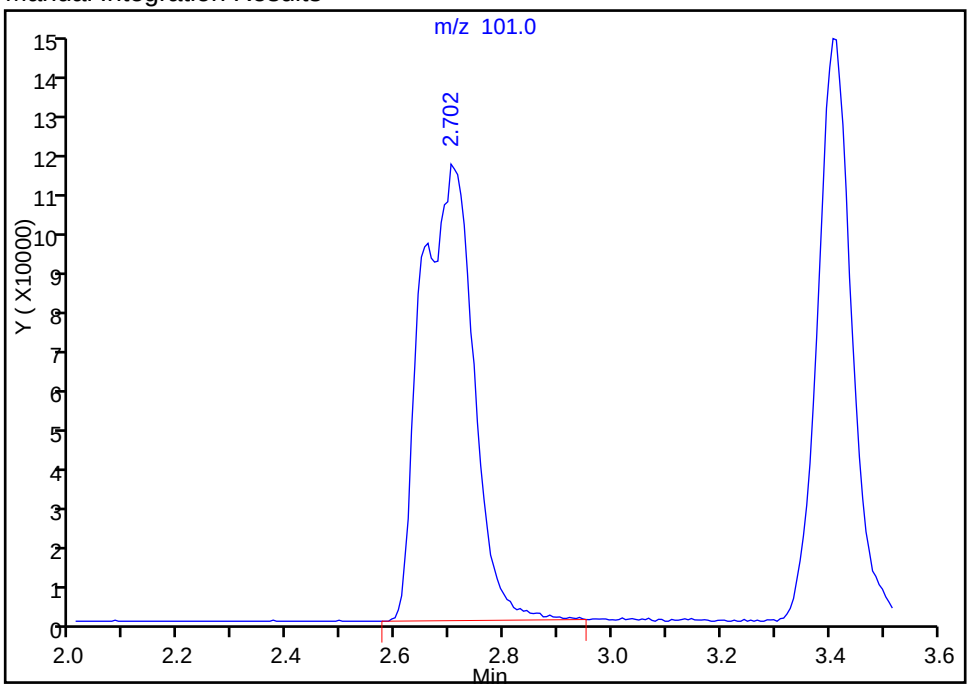
Processing Integration Results

RT: 2.70
Area: 496107
Amount: 173.5779
Amount Units: ng



Manual Integration Results

RT: 2.70
Area: 739174
Amount: 248.0735
Amount Units: ng



Reviewer: fergusond, 27-Aug-2015 10:43:05
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155577/2 Calibration Date: 10/01/2015 13:46

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51001002.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	0.2825	0.2975	0.1000	10.5	10.0	5.3	20.0
Chloromethane	Ave	0.4148	0.4329	0.1000	10.4	10.0	4.4	20.0
Vinyl chloride	Ave	0.3679	0.3474	0.1000	9.44	10.0	-5.6	20.0
1,3-Butadiene	Ave	0.4345	0.4568	0.0100	10.5	10.0	5.1	20.0
Bromomethane	Ave	0.1497	0.1348	0.0500	9.00	10.0	-10.0	20.0
Chloroethane	Ave	0.2220	0.2037	0.0500	9.18	10.0	-8.2	20.0
Dichlorofluoromethane	Ave	0.4709	0.4178	0.0100	8.87	10.0	-11.3	20.0
Trichlorofluoromethane	Ave	0.3523	0.3499	0.1000	9.93	10.0	-0.7	20.0
Ethyl ether	Ave	0.3265	0.2734	0.0100	8.37	10.0	-16.3	20.0
Acrolein	Ave	0.0486	0.0413	0.0100	25.5	30.0	-15.1	20.0
1,1-Dichloroethene	Ave	0.2785	0.2442	0.1000	8.77	10.0	-12.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2951	0.2644	0.1000	8.96	10.0	-10.4	20.0
Acetone	Ave	0.1009	0.0919	0.0500	18.2	20.0	-8.9	20.0
Iodomethane	Ave	0.4150	0.3901	0.0100	9.40	10.0	-6.0	20.0
Carbon disulfide	Ave	0.6466	0.5413	0.1000	8.37	10.0	-16.3	20.0
Allyl chloride	Ave	0.1577	0.1272	0.0100	8.07	10.0	-19.3	20.0
Methyl acetate	Ave	0.3015	0.2760	0.1000	45.8	50.0	-8.4	20.0
Methylene Chloride	Lin2		0.3182	0.1000	9.69	10.0	-3.1	20.0
tert-Butyl alcohol	Ave	1.126	1.156	0.0100	103	100	2.7	20.0
Acrylonitrile	Ave	0.1463	0.1315	0.0100	89.9	100	-10.1	20.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2568	0.1000	8.49	10.0	-15.1	20.0
Methyl tert-butyl ether	Ave	0.6999	0.5722	0.1000	8.18	10.0	-18.2	20.0
Hexane	Ave	0.5076	0.4381	0.0100	8.63	10.0	-13.7	20.0
1,1-Dichloroethane	Ave	0.5957	0.5060	0.2000	8.50	10.0	-15.0	20.0
Vinyl acetate	Ave	0.4469	0.5286	0.0100	11.8	10.0	18.3	20.0
2,2-Dichloropropane	Ave	0.2387	0.1820	0.0100	7.62	10.0	-23.8*	20.0
cis-1,2-Dichloroethene	Ave	0.3230	0.2742	0.1000	8.49	10.0	-15.1	20.0
2-Butanone (MEK)	Ave	0.1516	0.1212	0.0500	16.0	20.0	-20.0	20.0
Bromochloromethane	Ave	0.1418	0.1349	0.0100	9.51	10.0	-4.9	20.0
Tetrahydrofuran	Ave	0.1216	0.1021	0.0100	16.8	20.0	-16.0	20.0
Chloroform	Ave	0.5146	0.4354	0.2000	8.46	10.0	-15.4	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3263	0.1000	8.57	10.0	-14.3	20.0
Cyclohexane	Ave	0.6367	0.5359	0.1000	8.42	10.0	-15.8	20.0
Carbon tetrachloride	Ave	0.3240	0.2841	0.1000	8.77	10.0	-12.3	20.0
1,1-Dichloropropene	Ave	0.4208	0.3554	0.0100	8.45	10.0	-15.5	20.0
Isobutyl alcohol	Ave	0.0095	0.0094*	0.0100	247	250	-1.3	20.0
Benzene	Ave	1.233	1.099	0.5000	8.91	10.0	-10.9	20.0
1,2-Dichloroethane	Ave	0.4264	0.3541	0.1000	8.30	10.0	-17.0	20.0
n-Heptane	Ave	0.4611	0.4247	0.0100	9.21	10.0	-7.9	20.0
Trichloroethene	Ave	0.3016	0.2743	0.2000	9.09	10.0	-9.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155577/2 Calibration Date: 10/01/2015 13:46

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51001002.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	0.4753	0.4181	0.1000	8.80	10.0	-12.0	20.0
1,2-Dichloropropane	Ave	0.3235	0.2737	0.1000	8.46	10.0	-15.4	20.0
1,4-Dioxane	Ave	0.0022	0.0021*	0.0100	189	200	-5.6	20.0
Dibromomethane	Ave	0.1642	0.1390	0.0100	8.47	10.0	-15.3	20.0
Bromodichloromethane	Ave	0.3249	0.2639	0.2000	8.12	10.0	-18.8	20.0
cis-1,3-Dichloropropene	Ave	0.3807	0.2902	0.2000	7.62	10.0	-23.8*	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.232	0.9678	0.1000	15.7	20.0	-21.4*	20.0
Toluene	Ave	4.950	4.802	0.4000	9.70	10.0	-3.0	20.0
trans-1,3-Dichloropropene	Ave	1.292	1.058	0.1000	8.19	10.0	-18.1	20.0
Ethyl methacrylate	Ave	1.249	1.064	0.0100	8.52	10.0	-14.8	20.0
1,1,2-Trichloroethane	Ave	0.9416	0.8860	0.1000	9.41	10.0	-5.9	20.0
Tetrachloroethene	Ave	0.9609	0.9777	0.2000	10.2	10.0	1.8	20.0
1,3-Dichloropropane	Ave	1.748	1.560	0.0100	8.93	10.0	-10.7	20.0
2-Hexanone	Ave	0.8893	0.6325	0.1000	14.2	20.0	-28.9*	20.0
Dibromochloromethane	Ave	0.8152	0.7357	0.1000	9.03	10.0	-9.7	20.0
1,2-Dibromoethane (EDB)	Ave	0.9073	0.8526	0.1000	9.40	10.0	-6.0	20.0
3-Chlorobenzotrifluoride	Ave	1.591	1.617	0.0100	10.2	10.0	1.7	20.0
Chlorobenzene	Ave	3.187	3.091	0.5000	9.70	10.0	-3.0	20.0
4-Chlorobenzotrifluoride	Ave	1.504	1.530	0.0100	10.2	10.0	1.7	20.0
1,1,1,2-Tetrachloroethane	Ave	1.039	0.9874	0.0100	9.50	10.0	-5.0	20.0
Ethylbenzene	Ave	1.690	1.632	0.1000	9.66	10.0	-3.4	20.0
m-Xylene & p-Xylene	Ave	2.072	2.046	0.1000	9.88	10.0	-1.2	20.0
o-Xylene	Ave	1.969	1.964	0.3000	9.98	10.0	-0.2	20.0
Styrene	Ave	3.262	3.243	0.3000	9.94	10.0	-0.6	20.0
Bromoform	Ave	0.4652	0.3736	0.1000	8.03	10.0	-19.7	20.0
2-Chlorobenzotrifluoride	Ave	1.565	1.567	0.0100	10.0	10.0	0.1	20.0
Isopropylbenzene	Ave	4.822	4.823	0.1000	10.0	10.0	0.0	20.0
1,1,2,2-Tetrachloroethane	Ave	1.270	1.227	0.3000	9.66	10.0	-3.4	20.0
Bromobenzene	Ave	0.8583	0.7895	0.0100	9.20	10.0	-8.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3103	0.1593	0.0100	5.13	10.0	-48.7*	20.0
1,2,3-Trichloropropane	Ave	0.2831	0.2625	0.0100	9.27	10.0	-7.3	20.0
N-Propylbenzene	Ave	0.9825	0.8784	0.0100	8.94	10.0	-10.6	20.0
2-Chlorotoluene	Ave	0.8351	0.7942	0.0100	9.51	10.0	-4.9	20.0
3-Chlorotoluene	Ave	0.8583	0.8569	0.0100	9.98	10.0	-0.2	20.0
1,3,5-Trimethylbenzene	Ave	2.776	2.694	0.0100	9.71	10.0	-2.9	20.0
4-Chlorotoluene	Ave	0.9190	0.8755	0.0100	9.53	10.0	-4.7	20.0
tert-Butylbenzene	Ave	2.257	2.115	0.0100	9.37	10.0	-6.3	20.0
1,2,4-Trimethylbenzene	Ave	2.781	2.645	0.0100	9.51	10.0	-4.9	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7754	0.7247	0.0100	9.35	10.0	-6.5	20.0
sec-Butylbenzene	Ave	3.187	3.091	0.0100	9.70	10.0	-3.0	20.0
1,3-Dichlorobenzene	Ave	1.528	1.552	0.6000	10.2	10.0	1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155577/2 Calibration Date: 10/01/2015 13:46

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51001002.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	2.696	2.679	0.0100	9.94	10.0	-0.6	20.0
1,4-Dichlorobenzene	Ave	1.590	1.610	0.5000	10.1	10.0	1.3	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7185	0.6991	0.0100	9.73	10.0	-2.7	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7765	0.7400	0.0100	9.53	10.0	-4.7	20.0
n-Butylbenzene	Ave	2.307	2.152	0.0100	9.33	10.0	-6.7	20.0
1,2-Dichlorobenzene	Ave	1.428	1.485	0.4000	10.4	10.0	3.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1173	0.0968	0.0500	8.26	10.0	-17.4	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	0.8157	0.9009	0.0100	33.1	30.0	10.4	20.0
2,3- & 3,4- Dichlorotoluene	Ave	0.7778	0.8481	0.0100	21.8	20.0	9.0	20.0
1,2,4-Trichlorobenzene	Ave	0.5557	0.5993	0.2000	10.8	10.0	7.8	20.0
Hexachlorobutadiene	Ave	0.2677	0.2970	0.0100	11.1	10.0	11.0	20.0
Naphthalene	Ave	1.428	1.605	0.0100	11.2	10.0	12.4	20.0
1,2,3-Trichlorobenzene	Ave	0.4498	0.4927	0.0100	11.0	10.0	9.5	20.0
2,4,5-Trichlorotoluene	Ave	0.1623	0.1888	0.0100	11.6	10.0	16.3	20.0
2,3,6-Trichlorotoluene	Ave	0.1496	0.1704	0.0100	11.4	10.0	13.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2455	0.2118		8.63	10.0	-13.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3373	0.2712		8.04	10.0	-19.6	20.0
Toluene-d8 (Surr)	Ave	3.857	3.761		9.75	10.0	-2.5	20.0
4-Bromofluorobenzene (Surr)	Ave	1.455	1.402		9.64	10.0	-3.6	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Oct-2015 13:46:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008778-002
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 01-Oct-2015 17:42:30 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: fergusond Date: 01-Oct-2015 14:01:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.278	4.278	0.000	0	102757	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	357732	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.386	0.000	89	84581	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.728	0.000	95	134719	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.559	6.559	0.000	93	75775	50.0	43.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.936	0.000	0	97022	50.0	40.2	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	318126	50.0	48.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.572	0.000	90	118605	50.0	48.2	
11 Dichlorodifluoromethane	85	1.613	1.613	0.000	99	106420	50.0	52.7	
12 Chloromethane	50	1.759	1.759	0.000	99	154867	50.0	52.2	
13 Vinyl chloride	62	1.905	1.905	0.000	98	124277	50.0	47.2	
14 Butadiene	39	1.936	1.936	0.000	98	163421	50.0	52.6	
15 Bromomethane	94	2.234	2.234	0.000	92	48207	50.0	45.0	
16 Chloroethane	64	2.386	2.386	0.000	99	72855	50.0	45.9	
17 Dichlorofluoromethane	67	2.666	2.666	0.000	98	149461	50.0	44.4	
18 Trichlorofluoromethane	101	2.702	2.702	0.000	84	125185	50.0	49.7	
20 Ethyl ether	59	3.049	3.049	0.000	97	97796	50.0	41.9	
21 Acrolein	56	3.232	3.232	0.000	98	44335	150.0	127.4	
22 1,1-Dichloroethene	96	3.347	3.347	0.000	97	87341	50.0	43.8	
23 1,1,2-Trichloro-1,2,2-trif	101	3.414	3.414	0.000	90	94577	50.0	44.8	
24 Acetone	43	3.438	3.438	0.000	82	65745	100.0	91.1	
25 Iodomethane	142	3.542	3.542	0.000	97	139549	50.0	47.0	
26 Carbon disulfide	76	3.633	3.633	0.000	100	193650	50.0	41.9	
28 3-Chloro-1-propene	76	3.925	3.925	0.000	88	45519	50.0	40.3	
30 Methyl acetate	43	3.937	3.937	0.000	99	493721	250.0	228.9	
31 Methylene Chloride	84	4.138	4.138	0.000	98	113841	50.0	48.5	
32 2-Methyl-2-propanol	59	4.406	4.406	0.000	88	59384	500.0	513.5	
33 Acrylonitrile	53	4.521	4.521	0.000	97	470343	500.0	449.4	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	97	91854	50.0	42.5	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	95	204704	50.0	40.9	

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	95	156732	50.0	43.2	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	97	181024	50.0	42.5	
38 Vinyl acetate	43	5.245	5.245	0.000	97	189093	50.0	59.1	
44 2,2-Dichloropropane	77	5.945	5.945	0.000	57	65088	50.0	38.1	
45 cis-1,2-Dichloroethene	96	5.951	5.951	0.000	83	98080	50.0	42.4	
46 2-Butanone (MEK)	43	5.957	5.957	0.000	66	86713	100.0	80.0	
49 Chlorobromomethane	128	6.231	6.231	0.000	94	48247	50.0	47.5	
51 Tetrahydrofuran	42	6.249	6.249	0.000	92	73049	100.0	84.0	
52 Chloroform	83	6.383	6.383	0.000	95	155740	50.0	42.3	
53 1,1,1-Trichloroethane	97	6.541	6.541	0.000	95	116719	50.0	42.9	
54 Cyclohexane	56	6.614	6.614	0.000	97	191713	50.0	42.1	
56 Carbon tetrachloride	117	6.711	6.711	0.000	96	101623	50.0	43.8	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	90	127132	50.0	42.2	
57 Isobutyl alcohol	41	6.924	6.924	0.000	90	84063	1250.0	1234.0	
58 Benzene	78	6.942	6.942	0.000	98	393012	50.0	44.6	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	126675	50.0	41.5	
62 n-Heptane	43	7.307	7.307	0.000	97	151940	50.0	46.1	
64 Trichloroethene	130	7.679	7.679	0.000	96	98126	50.0	45.5	
66 Methylcyclohexane	83	7.916	7.916	0.000	95	149577	50.0	44.0	
67 1,2-Dichloropropane	63	7.952	7.952	0.000	93	97902	50.0	42.3	
70 1,4-Dioxane	88	8.025	8.025	0.000	38	15070	1000.0	944.4	M
68 Dibromomethane	93	8.031	8.031	0.000	94	49728	50.0	42.3	
71 Dichlorobromomethane	83	8.232	8.232	0.000	97	94398	50.0	40.6	
74 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	90	103820	50.0	38.1	
75 4-Methyl-2-pentanone (MIBK	43	8.822	8.822	0.000	99	163714	100.0	78.6	
76 Toluene	91	9.005	9.005	0.000	98	406178	50.0	48.5	
77 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	98	89501	50.0	41.0	
78 Ethyl methacrylate	69	9.309	9.309	0.000	95	90025	50.0	42.6	
79 1,1,2-Trichloroethane	97	9.449	9.449	0.000	93	74940	50.0	47.0	
80 Tetrachloroethene	164	9.516	9.516	0.000	97	82696	50.0	50.9	
81 1,3-Dichloropropane	76	9.601	9.601	0.000	99	131974	50.0	44.6	
82 2-Hexanone	43	9.656	9.656	0.000	98	106998	100.0	71.1	
84 Chlorodibromomethane	129	9.814	9.814	0.000	90	62228	50.0	45.1	
85 Ethylene Dibromide	107	9.929	9.929	0.000	97	72114	50.0	47.0	
86 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	87	136798	50.0	50.8	
87 Chlorobenzene	112	10.416	10.416	0.000	95	261424	50.0	48.5	
88 4-Chlorobenzotrifluoride	180	10.477	10.477	0.000	95	129407	50.0	50.9	
89 1,1,1,2-Tetrachloroethane	131	10.507	10.507	0.000	90	83515	50.0	47.5	
90 Ethylbenzene	106	10.513	10.513	0.000	99	138039	50.0	48.3	
91 m-Xylene & p-Xylene	106	10.647	10.647	0.000	0	173067	50.0	49.4	
92 o-Xylene	106	11.031	11.031	0.000	96	166140	50.0	49.9	
93 Styrene	104	11.049	11.049	0.000	95	274262	50.0	49.7	
94 Bromoform	173	11.231	11.231	0.000	96	31597	50.0	40.2	
96 2-Chlorobenzotrifluoride	180	11.298	11.298	0.000	94	132522	50.0	50.1	
97 Isopropylbenzene	105	11.396	11.396	0.000	96	407898	50.0	50.0	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.706	0.000	94	103762	50.0	48.3	
100 Bromobenzene	156	11.712	11.712	0.000	93	106358	50.0	46.0	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.742	0.000	80	21462	50.0	25.7	
101 1,2,3-Trichloropropane	110	11.761	11.761	0.000	86	35367	50.0	46.4	
103 N-Propylbenzene	120	11.809	11.809	0.000	99	118334	50.0	44.7	
104 2-Chlorotoluene	126	11.900	11.900	0.000	97	106995	50.0	47.5	
105 3-Chlorotoluene	126	11.961	11.961	0.000	95	115440	50.0	49.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.998	11.998	0.000	93	362965	50.0	48.5	
107 4-Chlorotoluene	126	12.022	12.022	0.000	98	117949	50.0	47.6	
108 tert-Butylbenzene	119	12.308	12.308	0.000	94	284997	50.0	46.9	
110 1,2,4-Trimethylbenzene	105	12.369	12.369	0.000	97	356320	50.0	47.5	
111 1,2-dichloro-4-(trifluorom	214	12.411	12.411	0.000	97	97635	50.0	46.7	
112 sec-Butylbenzene	105	12.533	12.533	0.000	94	416420	50.0	48.5	
113 1,3-Dichlorobenzene	146	12.649	12.649	0.000	99	209035	50.0	50.8	
114 4-Isopropyltoluene	119	12.691	12.691	0.000	97	360865	50.0	49.7	
115 1,4-Dichlorobenzene	146	12.752	12.752	0.000	96	216859	50.0	50.6	
116 2,4-Dichloro-1-(triflourom	214	12.776	12.776	0.000	95	94188	50.0	48.7	
118 2,5-Dichlorobenzotrifluori	214	12.825	12.825	0.000	0	99687	50.0	47.6	
120 n-Butylbenzene	91	13.099	13.099	0.000	98	289878	50.0	46.6	
121 1,2-Dichlorobenzene	146	13.111	13.111	0.000	97	200001	50.0	52.0	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.902	0.000	75	13042	50.0	41.3	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.042	14.042	0.000	0	364093	150.0	165.7	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.462	0.000	0	228504	100.0	109.0	
126 1,2,4-Trichlorobenzene	180	14.723	14.723	0.000	95	80738	50.0	53.9	
127 Hexachlorobutadiene	225	14.869	14.869	0.000	96	40015	50.0	55.5	
128 Naphthalene	128	14.991	14.991	0.000	97	216269	50.0	56.2	
129 1,2,3-Trichlorobenzene	180	15.216	15.216	0.000	94	66382	50.0	54.8	
131 2,4,5-Trichlorotoluene	159	15.995	15.995	0.000	0	25432	50.0	58.2	
130 2,3,6-Trichlorotoluene	159	16.086	16.086	0.000	96	22952	50.0	56.9	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	84.9	
S 133 Xylenes, Total	106				0		100.0	99.3	
S 135 1,3-Dichloropropene, Total	1				0		100.0	79.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL		
VOA8260VOAPRI_00145	Amount Added:	2.00	Units: uL		
VOAVAPRI_00007	Amount Added:	2.00	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	

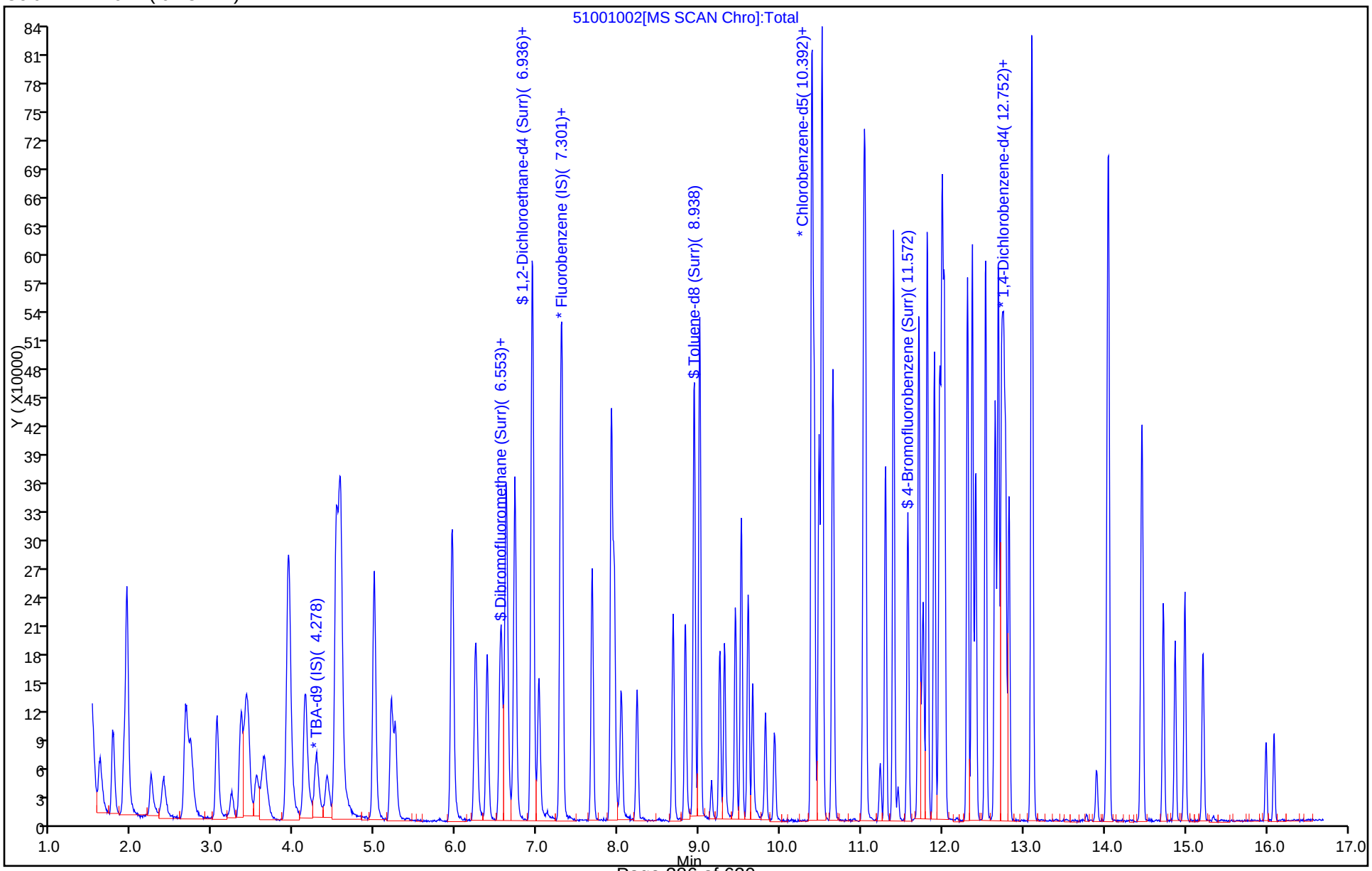
Report Date: 01-Oct-2015 17:42:32 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001002.D

Injection Date:	01-Oct-2015 13:46:30	Instrument ID:	CHHP5	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_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

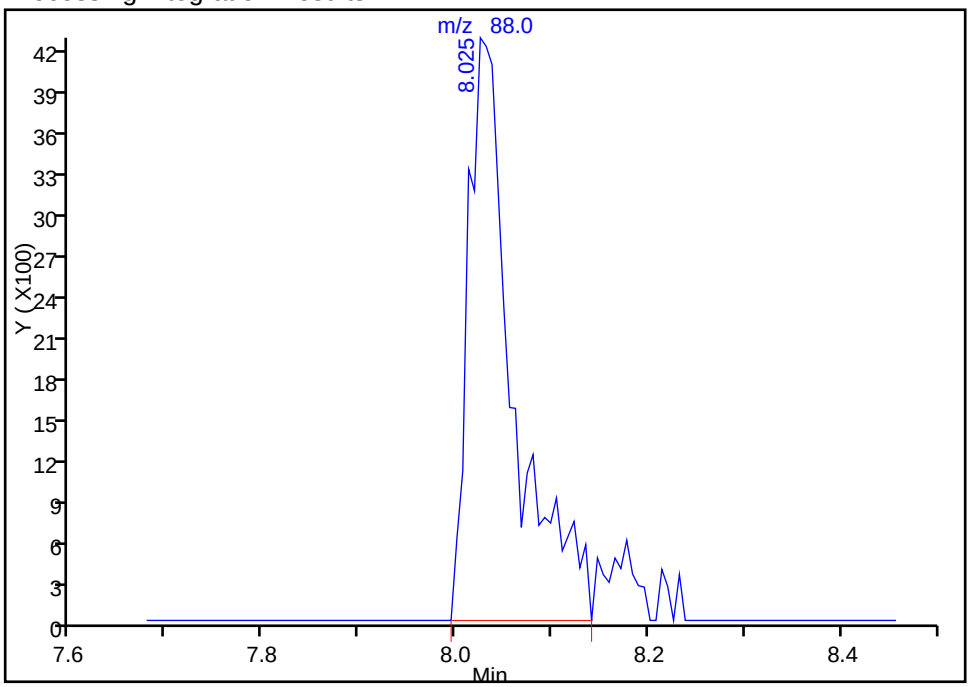
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001002.D
Injection Date: 01-Oct-2015 13:46:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

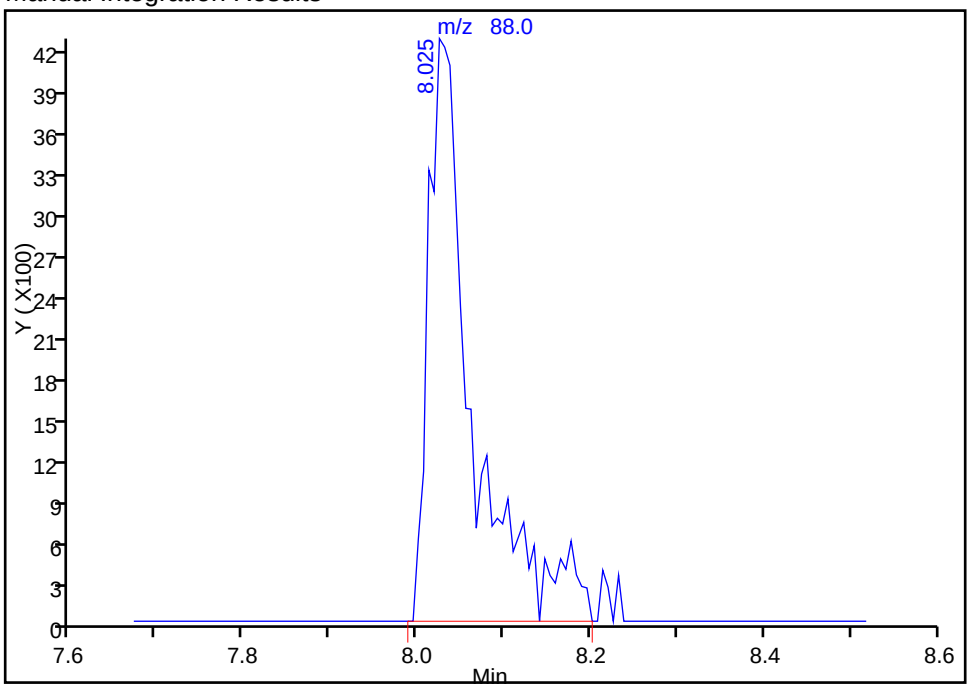
Processing Integration Results

RT: 8.03
Area: 13857
Amount: 868.3869
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 15070
Amount: 944.4028
Amount Units: ng



Reviewer: fergusond, 01-Oct-2015 14:01:56
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155711/2 Calibration Date: 10/02/2015 12:37

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51002002.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	0.2825	0.3275	0.1000	11.6	10.0	16.0	20.0
Chloromethane	Ave	0.4148	0.4602	0.1000	11.1	10.0	11.0	20.0
Vinyl chloride	Ave	0.3679	0.3763	0.1000	10.2	10.0	2.3	20.0
1,3-Butadiene	Ave	0.4345	0.4910	0.0100	11.3	10.0	13.0	20.0
Bromomethane	Ave	0.1497	0.1387	0.0500	9.27	10.0	-7.3	20.0
Chloroethane	Ave	0.2220	0.2111	0.0500	9.51	10.0	-4.9	20.0
Dichlorofluoromethane	Ave	0.4709	0.4443	0.0100	9.43	10.0	-5.7	20.0
Trichlorofluoromethane	Ave	0.3523	0.3532	0.1000	10.0	10.0	0.3	20.0
Ethyl ether	Ave	0.3265	0.2815	0.0100	8.62	10.0	-13.8	20.0
Acrolein	Ave	0.0486	0.0427	0.0100	26.3	30.0	-12.2	20.0
1,1-Dichloroethene	Ave	0.2785	0.2583	0.1000	9.27	10.0	-7.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2951	0.2854	0.1000	9.67	10.0	-3.3	20.0
Acetone	Ave	0.1009	0.0901	0.0500	17.9	20.0	-10.7	20.0
Iodomethane	Ave	0.4150	0.4102	0.0100	9.88	10.0	-1.2	20.0
Carbon disulfide	Ave	0.6466	0.5343	0.1000	8.26	10.0	-17.4	20.0
Allyl chloride	Ave	0.1577	0.1302	0.0100	8.25	10.0	-17.5	20.0
Methyl acetate	Ave	0.3015	0.2765	0.1000	45.9	50.0	-8.3	20.0
Methylene Chloride	Lin2		0.2947	0.1000	8.89	10.0	-11.1	20.0
tert-Butyl alcohol	Ave	1.126	1.160	0.0100	103	100	3.0	20.0
Acrylonitrile	Ave	0.1463	0.1310	0.0100	89.6	100	-10.4	20.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2778	0.1000	9.19	10.0	-8.1	20.0
Methyl tert-butyl ether	Ave	0.6999	0.5619	0.1000	8.03	10.0	-19.7	20.0
Hexane	Ave	0.5076	0.4854	0.0100	9.56	10.0	-4.4	20.0
1,1-Dichloroethane	Ave	0.5957	0.5172	0.2000	8.68	10.0	-13.2	20.0
Vinyl acetate	Ave	0.4469	0.5346	0.0100	12.0	10.0	19.6	20.0
2,2-Dichloropropane	Ave	0.2387	0.1770	0.0100	7.41	10.0	-25.9*	20.0
cis-1,2-Dichloroethene	Ave	0.3230	0.2824	0.1000	8.74	10.0	-12.6	20.0
2-Butanone (MEK)	Ave	0.1516	0.1292	0.0500	17.0	20.0	-14.8	20.0
Bromochloromethane	Ave	0.1418	0.1336	0.0100	9.42	10.0	-5.8	20.0
Tetrahydrofuran	Ave	0.1216	0.1055	0.0100	17.4	20.0	-13.2	20.0
Chloroform	Ave	0.5146	0.4506	0.2000	8.76	10.0	-12.4	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3303	0.1000	8.68	10.0	-13.2	20.0
Cyclohexane	Ave	0.6367	0.5800	0.1000	9.11	10.0	-8.9	20.0
Carbon tetrachloride	Ave	0.3240	0.2860	0.1000	8.83	10.0	-11.7	20.0
1,1-Dichloropropene	Ave	0.4208	0.3868	0.0100	9.19	10.0	-8.1	20.0
Isobutyl alcohol	Ave	0.0095	0.0087*	0.0100	228	250	-8.9	20.0
Benzene	Ave	1.233	1.149	0.5000	9.32	10.0	-6.8	20.0
1,2-Dichloroethane	Ave	0.4264	0.3583	0.1000	8.40	10.0	-16.0	20.0
n-Heptane	Ave	0.4611	0.4724	0.0100	10.2	10.0	2.4	20.0
Trichloroethene	Ave	0.3016	0.2888	0.2000	9.58	10.0	-4.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155711/2 Calibration Date: 10/02/2015 12:37

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51002002.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	0.4753	0.4446	0.1000	9.35	10.0	-6.5	20.0
1,2-Dichloropropane	Ave	0.3235	0.2862	0.1000	8.85	10.0	-11.5	20.0
1,4-Dioxane	Ave	0.0022	0.0025*	0.0100	223	200	11.4	20.0
Dibromomethane	Ave	0.1642	0.1374	0.0100	8.37	10.0	-16.3	20.0
Bromodichloromethane	Ave	0.3249	0.2625	0.2000	8.08	10.0	-19.2	20.0
cis-1,3-Dichloropropene	Ave	0.3807	0.2997	0.2000	7.87	10.0	-21.3*	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.232	1.051	0.1000	17.1	20.0	-14.7	20.0
Toluene	Ave	4.950	5.230	0.4000	10.6	10.0	5.7	20.0
trans-1,3-Dichloropropene	Ave	1.292	1.090	0.1000	8.44	10.0	-15.6	20.0
Ethyl methacrylate	Ave	1.249	1.111	0.0100	8.89	10.0	-11.1	20.0
1,1,2-Trichloroethane	Ave	0.9416	0.9359	0.1000	9.94	10.0	-0.6	20.0
Tetrachloroethene	Ave	0.9609	1.069	0.2000	11.1	10.0	11.2	20.0
1,3-Dichloropropane	Ave	1.748	1.640	0.0100	9.38	10.0	-6.2	20.0
2-Hexanone	Ave	0.8893	0.7280	0.1000	16.4	20.0	-18.1	20.0
Dibromochloromethane	Ave	0.8152	0.7325	0.1000	8.99	10.0	-10.1	20.0
1,2-Dibromoethane (EDB)	Ave	0.9073	0.8694	0.1000	9.58	10.0	-4.2	20.0
3-Chlorobenzotrifluoride	Ave	1.591	1.680	0.0100	10.6	10.0	5.6	20.0
Chlorobenzene	Ave	3.187	3.311	0.5000	10.4	10.0	3.9	20.0
4-Chlorobenzotrifluoride	Ave	1.504	1.562	0.0100	10.4	10.0	3.9	20.0
1,1,1,2-Tetrachloroethane	Ave	1.039	1.019	0.0100	9.80	10.0	-2.0	20.0
Ethylbenzene	Ave	1.690	1.783	0.1000	10.6	10.0	5.5	20.0
m-Xylene & p-Xylene	Ave	2.072	2.244	0.1000	10.8	10.0	8.3	20.0
o-Xylene	Ave	1.969	2.110	0.3000	10.7	10.0	7.2	20.0
Styrene	Ave	3.262	3.526	0.3000	10.8	10.0	8.1	20.0
Bromoform	Ave	0.4652	0.3680	0.1000	7.91	10.0	-20.9*	20.0
2-Chlorobenzotrifluoride	Ave	1.565	1.632	0.0100	10.4	10.0	4.3	20.0
Isopropylbenzene	Ave	4.822	5.222	0.1000	10.8	10.0	8.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.270	1.242	0.3000	9.78	10.0	-2.2	20.0
Bromobenzene	Ave	0.8583	0.8461	0.0100	9.86	10.0	-1.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3103	0.1693	0.0100	5.46	10.0	-45.4*	20.0
1,2,3-Trichloropropane	Ave	0.2831	0.2579	0.0100	9.11	10.0	-8.9	20.0
N-Propylbenzene	Ave	0.9825	0.9857	0.0100	10.0	10.0	0.3	20.0
2-Chlorotoluene	Ave	0.8351	0.8450	0.0100	10.1	10.0	1.2	20.0
3-Chlorotoluene	Ave	0.8583	0.8680	0.0100	10.1	10.0	1.1	20.0
1,3,5-Trimethylbenzene	Ave	2.776	2.900	0.0100	10.4	10.0	4.5	20.0
4-Chlorotoluene	Ave	0.9190	0.9423	0.0100	10.3	10.0	2.5	20.0
tert-Butylbenzene	Ave	2.257	2.270	0.0100	10.1	10.0	0.6	20.0
1,2,4-Trimethylbenzene	Ave	2.781	2.847	0.0100	10.2	10.0	2.4	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7754	0.7365	0.0100	9.50	10.0	-5.0	20.0
sec-Butylbenzene	Ave	3.187	3.329	0.0100	10.4	10.0	4.5	20.0
1,3-Dichlorobenzene	Ave	1.528	1.621	0.6000	10.6	10.0	6.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155711/2 Calibration Date: 10/02/2015 12:37

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51002002.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	2.696	2.824	0.0100	10.5	10.0	4.7	20.0
1,4-Dichlorobenzene	Ave	1.590	1.658	0.5000	10.4	10.0	4.3	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7185	0.6711	0.0100	9.34	10.0	-6.6	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7765	0.7921	0.0100	10.2	10.0	2.0	20.0
n-Butylbenzene	Ave	2.307	2.250	0.0100	9.75	10.0	-2.5	20.0
1,2-Dichlorobenzene	Ave	1.428	1.477	0.4000	10.3	10.0	3.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1173	0.0931	0.0500	7.94	10.0	-20.6*	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	0.8157	0.8632	0.0100	31.7	30.0	5.8	20.0
2,3- & 3,4- Dichlorotoluene	Ave	0.7778	0.8190	0.0100	21.1	20.0	5.3	20.0
1,2,4-Trichlorobenzene	Ave	0.5557	0.6038	0.2000	10.9	10.0	8.7	20.0
Hexachlorobutadiene	Ave	0.2677	0.3035	0.0100	11.3	10.0	13.4	20.0
Naphthalene	Ave	1.428	1.558	0.0100	10.9	10.0	9.1	20.0
1,2,3-Trichlorobenzene	Ave	0.4498	0.5113	0.0100	11.4	10.0	13.7	20.0
2,4,5-Trichlorotoluene	Ave	0.1623	0.1836	0.0100	11.3	10.0	13.1	20.0
2,3,6-Trichlorotoluene	Ave	0.1496	0.1774	0.0100	11.9	10.0	18.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2455	0.2061		8.39	10.0	-16.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3373	0.2609		7.74	10.0	-22.6*	20.0
Toluene-d8 (Surr)	Ave	3.857	3.829		9.93	10.0	-0.7	20.0
4-Bromofluorobenzene (Surr)	Ave	1.455	1.318		9.06	10.0	-9.4	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Oct-2015 12:37:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008799-002
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 02-Oct-2015 13:57:39 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: fergusond Date: 02-Oct-2015 12:56:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.268	4.268	0.000	0	111674	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.285	7.285	0.000	98	362708	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.388	0.000	87	84057	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.730	0.000	92	131410	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.561	6.561	0.000	93	74748	50.0	42.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.932	6.932	0.000	0	94628	50.0	38.7	
$ 7 Toluene-d8 (Surr)	98	8.934	8.934	0.000	94	321827	50.0	49.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.568	11.568	0.000	90	110778	50.0	45.3	
11 Dichlorodifluoromethane	85	1.597	1.597	0.000	99	118801	50.0	58.0	
12 Chloromethane	50	1.767	1.767	0.000	99	166932	50.0	55.5	
13 Vinyl chloride	62	1.907	1.907	0.000	83	136477	50.0	51.1	
14 Butadiene	39	1.938	1.938	0.000	97	178097	50.0	56.5	
15 Bromomethane	94	2.236	2.236	0.000	89	50317	50.0	46.3	
16 Chloroethane	64	2.388	2.388	0.000	98	76550	50.0	47.5	
17 Dichlorofluoromethane	67	2.662	2.662	0.000	97	161160	50.0	47.2	
18 Trichlorofluoromethane	101	2.704	2.704	0.000	98	128119	50.0	50.1	
20 Ethyl ether	59	3.051	3.051	0.000	96	102095	50.0	43.1	
21 Acrolein	56	3.215	3.215	0.000	98	46466	150.0	131.7	
22 1,1-Dichloroethene	96	3.349	3.349	0.000	94	93682	50.0	46.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.410	3.410	0.000	89	103505	50.0	48.4	
24 Acetone	43	3.440	3.440	0.000	99	65365	100.0	89.3	
25 Iodomethane	142	3.532	3.532	0.000	97	148780	50.0	49.4	
26 Carbon disulfide	76	3.629	3.629	0.000	100	193779	50.0	41.3	
28 3-Chloro-1-propene	76	3.921	3.921	0.000	88	47215	50.0	41.3	
30 Methyl acetate	43	3.933	3.933	0.000	100	501508	250.0	229.3	
31 Methylene Chloride	84	4.128	4.128	0.000	98	106905	50.0	44.4	
32 2-Methyl-2-propanol	59	4.401	4.401	0.000	86	64758	500.0	515.2	
33 Acrylonitrile	53	4.517	4.517	0.000	99	475128	500.0	447.8	
34 trans-1,2-Dichloroethene	96	4.560	4.560	0.000	97	100768	50.0	45.9	
35 Methyl tert-butyl ether	73	4.572	4.572	0.000	93	203809	50.0	40.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.985	4.985	0.000	94	176052	50.0	47.8	
37 1,1-Dichloroethane	63	5.198	5.198	0.000	97	187594	50.0	43.4	
38 Vinyl acetate	43	5.247	5.247	0.000	97	193914	50.0	59.8	
44 2,2-Dichloropropane	77	5.941	5.941	0.000	58	64188	50.0	37.1	
45 cis-1,2-Dichloroethene	96	5.947	5.947	0.000	83	102428	50.0	43.7	
46 2-Butanone (MEK)	43	5.953	5.953	0.000	65	93721	100.0	85.2	
49 Chlorobromomethane	128	6.233	6.233	0.000	94	48453	50.0	47.1	
51 Tetrahydrofuran	42	6.251	6.251	0.000	93	76554	100.0	86.8	
52 Chloroform	83	6.379	6.379	0.000	95	163435	50.0	43.8	
53 1,1,1-Trichloroethane	97	6.537	6.537	0.000	96	119801	50.0	43.4	
54 Cyclohexane	56	6.616	6.616	0.000	96	210380	50.0	45.6	
56 Carbon tetrachloride	117	6.713	6.713	0.000	95	103744	50.0	44.1	
55 1,1-Dichloropropene	75	6.725	6.725	0.000	92	140302	50.0	46.0	
57 Isobutyl alcohol	41	6.926	6.926	0.000	89	78614	1250.0	1138.1	
58 Benzene	78	6.938	6.938	0.000	98	416915	50.0	46.6	
59 1,2-Dichloroethane	62	7.011	7.011	0.000	96	129943	50.0	42.0	
62 n-Heptane	43	7.303	7.303	0.000	97	171335	50.0	51.2	
64 Trichloroethene	130	7.674	7.674	0.000	93	104766	50.0	47.9	
66 Methylcyclohexane	83	7.912	7.912	0.000	96	161260	50.0	46.8	
67 1,2-Dichloropropane	63	7.948	7.948	0.000	95	103815	50.0	44.2	
68 Dibromomethane	93	8.033	8.033	0.000	94	49843	50.0	41.8	
70 1,4-Dioxane	88	8.033	8.033	0.000	39	18026	1000.0	1114.2	
71 Dichlorobromomethane	83	8.228	8.228	0.000	97	95212	50.0	40.4	
74 cis-1,3-Dichloropropene	75	8.672	8.672	0.000	90	108701	50.0	39.4	
75 4-Methyl-2-pentanone (MIBK	43	8.824	8.824	0.000	99	176754	100.0	85.3	
76 Toluene	91	9.001	9.001	0.000	98	439655	50.0	52.8	
77 trans-1,3-Dichloropropene	75	9.250	9.250	0.000	99	91624	50.0	42.2	
78 Ethyl methacrylate	69	9.311	9.311	0.000	94	93359	50.0	44.5	
79 1,1,2-Trichloroethane	97	9.445	9.445	0.000	92	78667	50.0	49.7	
80 Tetrachloroethene	164	9.518	9.518	0.000	98	89844	50.0	55.6	
81 1,3-Dichloropropane	76	9.603	9.603	0.000	99	137839	50.0	46.9	
82 2-Hexanone	43	9.658	9.658	0.000	99	122378	100.0	81.9	
84 Chlorodibromomethane	129	9.810	9.810	0.000	93	61573	50.0	44.9	
85 Ethylene Dibromide	107	9.925	9.925	0.000	98	73079	50.0	47.9	
86 3-Chlorobenzotrifluoride	180	10.388	10.388	0.000	89	141190	50.0	52.8	
87 Chlorobenzene	112	10.412	10.412	0.000	95	278311	50.0	51.9	
88 4-Chlorobenzotrifluoride	180	10.473	10.473	0.000	95	131297	50.0	51.9	
89 1,1,1,2-Tetrachloroethane	131	10.509	10.509	0.000	94	85624	50.0	49.0	
90 Ethylbenzene	106	10.515	10.515	0.000	99	149869	50.0	52.8	
91 m-Xylene & p-Xylene	106	10.643	10.643	0.000	0	188620	50.0	54.2	
92 o-Xylene	106	11.026	11.026	0.000	96	177343	50.0	53.6	
93 Styrene	104	11.051	11.051	0.000	96	296395	50.0	54.1	
94 Bromoform	173	11.233	11.233	0.000	97	30931	50.0	39.6	
96 2-Chlorobenzotrifluoride	180	11.294	11.294	0.000	97	137222	50.0	52.1	
97 Isopropylbenzene	105	11.397	11.397	0.000	97	438949	50.0	54.2	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.708	0.000	79	104402	50.0	48.9	
100 Bromobenzene	156	11.708	11.708	0.000	92	111187	50.0	49.3	
102 trans-1,4-Dichloro-2-buten	53	11.744	11.744	0.000	72	22246	50.0	27.3	
101 1,2,3-Trichloropropane	110	11.762	11.762	0.000	86	33884	50.0	45.5	
103 N-Propylbenzene	120	11.811	11.811	0.000	99	129535	50.0	50.2	
104 2-Chlorotoluene	126	11.896	11.896	0.000	96	111043	50.0	50.6	
105 3-Chlorotoluene	126	11.963	11.963	0.000	94	114062	50.0	50.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.994	11.994	0.000	95	381045	50.0	52.2	
107 4-Chlorotoluene	126	12.024	12.024	0.000	97	123827	50.0	51.3	
108 tert-Butylbenzene	119	12.310	12.310	0.000	95	298272	50.0	50.3	
110 1,2,4-Trimethylbenzene	105	12.365	12.365	0.000	98	374181	50.0	51.2	
111 1,2-dichloro-4-(trifluorom	214	12.413	12.413	0.000	97	96782	50.0	47.5	
112 sec-Butylbenzene	105	12.529	12.529	0.000	94	437478	50.0	52.2	
113 1,3-Dichlorobenzene	146	12.651	12.651	0.000	99	212963	50.0	53.0	
114 4-Isopropyltoluene	119	12.687	12.687	0.000	97	371060	50.0	52.4	
115 1,4-Dichlorobenzene	146	12.754	12.754	0.000	96	217859	50.0	52.1	
116 2,4-Dichloro-1-(triflourom	214	12.778	12.778	0.000	94	88194	50.0	46.7	
118 2,5-Dichlorobenzotrifluori	214	12.821	12.821	0.000	0	104083	50.0	51.0	
120 n-Butylbenzene	91	13.095	13.095	0.000	98	295677	50.0	48.8	
121 1,2-Dichlorobenzene	146	13.107	13.107	0.000	98	194075	50.0	51.7	
122 1,2-Dibromo-3-Chloropropan	75	13.898	13.898	0.000	78	12232	50.0	39.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.044	14.044	0.000	0	340299	150.0	158.7	
125 2,3- & 3,4- Dichlorotoluen	125	14.464	14.464	0.000	0	215246	100.0	105.3	
126 1,2,4-Trichlorobenzene	180	14.725	14.725	0.000	94	79346	50.0	54.3	
127 Hexachlorobutadiene	225	14.871	14.871	0.000	97	39882	50.0	56.7	
128 Naphthalene	128	14.993	14.993	0.000	97	204776	50.0	54.6	
129 1,2,3-Trichlorobenzene	180	15.212	15.212	0.000	96	67191	50.0	56.8	
131 2,4,5-Trichlorotoluene	159	15.990	15.990	0.000	0	24124	50.0	56.6	
130 2,3,6-Trichlorotoluene	159	16.088	16.088	0.000	97	23318	50.0	59.3	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	107.7	
S 134 1,2-Dichloroethene, Total	96				0		100.0	89.7	
S 135 1,3-Dichloropropene, Total	1				0		100.0	81.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL	
VOA8260VOAPRI_00147	Amount Added:	2.00	Units: uL	
VOAVAPRI_00007	Amount Added:	2.00	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

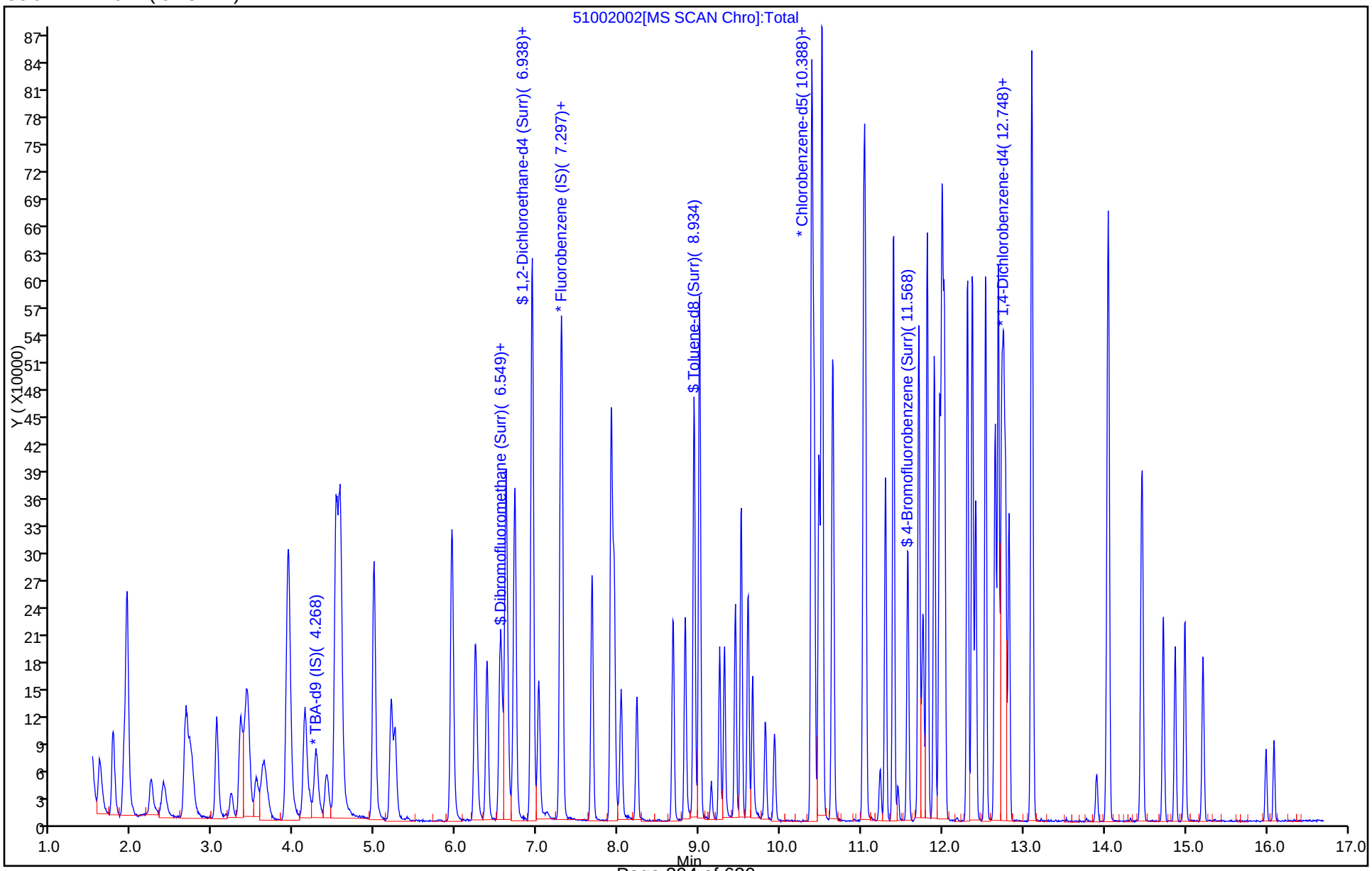
Report Date: 02-Oct-2015 13:57:40 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002002.D

Injection Date:	02-Oct-2015 12:37:30	Instrument ID:	CHHP5	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_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155884/2 Calibration Date: 10/05/2015 10:56

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51005002.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	0.2825	0.2953	0.1000	10.5	10.0	4.5	20.0
Chloromethane	Ave	0.4148	0.4057	0.1000	9.78	10.0	-2.2	20.0
Vinyl chloride	Ave	0.3679	0.3401	0.1000	9.24	10.0	-7.6	20.0
1,3-Butadiene	Ave	0.4345	0.4422	0.0100	10.2	10.0	1.8	20.0
Bromomethane	Ave	0.1497	0.1481	0.0500	9.89	10.0	-1.1	20.0
Chloroethane	Ave	0.2220	0.1749	0.0500	7.88	10.0	-21.2*	20.0
Dichlorofluoromethane	Ave	0.4709	0.3982	0.0100	8.45	10.0	-15.5	20.0
Trichlorofluoromethane	Ave	0.3523	0.3423	0.1000	9.72	10.0	-2.8	20.0
Ethyl ether	Ave	0.3265	0.2724	0.0100	8.34	10.0	-16.6	20.0
Acrolein	Ave	0.0486	0.0393	0.0100	24.2	30.0	-19.2	20.0
1,1-Dichloroethene	Ave	0.2785	0.2607	0.1000	9.36	10.0	-6.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2951	0.2813	0.1000	9.53	10.0	-4.7	20.0
Acetone	Ave	0.1009	0.0974	0.0500	19.3	20.0	-3.5	20.0
Iodomethane	Ave	0.4150	0.3940	0.0100	9.49	10.0	-5.1	20.0
Carbon disulfide	Ave	0.6466	0.6056	0.1000	9.36	10.0	-6.4	20.0
Allyl chloride	Ave	0.1577	0.1335	0.0100	8.46	10.0	-15.4	20.0
Methyl acetate	Ave	0.3015	0.2915	0.1000	48.4	50.0	-3.3	20.0
Methylene Chloride	Lin2		0.2939	0.1000	8.86	10.0	-11.4	20.0
tert-Butyl alcohol	Ave	1.126	1.180	0.0100	105	100	4.9	20.0
Acrylonitrile	Ave	0.1463	0.1372	0.0100	93.8	100	-6.2	20.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2740	0.1000	9.06	10.0	-9.4	20.0
Methyl tert-butyl ether	Ave	0.6999	0.5847	0.1000	8.35	10.0	-16.5	20.0
Hexane	Ave	0.5076	0.4487	0.0100	8.84	10.0	-11.6	20.0
1,1-Dichloroethane	Ave	0.5957	0.5087	0.2000	8.54	10.0	-14.6	20.0
Vinyl acetate	Ave	0.4469	0.4517	0.0100	10.1	10.0	1.1	20.0
2,2-Dichloropropane	Ave	0.2387	0.1941	0.0100	8.13	10.0	-18.7	20.0
cis-1,2-Dichloroethene	Ave	0.3230	0.2850	0.1000	8.82	10.0	-11.8	20.0
2-Butanone (MEK)	Ave	0.1516	0.1393	0.0500	18.4	20.0	-8.1	20.0
Bromochloromethane	Ave	0.1418	0.1353	0.0100	9.54	10.0	-4.6	20.0
Tetrahydrofuran	Ave	0.1216	0.1036	0.0100	17.0	20.0	-14.8	20.0
Chloroform	Ave	0.5146	0.4380	0.2000	8.51	10.0	-14.9	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3347	0.1000	8.80	10.0	-12.0	20.0
Cyclohexane	Ave	0.6367	0.5517	0.1000	8.66	10.0	-13.4	20.0
Carbon tetrachloride	Ave	0.3240	0.3088	0.1000	9.53	10.0	-4.7	20.0
1,1-Dichloropropene	Ave	0.4208	0.3611	0.0100	8.58	10.0	-14.2	20.0
Isobutyl alcohol	Ave	0.0095	0.0093*	0.0100	244	250	-2.3	20.0
Benzene	Ave	1.233	1.121	0.5000	9.09	10.0	-9.1	20.0
1,2-Dichloroethane	Ave	0.4264	0.3541	0.1000	8.30	10.0	-17.0	20.0
n-Heptane	Ave	0.4611	0.4393	0.0100	9.53	10.0	-4.7	20.0
Trichloroethene	Ave	0.3016	0.2864	0.2000	9.50	10.0	-5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155884/2 Calibration Date: 10/05/2015 10:56

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51005002.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	0.4753	0.4224	0.1000	8.89	10.0	-11.1	20.0
1,2-Dichloropropane	Ave	0.3235	0.2920	0.1000	9.03	10.0	-9.7	20.0
1,4-Dioxane	Ave	0.0022	0.0025*	0.0100	223	200	11.6	20.0
Dibromomethane	Ave	0.1642	0.1413	0.0100	8.61	10.0	-13.9	20.0
Bromodichloromethane	Ave	0.3249	0.2855	0.2000	8.79	10.0	-12.1	20.0
cis-1,3-Dichloropropene	Ave	0.3807	0.3101	0.2000	8.15	10.0	-18.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.232	1.097	0.1000	17.8	20.0	-11.0	20.0
Toluene	Ave	4.950	4.943	0.4000	9.99	10.0	-0.1	20.0
trans-1,3-Dichloropropene	Ave	1.292	1.180	0.1000	9.13	10.0	-8.7	20.0
Ethyl methacrylate	Ave	1.249	1.125	0.0100	9.01	10.0	-9.9	20.0
1,1,2-Trichloroethane	Ave	0.9416	0.9255	0.1000	9.83	10.0	-1.7	20.0
Tetrachloroethene	Ave	0.9609	1.020	0.2000	10.6	10.0	6.1	20.0
1,3-Dichloropropane	Ave	1.748	1.626	0.0100	9.30	10.0	-7.0	20.0
2-Hexanone	Ave	0.8893	0.8315	0.1000	18.7	20.0	-6.5	20.0
Dibromochloromethane	Ave	0.8152	0.8893	0.1000	10.9	10.0	9.1	20.0
1,2-Dibromoethane (EDB)	Ave	0.9073	0.8939	0.1000	9.85	10.0	-1.5	20.0
3-Chlorobenzotrifluoride	Ave	1.591	1.609	0.0100	10.1	10.0	1.2	20.0
Chlorobenzene	Ave	3.187	3.128	0.5000	9.81	10.0	-1.9	20.0
4-Chlorobenzotrifluoride	Ave	1.504	1.570	0.0100	10.4	10.0	4.4	20.0
1,1,1,2-Tetrachloroethane	Ave	1.039	1.039	0.0100	10.0	10.0	0.0	20.0
Ethylbenzene	Ave	1.690	1.689	0.1000	10.0	10.0	-0.0	20.0
m-Xylene & p-Xylene	Ave	2.072	2.084	0.1000	10.1	10.0	0.6	20.0
o-Xylene	Ave	1.969	1.926	0.3000	9.78	10.0	-2.2	20.0
Styrene	Ave	3.262	3.367	0.3000	10.3	10.0	3.2	20.0
Bromoform	Ave	0.4652	0.4754	0.1000	10.2	10.0	2.2	20.0
2-Chlorobenzotrifluoride	Ave	1.565	1.645	0.0100	10.5	10.0	5.1	20.0
Isopropylbenzene	Ave	4.822	4.842	0.1000	10.0	10.0	0.4	20.0
1,1,2,2-Tetrachloroethane	Ave	1.270	1.213	0.3000	9.55	10.0	-4.5	20.0
Bromobenzene	Ave	0.8583	0.8418	0.0100	9.81	10.0	-1.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3103	0.1871	0.0100	6.03	10.0	-39.7*	20.0
1,2,3-Trichloropropane	Ave	0.2831	0.2651	0.0100	9.36	10.0	-6.4	20.0
N-Propylbenzene	Ave	0.9825	0.9278	0.0100	9.44	10.0	-5.6	20.0
2-Chlorotoluene	Ave	0.8351	0.8198	0.0100	9.82	10.0	-1.8	20.0
3-Chlorotoluene	Ave	0.8583	0.8361	0.0100	9.74	10.0	-2.6	20.0
1,3,5-Trimethylbenzene	Ave	2.776	2.720	0.0100	9.80	10.0	-2.0	20.0
4-Chlorotoluene	Ave	0.9190	0.8995	0.0100	9.79	10.0	-2.1	20.0
tert-Butylbenzene	Ave	2.257	2.175	0.0100	9.64	10.0	-3.6	20.0
1,2,4-Trimethylbenzene	Ave	2.781	2.754	0.0100	9.90	10.0	-1.0	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7754	0.7579	0.0100	9.77	10.0	-2.3	20.0
sec-Butylbenzene	Ave	3.187	3.162	0.0100	9.92	10.0	-0.8	20.0
1,3-Dichlorobenzene	Ave	1.528	1.602	0.6000	10.5	10.0	4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155884/2 Calibration Date: 10/05/2015 10:56

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51005002.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	2.696	2.708	0.0100	10.0	10.0	0.5	20.0
1,4-Dichlorobenzene	Ave	1.590	1.637	0.5000	10.3	10.0	3.0	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7185	0.7165	0.0100	9.97	10.0	-0.3	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7765	0.7699	0.0100	9.92	10.0	-0.8	20.0
n-Butylbenzene	Ave	2.307	2.191	0.0100	9.50	10.0	-5.0	20.0
1,2-Dichlorobenzene	Ave	1.428	1.504	0.4000	10.5	10.0	5.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1173	0.1186	0.0500	10.1	10.0	1.1	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	0.8157	0.8789	0.0100	32.3	30.0	7.7	20.0
2,3- & 3,4- Dichlorotoluene	Ave	0.7778	0.8424	0.0100	21.7	20.0	8.3	20.0
1,2,4-Trichlorobenzene	Ave	0.5557	0.6224	0.2000	11.2	10.0	12.0	20.0
Hexachlorobutadiene	Ave	0.2677	0.2987	0.0100	11.2	10.0	11.6	20.0
Naphthalene	Ave	1.428	1.550	0.0100	10.9	10.0	8.5	20.0
1,2,3-Trichlorobenzene	Ave	0.4498	0.5206	0.0100	11.6	10.0	15.7	20.0
2,4,5-Trichlorotoluene	Ave	0.1623	0.1597	0.0100	9.84	10.0	-1.6	20.0
2,3,6-Trichlorotoluene	Ave	0.1496	0.1606	0.0100	10.7	10.0	7.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2455	0.2193		8.93	10.0	-10.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3373	0.2797		8.29	10.0	-17.1	20.0
Toluene-d8 (Surr)	Ave	3.857	3.757		9.74	10.0	-2.6	20.0
4-Bromofluorobenzene (Surr)	Ave	1.455	1.225		8.42	10.0	-15.8	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Oct-2015 10:56:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008828-002
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 05-Oct-2015 12:09:15 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: fergusond Date: 05-Oct-2015 11:11:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.281	4.281	0.000	0	125348	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.292	0.000	98	389208	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.388	0.000	87	92325	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.730	0.000	94	138714	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.568	6.568	0.000	94	85361	50.0	44.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.933	0.000	0	108875	50.0	41.5	
$ 7 Toluene-d8 (Surr)	98	8.940	8.940	0.000	94	346854	50.0	48.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.575	11.575	0.000	92	113113	50.0	42.1	
11 Dichlorodifluoromethane	85	1.604	1.604	0.000	99	114928	50.0	52.3	
12 Chloromethane	50	1.774	1.774	0.000	99	157900	50.0	48.9	
13 Vinyl chloride	62	1.908	1.908	0.000	98	132359	50.0	46.2	
14 Butadiene	39	1.951	1.951	0.000	99	172094	50.0	50.9	
15 Bromomethane	94	2.249	2.249	0.000	91	57638	50.0	49.5	
16 Chloroethane	64	2.413	2.413	0.000	98	68055	50.0	39.4	
17 Dichlorofluoromethane	67	2.675	2.675	0.000	98	154963	50.0	42.3	
18 Trichlorofluoromethane	101	2.699	2.699	0.000	95	133231	50.0	48.6	
20 Ethyl ether	59	3.046	3.046	0.000	96	106015	50.0	41.7	
21 Acrolein	56	3.222	3.222	0.000	99	45877	150.0	121.2	
22 1,1-Dichloroethene	96	3.344	3.344	0.000	95	101461	50.0	46.8	
23 1,1,2-Trichloro-1,2,2-trif	101	3.423	3.423	0.000	92	109482	50.0	47.7	
24 Acetone	43	3.441	3.441	0.000	99	75779	100.0	96.5	
25 Iodomethane	142	3.538	3.538	0.000	99	153346	50.0	47.5	
26 Carbon disulfide	76	3.636	3.636	0.000	100	235692	50.0	46.8	
28 3-Chloro-1-propene	76	3.922	3.922	0.000	89	51964	50.0	42.3	
30 Methyl acetate	43	3.940	3.940	0.000	99	567330	250.0	241.8	
31 Methylene Chloride	84	4.141	4.141	0.000	98	114392	50.0	44.3	
32 2-Methyl-2-propanol	59	4.402	4.402	0.000	87	73968	500.0	524.3	
33 Acrylonitrile	53	4.524	4.524	0.000	97	533822	500.0	468.8	
34 trans-1,2-Dichloroethene	96	4.566	4.566	0.000	96	106640	50.0	45.3	
35 Methyl tert-butyl ether	73	4.579	4.579	0.000	94	227553	50.0	41.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.992	4.992	0.000	95	174620	50.0	44.2	
37 1,1-Dichloroethane	63	5.199	5.199	0.000	97	197976	50.0	42.7	
38 Vinyl acetate	43	5.254	5.254	0.000	98	175817	50.0	50.5	
44 2,2-Dichloropropane	77	5.947	5.947	0.000	82	75559	50.0	40.7	
45 cis-1,2-Dichloroethene	96	5.954	5.954	0.000	84	110941	50.0	44.1	
46 2-Butanone (MEK)	43	5.966	5.966	0.000	90	108402	100.0	91.9	
49 Chlorobromomethane	128	6.233	6.233	0.000	95	52647	50.0	47.7	
51 Tetrahydrofuran	42	6.252	6.252	0.000	93	80651	100.0	85.2	
52 Chloroform	83	6.379	6.379	0.000	96	170473	50.0	42.6	
53 1,1,1-Trichloroethane	97	6.550	6.550	0.000	96	130271	50.0	44.0	
54 Cyclohexane	56	6.617	6.617	0.000	95	214719	50.0	43.3	
56 Carbon tetrachloride	117	6.720	6.720	0.000	96	120167	50.0	47.6	
55 1,1-Dichloropropene	75	6.732	6.732	0.000	91	140552	50.0	42.9	
57 Isobutyl alcohol	41	6.927	6.927	0.000	90	90495	1250.0	1221.0	
58 Benzene	78	6.945	6.945	0.000	98	436137	50.0	45.4	
59 1,2-Dichloroethane	62	7.024	7.024	0.000	95	137816	50.0	41.5	
62 n-Heptane	43	7.310	7.310	0.000	96	170962	50.0	47.6	
64 Trichloroethene	130	7.675	7.675	0.000	96	111479	50.0	47.5	
66 Methylcyclohexane	83	7.912	7.912	0.000	94	164418	50.0	44.4	
67 1,2-Dichloropropane	63	7.949	7.949	0.000	96	113656	50.0	45.1	
68 Dibromomethane	93	8.034	8.034	0.000	95	55002	50.0	43.0	
70 1,4-Dioxane	88	8.034	8.034	0.000	40	19375	1000.0	1116.0	
71 Dichlorobromomethane	83	8.235	8.235	0.000	98	111112	50.0	43.9	
74 cis-1,3-Dichloropropene	75	8.679	8.679	0.000	90	120696	50.0	40.7	
75 4-Methyl-2-pentanone (MIBK	43	8.825	8.825	0.000	99	202528	100.0	89.0	
76 Toluene	91	9.007	9.007	0.000	98	456382	50.0	49.9	
77 trans-1,3-Dichloropropene	75	9.257	9.257	0.000	98	108950	50.0	45.7	
78 Ethyl methacrylate	69	9.312	9.312	0.000	93	103890	50.0	45.0	
79 1,1,2-Trichloroethane	97	9.445	9.445	0.000	93	85442	50.0	49.1	
80 Tetrachloroethene	164	9.518	9.518	0.000	97	94129	50.0	53.1	
81 1,3-Dichloropropane	76	9.604	9.604	0.000	98	150139	50.0	46.5	
82 2-Hexanone	43	9.658	9.658	0.000	99	153528	100.0	93.5	
84 Chlorodibromomethane	129	9.823	9.823	0.000	91	82106	50.0	54.5	
85 Ethylene Dibromide	107	9.932	9.932	0.000	98	82532	50.0	49.3	
86 3-Chlorobenzotrifluoride	180	10.394	10.394	0.000	85	148557	50.0	50.6	
87 Chlorobenzene	112	10.419	10.419	0.000	95	288768	50.0	49.1	
88 4-Chlorobenzotrifluoride	180	10.480	10.480	0.000	95	144928	50.0	52.2	
89 1,1,1,2-Tetrachloroethane	131	10.510	10.510	0.000	94	95914	50.0	50.0	
90 Ethylbenzene	106	10.522	10.522	0.000	98	155928	50.0	50.0	
91 m-Xylene & p-Xylene	106	10.650	10.650	0.000	0	192369	50.0	50.3	
92 o-Xylene	106	11.033	11.033	0.000	97	177820	50.0	48.9	
93 Styrene	104	11.051	11.051	0.000	96	310895	50.0	51.6	
94 Bromoform	173	11.228	11.228	0.000	96	43893	50.0	51.1	
96 2-Chlorobenzotrifluoride	180	11.301	11.301	0.000	98	151852	50.0	52.5	
97 Isopropylbenzene	105	11.398	11.398	0.000	96	447072	50.0	50.2	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.708	0.000	94	111956	50.0	47.7	
100 Bromobenzene	156	11.708	11.708	0.000	92	116765	50.0	49.0	
102 trans-1,4-Dichloro-2-buten	53	11.745	11.745	0.000	79	25951	50.0	30.1	
101 1,2,3-Trichloropropane	110	11.769	11.769	0.000	85	36770	50.0	46.8	
103 N-Propylbenzene	120	11.812	11.812	0.000	99	128698	50.0	47.2	
104 2-Chlorotoluene	126	11.903	11.903	0.000	97	113711	50.0	49.1	
105 3-Chlorotoluene	126	11.970	11.970	0.000	94	115983	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.994	11.994	0.000	94	377283	50.0	49.0	
107 4-Chlorotoluene	126	12.025	12.025	0.000	97	124770	50.0	48.9	
108 tert-Butylbenzene	119	12.311	12.311	0.000	95	301705	50.0	48.2	
110 1,2,4-Trimethylbenzene	105	12.372	12.372	0.000	97	381966	50.0	49.5	
111 1,2-dichloro-4-(trifluorom	214	12.408	12.408	0.000	98	105124	50.0	48.9	
112 sec-Butylbenzene	105	12.536	12.536	0.000	94	438588	50.0	49.6	
113 1,3-Dichlorobenzene	146	12.651	12.651	0.000	99	222204	50.0	52.4	
114 4-Isopropyltoluene	119	12.688	12.688	0.000	97	375696	50.0	50.2	
115 1,4-Dichlorobenzene	146	12.755	12.755	0.000	97	227059	50.0	51.5	
116 2,4-Dichloro-1-(triflourom	214	12.779	12.779	0.000	96	99394	50.0	49.9	
118 2,5-Dichlorobenzotrifluori	214	12.822	12.822	0.000	0	106797	50.0	49.6	
120 n-Butylbenzene	91	13.102	13.102	0.000	98	303982	50.0	47.5	
121 1,2-Dichlorobenzene	146	13.108	13.108	0.000	99	208633	50.0	52.7	
122 1,2-Dibromo-3-Chloropropan	75	13.905	13.905	0.000	80	16451	50.0	50.6	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.045	14.045	0.000	0	365735	150.0	161.6	
125 2,3- & 3,4- Dichlorotoluen	125	14.464	14.464	0.000	0	233695	100.0	108.3	
126 1,2,4-Trichlorobenzene	180	14.726	14.726	0.000	93	86338	50.0	56.0	
127 Hexachlorobutadiene	225	14.872	14.872	0.000	97	41438	50.0	55.8	
128 Naphthalene	128	14.994	14.994	0.000	97	214965	50.0	54.3	
129 1,2,3-Trichlorobenzene	180	15.219	15.219	0.000	96	72208	50.0	57.9	
131 2,4,5-Trichlorotoluene	159	15.991	15.991	0.000	0	22149	50.0	49.2	
130 2,3,6-Trichlorotoluene	159	16.095	16.095	0.000	96	22279	50.0	53.7	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	89.4	
S 133 Xylenes, Total	106				0		100.0	99.2	
S 135 1,3-Dichloropropene, Total	1				0		100.0	86.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL		
VOA8260VOAPRI_00147	Amount Added:	2.00	Units: uL		
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL		
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent	
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent	

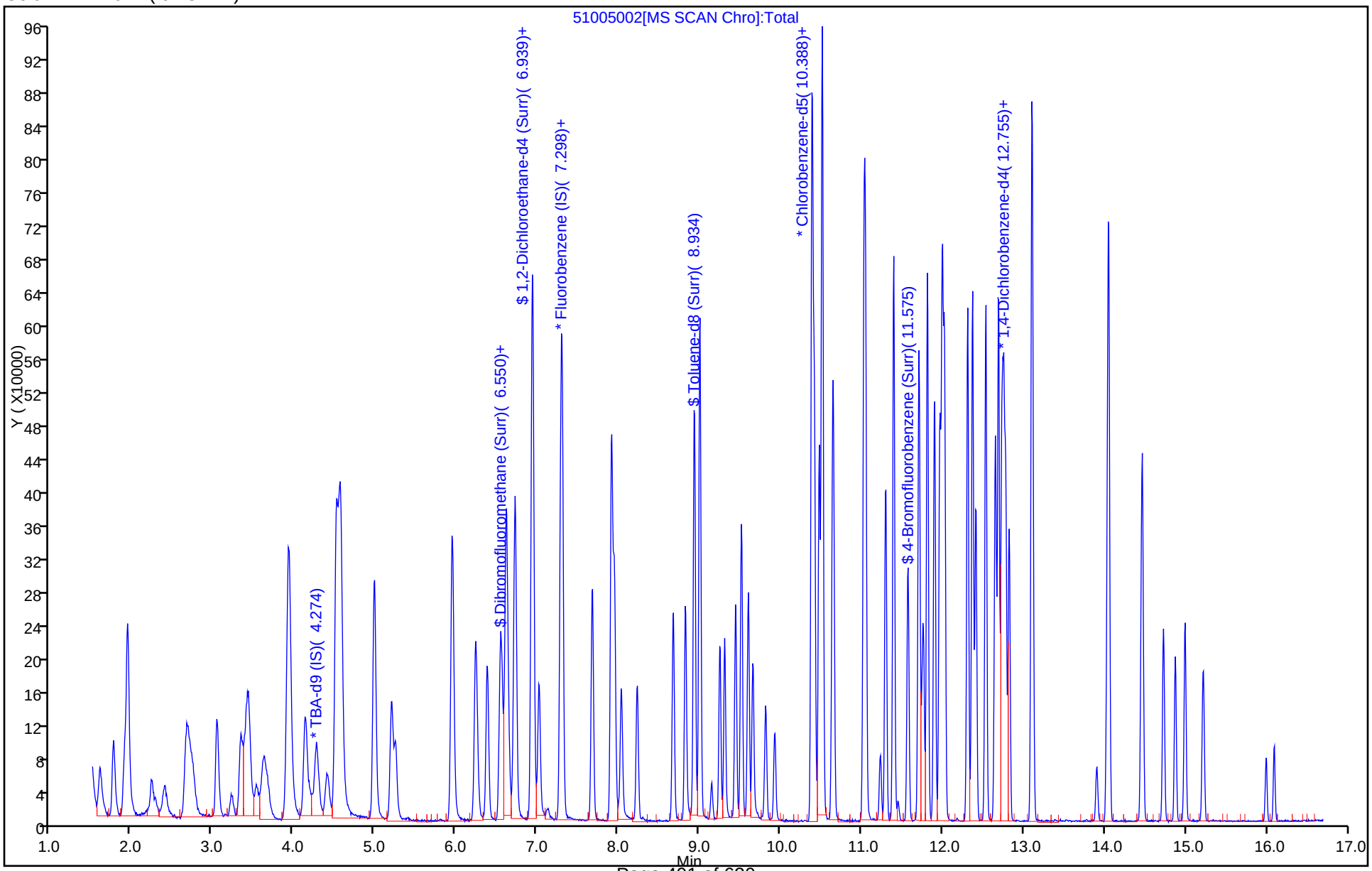
Report Date: 05-Oct-2015 12:09:17 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005002.D

Injection Date:	05-Oct-2015 10:56:30	Instrument ID:	CHHP5	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_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Aug-2015 14:01:30 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 180-0008300-007
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:26:53 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.366	8.366	0.000	0	128431	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

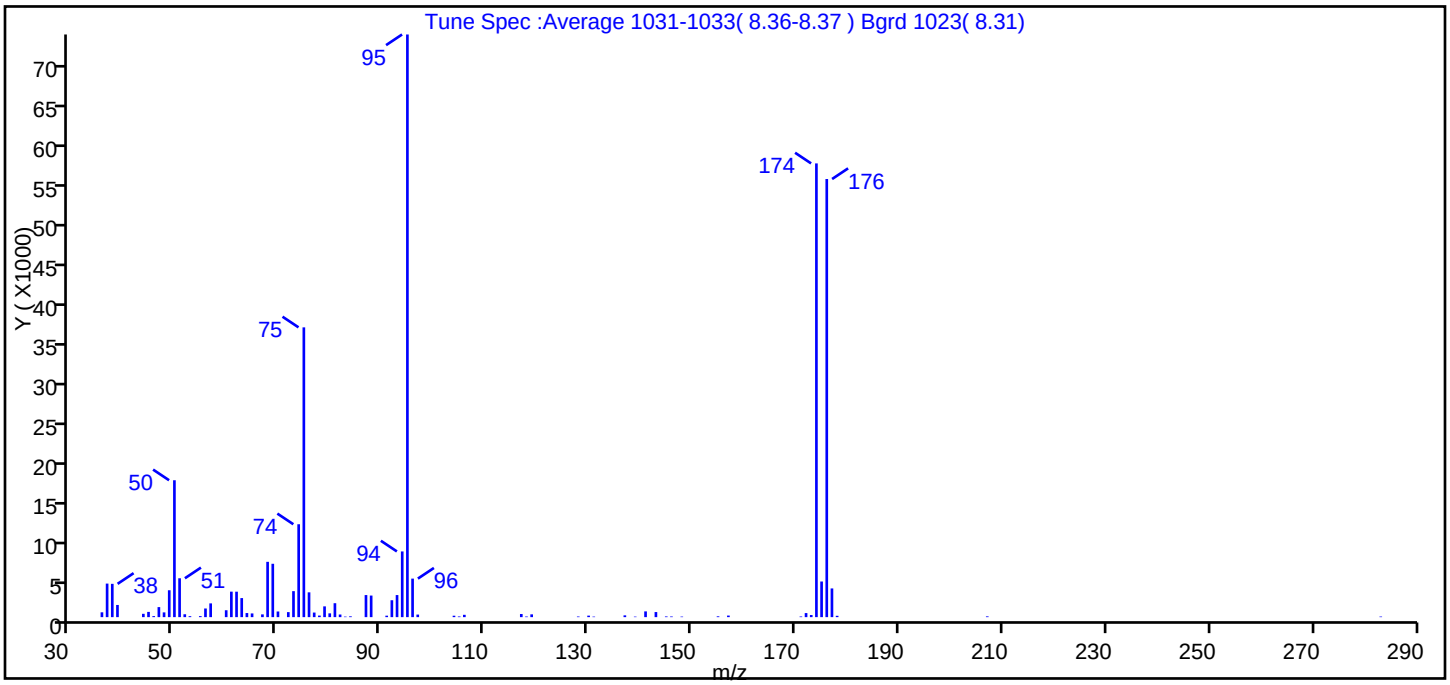
VOABFB25_00065 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D
Injection Date: 26-Aug-2015 14:01:30 Instrument ID: CHHP5
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 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	23.5
75	30 to 60% of m/z 95	49.7
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	77.9
175	5 to 9% of m/z 174	6.1 (7.9)
176	Greater than 95% but less than 101% of m/z 174	75.2 (96.6)
177	5 to 9% of m/z 176	4.9 (6.6)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D\MSVOA_LL_CHHP5.rslt\spectra
Injection Date: 26-Aug-2015 14:01:30
Spectrum: Tune Spec :Average 1031-1033(8.36-8.37) Bgrd 1023(8.31)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	611	63.00	2411	87.00	2793	141.00	728
37.00	4245	64.00	518	88.00	2731	143.00	645
38.00	4214	65.00	470	91.00	185	145.00	90
39.00	1541	67.00	350	92.00	2139	146.00	83
44.00	422	68.00	6998	93.00	2793	148.00	69
45.00	664	69.00	6752	94.00	8313	155.00	103
46.00	131	70.00	715	95.00	73720	157.00	200
47.00	1270	72.00	635	96.00	4875	171.00	82
48.00	602	73.00	3289	97.00	325	172.00	516
49.00	3402	74.00	11753	104.00	180	173.00	266
50.00	17320	75.00	36664	105.00	86	174.00	57408
51.00	4919	76.00	3139	106.00	295	175.00	4509
52.00	366	77.00	580	117.00	395	176.00	55432
53.00	119	78.00	199	118.00	78	177.00	3632
55.00	129	79.00	1363	119.00	354	178.00	170
56.00	1095	80.00	480	128.00	80	207.00	97
57.00	1741	81.00	1763	130.00	191	283.00	74
60.00	873	82.00	333	131.00	68		
61.00	3226	83.00	66	137.00	226		
62.00	3220	84.00	102	139.00	67		

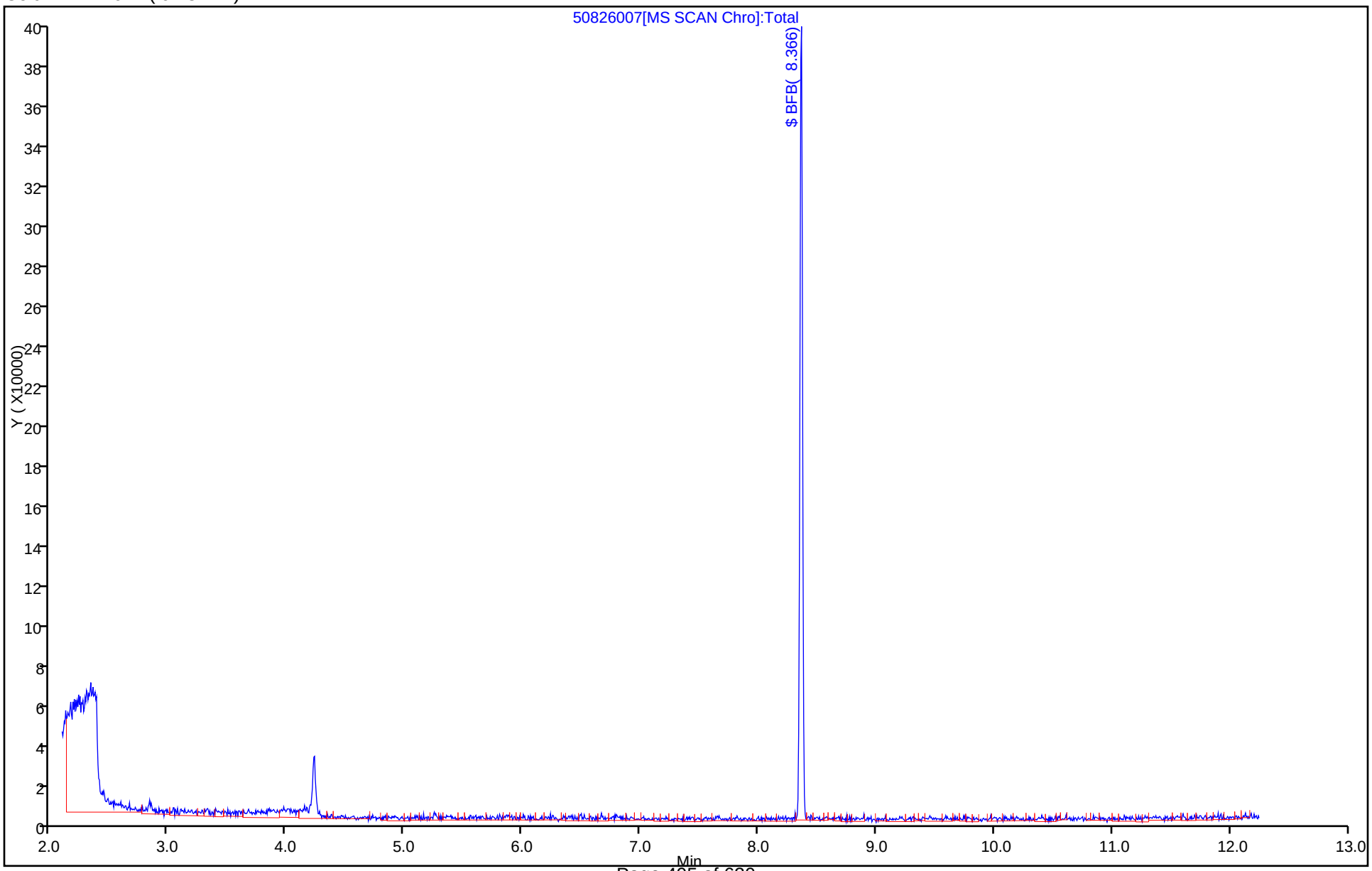
Report Date: 27-Aug-2015 11:26:54 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D

Injection Date:	26-Aug-2015 14:01:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001006.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Oct-2015 13:11:30 ALS Bottle#: 1 Worklist Smp#: 6
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 180-0008778-006
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 01-Oct-2015 14:56:17 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: fergusond Date: 01-Oct-2015 13:35:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.366	8.366	0.000	0	88906	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

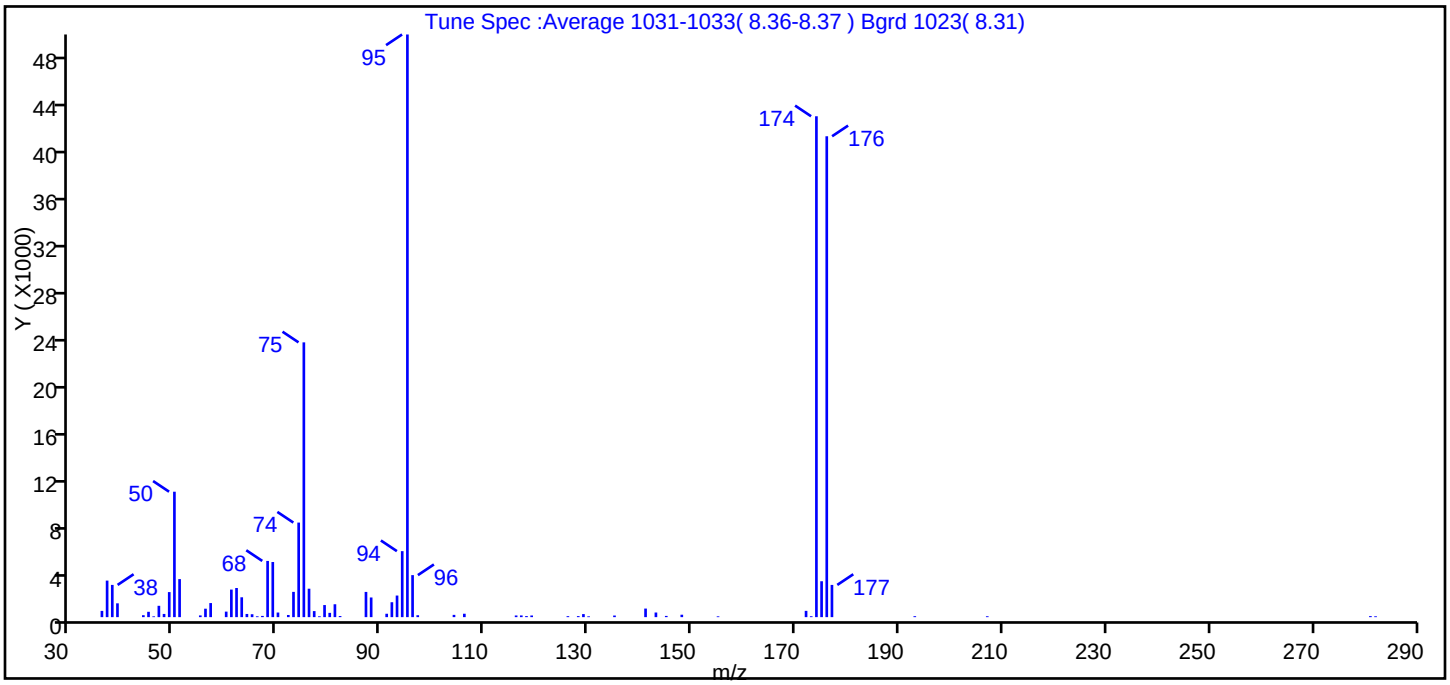
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001006.D				
Injection Date:	01-Oct-2015 13:11:30	Instrument ID:	CHHP5		
Lims ID:	BFB				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	6
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	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	21.5
75	30 to 60% of m/z 95	47.2
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	86.0
175	5 to 9% of m/z 174	6.2 (7.2)
176	Greater than 95% but less than 101% of m/z 174	82.5 (96.0)
177	5 to 9% of m/z 176	5.5 (6.7)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001006.D\MSVOA_LL_CHHP5.rslt\spectra
Injection Date: 01-Oct-2015 13:11:30
Spectrum: Tune Spec :Average 1031-1033(8.36-8.37) Bgrd 1023(8.31)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	530	63.00	1684	82.00	92	129.00	259
37.00	3099	64.00	270	87.00	2139	130.00	67
38.00	2734	65.00	247	88.00	1668	135.00	137
39.00	1172	66.00	70	91.00	288	141.00	727
44.00	165	67.00	104	92.00	1265	143.00	393
45.00	453	68.00	4767	93.00	1832	145.00	104
46.00	67	69.00	4675	94.00	5597	148.00	206
47.00	962	70.00	391	95.00	49416	155.00	68
48.00	272	72.00	183	96.00	3564	172.00	533
49.00	2124	73.00	2143	97.00	162	173.00	76
50.00	10638	74.00	8020	104.00	193	174.00	42480
51.00	3227	75.00	23304	106.00	289	175.00	3045
55.00	145	76.00	2412	116.00	141	176.00	40784
56.00	716	77.00	513	117.00	144	177.00	2733
57.00	1194	78.00	70	118.00	90	193.00	80
60.00	469	79.00	1025	119.00	140	207.00	75
61.00	2338	80.00	363	126.00	82	281.00	87
62.00	2471	81.00	1093	128.00	87	282.00	72

Report Date: 01-Oct-2015 14:56:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001006.D

Injection Date:	01-Oct-2015 13:11:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002005.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-Oct-2015 11:57:30 ALS Bottle#: 1 Worklist Smp#: 5
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 180-0008799-005
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 02-Oct-2015 13:57:38 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: fergusond Date: 02-Oct-2015 12:07:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.359	8.359	0.000	0	155174	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

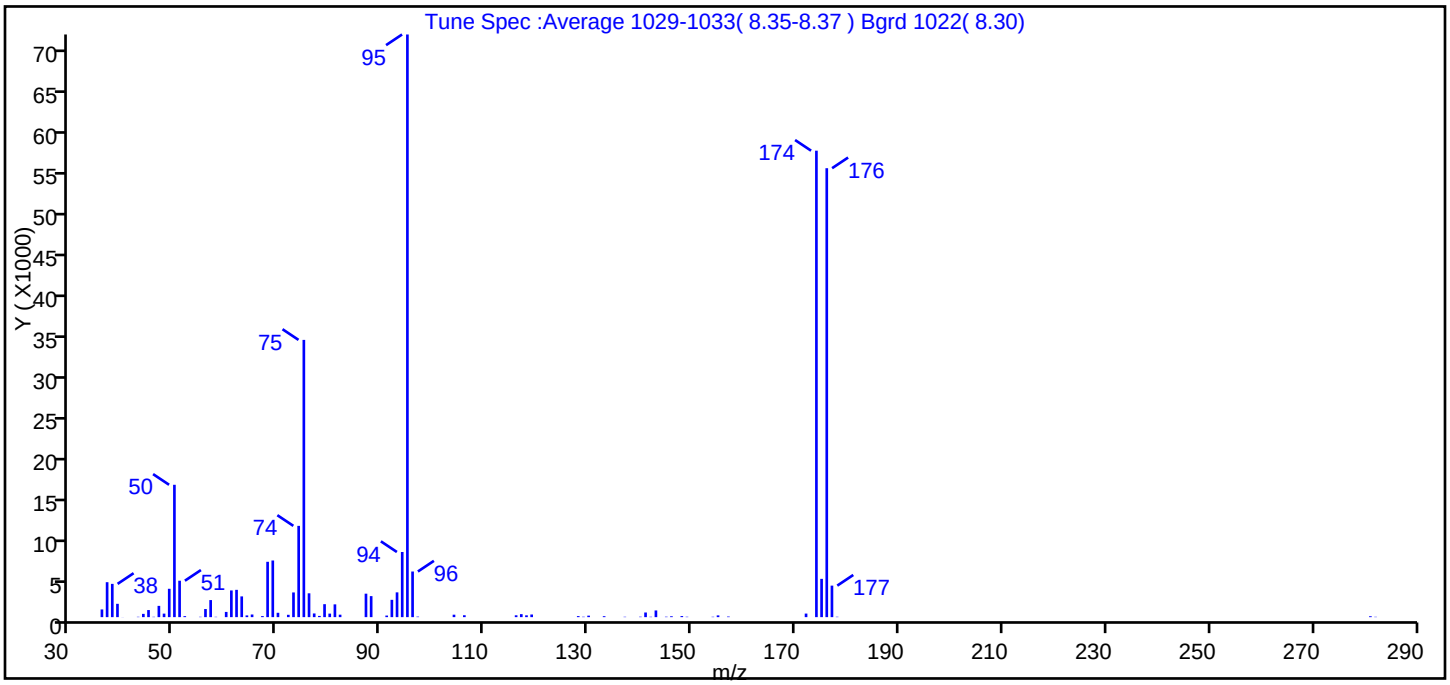
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002005.D
Injection Date: 02-Oct-2015 11:57:30 Instrument ID: CHHP5
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 5
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.7
75	30 to 60% of m/z 95	47.6
96	5 to 9% of m/z 95	7.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.1
175	5 to 9% of m/z 174	6.6 (8.2)
176	Greater than 95% but less than 101% of m/z 174	77.0 (96.2)
177	5 to 9% of m/z 176	5.4 (7.0)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002005.D\MSVOA_LL_CHHP5.rslt\spectra
Injection Date: 02-Oct-2015 11:57:30
Spectrum: Tune Spec :Average 1029-1033(8.35-8.37) Bgrd 1022(8.30)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	950	61.00	3293	87.00	2894	140.00	53
37.00	4309	62.00	3366	88.00	2592	141.00	573
38.00	4102	63.00	2558	91.00	195	142.00	45
39.00	1643	64.00	213	92.00	2135	143.00	825
40.00	10	65.00	327	93.00	3056	145.00	54
43.00	43	67.00	128	94.00	8032	146.00	107
44.00	404	68.00	6824	95.00	71840	148.00	132
45.00	874	69.00	6985	96.00	5626	149.00	48
46.00	42	70.00	537	97.00	65	154.00	46
47.00	1390	72.00	289	104.00	303	155.00	216
48.00	434	73.00	3045	106.00	235	157.00	73
49.00	3497	74.00	11254	116.00	228	172.00	440
50.00	16320	75.00	34184	117.00	369	174.00	57512
51.00	4491	76.00	2939	118.00	224	175.00	4720
52.00	122	77.00	454	119.00	327	176.00	55352
55.00	43	78.00	151	128.00	127	177.00	3886
56.00	999	79.00	1599	129.00	50	178.00	47
57.00	2105	80.00	435	130.00	185	281.00	110
58.00	40	81.00	1576	133.00	115	282.00	41
60.00	644	82.00	304	137.00	45		

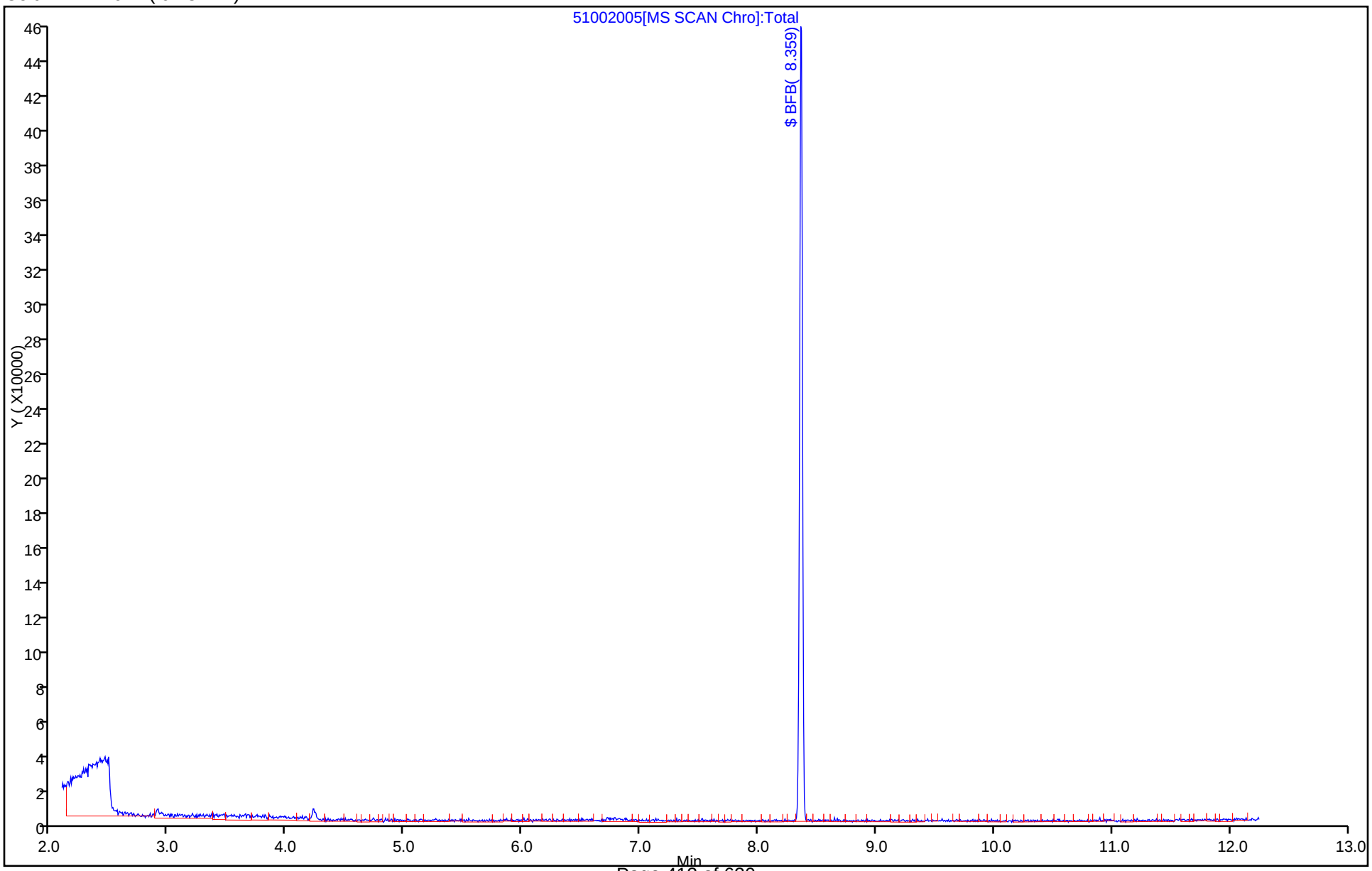
Report Date: 02-Oct-2015 13:57:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002005.D

Injection Date:	02-Oct-2015 11:57:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005001.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 05-Oct-2015 10:17:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 180-0008828-001
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 05-Oct-2015 12:09:10 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: fergusond Date: 05-Oct-2015 10:27:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.371	8.371	0.000	0	49373	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

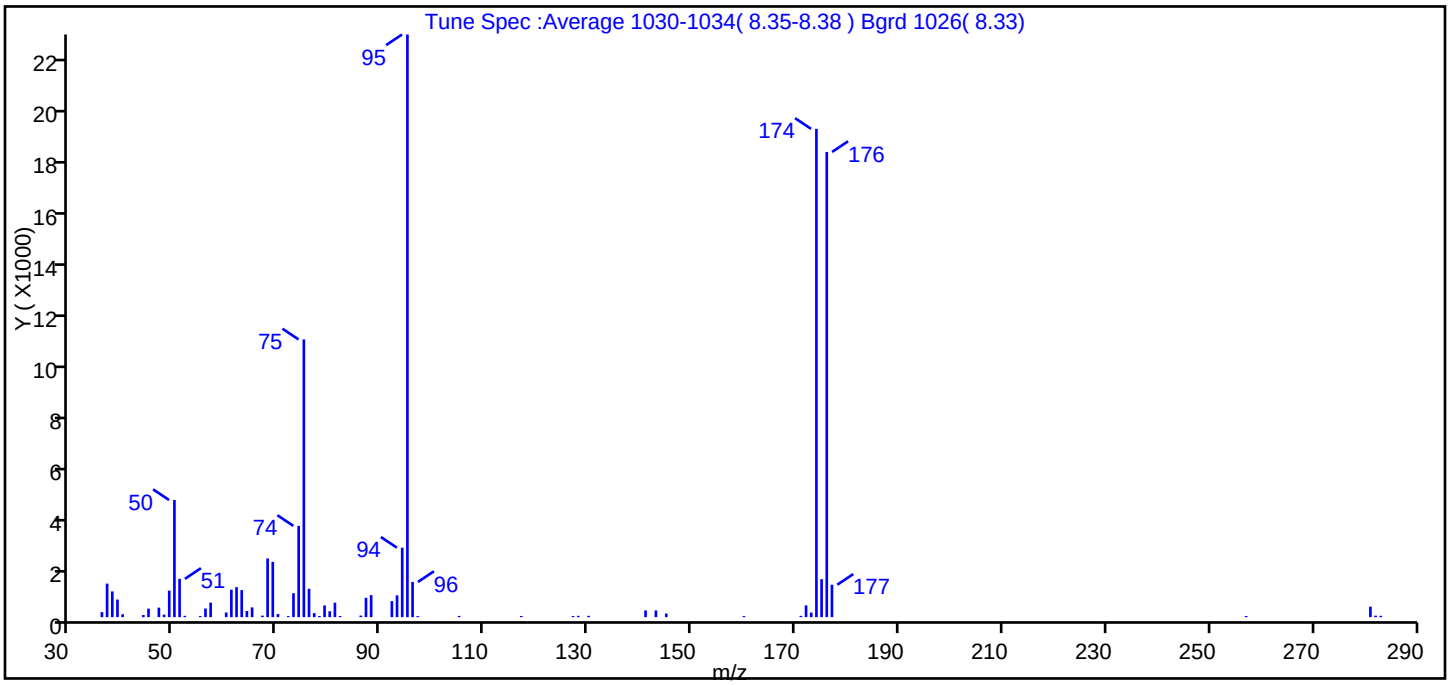
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005001.D
Injection Date: 05-Oct-2015 10:17:30 Instrument ID: CHHP5
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_CHHP5 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.1
75	30 to 60% of m/z 95	47.7
96	5 to 9% of m/z 95	6.0
173	Less than 2% of m/z 174	0.8 (0.9)
174	50 to 120% of m/z 95	83.8
175	5 to 9% of m/z 174	6.5 (7.8)
176	Greater than 95% but less than 101% of m/z 174	79.8 (95.3)
177	5 to 9% of m/z 176	5.6 (7.0)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005001.D\MSVOA_LL_CHHP5.rslt\spectra
Injection Date: 05-Oct-2015 10:17:30
Spectrum: Tune Spec :Average 1030-1034(8.35-8.38) Bgrd 1026(8.33)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	189	61.00	1038	80.00	222	141.00	255
37.00	1267	62.00	1133	81.00	546	143.00	252
38.00	972	63.00	1023	82.00	42	145.00	136
39.00	665	64.00	233	86.00	59	160.00	41
40.00	109	65.00	369	87.00	732	171.00	49
44.00	80	67.00	57	88.00	833	172.00	444
45.00	321	68.00	2218	92.00	606	173.00	172
47.00	359	69.00	2092	93.00	824	174.00	18456
48.00	95	70.00	118	94.00	2626	175.00	1435
49.00	1003	72.00	40	95.00	22024	176.00	17584
50.00	4427	73.00	905	96.00	1330	177.00	1225
51.00	1448	74.00	3450	97.00	40	257.00	43
52.00	51	75.00	10498	105.00	47	281.00	396
55.00	41	76.00	1072	117.00	45	282.00	55
56.00	327	77.00	152	127.00	42	283.00	51
57.00	549	78.00	42	128.00	50		
60.00	177	79.00	443	130.00	50		

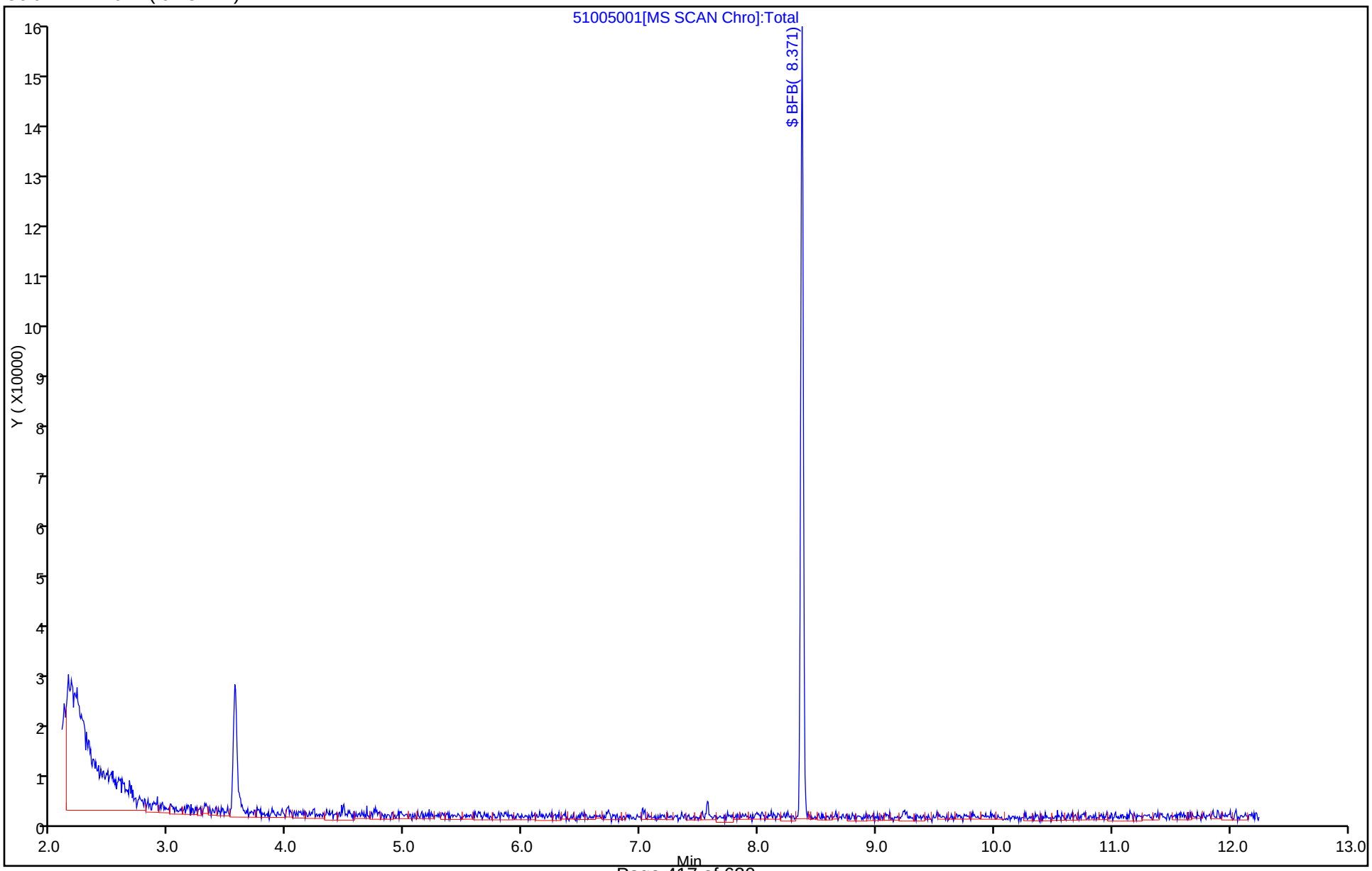
Report Date: 05-Oct-2015 12:09:11 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005001.D

Injection Date:	05-Oct-2015 10:17:30	Instrument ID:	CHHP5	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_CHHP5	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.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-155577/7

Matrix: Water | Lab File ID: 51001007.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 14:45

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 155577 | 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.: 180-48073-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-155577/7

Matrix: Water Lab File ID: 51001007.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2015 14:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 155577 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)	97		64-135
2037-26-5	Toluene-d8 (Surr)	95		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	99		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001007.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Oct-2015 14:45:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0008778-007
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 02-Oct-2015 08:12:07 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: fergusond Date: 02-Oct-2015 08:12:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.267	4.278	-0.011	0	120179	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.291	7.289	0.002	98	325318	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.386	0.001	87	84064	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.729	12.728	0.001	96	117882	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.567	6.559	0.008	94	79079	50.0	49.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.938	6.936	0.002	0	106725	50.0	48.6	
$ 7 Toluene-d8 (Surr)	98	8.939	8.938	0.001	94	307008	50.0	47.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.574	11.572	0.002	89	107190	50.0	43.8	
11 Dichlorodifluoromethane	85		1.613					ND	
12 Chloromethane	50		1.759					ND	
13 Vinyl chloride	62		1.905					ND	
14 Butadiene	39		1.936					ND	
15 Bromomethane	94		2.234					ND	
16 Chloroethane	64		2.386					ND	
17 Dichlorofluoromethane	67		2.666					ND	
18 Trichlorofluoromethane	101		2.702					ND	
19 Ethanol	45		2.957					ND	
20 Ethyl ether	59		3.049					ND	
21 Acrolein	56		3.232					ND	
22 1,1-Dichloroethene	96		3.347					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.414					ND	
24 Acetone	43		3.438					ND	
25 Iodomethane	142		3.542					ND	
26 Carbon disulfide	76		3.633					ND	
27 Isopropyl alcohol	45		3.706					ND	
29 Acetonitrile	40		3.870					ND	
28 3-Chloro-1-propene	76		3.925					ND	
30 Methyl acetate	43		3.937					ND	
31 Methylene Chloride	84	4.158	4.138	0.020	20	1843		-5.23	
32 2-Methyl-2-propanol	59		4.406					ND	
33 Acrylonitrile	53		4.521					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		4.564					ND	
35 Methyl tert-butyl ether	73		4.576					ND	
36 Hexane	57		4.990					ND	
37 1,1-Dichloroethane	63		5.196					ND	
38 Vinyl acetate	43		5.245					ND	
39 2-Chloro-1,3-butadiene	53		5.299					ND	
41 Isopropyl ether	45		5.299					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.780					ND	
44 2,2-Dichloropropane	77		5.945					ND	
45 cis-1,2-Dichloroethene	96		5.951					ND	
46 2-Butanone (MEK)	43		5.957					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
48 Ethyl acetate	43		6.036					ND	
47 Propionitrile	54		6.036					ND	
50 Methacrylonitrile	41		6.212					ND	
49 Chlorobromomethane	128		6.231					ND	
51 Tetrahydrofuran	42		6.249					ND	
52 Chloroform	83		6.383					ND	
53 1,1,1-Trichloroethane	97		6.541					ND	
54 Cyclohexane	56		6.614					ND	
56 Carbon tetrachloride	117		6.711					ND	
55 1,1-Dichloropropene	75		6.730					ND	
57 Isobutyl alcohol	41		6.924					ND	
58 Benzene	78		6.942					ND	
59 1,2-Dichloroethane	62		7.022					ND	
61 Tert-amyl methyl ether	73		7.125					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.307					ND	
63 n-Butanol	56		7.629					ND	
64 Trichloroethene	130		7.679					ND	
65 Ethyl acrylate	55		7.800					ND	
66 Methylcyclohexane	83		7.916					ND	
67 1,2-Dichloropropane	63		7.952					ND	
70 1,4-Dioxane	88		8.025					ND	
69 Methyl methacrylate	69		8.031					ND	
68 Dibromomethane	93		8.031					ND	
71 Dichlorobromomethane	83		8.232					ND	
72 2-Nitropropane	41		8.451					ND	
73 2-Chloroethyl vinyl ether	63		8.526					ND	
74 cis-1,3-Dichloropropene	75		8.676					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.822					ND	
76 Toluene	91		9.005					ND	
77 trans-1,3-Dichloropropene	75		9.254					ND	
78 Ethyl methacrylate	69		9.309					ND	
79 1,1,2-Trichloroethane	97		9.449					ND	
80 Tetrachloroethene	164		9.516					ND	
81 1,3-Dichloropropane	76		9.601					ND	
82 2-Hexanone	43		9.656					ND	
83 n-Butyl acetate	43		9.783					ND	
84 Chlorodibromomethane	129		9.814					ND	
85 Ethylene Dibromide	107		9.929					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.392					ND	
87 Chlorobenzene	112		10.416					ND	
88 4-Chlorobenzotrifluoride	180		10.477					ND	
89 1,1,1,2-Tetrachloroethane	131		10.507					ND	
90 Ethylbenzene	106		10.513					ND	
91 m-Xylene & p-Xylene	106		10.647					ND	
92 o-Xylene	106		11.031					ND	
93 Styrene	104		11.049					ND	
94 Bromoform	173		11.231					ND	
95 Cyclohexanol	57		11.245					ND	
96 2-Chlorobenzotrifluoride	180		11.298					ND	
97 Isopropylbenzene	105		11.396					ND	
98 Cyclohexanone	55		11.480					ND	
99 1,1,2,2-Tetrachloroethane	83		11.706					ND	
100 Bromobenzene	156		11.712					ND	
102 trans-1,4-Dichloro-2-buten	53		11.742					ND	
101 1,2,3-Trichloropropane	110		11.761					ND	
103 N-Propylbenzene	120		11.809					ND	
104 2-Chlorotoluene	126		11.900					ND	
105 3-Chlorotoluene	126		11.961					ND	
106 1,3,5-Trimethylbenzene	105		11.998					ND	
107 4-Chlorotoluene	126		12.022					ND	
108 tert-Butylbenzene	119		12.308					ND	
109 Pentachloroethane	167		12.338					ND	
110 1,2,4-Trimethylbenzene	105		12.369					ND	
111 1,2-dichloro-4-(trifluorom	214		12.411					ND	
112 sec-Butylbenzene	105		12.533					ND	
113 1,3-Dichlorobenzene	146		12.649					ND	
114 4-Isopropyltoluene	119		12.691					ND	
115 1,4-Dichlorobenzene	146		12.752					ND	
117 1,2,3-Trimethylbenzene	105		12.776					ND	
116 2,4-Dichloro-1-(triflourom	214		12.776					ND	
118 2,5-Dichlorobenzotrifluori	214		12.825					ND	
119 Benzyl chloride	91		12.867					ND	
120 n-Butylbenzene	91		13.099					ND	
121 1,2-Dichlorobenzene	146		13.111					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.902					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.042					ND	
124 1,3,5-Trichlorobenzene	180		14.087					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.462					ND	
126 1,2,4-Trichlorobenzene	180		14.723					ND	
127 Hexachlorobutadiene	225		14.869					ND	
128 Naphthalene	128		14.991					ND	
129 1,2,3-Trichlorobenzene	180		15.216					ND	
131 2,4,5-Trichlorotoluene	159		15.995					ND	
130 2,3,6-Trichlorotoluene	159		16.086					ND	
132 2-Methylnaphthalene	142		16.134					ND	
147 2,4-Dichlorotoluene	1		0.000					ND	
149 3,4-Dichlorotoluene	1		0.000					ND	
150 2,6-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
148 2,3-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 2,5-Dichlorotoluene	1		0.000					ND	
151 Isooctane	57		0.000					ND	
S 133 Xylenes, Total	106		1.000					ND	
S 134 1,2-Dichloroethene, Total	96		1.000					ND	
S 135 1,3-Dichloropropene, Total	1		0.000					ND	
T 136 Mesityl oxide TIC	83		0.000					ND	
T 138 Methyl n-amyl ketone TIC	43		0.000					ND	
T 137 Tetrahydrofuran TIC	42		6.253					ND	
T 153 1,2 Epoxybutane TIC	42		6.253					ND	

Reagents:

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

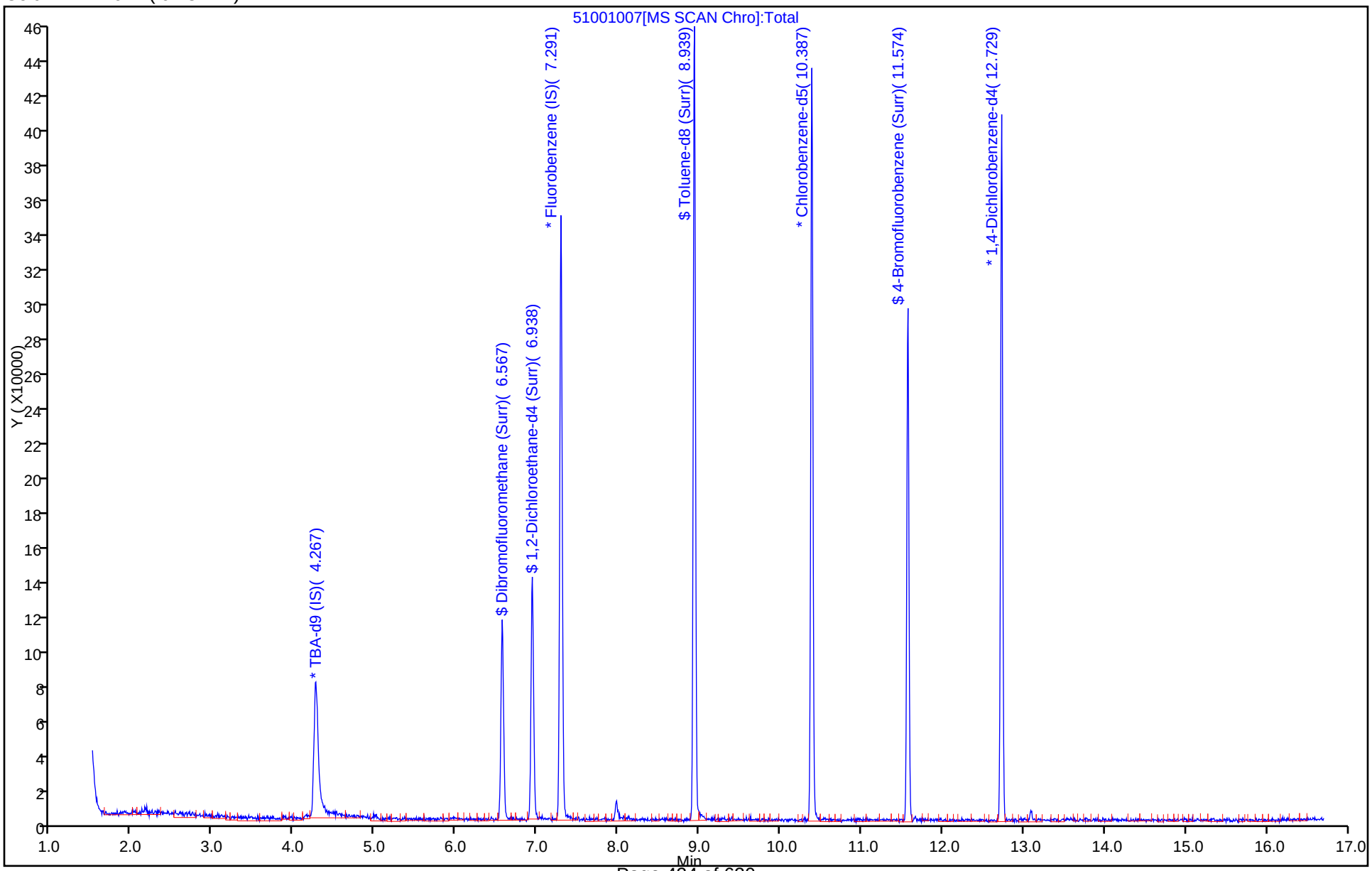
Report Date: 02-Oct-2015 08:12:09 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001007.D

Injection Date:	01-Oct-2015 14:45:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_LL_CHHP5	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.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-155711/6

Matrix: Water | Lab File ID: 51002006.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2015 13:42

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.: 155711 | 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.: 180-48073-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-155711/6

Matrix: Water Lab File ID: 51002006.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2015 13:42

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.: 155711 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)	96		64-135
2037-26-5	Toluene-d8 (Surr)	92		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	101		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002006.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Oct-2015 13:42:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0008799-006
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 02-Oct-2015 14:05:40 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: fergusond Date: 02-Oct-2015 14:05:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.270	4.268	0.002	0	119676	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.293	7.285	0.008	98	325212	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.384	10.388	-0.004	86	85059	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.732	12.730	0.002	96	118383	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.569	6.561	0.008	93	80427	50.0	50.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.934	6.932	0.002	0	105350	50.0	48.0	
$ 7 Toluene-d8 (Surr)	98	8.936	8.934	0.002	94	303441	50.0	46.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.570	11.568	0.002	89	108425	50.0	43.8	
11 Dichlorodifluoromethane	85		1.597					ND	
12 Chloromethane	50		1.767					ND	
13 Vinyl chloride	62		1.907					ND	
14 Butadiene	39		1.938					ND	
15 Bromomethane	94		2.236					ND	
16 Chloroethane	64		2.388					ND	
17 Dichlorofluoromethane	67		2.662					ND	
18 Trichlorofluoromethane	101		2.704					ND	
19 Ethanol	45		2.957					ND	
20 Ethyl ether	59		3.051					ND	
21 Acrolein	56		3.215					ND	
22 1,1-Dichloroethene	96		3.349					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.410					ND	
24 Acetone	43		3.440					ND	
25 Iodomethane	142		3.532					ND	
26 Carbon disulfide	76		3.629					ND	
27 Isopropyl alcohol	45		3.706					ND	
29 Acetonitrile	40		3.870					ND	
28 3-Chloro-1-propene	76		3.921					ND	
30 Methyl acetate	43		3.933					ND	
31 Methylene Chloride	84		4.128					ND	
32 2-Methyl-2-propanol	59		4.401					ND	
33 Acrylonitrile	53		4.517					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		4.560					ND	
35 Methyl tert-butyl ether	73		4.572					ND	
36 Hexane	57		4.985					ND	
37 1,1-Dichloroethane	63		5.198					ND	
38 Vinyl acetate	43		5.247					ND	
39 2-Chloro-1,3-butadiene	53		5.299					ND	
41 Isopropyl ether	45		5.299					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.780					ND	
44 2,2-Dichloropropane	77		5.941					ND	
45 cis-1,2-Dichloroethene	96		5.947					ND	
46 2-Butanone (MEK)	43		5.953					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
47 Propionitrile	54		6.036					ND	
48 Ethyl acetate	43		6.036					ND	
50 Methacrylonitrile	41		6.212					ND	
49 Chlorobromomethane	128		6.233					ND	
51 Tetrahydrofuran	42		6.251					ND	
52 Chloroform	83		6.379					ND	
53 1,1,1-Trichloroethane	97		6.537					ND	
54 Cyclohexane	56		6.616					ND	
56 Carbon tetrachloride	117		6.713					ND	
55 1,1-Dichloropropene	75		6.725					ND	
57 Isobutyl alcohol	41		6.926					ND	
58 Benzene	78		6.938					ND	
59 1,2-Dichloroethane	62		7.011					ND	
61 Tert-amyl methyl ether	73		7.125					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.303					ND	
63 n-Butanol	56		7.629					ND	
64 Trichloroethene	130		7.674					ND	
65 Ethyl acrylate	55		7.800					ND	
66 Methylcyclohexane	83		7.912					ND	
67 1,2-Dichloropropane	63		7.948					ND	
69 Methyl methacrylate	69		8.031					ND	
68 Dibromomethane	93		8.033					ND	
70 1,4-Dioxane	88		8.033					ND	
71 Dichlorobromomethane	83		8.228					ND	
72 2-Nitropropane	41		8.451					ND	
73 2-Chloroethyl vinyl ether	63		8.526					ND	
74 cis-1,3-Dichloropropene	75		8.672					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.824					ND	
76 Toluene	91		9.001					ND	
77 trans-1,3-Dichloropropene	75		9.250					ND	
78 Ethyl methacrylate	69		9.311					ND	
79 1,1,2-Trichloroethane	97		9.445					ND	
80 Tetrachloroethene	164		9.518					ND	
81 1,3-Dichloropropane	76		9.603					ND	
82 2-Hexanone	43		9.658					ND	
83 n-Butyl acetate	43		9.783					ND	
84 Chlorodibromomethane	129		9.810					ND	
85 Ethylene Dibromide	107		9.925					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.388					ND	
87 Chlorobenzene	112		10.412					ND	
88 4-Chlorobenzotrifluoride	180		10.473					ND	
89 1,1,1,2-Tetrachloroethane	131		10.509					ND	
90 Ethylbenzene	106		10.515					ND	
91 m-Xylene & p-Xylene	106		10.643					ND	
92 o-Xylene	106		11.026					ND	
93 Styrene	104		11.051					ND	
94 Bromoform	173		11.233					ND	
95 Cyclohexanol	57		11.245					ND	
96 2-Chlorobenzotrifluoride	180		11.294					ND	
97 Isopropylbenzene	105		11.397					ND	
98 Cyclohexanone	55		11.480					ND	
99 1,1,2,2-Tetrachloroethane	83		11.708					ND	
100 Bromobenzene	156		11.708					ND	
102 trans-1,4-Dichloro-2-buten	53		11.744					ND	
101 1,2,3-Trichloropropane	110		11.762					ND	
103 N-Propylbenzene	120		11.811					ND	
104 2-Chlorotoluene	126		11.896					ND	
105 3-Chlorotoluene	126		11.963					ND	
106 1,3,5-Trimethylbenzene	105		11.994					ND	
107 4-Chlorotoluene	126		12.024					ND	
108 tert-Butylbenzene	119		12.310					ND	
109 Pentachloroethane	167		12.338					ND	
110 1,2,4-Trimethylbenzene	105		12.365					ND	
111 1,2-dichloro-4-(trifluorom	214		12.413					ND	
112 sec-Butylbenzene	105		12.529					ND	
113 1,3-Dichlorobenzene	146		12.651					ND	
114 4-Isopropyltoluene	119		12.687					ND	
115 1,4-Dichlorobenzene	146		12.754					ND	
117 1,2,3-Trimethylbenzene	105		12.776					ND	
116 2,4-Dichloro-1-(triflourom	214		12.778					ND	
118 2,5-Dichlorobenzotrifluori	214		12.821					ND	
119 Benzyl chloride	91		12.867					ND	
120 n-Butylbenzene	91		13.095					ND	
121 1,2-Dichlorobenzene	146		13.107					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.898					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.044					ND	
124 1,3,5-Trichlorobenzene	180		14.087					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.464					ND	
126 1,2,4-Trichlorobenzene	180		14.725					ND	
127 Hexachlorobutadiene	225		14.871					ND	
128 Naphthalene	128		14.993					ND	
129 1,2,3-Trichlorobenzene	180		15.212					ND	
131 2,4,5-Trichlorotoluene	159		15.990					ND	
130 2,3,6-Trichlorotoluene	159		16.088					ND	
132 2-Methylnaphthalene	142		16.134					ND	
150 2,6-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
149 3,4-Dichlorotoluene	1		0.000					ND	
151 Isooctane	57		0.000					ND	
146 2,5-Dichlorotoluene	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
147 2,4-Dichlorotoluene	1		0.000					ND	
148 2,3-Dichlorotoluene	1		0.000					ND	
S 133 Xylenes, Total	106		1.000					ND	
S 134 1,2-Dichloroethene, Total	96		1.000					ND	
S 135 1,3-Dichloropropene, Total	1		0.000					ND	
T 136 Mesityl oxide TIC	83		0.000					ND	
T 138 Methyl n-amyl ketone TIC	43		0.000					ND	
T 137 Tetrahydrofuran TIC	42		6.253					ND	
T 153 1,2 Epoxybutane TIC	42		6.253					ND	

Reagents:

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

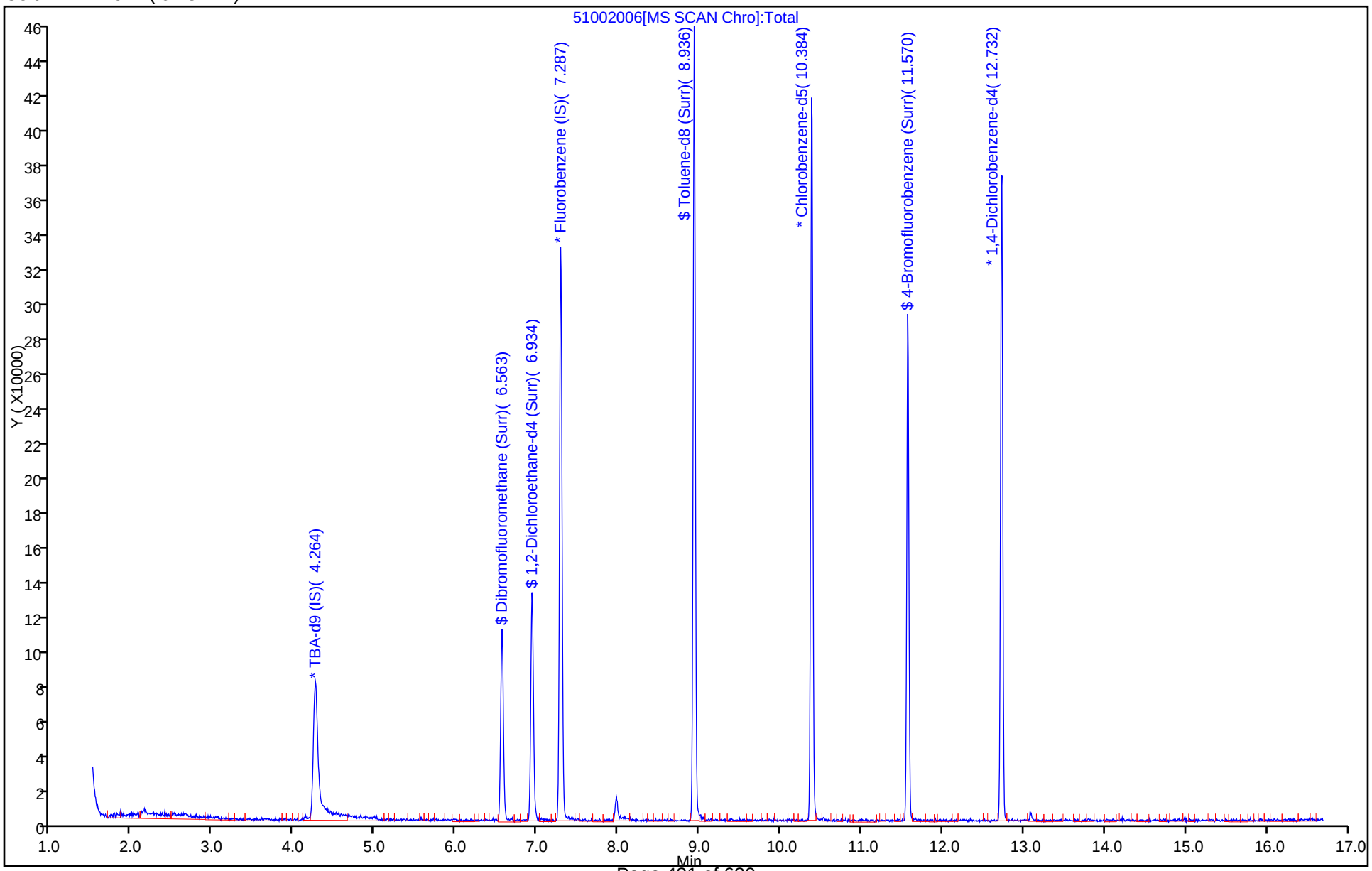
Report Date: 02-Oct-2015 14:05:40 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002006.D

Injection Date:	02-Oct-2015 13:42:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_LL_CHHP5	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.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-155884/4

Matrix: Water | Lab File ID: 51005004.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/05/2015 11:57

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.: 155884 | 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.: 180-48073-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-155884/4

Matrix: Water Lab File ID: 51005004.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2015 11:57

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.: 155884 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)	93		64-135
2037-26-5	Toluene-d8 (Surr)	91		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	105		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005004.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Oct-2015 11:57:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0008828-004
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 05-Oct-2015 12:28:25 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: fergusond Date: 05-Oct-2015 12:28:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.273	4.281	-0.008	0	159358	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.292	-0.002	98	345349	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.388	-0.001	87	89221	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.735	12.730	0.005	95	130925	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.568	-0.002	93	89075	50.0	52.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.933	0.004	0	108531	50.0	46.6	
$ 7 Toluene-d8 (Surr)	98	8.939	8.940	-0.001	94	312999	50.0	45.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.575	-0.002	91	113703	50.0	43.8	
11 Dichlorodifluoromethane	85		1.604					ND	
12 Chloromethane	50		1.774					ND	
13 Vinyl chloride	62		1.908					ND	
14 Butadiene	39		1.951					ND	
15 Bromomethane	94		2.249					ND	
16 Chloroethane	64		2.413					ND	
17 Dichlorofluoromethane	67		2.675					ND	
18 Trichlorofluoromethane	101		2.699					ND	
19 Ethanol	45		2.957					ND	
20 Ethyl ether	59		3.046					ND	
21 Acrolein	56		3.222					ND	
22 1,1-Dichloroethene	96		3.344					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.423					ND	
24 Acetone	43		3.441					ND	
25 Iodomethane	142		3.538					ND	
26 Carbon disulfide	76		3.636					ND	
27 Isopropyl alcohol	45		3.706					ND	
29 Acetonitrile	40		3.870					ND	
28 3-Chloro-1-propene	76		3.922					ND	
30 Methyl acetate	43		3.940					ND	
31 Methylene Chloride	84		4.141					ND	
32 2-Methyl-2-propanol	59		4.402					ND	
33 Acrylonitrile	53		4.524					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		4.566					ND	
35 Methyl tert-butyl ether	73		4.579					ND	
36 Hexane	57		4.992					ND	
37 1,1-Dichloroethane	63		5.199					ND	
38 Vinyl acetate	43		5.254					ND	
41 Isopropyl ether	45		5.299					ND	
39 2-Chloro-1,3-butadiene	53		5.299					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.780					ND	
44 2,2-Dichloropropane	77		5.947					ND	
45 cis-1,2-Dichloroethene	96		5.954					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
46 2-Butanone (MEK)	43		5.966					ND	
48 Ethyl acetate	43		6.036					ND	
47 Propionitrile	54		6.036					ND	
50 Methacrylonitrile	41		6.212					ND	
49 Chlorobromomethane	128		6.233					ND	
51 Tetrahydrofuran	42		6.252					ND	
52 Chloroform	83		6.379					ND	
53 1,1,1-Trichloroethane	97		6.550					ND	
54 Cyclohexane	56		6.617					ND	
56 Carbon tetrachloride	117		6.720					ND	
55 1,1-Dichloropropene	75		6.732					ND	
57 Isobutyl alcohol	41		6.927					ND	
58 Benzene	78		6.945					ND	
59 1,2-Dichloroethane	62		7.024					ND	
61 Tert-amyl methyl ether	73		7.125					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.310					ND	
63 n-Butanol	56		7.629					ND	
64 Trichloroethene	130		7.675					ND	
65 Ethyl acrylate	55		7.800					ND	
66 Methylcyclohexane	83		7.912					ND	
67 1,2-Dichloropropane	63		7.949					ND	
69 Methyl methacrylate	69		8.031					ND	
68 Dibromomethane	93		8.034					ND	
70 1,4-Dioxane	88		8.034					ND	
71 Dichlorobromomethane	83		8.235					ND	
72 2-Nitropropane	41		8.451					ND	
73 2-Chloroethyl vinyl ether	63		8.526					ND	
74 cis-1,3-Dichloropropene	75		8.679					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.825					ND	
76 Toluene	91		9.007					ND	
77 trans-1,3-Dichloropropene	75		9.257					ND	
78 Ethyl methacrylate	69		9.312					ND	
79 1,1,2-Trichloroethane	97		9.445					ND	
80 Tetrachloroethene	164		9.518					ND	
81 1,3-Dichloropropane	76		9.604					ND	
82 2-Hexanone	43		9.658					ND	
83 n-Butyl acetate	43		9.783					ND	
84 Chlorodibromomethane	129		9.823					ND	
85 Ethylene Dibromide	107		9.932					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.394					ND	
87 Chlorobenzene	112		10.419					ND	
88 4-Chlorobenzotrifluoride	180		10.480					ND	
89 1,1,1,2-Tetrachloroethane	131		10.510					ND	
90 Ethylbenzene	106		10.522					ND	
91 m-Xylene & p-Xylene	106		10.650					ND	
92 o-Xylene	106		11.033					ND	
93 Styrene	104		11.051					ND	
94 Bromoform	173		11.228					ND	
95 Cyclohexanol	57		11.245					ND	
96 2-Chlorobenzotrifluoride	180		11.301					ND	
97 Isopropylbenzene	105		11.398					ND	
98 Cyclohexanone	55		11.480					ND	
99 1,1,2,2-Tetrachloroethane	83		11.708					ND	
100 Bromobenzene	156		11.708					ND	
102 trans-1,4-Dichloro-2-buten	53		11.745					ND	
101 1,2,3-Trichloropropane	110		11.769					ND	
103 N-Propylbenzene	120		11.812					ND	
104 2-Chlorotoluene	126		11.903					ND	
105 3-Chlorotoluene	126		11.970					ND	
106 1,3,5-Trimethylbenzene	105		11.994					ND	
107 4-Chlorotoluene	126		12.025					ND	
108 tert-Butylbenzene	119		12.311					ND	
109 Pentachloroethane	167		12.338					ND	
110 1,2,4-Trimethylbenzene	105		12.372					ND	
111 1,2-dichloro-4-(trifluorom	214		12.408					ND	
112 sec-Butylbenzene	105		12.536					ND	
113 1,3-Dichlorobenzene	146		12.651					ND	
114 4-Isopropyltoluene	119		12.688					ND	
115 1,4-Dichlorobenzene	146		12.755					ND	
117 1,2,3-Trimethylbenzene	105		12.776					ND	
116 2,4-Dichloro-1-(triflourom	214		12.779					ND	
118 2,5-Dichlorobenzotrifluori	214		12.822					ND	
119 Benzyl chloride	91		12.867					ND	
120 n-Butylbenzene	91		13.102					ND	
121 1,2-Dichlorobenzene	146		13.108					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.905					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.045					ND	
124 1,3,5-Trichlorobenzene	180		14.087					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.464					ND	
126 1,2,4-Trichlorobenzene	180		14.726					ND	
127 Hexachlorobutadiene	225		14.872					ND	
128 Naphthalene	128		14.994					ND	
129 1,2,3-Trichlorobenzene	180		15.219					ND	
131 2,4,5-Trichlorotoluene	159		15.991					ND	
130 2,3,6-Trichlorotoluene	159		16.095					ND	
132 2-Methylnaphthalene	142		16.134					ND	
152 Formaldehyde TIC	1		0.000					ND	
148 2,3-Dichlorotoluene	1		0.000					ND	
151 Isooctane	57		0.000					ND	
146 2,5-Dichlorotoluene	1		0.000					ND	
150 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 3,4-Dichlorotoluene	1		0.000					ND	
147 2,4-Dichlorotoluene	1		0.000					ND	
S 133 Xylenes, Total	106		1.000					ND	
S 134 1,2-Dichloroethene, Total	96		1.000					ND	
S 135 1,3-Dichloropropene, Total	1		0.000					ND	
T 136 Mesityl oxide TIC	83		0.000					ND	
T 138 Methyl n-amyl ketone TIC	43		0.000					ND	
T 137 Tetrahydrofuran TIC	42		6.253					ND	
T 153 1,2 Epoxybutane TIC	42		6.253					ND	

Reagents:

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

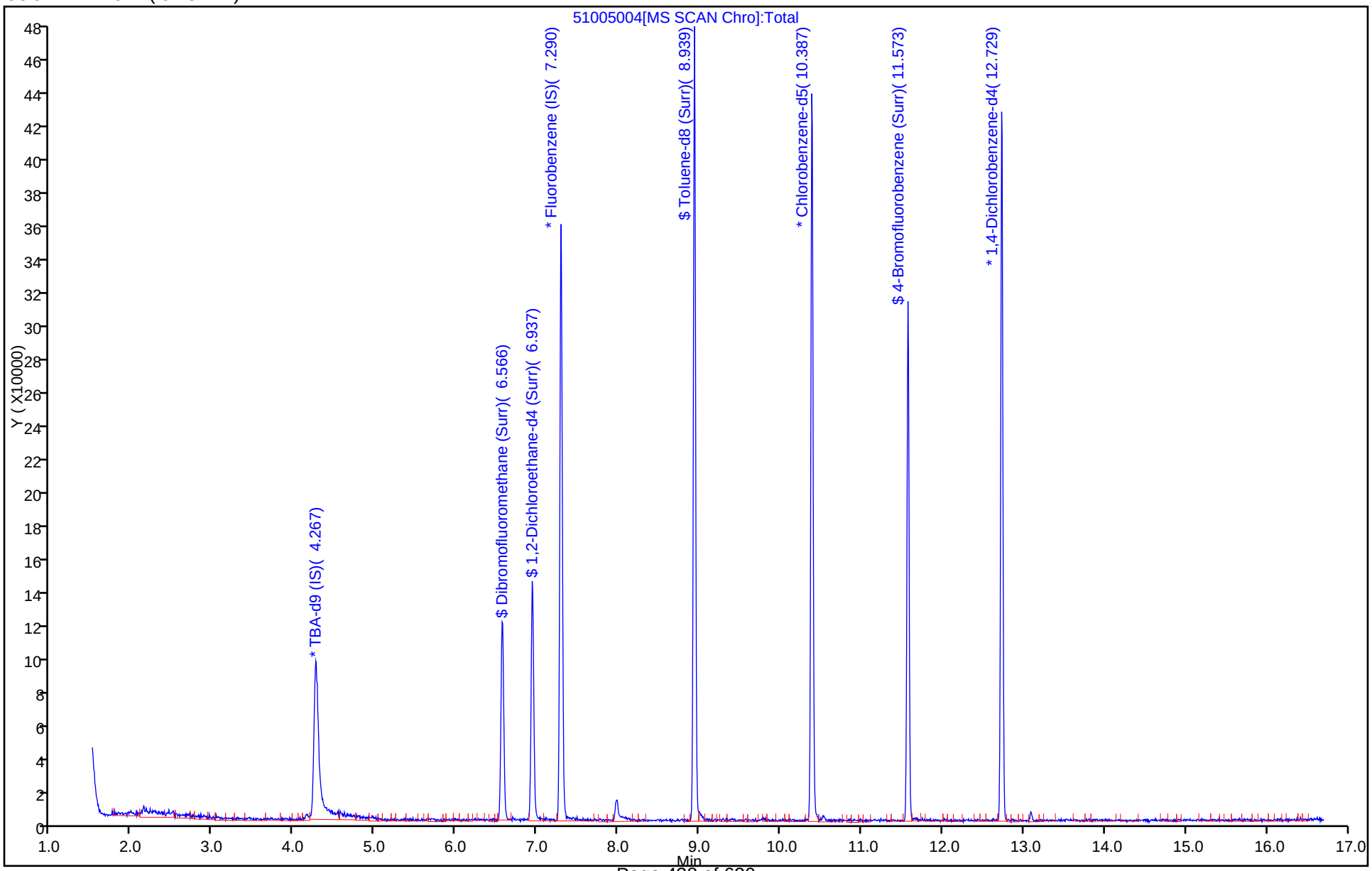
Report Date: 05-Oct-2015 12:28:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005004.D

Injection Date:	05-Oct-2015 11:57:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	MB			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_LL_CHHP5	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.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155577/12

Matrix: Water | Lab File ID: 51001012.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 16:59

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.: 155577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	9.95		1.0	0.28
75-01-4	Vinyl chloride	9.09		1.0	0.23
74-83-9	Bromomethane	10.4		1.0	0.31
75-00-3	Chloroethane	8.45		1.0	0.21
75-35-4	1,1-Dichloroethene	8.69		1.0	0.30
67-64-1	Acetone	20.3		5.0	2.5
75-15-0	Carbon disulfide	8.46		1.0	0.21
75-09-2	Methylene Chloride	8.97		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.94		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.18		1.0	0.18
75-34-3	1,1-Dichloroethane	8.89		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.08		1.0	0.24
74-97-5	Bromochloromethane	9.66		1.0	0.18
78-93-3	2-Butanone (MEK)	21.1		5.0	0.55
67-66-3	Chloroform	8.67		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.93		1.0	0.29
56-23-5	Carbon tetrachloride	8.79		1.0	0.14
71-43-2	Benzene	9.16		1.0	0.11
107-06-2	1,2-Dichloroethane	8.78		1.0	0.21
79-01-6	Trichloroethene	9.54		1.0	0.14
78-87-5	1,2-Dichloropropane	8.97		1.0	0.095
75-27-4	Bromodichloromethane	8.71		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.11		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	18.9		5.0	0.53
108-88-3	Toluene	9.90		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.57		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.66		1.0	0.20
127-18-4	Tetrachloroethene	10.1		1.0	0.15
591-78-6	2-Hexanone	18.2		5.0	0.16
124-48-1	Dibromochloromethane	9.29		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	9.76		1.0	0.18
108-90-7	Chlorobenzene	9.88		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.79		1.0	0.28
100-41-4	Ethylbenzene	10.1		1.0	0.23
1330-20-7	Xylenes, Total	20.2		3.0	0.49
100-42-5	Styrene	10.4		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155577/12

Matrix: Water | Lab File ID: 51001012.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 16:59

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.: 155577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	8.66		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.1		1.0	0.20
107-13-1	Acrylonitrile	97.7		20	0.55
123-91-1	1,4-Dioxane	247		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		64-135
2037-26-5	Toluene-d8 (Surr)	90		71-118
460-00-4	4-Bromofluorobenzene (Surr)	94		70-118
1868-53-7	Dibromofluoromethane (Surr)	88		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001012.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Oct-2015 16:59:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0008778-012
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 01-Oct-2015 17:10:57 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: fergusond Date: 01-Oct-2015 17:10:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.284	4.278	0.006	0	125325	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	367204	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.386	0.000	87	87820	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.728	0.000	92	136912	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.565	6.559	0.006	93	79791	50.0	44.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.936	0.000	0	98914	50.0	39.9	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	305761	50.0	45.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.572	0.000	90	119961	50.0	46.9	
11 Dichlorodifluoromethane	85	1.607	1.613	-0.006	99	103206	50.0	49.7	
12 Chloromethane	50	1.772	1.759	0.013	99	151484	50.0	49.7	
13 Vinyl chloride	62	1.905	1.905	0.000	98	122756	50.0	45.4	
14 Butadiene	39	1.948	1.936	0.012	99	177661	50.0	55.7	
15 Bromomethane	94	2.240	2.234	0.006	88	57051	50.0	51.9	
16 Chloroethane	64	2.410	2.386	0.024	99	68858	50.0	42.2	
17 Dichlorofluoromethane	67	2.678	2.666	0.012	97	151883	50.0	43.9	
18 Trichlorofluoromethane	101	2.690	2.702	-0.012	92	121919	50.0	47.1	
20 Ethyl ether	59	3.055	3.049	0.006	97	106422	50.0	44.4	
21 Acrolein	56	3.232	3.232	0.000	99	45556	150.0	127.5	
22 1,1-Dichloroethene	96	3.353	3.347	0.006	97	88836	50.0	43.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.420	3.414	0.006	93	98611	50.0	45.5	
24 Acetone	43	3.445	3.438	0.007	95	75206	100.0	101.5	
25 Iodomethane	142	3.542	3.542	0.000	97	149392	50.0	49.0	
26 Carbon disulfide	76	3.639	3.633	0.006	100	200810	50.0	42.3	
28 3-Chloro-1-propene	76	3.925	3.925	0.000	90	47748	50.0	41.2	
30 Methyl acetate	43	3.949	3.937	0.012	100	527768	250.0	238.4	
31 Methylene Chloride	84	4.144	4.138	0.006	98	109161	50.0	44.9	
32 2-Methyl-2-propanol	59	4.418	4.406	0.012	88	74560	500.0	528.6	
33 Acrylonitrile	53	4.527	4.521	0.006	99	524900	500.0	488.6	
34 trans-1,2-Dichloroethene	96	4.570	4.564	0.006	96	99209	50.0	44.7	
35 Methyl tert-butyl ether	73	4.582	4.576	0.006	96	235873	50.0	45.9	
36 Hexane	57	4.990	4.990	0.000	95	164862	50.0	44.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.203	5.196	0.007	96	194363	50.0	44.4	
38 Vinyl acetate	43	5.257	5.245	0.012	97	218258	50.0	66.5	
44 2,2-Dichloropropane	77	5.945	5.945	0.000	58	71144	50.0	40.6	
45 cis-1,2-Dichloroethene	96	5.951	5.951	0.000	86	107691	50.0	45.4	
46 2-Butanone (MEK)	43	5.963	5.957	0.006	75	117542	100.0	105.6	
49 Chlorobromomethane	128	6.237	6.231	0.006	93	50311	50.0	48.3	
51 Tetrahydrofuran	42	6.255	6.249	0.006	93	82800	100.0	92.7	
52 Chloroform	83	6.383	6.383	0.000	95	163796	50.0	43.3	
53 1,1,1-Trichloroethane	97	6.541	6.541	0.000	98	124794	50.0	44.7	
54 Cyclohexane	56	6.620	6.614	0.006	96	201327	50.0	43.1	
56 Carbon tetrachloride	117	6.717	6.711	0.006	96	104644	50.0	44.0	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	90	137215	50.0	44.4	
57 Isobutyl alcohol	41	6.930	6.924	0.006	86	74783	1250.0	1069.4	
58 Benzene	78	6.949	6.942	0.007	98	414890	50.0	45.8	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	137428	50.0	43.9	
62 n-Heptane	43	7.308	7.307	0.001	96	152754	50.0	45.1	
64 Trichloroethene	130	7.679	7.679	0.000	95	105692	50.0	47.7	
66 Methylcyclohexane	83	7.916	7.916	0.000	96	158200	50.0	45.3	
67 1,2-Dichloropropane	63	7.952	7.952	0.000	95	106605	50.0	44.9	
70 1,4-Dioxane	88	8.025	8.025	0.000	37	20213	1000.0	1234.0	
68 Dibromomethane	93	8.031	8.031	0.000	92	53045	50.0	44.0	
71 Dichlorobromomethane	83	8.232	8.232	0.000	97	103869	50.0	43.5	
74 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	91	113361	50.0	40.5	
75 4-Methyl-2-pentanone (MIBK	43	8.828	8.822	0.006	99	204889	100.0	94.7	
76 Toluene	91	9.005	9.005	0.000	98	430415	50.0	49.5	
77 trans-1,3-Dichloropropene	75	9.248	9.254	-0.006	98	97194	50.0	42.8	
78 Ethyl methacrylate	69	9.309	9.309	0.000	94	102128	50.0	46.5	
79 1,1,2-Trichloroethane	97	9.449	9.449	0.000	92	79853	50.0	48.3	
80 Tetrachloroethene	164	9.516	9.516	0.000	97	85592	50.0	50.7	
81 1,3-Dichloropropane	76	9.601	9.601	0.000	99	143616	50.0	46.8	
82 2-Hexanone	43	9.656	9.656	0.000	99	142263	100.0	91.1	
84 Chlorodibromomethane	129	9.814	9.814	0.000	91	66511	50.0	46.5	
85 Ethylene Dibromide	107	9.930	9.929	0.001	99	77763	50.0	48.8	
86 3-Chlorobenzotrifluoride	180	10.386	10.392	-0.006	83	142182	50.0	50.9	
87 Chlorobenzene	112	10.416	10.416	0.000	95	276654	50.0	49.4	
88 4-Chlorobenzotrifluoride	180	10.477	10.477	0.000	95	133515	50.0	50.5	
89 1,1,1,2-Tetrachloroethane	131	10.507	10.507	0.000	91	89318	50.0	48.9	
90 Ethylbenzene	106	10.514	10.513	0.001	98	150241	50.0	50.6	
91 m-Xylene & p-Xylene	106	10.647	10.647	0.000	0	185579	50.0	51.0	
92 o-Xylene	106	11.031	11.031	0.000	97	172278	50.0	49.8	
93 Styrene	104	11.049	11.049	0.000	96	298206	50.0	52.1	
94 Bromoform	173	11.231	11.231	0.000	96	35361	50.0	43.3	
96 2-Chlorobenzotrifluoride	180	11.298	11.298	0.000	96	138204	50.0	50.3	
97 Isopropylbenzene	105	11.396	11.396	0.000	96	438892	50.0	51.8	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.706	0.000	79	112983	50.0	50.6	
100 Bromobenzene	156	11.706	11.712	-0.006	92	117186	50.0	49.9	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.742	0.000	70	11864	50.0	14.0	
101 1,2,3-Trichloropropane	110	11.767	11.761	0.006	87	36904	50.0	47.6	
103 N-Propylbenzene	120	11.809	11.809	0.000	99	126181	50.0	46.9	
104 2-Chlorotoluene	126	11.901	11.900	0.001	96	112185	50.0	49.1	
105 3-Chlorotoluene	126	11.961	11.961	0.000	94	118775	50.0	50.5	
106 1,3,5-Trimethylbenzene	105	11.992	11.998	-0.006	96	367402	50.0	48.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.022	12.022	0.000	98	126261	50.0	50.2	
108 tert-Butylbenzene	119	12.308	12.308	0.000	95	303456	50.0	49.1	
110 1,2,4-Trimethylbenzene	105	12.369	12.369	0.000	97	374896	50.0	49.2	
111 1,2-dichloro-4-(trifluorom	214	12.405	12.411	-0.006	96	96097	50.0	45.3	
112 sec-Butylbenzene	105	12.533	12.533	0.000	94	421090	50.0	48.3	
113 1,3-Dichlorobenzene	146	12.649	12.649	0.000	98	222398	50.0	53.1	
114 4-Isopropyltoluene	119	12.685	12.691	-0.006	97	365848	50.0	49.6	
115 1,4-Dichlorobenzene	146	12.752	12.752	0.000	96	225389	50.0	51.8	
116 2,4-Dichloro-1-(triflourom	214	12.777	12.776	0.001	95	94951	50.0	48.3	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.825	-0.006	0	97350	50.0	45.8	
120 n-Butylbenzene	91	13.099	13.099	0.000	98	291931	50.0	46.2	
121 1,2-Dichlorobenzene	146	13.111	13.111	0.000	98	206864	50.0	52.9	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.902	0.000	75	15138	50.0	47.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.042	14.042	0.000	0	353443	150.0	158.2	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.462	0.000	0	228443	100.0	107.3	
126 1,2,4-Trichlorobenzene	180	14.723	14.723	0.000	94	80423	50.0	52.9	
127 Hexachlorobutadiene	225	14.869	14.869	0.000	98	36644	50.0	50.0	
128 Naphthalene	128	14.991	14.991	0.000	97	236990	50.0	60.6	
129 1,2,3-Trichlorobenzene	180	15.210	15.216	-0.006	96	67630	50.0	54.9	
131 2,4,5-Trichlorotoluene	159	15.989	15.995	-0.006	0	22959	50.0	51.7	
130 2,3,6-Trichlorotoluene	159	16.092	16.086	0.006	96	23360	50.0	57.0	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	100.8	
S 134 1,2-Dichloroethene, Total	96				0		100.0	90.1	
S 135 1,3-Dichloropropene, Total	1				0		100.0	83.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL		
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL		
VOA8260VOA2ND_00144	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	

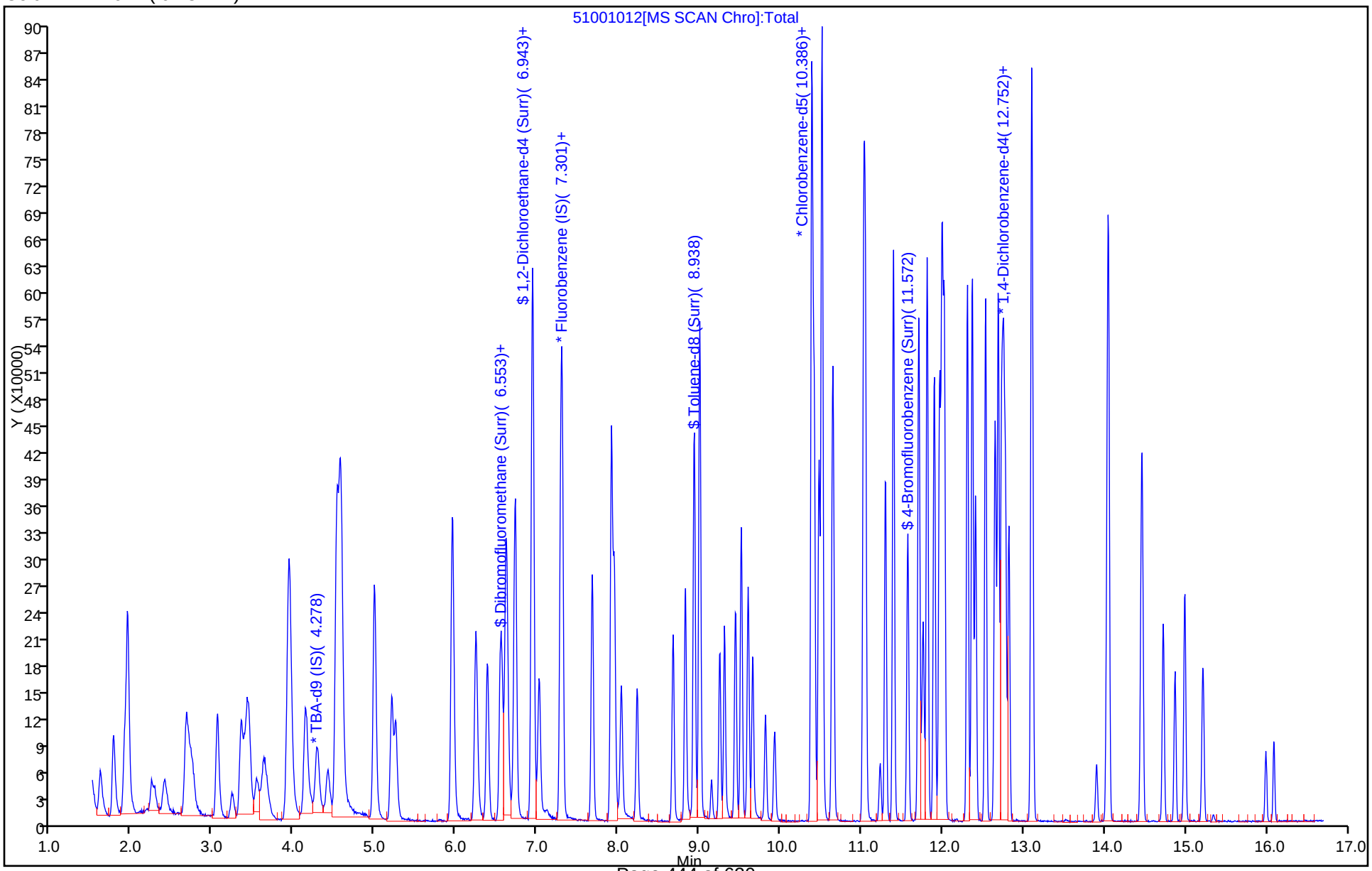
Report Date: 01-Oct-2015 17:10:58 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001012.D

Injection Date:	01-Oct-2015 16:59:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	LCS			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVOA_LL_CHHP5	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.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155711/9

Matrix: Water | Lab File ID: 51002009.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2015 15:09

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.: 155711 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	11.0		1.0	0.28
75-01-4	Vinyl chloride	10.1		1.0	0.23
74-83-9	Bromomethane	10.7		1.0	0.31
75-00-3	Chloroethane	8.90		1.0	0.21
75-35-4	1,1-Dichloroethene	9.34		1.0	0.30
67-64-1	Acetone	26.2		5.0	2.5
75-15-0	Carbon disulfide	8.91		1.0	0.21
75-09-2	Methylene Chloride	9.12		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.62		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.79		1.0	0.18
75-34-3	1,1-Dichloroethane	9.07		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.95		1.0	0.24
74-97-5	Bromochloromethane	9.97		1.0	0.18
78-93-3	2-Butanone (MEK)	22.8		5.0	0.55
67-66-3	Chloroform	9.38		1.0	0.17
71-55-6	1,1,1-Trichloroethane	9.10		1.0	0.29
56-23-5	Carbon tetrachloride	9.51		1.0	0.14
71-43-2	Benzene	9.47		1.0	0.11
107-06-2	1,2-Dichloroethane	8.80		1.0	0.21
79-01-6	Trichloroethene	10.2		1.0	0.14
78-87-5	1,2-Dichloropropane	9.34		1.0	0.095
75-27-4	Bromodichloromethane	8.98		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.29		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	18.6		5.0	0.53
108-88-3	Toluene	10.4		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.43		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.2		1.0	0.20
127-18-4	Tetrachloroethene	10.9		1.0	0.15
591-78-6	2-Hexanone	19.6		5.0	0.16
124-48-1	Dibromochloromethane	9.69		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.1		1.0	0.18
108-90-7	Chlorobenzene	10.2		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	10.5		1.0	0.28
100-41-4	Ethylbenzene	10.3		1.0	0.23
1330-20-7	Xylenes, Total	21.0		3.0	0.49
100-42-5	Styrene	11.0		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155711/9

Matrix: Water | Lab File ID: 51002009.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2015 15:09

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.: 155711 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	9.46		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.98		1.0	0.20
107-13-1	Acrylonitrile	97.3		20	0.55
123-91-1	1,4-Dioxane	195	J	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		64-135
2037-26-5	Toluene-d8 (Surr)	100		71-118
460-00-4	4-Bromofluorobenzene (Surr)	96		70-118
1868-53-7	Dibromofluoromethane (Surr)	93		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002009.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Oct-2015 15:09:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0008799-009
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 02-Oct-2015 15:23:59 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: fergusond Date: 02-Oct-2015 15:23:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.280	4.268	0.012	0	114288	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.291	7.285	0.006	99	353245	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.388	0.000	87	83323	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.730	0.000	95	130360	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.561	6.561	0.000	94	80288	50.0	46.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.932	6.932	0.000	0	102113	50.0	42.9	
$ 7 Toluene-d8 (Surr)	98	8.934	8.934	0.000	94	322799	50.0	50.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.568	11.568	0.000	90	116046	50.0	47.9	
11 Dichlorodifluoromethane	85	1.603	1.597	0.006	99	113000	50.0	56.6	
12 Chloromethane	50	1.767	1.767	0.000	99	160946	50.0	54.9	
13 Vinyl chloride	62	1.907	1.907	0.000	99	130919	50.0	50.4	
14 Butadiene	39	1.944	1.938	0.006	96	176329	50.0	57.4	
15 Bromomethane	94	2.248	2.236	0.012	91	56674	50.0	53.6	
16 Chloroethane	64	2.412	2.388	0.024	98	69747	50.0	44.5	
17 Dichlorofluoromethane	67	2.674	2.662	0.012	98	164824	50.0	49.5	
18 Trichlorofluoromethane	101	2.692	2.704	-0.012	97	137853	50.0	55.4	
20 Ethyl ether	59	3.045	3.051	-0.006	95	98024	50.0	42.5	
21 Acrolein	56	3.233	3.215	0.018	97	43105	150.0	125.4	
22 1,1-Dichloroethene	96	3.343	3.349	-0.006	94	91840	50.0	46.7	
23 1,1,2-Trichloro-1,2,2-trif	101	3.428	3.410	0.018	91	100312	50.0	48.1	
24 Acetone	43	3.440	3.440	0.000	99	93281	100.0	130.9	
25 Iodomethane	142	3.544	3.532	0.012	98	153507	50.0	52.4	
26 Carbon disulfide	76	3.629	3.629	0.000	100	203431	50.0	44.5	
28 3-Chloro-1-propene	76	3.921	3.921	0.000	90	48759	50.0	43.8	
30 Methyl acetate	43	3.945	3.933	0.012	100	525546	250.0	246.8	
31 Methylene Chloride	84	4.140	4.128	0.012	98	106548	50.0	45.6	
32 2-Methyl-2-propanol	59	4.414	4.401	0.013	86	63450	500.0	493.3	
33 Acrylonitrile	53	4.523	4.517	0.006	98	502600	500.0	486.4	
34 trans-1,2-Dichloroethene	96	4.566	4.560	0.006	96	102784	50.0	48.1	
35 Methyl tert-butyl ether	73	4.584	4.572	0.012	95	217195	50.0	43.9	
36 Hexane	57	4.992	4.985	0.007	96	171045	50.0	47.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.198	5.198	0.000	97	190758	50.0	45.3	
38 Vinyl acetate	43	5.253	5.247	0.006	97	165695	50.0	52.5	
44 2,2-Dichloropropane	77	5.953	5.941	0.012	58	69891	50.0	41.4	
45 cis-1,2-Dichloroethene	96	5.947	5.947	0.000	86	102188	50.0	44.8	
46 2-Butanone (MEK)	43	5.959	5.953	0.006	81	122276	100.0	114.2	
49 Chlorobromomethane	128	6.233	6.233	0.000	94	49963	50.0	49.9	
51 Tetrahydrofuran	42	6.251	6.251	0.000	92	72680	100.0	84.6	
52 Chloroform	83	6.379	6.379	0.000	96	170486	50.0	46.9	
53 1,1,1-Trichloroethane	97	6.543	6.537	0.006	96	122370	50.0	45.5	
54 Cyclohexane	56	6.616	6.616	0.000	97	206962	50.0	46.0	
56 Carbon tetrachloride	117	6.719	6.713	0.006	96	108822	50.0	47.5	
55 1,1-Dichloropropene	75	6.731	6.725	0.006	91	136531	50.0	45.9	
57 Isobutyl alcohol	41	6.926	6.926	0.000	84	82847	1250.0	1231.6	
58 Benzene	78	6.944	6.938	0.006	98	412368	50.0	47.3	
59 1,2-Dichloroethane	62	7.023	7.011	0.012	96	132553	50.0	44.0	
62 n-Heptane	43	7.309	7.303	0.006	97	159855	50.0	49.1	
64 Trichloroethene	130	7.680	7.674	0.006	97	108664	50.0	51.0	
66 Methylcyclohexane	83	7.912	7.912	0.000	96	159735	50.0	47.6	
67 1,2-Dichloropropane	63	7.948	7.948	0.000	96	106728	50.0	46.7	
68 Dibromomethane	93	8.033	8.033	0.000	95	53601	50.0	46.2	
70 1,4-Dioxane	88	8.033	8.033	0.000	37	15393	1000.0	976.9	
71 Dichlorobromomethane	83	8.228	8.228	0.000	98	103036	50.0	44.9	
74 cis-1,3-Dichloropropene	75	8.672	8.672	0.000	90	111493	50.0	41.5	
75 4-Methyl-2-pentanone (MIBK	43	8.824	8.824	0.000	99	191034	100.0	93.0	
76 Toluene	91	9.007	9.001	0.006	98	428018	50.0	51.9	
77 trans-1,3-Dichloropropene	75	9.250	9.250	0.000	99	90693	50.0	42.1	
78 Ethyl methacrylate	69	9.311	9.311	0.000	96	91931	50.0	44.2	
79 1,1,2-Trichloroethane	97	9.445	9.445	0.000	93	79796	50.0	50.9	
80 Tetrachloroethene	164	9.518	9.518	0.000	98	87545	50.0	54.7	
81 1,3-Dichloropropane	76	9.603	9.603	0.000	98	133776	50.0	45.9	
82 2-Hexanone	43	9.658	9.658	0.000	98	145564	100.0	98.2	
84 Chlorodibromomethane	129	9.816	9.810	0.006	91	65794	50.0	48.4	
85 Ethylene Dibromide	107	9.925	9.925	0.000	98	76726	50.0	50.7	
86 3-Chlorobenzotrifluoride	180	10.388	10.388	0.000	86	141076	50.0	53.2	
87 Chlorobenzene	112	10.418	10.412	0.006	95	271085	50.0	51.0	
88 4-Chlorobenzotrifluoride	180	10.473	10.473	0.000	95	130774	50.0	52.2	
89 1,1,1,2-Tetrachloroethane	131	10.509	10.509	0.000	92	91196	50.0	52.7	
90 Ethylbenzene	106	10.515	10.515	0.000	98	144889	50.0	51.5	
91 m-Xylene & p-Xylene	106	10.643	10.643	0.000	0	180744	50.0	52.4	
92 o-Xylene	106	11.026	11.026	0.000	95	172447	50.0	52.6	
93 Styrene	104	11.045	11.051	-0.006	95	298960	50.0	55.0	
94 Bromoform	173	11.227	11.233	-0.006	97	36671	50.0	47.3	
96 2-Chlorobenzotrifluoride	180	11.294	11.294	0.000	97	138939	50.0	53.3	
97 Isopropylbenzene	105	11.397	11.397	0.000	96	435701	50.0	54.2	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.708	0.000	79	105629	50.0	49.9	
100 Bromobenzene	156	11.708	11.708	0.000	93	109159	50.0	48.8	
102 trans-1,4-Dichloro-2-buten	53	11.738	11.744	-0.006	75	12519	50.0	15.5	
101 1,2,3-Trichloropropane	110	11.763	11.762	0.000	87	35663	50.0	48.3	
103 N-Propylbenzene	120	11.811	11.811	0.000	99	122878	50.0	48.0	
104 2-Chlorotoluene	126	11.896	11.896	0.000	97	114715	50.0	52.7	
105 3-Chlorotoluene	126	11.963	11.963	0.000	95	115318	50.0	51.5	
106 1,3,5-Trimethylbenzene	105	11.994	11.994	0.000	94	370410	50.0	51.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.024	12.024	0.000	97	122541	50.0	51.1	
108 tert-Butylbenzene	119	12.310	12.310	0.000	95	292415	50.0	49.7	
110 1,2,4-Trimethylbenzene	105	12.365	12.365	0.000	97	362291	50.0	50.0	
111 1,2-dichloro-4-(trifluorom	214	12.407	12.413	-0.006	98	95374	50.0	47.2	
112 sec-Butylbenzene	105	12.529	12.529	0.000	94	425870	50.0	51.3	
113 1,3-Dichlorobenzene	146	12.651	12.651	0.000	98	213074	50.0	53.5	
114 4-Isopropyltoluene	119	12.687	12.687	0.000	97	360273	50.0	51.3	
115 1,4-Dichlorobenzene	146	12.754	12.754	0.000	96	220245	50.0	53.1	
116 2,4-Dichloro-1-(triflourom	214	12.778	12.778	0.000	94	87830	50.0	46.9	
118 2,5-Dichlorobenzotrifluori	214	12.821	12.821	0.000	0	102349	50.0	50.6	
120 n-Butylbenzene	91	13.095	13.095	0.000	98	279645	50.0	46.5	
121 1,2-Dichlorobenzene	146	13.107	13.107	0.000	97	198236	50.0	53.2	
122 1,2-Dibromo-3-Chloropropan	75	13.898	13.898	0.000	75	14865	50.0	48.6	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.044	14.044	0.000	0	337863	150.0	158.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.457	14.464	-0.007	0	213095	100.0	105.1	
126 1,2,4-Trichlorobenzene	180	14.725	14.725	0.000	95	75472	50.0	52.1	
127 Hexachlorobutadiene	225	14.871	14.871	0.000	97	36679	50.0	52.6	
128 Naphthalene	128	14.987	14.993	-0.006	97	201125	50.0	54.0	
129 1,2,3-Trichlorobenzene	180	15.212	15.212	0.000	95	64105	50.0	54.7	
131 2,4,5-Trichlorotoluene	159	15.991	15.990	0.000	0	19703	50.0	46.6	
130 2,3,6-Trichlorotoluene	159	16.088	16.088	0.000	97	19613	50.0	50.3	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	92.9	
S 133 Xylenes, Total	106				0		100.0	104.9	
S 135 1,3-Dichloropropene, Total	1				0		100.0	83.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
VOA8260VOA2ND_00146	Amount Added:	2.00	Units: uL		
voaWKetmix2nd_00002	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	

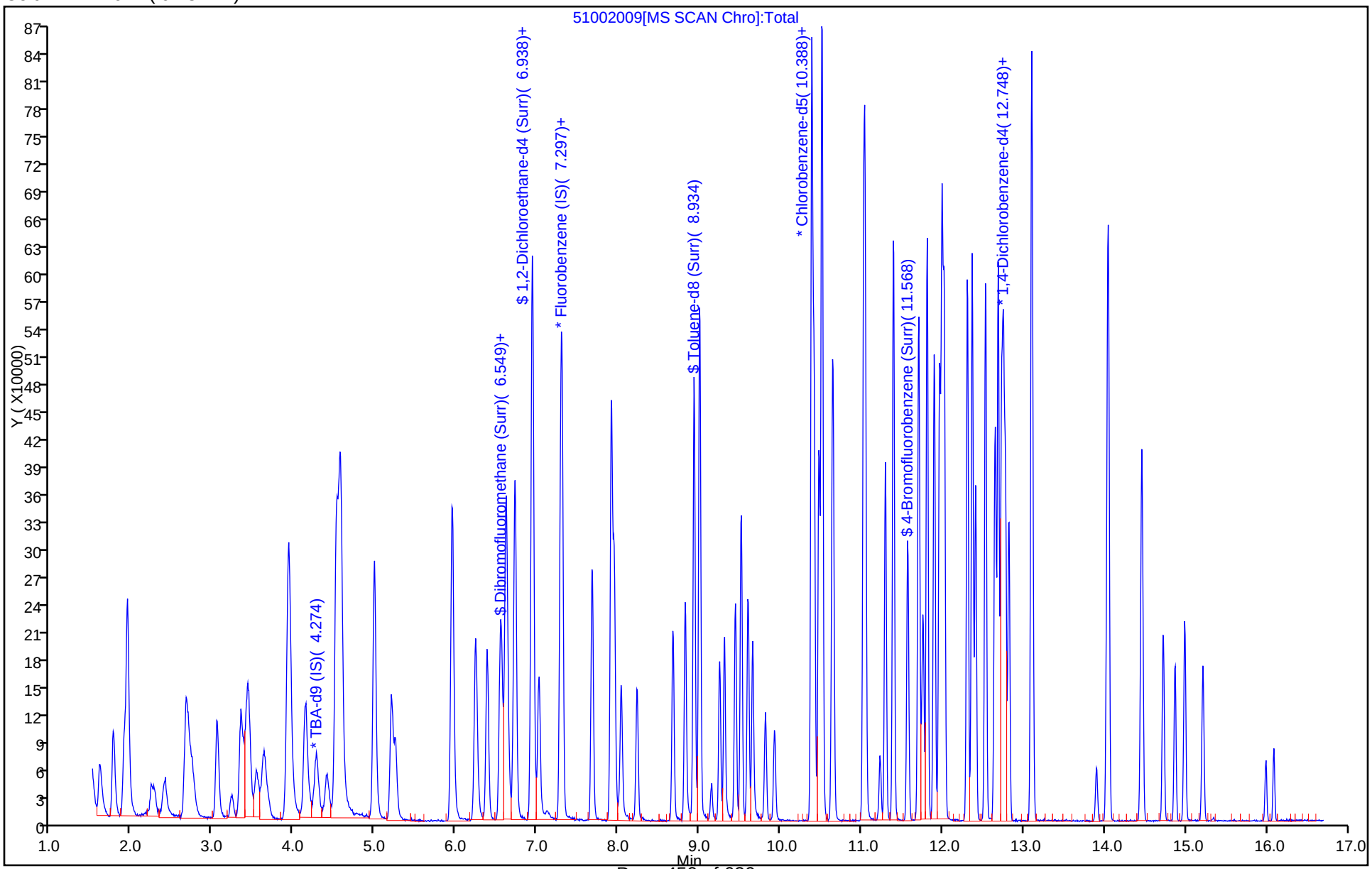
Report Date: 02-Oct-2015 15:23:59 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151002-8799.b\51002009.D

Injection Date:	02-Oct-2015 15:09:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	LCS			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_LL_CHHP5	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.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155884/7

Matrix: Water | Lab File ID: 51005007.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/05/2015 13:34

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.: 155884 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	10.3		1.0	0.28
75-01-4	Vinyl chloride	9.58		1.0	0.23
74-83-9	Bromomethane	9.95		1.0	0.31
75-00-3	Chloroethane	8.88		1.0	0.21
75-35-4	1,1-Dichloroethene	8.87		1.0	0.30
67-64-1	Acetone	17.7		5.0	2.5
75-15-0	Carbon disulfide	8.59		1.0	0.21
75-09-2	Methylene Chloride	8.64		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.88		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.16		1.0	0.18
75-34-3	1,1-Dichloroethane	8.25		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.60		1.0	0.24
74-97-5	Bromochloromethane	9.33		1.0	0.18
78-93-3	2-Butanone (MEK)	17.9		5.0	0.55
67-66-3	Chloroform	8.43		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.58		1.0	0.29
56-23-5	Carbon tetrachloride	9.51		1.0	0.14
71-43-2	Benzene	8.97		1.0	0.11
107-06-2	1,2-Dichloroethane	8.12		1.0	0.21
79-01-6	Trichloroethene	9.53		1.0	0.14
78-87-5	1,2-Dichloropropane	8.90		1.0	0.095
75-27-4	Bromodichloromethane	8.82		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.07		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	16.0		5.0	0.53
108-88-3	Toluene	9.74		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.30		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.41		1.0	0.20
127-18-4	Tetrachloroethene	10.3		1.0	0.15
591-78-6	2-Hexanone	15.4		5.0	0.16
124-48-1	Dibromochloromethane	9.52		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	9.34		1.0	0.18
108-90-7	Chlorobenzene	9.61		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.60		1.0	0.28
100-41-4	Ethylbenzene	9.77		1.0	0.23
1330-20-7	Xylenes, Total	19.6		3.0	0.49
100-42-5	Styrene	10.1		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155884/7

Matrix: Water | Lab File ID: 51005007.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/05/2015 13:34

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.: 155884 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	9.47		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.54		1.0	0.20
107-13-1	Acrylonitrile	90.6		20	0.55
123-91-1	1,4-Dioxane	213		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		64-135
2037-26-5	Toluene-d8 (Surr)	99		71-118
460-00-4	4-Bromofluorobenzene (Surr)	90		70-118
1868-53-7	Dibromofluoromethane (Surr)	91		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005007.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 05-Oct-2015 13:34:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0008828-007
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 05-Oct-2015 13:53:57 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: fergusond Date: 05-Oct-2015 13:53:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.284	4.281	0.003	0	119053	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.292	-0.003	98	418221	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.388	-0.002	87	101020	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.734	12.730	0.004	93	143991	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.571	6.568	0.003	93	93297	50.0	45.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.942	6.933	0.009	0	116342	50.0	41.2	
$ 7 Toluene-d8 (Surr)	98	8.938	8.940	-0.002	94	385978	50.0	49.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.575	-0.003	89	132537	50.0	45.1	
11 Dichlorodifluoromethane	85	1.613	1.604	0.009	99	117806	50.0	49.9	
12 Chloromethane	50	1.771	1.774	-0.003	99	178255	50.0	51.4	
13 Vinyl chloride	62	1.911	1.908	0.003	98	147354	50.0	47.9	
14 Butadiene	39	1.948	1.951	-0.003	97	183016	50.0	50.4	
15 Bromomethane	94	2.246	2.249	-0.003	91	62303	50.0	49.8	
16 Chloroethane	64	2.404	2.413	-0.009	98	82442	50.0	44.4	
17 Dichlorofluoromethane	67	2.672	2.675	-0.003	98	162741	50.0	41.3	
18 Trichlorofluoromethane	101	2.714	2.699	0.015	98	141647	50.0	48.1	
20 Ethyl ether	59	3.061	3.046	0.015	97	108409	50.0	39.7	
21 Acrolein	56	3.237	3.222	0.015	99	46661	150.0	114.7	
22 1,1-Dichloroethene	96	3.353	3.344	0.009	94	103320	50.0	44.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.432	3.423	0.009	93	113333	50.0	45.9	
24 Acetone	43	3.450	3.441	0.009	97	74588	100.0	88.4	
25 Iodomethane	142	3.542	3.538	0.004	98	171176	50.0	49.3	
26 Carbon disulfide	76	3.663	3.636	0.027	100	232323	50.0	43.0	
28 3-Chloro-1-propene	76	3.931	3.922	0.009	89	55328	50.0	41.9	
30 Methyl acetate	43	3.949	3.940	0.009	100	576915	250.0	228.8	
31 Methylene Chloride	84	4.144	4.141	0.003	97	120329	50.0	43.2	
32 2-Methyl-2-propanol	59	4.418	4.402	0.016	87	74478	500.0	555.8	
33 Acrylonitrile	53	4.527	4.524	0.003	98	554463	500.0	453.2	
34 trans-1,2-Dichloroethene	96	4.576	4.566	0.010	96	112265	50.0	44.4	
35 Methyl tert-butyl ether	73	4.588	4.579	0.009	95	238697	50.0	40.8	
36 Hexane	57	4.996	4.992	0.004	95	191832	50.0	45.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.209	5.199	0.009	96	205598	50.0	41.3	
38 Vinyl acetate	43	5.257	5.254	0.003	97	193785	50.0	51.8	
44 2,2-Dichloropropane	77	5.951	5.947	0.004	56	77308	50.0	38.7	
45 cis-1,2-Dichloroethene	96	5.957	5.954	0.003	83	116187	50.0	43.0	
46 2-Butanone (MEK)	43	5.963	5.966	-0.003	71	113349	100.0	89.4	
49 Chlorobromomethane	128	6.243	6.233	0.010	93	55371	50.0	46.7	
51 Tetrahydrofuran	42	6.261	6.252	0.009	93	81577	100.0	80.2	
52 Chloroform	83	6.383	6.379	0.004	95	181422	50.0	42.1	
53 1,1,1-Trichloroethane	97	6.547	6.550	-0.003	96	136578	50.0	42.9	
54 Cyclohexane	56	6.620	6.617	0.003	96	229493	50.0	43.1	
56 Carbon tetrachloride	117	6.717	6.720	-0.003	92	128822	50.0	47.5	
55 1,1-Dichloropropene	75	6.735	6.732	0.003	90	148621	50.0	42.2	
57 Isobutyl alcohol	41	6.930	6.927	0.003	91	94662	1250.0	1188.6	
58 Benzene	78	6.948	6.945	0.003	97	462743	50.0	44.9	
59 1,2-Dichloroethane	62	7.021	7.024	-0.003	96	144874	50.0	40.6	
62 n-Heptane	43	7.313	7.310	0.003	96	179603	50.0	46.6	
64 Trichloroethene	130	7.678	7.675	0.003	96	120243	50.0	47.7	
66 Methylcyclohexane	83	7.922	7.912	0.010	95	178786	50.0	45.0	
67 1,2-Dichloropropane	63	7.952	7.949	0.003	96	120428	50.0	44.5	
68 Dibromomethane	93	8.037	8.034	0.003	93	59734	50.0	43.5	
70 1,4-Dioxane	88	8.037	8.034	0.003	39	19894	1000.0	1066.4	M
71 Dichlorobromomethane	83	8.232	8.235	-0.003	97	119896	50.0	44.1	
74 cis-1,3-Dichloropropene	75	8.676	8.679	-0.003	91	128453	50.0	40.3	
75 4-Methyl-2-pentanone (MIBK	43	8.828	8.825	0.003	99	199308	100.0	80.1	
76 Toluene	91	9.005	9.007	-0.002	98	487190	50.0	48.7	
77 trans-1,3-Dichloropropene	75	9.254	9.257	-0.003	98	108264	50.0	41.5	
78 Ethyl methacrylate	69	9.315	9.312	0.003	95	106357	50.0	42.1	
79 1,1,2-Trichloroethane	97	9.449	9.445	0.004	93	89519	50.0	47.1	
80 Tetrachloroethene	164	9.516	9.518	-0.002	97	100343	50.0	51.7	
81 1,3-Dichloropropane	76	9.607	9.604	0.003	99	153736	50.0	43.5	
82 2-Hexanone	43	9.662	9.658	0.004	99	137920	100.0	76.8	
84 Chlorodibromomethane	129	9.820	9.823	-0.003	90	78383	50.0	47.6	
85 Ethylene Dibromide	107	9.929	9.932	-0.003	98	85584	50.0	46.7	
86 3-Chlorobenzotrifluoride	180	10.392	10.394	-0.002	85	167479	50.0	52.1	
87 Chlorobenzene	112	10.416	10.419	-0.003	96	309483	50.0	48.1	
88 4-Chlorobenzotrifluoride	180	10.477	10.480	-0.003	95	161773	50.0	53.2	
89 1,1,1,2-Tetrachloroethane	131	10.513	10.510	0.003	93	100713	50.0	48.0	
90 Ethylbenzene	106	10.519	10.522	-0.003	99	166777	50.0	48.9	
91 m-Xylene & p-Xylene	106	10.647	10.650	-0.003	0	208771	50.0	49.9	
92 o-Xylene	106	11.030	11.033	-0.003	96	191252	50.0	48.1	
93 Styrene	104	11.049	11.051	-0.002	96	334388	50.0	50.7	
94 Bromoform	173	11.231	11.228	0.003	97	44497	50.0	47.3	
96 2-Chlorobenzotrifluoride	180	11.298	11.301	-0.003	97	165615	50.0	52.4	
97 Isopropylbenzene	105	11.395	11.398	-0.003	96	486767	50.0	50.0	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.708	-0.002	79	122418	50.0	47.7	
100 Bromobenzene	156	11.712	11.708	0.004	93	125955	50.0	51.0	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.745	-0.003	80	22629	50.0	25.3	
101 1,2,3-Trichloropropane	110	11.766	11.769	-0.003	88	41996	50.0	51.5	
103 N-Propylbenzene	120	11.815	11.812	0.003	99	143838	50.0	50.8	
104 2-Chlorotoluene	126	11.900	11.903	-0.003	97	123608	50.0	51.4	
105 3-Chlorotoluene	126	11.967	11.970	-0.003	95	130477	50.0	52.8	
106 1,3,5-Trimethylbenzene	105	11.998	11.994	0.004	97	413977	50.0	51.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.022	12.025	-0.003	98	141145	50.0	53.3	
108 tert-Butylbenzene	119	12.308	12.311	-0.003	94	317382	50.0	48.8	
110 1,2,4-Trimethylbenzene	105	12.369	12.372	-0.003	97	390207	50.0	48.7	
111 1,2-dichloro-4-(trifluorom	214	12.411	12.408	0.003	98	112557	50.0	50.4	
112 sec-Butylbenzene	105	12.533	12.536	-0.003	94	456247	50.0	49.7	
113 1,3-Dichlorobenzene	146	12.649	12.651	-0.002	99	226394	50.0	51.4	
114 4-Isopropyltoluene	119	12.685	12.688	-0.003	97	392773	50.0	50.6	
115 1,4-Dichlorobenzene	146	12.752	12.755	-0.003	96	229721	50.0	50.2	
116 2,4-Dichloro-1-(triflourom	214	12.776	12.779	-0.003	97	105558	50.0	51.0	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.822	-0.003	0	113448	50.0	50.7	
120 n-Butylbenzene	91	13.099	13.102	-0.003	98	308800	50.0	46.5	
121 1,2-Dichlorobenzene	146	13.111	13.108	0.003	98	214505	50.0	52.2	
122 1,2-Dibromo-3-Chloropropan	75	13.908	13.905	0.003	81	15767	50.0	46.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.045	0.003	0	374541	150.0	159.4	
125 2,3- & 3,4- Dichlorotoluen	125	14.461	14.464	-0.003	0	242034	100.0	108.1	
126 1,2,4-Trichlorobenzene	180	14.729	14.726	0.003	95	83582	50.0	52.2	
127 Hexachlorobutadiene	225	14.869	14.872	-0.003	96	41753	50.0	54.2	
128 Naphthalene	128	14.991	14.994	-0.003	97	218454	50.0	53.1	
129 1,2,3-Trichlorobenzene	180	15.216	15.219	-0.003	96	67269	50.0	51.9	
131 2,4,5-Trichlorotoluene	159	15.988	15.991	-0.003	0	23181	50.0	49.6	
130 2,3,6-Trichlorotoluene	159	16.092	16.095	-0.003	96	23574	50.0	54.7	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	98.0	
S 134 1,2-Dichloroethene, Total	96				0		100.0	87.4	
S 135 1,3-Dichloropropene, Total	1				0		100.0	81.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOA2ND_00146	Amount Added:	2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

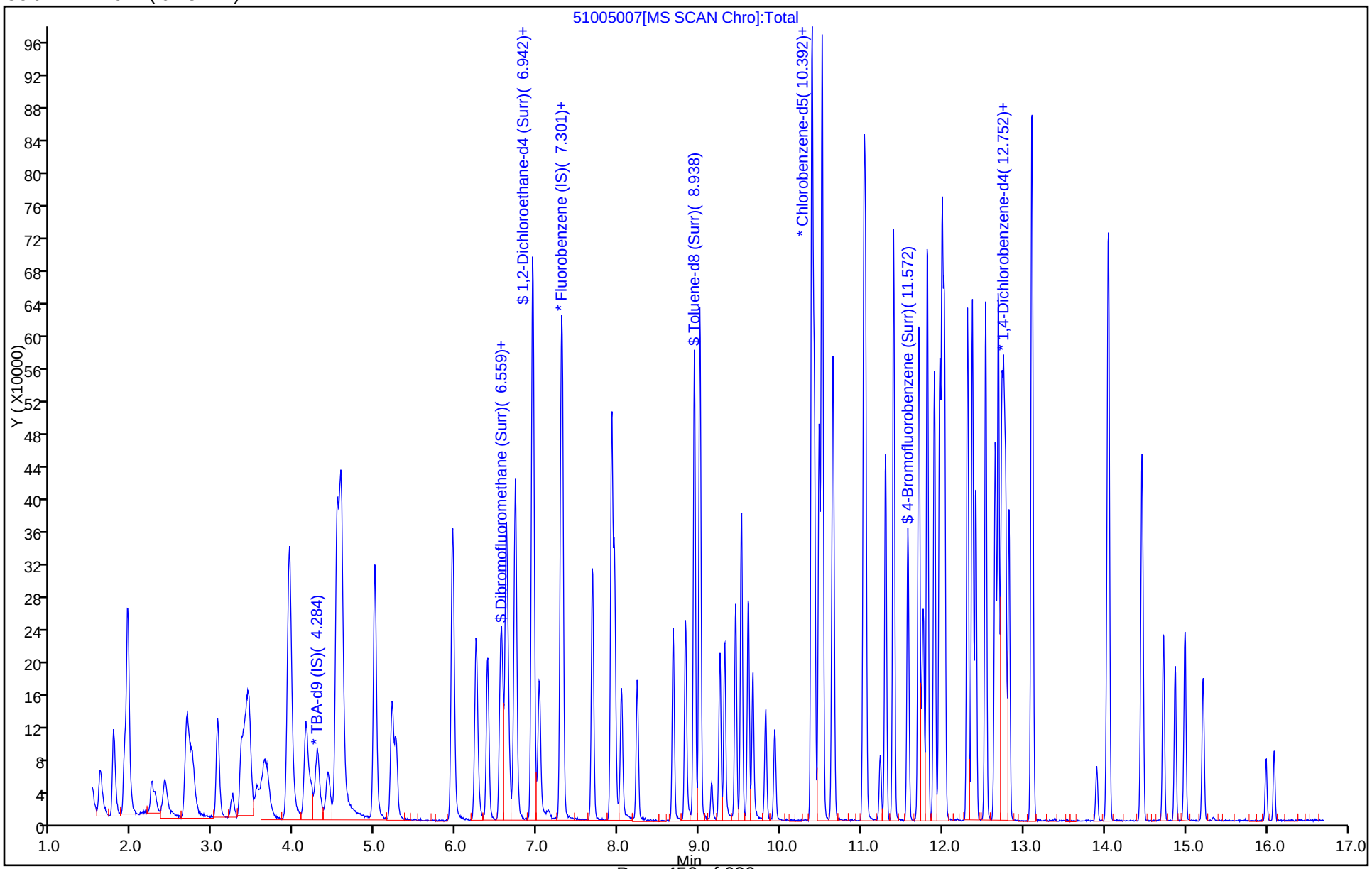
Report Date: 05-Oct-2015 13:53:58 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005007.D

Injection Date:	05-Oct-2015 13:34:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	LCS			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

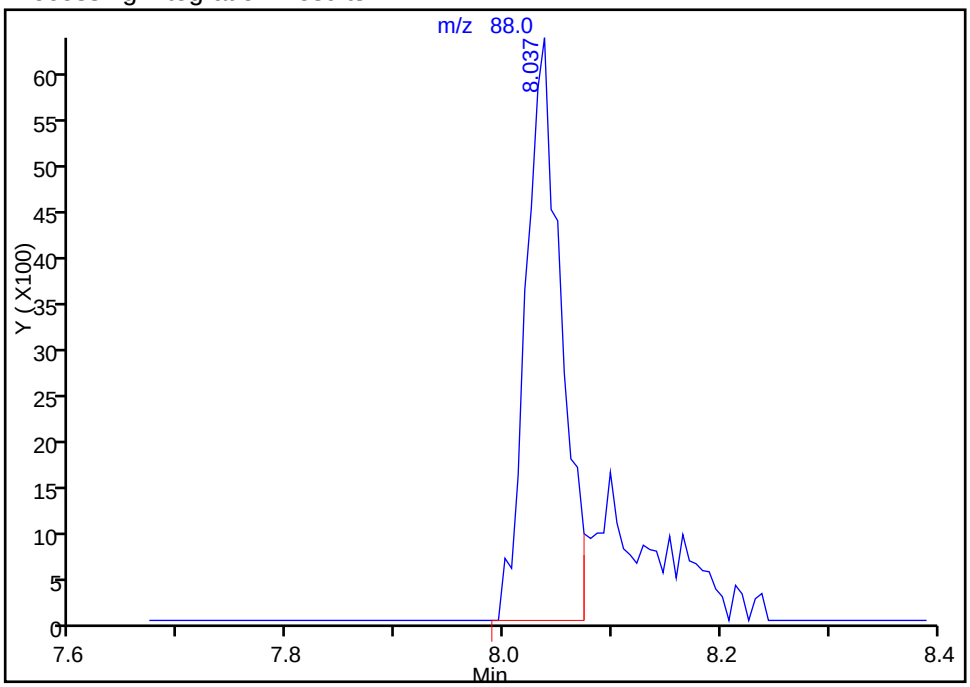
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005007.D
Injection Date: 05-Oct-2015 13:34:30 Instrument ID: CHHP5
Lims ID: LCS
Client ID:
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

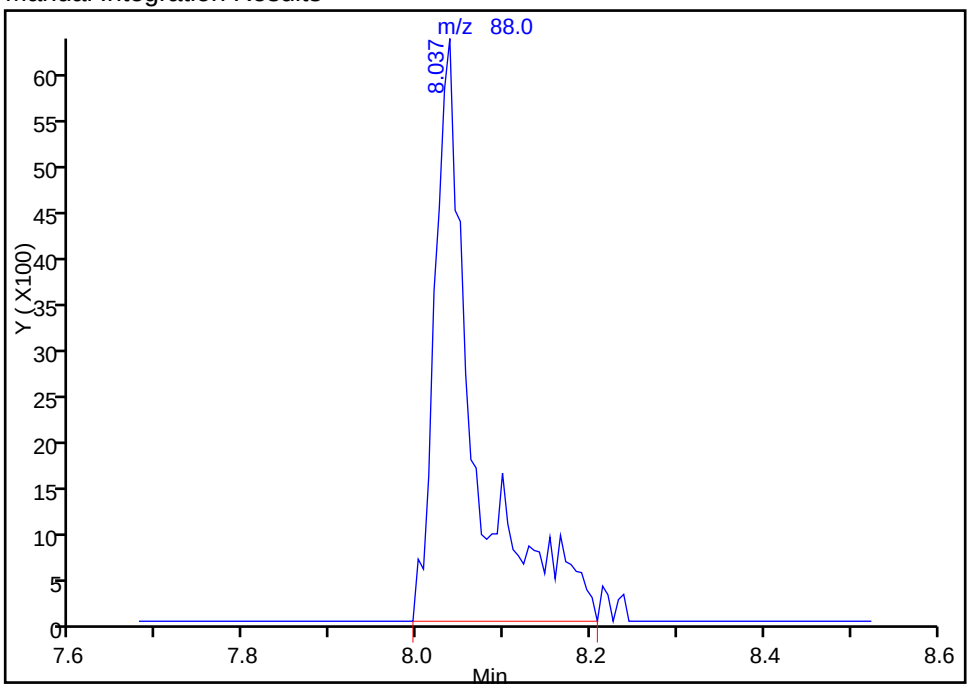
Processing Integration Results

RT: 8.04
Area: 14179
Amount: 760.0490
Amount Units: ng



Manual Integration Results

RT: 8.04
Area: 19894
Amount: 1066.3950
Amount Units: ng



Reviewer: fergusond, 05-Oct-2015 13:53:57
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-11-0/1-0 MS | Lab Sample ID: 180-48073-1 MS

Matrix: Water | Lab File ID: 51001010.D

Analysis Method: 8260C | Date Collected: 09/23/2015 14:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 16:11

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.: 155577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	9.86		1.0	0.28
75-01-4	Vinyl chloride	9.11		1.0	0.23
74-83-9	Bromomethane	9.60		1.0	0.31
75-00-3	Chloroethane	8.32		1.0	0.21
75-35-4	1,1-Dichloroethene	9.29		1.0	0.30
67-64-1	Acetone	20.0		5.0	2.5
75-15-0	Carbon disulfide	8.73		1.0	0.21
75-09-2	Methylene Chloride	8.69		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.85		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.48		1.0	0.18
75-34-3	1,1-Dichloroethane	8.50		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.48		1.0	0.24
74-97-5	Bromochloromethane	9.50		1.0	0.18
78-93-3	2-Butanone (MEK)	20.5		5.0	0.55
67-66-3	Chloroform	8.80		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.75		1.0	0.29
56-23-5	Carbon tetrachloride	8.77		1.0	0.14
71-43-2	Benzene	8.85		1.0	0.11
107-06-2	1,2-Dichloroethane	8.32		1.0	0.21
79-01-6	Trichloroethene	11.2		1.0	0.14
78-87-5	1,2-Dichloropropane	8.50		1.0	0.095
75-27-4	Bromodichloromethane	8.13		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	7.57		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	18.1		5.0	0.53
108-88-3	Toluene	9.86		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.65		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.3		1.0	0.20
127-18-4	Tetrachloroethene	10.7		1.0	0.15
591-78-6	2-Hexanone	18.2		5.0	0.16
124-48-1	Dibromochloromethane	9.69		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.0		1.0	0.18
108-90-7	Chlorobenzene	10.1		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	10.0		1.0	0.28
100-41-4	Ethylbenzene	9.91		1.0	0.23
1330-20-7	Xylenes, Total	20.2		3.0	0.49
100-42-5	Styrene	10.4		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-11-0/1-0 MS | Lab Sample ID: 180-48073-1 MS

Matrix: Water | Lab File ID: 51001010.D

Analysis Method: 8260C | Date Collected: 09/23/2015 14:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 16:11

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.: 155577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	8.93		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.3		1.0	0.20
107-13-1	Acrylonitrile	92.9		20	0.55
123-91-1	1,4-Dioxane	201		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		64-135
2037-26-5	Toluene-d8 (Surr)	99		71-118
460-00-4	4-Bromofluorobenzene (Surr)	98		70-118
1868-53-7	Dibromofluoromethane (Surr)	85		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001010.D
Lims ID: 180-48073-C-1 MS
Client ID:
Sample Type: MS
Inject. Date: 01-Oct-2015 16:11:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48073-C-1 MS
Misc. Info.: 180-0008778-010
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 01-Oct-2015 17:04:54 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: fergusond Date: 01-Oct-2015 17:05:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.275	4.278	-0.003	0	129650	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.289	0.003	98	367328	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.386	0.003	87	83492	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.728	0.003	94	133336	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.568	6.559	0.009	92	77115	50.0	42.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.939	6.936	0.003	0	96260	50.0	38.9	
$ 7 Toluene-d8 (Surr)	98	8.935	8.938	-0.003	94	319846	50.0	49.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.569	11.572	-0.003	89	118705	50.0	48.9	
11 Dichlorodifluoromethane	85	1.610	1.613	-0.003	99	104895	50.0	50.5	
12 Chloromethane	50	1.768	1.759	0.009	99	150268	50.0	49.3	
13 Vinyl chloride	62	1.908	1.905	0.003	98	123151	50.0	45.6	
14 Butadiene	39	1.945	1.936	0.009	96	173769	50.0	54.4	
15 Bromomethane	94	2.243	2.234	0.009	89	52775	50.0	48.0	
16 Chloroethane	64	2.407	2.386	0.021	98	67853	50.0	41.6	
17 Dichlorofluoromethane	67	2.681	2.666	0.015	98	160930	50.0	46.5	
18 Trichlorofluoromethane	101	2.711	2.702	0.009	96	132353	50.0	51.1	
20 Ethyl ether	59	3.052	3.049	0.003	96	99015	50.0	41.3	
21 Acrolein	56	3.228	3.232	-0.004	97	40287	150.0	112.7	
22 1,1-Dichloroethene	96	3.350	3.347	0.003	97	94989	50.0	46.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.429	3.414	0.015	91	98058	50.0	45.2	
24 Acetone	43	3.441	3.438	0.003	75	74282	100.0	100.2	
25 Iodomethane	142	3.539	3.542	-0.003	97	141521	50.0	46.4	
26 Carbon disulfide	76	3.648	3.633	0.015	100	207253	50.0	43.6	
28 3-Chloro-1-propene	76	3.922	3.925	-0.003	88	45288	50.0	39.1	
30 Methyl acetate	43	3.946	3.937	0.009	100	520681	250.0	235.1	
31 Methylene Chloride	84	4.141	4.138	0.003	99	106185	50.0	43.5	
32 2-Methyl-2-propanol	59	4.408	4.406	0.002	89	72209	500.0	494.8	
33 Acrylonitrile	53	4.530	4.521	0.009	99	499264	500.0	464.6	
34 trans-1,2-Dichloroethene	96	4.573	4.564	0.009	96	98293	50.0	44.3	
35 Methyl tert-butyl ether	73	4.579	4.576	0.003	94	218006	50.0	42.4	
36 Hexane	57	4.993	4.990	0.002	96	160280	50.0	43.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.205	5.196	0.009	97	186065	50.0	42.5	
38 Vinyl acetate	43	5.254	5.245	0.009	98	207587	50.0	63.2	
44 2,2-Dichloropropane	77	5.948	5.945	0.003	60	69848	50.0	39.8	
45 cis-1,2-Dichloroethene	96	5.954	5.951	0.003	83	100637	50.0	42.4	
46 2-Butanone (MEK)	43	5.960	5.957	0.003	96	114290	100.0	102.6	
49 Chlorobromomethane	128	6.234	6.231	0.003	94	49514	50.0	47.5	
51 Tetrahydrofuran	42	6.252	6.249	0.003	92	79319	100.0	88.8	
52 Chloroform	83	6.386	6.383	0.003	95	166360	50.0	44.0	
53 1,1,1-Trichloroethane	97	6.544	6.541	0.003	97	122305	50.0	43.7	
54 Cyclohexane	56	6.617	6.614	0.003	96	198062	50.0	42.3	
56 Carbon tetrachloride	117	6.720	6.711	0.009	95	104405	50.0	43.9	
55 1,1-Dichloropropene	75	6.732	6.730	0.002	91	132958	50.0	43.0	
57 Isobutyl alcohol	41	6.927	6.924	0.003	89	99499	1250.0	1422.4	
58 Benzene	78	6.945	6.942	0.003	98	400973	50.0	44.3	
59 1,2-Dichloroethane	62	7.024	7.022	0.002	96	130328	50.0	41.6	
62 n-Heptane	43	7.310	7.307	0.003	97	148235	50.0	43.8	
64 Trichloroethene	130	7.681	7.679	0.002	97	124418	50.0	56.1	
66 Methylcyclohexane	83	7.913	7.916	-0.003	96	147090	50.0	42.1	
67 1,2-Dichloropropane	63	7.949	7.952	-0.003	95	101021	50.0	42.5	
70 1,4-Dioxane	88	8.028	8.025	0.003	39	16458	1000.0	1004.4	
68 Dibromomethane	93	8.034	8.031	0.003	96	53662	50.0	44.5	
71 Dichlorobromomethane	83	8.229	8.232	-0.003	98	97034	50.0	40.7	
74 cis-1,3-Dichloropropene	75	8.679	8.676	0.003	91	105835	50.0	37.8	
75 4-Methyl-2-pentanone (MIBK	43	8.825	8.822	0.003	98	186631	100.0	90.7	
76 Toluene	91	9.008	9.005	0.003	98	407672	50.0	49.3	
77 trans-1,3-Dichloropropene	75	9.251	9.254	-0.003	99	93256	50.0	43.2	
78 Ethyl methacrylate	69	9.312	9.309	0.003	95	95167	50.0	45.6	
79 1,1,2-Trichloroethane	97	9.446	9.449	-0.003	92	80913	50.0	51.5	
80 Tetrachloroethene	164	9.519	9.516	0.003	97	86083	50.0	53.7	
81 1,3-Dichloropropane	76	9.604	9.601	0.003	99	134289	50.0	46.0	
82 2-Hexanone	43	9.659	9.656	0.003	99	135361	100.0	91.2	
84 Chlorodibromomethane	129	9.817	9.814	0.003	92	65942	50.0	48.4	
85 Ethylene Dibromide	107	9.926	9.929	-0.003	97	75767	50.0	50.0	
86 3-Chlorobenzotrifluoride	180	10.389	10.392	-0.003	84	135707	50.0	51.1	
87 Chlorobenzene	112	10.419	10.416	0.003	95	268569	50.0	50.5	
88 4-Chlorobenzotrifluoride	180	10.474	10.477	-0.003	96	129611	50.0	51.6	
89 1,1,1,2-Tetrachloroethane	131	10.510	10.507	0.003	92	86751	50.0	50.0	
90 Ethylbenzene	106	10.516	10.513	0.003	98	139860	50.0	49.6	
91 m-Xylene & p-Xylene	106	10.644	10.647	-0.003	0	172202	50.0	49.8	
92 o-Xylene	106	11.027	11.031	-0.004	97	167901	50.0	51.1	
93 Styrene	104	11.046	11.049	-0.003	96	284135	50.0	52.2	
94 Bromoform	173	11.234	11.231	0.003	97	34682	50.0	44.6	
96 2-Chlorobenzotrifluoride	180	11.295	11.298	-0.003	97	134641	50.0	51.5	
97 Isopropylbenzene	105	11.392	11.396	-0.004	96	412652	50.0	51.3	
99 1,1,2,2-Tetrachloroethane	83	11.703	11.706	-0.003	79	109682	50.0	51.7	
100 Bromobenzene	156	11.709	11.712	-0.003	93	108760	50.0	47.5	
102 trans-1,4-Dichloro-2-buten	53	11.745	11.742	0.003	71	10605	50.0	12.8	
101 1,2,3-Trichloropropane	110	11.763	11.761	0.002	88	36522	50.0	48.4	
103 N-Propylbenzene	120	11.812	11.809	0.003	99	118750	50.0	45.3	
104 2-Chlorotoluene	126	11.897	11.900	-0.003	97	105334	50.0	47.3	
105 3-Chlorotoluene	126	11.964	11.961	0.003	95	106356	50.0	46.5	
106 1,3,5-Trimethylbenzene	105	11.995	11.998	-0.003	96	352521	50.0	47.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.019	12.022	-0.003	98	116282	50.0	47.4	
108 tert-Butylbenzene	119	12.311	12.308	0.003	94	272876	50.0	45.3	
110 1,2,4-Trimethylbenzene	105	12.366	12.369	-0.003	97	356258	50.0	48.0	
111 1,2-dichloro-4-(trifluorom	214	12.408	12.411	-0.003	96	89895	50.0	43.5	
112 sec-Butylbenzene	105	12.530	12.533	-0.003	94	404725	50.0	47.6	
113 1,3-Dichlorobenzene	146	12.646	12.649	-0.003	99	204423	50.0	50.2	
114 4-Isopropyltoluene	119	12.688	12.691	-0.003	97	344869	50.0	48.0	
115 1,4-Dichlorobenzene	146	12.755	12.752	0.003	96	211863	50.0	50.0	
116 2,4-Dichloro-1-(triflourom	214	12.779	12.776	0.003	96	86774	50.0	45.3	
118 2,5-Dichlorobenzotrifluori	214	12.816	12.825	-0.009	0	95997	50.0	46.4	
120 n-Butylbenzene	91	13.096	13.099	-0.003	98	273535	50.0	44.5	
121 1,2-Dichlorobenzene	146	13.108	13.111	-0.003	97	189685	50.0	49.8	
122 1,2-Dibromo-3-Chloropropan	75	13.899	13.902	-0.003	79	14036	50.0	44.9	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.045	14.042	0.003	0	307740	150.0	141.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.464	14.462	0.002	0	195103	100.0	94.1	
126 1,2,4-Trichlorobenzene	180	14.726	14.723	0.003	94	74135	50.0	50.0	
127 Hexachlorobutadiene	225	14.872	14.869	0.003	96	36326	50.0	50.9	
128 Naphthalene	128	14.988	14.991	-0.003	97	199005	50.0	52.3	
129 1,2,3-Trichlorobenzene	180	15.213	15.216	-0.003	96	60559	50.0	50.5	
131 2,4,5-Trichlorotoluene	159	15.991	15.995	-0.004	0	19311	50.0	44.6	
130 2,3,6-Trichlorotoluene	159	16.089	16.086	0.003	96	18438	50.0	46.2	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	100.8	
S 134 1,2-Dichloroethene, Total	96				0		100.0	86.7	
S 135 1,3-Dichloropropene, Total	1				0		100.0	81.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
VOA8260VOA2ND_00144	Amount Added:	2.00	Units: uL		
voaWKetmix2nd_00002	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	

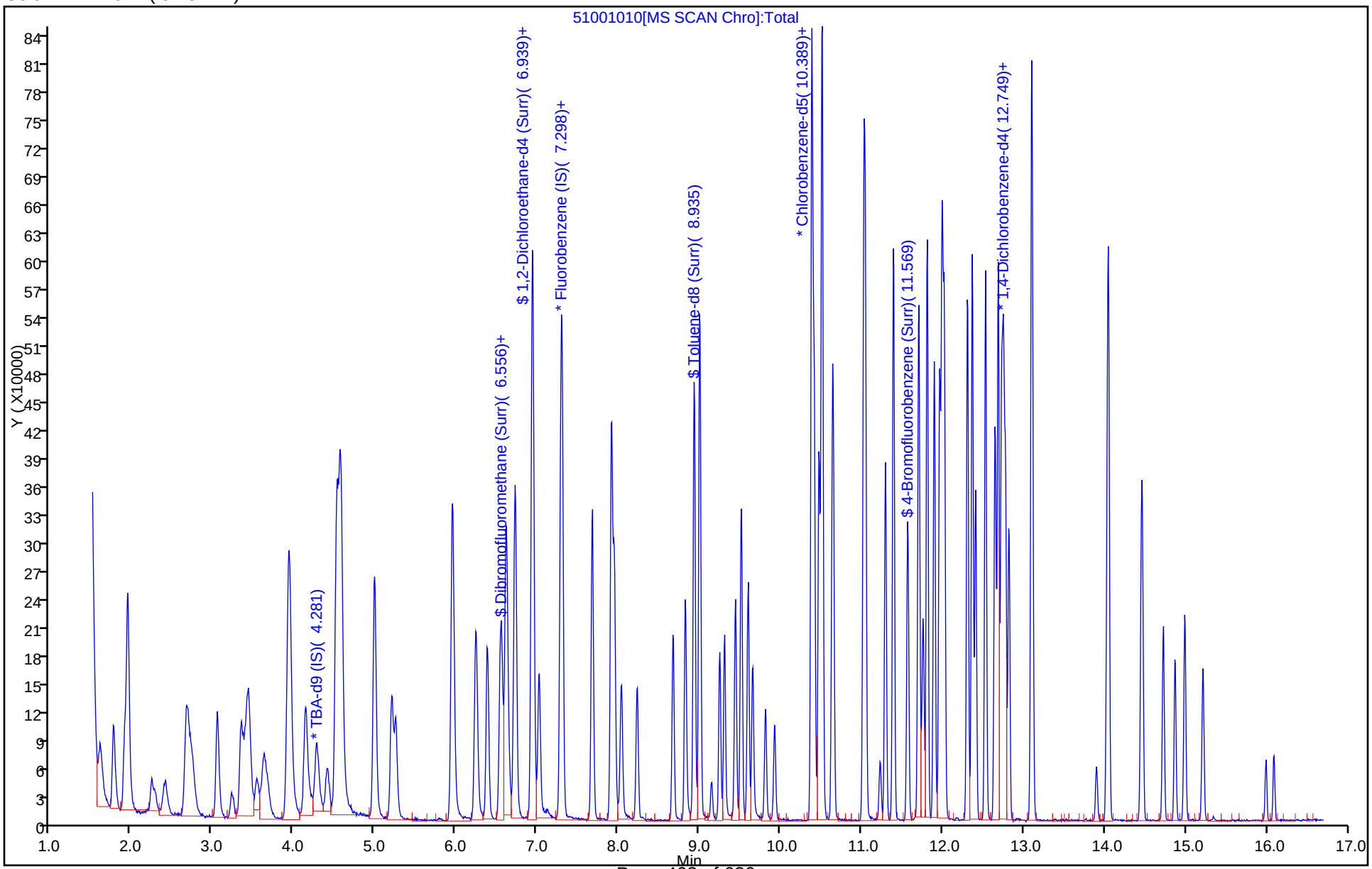
Report Date: 01-Oct-2015 17:05:44 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001010.D

Injection Date:	01-Oct-2015 16:11:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48073-C-1 MS			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_LL_CHHP5	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.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-11-0/1-0 MSD | Lab Sample ID: 180-48073-1 MSD

Matrix: Water | Lab File ID: 51001011.D

Analysis Method: 8260C | Date Collected: 09/23/2015 14:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 16:35

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.: 155577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	9.99		1.0	0.28
75-01-4	Vinyl chloride	9.11		1.0	0.23
74-83-9	Bromomethane	10.3		1.0	0.31
75-00-3	Chloroethane	8.62		1.0	0.21
75-35-4	1,1-Dichloroethene	9.06		1.0	0.30
67-64-1	Acetone	18.1		5.0	2.5
75-15-0	Carbon disulfide	8.68		1.0	0.21
75-09-2	Methylene Chloride	8.82		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.74		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.71		1.0	0.18
75-34-3	1,1-Dichloroethane	8.60		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.88		1.0	0.24
74-97-5	Bromochloromethane	9.38		1.0	0.18
78-93-3	2-Butanone (MEK)	20.8		5.0	0.55
67-66-3	Chloroform	8.81		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.81		1.0	0.29
56-23-5	Carbon tetrachloride	8.84		1.0	0.14
71-43-2	Benzene	8.90		1.0	0.11
107-06-2	1,2-Dichloroethane	8.26		1.0	0.21
79-01-6	Trichloroethene	11.5		1.0	0.14
78-87-5	1,2-Dichloropropane	8.65		1.0	0.095
75-27-4	Bromodichloromethane	8.44		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	7.97		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	17.8		5.0	0.53
108-88-3	Toluene	9.65		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.15		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.47		1.0	0.20
127-18-4	Tetrachloroethene	10.4		1.0	0.15
591-78-6	2-Hexanone	17.9		5.0	0.16
124-48-1	Dibromochloromethane	9.23		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	9.47		1.0	0.18
108-90-7	Chlorobenzene	9.68		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.69		1.0	0.28
100-41-4	Ethylbenzene	9.72		1.0	0.23
1330-20-7	Xylenes, Total	19.8		3.0	0.49
100-42-5	Styrene	10.3		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-11-0/1-0 MSD | Lab Sample ID: 180-48073-1 MSD

Matrix: Water | Lab File ID: 51001011.D

Analysis Method: 8260C | Date Collected: 09/23/2015 14:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2015 16:35

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.: 155577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	8.43		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.86		1.0	0.20
107-13-1	Acrylonitrile	93.8		20	0.55
123-91-1	1,4-Dioxane	200		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79		64-135
2037-26-5	Toluene-d8 (Surr)	96		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\CHHP5\20151001-8778.b\51001011.D
Lims ID: 180-48073-B-1 MSD
Client ID:
Sample Type: MSD
Inject. Date: 01-Oct-2015 16:35:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48073-B-1 MSD
Misc. Info.: 180-0008778-011
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 01-Oct-2015 17:09:26 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: fergusond Date: 01-Oct-2015 17:09:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.278	4.278	0.000	0	123948	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	377317	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.386	0.000	87	90807	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.728	0.000	93	139612	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.565	6.559	0.006	94	83808	50.0	45.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.936	0.000	0	100405	50.0	39.5	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	336441	50.0	48.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.572	0.000	89	126114	50.0	47.7	
11 Dichlorodifluoromethane	85	1.607	1.613	-0.006	98	109261	50.0	51.3	
12 Chloromethane	50	1.772	1.759	0.013	99	156407	50.0	50.0	
13 Vinyl chloride	62	1.905	1.905	0.000	98	126476	50.0	45.6	
14 Butadiene	39	1.942	1.936	0.006	97	186075	50.0	56.7	
15 Bromomethane	94	2.240	2.234	0.006	90	58297	50.0	51.6	
16 Chloroethane	64	2.404	2.386	0.018	98	72193	50.0	43.1	
17 Dichlorofluoromethane	67	2.672	2.666	0.006	97	157077	50.0	44.2	
18 Trichlorofluoromethane	101	2.708	2.702	0.006	95	133895	50.0	50.4	M
20 Ethyl ether	59	3.055	3.049	0.006	98	106224	50.0	43.1	
21 Acrolein	56	3.244	3.232	0.012	98	44008	150.0	119.9	
22 1,1-Dichloroethene	96	3.347	3.347	0.000	94	95178	50.0	45.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.420	3.414	0.006	92	101349	50.0	45.5	
24 Acetone	43	3.438	3.438	0.000	99	69021	100.0	90.7	
25 Iodomethane	142	3.548	3.542	0.006	97	148450	50.0	47.4	
26 Carbon disulfide	76	3.633	3.633	0.000	100	211715	50.0	43.4	
28 3-Chloro-1-propene	76	3.925	3.925	0.000	88	48881	50.0	41.1	
30 Methyl acetate	43	3.943	3.937	0.006	99	520868	250.0	229.0	
31 Methylene Chloride	84	4.138	4.138	0.000	97	110525	50.0	44.1	
32 2-Methyl-2-propanol	59	4.418	4.406	0.012	88	68158	500.0	488.6	
33 Acrylonitrile	53	4.527	4.521	0.006	99	517509	500.0	468.8	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	97	99681	50.0	43.7	
35 Methyl tert-butyl ether	73	4.582	4.576	0.006	95	229906	50.0	43.5	
36 Hexane	57	4.996	4.990	0.006	95	168419	50.0	44.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.209	5.196	0.013	96	193223	50.0	43.0	
38 Vinyl acetate	43	5.257	5.245	0.012	97	217333	50.0	64.4	
44 2,2-Dichloropropane	77	5.951	5.945	0.006	65	79662	50.0	44.2	
45 cis-1,2-Dichloroethene	96	5.957	5.951	0.006	84	108283	50.0	44.4	
46 2-Butanone (MEK)	43	5.963	5.957	0.006	78	118783	100.0	103.8	
49 Chlorobromomethane	128	6.237	6.231	0.006	94	50205	50.0	46.9	
51 Tetrahydrofuran	42	6.255	6.249	0.006	93	78395	100.0	85.4	
52 Chloroform	83	6.383	6.383	0.000	97	171092	50.0	44.1	
53 1,1,1-Trichloroethane	97	6.541	6.541	0.000	96	126459	50.0	44.0	
54 Cyclohexane	56	6.620	6.614	0.006	97	211200	50.0	44.0	
56 Carbon tetrachloride	117	6.717	6.711	0.006	98	108146	50.0	44.2	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	90	139343	50.0	43.9	
57 Isobutyl alcohol	41	6.924	6.924	0.000	91	83737	1250.0	1165.4	
58 Benzene	78	6.943	6.942	0.001	98	414130	50.0	44.5	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	132932	50.0	41.3	
62 n-Heptane	43	7.308	7.307	0.001	98	156034	50.0	44.8	
64 Trichloroethene	130	7.679	7.679	0.000	96	131227	50.0	57.7	
66 Methylcyclohexane	83	7.916	7.916	0.000	94	159864	50.0	44.6	
67 1,2-Dichloropropane	63	7.952	7.952	0.000	94	105604	50.0	43.3	
70 1,4-Dioxane	88	8.031	8.025	0.006	37	16854	1000.0	1001.4	
68 Dibromomethane	93	8.038	8.031	0.007	94	54784	50.0	44.2	
71 Dichlorobromomethane	83	8.232	8.232	0.000	98	103521	50.0	42.2	
74 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	90	114449	50.0	39.8	
75 4-Methyl-2-pentanone (MIBK	43	8.828	8.822	0.006	99	199195	100.0	89.0	
76 Toluene	91	9.005	9.005	0.000	98	433770	50.0	48.2	
77 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	98	95642	50.0	40.8	
78 Ethyl methacrylate	69	9.309	9.309	0.000	95	97044	50.0	42.8	
79 1,1,2-Trichloroethane	97	9.443	9.449	-0.006	91	80980	50.0	47.4	
80 Tetrachloroethene	164	9.516	9.516	0.000	97	90433	50.0	51.8	
81 1,3-Dichloropropane	76	9.601	9.601	0.000	99	144291	50.0	45.4	
82 2-Hexanone	43	9.656	9.656	0.000	98	144573	100.0	89.5	
84 Chlorodibromomethane	129	9.814	9.814	0.000	91	68314	50.0	46.1	
85 Ethylene Dibromide	107	9.930	9.929	0.001	98	78017	50.0	47.3	
86 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	84	138031	50.0	47.8	
87 Chlorobenzene	112	10.416	10.416	0.000	95	280023	50.0	48.4	
88 4-Chlorobenzotrifluoride	180	10.477	10.477	0.000	95	131437	50.0	48.1	
89 1,1,1,2-Tetrachloroethane	131	10.507	10.507	0.000	92	91371	50.0	48.4	
90 Ethylbenzene	106	10.514	10.513	0.001	99	149168	50.0	48.6	
91 m-Xylene & p-Xylene	106	10.647	10.647	0.000	0	183091	50.0	48.7	
92 o-Xylene	106	11.025	11.031	-0.006	96	180721	50.0	50.5	
93 Styrene	104	11.049	11.049	0.000	96	304233	50.0	51.4	
94 Bromoform	173	11.231	11.231	0.000	96	35596	50.0	42.1	
96 2-Chlorobenzotrifluoride	180	11.298	11.298	0.000	97	136462	50.0	48.0	
97 Isopropylbenzene	105	11.396	11.396	0.000	96	439846	50.0	50.2	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.706	0.000	91	113750	50.0	49.3	
100 Bromobenzene	156	11.712	11.712	0.000	93	113829	50.0	47.5	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.742	0.000	72	11691	50.0	13.5	
101 1,2,3-Trichloropropane	110	11.761	11.761	0.000	87	36619	50.0	46.3	
103 N-Propylbenzene	120	11.809	11.809	0.000	99	125263	50.0	45.7	
104 2-Chlorotoluene	126	11.901	11.900	0.001	97	114124	50.0	48.9	
105 3-Chlorotoluene	126	11.961	11.961	0.000	95	112538	50.0	47.0	
106 1,3,5-Trimethylbenzene	105	11.992	11.998	-0.006	94	376098	50.0	48.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.022	12.022	0.000	97	122049	50.0	47.6	
108 tert-Butylbenzene	119	12.308	12.308	0.000	94	301394	50.0	47.8	
110 1,2,4-Trimethylbenzene	105	12.369	12.369	0.000	98	376873	50.0	48.5	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.411	0.001	97	92335	50.0	42.6	
112 sec-Butylbenzene	105	12.527	12.533	-0.006	94	429962	50.0	48.3	
113 1,3-Dichlorobenzene	146	12.649	12.649	0.000	99	214014	50.0	50.1	
114 4-Isopropyltoluene	119	12.685	12.691	-0.006	97	368471	50.0	49.0	
115 1,4-Dichlorobenzene	146	12.752	12.752	0.000	96	223625	50.0	50.4	
116 2,4-Dichloro-1-(triflourom	214	12.777	12.776	0.001	95	83590	50.0	41.7	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.825	-0.006	0	100486	50.0	46.3	
120 n-Butylbenzene	91	13.099	13.099	0.000	98	287281	50.0	44.6	
121 1,2-Dichlorobenzene	146	13.105	13.111	-0.006	97	198436	50.0	49.8	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.902	0.000	77	14823	50.0	45.3	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.042	14.042	0.000	0	324868	150.0	142.6	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.462	0.000	0	204761	100.0	94.3	
126 1,2,4-Trichlorobenzene	180	14.723	14.723	0.000	95	76399	50.0	49.2	
127 Hexachlorobutadiene	225	14.869	14.869	0.000	97	35807	50.0	47.9	
128 Naphthalene	128	14.991	14.991	0.000	97	213194	50.0	53.5	
129 1,2,3-Trichlorobenzene	180	15.210	15.216	-0.006	96	64919	50.0	51.7	
131 2,4,5-Trichlorotoluene	159	15.989	15.995	-0.006	0	19367	50.0	42.7	
130 2,3,6-Trichlorotoluene	159	16.092	16.086	0.006	97	20202	50.0	48.3	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	99.2	
S 134 1,2-Dichloroethene, Total	96				0		100.0	88.1	
S 135 1,3-Dichloropropene, Total	1				0		100.0	80.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
VOA8260VOA2ND_00144	Amount Added:	2.00	Units: uL		
voaWKetmix2nd_00002	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	

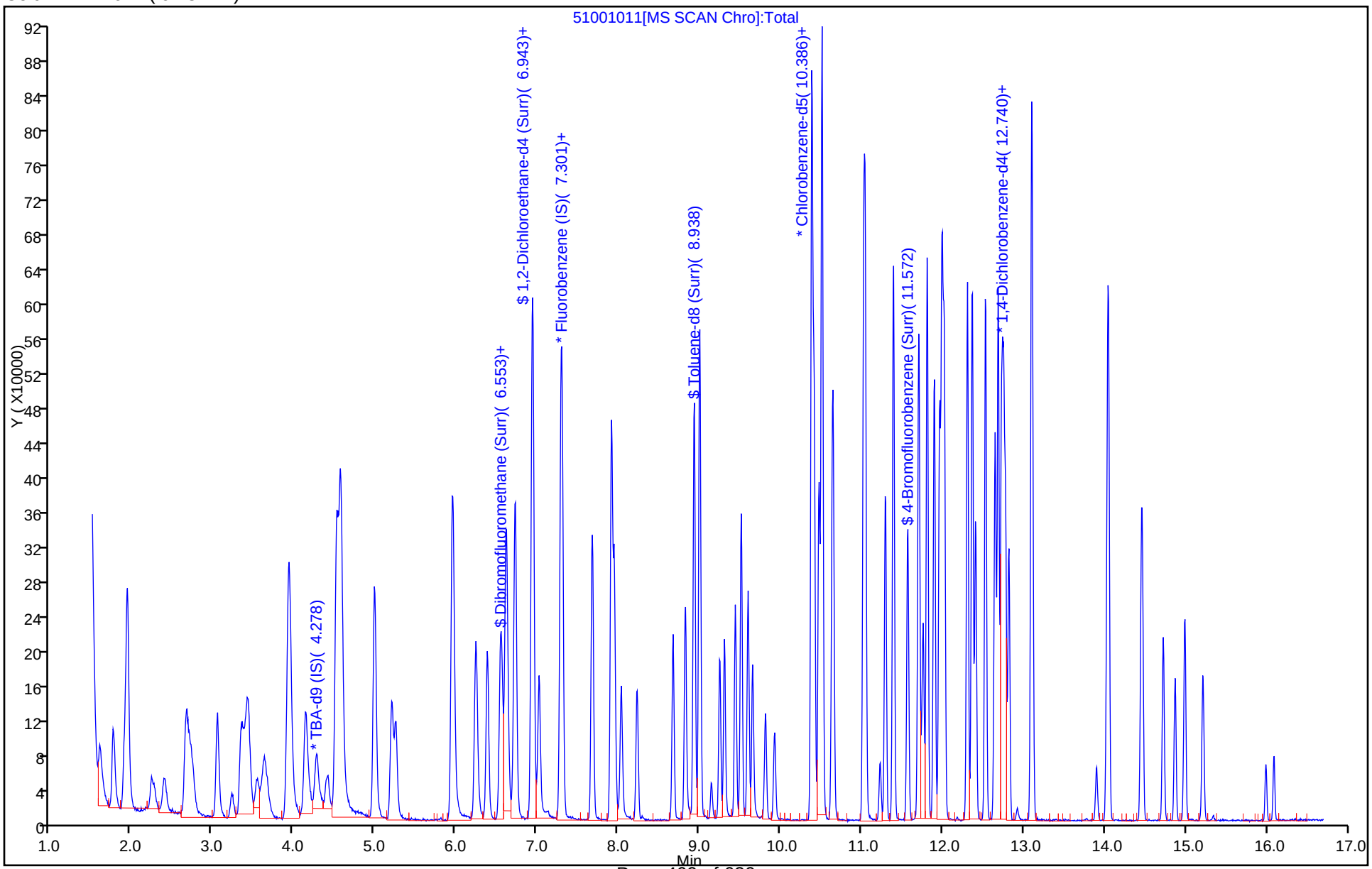
Report Date: 01-Oct-2015 17:09:27 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151001-8778.b\51001011.D

Injection Date:	01-Oct-2015 16:35:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48073-B-1 MSD			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CHHP5 Start Date: 08/26/2015 14:01

Analysis Batch Number: 151868 End Date: 08/26/2015 20:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-151868/7		08/26/2015 14:01	1	50826007.D	DB-624 0.18(mm)
IC 180-151868/6		08/26/2015 15:04	1	50826006.D	DB-624 0.18(mm)
IC 180-151868/8		08/26/2015 15:28	1	50826008.D	DB-624 0.18(mm)
ICIS 180-151868/9		08/26/2015 15:52	1	50826009.D	DB-624 0.18(mm)
IC 180-151868/10		08/26/2015 16:16	1	50826010.D	DB-624 0.18(mm)
IC 180-151868/11		08/26/2015 16:40	1	50826011.D	DB-624 0.18(mm)
IC 180-151868/12		08/26/2015 17:04	1	50826012.D	DB-624 0.18(mm)
IC 180-151868/13		08/26/2015 17:28	1	50826013.D	DB-624 0.18(mm)
IC 180-151868/14		08/26/2015 17:52	1	50826014.D	DB-624 0.18(mm)
ZZZZZ		08/26/2015 19:52	1		DB-624 0.18(mm)
ICV 180-151868/20		08/26/2015 20:16	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CHHP5 Start Date: 10/01/2015 13:11

Analysis Batch Number: 155577 End Date: 10/01/2015 21:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-155577/6		10/01/2015 13:11	1	51001006.D	DB-624 0.18(mm)
CCVIS 180-155577/2		10/01/2015 13:46	1	51001002.D	DB-624 0.18(mm)
ZZZZZ		10/01/2015 13:46	1		DB-624 0.18(mm)
ZZZZZ		10/01/2015 14:21	1		DB-624 0.18(mm)
MB 180-155577/7		10/01/2015 14:45	1	51001007.D	DB-624 0.18(mm)
180-48073-1	HD-MW-11-0/1-0	10/01/2015 15:20	1	51001008.D	DB-624 0.18(mm)
180-48073-7	HD-QC7-0/1-2	10/01/2015 15:46	1	51001009.D	DB-624 0.18(mm)
180-48073-1 MS	HD-MW-11-0/1-0 MS	10/01/2015 16:11	1	51001010.D	DB-624 0.18(mm)
180-48073-1 MSD	HD-MW-11-0/1-0 MSD	10/01/2015 16:35	1	51001011.D	DB-624 0.18(mm)
LCS 180-155577/12		10/01/2015 16:59	1	51001012.D	DB-624 0.18(mm)
ZZZZZ		10/01/2015 18:12	10		DB-624 0.18(mm)
ZZZZZ		10/01/2015 18:36	1		DB-624 0.18(mm)
180-48073-3	HD-MW-16D-0/1-0	10/01/2015 19:24	1	51001018.D	DB-624 0.18(mm)
180-48073-5 DL	HD-MW-94-0/1-0 DL	10/01/2015 20:12	25	51001020.D	DB-624 0.18(mm)
ZZZZZ		10/01/2015 21:01	3		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CHHP5 Start Date: 10/02/2015 11:57

Analysis Batch Number: 155711 End Date: 10/02/2015 23:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-155711/5		10/02/2015 11:57	1	51002005.D	DB-624 0.18(mm)
CCVIS 180-155711/2		10/02/2015 12:37	1	51002002.D	DB-624 0.18(mm)
ZZZZZ		10/02/2015 13:18	1		DB-624 0.18(mm)
MB 180-155711/6		10/02/2015 13:42	1	51002006.D	DB-624 0.18(mm)
ZZZZZ		10/02/2015 14:21	1		DB-624 0.18(mm)
ZZZZZ		10/02/2015 14:45	1		DB-624 0.18(mm)
LCS 180-155711/9		10/02/2015 15:09	1	51002009.D	DB-624 0.18(mm)
ZZZZZ		10/02/2015 15:33	1		DB-624 0.18(mm)
ZZZZZ		10/02/2015 15:57	1		DB-624 0.18(mm)
ZZZZZ		10/02/2015 16:46	2		DB-624 0.18(mm)
ZZZZZ		10/02/2015 17:10	20		DB-624 0.18(mm)
ZZZZZ		10/02/2015 17:34	5		DB-624 0.18(mm)
ZZZZZ		10/02/2015 17:58	1		DB-624 0.18(mm)
ZZZZZ		10/02/2015 18:22	10		DB-624 0.18(mm)
ZZZZZ		10/02/2015 18:46	1		DB-624 0.18(mm)
ZZZZZ		10/02/2015 19:10	1		DB-624 0.18(mm)
ZZZZZ		10/02/2015 19:34	1		DB-624 0.18(mm)
ZZZZZ		10/02/2015 19:59	50		DB-624 0.18(mm)
ZZZZZ		10/02/2015 20:23	200		DB-624 0.18(mm)
ZZZZZ		10/02/2015 21:11	200		DB-624 0.18(mm)
ZZZZZ		10/02/2015 21:35	200		DB-624 0.18(mm)
ZZZZZ		10/02/2015 22:22	1		DB-624 0.18(mm)
180-48073-2	HD-MW-16S-0/1-0	10/02/2015 22:46	1	51002028.D	DB-624 0.18(mm)
180-48073-6	HD-MW-57-0/1-0	10/02/2015 23:10	1	51002029.D	DB-624 0.18(mm)
180-48073-4	HD-MW-49S-0/1-0	10/02/2015 23:34	200	51002030.D	DB-624 0.18(mm)
ZZZZZ		10/02/2015 23:59	2.5		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CHHP5 Start Date: 10/05/2015 10:17

Analysis Batch Number: 155884 End Date: 10/05/2015 22:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-155884/1		10/05/2015 10:17	1	51005001.D	DB-624 0.18(mm)
CCVIS 180-155884/2		10/05/2015 10:56	1	51005002.D	DB-624 0.18(mm)
ZZZZZ		10/05/2015 11:33	1		DB-624 0.18(mm)
MB 180-155884/4		10/05/2015 11:57	1	51005004.D	DB-624 0.18(mm)
ZZZZZ		10/05/2015 12:46	1		DB-624 0.18(mm)
ZZZZZ		10/05/2015 13:10	1		DB-624 0.18(mm)
LCS 180-155884/7		10/05/2015 13:34	1	51005007.D	DB-624 0.18(mm)
ZZZZZ		10/05/2015 13:58	1		DB-624 0.18(mm)
ZZZZZ		10/05/2015 14:22	1		DB-624 0.18(mm)
ZZZZZ		10/05/2015 15:10	1		DB-624 0.18(mm)
ZZZZZ		10/05/2015 15:34	50		DB-624 0.18(mm)
ZZZZZ		10/05/2015 15:59	1		DB-624 0.18(mm)
ZZZZZ		10/05/2015 16:23	5		DB-624 0.18(mm)
ZZZZZ		10/05/2015 17:35	10		DB-624 0.18(mm)
ZZZZZ		10/05/2015 17:59	50		DB-624 0.18(mm)
ZZZZZ		10/05/2015 18:23	50		DB-624 0.18(mm)
ZZZZZ		10/05/2015 18:48	5		DB-624 0.18(mm)
ZZZZZ		10/05/2015 19:12	1		DB-624 0.18(mm)
180-48073-5	HD-MW-94-0/1-0	10/05/2015 19:36	2.5	51005022.D	DB-624 0.18(mm)
ZZZZZ		10/05/2015 20:24	100		DB-624 0.18(mm)
ZZZZZ		10/05/2015 21:12	1		DB-624 0.18(mm)
ZZZZZ		10/05/2015 21:36	1		DB-624 0.18(mm)
ZZZZZ		10/05/2015 22:01	1		DB-624 0.18(mm)

Method 8270D Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

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-49S-0/1-0	180-48073-4	48	54	56	55	66	72
	MB 180-155373/1-A	61	62	65	61	63	68
	LCS 180-155373/2-A	66	66	69	67	73	67
	LCSD 180-155373/3-A	67	67	70	67	74	65

	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.: 180-48073-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D10040012.D

Lab ID: LCS 180-155373/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	20.0	12.2	61	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.: 180-48073-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D10040013.D

Lab ID: LCSD 180-155373/3-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	12.3	62	1	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.: 180-48073-1

SDG No.:

Lab File ID: D10040007.D Lab Sample ID: MB 180-155373/1-A

Matrix: Water Date Extracted: 09/30/2015 08:57

Instrument ID: CH732 Date Analyzed: 10/04/2015 17:58

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-155373/2-A	D10040012.D	10/04/2015 20:08
	LCSD 180-155373/3-A	D10040013.D	10/04/2015 20:34
HD-MW-49S-0/1-0	180-48073-4	D10040021.D	10/04/2015 23:44

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab File ID: D08270002.D DFTPP Injection Date: 08/27/2015

Instrument ID: CH732 DFTPP Injection Time: 05:10

Analysis Batch No.: 151940

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	28.8	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	38.6	
70	Less than 2.0 % of mass 69	0.1	(0.2) 1
127	40.0 - 60.0 % of mass 198	41.3	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.9	
275	10.0 - 30.0 % of mass 198	25.4	
365	Greater than 1.0 % of mass 198	2.6	
441	Present but less than mass 443	7.2	(88.2) 3
442	Greater than 40.0 % of mass 198	40.9	
443	17.0 - 23.0 % of mass 442	8.2	(20.0) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-151940/3	D08270003.D	08/27/2015	05:25
	IC 180-151940/4	D08270004.D	08/27/2015	05:51
	IC 180-151940/5	D08270005.D	08/27/2015	06:18
	ICIS 180-151940/6	D08270006.D	08/27/2015	06:44
	IC 180-151940/7	D08270007.D	08/27/2015	07:23
	IC 180-151940/8	D08270008.D	08/27/2015	07:49
	IC 180-151940/9	D08270009.D	08/27/2015	08:16
	IC 180-151940/10	D08270010.D	08/27/2015	08:42

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab File ID: D10040002.D DFTPP Injection Date: 10/04/2015

Instrument ID: CH732 DFTPP Injection Time: 16:02

Analysis Batch No.: 155804

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	36.8	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	43.0	
70	Less than 2.0 % of mass 69	0.2	(0.4) 1
127	40.0 - 60.0 % of mass 198	43.6	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.6	
275	10.0 - 30.0 % of mass 198	25.6	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	9.0	(99.3) 3
442	Greater than 40.0 % of mass 198	45.1	
443	17.0 - 23.0 % of mass 442	9.0	(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 180-155804/3	D10040003.D	10/04/2015	16:17
	MB 180-155373/1-A	D10040007.D	10/04/2015	17:58
	LCS 180-155373/2-A	D10040012.D	10/04/2015	20:08
	LCSD 180-155373/3-A	D10040013.D	10/04/2015	20:34
HD-MW-49S-0/1-0	180-48073-4	D10040021.D	10/04/2015	23:44

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Sample No.: CCVIS 180-155804/3 Date Analyzed: 10/04/2015 16:17

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): D10040003.D Heated Purge: (Y/N) N

Calibration ID: 25107

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		100948	6.14	392829	7.43	276416	9.13
UPPER LIMIT		201896	6.64	785658	7.93	552832	9.63
LOWER LIMIT		50474	5.64	196415	6.93	138208	8.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155373/1-A		107146	6.13	432777	7.42	300740	9.13
LCS 180-155373/2-A		109356	6.13	441302	7.43	306582	9.14
LCSD 180-155373/3-A		108596	6.13	441140	7.43	307854	9.14
180-48073-4	HD-MW-49S-0/1-0	90442	6.13	360502	7.43	252427	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.: 180-48073-1

SDG No.:

Sample No.: CCVIS 180-155804/3 Date Analyzed: 10/04/2015 16:17

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): D10040003.D Heated Purge: (Y/N) N

Calibration ID: 25107

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		568067	10.57	711144	14.29	636345	17.16
UPPER LIMIT		1136134	11.07	1422288	14.79	1272690	17.66
LOWER LIMIT		284034	10.07	355572	13.79	318173	16.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155373/1-A		615593	10.58	717326	14.31	656024	17.18
LCS 180-155373/2-A		634039	10.58	757192	14.32	677675	17.20
LCSD 180-155373/3-A		615370	10.58	775386	14.32	710346	17.20
180-48073-4	HD-MW-49S-0/1-0	499486	10.58	548194	14.33	494149	17.21

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.: 180-48073-1

SDG No.:

Client Sample ID: HD-MW-49S-0/1-0 | Lab Sample ID: 180-48073-4

Matrix: Water | Lab File ID: D10040021.D

Analysis Method: 8270D LL | Date Collected: 09/23/2015 09:41

Extract. Method: 3520C | Date Extracted: 09/30/2015 08:57

Sample wt/vol: 270(mL) | Date Analyzed: 10/04/2015 23:44

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.: 155804 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.9		1.9	0.049

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	55		28-109
367-12-4	2-Fluorophenol (Surr)	48		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	66		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	56		27-114
4165-62-2	Phenol-d5 (Surr)	54		25-105
1718-51-0	Terphenyl-d14 (Surr)	72		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040021.D
Lims ID: 180-48073-D-4-A Lab Sample ID: 180-48073-4
Client ID: HD-MW-49S-0/1-0
Sample Type: Client
Inject. Date: 04-Oct-2015 23:44:30 ALS Bottle#: 20 Worklist Smp#: 21
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008812-021
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 05-Oct-2015 06:48:51 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 05-Oct-2015 06:44:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.132	6.137	-0.005	97	90442	8.00	
* 2 Naphthalene-d8	136	7.425	7.425	0.000	100	360502	8.00	
* 3 Acenaphthene-d10	164	9.140	9.134	0.006	93	252427	8.00	
* 4 Phenanthrene-d10	188	10.582	10.571	0.011	97	499486	8.00	
* 5 Chrysene-d12	240	14.327	14.295	0.032	97	548194	8.00	
* 6 Perylene-d12	264	17.207	17.169	0.038	98	494149	8.00	
$ 7 2-Fluorophenol	112	4.668	4.679	-0.011	92	239836	19.1	
$ 8 Phenol-d5	99	5.758	5.758	0.000	95	369529	21.7	
$ 9 Nitrobenzene-d5	82	6.698	6.698	0.000	90	401289	22.3	
$ 10 2-Fluorobiphenyl	172	8.472	8.467	0.005	100	1030600	22.0	
$ 11 2,4,6-Tribromophenol	330	9.898	9.888	0.010	86	131394	26.5	
$ 12 Terphenyl-d14	244	12.505	12.479	0.026	99	1639983	28.8	
13 1,4-Dioxane	88	1.458	1.484	-0.026	89	50973	10.7	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

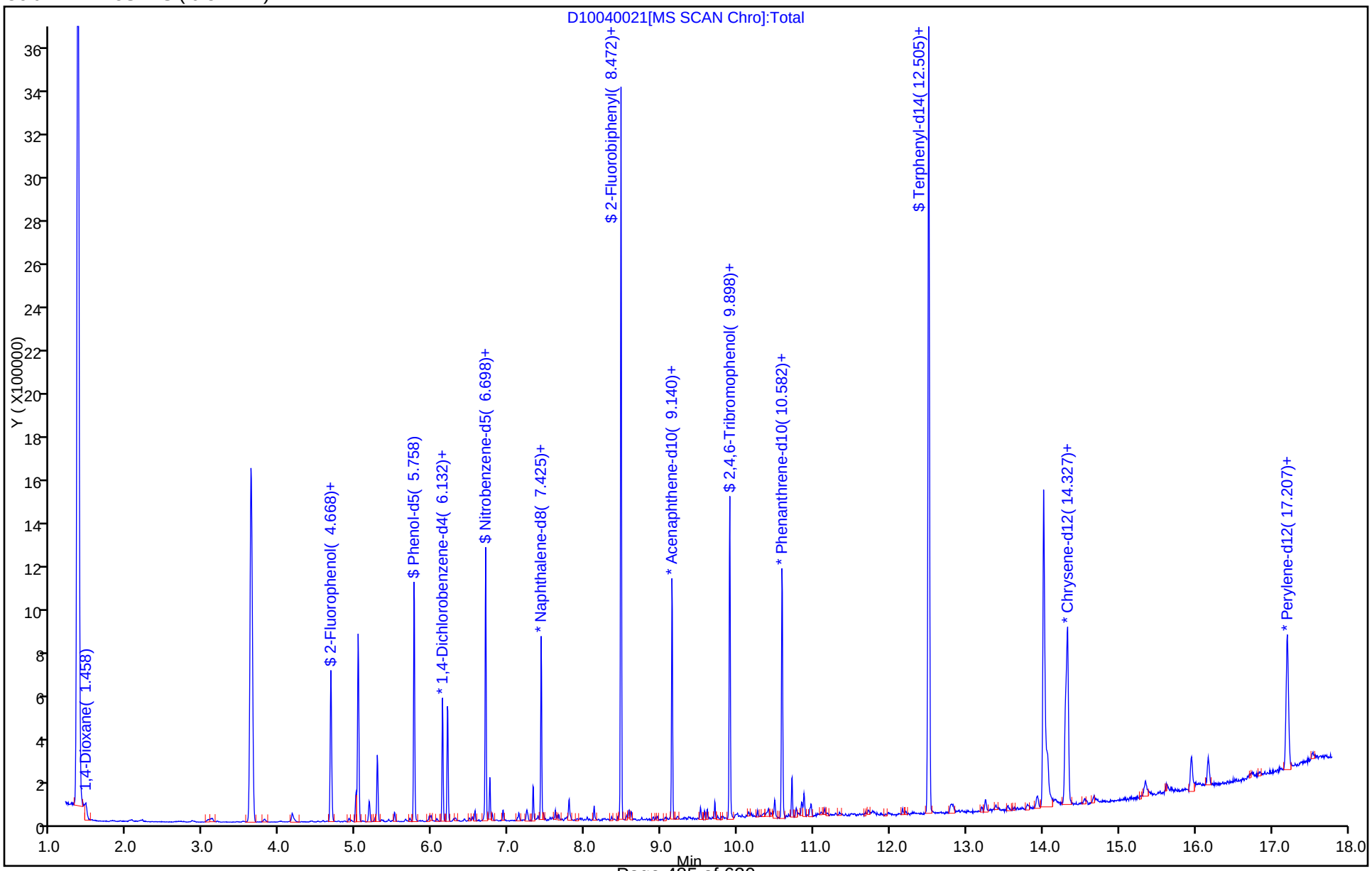
Report Date: 05-Oct-2015 06:50:33 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040021.D

Injection Date:	04-Oct-2015 23:44:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	180-48073-D-4-A	Lab Sample ID:	180-48073-4	Worklist Smp#:	21
Client ID:	HD-MW-49S-0/1-0				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



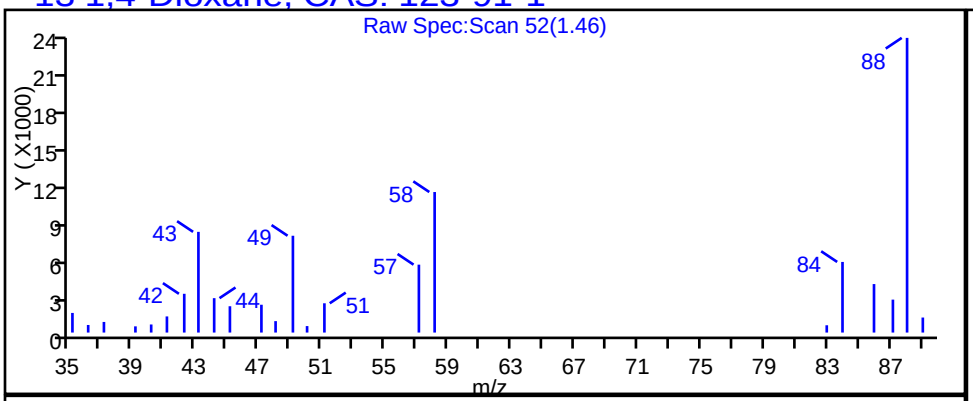
Report Date: 05-Oct-2015 06:50:33 Chrom Revision: 2.2 08-Sep-2015 13:41:46

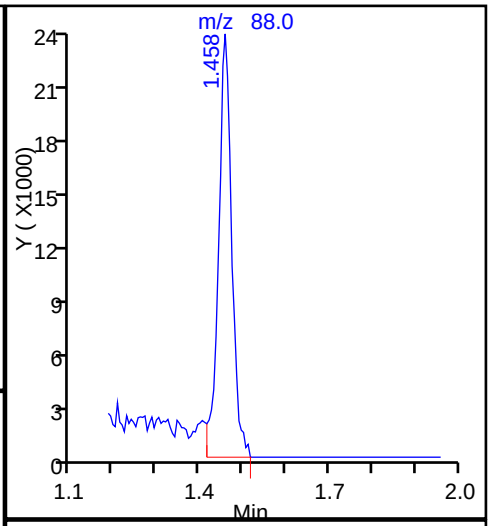
TestAmerica Pittsburgh

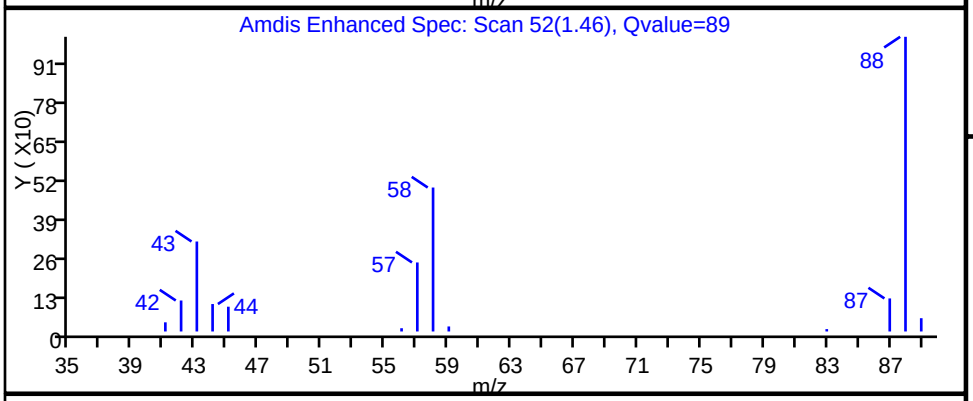
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040021.D

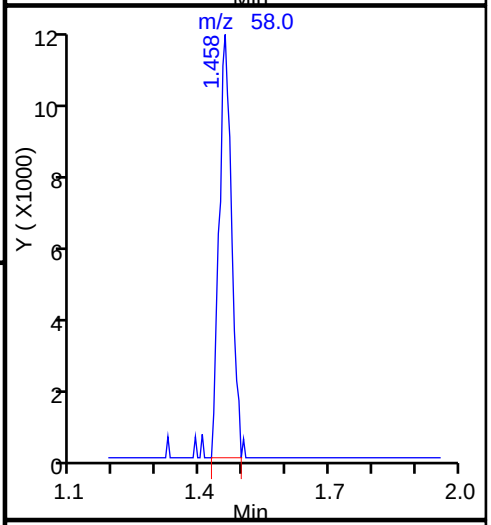
Injection Date:	04-Oct-2015 23:44:30	Instrument ID:	CH732		
Lims ID:	180-48073-D-4-A	Lab Sample ID:	180-48073-4		
Client ID:	HD-MW-49S-0/1-0				
Operator ID:	003200	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

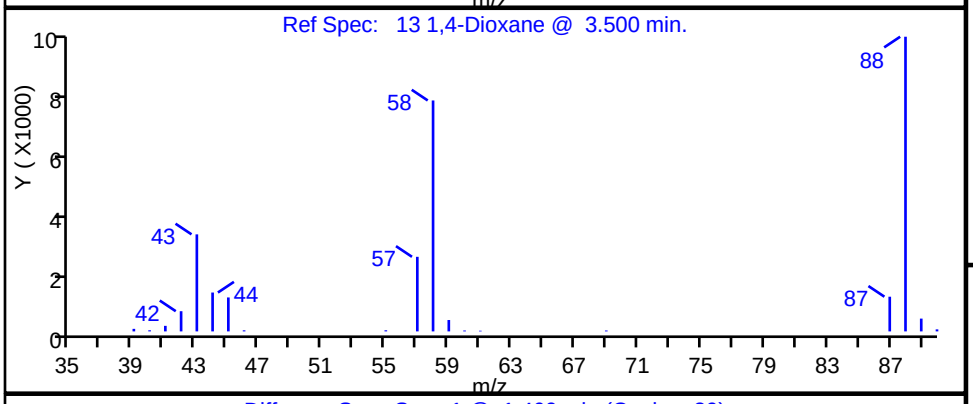
13 1,4-Dioxane, CAS: 123-91-1

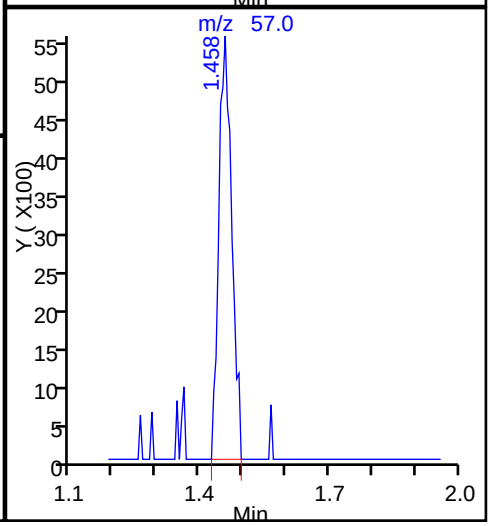


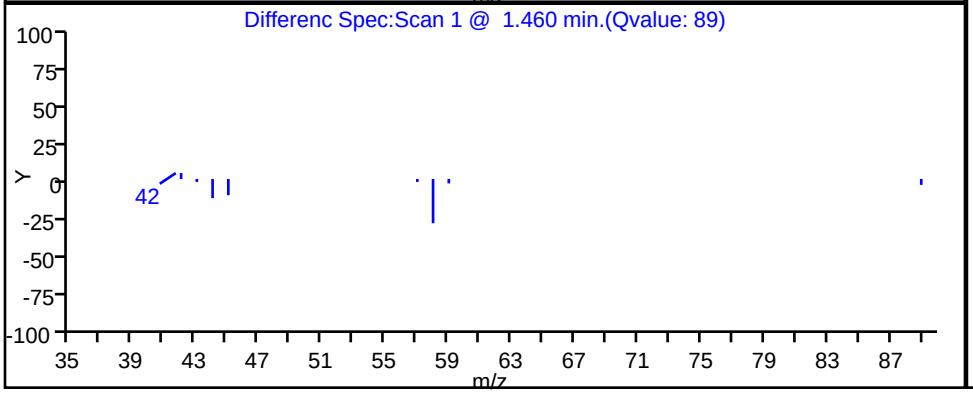












FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151940/3	D08270003.D
Level 2	IC 180-151940/4	D08270004.D
Level 3	IC 180-151940/5	D08270005.D
Level 4	ICIS 180-151940/6	D08270006.D
Level 5	IC 180-151940/7	D08270007.D
Level 6	IC 180-151940/8	D08270008.D
Level 7	IC 180-151940/9	D08270009.D
Level 8	IC 180-151940/10	D08270010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.3922	0.5355 0.3898	0.4547 0.3790	0.4110	0.3964	Ave		0.4227			0.0100	13.1		20.0			
N-Nitrosodimethylamine	0.4675 0.5041	0.4733 0.5139	0.4948 0.5088	0.4991	0.5015	Ave		0.4954			0.0100	3.3		20.0			
Pyridine	0.8082 0.9935	0.8948 0.9979	0.9684 0.9829	0.9783	0.9752	Ave		0.9499			0.0100	6.9		20.0			
Methyl methanesulfonate	0.6209 0.6401	0.6256 0.6309	0.6687 0.6339	0.6610	0.6483	Ave		0.6412			0.0100	2.6		20.0			
Benzaldehyde	0.8103 0.7923	0.8186 0.7954	0.8004 0.7860	0.7946	0.7952	Ave		0.7991			0.0100	1.3		20.0			
Phenol	1.6082 1.7208	1.7598 1.7454	1.8162 1.7384	1.7970	1.7505	Ave		1.7420			0.8000	3.6		20.0			
Aniline	1.7867 1.9531	1.9085 1.9932	1.9703 2.0120	1.9834	1.9713	Ave		1.9473			0.0100	3.7		20.0			
Bis(2-chloroethyl)ether	1.0955 1.1384	1.1429 1.1571	1.2013 1.1445	1.1565	1.1476	Ave		1.1480			0.7000	2.5		20.0			
2-Chlorophenol	1.1281 1.3581	1.2298 1.3840	1.3298 1.3975	1.3379	1.3581	Ave		1.3154			0.8000	6.9		20.0			
n-Decane	0.9291 0.9183	0.9152 0.9167	0.9555 0.9163	0.9348	0.9200	Ave		0.9257				1.5		20.0			
1,3-Dichlorobenzene	1.7012 1.6653	1.6149 1.7345	1.7127 1.7325	1.6525	1.6918	Ave		1.6882			0.0100	2.5		20.0			
1,4-Dichlorobenzene	1.7714 1.7202	1.6462 1.7898	1.7382 1.7784	1.7573	1.7159	Ave		1.7397			0.0100	2.7		20.0			
Benzyl alcohol	0.6569 0.8366	0.7398 0.8628	0.7695 0.8617	0.8130	0.8151	Ave		0.7944			0.0100	8.8		20.0			
1,2-Dichlorobenzene	1.6640 1.6248	1.6320 1.6760	1.6524 1.6913	1.6326	1.6573	Ave		1.6538			0.0100	1.4		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Methylphenol	1.0658 1.2391	1.1552 1.2645	1.2642 1.2510	1.2426	1.2378	Ave		1.2150			0.7000	5.7		20.0			
Indene	2.5031 2.4692	2.4990 2.5536	2.5397 2.5372	2.5005	2.4840	Ave		2.5108			0.0100	1.2		20.0			
2,2'-oxybis[1-chloropropane]	1.1675 1.0813	1.0947 1.0854	1.1746 1.0826	1.1281	1.0861	Ave		1.1125			0.0100	3.5		20.0			
N-Nitrosopyrrolidine	0.3587 0.5752	0.5219 0.6019	0.5708 0.6110	0.5728	0.5698	Ave		0.5478			0.0100	14.8		20.0			
Acetophenone	2.0782 1.9437	2.0062 1.9510	2.0394 1.9494	2.0678	1.9634	Ave		1.9999			0.0100	2.8		20.0			
N-Nitrosodi-n-propylamine	0.8961 0.9334	0.9541 0.9132	1.0155 0.9100	1.0127	0.9590	Ave		0.9493			0.5000	4.8		20.0			
Methylphenol, 3 & 4	1.1033 1.2964	1.2857 1.2894	1.3271 1.2934	1.3468	1.2863	Ave		1.2786			0.6000	5.8		20.0			
Hexachloroethane	0.6374 0.7018	0.6877 0.7173	0.7196 0.7048	0.7447	0.7089	Ave		0.7028			0.3000	4.4		20.0			
Nitrobenzene	0.3799 0.4057	0.3997 0.3991	0.4217 0.4042	0.4214	0.4091	Ave		0.4051			0.2000	3.3		20.0			
Isophorone	0.5614 0.6910	0.5976 0.6861	0.6463 0.6907	0.6692	0.6672	Ave		0.6512			0.4000	7.3		20.0			
2-Nitrophenol	+++++ 0.2004	0.1565 0.2030	0.1747 0.2085	0.1899	0.1933	Ave		0.1895			0.1000	9.6		20.0			
2,4-Dimethylphenol	0.3332 0.4210	0.3904 0.4185	0.4079 0.4186	0.4097	0.4098	Ave		0.4011			0.2000	7.2		20.0			
Benzoic acid	+++++ 0.1794	+++++ 0.2074	0.0749 0.2174	0.1106	0.1449	Lin1	-0.783	0.2150			0.0100				0.9900		0.9900
Bis(2-chloroethoxy)methane	0.3876 0.4104	0.4035 0.3986	0.4099 0.4043	0.4096	0.4042	Ave		0.4035			0.3000	1.9		20.0			
2,4-Dichlorophenol	0.2564 0.3501	0.2952 0.3512	0.3219 0.3559	0.3340	0.3408	Ave		0.3257			0.2000	10.5		20.0			
1,2,4-Trichlorobenzene	0.4038 0.4282	0.4098 0.4265	0.4204 0.4368	0.4187	0.4199	Ave		0.4205			0.0100	2.5		20.0			
Naphthalene	1.1450 1.1673	1.1478 1.1788	1.1515 1.2014	1.1312	1.1598	Ave		1.1603			0.7000	1.9		20.0			
4-Chloroaniline	0.3675 0.4797	0.4356 0.4822	0.4562 0.4889	0.4653	0.4679	Ave		0.4554			0.0100	8.6		20.0			
2,6-Dichlorophenol	0.2707 0.3422	0.3060 0.3418	0.3250 0.3472	0.3281	0.3323	Ave		0.3242			0.0100	7.8		20.0			
Hexachlorobutadiene	0.2865 0.3064	0.2915 0.3115	0.3038 0.3111	0.2997	0.3047	Ave		0.3019			0.0100	3.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Caprolactam	+++++ 0.1041	0.0606 0.1069	0.0756 0.1081	0.0901	0.0966	Ave		0.0917			0.0100	19.4		20.0			
4-Chloro-3-methylphenol	0.2546 0.3793	0.3069 0.3827	0.3474 0.3827	0.3589	0.3673	Ave		0.3475			0.2000	13.0		20.0			
2-Methylnaphthalene	0.8144 0.8638	0.8074 0.8673	0.8475 0.8872	0.8532	0.8444	Ave		0.8482			0.4000	3.1		20.0			
1-Methylnaphthalene	0.6890 0.7462	0.7219 0.7570	0.7606 0.7686	0.7312	0.7336	Ave		0.7385			0.0100	3.5		20.0			
Hexachlorocyclopentadiene	0.3901 0.5515	0.4323 0.5581	0.4545 0.5567	0.4900	0.5268	Ave		0.4950			0.0500	12.9		20.0			
1,2,4,5-Tetrachlorobenzene	0.7500 0.7563	0.7055 0.7483	0.7436 0.7340	0.7464	0.7544	Ave		0.7423			0.0100	2.2		20.0			
2,4,6-Trichlorophenol	0.2821 0.4311	0.3392 0.4309	0.3642 0.4275	0.4125	0.4129	Ave		0.3876			0.2000	14.0		20.0			
2,4,5-Trichlorophenol	0.2910 0.4549	0.3634 0.4576	0.4058 0.4413	0.4460	0.4538	Ave		0.4142			0.2000	14.3		20.0			
1,1'-Biphenyl	1.4792 1.6116	1.5551 1.6177	1.5758 1.5975	1.6235	1.5997	Ave		1.5825			0.0100	3.0		20.0			
2-Chloronaphthalene	1.1523 1.2233	1.1796 1.2214	1.1947 1.1882	1.2209	1.1996	Ave		1.1975			0.8000	2.1		20.0			
2-Nitroaniline	0.2548 0.3735	0.2866 0.3624	0.3217 0.3527	0.3529	0.3645	Ave		0.3336			0.0100	12.8		20.0			
Dimethyl phthalate	1.1812 1.4052	1.2016 1.3954	1.2601 1.3834	1.3382	1.3364	Ave		1.3127			0.0100	6.7		20.0			
1,3-Dinitrobenzene	+++++ 0.2215	0.1553 0.2304	0.1775 0.2210	0.2041	0.2120	Ave		0.2031			0.0100	13.4		20.0			
2,6-Dinitrotoluene	0.2167 0.3193	0.2663 0.3247	0.2883 0.3137	0.3091	0.3082	Ave		0.2933			0.2000	12.3		20.0			
Acenaphthylene	1.6906 1.9878	1.7855 1.9873	1.8539 1.9850	1.9073	1.9386	Ave		1.8920			0.9000	5.7		20.0			
3-Nitroaniline	+++++ 0.3234	0.2369 0.3202	0.2607 0.3158	0.3007	0.3113	Ave		0.2956			0.0100	11.3		20.0			
Acenaphthene	1.2378 1.3137	1.2732 1.3141	1.2817 1.2985	1.3250	1.2919	Ave		1.2920			0.9000	2.2		20.0			
2,4-Dinitrophenol	+++++ 0.2328	0.1084 0.2403	0.1115 0.2502	0.1563	0.1918	Lin1	-0.888	0.2450			0.0100				0.9930		0.9900
4-Nitrophenol	+++++ 0.2343	0.1652 0.2326	0.1880 0.2294	0.2165	0.2204	Ave		0.2123			0.0100	12.3		20.0			
2,4-Dinitrotoluene	+++++ 0.4437	0.3454 0.4447	0.3784 0.4394	0.4217	0.4206	Ave		0.4134			0.2000	9.1		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibenzofuran	1.7485 1.9341	1.8111 1.9158	1.8471 1.9165	1.8802	1.8521	Ave		1.8632			0.8000	3.3		20.0			
2,3,5,6-Tetrachlorophenol	+++++ 0.4397	0.3137 0.4489	0.3475 0.4490	0.3904	0.4104	Ave		0.4000			0.0100	13.2		20.0			
2,3,4,6-Tetrachlorophenol	0.2726 0.4301	0.3659 0.4424	0.3885 0.4448	0.4158	0.4124	Ave		0.3966			0.0100	14.3		20.0			
2-Naphthylamine	0.8234 1.3022	1.0466 1.3104	1.1268 1.3018	1.2735	1.2179	Ave		1.1753			0.0100	14.5		20.0			
Diethyl phthalate	1.1565 1.4104	1.2607 1.4380	1.2859 1.4025	1.3828	1.3674	Ave		1.3380			0.0100	7.1		20.0			
Hexadecane	0.4121 0.4713	0.4789 0.4561	0.4958 0.4417	0.4889	0.4791	Ave		0.4655				6.0		20.0			
4-Chlorophenyl phenyl ether	0.7750 0.8250	0.7957 0.8332	0.7986 0.8241	0.8109	0.8033	Ave		0.8082			0.4000	2.4		20.0			
4-Nitroaniline	+++++ 0.3524	0.2716 0.3529	0.2932 0.3512	0.3341	0.3334	Ave		0.3270			0.0100	9.8		20.0			
Fluorene	1.3802 1.5858	1.4968 1.5774	1.4944 1.5654	1.5811	1.5137	Ave		1.5244			0.9000	4.6		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1660	0.1047 0.1703	0.1075 0.1719	0.1352	0.1462	Ave		0.1431			0.0100	20.0		20.0			
N-Nitrosodiphenylamine	0.5054 0.6024	0.5797 0.6233	0.5839 0.6169	0.5826	0.5945	Ave		0.5861			0.0100	6.2		20.0			
1,2-Diphenylhydrazine(as Azobenzene)	0.7051 0.7966	0.8187 0.8023	0.8278 0.7670	0.8172	0.8124	Ave		0.7934			0.0100	5.1		20.0			
4-Bromophenyl phenyl ether	0.2063 0.2420	0.2215 0.2492	0.2386 0.2505	0.2333	0.2364	Ave		0.2347			0.1000	6.3		20.0			
Hexachlorobenzene	0.2005 0.2268	0.2209 0.2315	0.2326 0.2299	0.2264	0.2211	Ave		0.2237			0.1000	4.6		20.0			
Atrazine	0.1725 0.2495	0.2004 0.2545	0.2171 0.2511	0.2394	0.2350	Ave		0.2275			0.0100	12.7		20.0			
Pentachlorophenol	0.1479 0.1629	0.1472 0.1750	0.1126 0.1797	0.1367	0.1496	Ave		0.1515			0.0500	14.2		20.0			
n-Octadecane	1.7030 2.0717	1.8672 2.0443	2.1354 2.0045	2.1482	2.0483	Ave		2.0028				7.4		20.0			
Phenanthrene	1.1890 1.2748	1.2154 1.2802	1.2483 1.2917	1.2486	1.2308	Ave		1.2474			0.7000	2.8		20.0			
Anthracene	0.9943 1.2972	1.1600 1.3272	1.2140 1.3240	1.2259	1.2675	Ave		1.2263			0.7000	9.0		20.0			
Carbazole	0.8497 1.1301	0.9882 1.1414	1.0474 1.1486	1.0768	1.0886	Ave		1.0588			0.0100	9.4		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Di-n-butyl phthalate	+++++ 1.2835	0.9667 1.3085	1.0582 1.3105	1.1458	1.1903	Ave		1.1805			0.0100	11.3		20.0			
Fluoranthene	1.1003 1.4671	1.2586 1.5002	1.3461 1.4922	1.3599	1.3739	Ave		1.3623			0.6000	9.9		20.0			
Benzidine	+++++ 0.5692	+++++ 0.6024	0.2838 0.6052	0.4140	0.4435	Lin2	-1.308	0.5854			0.0100				0.9900		0.9900
Pyrene	1.1534 1.3445	1.2549 1.3347	1.3091 1.3286	1.3418	1.3342	Ave		1.3002			0.6000	5.1		20.0			
Butyl benzyl phthalate	+++++ 0.4942	0.3212 0.4963	0.3601 0.4933	0.4174	0.4647	Ave		0.4353			0.0100	16.4		20.0			
3,3'-Dichlorobenzidine	+++++ 0.4418	0.2444 0.4533	0.2796 0.4605	0.3407	0.4017	Lin2	-0.443	0.4349			0.0100				0.9910		0.9900
Bis(2-ethylhexyl) phthalate	+++++ 0.7006	0.3880 0.7022	0.4732 0.7042	0.5822	0.6574	Lin2	-0.674	0.6930			0.0100				0.9970		0.9900
Benzo[a]anthracene	1.1416 1.3579	1.2268 1.3815	1.2551 1.3932	1.2934	1.3231	Ave		1.2966			0.8000	6.6		20.0			
Chrysene	1.1018 1.2594	1.1718 1.2546	1.1979 1.2639	1.2149	1.2228	Ave		1.2109			0.7000	4.5		20.0			
Di-n-octyl phthalate	+++++ 1.3247	0.7408 1.3415	0.7058 1.4028	0.9393	1.1729	Lin1	-2.116	1.3781			0.0100				0.9960		0.9900
7,12-Dimethylbenz(a)anthracene	0.4327 0.6651	0.5145 0.6684	0.5697 0.6820	0.6201	0.6519	Ave		0.6005			0.0100	14.8		20.0			
Benzo[b]fluoranthene	1.1537 1.4562	1.2347 1.4679	1.3671 1.5687	1.4148	1.4599	Ave		1.3904			0.7000	9.7		20.0			
Benzo[k]fluoranthene	1.1155 1.5195	1.3303 1.4692	1.3588 1.4499	1.4450	1.4676	Ave		1.3945			0.7000	9.2		20.0			
Benzo[e]pyrene	1.0487 1.3609	1.1504 1.3481	1.2525 1.3744	1.2955	1.3380	Ave		1.2711			0.0100	9.1		20.0			
Benzo[a]pyrene	1.0878 1.4016	1.1303 1.3824	1.2330 1.4114	1.3029	1.3694	Ave		1.2899			0.7000	9.8		20.0			
Indeno[1,2,3-cd]pyrene	0.9313 1.5183	1.1160 1.5040	1.2980 1.5527	1.3702	1.4713	Ave		1.3452			0.5000	16.4		20.0			
Dibenz(a,h)anthracene	0.7685 1.2204	0.8963 1.2184	1.0447 1.2753	1.1071	1.1927	Ave		1.0904			0.4000	16.3		20.0			
Benzo[g,h,i]perylene	0.8873 1.2709	0.9352 1.2618	1.0853 1.3029	1.1486	1.2559	Ave		1.1435			0.5000	14.0		20.0			
2-Fluorophenol (Surr)	0.9433 1.1647	1.0480 1.1716	1.0837 1.1853	1.1445	1.1624	Ave		1.1129				7.5		20.0			
Phenol-d5 (Surr)	1.2891 1.5432	1.4820 1.5810	1.5066 1.5672	1.5607	1.5339	Ave		1.5080				6.2		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Nitrobenzene-d5 (Surr)	0.3430 0.4102	0.3917 0.4117	0.4011 0.4080	0.4148	0.4099	Ave		0.3988				5.9		20.0			
2-Fluorobiphenyl	1.4277 1.5175	1.4457 1.5087	1.4830 1.5014	1.5025	1.4992	Ave		1.4857				2.2		20.0			
2,4,6-Tribromophenol (Surr)	+++++ 0.0840	0.0646 0.0884	0.0730 0.0902	0.0764	0.0796	Ave		0.0795			0.0100	11.4		20.0			
Terphenyl-d14 (Surr)	0.7354 0.8670	0.7937 0.8643	0.8342 0.8556	0.8473	0.8580	Ave		0.8320				5.5		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151940/3	D08270003.D
Level 2	IC 180-151940/4	D08270004.D
Level 3	IC 180-151940/5	D08270005.D
Level 4	ICIS 180-151940/6	D08270006.D
Level 5	IC 180-151940/7	D08270007.D
Level 6	IC 180-151940/8	D08270008.D
Level 7	IC 180-151940/9	D08270009.D
Level 8	IC 180-151940/10	D08270010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCB	Ave	+++++ 197373	15431 288446	24572 369629	53629	107901	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodimethylamine	DCB	Ave	2755 253670	13638 380332	26742 496241	65121	136530	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pyridine	DCB	Ave	4763 499963	25782 738438	52336 958531	127655	265474	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methyl methanesulfonate	DCB	Ave	3659 322115	18025 466879	36140 618200	86244	176471	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzaldehyde	DCB	Ave	4775 398700	23586 588634	43258 766535	103678	216478	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol	DCB	Ave	9477 865978	50708 1291671	98155 1695423	234477	476522	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Aniline	DCB	Ave	10529 982866	54991 1474988	106482 1962166	258794	536626	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethyl)ether	DCB	Ave	6456 572881	32933 856257	64920 1116199	150907	312396	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chlorophenol	DCB	Ave	6648 683452	35436 1024174	71869 1362952	174578	369713	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
n-Decane	DCB	Ave	5475 462126	26372 678383	51638 893665	121973	250434	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	10025 838054	46532 1283590	92558 1689651	215618	460549	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	10439 865696	47433 1324513	93939 1734372	229293	467119	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzyl alcohol	DCB	Ave	3871 420998	21318 638480	41585 840398	106085	221882	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	9806 817664	47026 1240263	89299 1649470	213031	451168	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Methylphenol	DCB	Ave	6281 623578	33286 935730	68323 1220050	162138	336965	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Indene	DCB	Ave	14751 1242631	72008 1889719	137252 2474423	326270	676195	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	6880 544169	31543 803211	63478 1055760	147197	295653	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosopyrrolidine	DCB	Ave	2114 289452	15039 445429	30847 595856	74734	155122	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acetophenone	DCB	Ave	12247 978138	57807 1443811	110214 1901165	269817	534473	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodi-n-propylamine	DCB	Ave	5281 469708	27492 675770	54878 887516	132146	261060	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methylphenol, 3 & 4	DCB	Ave	6502 652399	37047 954217	71719 1261390	175728	350167	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachloroethane	DCB	Ave	3756 353182	19815 530835	38887 687341	97169	192976	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene	NPT	Ave	8893 783975	45515 1162575	90685 1545827	220872	431354	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Isophorone	NPT	Ave	13140 1335266	68049 1998697	138987 2641885	350811	703445	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitrophenol	NPT	Ave	+++++ 387330	17822 591362	37572 797385	99536	203813	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dimethylphenol	NPT	Ave	7800 813583	44452 1219307	87710 1600870	214743	432064	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzoic acid	NPT	Lin1	+++++ 346724	+++++ 604130	16099 831525	57976	152788	+++++ 40.0	+++++ 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethoxy)methane	NPT	Ave	9073 792988	45950 1161191	88155 1546206	214718	426156	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dichlorophenol	NPT	Ave	6001 676586	33619 1023138	69233 1361346	175091	359348	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4-Trichlorobenzene	NPT	Ave	9452 827436	46669 1242664	90400 1670736	219486	442701	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Naphthalene	NPT	Ave	26801 2255631	130703 3434071	247627 4594941	592967	1222921	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloroaniline	NPT	Ave	8602 927024	49598 1404773	98112 1870066	243925	493367	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dichlorophenol	NPT	Ave	6337 661302	34843 995809	69892 1327959	171987	350413	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobutadiene	NPT	Ave	6706 592088	33197 907594	65336 1189781	157124	321270	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Caprolactam	NPT	Ave	+++++ 201093	6905 311353	16267 413543	47247	101900	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloro-3-methylphenol	NPT	Ave	5959 733035	34951 1114851	74708 1463681	188133	387246	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Methylnaphthalene	NPT	Ave	19063 1669295	91938 2526821	182259 3393152	447226	890372	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1-Methylnaphthalene	NPT	Ave	16127 1442023	82207 2205431	163575 2939600	383306	773454	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorocyclopentadiene	ANT	Ave	6103 715858	32456 1113755	66585 1503712	166401	359967	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	11733 981820	52966 1493415	108929 1982696	253471	515477	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Trichlorophenol	ANT	Ave	4413 559680	25464 859867	53356 1154683	140085	282164	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,5-Trichlorophenol	ANT	Ave	4553 590477	27283 913214	59444 1191881	151442	310100	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,1'-Biphenyl	ANT	Ave	23142 2092034	116750 3228436	230833 4314960	551287	1093083	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chloronaphthalene	ANT	Ave	18027 1588013	88562 2437561	175008 3209389	414565	819668	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitroaniline	ANT	Ave	3986 484793	21518 723186	47126 952726	119839	249067	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dimethyl phthalate	ANT	Ave	18479 1824153	90214 2784740	184594 3736676	454395	913141	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dinitrobenzene	ANT	Ave	+++++ 287597	11660 459895	26008 596953	69318	144831	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dinitrotoluene	ANT	Ave	3390 414440	19994 647956	42233 847318	104957	210616	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthylene	ANT	Ave	26449 2580374	134052 3965951	271577 5361869	647649	1324601	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3-Nitroaniline	ANT	Ave	+++++ 419862	17786 639039	38185 852923	102113	212698	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthene	ANT	Ave	19365 1705375	95586 2622396	187752 3507444	449927	882731	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dinitrophenol	ANT	Lin1	+++++ 604486	16271 958993	32665 1351450	106159	262062	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
4-Nitrophenol	ANT	Ave	+++++ 608398	24800 928205	55083 1239225	147011	301156	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
2,4-Dinitrotoluene	ANT	Ave	+++++ 575971	25934 887387	55424 1186763	143206	287358	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenzofuran	ANT	Ave	27355 2510650	135973 3823243	270577 5176736	638452	1265525	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,5,6-Tetrachlorophenol	ANT	Ave	+++++ 570841	23553 895895	50909 1212705	132569	280423	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	4265 558343	27470 882967	56915 1201534	141201	281807	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Naphthylamine	ANT	Ave	12882 1690393	78575 2615066	165058 3516424	432426	832157	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Diethyl phthalate	ANT	Ave	18094 1830833	94651 2869830	188374 3788445	469555	934356	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexadecane	NPT	Ave	9646 910814	54531 1328786	106626 1689230	256287	505124	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chlorophenyl phenyl ether	ANT	Ave	12125 1070906	59739 1662715	116990 2226097	275354	548867	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Nitroaniline	ANT	Ave	+++++ 457519	20389 704181	42946 948636	113459	227809	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluorene	ANT	Ave	21593 2058565	112380 3147911	218910 4228475	536905	1034271	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 841937	28568 1304345	57853 1784464	177117	376550	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
N-Nitrosodiphenylamine	PHN	Ave	28936 3054825	158113 4772991	314082 6406001	762970	1531602	0.800 80.0	4.00 120	8.00 160	20.0	40.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	20184 2019882	111645 3071727	222649 3982021	535162	1046464	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Bromophenyl phenyl ether	PHN	Ave	5906 613479	30206 953903	64176 1300452	152770	304538	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobenzene	PHN	Ave	5740 575078	30125 886391	62558 1193780	148229	284825	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Atrazine	PHN	Ave	4939 632646	27333 974356	58399 1303874	156746	302744	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pentachlorophenol	PHN	Ave	8469 825885	40150 1340193	60561 1866135	179075	385498	0.800 80.0	4.00 120	8.00 160	20.0	40.0
n-Octadecane	DCB	Ave	10036 1042593	53801 1512839	115405 1954872	280304	557592	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenanthrene	PHN	Ave	34039 3232327	165744 4901195	335765 6706452	817668	1585431	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Anthracene	PHN	Ave	28463 3289228	158191 5081227	326517 6874021	802784	1632655	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Carbazole	PHN	Ave	24325 2865524	134759 4369754	281716 5963353	705160	1402210	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-butyl phthalate	PHN	Ave	+++++ 3254336	131834 5009737	284636 6803759	750296	1533243	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluoranthene	PHN	Ave	31499 3719899	171635 5743660	362057 7747328	890548	1769801	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzidine	CRY	Lin2	+++++ 1612161	+++++ 2643104	80226 3616899	290914	604145	+++++ 40.0	+++++ 60.0	4.00 80.0	10.0	20.0
Pyrene	CRY	Ave	32613 3808141	177971 5856402	370018 7939804	942774	1817383	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Butyl benzyl phthalate	CRY	Ave	+++++ 1399738	45550 2177555	101775 2948041	293262	632910	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3,3'-Dichlorobenzidine	CRY	Lin2	+++++ 1251216	34660 1989026	79033 2752277	239375	547194	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-ethylhexyl) phthalate	CRY	Lin2	+++++ 1984257	55029 3081046	133741 4208095	409057	895485	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]anthracene	CRY	Ave	32279 3846103	173982 6061874	354775 8325840	908773	1802182	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Chrysene	CRY	Ave	31152 3567125	166184 5505322	338591 7553430	853582	1665530	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-octyl phthalate	PRY	Lin1	+++++ 3308014	85907 5290377	157819 7471302	536425	1367652	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
7,12-Dimethylbenz(a)anthracene	PRY	Ave	10216 1660846	59662 2635748	127378 3632337	354164	760124	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	27241 3636264	143186 5788634	305692 8354915	807964	1702232	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	26338 3794541	154273 5793731	303823 7722175	825218	1711220	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[e]pyrene	PRY	Ave	24760 3398497	133409 5316287	280062 7319965	739858	1560075	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]pyrene	PRY	Ave	25684 3500034	131081 5451543	275698 7517239	744082	1596726	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	21988 3791364	129412 5931182	290237 8269617	782495	1715504	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	18145 3047446	103942 4804793	233595 6791957	632284	1390642	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	20951 3173770	108456 4975714	242670 6939445	655950	1464342	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorophenol (Surr)	DCB	Ave	5559 586128	30197 867016	58564 1155975	149333	316444	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol-d5 (Surr)	DCB	Ave	7597 776609	42704 1169982	81423 1528437	203640	417566	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene-d5 (Surr)	NPT	Ave	8029 792718	44602 1199362	86267 1560614	217414	432164	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorobiphenyl	ANT	Ave	22336 1969852	108540 3010856	217243 4055390	510190	1024406	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	+++++ 212962	8813 338544	19631 468486	50044	102568	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Terphenyl-d14 (Surr)	CRY	Ave	20793 2455660	112562 3792701	235803 5113114	595319	1168734	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1 Analy Batch No.: 151940

SDG No.:

Instrument ID: CH732 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 05:25 Calibration End Date: 08/27/2015 08:42 Calibration ID: 25107

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151940/3	D08270003.D
Level 2	IC 180-151940/4	D08270004.D
Level 3	IC 180-151940/5	D08270005.D
Level 4	ICIS 180-151940/6	D08270006.D
Level 5	IC 180-151940/7	D08270007.D
Level 6	IC 180-151940/8	D08270008.D
Level 7	IC 180-151940/9	D08270009.D
Level 8	IC 180-151940/10	D08270010.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Benzoic acid	+++++ 2.5	+++++ 5.7	25.8	-12.2	-14.4	-7.4	40	40	40	40	40	40
2,4-Dinitrophenol	+++++ 1.1	34.8 4.4	-9.2	-18.1	-12.7	-0.4	40	40 40	40	40	40	40
Benzidine	+++++ 6.6	+++++ 6.2	4.3	-6.9	-13.1	2.8	30	30	30	30	30	30
3,3'-Dichlorobenzidine	+++++ 5.9	7.1 7.2	-10.3	-11.5	-2.5	4.1	30	30 30	30	30	30	30
Bis(2-ethylhexyl) phthalate	+++++ 2.9	4.6 2.8	-7.4	-6.3	-0.3	3.5	40	40 40	40	40	40	40
Di-n-octyl phthalate	+++++ -0.1	30.5 3.7	-10.4	-16.5	-7.2	0.0	40	40 40	40	40	40	40

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Aug-2015 05:25:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-003
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:14:51 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 07:32:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.132	6.132	0.000	97	117861	8.00	8.00	
* 2 Naphthalene-d8	136	7.414	7.414	0.000	100	468129	8.00	8.00	
* 3 Acenaphthene-d10	164	9.118	9.118	0.000	92	312898	8.00	8.00	
* 4 Phenanthrene-d10	188	10.550	10.550	0.000	98	572551	8.00	8.00	
* 5 Chrysene-d12	240	14.242	14.242	0.000	97	565492	8.00	8.00	
* 6 Perylene-d12	264	17.100	17.100	0.000	97	472221	8.00	8.00	
$ 7 2-Fluorophenol	112	4.674	4.674	0.000	89	5559	0.4000	0.3390	
$ 8 Phenol-d5	99	5.753	5.753	0.000	94	7597	0.4000	0.3420	
$ 9 Nitrobenzene-d5	82	6.693	6.693	0.000	87	8029	0.4000	0.3441	
$ 10 2-Fluorobiphenyl	172	8.456	8.456	0.000	99	22336	0.4000	0.3844	
$ 11 2,4,6-Tribromophenol	330	9.872	9.872	0.000	1	1477	0.4000	0.2597	
$ 12 Terphenyl-d14	244	12.447	12.447	0.000	99	20793	0.4000	0.3536	
13 1,4-Dioxane	88	1.506	1.506	0.000	1	4028	0.4000	0.6469	M
14 N-Nitrosodimethylamine	74	2.077	2.077	0.000	78	2755	0.4000	0.3775	M
15 Pyridine	79	2.179	2.179	0.000	55	4763	0.4000	0.3404	M
21 Methyl methanesulfonate	80	4.428	4.428	0.000	80	3659	0.4000	0.3874	
25 Benzaldehyde	77	5.662	5.662	0.000	92	4775	0.4000	0.4056	
26 Phenol	94	5.763	5.763	0.000	0	9477	0.4000	0.3693	M
27 Aniline	93	5.785	5.785	0.000	0	10529	0.4000	0.3670	M
29 Bis(2-chloroethyl)ether	93	5.854	5.854	0.000	89	6456	0.4000	0.3817	
30 2-Chlorophenol	128	5.913	5.913	0.000	93	6648	0.4000	0.3430	
31 n-Decane	43	5.982	5.982	0.000	80	5475	0.4000	0.4014	
32 1,3-Dichlorobenzene	146	6.073	6.073	0.000	95	10025	0.4000	0.4031	
33 1,4-Dichlorobenzene	146	6.148	6.148	0.000	90	10439	0.4000	0.4073	
34 Benzyl alcohol	108	6.276	6.276	0.000	88	3871	0.4000	0.3307	
35 1,2-Dichlorobenzene	146	6.308	6.308	0.000	91	9806	0.4000	0.4025	
36 2-Methylphenol	108	6.388	6.388	0.000	94	6281	0.4000	0.3509	
37 Indene	116	6.399	6.399	0.000	87	14751	0.4000	0.3988	
38 2,2'-oxybis[1-chloropropan	45	6.421	6.421	0.000	86	6880	0.4000	0.4198	
39 N-Nitrosopyrrolidine	100	6.506	6.506	0.000	75	2114	0.4000	0.2620	
40 Acetophenone	105	6.538	6.538	0.000	88	12247	0.4000	0.4157	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.543	6.543	0.000	72	5281	0.4000	0.3776	
42 4-Methylphenol	108	6.543	6.543	0.000	89	6502	0.4000	0.3452	
45 Hexachloroethane	117	6.661	6.661	0.000	89	3756	0.4000	0.3628	
46 Nitrobenzene	77	6.714	6.714	0.000	85	8893	0.4000	0.3752	
48 Isophorone	82	6.949	6.949	0.000	97	13140	0.4000	0.3448	
49 2-Nitrophenol	139	7.035	7.035	0.000	91	2948	0.4000	0.2659	
50 2,4-Dimethylphenol	107	7.067	7.067	0.000	95	7800	0.4000	0.3323	
52 Benzoic acid	122	7.094	7.094	0.000	84	1937	0.4000	3.79	
53 Bis(2-chloroethoxy)methane	93	7.158	7.158	0.000	96	9073	0.4000	0.3843	
54 2,4-Dichlorophenol	162	7.270	7.270	0.000	94	6001	0.4000	0.3149	
56 1,2,4-Trichlorobenzene	180	7.361	7.361	0.000	92	9452	0.4000	0.3841	
58 Naphthalene	128	7.436	7.436	0.000	95	26801	0.4000	0.3947	
59 4-Chloroaniline	127	7.478	7.478	0.000	93	8602	0.4000	0.3228	
60 2,6-Dichlorophenol	162	7.494	7.494	0.000	93	6337	0.4000	0.3341	
62 Hexachlorobutadiene	225	7.564	7.564	0.000	92	6706	0.4000	0.3796	
64 Caprolactam	113	7.777	7.777	0.000	75	899	0.4000	0.1675	
67 4-Chloro-3-methylphenol	107	7.938	7.938	0.000	92	5959	0.4000	0.2931	
69 2-Methylnaphthalene	142	8.109	8.109	0.000	91	19063	0.4000	0.3841	
71 1-Methylnaphthalene	142	8.205	8.205	0.000	92	16127	0.4000	0.3732	
72 Hexachlorocyclopentadiene	237	8.269	8.269	0.000	93	6103	0.4000	0.3152	
73 1,2,4,5-Tetrachlorobenzene	216	8.274	8.274	0.000	95	11733	0.4000	0.4041	
74 2,4,6-Trichlorophenol	196	8.376	8.376	0.000	90	4413	0.4000	0.2911	
75 2,4,5-Trichlorophenol	196	8.408	8.408	0.000	92	4553	0.4000	0.2810	
76 1,1'-Biphenyl	154	8.552	8.552	0.000	95	23142	0.4000	0.3739	
77 2-Chloronaphthalene	162	8.579	8.579	0.000	96	18027	0.4000	0.3849	
79 2-Nitroaniline	65	8.659	8.659	0.000	77	3986	0.4000	0.3055	
82 Dimethyl phthalate	163	8.819	8.819	0.000	98	18479	0.4000	0.3599	
83 1,3-Dinitrobenzene	168	8.857	8.857	0.000	81	1810	0.4000	0.2278	
84 2,6-Dinitrotoluene	165	8.883	8.883	0.000	89	3390	0.4000	0.2955	
85 Acenaphthylene	152	8.985	8.985	0.000	98	26449	0.4000	0.3574	
86 3-Nitroaniline	138	9.049	9.049	0.000	42	2915	0.4000	0.2522	
88 Acenaphthene	153	9.150	9.150	0.000	94	19365	0.4000	0.3832	
87 2,4-Dinitrophenol	184	9.150	9.150	0.000	60	2912	0.8000	3.93	
89 4-Nitrophenol	109	9.182	9.182	0.000	91	3092	0.8000	0.3723	
91 2,4-Dinitrotoluene	165	9.273	9.273	0.000	90	3550	0.4000	0.2196	
93 Dibenzofuran	168	9.311	9.311	0.000	96	27355	0.4000	0.3754	
95 2,3,5,6-Tetrachlorophenol	232	9.385	9.385	0.000	84	3767	0.4000	0.2408	
96 2,3,4,6-Tetrachlorophenol	232	9.423	9.423	0.000	67	4265	0.4000	0.2750	
97 2-Naphthylamine	143	9.455	9.455	0.000	95	12882	0.4000	0.2802	
98 Diethyl phthalate	149	9.487	9.487	0.000	97	18094	0.4000	0.3457	
99 Hexadecane	57	9.498	9.498	0.000	94	9646	0.4000	0.3541	
100 4-Chlorophenyl phenyl ethe	204	9.621	9.621	0.000	90	12125	0.4000	0.3836	
101 4-Nitroaniline	138	9.631	9.631	0.000	81	2918	0.4000	0.2282	
103 Fluorene	166	9.642	9.642	0.000	97	21593	0.4000	0.3622	
104 4,6-Dinitro-2-methylphenol	198	9.663	9.663	0.000	89	5532	0.8000	0.5400	
105 N-Nitrosodiphenylamine	169	9.733	9.733	0.000	64	28936	0.8000	0.6898	
90 1,2-Diphenylhydrazine	77	9.775	9.775	0.000	97	20184	0.4000	0.3555	
57 Azobenzene	77	9.775	9.775	0.000	97	20184	0.4000	0.3555	
110 4-Bromophenyl phenyl ether	248	10.091	10.091	0.000	65	5906	0.4000	0.3516	
112 Hexachlorobenzene	284	10.181	10.181	0.000	86	5740	0.4000	0.3585	
113 Atrazine	200	10.213	10.213	0.000	87	4939	0.4000	0.3034	
116 Pentachlorophenol	266	10.358	10.358	0.000	88	8469	0.8000	0.7813	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.368	10.368	0.000	94	10036	0.4000	0.3401	
121 Phenanthrene	178	10.577	10.577	0.000	95	34039	0.4000	0.3813	
122 Anthracene	178	10.630	10.630	0.000	98	28463	0.4000	0.3243	
124 Carbazole	167	10.774	10.774	0.000	96	24325	0.4000	0.3210	
126 Di-n-butyl phthalate	149	11.100	11.100	0.000	99	22362	0.4000	0.2647	
131 Fluoranthene	202	11.955	11.955	0.000	97	31499	0.4000	0.3231	
132 Benzidine	184	12.094	12.094	0.000	1	4323	0.4000	2.34	
133 Pyrene	202	12.270	12.270	0.000	97	32613	0.4000	0.3549	
138 Butyl benzyl phthalate	149	13.178	13.178	0.000	92	7098	0.4000	0.2307	
144 3,3'-Dichlorobenzidine	252	14.151	14.151	0.000	1	5358	0.4000	1.19	
145 Bis(2-ethylhexyl) phthalat	149	14.215	14.215	0.000	29	8337	0.4000	1.14	
146 Benzo[a]anthracene	228	14.226	14.226	0.000	97	32279	0.4000	0.3522	
147 Chrysene	228	14.290	14.290	0.000	97	31152	0.4000	0.3640	
150 Di-n-octyl phthalate	149	15.497	15.497	0.000	0	19083	0.4000	1.77	M
151 7,12-Dimethylbenz(a)anthra	256	16.309	16.309	0.000	0	10216	0.4000	0.2882	M
152 Benzo[b]fluoranthene	252	16.325	16.325	0.000	95	27241	0.4000	0.3319	M
153 Benzo[k]fluoranthene	252	16.384	16.384	0.000	96	26338	0.4000	0.3200	M
219 Benzo[e]pyrene	252	16.886	16.886	0.000	0	24760	0.4000	0.3300	
154 Benzo[a]pyrene	252	16.987	16.987	0.000	78	25684	0.4000	0.3373	M
157 Indeno[1,2,3-cd]pyrene	276	19.402	19.402	0.000	87	21988	0.4000	0.2769	M
158 Dibenz(a,h)anthracene	278	19.424	19.424	0.000	79	18145	0.4000	0.2819	M
159 Benzo[g,h,i]perylene	276	20.049	20.049	0.000	55	20951	0.4000	0.3104	M
S 197 Methyl Phenols,Total	108				0		0.8000	0.6961	
S 199 Total Cresols	108				0		0.8000	0.6961	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD0.4i_00009 Amount Added: 1.00 Units: mL

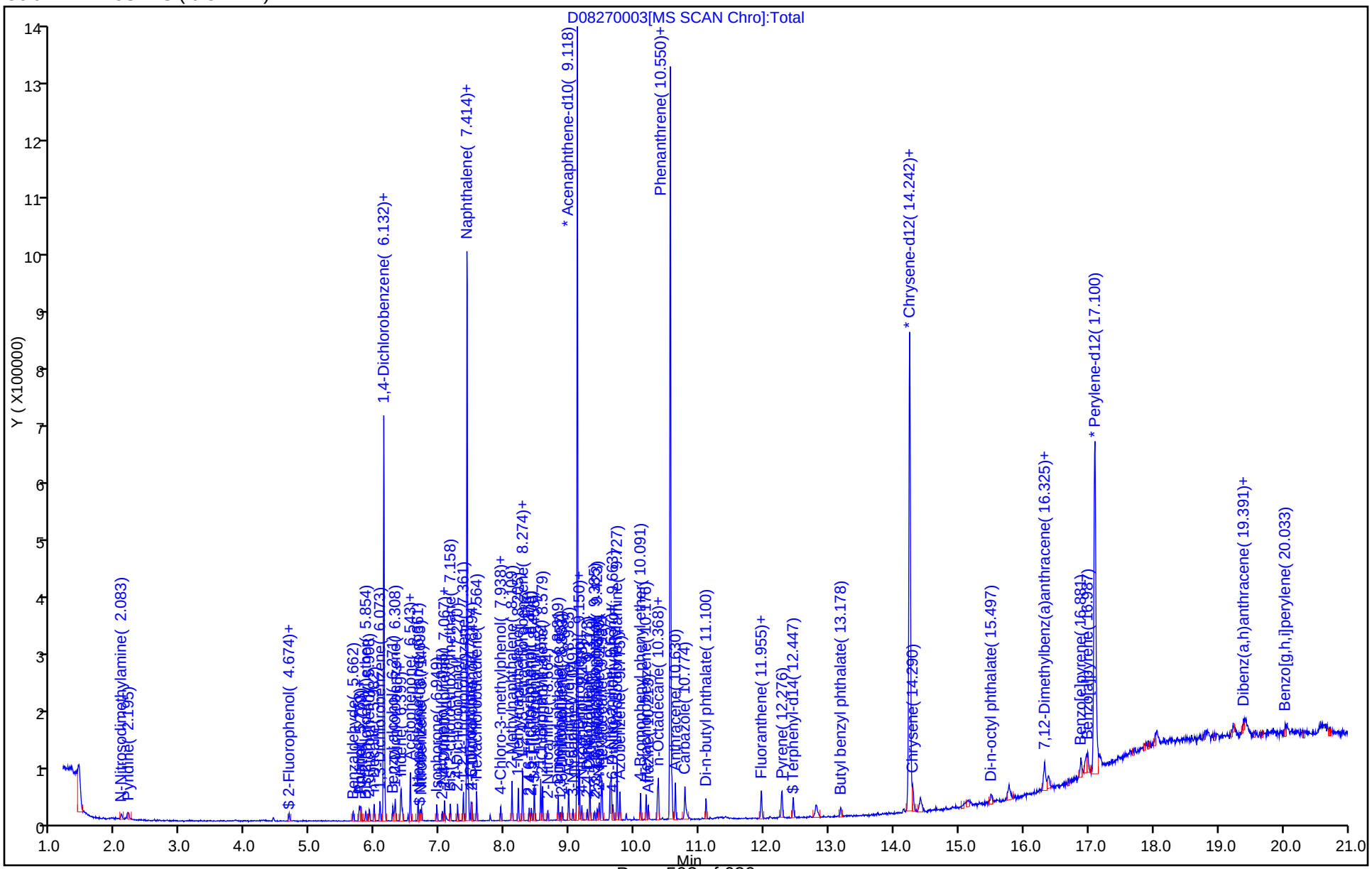
Report Date: 27-Aug-2015 10:14:52 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D

Injection Date:	27-Aug-2015 05:25:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

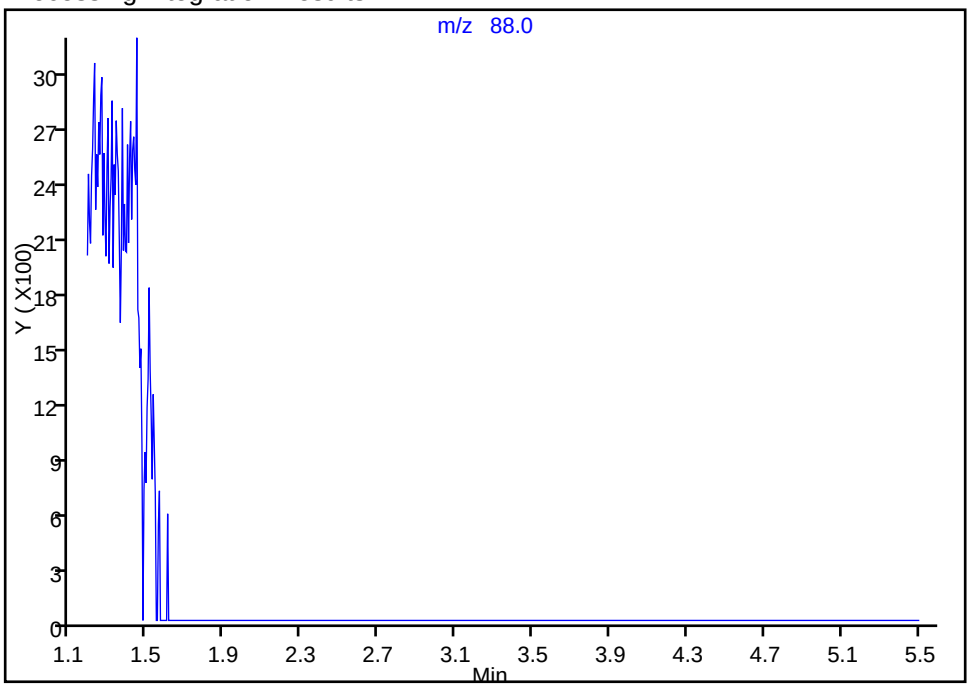
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

13 1,4-Dioxane, CAS: 123-91-1

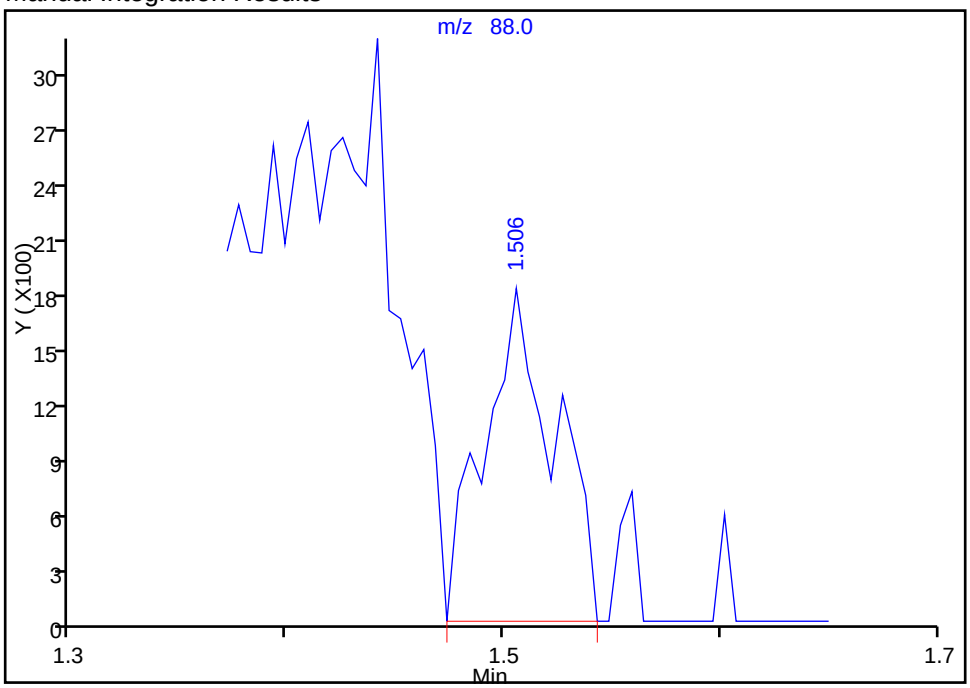
Not Detected
Expected RT: 1.51

Processing Integration Results



Manual Integration Results

RT: 1.51
Area: 4028
Amount: 0.646883
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

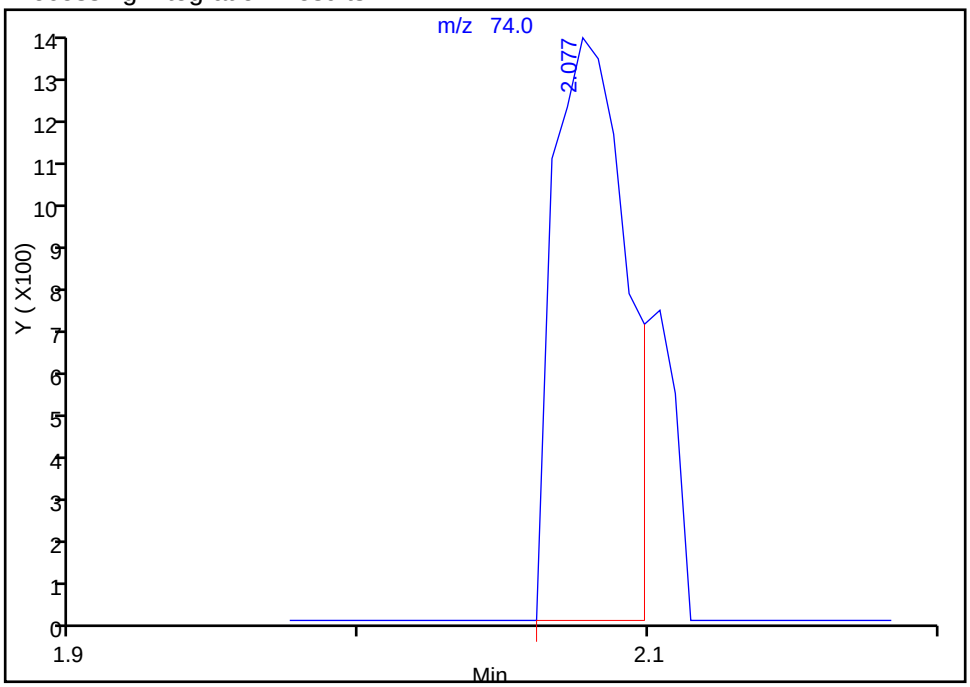
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

14 N-Nitrosodimethylamine, CAS: 62-75-9

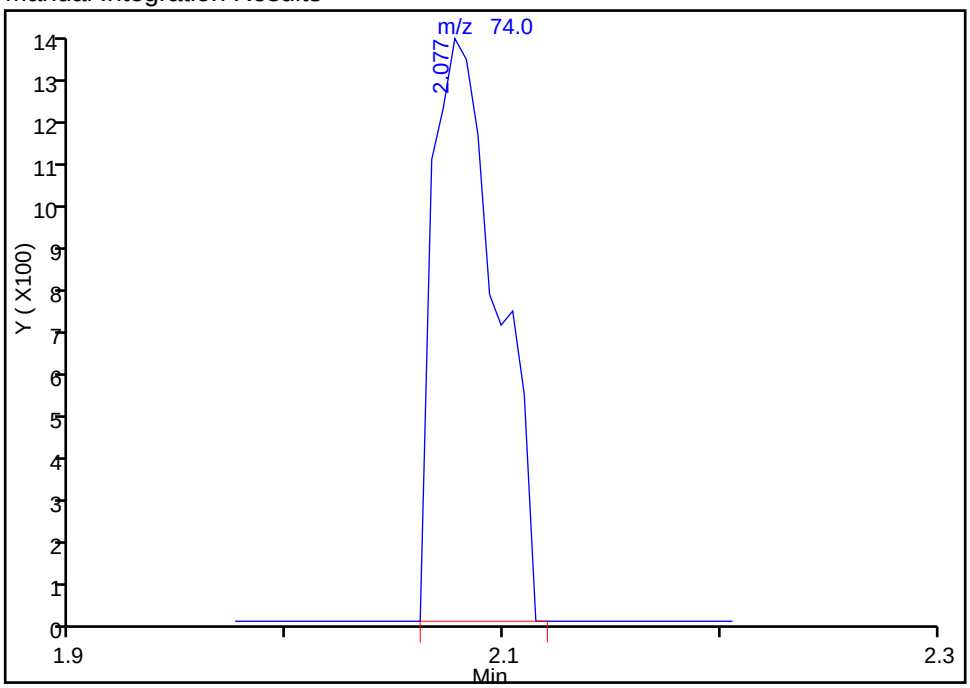
Processing Integration Results

RT: 2.08
Area: 2362
Amount: 0.343303
Amount Units: ng



Manual Integration Results

RT: 2.08
Area: 2755
Amount: 0.377483
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

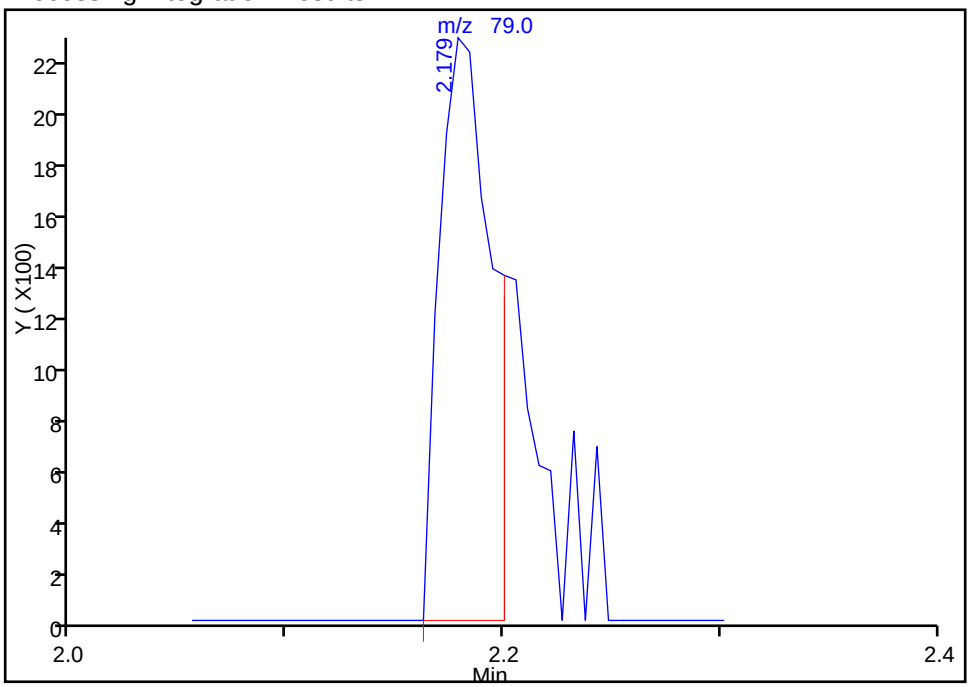
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

15 Pyridine, CAS: 110-86-1

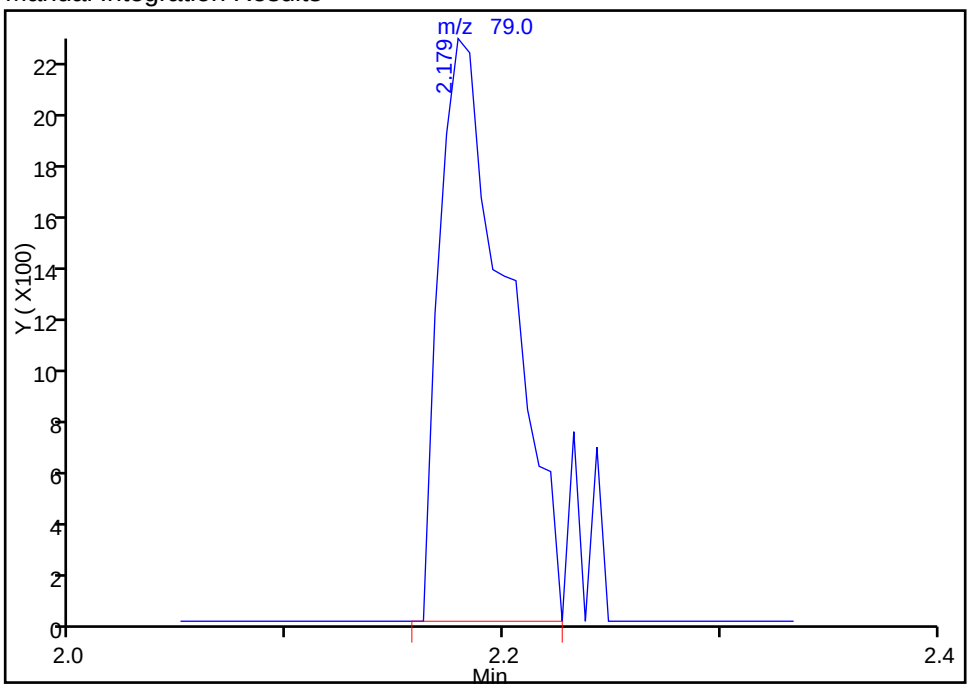
Processing Integration Results

RT: 2.18
Area: 3721
Amount: 0.290900
Amount Units: ng



Manual Integration Results

RT: 2.18
Area: 4763
Amount: 0.340350
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

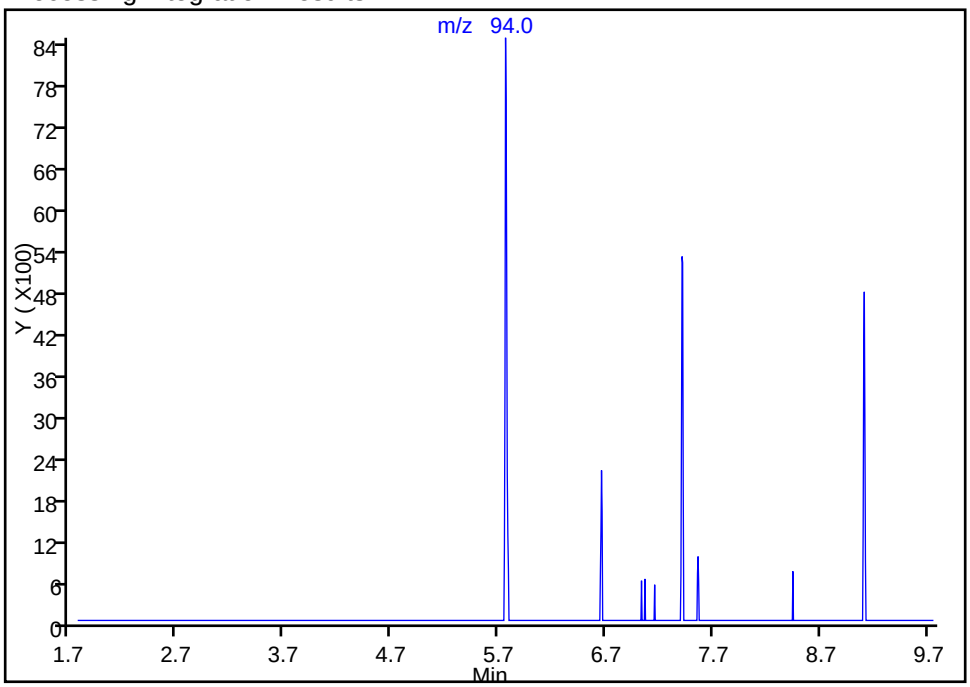
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

26 Phenol, CAS: 108-95-2

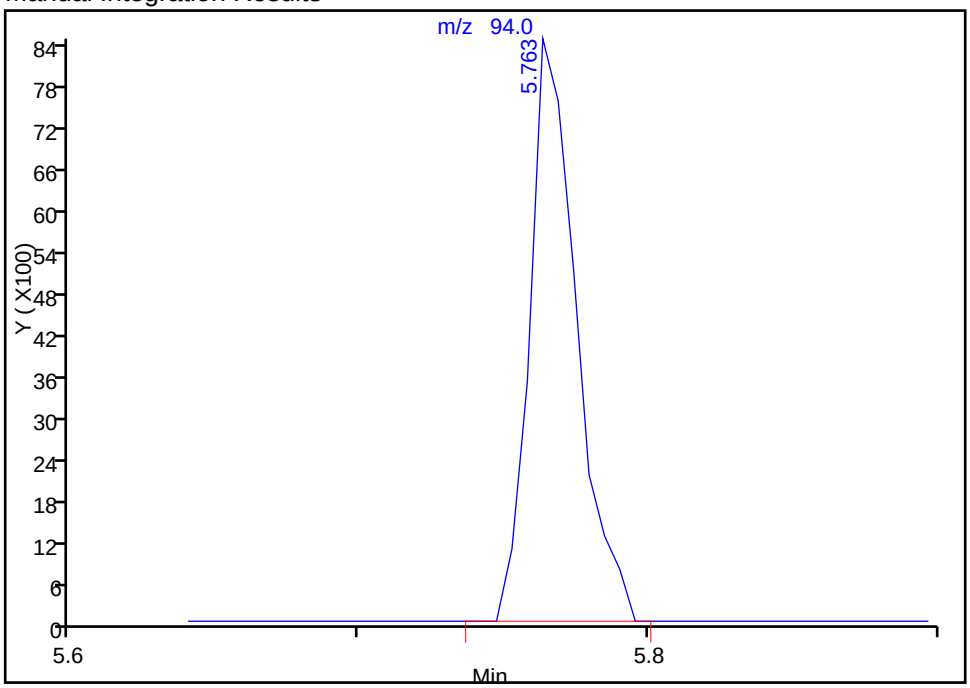
Not Detected
Expected RT: 5.76

Processing Integration Results



Manual Integration Results

RT: 5.76
Area: 9477
Amount: 0.369259
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

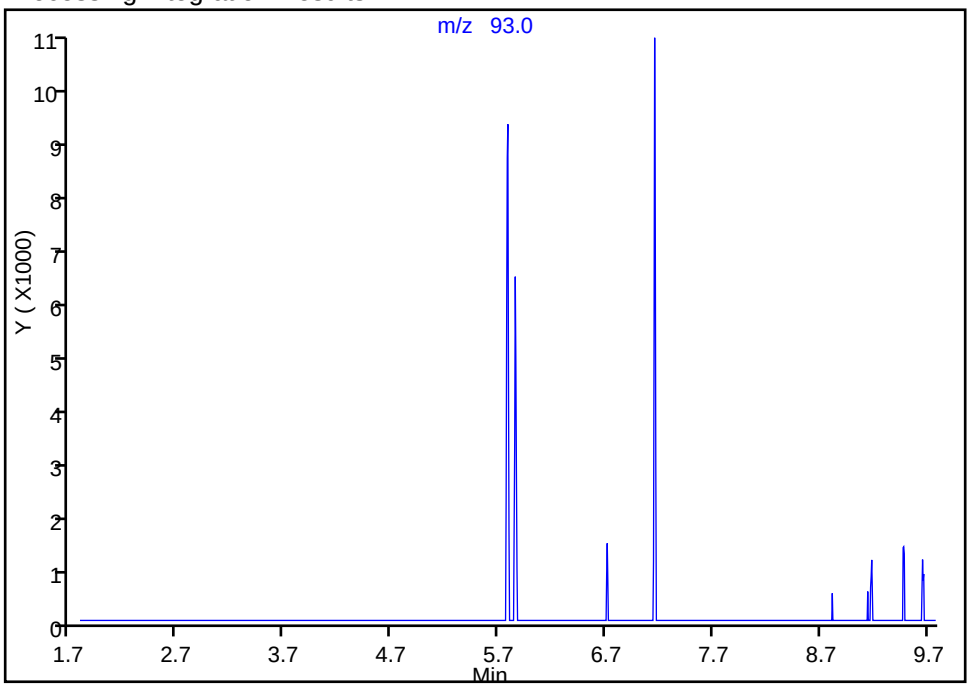
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

27 Aniline, CAS: 62-53-3

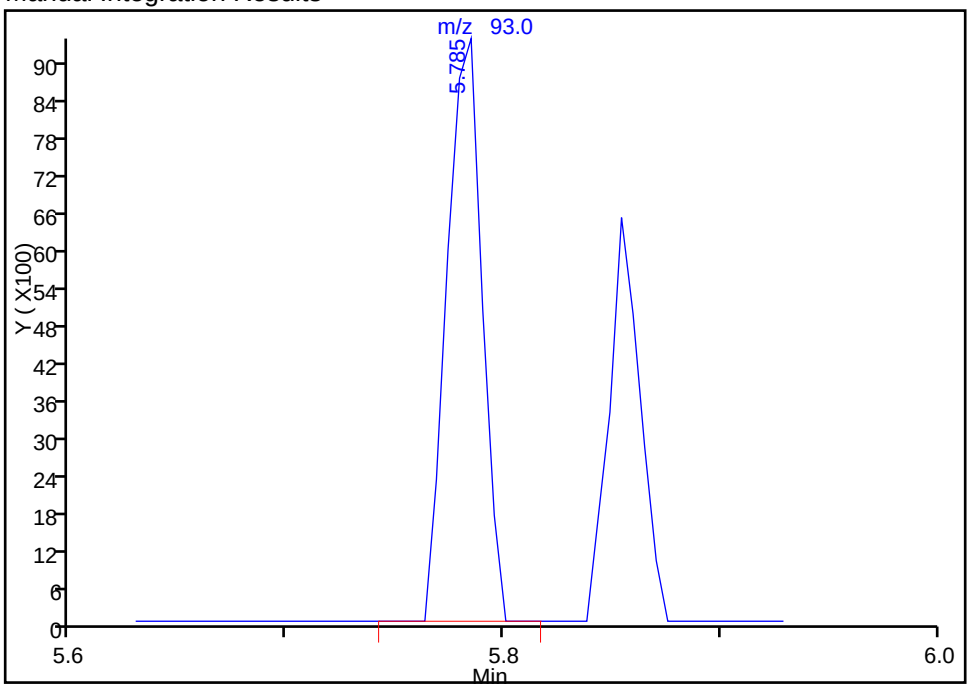
Not Detected
Expected RT: 5.78

Processing Integration Results



Manual Integration Results

RT: 5.78
Area: 10529
Amount: 0.367010
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

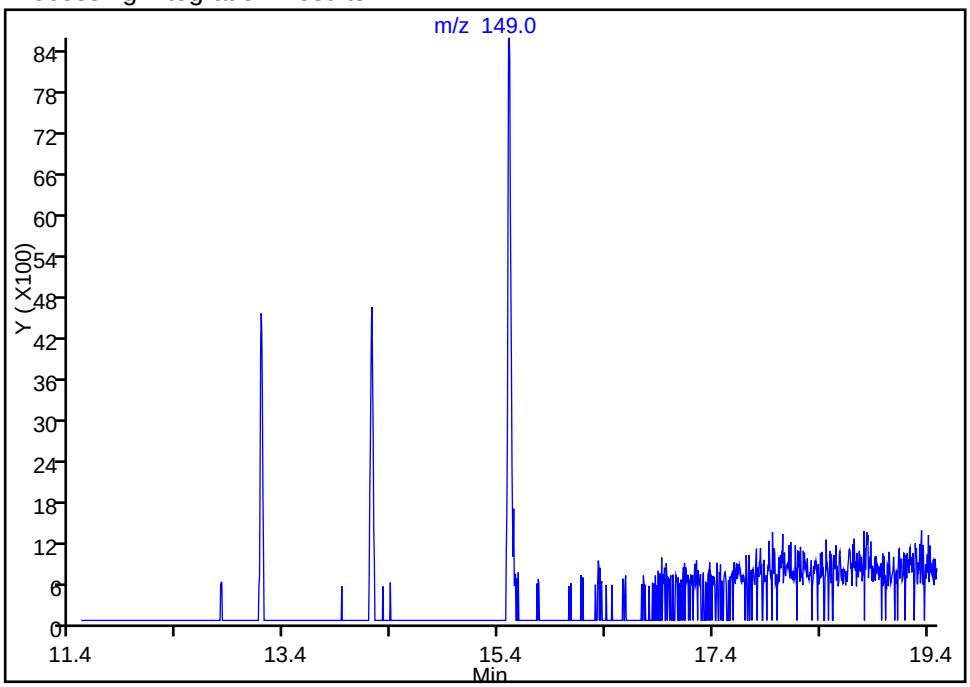
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

150 Di-n-octyl phthalate, CAS: 117-84-0

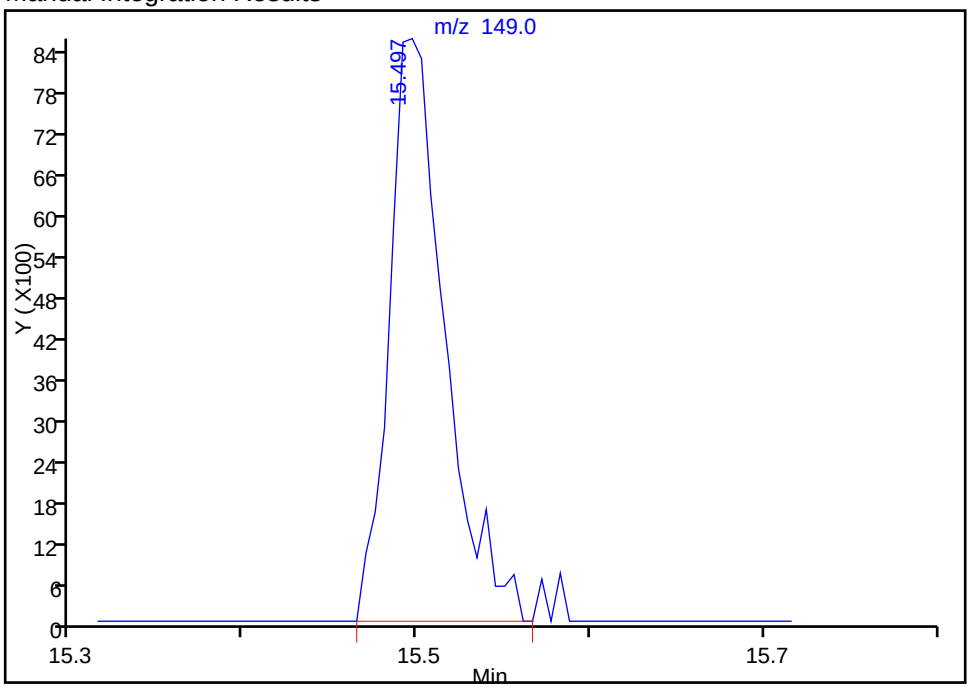
Not Detected
Expected RT: 15.50

Processing Integration Results



Manual Integration Results

RT: 15.50
Area: 19083
Amount: 1.769964
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

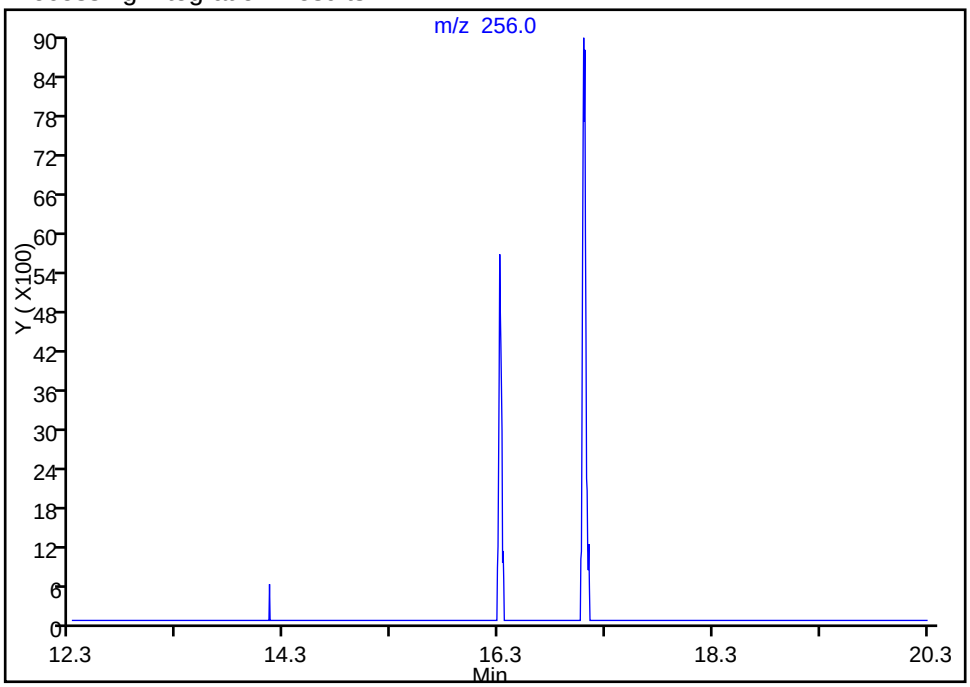
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

151 7,12-Dimethylbenz(a)anthracene, CAS: 57-97-6

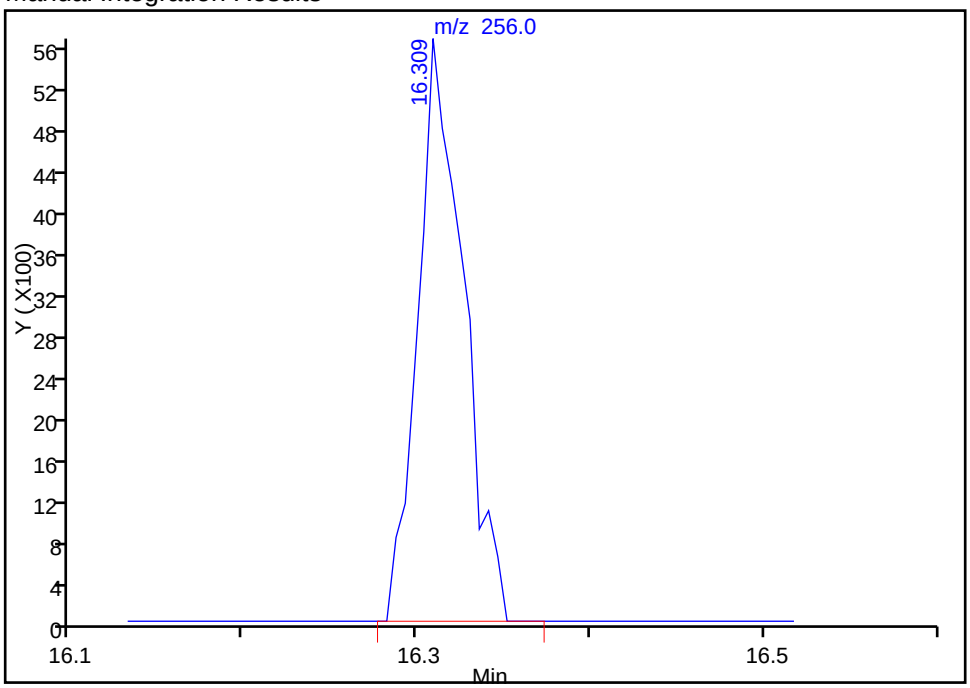
Not Detected
Expected RT: 16.31

Processing Integration Results



Manual Integration Results

RT: 16.31
Area: 10216
Amount: 0.288192
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

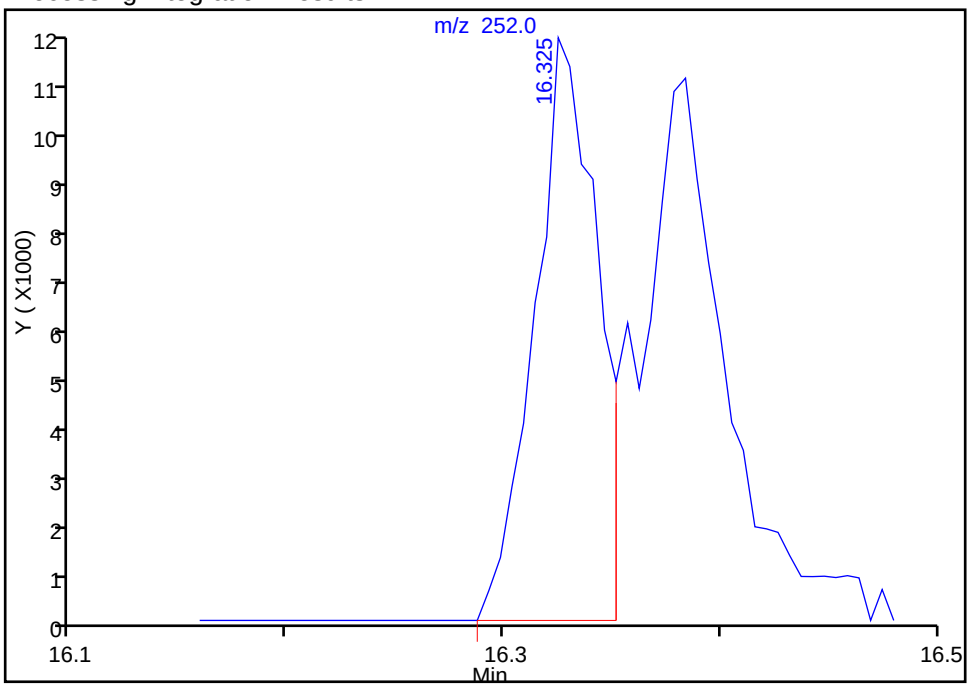
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

152 Benzo[b]fluoranthene, CAS: 205-99-2

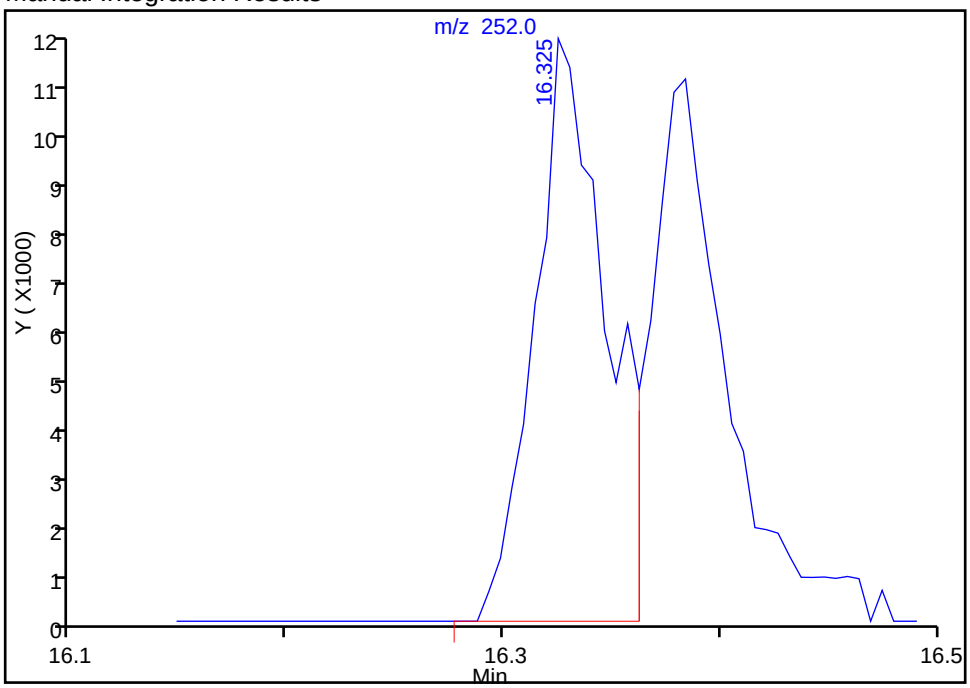
Processing Integration Results

RT: 16.33
Area: 23824
Amount: 0.321240
Amount Units: ng



Manual Integration Results

RT: 16.33
Area: 27241
Amount: 0.331922
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Split an Integrated Peak
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

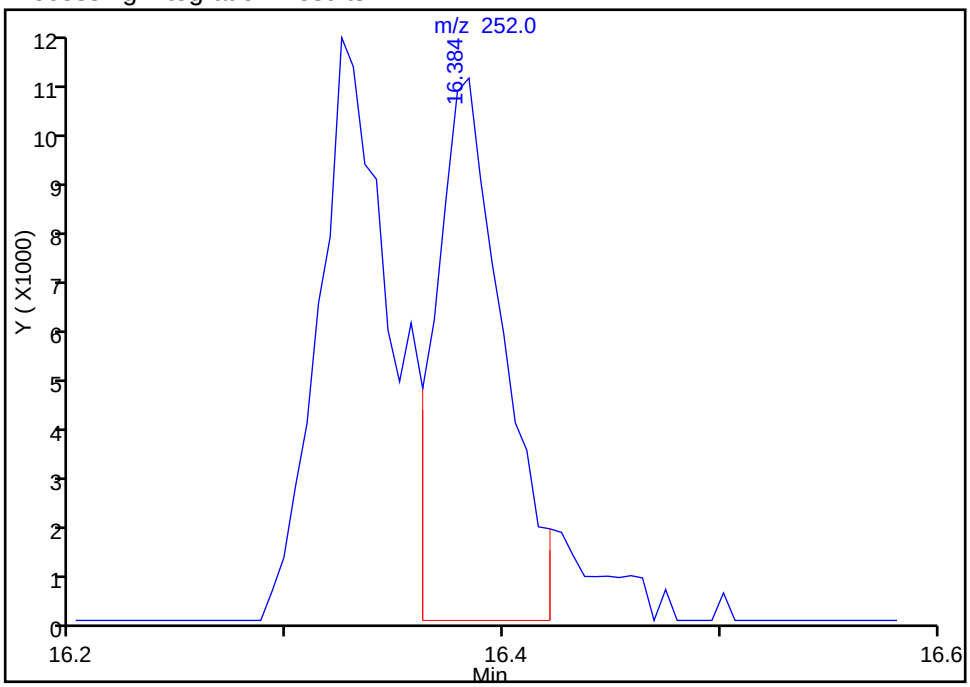
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

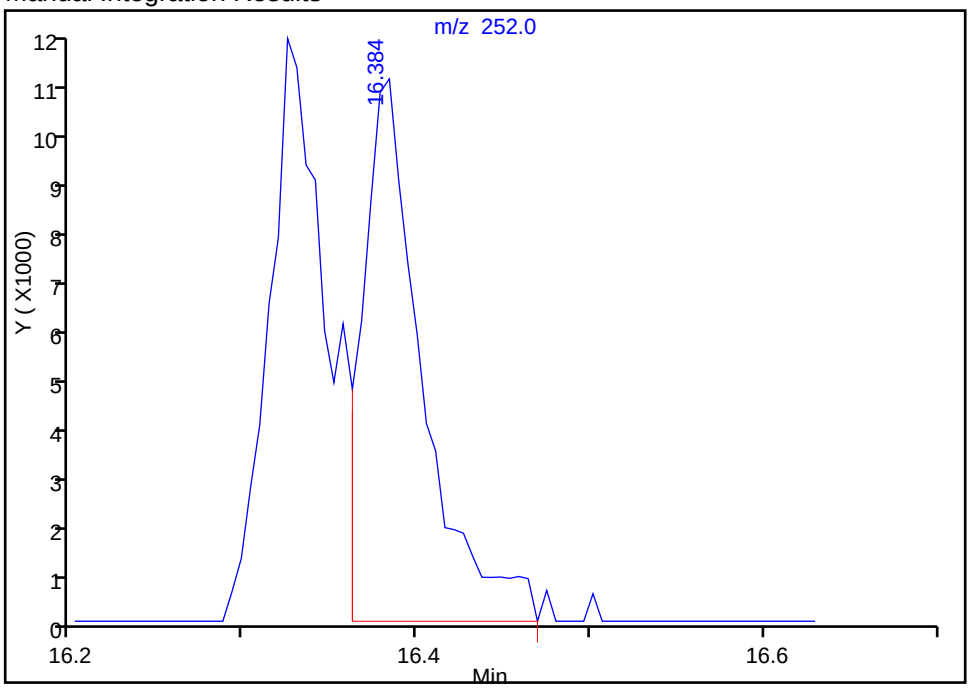
Processing Integration Results

RT: 16.38
Area: 23656
Amount: 0.312122
Amount Units: ng



Manual Integration Results

RT: 16.38
Area: 26338
Amount: 0.319976
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Split an Integrated Peak
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

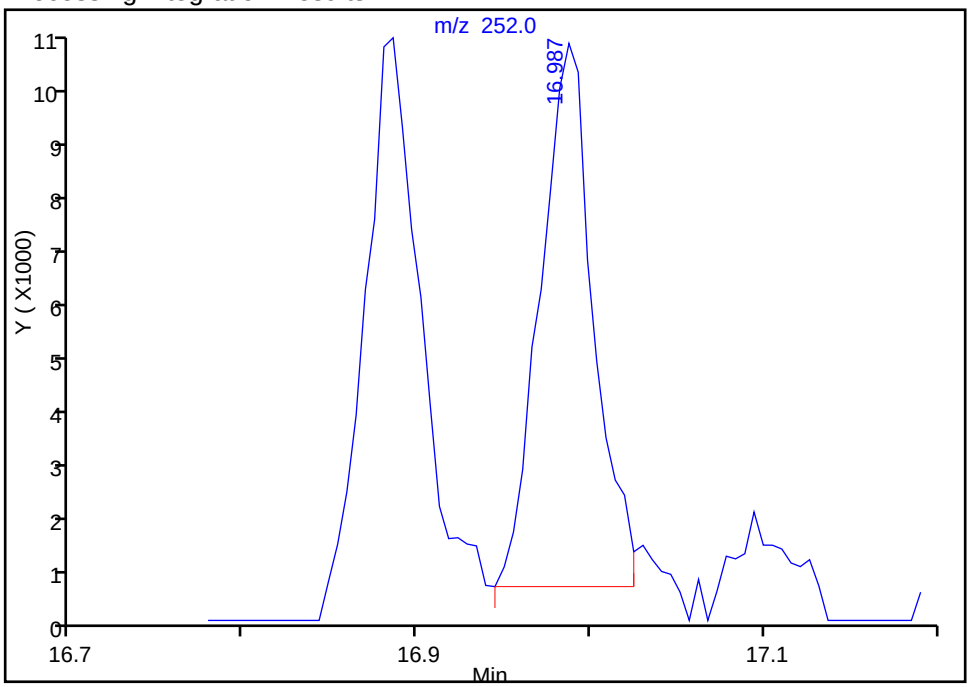
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

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

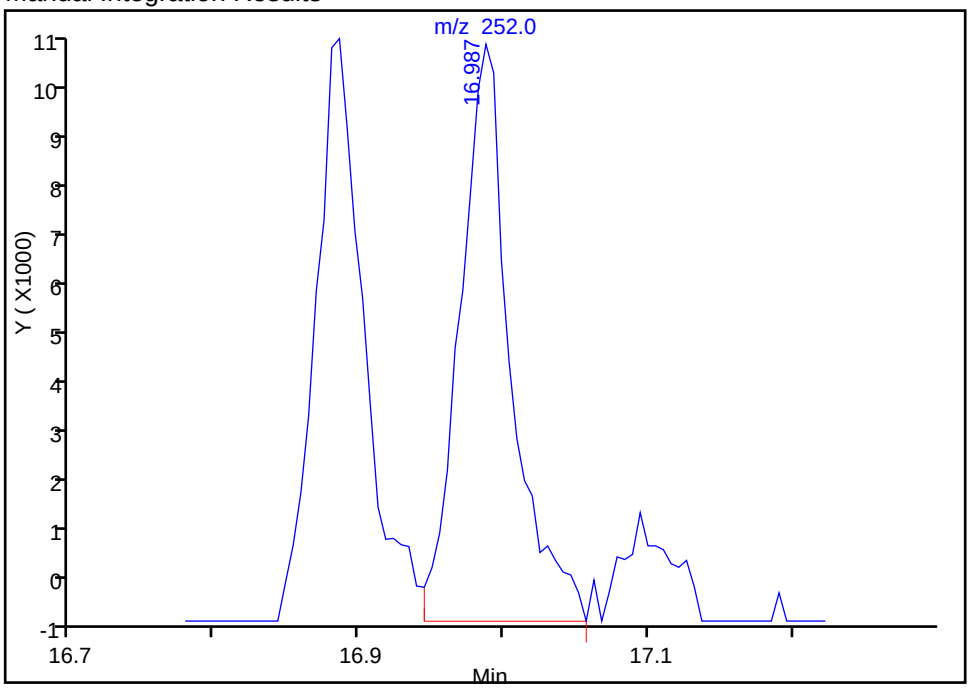
Processing Integration Results

RT: 16.99
Area: 21012
Amount: 0.312518
Amount Units: ng



Manual Integration Results

RT: 16.99
Area: 25684
Amount: 0.337338
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

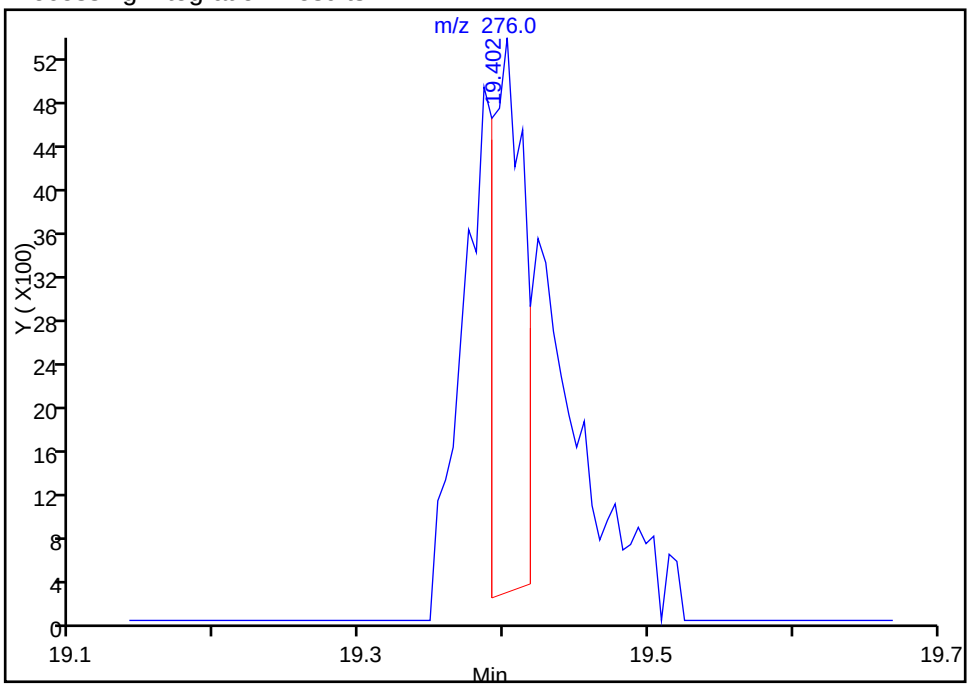
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

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

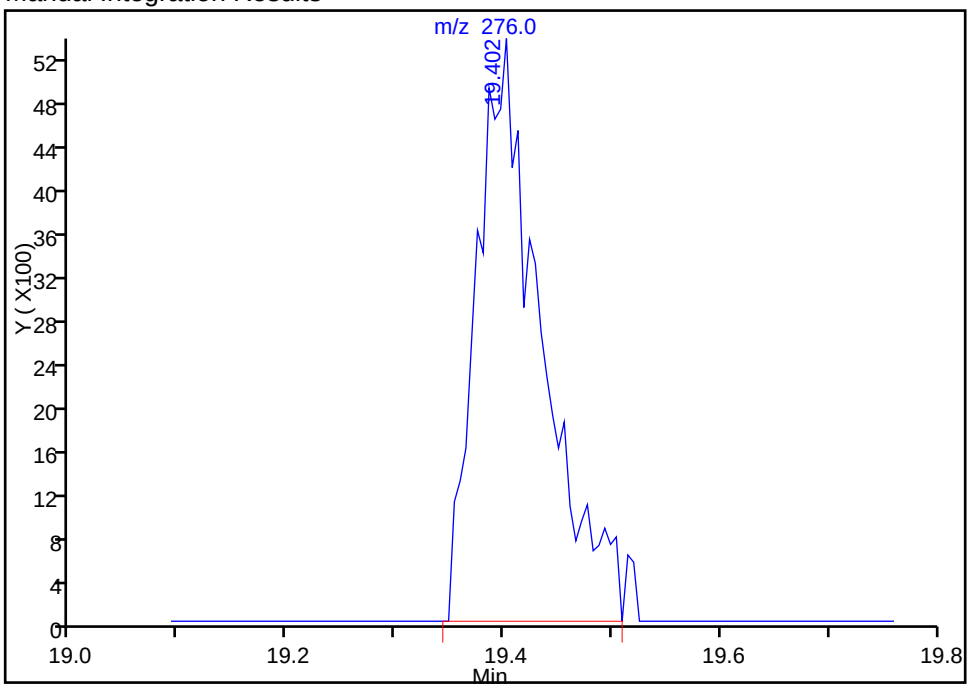
Processing Integration Results

RT: 19.40
Area: 7824
Amount: 0.134992
Amount Units: ng



Manual Integration Results

RT: 19.40
Area: 21988
Amount: 0.276912
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

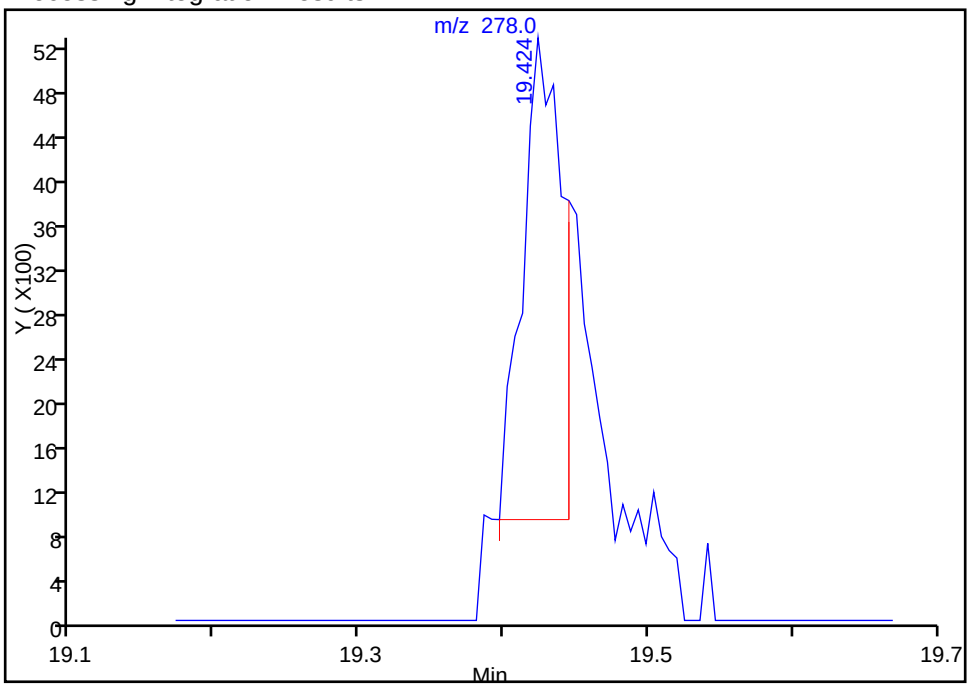
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D				
Injection Date:	27-Aug-2015 05:25:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

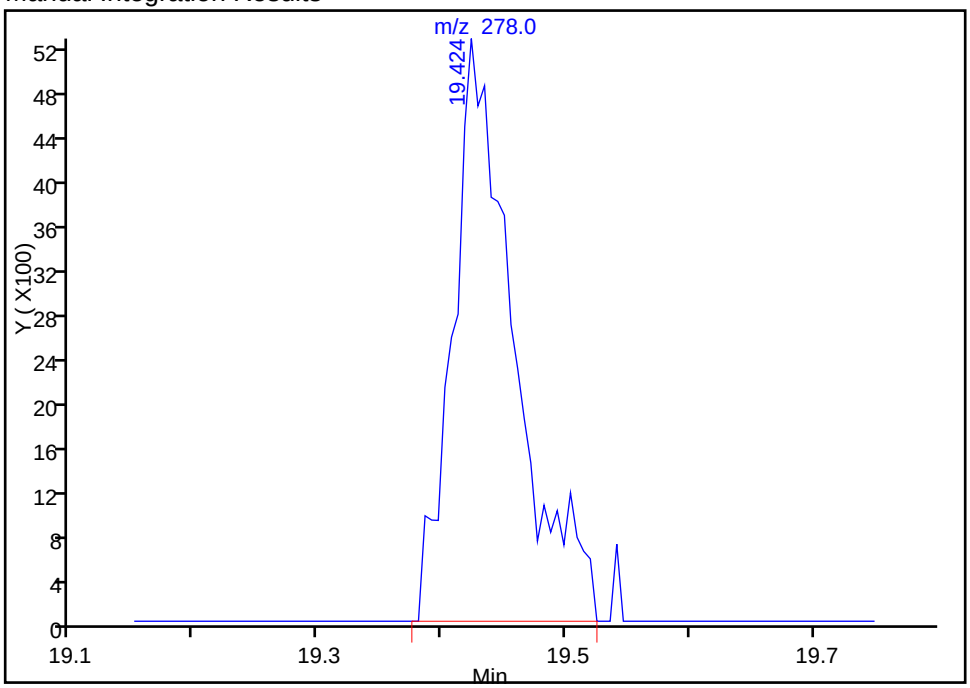
Processing Integration Results

RT: 19.42
Area: 8406
Amount: 0.178213
Amount Units: ng



Manual Integration Results

RT: 19.42
Area: 18145
Amount: 0.281910
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

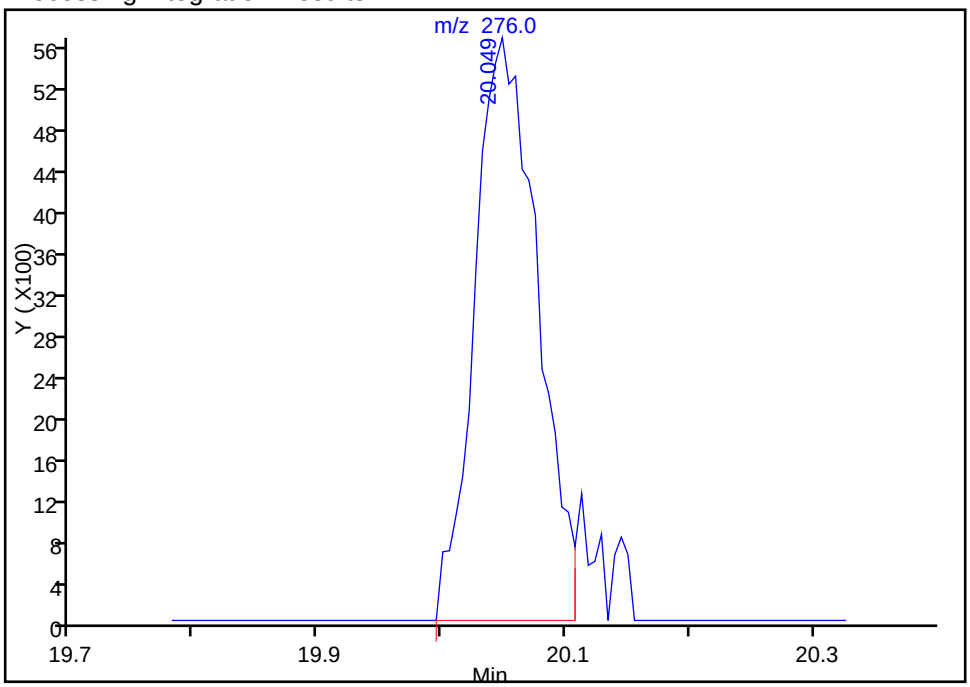
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270003.D
Injection Date: 27-Aug-2015 05:25:30 Instrument ID: CH732
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

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

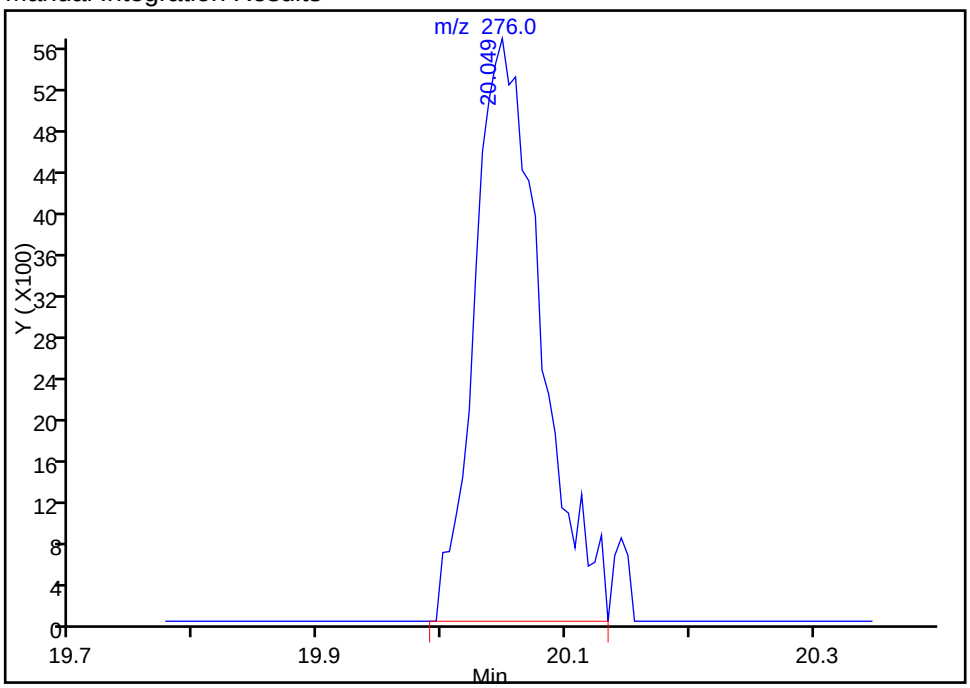
Processing Integration Results

RT: 20.05
Area: 19939
Amount: 0.336649
Amount Units: ng



Manual Integration Results

RT: 20.05
Area: 20951
Amount: 0.310396
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:32:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270004.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Aug-2015 05:51:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-004
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:15:04 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 07:33:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.132	6.132	0.000	97	115257	8.00	8.00	
* 2 Naphthalene-d8	136	7.419	7.414	0.005	99	455485	8.00	8.00	
* 3 Acenaphthene-d10	164	9.124	9.118	0.006	92	300311	8.00	8.00	
* 4 Phenanthrene-d10	188	10.561	10.550	0.011	98	545478	8.00	8.00	
* 5 Chrysene-d12	240	14.268	14.242	0.026	97	567269	8.00	8.00	
* 6 Perylene-d12	264	17.126	17.100	0.026	97	463863	8.00	8.00	
$ 7 2-Fluorophenol	112	4.663	4.674	-0.011	92	30197	2.00	1.88	
$ 8 Phenol-d5	99	5.753	5.753	0.000	96	42704	2.00	1.97	
$ 9 Nitrobenzene-d5	82	6.698	6.693	0.005	88	44602	2.00	1.96	
$ 10 2-Fluorobiphenyl	172	8.461	8.456	0.005	100	108540	2.00	1.95	
$ 11 2,4,6-Tribromophenol	330	9.882	9.872	0.010	85	8813	2.00	1.63	
$ 12 Terphenyl-d14	244	12.462	12.447	0.015	99	112562	2.00	1.91	
13 1,4-Dioxane	88	1.484	1.506	-0.022	51	15431	2.00	2.53	M
14 N-Nitrosodimethylamine	74	2.056	2.077	-0.021	90	13638	2.00	1.91	
15 Pyridine	79	2.136	2.179	-0.043	95	25782	2.00	1.88	
21 Methyl methanesulfonate	80	4.417	4.428	-0.011	89	18025	2.00	1.95	
25 Benzaldehyde	77	5.656	5.662	-0.006	94	23586	2.00	2.05	
26 Phenol	94	5.763	5.763	0.000	98	50708	2.00	2.02	
27 Aniline	93	5.779	5.785	-0.006	61	54991	2.00	1.96	
29 Bis(2-chloroethyl)ether	93	5.854	5.854	0.000	97	32933	2.00	1.99	
30 2-Chlorophenol	128	5.913	5.913	0.000	95	35436	2.00	1.87	
31 n-Decane	43	5.982	5.982	0.000	82	26372	2.00	1.98	
32 1,3-Dichlorobenzene	146	6.073	6.073	0.000	95	46532	2.00	1.91	
33 1,4-Dichlorobenzene	146	6.153	6.148	0.005	94	47433	2.00	1.89	
34 Benzyl alcohol	108	6.271	6.276	-0.005	89	21318	2.00	1.86	
35 1,2-Dichlorobenzene	146	6.308	6.308	0.000	94	47026	2.00	1.97	
36 2-Methylphenol	108	6.394	6.388	0.006	95	33286	2.00	1.90	
37 Indene	116	6.404	6.399	0.005	88	72008	2.00	1.99	
38 2,2'-oxybis[1-chloropropan	45	6.420	6.421	0.000	86	31543	2.00	1.97	
39 N-Nitrosopyrrolidine	100	6.506	6.506	0.000	93	15039	2.00	1.91	
40 Acetophenone	105	6.543	6.538	0.005	86	57807	2.00	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.543	6.543	0.000	66	27492	2.00	2.01	
42 4-Methylphenol	108	6.549	6.543	0.006	90	37047	2.00	2.01	
45 Hexachloroethane	117	6.661	6.661	0.000	90	19815	2.00	1.96	
46 Nitrobenzene	77	6.714	6.714	0.000	86	45515	2.00	1.97	
48 Isophorone	82	6.955	6.949	0.006	99	68049	2.00	1.84	
49 2-Nitrophenol	139	7.040	7.035	0.005	97	17822	2.00	1.65	
50 2,4-Dimethylphenol	107	7.072	7.067	0.005	97	44452	2.00	1.95	
52 Benzoic acid	122	7.110	7.094	0.016	83	9442	2.00	4.41	
53 Bis(2-chloroethoxy)methane	93	7.163	7.158	0.005	98	45950	2.00	2.00	
54 2,4-Dichlorophenol	162	7.275	7.270	0.005	94	33619	2.00	1.81	
56 1,2,4-Trichlorobenzene	180	7.366	7.361	0.005	94	46669	2.00	1.95	
58 Naphthalene	128	7.441	7.436	0.005	98	130703	2.00	1.98	
59 4-Chloroaniline	127	7.484	7.478	0.006	95	49598	2.00	1.91	
60 2,6-Dichlorophenol	162	7.500	7.494	0.006	96	34843	2.00	1.89	
62 Hexachlorobutadiene	225	7.569	7.564	0.005	95	33197	2.00	1.93	
64 Caprolactam	113	7.783	7.777	0.006	85	6905	2.00	1.32	
67 4-Chloro-3-methylphenol	107	7.943	7.938	0.005	93	34951	2.00	1.77	
69 2-Methylnaphthalene	142	8.119	8.109	0.010	91	91938	2.00	1.90	
71 1-Methylnaphthalene	142	8.215	8.205	0.010	92	82207	2.00	1.96	
72 Hexachlorocyclopentadiene	237	8.274	8.269	0.005	96	32456	2.00	1.75	
73 1,2,4,5-Tetrachlorobenzene	216	8.280	8.274	0.006	97	52966	2.00	1.90	
74 2,4,6-Trichlorophenol	196	8.381	8.376	0.005	93	25464	2.00	1.75	
75 2,4,5-Trichlorophenol	196	8.418	8.408	0.010	94	27283	2.00	1.75	
76 1,1'-Biphenyl	154	8.563	8.552	0.011	95	116750	2.00	1.97	
77 2-Chloronaphthalene	162	8.589	8.579	0.010	97	88562	2.00	1.97	
79 2-Nitroaniline	65	8.670	8.659	0.011	78	21518	2.00	1.72	
82 Dimethyl phthalate	163	8.830	8.819	0.011	97	90214	2.00	1.83	
83 1,3-Dinitrobenzene	168	8.862	8.857	0.005	87	11660	2.00	1.53	
84 2,6-Dinitrotoluene	165	8.889	8.883	0.006	93	19994	2.00	1.82	
85 Acenaphthylene	152	8.990	8.985	0.005	99	134052	2.00	1.89	
86 3-Nitroaniline	138	9.059	9.049	0.010	91	17786	2.00	1.60	
88 Acenaphthene	153	9.156	9.150	0.006	94	95586	2.00	1.97	
87 2,4-Dinitrophenol	184	9.161	9.150	0.011	60	16271	4.00	5.39	
89 4-Nitrophenol	109	9.193	9.182	0.011	93	24800	4.00	3.11	
91 2,4-Dinitrotoluene	165	9.279	9.273	0.006	92	25934	2.00	1.67	
93 Dibenzofuran	168	9.321	9.311	0.010	96	135973	2.00	1.94	
95 2,3,5,6-Tetrachlorophenol	232	9.391	9.385	0.006	92	23553	2.00	1.57	
96 2,3,4,6-Tetrachlorophenol	232	9.433	9.423	0.010	72	27470	2.00	1.85	
97 2-Naphthylamine	143	9.460	9.455	0.005	95	78575	2.00	1.78	
98 Diethyl phthalate	149	9.498	9.487	0.011	97	94651	2.00	1.88	
99 Hexadecane	57	9.508	9.498	0.010	93	54531	2.00	2.06	
100 4-Chlorophenyl phenyl ethe	204	9.631	9.621	0.011	89	59739	2.00	1.97	
101 4-Nitroaniline	138	9.642	9.631	0.011	65	20389	2.00	1.66	
103 Fluorene	166	9.647	9.642	0.005	94	112380	2.00	1.96	
104 4,6-Dinitro-2-methylphenol	198	9.674	9.663	0.011	89	28568	4.00	2.93	
105 N-Nitrosodiphenylamine	169	9.738	9.733	0.005	62	158113	4.00	3.96	
90 1,2-Diphenylhydrazine	77	9.781	9.775	0.006	98	111645	2.00	2.06	
57 Azobenzene	77	9.781	9.775	0.006	98	111645	2.00	2.06	
110 4-Bromophenyl phenyl ether	248	10.101	10.091	0.010	67	30206	2.00	1.89	
112 Hexachlorobenzene	284	10.187	10.181	0.006	92	30125	2.00	1.97	
113 Atrazine	200	10.219	10.213	0.006	94	27333	2.00	1.76	
116 Pentachlorophenol	266	10.363	10.358	0.005	89	40150	4.00	3.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.379	10.368	0.011	95	53801	2.00	1.86	
121 Phenanthrene	178	10.587	10.577	0.010	98	165744	2.00	1.95	
122 Anthracene	178	10.641	10.630	0.011	98	158191	2.00	1.89	
124 Carbazole	167	10.785	10.774	0.011	96	134759	2.00	1.87	
126 Di-n-butyl phthalate	149	11.116	11.100	0.016	100	131834	2.00	1.64	
131 Fluoranthene	202	11.971	11.955	0.016	97	171635	2.00	1.85	
132 Benzidine	184	12.105	12.094	0.011	99	34263	2.00	3.06	
133 Pyrene	202	12.292	12.270	0.022	97	177971	2.00	1.93	
138 Butyl benzyl phthalate	149	13.200	13.178	0.022	96	45550	2.00	1.48	
144 3,3'-Dichlorobenzidine	252	14.172	14.151	0.021	74	34660	2.00	2.14	
145 Bis(2-ethylhexyl) phthalat	149	14.231	14.215	0.016	96	55029	2.00	2.09	
146 Benzo[a]anthracene	228	14.247	14.226	0.021	98	173982	2.00	1.89	
147 Chrysene	228	14.316	14.290	0.026	97	166184	2.00	1.94	
150 Di-n-octyl phthalate	149	15.524	15.497	0.027	100	85907	2.00	2.61	
151 7,12-Dimethylbenz(a)anthra	256	16.346	16.309	0.037	90	59662	2.00	1.71	
152 Benzo[b]fluoranthene	252	16.352	16.325	0.027	97	143186	2.00	1.78	
153 Benzo[k]fluoranthene	252	16.410	16.384	0.026	99	154273	2.00	1.91	
219 Benzo[e]pyrene	252	16.913	16.886	0.027	0	133409	2.00	1.81	
154 Benzo[a]pyrene	252	17.014	16.987	0.027	77	131081	2.00	1.75	
157 Indeno[1,2,3-cd]pyrene	276	19.434	19.402	0.032	97	129412	2.00	1.66	M
158 Dibenz(a,h)anthracene	278	19.461	19.424	0.037	90	103942	2.00	1.64	M
159 Benzo[g,h,i]perylene	276	20.086	20.049	0.037	98	108456	2.00	1.64	
S 197 Methyl Phenols,Total	108				0		4.00	3.91	
S 199 Total Cresols	108				0		4.00	3.91	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD2.0i_00007 Amount Added: 1.00 Units: mL

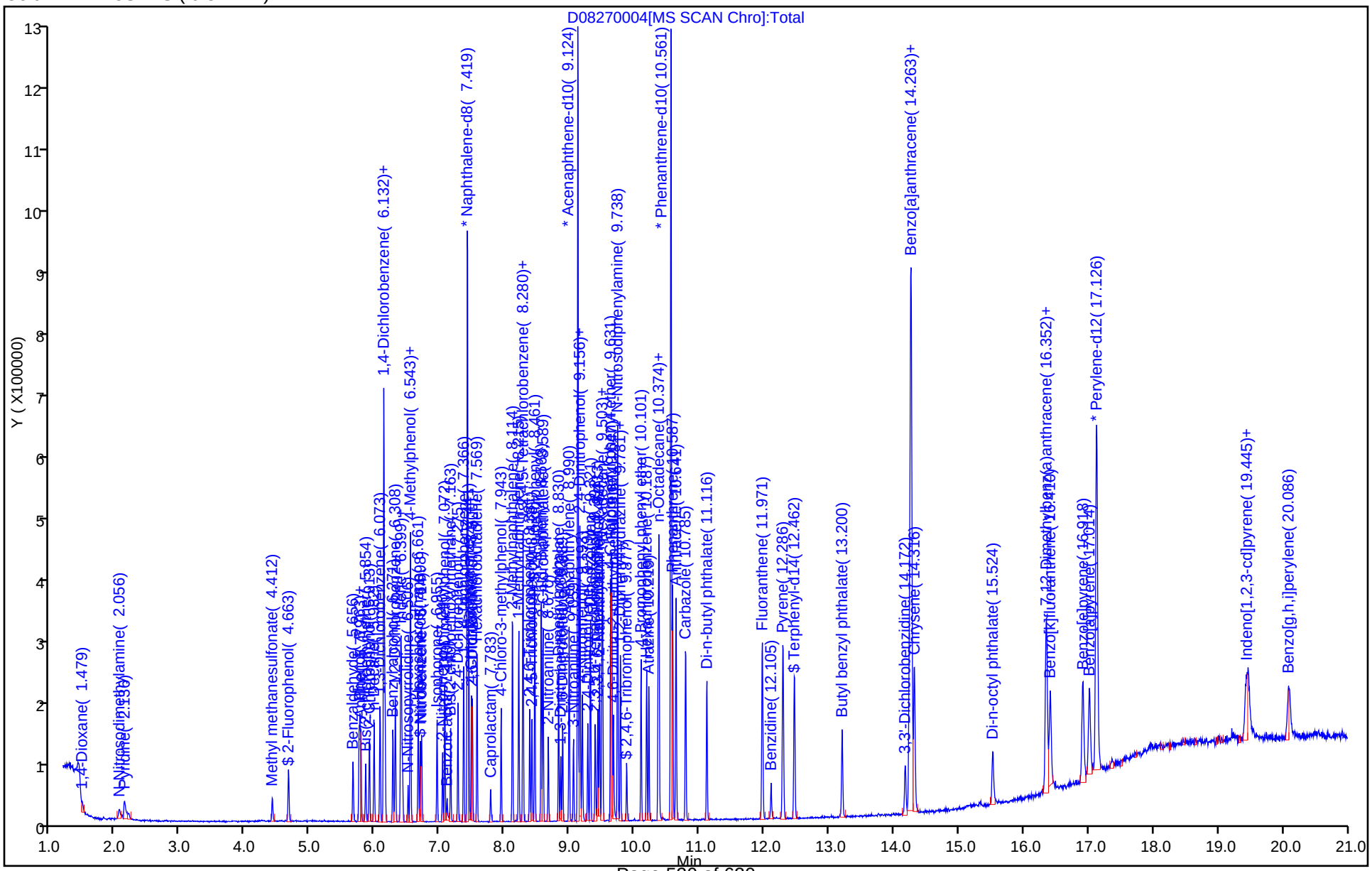
Report Date: 27-Aug-2015 10:15:05 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270004.D

Injection Date:	27-Aug-2015 05:51:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

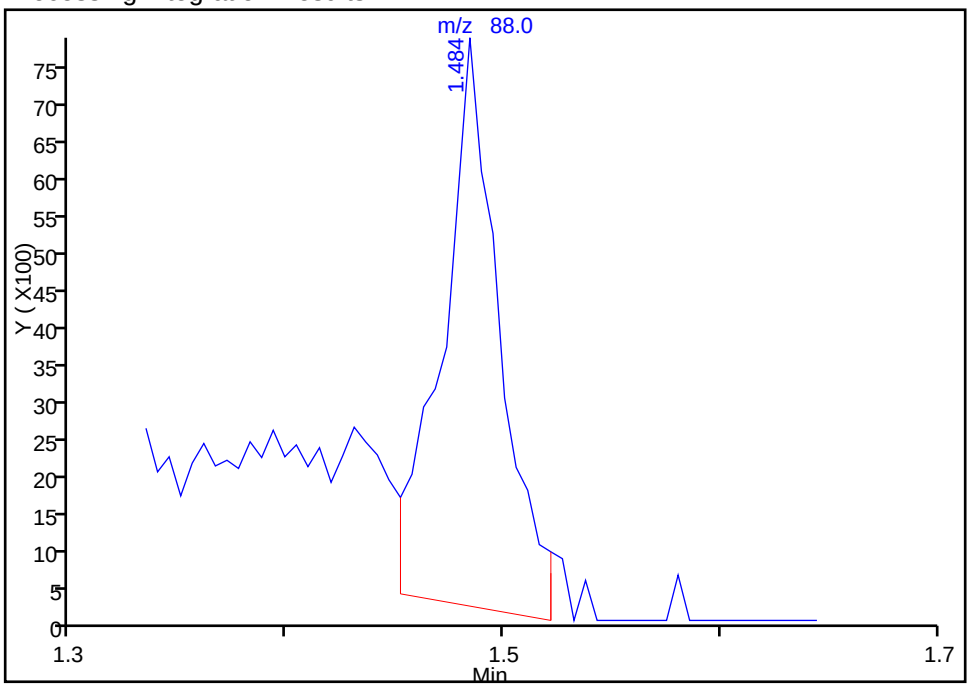
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270004.D				
Injection Date:	27-Aug-2015 05:51:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

13 1,4-Dioxane, CAS: 123-91-1

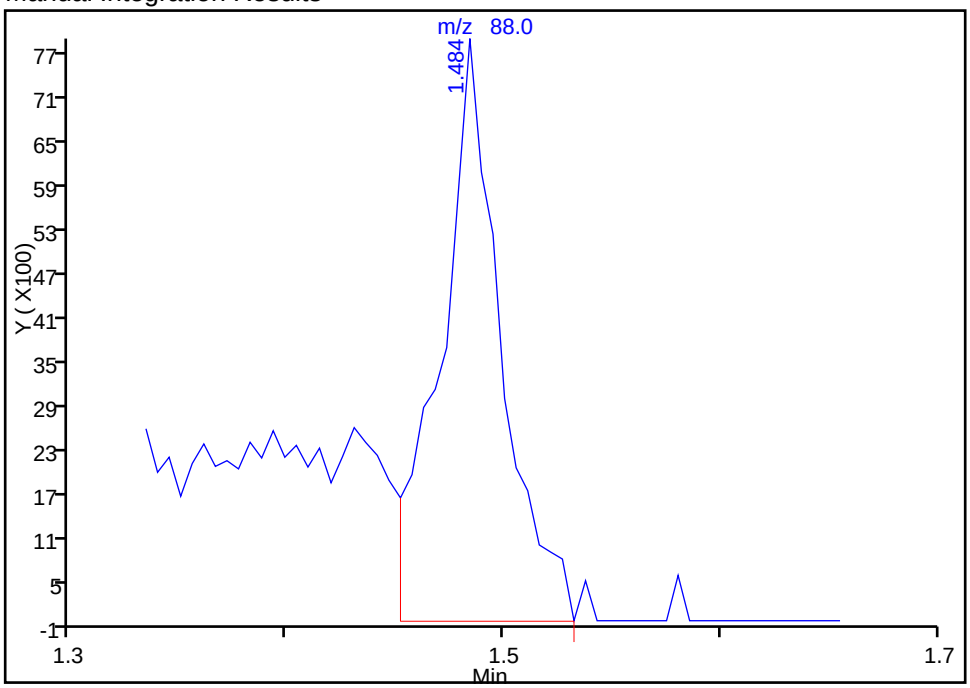
Processing Integration Results

RT: 1.48
Area: 14320
Amount: 1.943047
Amount Units: ng



Manual Integration Results

RT: 1.48
Area: 15431
Amount: 2.534154
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:33:50
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

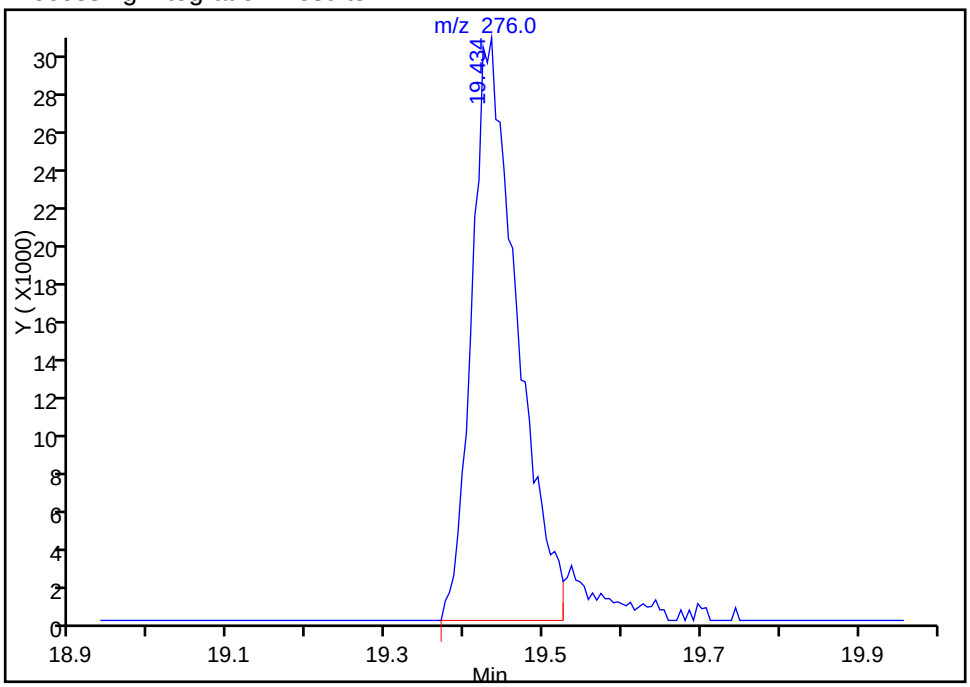
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270004.D				
Injection Date:	27-Aug-2015 05:51:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

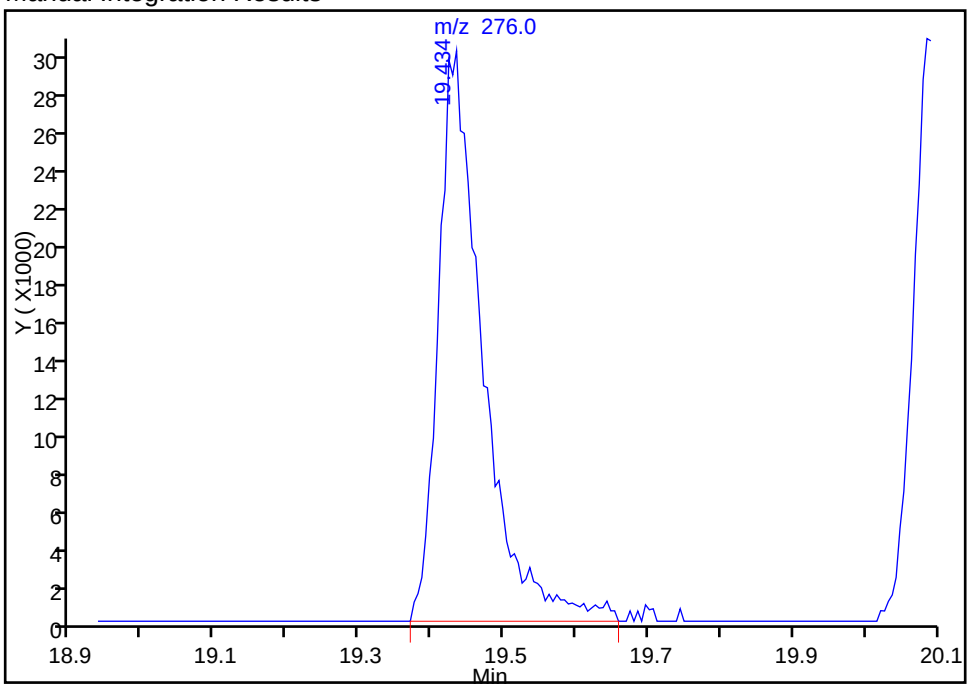
Processing Integration Results

RT: 19.43
Area: 120375
Amount: 1.570718
Amount Units: ng



Manual Integration Results

RT: 19.43
Area: 129412
Amount: 1.659153
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:21:08
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

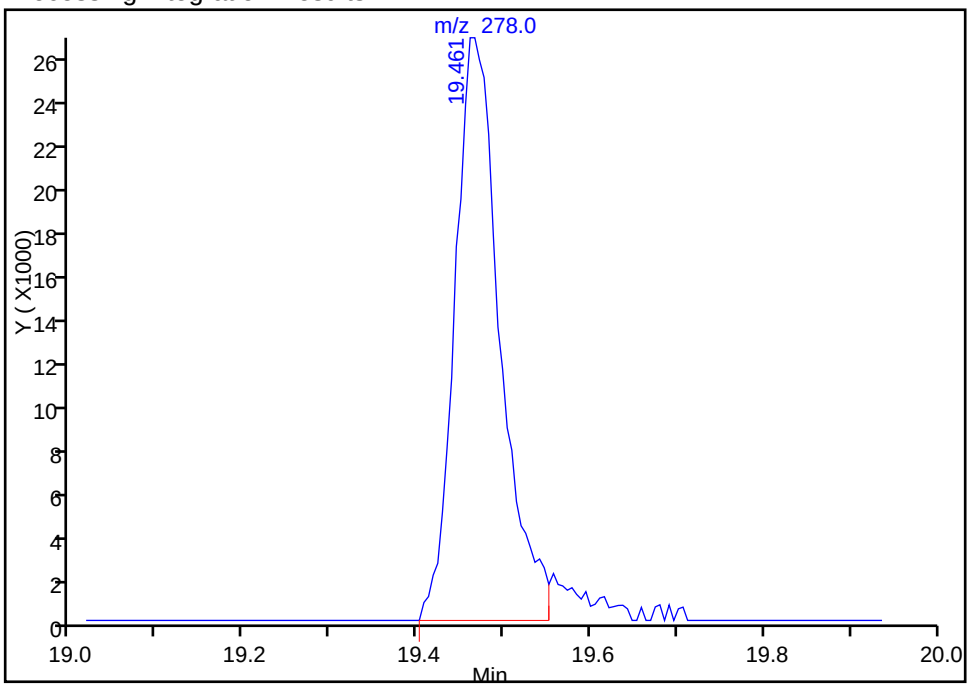
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270004.D				
Injection Date:	27-Aug-2015 05:51:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

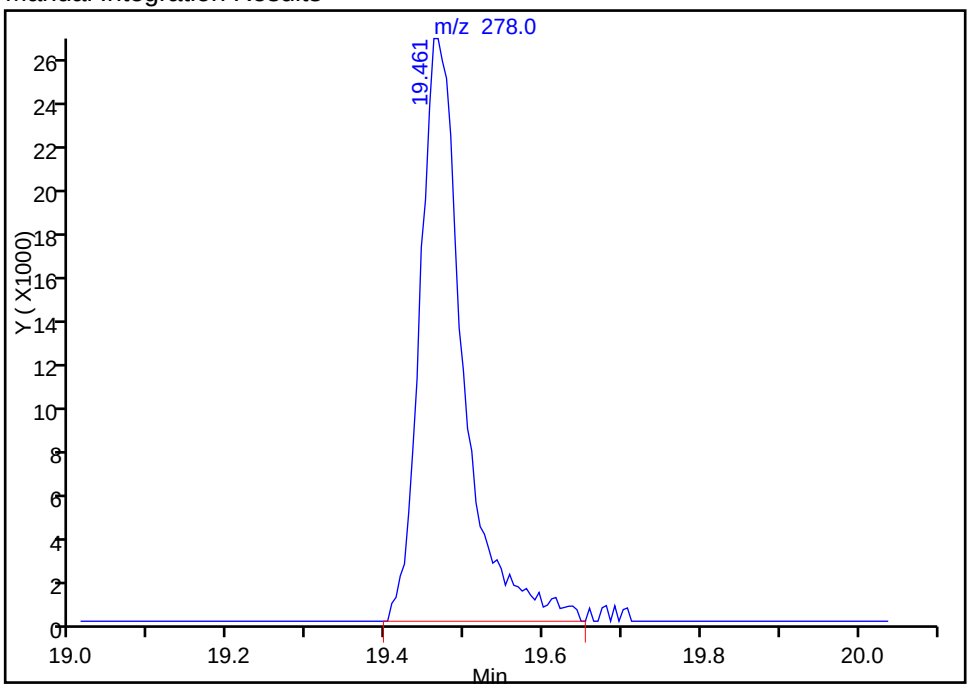
Processing Integration Results

RT: 19.46
Area: 97999
Amount: 1.587820
Amount Units: ng



Manual Integration Results

RT: 19.46
Area: 103942
Amount: 1.643993
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:21:08
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Aug-2015 06:18:30 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-005
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:15:27 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 07:36:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.132	6.132	0.000	96	108086	8.00	8.00	
* 2 Naphthalene-d8	136	7.425	7.414	0.011	99	430106	8.00	8.00	
* 3 Acenaphthene-d10	164	9.129	9.118	0.011	91	292974	8.00	8.00	
* 4 Phenanthrene-d10	188	10.566	10.550	0.016	98	537940	8.00	8.00	
* 5 Chrysene-d12	240	14.273	14.242	0.031	97	565315	8.00	8.00	
* 6 Perylene-d12	264	17.132	17.100	0.032	97	447206	8.00	8.00	
$ 7 2-Fluorophenol	112	4.657	4.674	-0.017	91	58564	4.00	3.89	
$ 8 Phenol-d5	99	5.747	5.753	-0.006	97	81423	4.00	4.00	
$ 9 Nitrobenzene-d5	82	6.693	6.693	0.000	88	86267	4.00	4.02	
$ 10 2-Fluorobiphenyl	172	8.461	8.456	0.005	100	217243	4.00	3.99	
$ 11 2,4,6-Tribromophenol	330	9.882	9.872	0.010	85	19631	4.00	3.67	
$ 12 Terphenyl-d14	244	12.473	12.447	0.026	100	235803	4.00	4.01	
13 1,4-Dioxane	88	1.468	1.506	-0.038	77	24572	4.00	4.30	
14 N-Nitrosodimethylamine	74	2.034	2.077	-0.043	93	26742	4.00	4.00	
15 Pyridine	79	2.114	2.179	-0.065	95	52336	4.00	4.08	
21 Methyl methanesulfonate	80	4.406	4.428	-0.022	87	36140	4.00	4.17	
25 Benzaldehyde	77	5.656	5.662	-0.006	97	43258	4.00	4.01	
26 Phenol	94	5.763	5.763	0.000	97	98155	4.00	4.17	
27 Aniline	93	5.774	5.785	-0.011	97	106482	4.00	4.05	
29 Bis(2-chloroethyl)ether	93	5.849	5.854	-0.005	98	64920	4.00	4.19	
30 2-Chlorophenol	128	5.907	5.913	-0.006	94	71869	4.00	4.04	
31 n-Decane	43	5.982	5.982	0.000	83	51638	4.00	4.13	
32 1,3-Dichlorobenzene	146	6.073	6.073	0.000	96	92558	4.00	4.06	
33 1,4-Dichlorobenzene	146	6.148	6.148	0.000	92	93939	4.00	4.00	
34 Benzyl alcohol	108	6.271	6.276	-0.005	88	41585	4.00	3.87	
35 1,2-Dichlorobenzene	146	6.308	6.308	0.000	94	89299	4.00	4.00	
36 2-Methylphenol	108	6.388	6.388	0.000	95	68323	4.00	4.16	
37 Indene	116	6.399	6.399	0.000	87	137252	4.00	4.05	
38 2,2'-oxybis[1-chloropropan	45	6.415	6.421	-0.005	85	63478	4.00	4.22	
39 N-Nitrosopyrrolidine	100	6.506	6.506	0.000	94	30847	4.00	4.17	
40 Acetophenone	105	6.538	6.538	0.000	93	110214	4.00	4.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.543	6.543	0.000	75	54878	4.00	4.28	
42 4-Methylphenol	108	6.543	6.543	0.000	94	71719	4.00	4.15	
45 Hexachloroethane	117	6.661	6.661	0.000	90	38887	4.00	4.10	
46 Nitrobenzene	77	6.714	6.714	0.000	85	90685	4.00	4.16	
48 Isophorone	82	6.955	6.949	0.006	99	138987	4.00	3.97	
49 2-Nitrophenol	139	7.040	7.035	0.005	98	37572	4.00	3.69	
50 2,4-Dimethylphenol	107	7.072	7.067	0.005	98	87710	4.00	4.07	
52 Benzoic acid	122	7.109	7.094	0.015	86	16099	4.00	5.03	M
53 Bis(2-chloroethoxy)methane	93	7.163	7.158	0.005	99	88155	4.00	4.06	
54 2,4-Dichlorophenol	162	7.275	7.270	0.005	94	69233	4.00	3.95	
56 1,2,4-Trichlorobenzene	180	7.366	7.361	0.005	94	90400	4.00	4.00	
58 Naphthalene	128	7.446	7.436	0.010	97	247627	4.00	3.97	
59 4-Chloroaniline	127	7.483	7.478	0.005	95	98112	4.00	4.01	
60 2,6-Dichlorophenol	162	7.499	7.494	0.005	97	69892	4.00	4.01	
62 Hexachlorobutadiene	225	7.569	7.564	0.005	94	65336	4.00	4.03	
64 Caprolactam	113	7.783	7.777	0.006	84	16267	4.00	3.30	
67 4-Chloro-3-methylphenol	107	7.943	7.938	0.005	94	74708	4.00	4.00	
69 2-Methylnaphthalene	142	8.119	8.109	0.010	90	182259	4.00	4.00	
71 1-Methylnaphthalene	142	8.215	8.205	0.010	92	163575	4.00	4.12	
72 Hexachlorocyclopentadiene	237	8.279	8.269	0.010	96	66585	4.00	3.67	
73 1,2,4,5-Tetrachlorobenzene	216	8.285	8.274	0.011	97	108929	4.00	4.01	
74 2,4,6-Trichlorophenol	196	8.386	8.376	0.010	93	53356	4.00	3.76	
75 2,4,5-Trichlorophenol	196	8.418	8.408	0.010	94	59444	4.00	3.92	
76 1,1'-Biphenyl	154	8.563	8.552	0.011	96	230833	4.00	3.98	
77 2-Chloronaphthalene	162	8.589	8.579	0.010	97	175008	4.00	3.99	
79 2-Nitroaniline	65	8.669	8.659	0.010	78	47126	4.00	3.86	
82 Dimethyl phthalate	163	8.830	8.819	0.011	98	184594	4.00	3.84	
83 1,3-Dinitrobenzene	168	8.862	8.857	0.005	86	26008	4.00	3.50	
84 2,6-Dinitrotoluene	165	8.894	8.883	0.011	94	42233	4.00	3.93	
85 Acenaphthylene	152	8.995	8.985	0.010	98	271577	4.00	3.92	
86 3-Nitroaniline	138	9.059	9.049	0.010	91	38185	4.00	3.53	
87 2,4-Dinitrophenol	184	9.161	9.150	0.011	61	32665	8.00	7.27	
88 Acenaphthene	153	9.161	9.150	0.011	93	187752	4.00	3.97	
89 4-Nitrophenol	109	9.198	9.182	0.016	92	55083	8.00	7.08	
91 2,4-Dinitrotoluene	165	9.284	9.273	0.011	92	55424	4.00	3.66	
93 Dibenzofuran	168	9.321	9.311	0.010	96	270577	4.00	3.97	
95 2,3,5,6-Tetrachlorophenol	232	9.396	9.385	0.011	93	50909	4.00	3.48	
96 2,3,4,6-Tetrachlorophenol	232	9.433	9.423	0.010	72	56915	4.00	3.92	
97 2-Naphthylamine	143	9.465	9.455	0.010	95	165058	4.00	3.83	
98 Diethyl phthalate	149	9.497	9.487	0.010	97	188374	4.00	3.84	
99 Hexadecane	57	9.508	9.498	0.010	93	106626	4.00	4.26	
100 4-Chlorophenyl phenyl ethe	204	9.631	9.621	0.011	93	116990	4.00	3.95	
101 4-Nitroaniline	138	9.642	9.631	0.011	86	42946	4.00	3.59	
103 Fluorene	166	9.652	9.642	0.010	93	218910	4.00	3.92	
104 4,6-Dinitro-2-methylphenol	198	9.674	9.663	0.011	91	57853	8.00	6.01	
105 N-Nitrosodiphenylamine	169	9.743	9.733	0.010	62	314082	8.00	7.97	
90 1,2-Diphenylhydrazine	77	9.786	9.775	0.011	98	222649	4.00	4.17	
57 Azobenzene	77	9.786	9.775	0.011	98	222649	4.00	4.17	
110 4-Bromophenyl phenyl ether	248	10.106	10.091	0.015	66	64176	4.00	4.07	
112 Hexachlorobenzene	284	10.192	10.181	0.011	92	62558	4.00	4.16	
113 Atrazine	200	10.224	10.213	0.011	95	58399	4.00	3.82	
116 Pentachlorophenol	266	10.368	10.358	0.010	91	60561	8.00	5.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.379	10.368	0.011	96	115405	4.00	4.26	
121 Phenanthrene	178	10.593	10.577	0.016	98	335765	4.00	4.00	
122 Anthracene	178	10.641	10.630	0.011	98	326517	4.00	3.96	
124 Carbazole	167	10.790	10.774	0.016	96	281716	4.00	3.96	
126 Di-n-butyl phthalate	149	11.122	11.100	0.022	100	284636	4.00	3.59	
131 Fluoranthene	202	11.976	11.955	0.021	97	362057	4.00	3.95	
132 Benzidine	184	12.115	12.094	0.021	99	80226	4.00	4.17	
133 Pyrene	202	12.297	12.270	0.027	97	370018	4.00	4.03	
138 Butyl benzyl phthalate	149	13.205	13.178	0.027	97	101775	4.00	3.31	
144 3,3'-Dichlorobenzidine	252	14.183	14.151	0.032	75	79033	4.00	3.59	M
145 Bis(2-ethylhexyl) phthalat	149	14.241	14.215	0.026	97	133741	4.00	3.70	
146 Benzo[a]anthracene	228	14.252	14.226	0.026	98	354775	4.00	3.87	
147 Chrysene	228	14.322	14.290	0.032	97	338591	4.00	3.96	
150 Di-n-octyl phthalate	149	15.529	15.497	0.032	99	157819	4.00	3.58	
151 7,12-Dimethylbenz(a)anthra	256	16.352	16.309	0.043	91	127378	4.00	3.79	
152 Benzo[b]fluoranthene	252	16.362	16.325	0.037	97	305692	4.00	3.93	
153 Benzo[k]fluoranthene	252	16.421	16.384	0.037	97	303823	4.00	3.90	
219 Benzo[e]pyrene	252	16.923	16.886	0.037	0	280062	4.00	3.94	
154 Benzo[a]pyrene	252	17.019	16.987	0.032	77	275698	4.00	3.82	
157 Indeno[1,2,3-cd]pyrene	276	19.445	19.402	0.043	99	290237	4.00	3.86	M
158 Dibenz(a,h)anthracene	278	19.477	19.424	0.053	91	233595	4.00	3.83	M
159 Benzo[g,h,i]perylene	276	20.096	20.049	0.047	97	242670	4.00	3.80	
S 197 Methyl Phenols,Total	108				0		8.00	8.31	
S 199 Total Cresols	108				0		8.00	8.31	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD4.0i_00008 Amount Added: 1.00 Units: mL

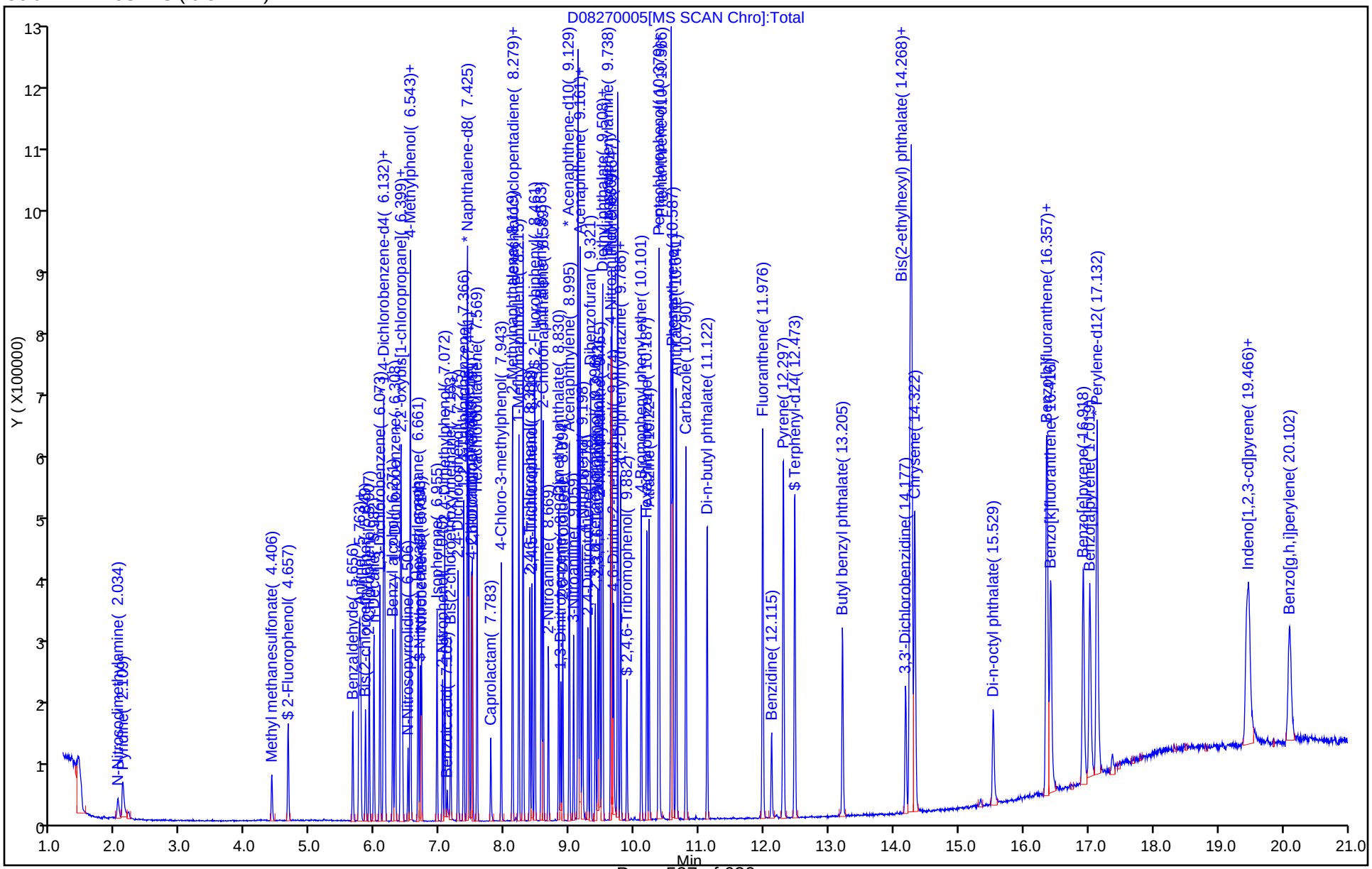
Report Date: 27-Aug-2015 10:15:29 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D

Injection Date:	27-Aug-2015 06:18:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

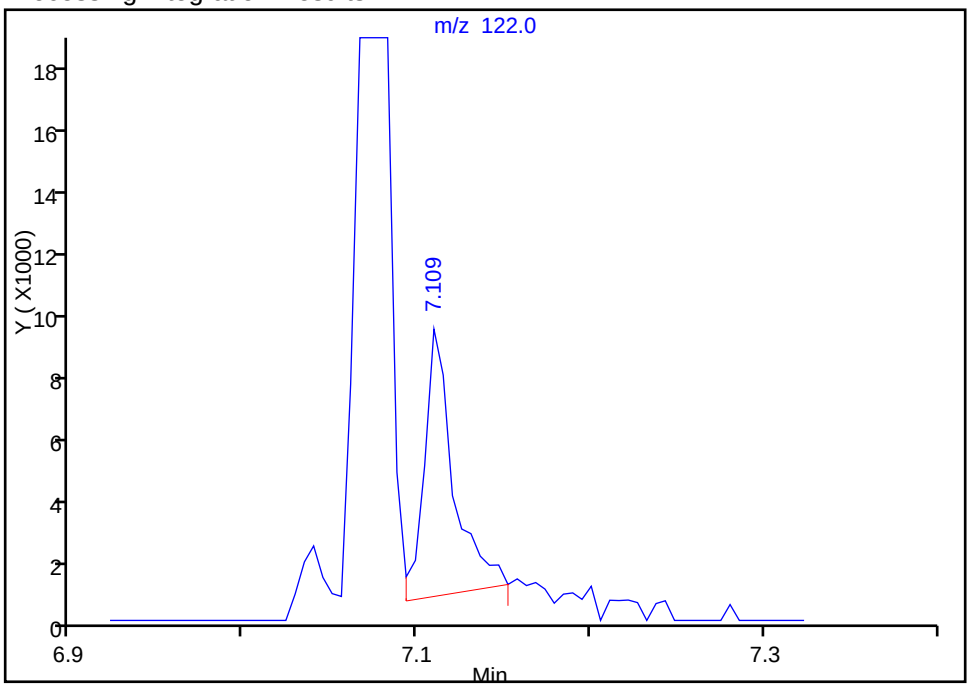
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D				
Injection Date:	27-Aug-2015 06:18:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

52 Benzoic acid, CAS: 65-85-0

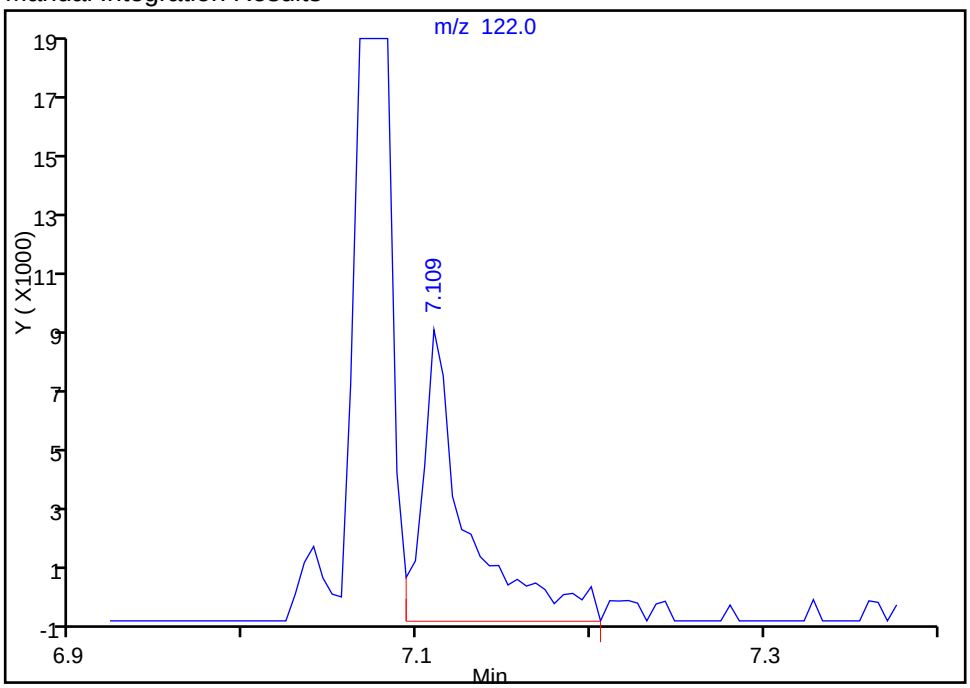
Processing Integration Results

RT: 7.11
Area: 9895
Amount: 2.305106
Amount Units: ng



Manual Integration Results

RT: 7.11
Area: 16099
Amount: 5.033028
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:36:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

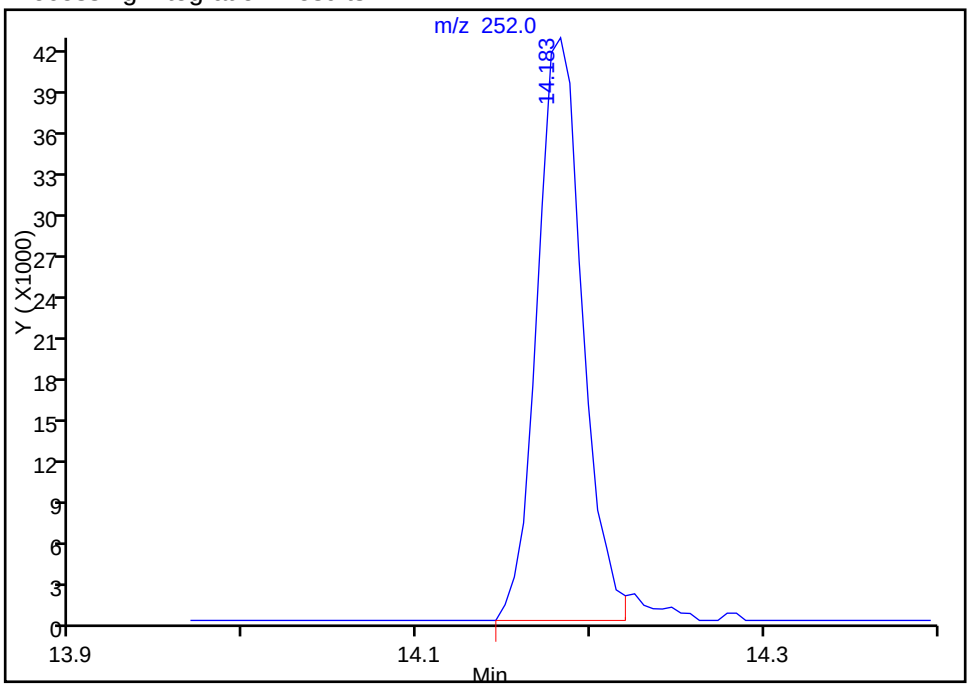
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D				
Injection Date:	27-Aug-2015 06:18:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

144 3,3'-Dichlorobenzidine, CAS: 91-94-1

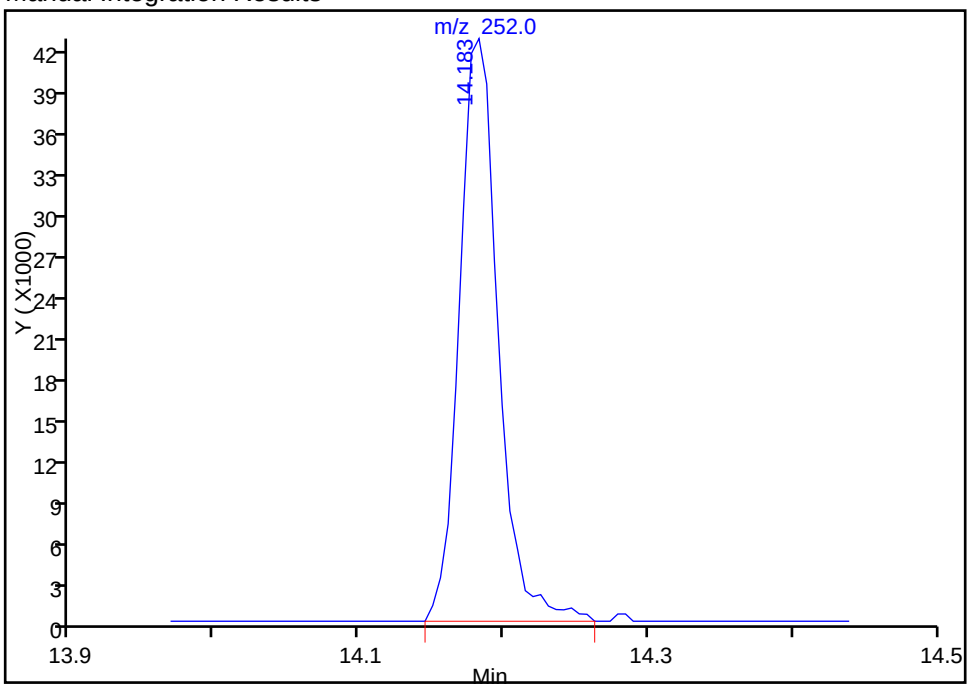
Processing Integration Results

RT: 14.18
Area: 76884
Amount: 3.808274
Amount Units: ng



Manual Integration Results

RT: 14.18
Area: 79033
Amount: 3.589627
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 07:36:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

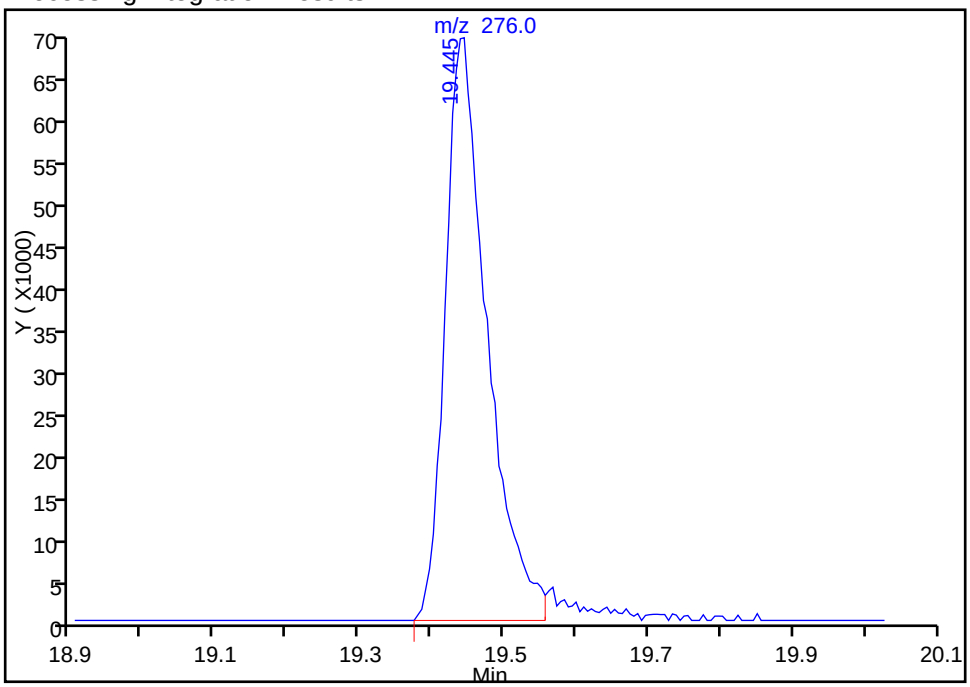
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D				
Injection Date:	27-Aug-2015 06:18:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

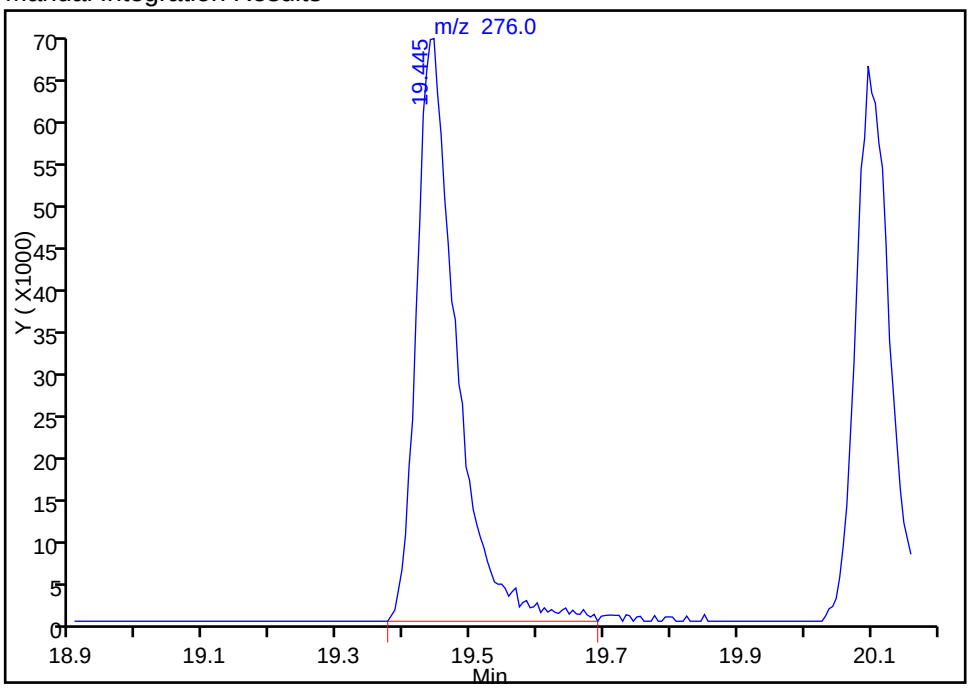
Processing Integration Results

RT: 19.44
Area: 278487
Amount: 3.647031
Amount Units: ng



Manual Integration Results

RT: 19.44
Area: 290237
Amount: 3.859640
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:22:16
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

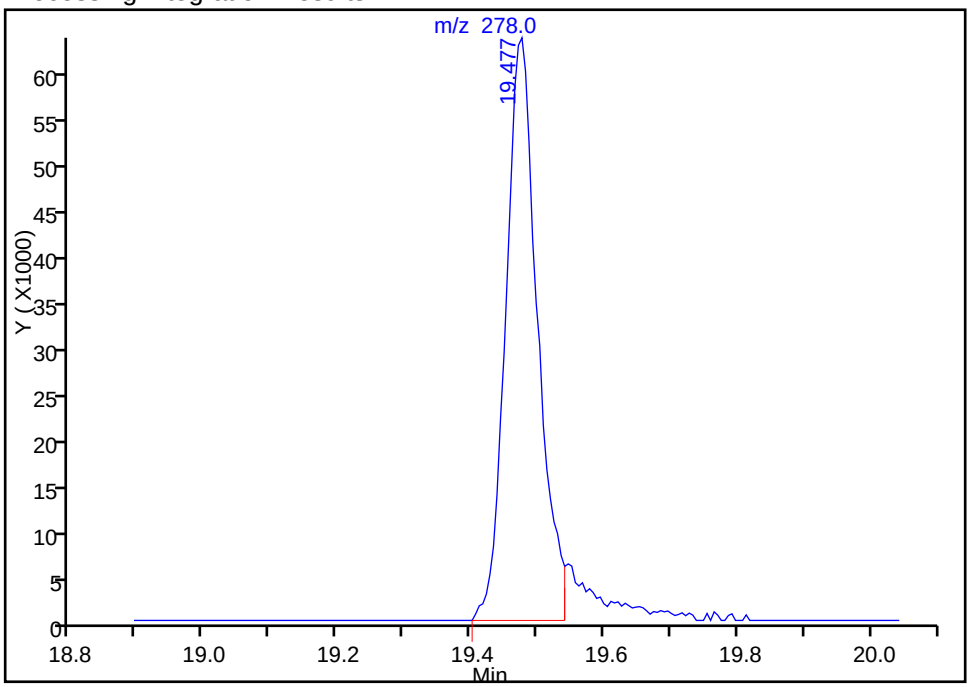
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270005.D				
Injection Date:	27-Aug-2015 06:18:30	Instrument ID:	CH732		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

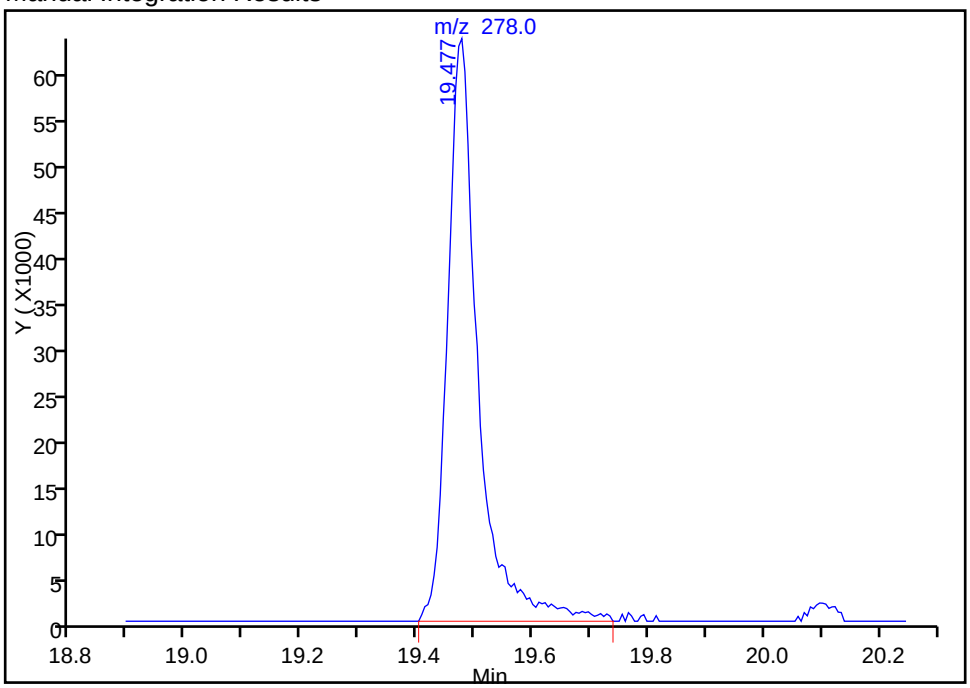
Processing Integration Results

RT: 19.48
Area: 211171
Amount: 3.527689
Amount Units: ng



Manual Integration Results

RT: 19.48
Area: 233595
Amount: 3.832255
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:22:16
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270006.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 27-Aug-2015 06:44:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-006
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:15:45 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 07:37:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.132	6.132	0.000	95	104386	8.00	8.00	
* 2 Naphthalene-d8	136	7.425	7.425	0.000	99	419355	8.00	8.00	
* 3 Acenaphthene-d10	164	9.129	9.129	0.000	93	271655	8.00	8.00	
* 4 Phenanthrene-d10	188	10.571	10.571	0.000	97	523880	8.00	8.00	
* 5 Chrysene-d12	240	14.279	14.279	0.000	97	562093	8.00	8.00	
* 6 Perylene-d12	264	17.137	17.137	0.000	96	456878	8.00	8.00	
$ 7 2-Fluorophenol	112	4.658	4.658	0.000	91	149333	10.0	10.3	
$ 8 Phenol-d5	99	5.747	5.747	0.000	96	203640	10.0	10.3	
$ 9 Nitrobenzene-d5	82	6.698	6.698	0.000	87	217414	10.0	10.4	
$ 10 2-Fluorobiphenyl	172	8.467	8.467	0.000	100	510190	10.0	10.1	
$ 11 2,4,6-Tribromophenol	330	9.888	9.888	0.000	86	50044	10.0	9.62	
$ 12 Terphenyl-d14	244	12.473	12.473	0.000	99	595319	10.0	10.2	
13 1,4-Dioxane	88	1.468	1.468	0.000	87	53629	10.0	9.72	
14 N-Nitrosodimethylamine	74	2.029	2.029	0.000	92	65121	10.0	10.1	
15 Pyridine	79	2.099	2.099	0.000	95	127655	10.0	10.3	
21 Methyl methanesulfonate	80	4.401	4.401	0.000	88	86244	10.0	10.3	
25 Benzaldehyde	77	5.656	5.656	0.000	97	103678	10.0	9.94	
26 Phenol	94	5.763	5.763	0.000	97	234477	10.0	10.3	
27 Aniline	93	5.779	5.779	0.000	56	258794	10.0	10.2	
29 Bis(2-chloroethyl)ether	93	5.854	5.854	0.000	97	150907	10.0	10.1	
30 2-Chlorophenol	128	5.908	5.908	0.000	95	174578	10.0	10.2	
31 n-Decane	43	5.982	5.982	0.000	83	121973	10.0	10.1	
32 1,3-Dichlorobenzene	146	6.073	6.073	0.000	96	215618	10.0	9.79	
33 1,4-Dichlorobenzene	146	6.153	6.153	0.000	93	229293	10.0	10.1	
34 Benzyl alcohol	108	6.271	6.271	0.000	90	106085	10.0	10.2	
35 1,2-Dichlorobenzene	146	6.308	6.308	0.000	95	213031	10.0	9.87	
36 2-Methylphenol	108	6.394	6.394	0.000	97	162138	10.0	10.2	
37 Indene	116	6.404	6.404	0.000	92	326270	10.0	9.96	
38 2,2'-oxybis[1-chloropropan	45	6.420	6.420	0.000	86	147197	10.0	10.1	
39 N-Nitrosopyrrolidine	100	6.506	6.506	0.000	94	74734	10.0	10.5	
40 Acetophenone	105	6.543	6.543	0.000	85	269817	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.543	6.543	0.000	67	132146	10.0	10.7	
42 4-Methylphenol	108	6.549	6.549	0.000	92	175728	10.0	10.5	
45 Hexachloroethane	117	6.661	6.661	0.000	93	97169	10.0	10.6	
46 Nitrobenzene	77	6.714	6.714	0.000	84	220872	10.0	10.4	
48 Isophorone	82	6.955	6.955	0.000	99	350811	10.0	10.3	
49 2-Nitrophenol	139	7.040	7.040	0.000	98	99536	10.0	10.0	
50 2,4-Dimethylphenol	107	7.078	7.078	0.000	98	214743	10.0	10.2	
52 Benzoic acid	122	7.126	7.126	0.000	87	57976	10.0	8.78	
53 Bis(2-chloroethoxy)methane	93	7.168	7.168	0.000	99	214718	10.0	10.2	
54 2,4-Dichlorophenol	162	7.281	7.281	0.000	95	175091	10.0	10.3	
56 1,2,4-Trichlorobenzene	180	7.366	7.366	0.000	94	219486	10.0	9.96	
58 Naphthalene	128	7.446	7.446	0.000	98	592967	10.0	9.75	
59 4-Chloroaniline	127	7.489	7.489	0.000	95	243925	10.0	10.2	
60 2,6-Dichlorophenol	162	7.500	7.500	0.000	97	171987	10.0	10.1	
62 Hexachlorobutadiene	225	7.574	7.574	0.000	94	157124	10.0	9.93	
64 Caprolactam	113	7.788	7.788	0.000	87	47247	10.0	9.83	
67 4-Chloro-3-methylphenol	107	7.943	7.943	0.000	94	188133	10.0	10.3	
69 2-Methylnaphthalene	142	8.119	8.119	0.000	92	447226	10.0	10.1	
71 1-Methylnaphthalene	142	8.215	8.215	0.000	92	383306	10.0	9.90	
72 Hexachlorocyclopentadiene	237	8.280	8.280	0.000	96	166401	10.0	9.90	
73 1,2,4,5-Tetrachlorobenzene	216	8.285	8.285	0.000	97	253471	10.0	10.1	
74 2,4,6-Trichlorophenol	196	8.386	8.386	0.000	92	140085	10.0	10.6	
75 2,4,5-Trichlorophenol	196	8.418	8.418	0.000	93	151442	10.0	10.8	
76 1,1'-Biphenyl	154	8.563	8.563	0.000	95	551287	10.0	10.3	
77 2-Chloronaphthalene	162	8.595	8.595	0.000	97	414565	10.0	10.2	
79 2-Nitroaniline	65	8.675	8.675	0.000	79	119839	10.0	10.6	
82 Dimethyl phthalate	163	8.835	8.835	0.000	98	454395	10.0	10.2	
83 1,3-Dinitrobenzene	168	8.867	8.867	0.000	85	69318	10.0	10.0	
84 2,6-Dinitrotoluene	165	8.894	8.894	0.000	94	104957	10.0	10.5	
85 Acenaphthylene	152	8.995	8.995	0.000	98	647649	10.0	10.1	
86 3-Nitroaniline	138	9.065	9.065	0.000	92	102113	10.0	10.2	
87 2,4-Dinitrophenol	184	9.161	9.161	0.000	65	106159	20.0	16.4	
88 Acenaphthene	153	9.161	9.161	0.000	90	449927	10.0	10.3	
89 4-Nitrophenol	109	9.198	9.198	0.000	92	147011	20.0	20.4	
91 2,4-Dinitrotoluene	165	9.284	9.284	0.000	93	143206	10.0	10.2	
93 Dibenzofuran	168	9.327	9.327	0.000	96	638452	10.0	10.1	
95 2,3,5,6-Tetrachlorophenol	232	9.396	9.396	0.000	94	132569	10.0	9.76	
96 2,3,4,6-Tetrachlorophenol	232	9.439	9.439	0.000	72	141201	10.0	10.5	
97 2-Naphthylamine	143	9.466	9.466	0.000	95	432426	10.0	10.8	
98 Diethyl phthalate	149	9.503	9.503	0.000	97	469555	10.0	10.3	
99 Hexadecane	57	9.514	9.514	0.000	93	256287	10.0	10.5	
100 4-Chlorophenyl phenyl ethe	204	9.636	9.636	0.000	93	275354	10.0	10.0	
101 4-Nitroaniline	138	9.647	9.647	0.000	80	113459	10.0	10.2	
103 Fluorene	166	9.658	9.658	0.000	94	536905	10.0	10.4	
104 4,6-Dinitro-2-methylphenol	198	9.679	9.679	0.000	90	177117	20.0	18.9	
105 N-Nitrosodiphenylamine	169	9.743	9.743	0.000	62	762970	20.0	19.9	
90 1,2-Diphenylhydrazine	77	9.786	9.786	0.000	98	535162	10.0	10.3	
57 Azobenzene	77	9.786	9.786	0.000	98	535162	10.0	10.3	
110 4-Bromophenyl phenyl ether	248	10.107	10.107	0.000	66	152770	10.0	9.94	
112 Hexachlorobenzene	284	10.192	10.192	0.000	92	148229	10.0	10.1	
113 Atrazine	200	10.229	10.229	0.000	95	156746	10.0	10.5	
116 Pentachlorophenol	266	10.368	10.368	0.000	89	179075	20.0	18.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.384	10.384	0.000	95	280304	10.0	10.7	
121 Phenanthrene	178	10.593	10.593	0.000	98	817668	10.0	10.0	
122 Anthracene	178	10.646	10.646	0.000	98	802784	10.0	10.0	
124 Carbazole	167	10.796	10.796	0.000	96	705160	10.0	10.2	
126 Di-n-butyl phthalate	149	11.122	11.122	0.000	100	750296	10.0	9.71	
131 Fluoranthene	202	11.982	11.982	0.000	98	890548	10.0	9.98	
132 Benzidine	184	12.121	12.121	0.000	99	290914	10.0	9.31	
133 Pyrene	202	12.302	12.302	0.000	98	942774	10.0	10.3	
138 Butyl benzyl phthalate	149	13.210	13.210	0.000	97	293262	10.0	9.59	
144 3,3'-Dichlorobenzidine	252	14.188	14.188	0.000	74	239375	10.0	8.85	
145 Bis(2-ethylhexyl) phthalat	149	14.247	14.247	0.000	97	409057	10.0	9.37	
146 Benzo[a]anthracene	228	14.263	14.263	0.000	98	908773	10.0	9.98	
147 Chrysene	228	14.327	14.327	0.000	97	853582	10.0	10.0	
150 Di-n-octyl phthalate	149	15.540	15.540	0.000	99	536425	10.0	8.35	
151 7,12-Dimethylbenz(a)anthra	256	16.357	16.357	0.000	90	354164	10.0	10.3	
152 Benzo[b]fluoranthene	252	16.373	16.373	0.000	97	807964	10.0	10.2	
153 Benzo[k]fluoranthene	252	16.426	16.426	0.000	99	825218	10.0	10.4	
219 Benzo[e]pyrene	252	16.929	16.929	0.000	0	739858	10.0	10.2	
154 Benzo[a]pyrene	252	17.030	17.030	0.000	77	744082	10.0	10.1	
157 Indeno[1,2,3-cd]pyrene	276	19.450	19.450	0.000	99	782495	10.0	10.2	M
158 Dibenz(a,h)anthracene	278	19.482	19.482	0.000	91	632284	10.0	10.2	M
159 Benzo[g,h,i]perylene	276	20.107	20.107	0.000	98	655950	10.0	10.0	
S 197 Methyl Phenols,Total	108				0		20.0	20.8	
S 199 Total Cresols	108				0		20.0	20.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD10i_00123 Amount Added: 1.00 Units: mL

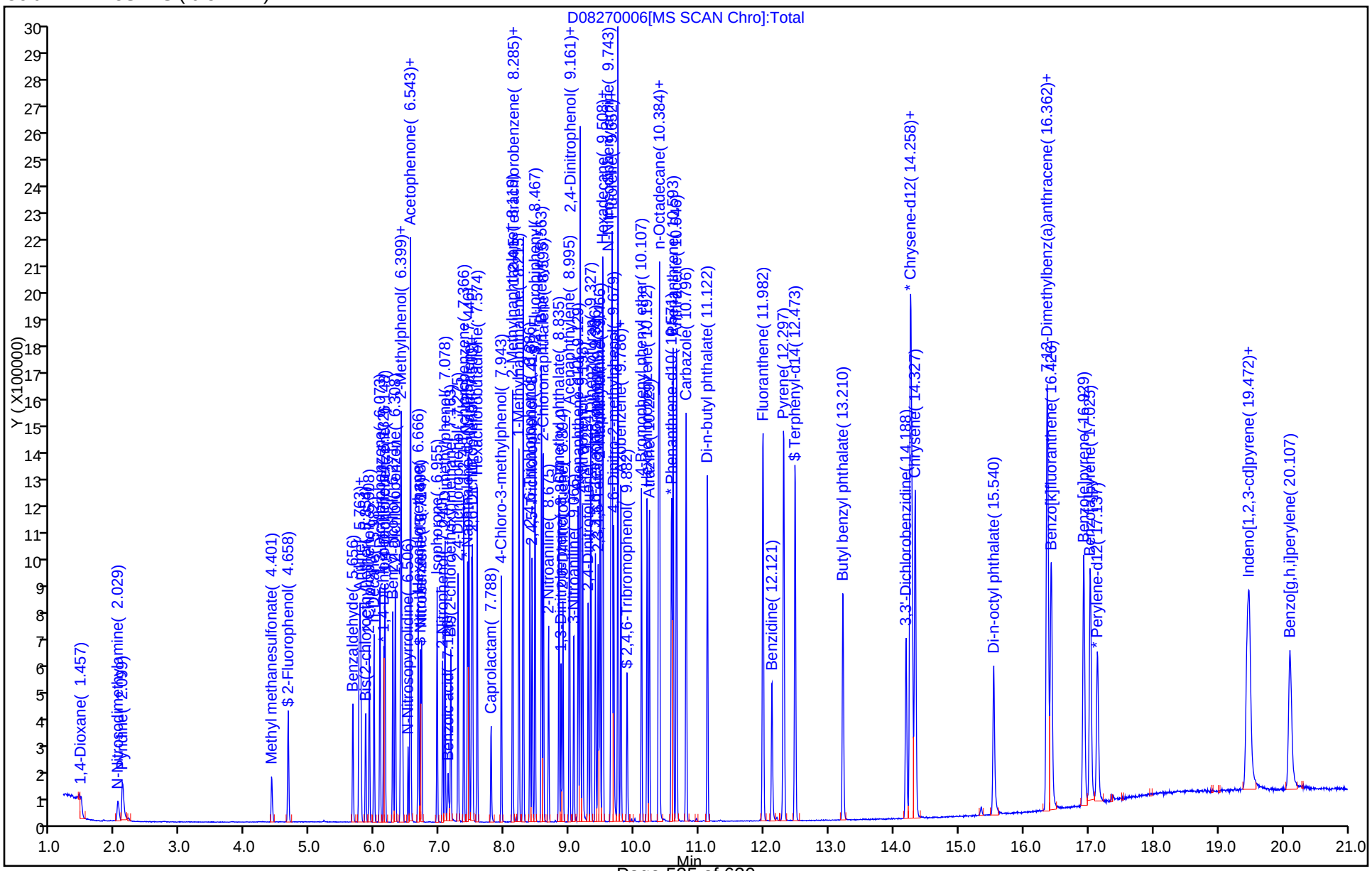
Report Date: 27-Aug-2015 10:15:48 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270006.D

Injection Date:	27-Aug-2015 06:44:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	ICIS			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

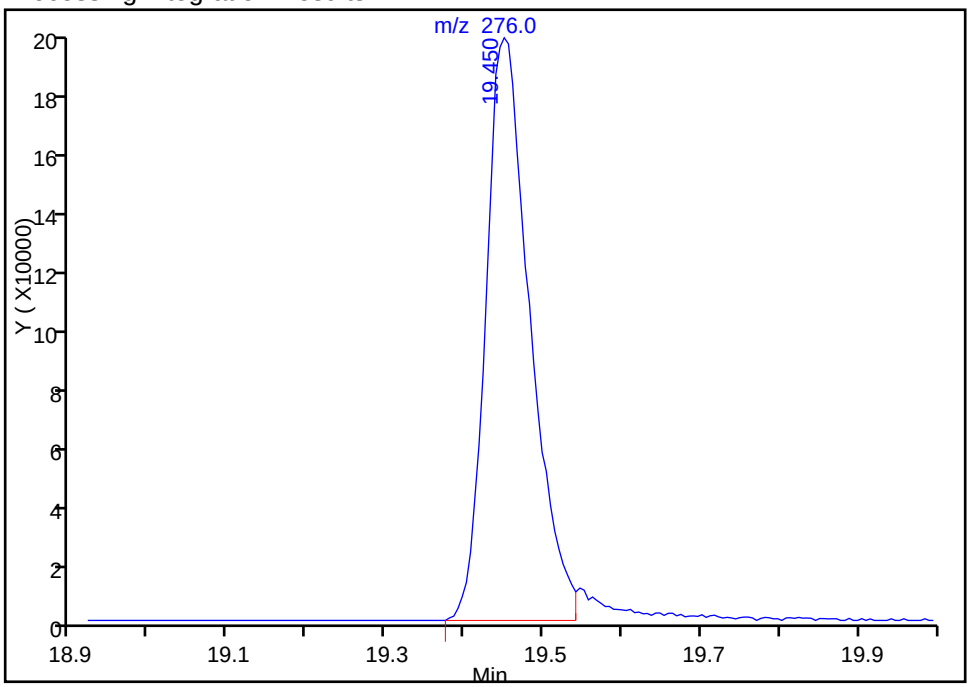
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270006.D				
Injection Date:	27-Aug-2015 06:44:30	Instrument ID:	CH732		
Lims ID:	ICIS				
Client ID:					
Operator ID:	003200	ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

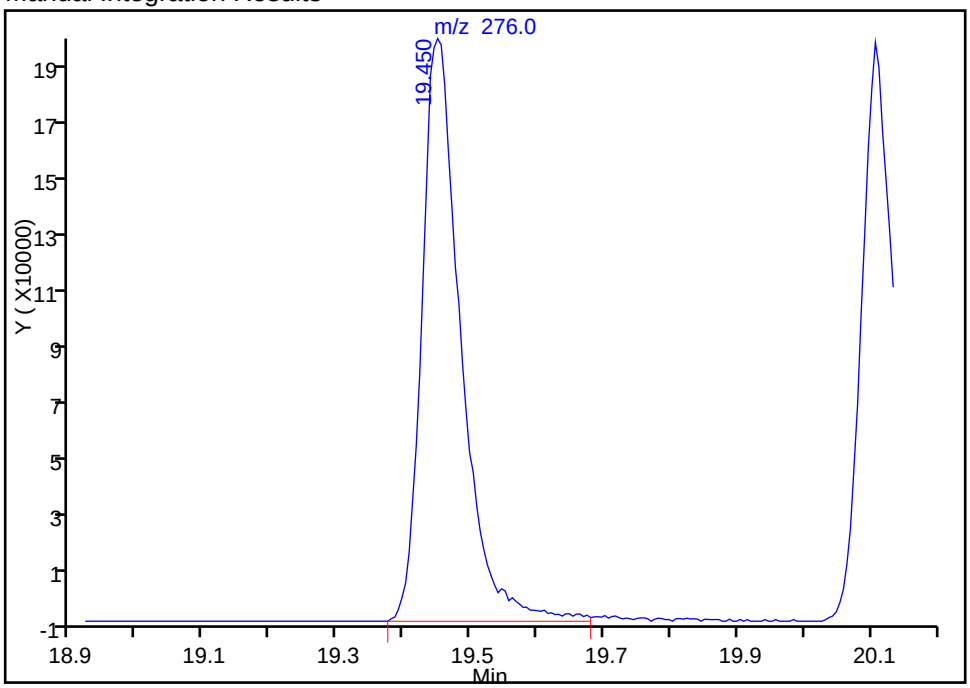
Processing Integration Results

RT: 19.45
Area: 749699
Amount: 9.311982
Amount Units: ng



Manual Integration Results

RT: 19.45
Area: 782495
Amount: 10.185514
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:23:21
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

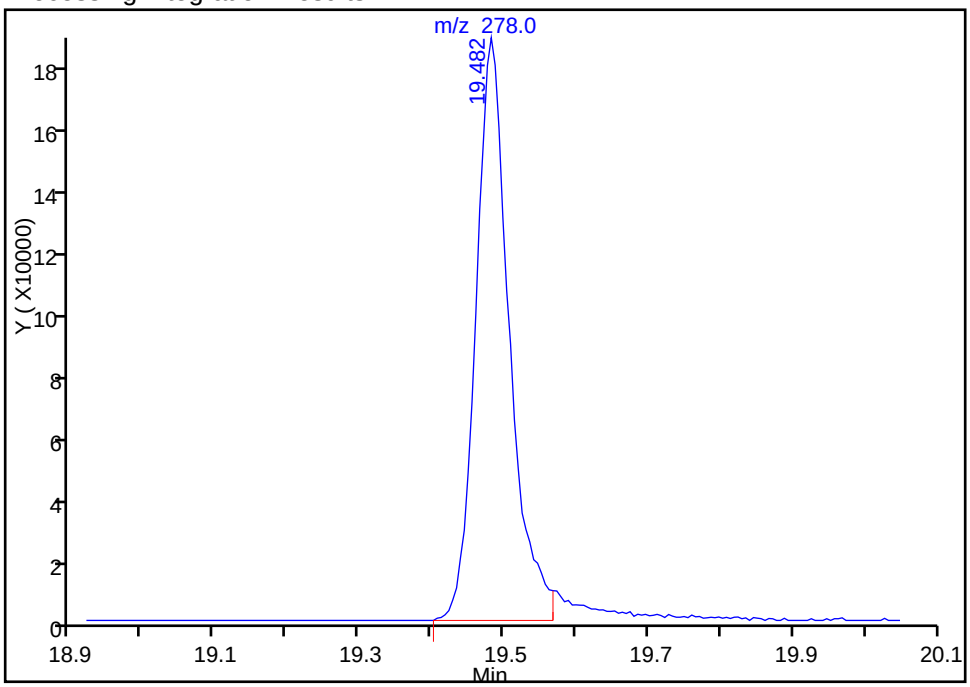
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270006.D				
Injection Date:	27-Aug-2015 06:44:30	Instrument ID:	CH732		
Lims ID:	ICIS				
Client ID:					
Operator ID:	003200	ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

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

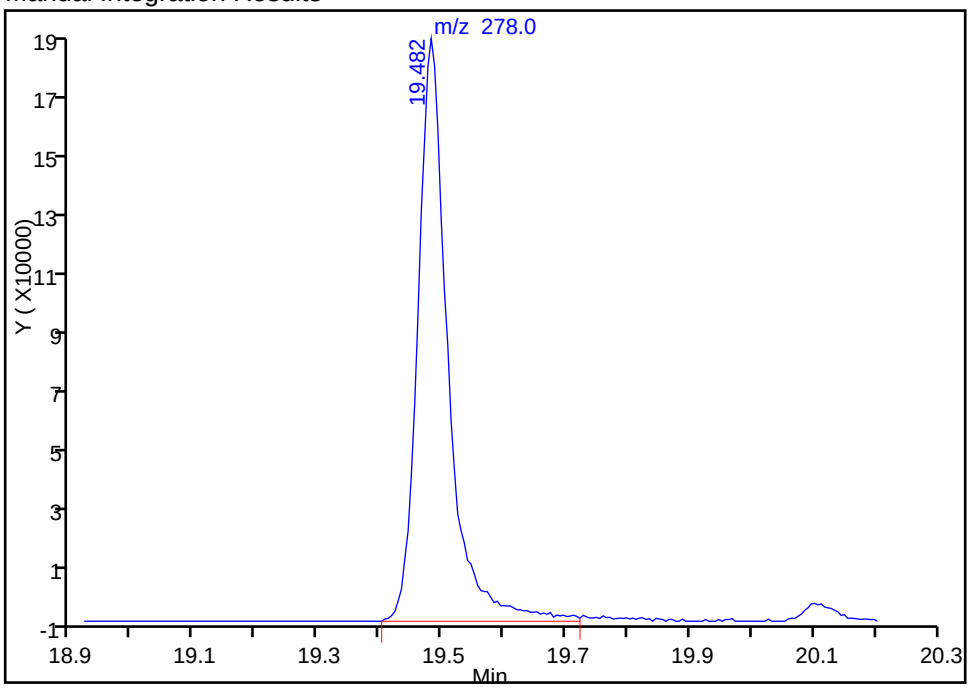
Processing Integration Results

RT: 19.48
Area: 600147
Amount: 9.223378
Amount Units: ng



Manual Integration Results

RT: 19.48
Area: 632284
Amount: 10.153376
Amount Units: ng



Reviewer: piccolinov, 27-Aug-2015 09:23:21
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270007.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Aug-2015 07:23:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-007
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:15:58 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 07:52:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.201	6.132	0.069	96	108890	8.00	8.00	
* 2 Naphthalene-d8	136	7.483	7.425	0.058	99	421759	8.00	8.00	
* 3 Acenaphthene-d10	164	9.182	9.129	0.053	92	273316	8.00	8.00	
* 4 Phenanthrene-d10	188	10.619	10.571	0.048	98	515245	8.00	8.00	
* 5 Chrysene-d12	240	14.353	14.279	0.074	97	544843	8.00	8.00	
* 6 Perylene-d12	264	17.217	17.137	0.080	97	466404	8.00	8.00	
$ 7 2-Fluorophenol	112	4.753	4.658	0.095	91	316444	20.0	20.9	
$ 8 Phenol-d5	99	5.822	5.747	0.075	97	417566	20.0	20.3	
$ 9 Nitrobenzene-d5	82	6.762	6.698	0.064	87	432164	20.0	20.6	
$ 10 2-Fluorobiphenyl	172	8.520	8.467	0.053	100	1024406	20.0	20.2	
$ 11 2,4,6-Tribromophenol	330	9.935	9.888	0.047	85	102568	20.0	20.0	
$ 12 Terphenyl-d14	244	12.537	12.473	0.064	99	1168734	20.0	20.6	
13 1,4-Dioxane	88	1.569	1.468	0.101	86	107901	20.0	18.8	
14 N-Nitrosodimethylamine	74	2.173	2.029	0.144	92	136530	20.0	20.2	
15 Pyridine	79	2.237	2.099	0.138	95	265474	20.0	20.5	
21 Methyl methanesulfonate	80	4.502	4.401	0.101	88	176471	20.0	20.2	
25 Benzaldehyde	77	5.731	5.656	0.075	97	216478	20.0	19.9	
26 Phenol	94	5.838	5.763	0.075	96	476522	20.0	20.1	
27 Aniline	93	5.854	5.779	0.075	63	536626	20.0	20.2	
29 Bis(2-chloroethyl)ether	93	5.923	5.854	0.069	97	312396	20.0	20.0	
30 2-Chlorophenol	128	5.982	5.908	0.074	95	369713	20.0	20.6	
31 n-Decane	43	6.052	5.982	0.070	82	250434	20.0	19.9	
32 1,3-Dichlorobenzene	146	6.142	6.073	0.069	96	460549	20.0	20.0	
33 1,4-Dichlorobenzene	146	6.223	6.153	0.070	92	467119	20.0	19.7	
34 Benzyl alcohol	108	6.340	6.271	0.069	89	221882	20.0	20.5	
35 1,2-Dichlorobenzene	146	6.378	6.308	0.070	95	451168	20.0	20.0	
36 2-Methylphenol	108	6.463	6.394	0.069	96	336965	20.0	20.4	
37 Indene	116	6.468	6.404	0.064	87	676195	20.0	19.8	
38 2,2'-oxybis[1-chloropropan	45	6.484	6.420	0.064	86	295653	20.0	19.5	
39 N-Nitrosopyrrolidine	100	6.575	6.506	0.069	93	155122	20.0	20.8	
40 Acetophenone	105	6.607	6.543	0.064	83	534473	20.0	19.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.607	6.543	0.064	63	261060	20.0	20.2	
42 4-Methylphenol	108	6.613	6.549	0.064	73	350167	20.0	20.1	
45 Hexachloroethane	117	6.730	6.661	0.069	91	192976	20.0	20.2	
46 Nitrobenzene	77	6.778	6.714	0.064	85	431354	20.0	20.2	
48 Isophorone	82	7.019	6.955	0.064	99	703445	20.0	20.5	
49 2-Nitrophenol	139	7.099	7.040	0.059	98	203813	20.0	20.4	
50 2,4-Dimethylphenol	107	7.136	7.078	0.058	98	432064	20.0	20.4	
52 Benzoic acid	122	7.195	7.126	0.069	87	152788	20.0	17.1	
53 Bis(2-chloroethoxy)methane	93	7.222	7.168	0.054	99	426156	20.0	20.0	
54 2,4-Dichlorophenol	162	7.339	7.281	0.058	95	359348	20.0	20.9	
56 1,2,4-Trichlorobenzene	180	7.425	7.366	0.059	93	442701	20.0	20.0	
58 Naphthalene	128	7.505	7.446	0.059	97	1222921	20.0	20.0	
59 4-Chloroaniline	127	7.547	7.489	0.058	95	493367	20.0	20.5	
60 2,6-Dichlorophenol	162	7.558	7.500	0.058	96	350413	20.0	20.5	
62 Hexachlorobutadiene	225	7.628	7.574	0.054	94	321270	20.0	20.2	
64 Caprolactam	113	7.852	7.788	0.064	87	101900	20.0	21.1	
67 4-Chloro-3-methylphenol	107	8.002	7.943	0.059	94	387246	20.0	21.1	
69 2-Methylnaphthalene	142	8.172	8.119	0.053	91	890372	20.0	19.9	
71 1-Methylnaphthalene	142	8.274	8.215	0.059	96	773454	20.0	19.9	
72 Hexachlorocyclopentadiene	237	8.333	8.280	0.053	95	359967	20.0	21.3	
73 1,2,4,5-Tetrachlorobenzene	216	8.338	8.285	0.053	97	515477	20.0	20.3	
74 2,4,6-Trichlorophenol	196	8.440	8.386	0.054	91	282164	20.0	21.3	
75 2,4,5-Trichlorophenol	196	8.477	8.418	0.059	94	310100	20.0	21.9	
76 1,1'-Biphenyl	154	8.616	8.563	0.053	95	1093083	20.0	20.2	
77 2-Chloronaphthalene	162	8.648	8.595	0.053	97	819668	20.0	20.0	
79 2-Nitroaniline	65	8.728	8.675	0.053	79	249067	20.0	21.9	
82 Dimethyl phthalate	163	8.888	8.835	0.053	98	913141	20.0	20.4	
83 1,3-Dinitrobenzene	168	8.920	8.867	0.053	87	144831	20.0	20.9	
84 2,6-Dinitrotoluene	165	8.952	8.894	0.058	95	210616	20.0	21.0	
85 Acenaphthylene	152	9.049	8.995	0.054	98	1324601	20.0	20.5	
86 3-Nitroaniline	138	9.118	9.065	0.053	92	212698	20.0	21.1	
87 2,4-Dinitrophenol	184	9.214	9.161	0.053	67	262062	40.0	34.9	
88 Acenaphthene	153	9.214	9.161	0.053	89	882731	20.0	20.0	
89 4-Nitrophenol	109	9.252	9.198	0.054	92	301156	40.0	41.5	
91 2,4-Dinitrotoluene	165	9.337	9.284	0.053	93	287358	20.0	20.3	
93 Dibenzofuran	168	9.380	9.327	0.053	96	1265525	20.0	19.9	
95 2,3,5,6-Tetrachlorophenol	232	9.449	9.396	0.053	93	280423	20.0	20.5	
96 2,3,4,6-Tetrachlorophenol	232	9.492	9.439	0.053	72	281807	20.0	20.8	
97 2-Naphthylamine	143	9.519	9.466	0.053	95	832157	20.0	20.7	
98 Diethyl phthalate	149	9.556	9.503	0.053	98	934356	20.0	20.4	
99 Hexadecane	57	9.561	9.514	0.047	92	505124	20.0	20.6	
100 4-Chlorophenyl phenyl ethe	204	9.690	9.636	0.054	91	548867	20.0	19.9	
101 4-Nitroaniline	138	9.700	9.647	0.053	85	227809	20.0	20.4	
103 Fluorene	166	9.706	9.658	0.048	93	1034271	20.0	19.9	
104 4,6-Dinitro-2-methylphenol	198	9.732	9.679	0.053	90	376550	40.0	40.8	
105 N-Nitrosodiphenylamine	169	9.797	9.743	0.054	61	1531602	40.0	40.6	
90 1,2-Diphenylhydrazine	77	9.839	9.786	0.053	98	1046464	20.0	20.5	
57 Azobenzene	77	9.839	9.786	0.053	98	1046464	20.0	20.5	
110 4-Bromophenyl phenyl ether	248	10.154	10.107	0.047	64	304538	20.0	20.1	
112 Hexachlorobenzene	284	10.245	10.192	0.053	92	284825	20.0	19.8	
113 Atrazine	200	10.277	10.229	0.048	94	302744	20.0	20.7	
116 Pentachlorophenol	266	10.422	10.368	0.054	90	385498	40.0	39.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.432	10.384	0.048	95	557592	20.0	20.5	
121 Phenanthrene	178	10.646	10.593	0.053	97	1585431	20.0	19.7	
122 Anthracene	178	10.699	10.646	0.053	97	1632655	20.0	20.7	
124 Carbazole	167	10.849	10.796	0.053	96	1402210	20.0	20.6	
126 Di-n-butyl phthalate	149	11.175	11.122	0.053	100	1533243	20.0	20.2	
131 Fluoranthene	202	12.040	11.982	0.058	97	1769801	20.0	20.2	
132 Benzidine	184	12.179	12.121	0.058	99	604145	20.0	17.4	
133 Pyrene	202	12.361	12.302	0.059	98	1817383	20.0	20.5	
138 Butyl benzyl phthalate	149	13.280	13.210	0.070	98	632910	20.0	21.3	
144 3,3'-Dichlorobenzidine	252	14.263	14.188	0.075	74	547194	20.0	19.5	
145 Bis(2-ethylhexyl) phthalat	149	14.321	14.247	0.074	96	895485	20.0	19.9	
146 Benzo[a]anthracene	228	14.332	14.263	0.069	98	1802182	20.0	20.4	
147 Chrysene	228	14.402	14.327	0.075	97	1665530	20.0	20.2	
150 Di-n-octyl phthalate	149	15.614	15.540	0.074	99	1367652	20.0	18.6	
151 7,12-Dimethylbenz(a)anthra	256	16.437	16.357	0.080	91	760124	20.0	21.7	
152 Benzo[b]fluoranthene	252	16.453	16.373	0.080	97	1702232	20.0	21.0	
153 Benzo[k]fluoranthene	252	16.506	16.426	0.080	99	1711220	20.0	21.0	
219 Benzo[e]pyrene	252	17.003	16.929	0.074	0	1560075	20.0	21.1	
154 Benzo[a]pyrene	252	17.105	17.030	0.075	77	1596726	20.0	21.2	
157 Indeno[1,2,3-cd]pyrene	276	19.546	19.450	0.096	99	1715504	20.0	21.9	
158 Dibenz(a,h)anthracene	278	19.589	19.482	0.107	89	1390642	20.0	21.9	
159 Benzo[g,h,i]perylene	276	20.219	20.107	0.112	98	1464342	20.0	22.0	
S 197 Methyl Phenols,Total	108				0		40.0	40.5	
S 199 Total Cresols	108				0		40.0	40.5	

Reagents:

SVTAPSTD20i_00007 Amount Added: 1.00 Units: mL

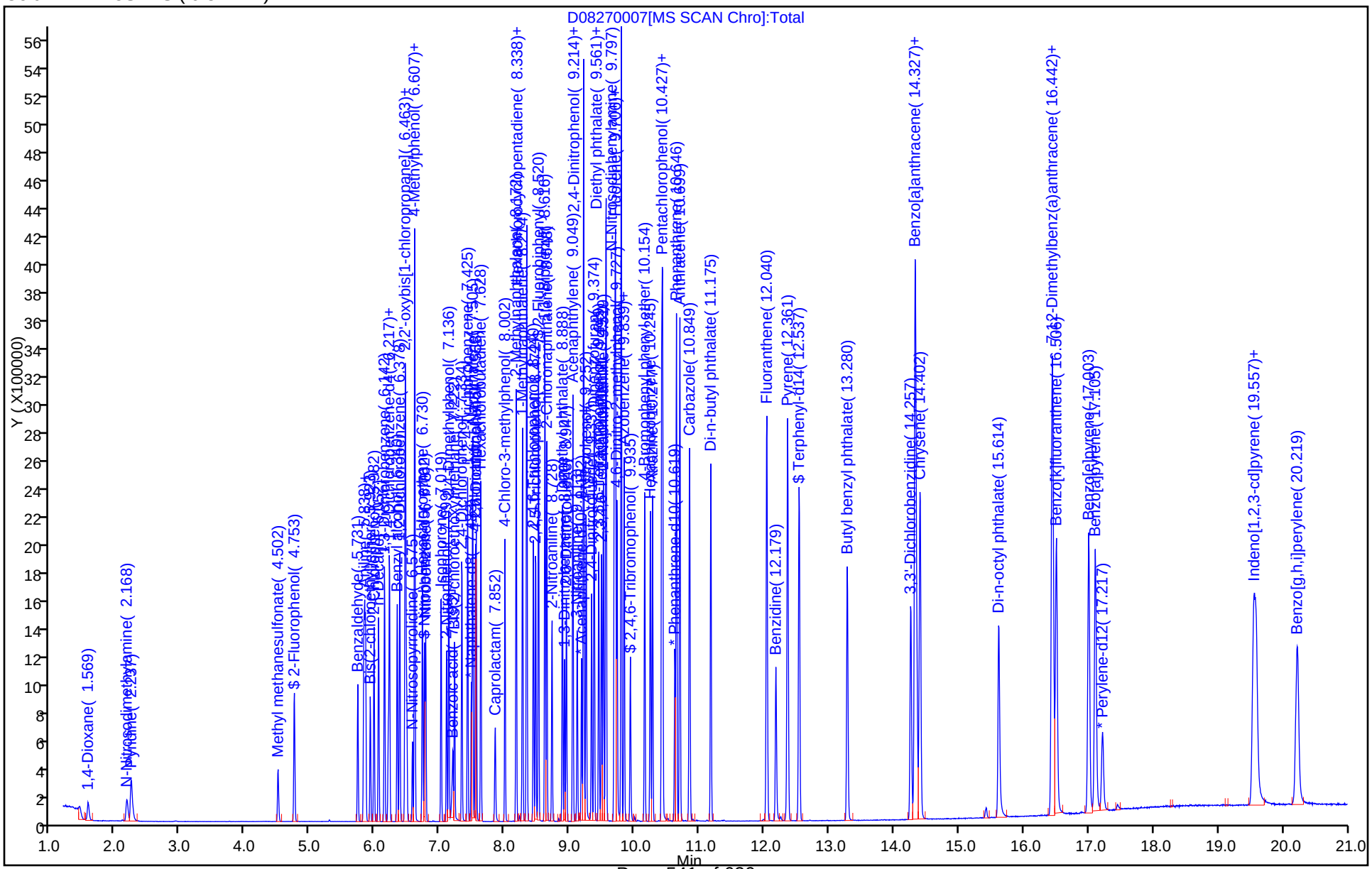
Report Date: 27-Aug-2015 10:16:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270007.D

Injection Date:	27-Aug-2015 07:23:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Aug-2015 07:49:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-008
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:16:16 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 08:53:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.137	6.132	0.005	96	100649	8.00	8.00	
* 2 Naphthalene-d8	136	7.430	7.425	0.005	99	386485	8.00	8.00	
* 3 Acenaphthene-d10	164	9.140	9.129	0.011	92	259623	8.00	8.00	
* 4 Phenanthrene-d10	188	10.577	10.571	0.006	97	507109	8.00	8.00	
* 5 Chrysene-d12	240	14.290	14.279	0.011	97	566470	8.00	8.00	
* 6 Perylene-d12	264	17.153	17.137	0.016	97	499435	8.00	8.00	
$ 7 2-Fluorophenol	112	4.668	4.658	0.010	91	586128	40.0	41.9	
$ 8 Phenol-d5	99	5.758	5.747	0.011	97	776609	40.0	40.9	
$ 9 Nitrobenzene-d5	82	6.704	6.698	0.006	87	792718	40.0	41.1	
$ 10 2-Fluorobiphenyl	172	8.472	8.467	0.005	100	1969852	40.0	40.9	
$ 11 2,4,6-Tribromophenol	330	9.893	9.888	0.005	87	212962	40.0	42.3	
$ 12 Terphenyl-d14	244	12.484	12.473	0.011	99	2455660	40.0	41.7	
13 1,4-Dioxane	88	1.474	1.468	0.006	87	197373	40.0	37.1	
14 N-Nitrosodimethylamine	74	2.045	2.029	0.016	93	253670	40.0	40.7	
15 Pyridine	79	2.115	2.099	0.016	95	499963	40.0	41.8	
21 Methyl methanesulfonate	80	4.412	4.401	0.011	88	322115	40.0	39.9	
25 Benzaldehyde	77	5.662	5.656	0.006	97	398700	40.0	39.7	
26 Phenol	94	5.774	5.763	0.011	97	865978	40.0	39.5	
27 Aniline	93	5.785	5.779	0.006	93	982866	40.0	40.1	
29 Bis(2-chloroethyl)ether	93	5.860	5.854	0.006	98	572881	40.0	39.7	
30 2-Chlorophenol	128	5.918	5.908	0.010	95	683452	40.0	41.3	
31 n-Decane	43	5.988	5.982	0.006	83	462126	40.0	39.7	
32 1,3-Dichlorobenzene	146	6.079	6.073	0.006	96	838054	40.0	39.5	
33 1,4-Dichlorobenzene	146	6.159	6.153	0.006	93	865696	40.0	39.6	
34 Benzyl alcohol	108	6.282	6.271	0.011	90	420998	40.0	42.1	
35 1,2-Dichlorobenzene	146	6.319	6.308	0.011	96	817664	40.0	39.3	
36 2-Methylphenol	108	6.404	6.394	0.010	95	623578	40.0	40.8	
37 Indene	116	6.410	6.404	0.006	88	1242631	40.0	39.3	
38 2,2'-oxybis[1-chloropropan	45	6.426	6.420	0.006	86	544169	40.0	38.9	
39 N-Nitrosopyrrolidine	100	6.517	6.506	0.011	94	289452	40.0	42.0	
40 Acetophenone	105	6.549	6.543	0.006	83	978138	40.0	38.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.554	6.543	0.011	64	469708	40.0	39.3	
42 4-Methylphenol	108	6.554	6.549	0.005	72	652399	40.0	40.6	
45 Hexachloroethane	117	6.672	6.661	0.011	90	353182	40.0	39.9	
46 Nitrobenzene	77	6.725	6.714	0.011	85	783975	40.0	40.1	
48 Isophorone	82	6.960	6.955	0.005	99	1335266	40.0	42.4	
49 2-Nitrophenol	139	7.046	7.040	0.006	98	387330	40.0	42.3	
50 2,4-Dimethylphenol	107	7.083	7.078	0.005	98	813583	40.0	42.0	
52 Benzoic acid	122	7.163	7.126	0.037	87	346724	40.0	37.0	
53 Bis(2-chloroethoxy)methane	93	7.174	7.168	0.006	99	792988	40.0	40.7	
54 2,4-Dichlorophenol	162	7.286	7.281	0.005	94	676586	40.0	43.0	
56 1,2,4-Trichlorobenzene	180	7.377	7.366	0.011	93	827436	40.0	40.7	
58 Naphthalene	128	7.452	7.446	0.006	97	2255631	40.0	40.2	
59 4-Chloroaniline	127	7.494	7.489	0.005	95	927024	40.0	42.1	
60 2,6-Dichlorophenol	162	7.510	7.500	0.010	98	661302	40.0	42.2	
62 Hexachlorobutadiene	225	7.580	7.574	0.006	94	592088	40.0	40.6	
64 Caprolactam	113	7.804	7.788	0.016	88	201093	40.0	45.4	
67 4-Chloro-3-methylphenol	107	7.954	7.943	0.011	94	733035	40.0	43.7	
69 2-Methylnaphthalene	142	8.125	8.119	0.006	92	1669295	40.0	40.7	
71 1-Methylnaphthalene	142	8.226	8.215	0.011	92	1442023	40.0	40.4	
72 Hexachlorocyclopentadiene	237	8.285	8.280	0.005	94	715858	40.0	44.6	
73 1,2,4,5-Tetrachlorobenzene	216	8.290	8.285	0.005	96	981820	40.0	40.8	
74 2,4,6-Trichlorophenol	196	8.392	8.386	0.006	92	559680	40.0	44.5	
75 2,4,5-Trichlorophenol	196	8.429	8.418	0.011	94	590477	40.0	43.9	
76 1,1'-Biphenyl	154	8.573	8.563	0.010	94	2092034	40.0	40.7	
77 2-Chloronaphthalene	162	8.600	8.595	0.005	96	1588013	40.0	40.9	
79 2-Nitroaniline	65	8.680	8.675	0.005	80	484793	40.0	44.8	
82 Dimethyl phthalate	163	8.846	8.835	0.011	99	1824153	40.0	42.8	
83 1,3-Dinitrobenzene	168	8.878	8.867	0.011	87	287597	40.0	43.6	
84 2,6-Dinitrotoluene	165	8.905	8.894	0.011	95	414440	40.0	43.5	
85 Acenaphthylene	152	9.001	8.995	0.006	98	2580374	40.0	42.0	
86 3-Nitroaniline	138	9.070	9.065	0.005	91	419862	40.0	43.8	
88 Acenaphthene	153	9.172	9.161	0.011	88	1705375	40.0	40.7	
87 2,4-Dinitrophenol	184	9.172	9.161	0.011	69	604486	80.0	79.7	
89 4-Nitrophenol	109	9.214	9.198	0.016	91	608398	80.0	88.3	
91 2,4-Dinitrotoluene	165	9.295	9.284	0.011	93	575971	40.0	42.9	
93 Dibenzofuran	168	9.332	9.327	0.005	97	2510650	40.0	41.5	
95 2,3,5,6-Tetrachlorophenol	232	9.401	9.396	0.005	93	570841	40.0	44.0	
96 2,3,4,6-Tetrachlorophenol	232	9.444	9.439	0.005	71	558343	40.0	43.4	
97 2-Naphthylamine	143	9.476	9.466	0.010	95	1690393	40.0	44.3	
98 Diethyl phthalate	149	9.514	9.503	0.011	98	1830833	40.0	42.2	
99 Hexadecane	57	9.519	9.514	0.005	92	910814	40.0	40.5	
100 4-Chlorophenyl phenyl ethe	204	9.647	9.636	0.011	91	1070906	40.0	40.8	
101 4-Nitroaniline	138	9.658	9.647	0.011	81	457519	40.0	43.1	
103 Fluorene	166	9.663	9.658	0.005	94	2058565	40.0	41.6	
104 4,6-Dinitro-2-methylphenol	198	9.690	9.679	0.011	92	841937	80.0	92.8	
105 N-Nitrosodiphenylamine	169	9.754	9.743	0.011	61	3054825	80.0	82.2	
90 1,2-Diphenylhydrazine	77	9.797	9.786	0.011	98	2019882	40.0	40.2	
57 Azobenzene	77	9.797	9.786	0.011	98	2019882	40.0	40.2	
110 4-Bromophenyl phenyl ether	248	10.117	10.107	0.010	64	613479	40.0	41.2	
112 Hexachlorobenzene	284	10.203	10.192	0.011	92	575078	40.0	40.6	
113 Atrazine	200	10.240	10.229	0.011	95	632646	40.0	43.9	
116 Pentachlorophenol	266	10.379	10.368	0.011	90	825885	80.0	86.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.390	10.384	0.006	95	1042593	40.0	41.4	
121 Phenanthrene	178	10.603	10.593	0.010	97	3232327	40.0	40.9	
122 Anthracene	178	10.657	10.646	0.011	97	3289228	40.0	42.3	
124 Carbazole	167	10.806	10.796	0.010	96	2865524	40.0	42.7	
126 Di-n-butyl phthalate	149	11.132	11.122	0.010	100	3254336	40.0	43.5	
131 Fluoranthene	202	11.987	11.982	0.005	97	3719899	40.0	43.1	
132 Benzidine	184	12.126	12.121	0.005	99	1612161	40.0	41.1	
133 Pyrene	202	12.308	12.302	0.006	98	3808141	40.0	41.4	
138 Butyl benzyl phthalate	149	13.221	13.210	0.011	97	1399738	40.0	45.4	
144 3,3'-Dichlorobenzidine	252	14.199	14.188	0.011	75	1251216	40.0	41.6	
145 Bis(2-ethylhexyl) phthalat	149	14.258	14.247	0.011	96	1984257	40.0	41.4	
146 Benzo[a]anthracene	228	14.274	14.263	0.011	98	3846103	40.0	41.9	
147 Chrysene	228	14.343	14.327	0.016	97	3567125	40.0	41.6	
150 Di-n-octyl phthalate	149	15.550	15.540	0.010	99	3308014	40.0	40.0	
151 7,12-Dimethylbenz(a)anthra	256	16.373	16.357	0.016	92	1660846	40.0	44.3	
152 Benzo[b]fluoranthene	252	16.394	16.373	0.021	97	3636264	40.0	41.9	
153 Benzo[k]fluoranthene	252	16.443	16.426	0.017	99	3794541	40.0	43.6	
219 Benzo[e]pyrene	252	16.945	16.929	0.016	0	3398497	40.0	42.8	
154 Benzo[a]pyrene	252	17.046	17.030	0.016	77	3500034	40.0	43.5	
157 Indeno[1,2,3-cd]pyrene	276	19.472	19.450	0.022	99	3791364	40.0	45.1	
158 Dibenz(a,h)anthracene	278	19.504	19.482	0.022	88	3047446	40.0	44.8	
159 Benzo[g,h,i]perylene	276	20.139	20.107	0.032	98	3173770	40.0	44.5	
S 197 Methyl Phenols,Total	108				0		80.0	81.4	
S 199 Total Cresols	108				0		80.0	81.4	

Reagents:

SVTAPSTD40i_00007 Amount Added: 1.00 Units: mL

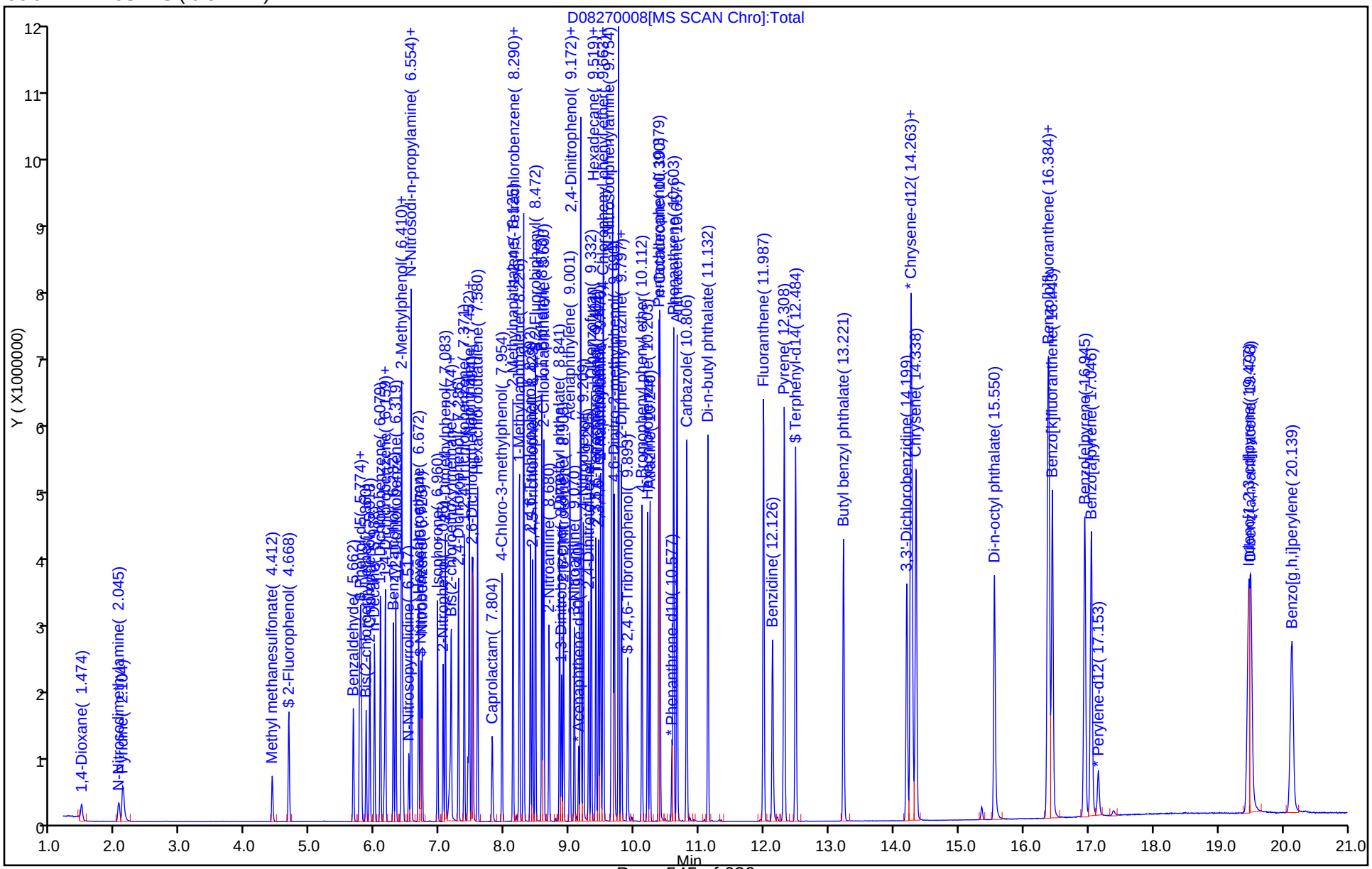
Report Date: 27-Aug-2015 10:16:18 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270008.D

Injection Date:	27-Aug-2015 07:49:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Aug-2015 08:16:30 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-009
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:16:30 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 08:55:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.132	6.132	0.000	96	98670	8.00	8.00	
* 2 Naphthalene-d8	136	7.425	7.425	0.000	99	388441	8.00	8.00	
* 3 Acenaphthene-d10	164	9.134	9.129	0.005	92	266086	8.00	8.00	
* 4 Phenanthrene-d10	188	10.571	10.571	0.000	97	510474	8.00	8.00	
* 5 Chrysene-d12	240	14.290	14.279	0.011	97	585058	8.00	8.00	
* 6 Perylene-d12	264	17.148	17.137	0.011	97	525798	8.00	8.00	
$ 7 2-Fluorophenol	112	4.658	4.658	0.000	91	867016	60.0	63.2	
$ 8 Phenol-d5	99	5.753	5.747	0.006	97	1169982	60.0	62.9	
$ 9 Nitrobenzene-d5	82	6.698	6.698	0.000	87	1199362	60.0	61.9	
$ 10 2-Fluorobiphenyl	172	8.467	8.467	0.000	100	3010856	60.0	60.9	
$ 11 2,4,6-Tribromophenol	330	9.888	9.888	0.000	88	338544	60.0	66.8	
$ 12 Terphenyl-d14	244	12.479	12.473	0.006	98	3792701	60.0	62.3	
13 1,4-Dioxane	88	1.458	1.468	-0.010	87	288446	60.0	55.3	
14 N-Nitrosodimethylamine	74	2.029	2.029	0.000	92	380332	60.0	62.2	
15 Pyridine	79	2.099	2.099	0.000	96	738438	60.0	63.0	
21 Methyl methanesulfonate	80	4.401	4.401	0.000	88	466879	60.0	59.0	
25 Benzaldehyde	77	5.657	5.656	0.001	96	588634	60.0	59.7	
26 Phenol	94	5.769	5.763	0.006	97	1291671	60.0	60.1	
27 Aniline	93	5.780	5.779	0.001	92	1474988	60.0	61.4	
29 Bis(2-chloroethyl)ether	93	5.854	5.854	0.000	98	856257	60.0	60.5	
30 2-Chlorophenol	128	5.913	5.908	0.005	95	1024174	60.0	63.1	
31 n-Decane	43	5.983	5.982	0.000	83	678383	60.0	59.4	
32 1,3-Dichlorobenzene	146	6.073	6.073	0.000	96	1283590	60.0	61.6	
33 1,4-Dichlorobenzene	146	6.153	6.153	0.000	94	1324513	60.0	61.7	
34 Benzyl alcohol	108	6.276	6.271	0.005	90	638480	60.0	65.2	
35 1,2-Dichlorobenzene	146	6.308	6.308	0.000	96	1240263	60.0	60.8	
36 2-Methylphenol	108	6.399	6.394	0.005	96	935730	60.0	62.4	
37 Indene	116	6.405	6.404	0.001	88	1889719	60.0	61.0	
38 2,2'-oxybis[1-chloropropan	45	6.421	6.420	0.001	86	803211	60.0	58.5	
39 N-Nitrosopyrrolidine	100	6.517	6.506	0.011	94	445429	60.0	65.9	
40 Acetophenone	105	6.549	6.543	0.006	84	1443811	60.0	58.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.549	6.543	0.006	66	675770	60.0	57.7	
42 4-Methylphenol	108	6.549	6.549	0.000	86	954217	60.0	60.5	
45 Hexachloroethane	117	6.666	6.661	0.005	90	530835	60.0	61.2	
46 Nitrobenzene	77	6.720	6.714	0.006	85	1162575	60.0	59.1	
48 Isophorone	82	6.955	6.955	0.000	99	1998697	60.0	63.2	
49 2-Nitrophenol	139	7.040	7.040	0.000	98	591362	60.0	64.3	
50 2,4-Dimethylphenol	107	7.078	7.078	0.000	98	1219307	60.0	62.6	
52 Benzoic acid	122	7.174	7.126	0.048	87	604130	60.0	61.5	
53 Bis(2-chloroethoxy)methane	93	7.168	7.168	0.000	99	1161191	60.0	59.3	
54 2,4-Dichlorophenol	162	7.281	7.281	0.000	94	1023138	60.0	64.7	
56 1,2,4-Trichlorobenzene	180	7.371	7.366	0.005	93	1242664	60.0	60.9	
58 Naphthalene	128	7.446	7.446	0.000	97	3434071	60.0	61.0	
59 4-Chloroaniline	127	7.489	7.489	0.000	95	1404773	60.0	63.5	
60 2,6-Dichlorophenol	162	7.505	7.500	0.005	98	995809	60.0	63.3	
62 Hexachlorobutadiene	225	7.574	7.574	0.000	93	907594	60.0	61.9	
64 Caprolactam	113	7.810	7.788	0.022	87	311353	60.0	69.9	
67 4-Chloro-3-methylphenol	107	7.954	7.943	0.011	94	1114851	60.0	66.1	
69 2-Methylnaphthalene	142	8.119	8.119	0.000	92	2526821	60.0	61.4	
71 1-Methylnaphthalene	142	8.221	8.215	0.006	93	2205431	60.0	61.5	
72 Hexachlorocyclopentadiene	237	8.280	8.280	0.000	95	1113755	60.0	67.6	
73 1,2,4,5-Tetrachlorobenzene	216	8.285	8.285	0.000	96	1493415	60.0	60.5	
74 2,4,6-Trichlorophenol	196	8.392	8.386	0.006	91	859867	60.0	66.7	
75 2,4,5-Trichlorophenol	196	8.424	8.418	0.006	93	913214	60.0	66.3	
76 1,1'-Biphenyl	154	8.568	8.563	0.005	94	3228436	60.0	61.3	
77 2-Chloronaphthalene	162	8.595	8.595	0.000	96	2437561	60.0	61.2	
79 2-Nitroaniline	65	8.675	8.675	0.000	81	723186	60.0	65.2	
82 Dimethyl phthalate	163	8.841	8.835	0.006	99	2784740	60.0	63.8	
83 1,3-Dinitrobenzene	168	8.873	8.867	0.006	88	459895	60.0	68.1	
84 2,6-Dinitrotoluene	165	8.899	8.894	0.005	95	647956	60.0	66.4	
85 Acenaphthylene	152	9.001	8.995	0.006	98	3965951	60.0	63.0	
86 3-Nitroaniline	138	9.070	9.065	0.005	92	639039	60.0	65.0	
88 Acenaphthene	153	9.166	9.161	0.005	87	2622396	60.0	61.0	
87 2,4-Dinitrophenol	184	9.166	9.161	0.005	70	958993	120.0	121.3	
89 4-Nitrophenol	109	9.209	9.198	0.011	91	928205	120.0	131.4	
91 2,4-Dinitrotoluene	165	9.289	9.284	0.005	93	887387	60.0	64.5	
93 Dibenzofuran	168	9.327	9.327	0.000	97	3823243	60.0	61.7	
95 2,3,5,6-Tetrachlorophenol	232	9.402	9.396	0.006	92	895895	60.0	67.3	
96 2,3,4,6-Tetrachlorophenol	232	9.444	9.439	0.005	71	882967	60.0	66.9	
97 2-Naphthylamine	143	9.471	9.466	0.005	96	2615066	60.0	66.9	
98 Diethyl phthalate	149	9.514	9.503	0.011	98	2869830	60.0	64.5	
99 Hexadecane	57	9.519	9.514	0.005	92	1328786	60.0	58.8	
100 4-Chlorophenyl phenyl ethe	204	9.642	9.636	0.006	89	1662715	60.0	61.9	
101 4-Nitroaniline	138	9.658	9.647	0.011	55	704181	60.0	64.8	
103 Fluorene	166	9.658	9.658	0.000	94	3147911	60.0	62.1	
104 4,6-Dinitro-2-methylphenol	198	9.685	9.679	0.006	92	1304345	120.0	142.8	
105 N-Nitrosodiphenylamine	169	9.749	9.743	0.006	60	4772991	120.0	127.6	
90 1,2-Diphenylhydrazine	77	9.792	9.786	0.006	98	3071727	60.0	60.7	
57 Azobenzene	77	9.792	9.786	0.006	98	3071727	60.0	60.7	
110 4-Bromophenyl phenyl ether	248	10.112	10.107	0.005	63	953903	60.0	63.7	
112 Hexachlorobenzene	284	10.198	10.192	0.006	93	886391	60.0	62.1	
113 Atrazine	200	10.235	10.229	0.006	94	974356	60.0	67.1	
116 Pentachlorophenol	266	10.374	10.368	0.006	91	1340193	120.0	138.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.390	10.384	0.006	95	1512839	60.0	61.2	
121 Phenanthrene	178	10.598	10.593	0.005	97	4901195	60.0	61.6	
122 Anthracene	178	10.652	10.646	0.006	96	5081227	60.0	64.9	
124 Carbazole	167	10.801	10.796	0.005	95	4369754	60.0	64.7	
126 Di-n-butyl phthalate	149	11.127	11.122	0.005	100	5009737	60.0	66.5	
131 Fluoranthene	202	11.987	11.982	0.005	96	5743660	60.0	66.1	
132 Benzidine	184	12.126	12.121	0.005	98	2643104	60.0	64.0	
133 Pyrene	202	12.308	12.302	0.006	98	5856402	60.0	61.6	
138 Butyl benzyl phthalate	149	13.216	13.210	0.006	96	2177555	60.0	68.4	
144 3,3'-Dichlorobenzidine	252	14.199	14.188	0.011	70	1989026	60.0	63.6	
145 Bis(2-ethylhexyl) phthalat	149	14.252	14.247	0.005	94	3081046	60.0	61.8	
146 Benzo[a]anthracene	228	14.268	14.263	0.005	96	6061874	60.0	63.9	
147 Chrysene	228	14.343	14.327	0.016	93	5505322	60.0	62.2	
150 Di-n-octyl phthalate	149	15.550	15.540	0.010	98	5290377	60.0	59.9	
151 7,12-Dimethylbenz(a)anthra	256	16.379	16.357	0.021	66	2635748	60.0	66.8	
152 Benzo[b]fluoranthene	252	16.395	16.373	0.022	93	5788634	60.0	63.3	
153 Benzo[k]fluoranthene	252	16.448	16.426	0.022	85	5793731	60.0	63.2	
219 Benzo[e]pyrene	252	16.939	16.929	0.010	0	5316287	60.0	63.6	
154 Benzo[a]pyrene	252	17.046	17.030	0.016	71	5451543	60.0	64.3	
157 Indeno[1,2,3-cd]pyrene	276	19.472	19.450	0.022	95	5931182	60.0	67.1	
158 Dibenz(a,h)anthracene	278	19.509	19.482	0.027	66	4804793	60.0	67.0	
159 Benzo[g,h,i]perylene	276	20.145	20.107	0.038	95	4975714	60.0	66.2	
S 197 Methyl Phenols,Total	108				0		120.0	123.0	
S 199 Total Cresols	108				0		120.0	123.0	

Reagents:

SVTAPSTD60i_00007 Amount Added: 1.00 Units: mL

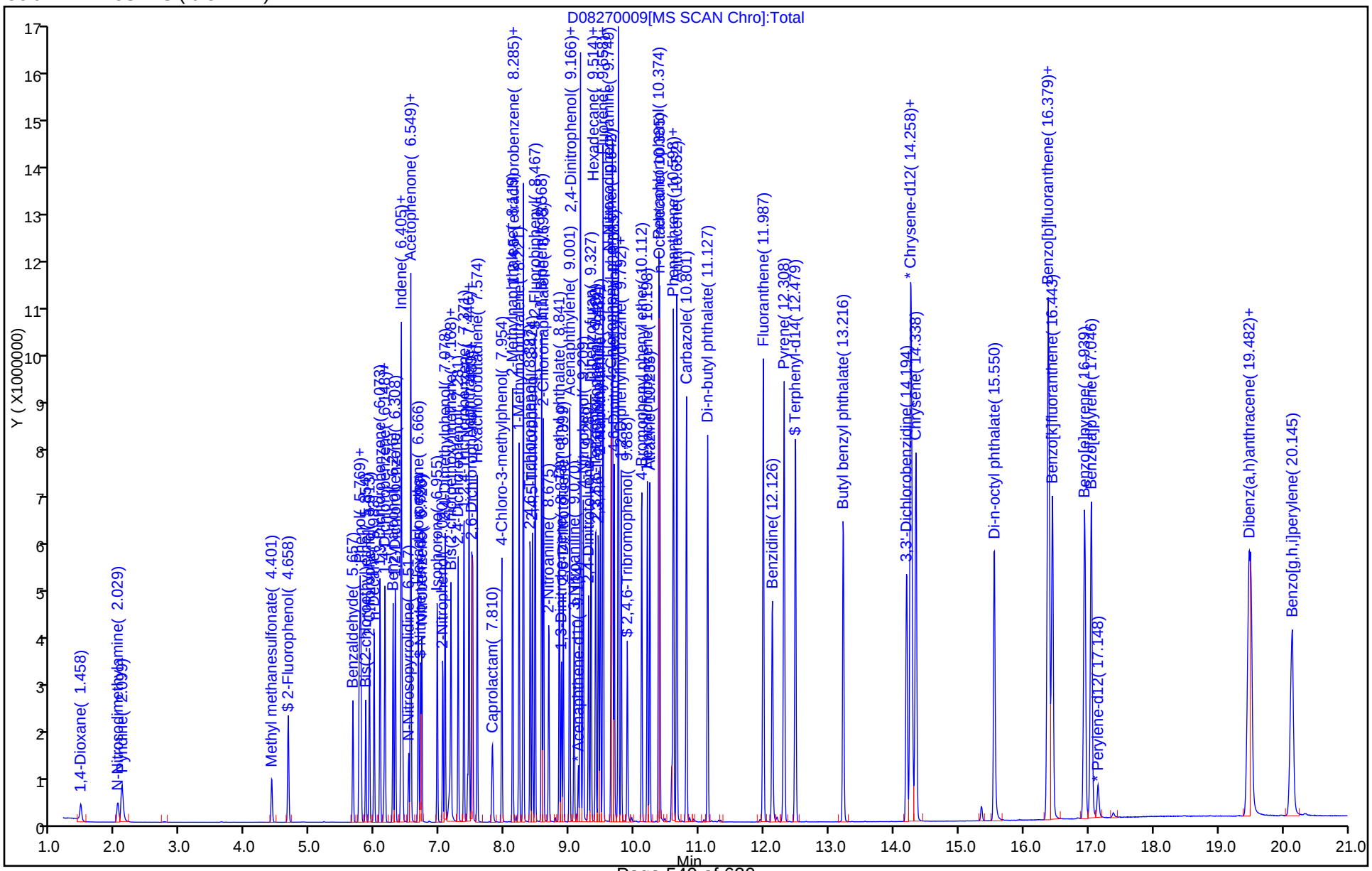
Report Date: 27-Aug-2015 10:16:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270009.D

Injection Date:	27-Aug-2015 08:16:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 27-Aug-2015 08:42:30 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-010
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:16:39 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: piccolinov Date: 27-Aug-2015 09:11:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.137	6.132	0.005	96	97525	8.00	8.00	
* 2 Naphthalene-d8	136	7.430	7.425	0.005	99	382473	8.00	8.00	
* 3 Acenaphthene-d10	164	9.134	9.129	0.005	91	270114	8.00	8.00	
* 4 Phenanthrene-d10	188	10.577	10.571	0.006	97	519187	8.00	8.00	
* 5 Chrysene-d12	240	14.295	14.279	0.016	97	597612	8.00	8.00	
* 6 Perylene-d12	264	17.153	17.137	0.016	97	532596	8.00	8.00	
$ 7 2-Fluorophenol	112	4.663	4.658	0.005	91	1155975	80.0	85.2	
$ 8 Phenol-d5	99	5.758	5.747	0.011	96	1528437	80.0	83.1	
$ 9 Nitrobenzene-d5	82	6.704	6.698	0.006	87	1560614	80.0	81.9	
$ 10 2-Fluorobiphenyl	172	8.472	8.467	0.005	100	4055390	80.0	80.8	
$ 11 2,4,6-Tribromophenol	330	9.893	9.888	0.005	90	468486	80.0	90.8	
$ 12 Terphenyl-d14	244	12.484	12.473	0.011	98	5113114	80.0	82.3	
13 1,4-Dioxane	88	1.468	1.468	0.000	87	369629	80.0	71.7	
14 N-Nitrosodimethylamine	74	2.045	2.029	0.016	93	496241	80.0	82.2	
15 Pyridine	79	2.109	2.099	0.010	95	958531	80.0	82.8	
21 Methyl methanesulfonate	80	4.412	4.401	0.011	88	618200	80.0	79.1	
25 Benzaldehyde	77	5.657	5.656	0.001	97	766535	80.0	78.7	
26 Phenol	94	5.774	5.763	0.011	98	1695423	80.0	79.8	
27 Aniline	93	5.785	5.779	0.006	98	1962166	80.0	82.7	
29 Bis(2-chloroethyl)ether	93	5.860	5.854	0.006	98	1116199	80.0	79.8	
30 2-Chlorophenol	128	5.918	5.908	0.010	95	1362952	80.0	85.0	
31 n-Decane	43	5.988	5.982	0.006	83	893665	80.0	79.2	
32 1,3-Dichlorobenzene	146	6.079	6.073	0.006	97	1689651	80.0	82.1	
33 1,4-Dichlorobenzene	146	6.153	6.153	0.000	94	1734372	80.0	81.8	
34 Benzyl alcohol	108	6.282	6.271	0.011	90	840398	80.0	86.8	
35 1,2-Dichlorobenzene	146	6.314	6.308	0.006	96	1649470	80.0	81.8	
36 2-Methylphenol	108	6.404	6.394	0.010	66	1220050	80.0	82.4	
37 Indene	116	6.404	6.404	0.000	88	2474423	80.0	80.8	
38 2,2'-oxybis[1-chloropropan	45	6.426	6.420	0.006	86	1055760	80.0	77.8	
39 N-Nitrosopyrrolidine	100	6.522	6.506	0.016	94	595856	80.0	89.2	
40 Acetophenone	105	6.549	6.543	0.006	93	1901165	80.0	78.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.554	6.543	0.011	65	887516	80.0	76.7	
42 4-Methylphenol	108	6.554	6.549	0.005	96	1261390	80.0	80.9	
45 Hexachloroethane	117	6.666	6.661	0.005	90	687341	80.0	80.2	
46 Nitrobenzene	77	6.725	6.714	0.011	85	1545827	80.0	79.8	
48 Isophorone	82	6.960	6.955	0.005	99	2641885	80.0	84.9	
49 2-Nitrophenol	139	7.046	7.040	0.006	97	797385	80.0	88.0	
50 2,4-Dimethylphenol	107	7.078	7.078	0.000	97	1600870	80.0	83.5	
52 Benzoic acid	122	7.184	7.126	0.058	87	831525	80.0	84.5	
53 Bis(2-chloroethoxy)methane	93	7.168	7.168	0.000	98	1546206	80.0	80.2	
54 2,4-Dichlorophenol	162	7.281	7.281	0.000	93	1361346	80.0	87.4	
56 1,2,4-Trichlorobenzene	180	7.371	7.366	0.005	93	1670736	80.0	83.1	
58 Naphthalene	128	7.452	7.446	0.006	97	4594941	80.0	82.8	
59 4-Chloroaniline	127	7.494	7.489	0.005	96	1870066	80.0	85.9	
60 2,6-Dichlorophenol	162	7.505	7.500	0.005	98	1327959	80.0	85.7	
62 Hexachlorobutadiene	225	7.574	7.574	0.000	93	1189781	80.0	82.4	
64 Caprolactam	113	7.815	7.788	0.027	88	413543	80.0	94.3	
67 4-Chloro-3-methylphenol	107	7.959	7.943	0.016	94	1463681	80.0	88.1	
69 2-Methylnaphthalene	142	8.125	8.119	0.006	92	3393152	80.0	83.7	
71 1-Methylnaphthalene	142	8.221	8.215	0.006	93	2939600	80.0	83.3	
72 Hexachlorocyclopentadiene	237	8.285	8.280	0.005	94	1503712	80.0	90.0	
73 1,2,4,5-Tetrachlorobenzene	216	8.290	8.285	0.005	95	1982696	80.0	79.1	
74 2,4,6-Trichlorophenol	196	8.392	8.386	0.006	91	1154683	80.0	88.2	
75 2,4,5-Trichlorophenol	196	8.429	8.418	0.011	94	1191881	80.0	85.2	
76 1,1'-Biphenyl	154	8.568	8.563	0.005	94	4314960	80.0	80.8	
77 2-Chloronaphthalene	162	8.600	8.595	0.005	96	3209389	80.0	79.4	
79 2-Nitroaniline	65	8.680	8.675	0.005	82	952726	80.0	84.6	
82 Dimethyl phthalate	163	8.846	8.835	0.011	99	3736676	80.0	84.3	
83 1,3-Dinitrobenzene	168	8.873	8.867	0.006	88	596953	80.0	87.0	
84 2,6-Dinitrotoluene	165	8.905	8.894	0.011	95	847318	80.0	85.6	
85 Acenaphthylene	152	9.001	8.995	0.006	98	5361869	80.0	83.9	
86 3-Nitroaniline	138	9.070	9.065	0.005	92	852923	80.0	85.5	
88 Acenaphthene	153	9.166	9.161	0.005	91	3507444	80.0	80.4	
87 2,4-Dinitrophenol	184	9.172	9.161	0.011	93	1351450	160.0	167.0	
89 4-Nitrophenol	109	9.214	9.198	0.016	90	1239225	160.0	172.9	
91 2,4-Dinitrotoluene	165	9.295	9.284	0.011	93	1186763	80.0	85.0	
93 Dibenzofuran	168	9.332	9.327	0.005	97	5176736	80.0	82.3	
95 2,3,5,6-Tetrachlorophenol	232	9.401	9.396	0.005	92	1212705	80.0	89.8	
96 2,3,4,6-Tetrachlorophenol	232	9.444	9.439	0.005	71	1201534	80.0	89.7	
97 2-Naphthylamine	143	9.476	9.466	0.010	96	3516424	80.0	88.6	
98 Diethyl phthalate	149	9.514	9.503	0.011	98	3788445	80.0	83.9	
99 Hexadecane	57	9.519	9.514	0.005	93	1689230	80.0	75.9	
100 4-Chlorophenyl phenyl ethe	204	9.642	9.636	0.006	89	2226097	80.0	81.6	
101 4-Nitroaniline	138	9.663	9.647	0.016	54	948636	80.0	85.9	
103 Fluorene	166	9.663	9.658	0.005	94	4228475	80.0	82.2	
104 4,6-Dinitro-2-methylphenol	198	9.690	9.679	0.011	93	1784464	160.0	192.1	
105 N-Nitrosodiphenylamine	169	9.754	9.743	0.011	60	6406001	160.0	168.4	
90 1,2-Diphenylhydrazine	77	9.797	9.786	0.011	97	3982021	80.0	77.3	
57 Azobenzene	77	9.797	9.786	0.011	97	3982021	80.0	77.3	
110 4-Bromophenyl phenyl ether	248	10.112	10.107	0.005	63	1300452	80.0	85.4	
112 Hexachlorobenzene	284	10.203	10.192	0.011	93	1193780	80.0	82.2	
113 Atrazine	200	10.240	10.229	0.011	94	1303874	80.0	88.3	
116 Pentachlorophenol	266	10.379	10.368	0.011	92	1866135	160.0	189.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.390	10.384	0.006	96	1954872	80.0	80.1	
121 Phenanthrene	178	10.603	10.593	0.010	97	6706452	80.0	82.8	
122 Anthracene	178	10.657	10.646	0.011	96	6874021	80.0	86.4	
124 Carbazole	167	10.806	10.796	0.010	95	5963353	80.0	86.8	
126 Di-n-butyl phthalate	149	11.132	11.122	0.010	100	6803759	80.0	88.8	
131 Fluoranthene	202	11.987	11.982	0.005	96	7747328	80.0	87.6	
132 Benzidine	184	12.126	12.121	0.005	98	3616899	80.0	84.9	
133 Pyrene	202	12.308	12.302	0.006	98	7939804	80.0	81.7	
138 Butyl benzyl phthalate	149	13.221	13.210	0.011	96	2948041	80.0	90.7	
144 3,3'-Dichlorobenzidine	252	14.199	14.188	0.011	67	2752277	80.0	85.7	
145 Bis(2-ethylhexyl) phthalat	149	14.258	14.247	0.011	94	4208095	80.0	82.3	
146 Benzo[a]anthracene	228	14.274	14.263	0.011	94	8325840	80.0	86.0	
147 Chrysene	228	14.343	14.327	0.016	93	7553430	80.0	83.5	
150 Di-n-octyl phthalate	149	15.550	15.540	0.010	98	7471302	80.0	83.0	
151 7,12-Dimethylbenz(a)anthra	256	16.384	16.357	0.027	68	3632337	80.0	90.9	
152 Benzo[b]fluoranthene	252	16.400	16.373	0.027	93	8354915	80.0	90.3	
153 Benzo[k]fluoranthene	252	16.453	16.426	0.027	85	7722175	80.0	83.2	
219 Benzo[e]pyrene	252	16.945	16.929	0.016	0	7319965	80.0	86.5	
154 Benzo[a]pyrene	252	17.052	17.030	0.022	71	7517239	80.0	87.5	
157 Indeno[1,2,3-cd]pyrene	276	19.488	19.450	0.038	93	8269617	80.0	92.3	
158 Dibenz(a,h)anthracene	278	19.509	19.482	0.027	62	6791957	80.0	93.6	
159 Benzo[g,h,i]perylene	276	20.155	20.107	0.048	94	6939445	80.0	91.2	
S 197 Methyl Phenols,Total	108				0		160.0	163.3	
S 199 Total Cresols	108				0		160.0	163.3	

Reagents:

SVTAPSTD80i_00007 Amount Added: 1.00 Units: mL

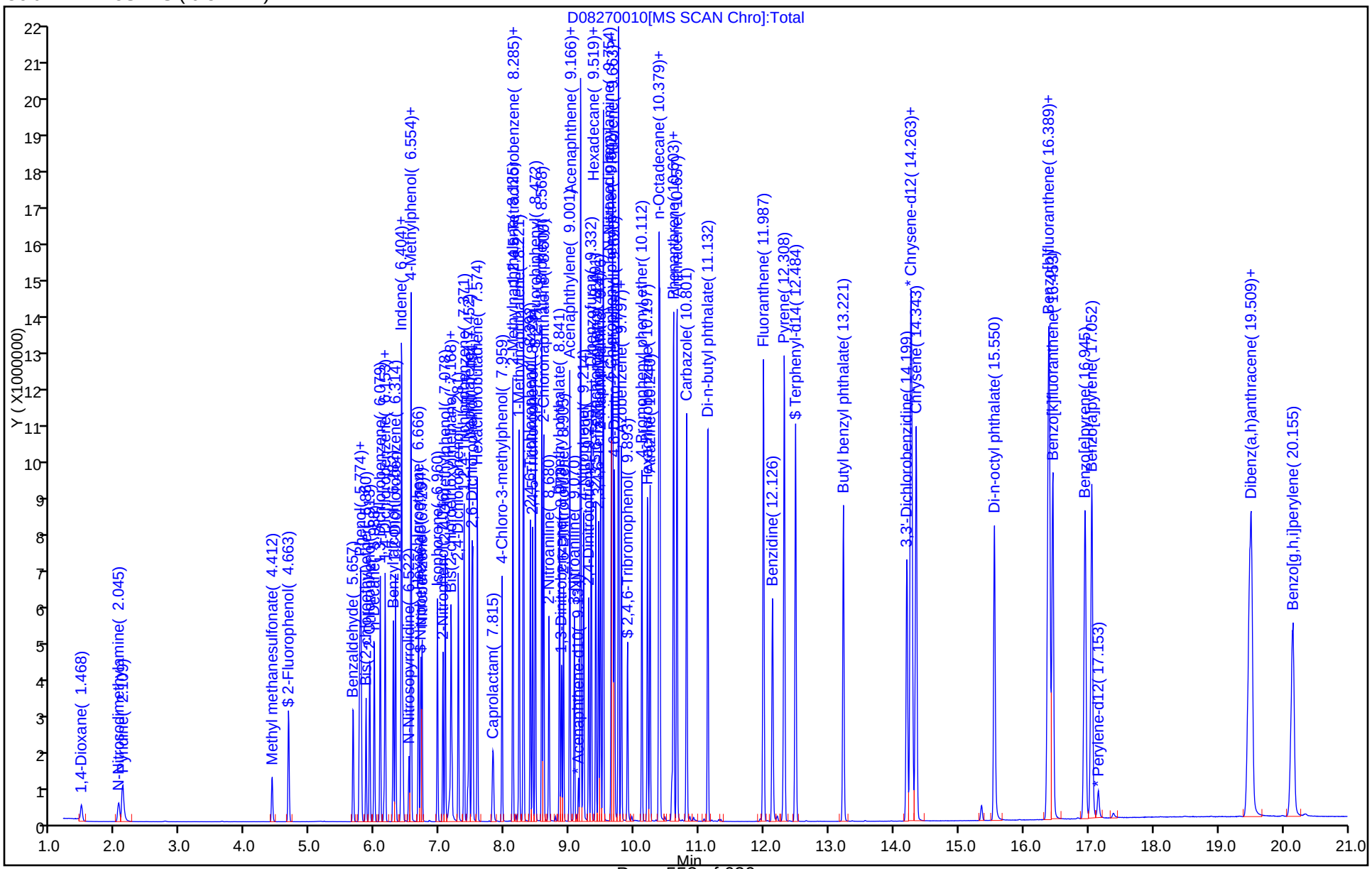
Report Date: 27-Aug-2015 10:16:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Injection Date:	27-Aug-2015 08:42:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155804/3 Calibration Date: 10/04/2015 16:17

Instrument ID: CH732 Calib Start Date: 08/27/2015 05:25

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/27/2015 08:42

Lab File ID: D10040003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4227	0.3834	0.0100	4.54	5.00	-9.3	20.0
N-Nitrosodimethylamine	Ave	0.4954	0.5061	0.0100	5.11	5.00	2.2	20.0
Pyridine	Ave	0.9499	0.9030	0.0100	4.75	5.00	-4.9	20.0
Methyl methanesulfonate	Ave	0.6412	0.6740	0.0100	5.26	5.00	5.1	20.0
Benzaldehyde	Ave	0.7991	1.089	0.0100	6.81	5.00	36.3*	20.0
Phenol	Ave	1.742	1.730	0.8000	4.97	5.00	-0.7	20.0
Aniline	Ave	1.947	1.959	0.0100	5.03	5.00	0.6	20.0
Bis(2-chloroethyl)ether	Ave	1.148	1.136	0.7000	4.95	5.00	-1.0	20.0
2-Chlorophenol	Ave	1.315	1.330	0.8000	5.06	5.00	1.1	20.0
n-Decane	Ave	0.9257	1.108		5.98	5.00	19.7	20.0
1,3-Dichlorobenzene	Ave	1.688	1.658	0.0100	4.91	5.00	-1.8	20.0
1,4-Dichlorobenzene	Ave	1.740	1.668	0.0100	4.79	5.00	-4.1	20.0
Benzyl alcohol	Ave	0.7944	0.8266	0.0100	5.20	5.00	4.0	20.0
1,2-Dichlorobenzene	Ave	1.654	1.655	0.0100	5.00	5.00	0.0	20.0
2-Methylphenol	Ave	1.215	1.269	0.7000	5.22	5.00	4.5	20.0
Indene	Ave	2.511	2.451	0.0100	4.88	5.00	-2.4	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.113	1.406	0.0100	6.32	5.00	26.4*	20.0
N-Nitrosopyrrolidine	Ave	0.5478	0.6019	0.0100	5.49	5.00	9.9	20.0
Acetophenone	Ave	2.000	2.010	0.0100	5.02	5.00	0.5	20.0
Methylphenol, 3 & 4	Ave	1.279	1.342	0.6000	5.25	5.00	4.9	20.0
N-Nitrosodi-n-propylamine	Ave	0.9493	1.054	0.5000	5.55	5.00	11.0	20.0
Hexachloroethane	Ave	0.7028	0.7101	0.3000	5.05	5.00	1.0	20.0
Nitrobenzene	Ave	0.4051	0.4440	0.2000	5.48	5.00	9.6	20.0
Isophorone	Ave	0.6512	0.7168	0.4000	5.50	5.00	10.1	20.0
2-Nitrophenol	Ave	0.1895	0.2033	0.1000	5.36	5.00	7.3	20.0
2,4-Dimethylphenol	Ave	0.4011	0.4251	0.2000	5.30	5.00	6.0	20.0
Benzoic acid	Lin1		0.1427	0.0100	5.14	5.00	2.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.4035	0.4029	0.3000	4.99	5.00	-0.2	20.0
2,4-Dichlorophenol	Ave	0.3257	0.3544	0.2000	5.44	5.00	8.8	20.0
1,2,4-Trichlorobenzene	Ave	0.4205	0.4350	0.0100	5.17	5.00	3.4	20.0
Naphthalene	Ave	1.160	1.168	0.7000	5.03	5.00	0.6	20.0
4-Chloroaniline	Ave	0.4554	0.4901	0.0100	5.38	5.00	7.6	20.0
2,6-Dichlorophenol	Ave	0.3242	0.3540	0.0100	5.46	5.00	9.2	20.0
Hexachlorobutadiene	Ave	0.3019	0.3112	0.0100	5.15	5.00	3.1	20.0
Caprolactam	Ave	0.0917	0.1030	0.0100	5.61	5.00	12.3	20.0
4-Chloro-3-methylphenol	Ave	0.3475	0.3882	0.2000	5.59	5.00	11.7	20.0
2-Methylnaphthalene	Ave	0.8482	0.8592	0.4000	5.07	5.00	1.3	20.0
1-Methylnaphthalene	Ave	0.7385	0.7488	0.0100	5.07	5.00	1.4	20.0
Hexachlorocyclopentadiene	Ave	0.4950	0.4940	0.0500	4.99	5.00	-0.2	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7423	0.7220	0.0100	4.86	5.00	-2.7	20.0
2,4,6-Trichlorophenol	Ave	0.3876	0.4264	0.2000	5.50	5.00	10.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155804/3 Calibration Date: 10/04/2015 16:17

Instrument ID: CH732 Calib Start Date: 08/27/2015 05:25

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/27/2015 08:42

Lab File ID: D10040003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.4142	0.4556	0.2000	5.50	5.00	10.0	20.0
1,1'-Biphenyl	Ave	1.583	1.588	0.0100	5.02	5.00	0.4	20.0
2-Chloronaphthalene	Ave	1.197	1.241	0.8000	5.18	5.00	3.7	20.0
2-Nitroaniline	Ave	0.3336	0.3985	0.0100	5.97	5.00	19.4	20.0
Dimethyl phthalate	Ave	1.313	1.427	0.0100	5.44	5.00	8.7	20.0
1,3-Dinitrobenzene	Ave	0.2031	0.2183	0.0100	5.37	5.00	7.5	20.0
2,6-Dinitrotoluene	Ave	0.2933	0.3298	0.2000	5.62	5.00	12.5	20.0
Acenaphthylene	Ave	1.892	2.003	0.9000	5.29	5.00	5.8	20.0
3-Nitroaniline	Ave	0.2956	0.3379	0.0100	5.72	5.00	14.3	20.0
2,4-Dinitrophenol	Lin1		0.2130	0.0100	10.5	10.0	5.1	20.0
Acenaphthene	Ave	1.292	1.318	0.9000	5.10	5.00	2.0	20.0
4-Nitrophenol	Ave	0.2123	0.2544	0.0100	12.0	10.0	19.8	20.0
2,4-Dinitrotoluene	Ave	0.4134	0.4661	0.2000	5.64	5.00	12.8	20.0
Dibenzofuran	Ave	1.863	1.917	0.8000	5.14	5.00	2.9	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.4000	0.4442	0.0100	5.55	5.00	11.1	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3966	0.4495	0.0100	5.67	5.00	13.3	20.0
2-Naphthylamine	Ave	1.175	1.318	0.0100	5.61	5.00	12.1	20.0
Diethyl phthalate	Ave	1.338	1.463	0.0100	5.47	5.00	9.3	20.0
Hexadecane	Ave	0.4655	0.5792		6.22	5.00	24.4*	20.0
4-Chlorophenyl phenyl ether	Ave	0.8082	0.8225	0.4000	5.09	5.00	1.8	20.0
4-Nitroaniline	Ave	0.3270	0.3719	0.0100	5.69	5.00	13.7	20.0
Fluorene	Ave	1.524	1.620	0.9000	5.31	5.00	6.3	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1431	0.1485	0.0100	10.4	10.0	3.7	20.0
N-Nitrosodiphenylamine	Ave	0.5861	0.5796	0.0100	9.89	10.0	-1.1	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7934	0.7929	0.0100	5.00	5.00	-0.0	20.0
4-Bromophenyl phenyl ether	Ave	0.2347	0.2321	0.1000	4.94	5.00	-1.1	20.0
Hexachlorobenzene	Ave	0.2237	0.2193	0.1000	4.90	5.00	-2.0	20.0
Atrazine	Ave	0.2275	0.2448	0.0100	5.38	5.00	7.6	20.0
Pentachlorophenol	Ave	0.1515	0.1500	0.0500	9.91	10.0	-0.9	20.0
n-Octadecane	Ave	2.003	2.519		6.29	5.00	25.8*	20.0
Phenanthrene	Ave	1.247	1.220	0.7000	4.89	5.00	-2.2	20.0
Anthracene	Ave	1.226	1.236	0.7000	5.04	5.00	0.8	20.0
Carbazole	Ave	1.059	1.125	0.0100	5.31	5.00	6.2	20.0
Di-n-butyl phthalate	Ave	1.181	1.265	0.0100	5.36	5.00	7.2	20.0
Fluoranthene	Ave	1.362	1.461	0.6000	5.36	5.00	7.2	20.0
Benzidine	Lin2		0.5936	0.0100	6.19	5.00	23.7*	20.0
Pyrene	Ave	1.300	1.209	0.6000	4.65	5.00	-7.0	20.0
Butyl benzyl phthalate	Ave	0.4353	0.4631	0.0100	5.32	5.00	6.4	20.0
3,3'-Dichlorobenzidine	Lin2		0.4154	0.0100	5.28	5.00	5.7	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.6485	0.0100	5.17	5.00	3.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Lab Sample ID: CCVIS 180-155804/3 Calibration Date: 10/04/2015 16:17

Instrument ID: CH732 Calib Start Date: 08/27/2015 05:25

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/27/2015 08:42

Lab File ID: D10040003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.297	1.207	0.8000	4.65	5.00	-6.9	20.0
Chrysene	Ave	1.211	1.128	0.7000	4.66	5.00	-6.9	20.0
Di-n-octyl phthalate	Lin1		1.145	0.0100	4.92	5.00	-1.6	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.6005	0.5711	0.0100	4.76	5.00	-4.9	20.0
Benzo[b]fluoranthene	Ave	1.390	1.335	0.7000	4.80	5.00	-4.0	20.0
Benzo[k]fluoranthene	Ave	1.394	1.331	0.7000	4.77	5.00	-4.6	20.0
Benzo[e]pyrene	Ave	1.271	1.239	0.0100	4.87	5.00	-2.5	20.0
Benzo[a]pyrene	Ave	1.290	1.263	0.7000	4.90	5.00	-2.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.345	1.389	0.5000	5.16	5.00	3.3	20.0
Dibenz(a,h)anthracene	Ave	1.090	1.119	0.4000	5.13	5.00	2.6	20.0
Benzo[g,h,i]perylene	Ave	1.143	1.188	0.5000	5.20	5.00	3.9	20.0
2-Fluorophenol (Surr)	Ave	1.113	1.091		4.90	5.00	-2.0	20.0
Phenol-d5 (Surr)	Ave	1.508	1.554		5.15	5.00	3.1	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3988	0.4425		5.55	5.00	10.9	20.0
2-Fluorobiphenyl	Ave	1.486	1.509		5.08	5.00	1.5	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.0795	0.0853	0.0100	5.37	5.00	7.4	20.0
Terphenyl-d14 (Surr)	Ave	0.8320	0.7914		4.76	5.00	-4.9	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040003.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 04-Oct-2015 16:17:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008812-003
Operator ID: 003200 Instrument ID: CH732
Sublist: chrom-BNA_CH732*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 05-Oct-2015 06:48:44 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 04-Oct-2015 16:43:59

	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	6.137	6.137	0.000	96	100948	8.00	8.00	
*	2 Naphthalene-d8	136	7.425	7.425	0.000	100	392829	8.00	8.00	
*	3 Acenaphthene-d10	164	9.134	9.134	0.000	94	276416	8.00	8.00	
*	4 Phenanthrene-d10	188	10.566	10.566	0.000	97	568067	8.00	8.00	
*	5 Chrysene-d12	240	14.290	14.290	0.000	96	711144	8.00	8.00	
*	6 Perylene-d12	264	17.158	17.158	0.000	97	636345	8.00	8.00	
$	7 2-Fluorophenol	112	4.679	4.679	0.000	93	137678	10.0	9.80	
$	8 Phenol-d5	99	5.758	5.758	0.000	94	196146	10.0	10.3	
$	9 Nitrobenzene-d5	82	6.698	6.698	0.000	90	217262	10.0	11.1	
$	10 2-Fluorobiphenyl	172	8.467	8.467	0.000	100	521248	10.0	10.2	
$	11 2,4,6-Tribromophenol	330	9.888	9.888	0.000	88	60585	10.0	10.7	
$	12 Terphenyl-d14	244	12.479	12.479	0.000	99	703537	10.0	9.51	
	13 1,4-Dioxane	88	1.484	1.484	0.000	93	48381	10.0	9.07	
	14 N-Nitrosodimethylamine	74	2.061	2.061	0.000	89	63859	10.0	10.2	
	15 Pyridine	79	2.131	2.131	0.000	96	113949	10.0	9.51	
	21 Methyl methanesulfonate	80	4.423	4.423	0.000	90	85048	10.0	10.5	
	25 Benzaldehyde	77	5.667	5.667	0.000	93	137435	10.0	13.6	
	26 Phenol	94	5.774	5.774	0.000	98	218347	10.0	9.93	
	27 Aniline	93	5.785	5.785	0.000	97	247228	10.0	10.1	
	29 Bis(2-chloroethyl)ether	93	5.860	5.860	0.000	94	143377	10.0	9.90	
	30 2-Chlorophenol	128	5.918	5.918	0.000	95	167869	10.0	10.1	
	31 n-Decane	43	5.988	5.988	0.000	84	139826	10.0	12.0	
	32 1,3-Dichlorobenzene	146	6.079	6.079	0.000	96	209208	10.0	9.82	
	33 1,4-Dichlorobenzene	146	6.153	6.153	0.000	91	210440	10.0	9.59	
	34 Benzyl alcohol	108	6.276	6.276	0.000	87	104301	10.0	10.4	
	35 1,2-Dichlorobenzene	146	6.314	6.314	0.000	94	208858	10.0	10.0	
	36 2-Methylphenol	108	6.399	6.399	0.000	97	160165	10.0	10.4	
	37 Indene	116	6.405	6.405	0.000	88	309254	10.0	9.76	
	38 2,2'-oxybis[1-chloropropan	45	6.426	6.426	0.000	88	177426	10.0	12.6	
	39 N-Nitrosopyrrolidine	100	6.511	6.511	0.000	87	75949	10.0	11.0	
	40 Acetophenone	105	6.543	6.543	0.000	80	253578	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 4-Methylphenol	108	6.549	6.549	0.000	92	169303	10.0	10.5	
41 N-Nitrosodi-n-propylamine	70	6.549	6.549	0.000	69	132983	10.0	11.1	
45 Hexachloroethane	117	6.666	6.666	0.000	90	89599	10.0	10.1	
46 Nitrobenzene	77	6.720	6.720	0.000	89	218032	10.0	11.0	
48 Isophorone	82	6.955	6.955	0.000	99	351951	10.0	11.0	
49 2-Nitrophenol	139	7.040	7.040	0.000	97	99813	10.0	10.7	
50 2,4-Dimethylphenol	107	7.078	7.078	0.000	100	208739	10.0	10.6	
52 Benzoic acid	122	7.120	7.120	0.000	89	70059	10.0	10.3	
53 Bis(2-chloroethoxy)methane	93	7.163	7.163	0.000	97	197825	10.0	9.98	
54 2,4-Dichlorophenol	162	7.275	7.275	0.000	95	174031	10.0	10.9	
56 1,2,4-Trichlorobenzene	180	7.366	7.366	0.000	93	213610	10.0	10.3	
58 Naphthalene	128	7.446	7.446	0.000	98	573443	10.0	10.1	
59 4-Chloroaniline	127	7.489	7.489	0.000	94	240674	10.0	10.8	
60 2,6-Dichlorophenol	162	7.500	7.500	0.000	95	173829	10.0	10.9	
62 Hexachlorobutadiene	225	7.575	7.575	0.000	94	152825	10.0	10.3	
64 Caprolactam	113	7.788	7.788	0.000	79	50580	10.0	11.2	
67 4-Chloro-3-methylphenol	107	7.948	7.948	0.000	94	190595	10.0	11.2	
69 2-Methylnaphthalene	142	8.119	8.119	0.000	91	421898	10.0	10.1	
71 1-Methylnaphthalene	142	8.216	8.216	0.000	91	367693	10.0	10.1	
72 Hexachlorocyclopentadiene	237	8.280	8.280	0.000	96	170684	10.0	9.98	
73 1,2,4,5-Tetrachlorobenzene	216	8.285	8.285	0.000	97	249466	10.0	9.73	
74 2,4,6-Trichlorophenol	196	8.387	8.387	0.000	93	147312	10.0	11.0	
75 2,4,5-Trichlorophenol	196	8.419	8.419	0.000	94	157427	10.0	11.0	
76 1,1'-Biphenyl	154	8.563	8.563	0.000	96	548763	10.0	10.0	
77 2-Chloronaphthalene	162	8.595	8.595	0.000	97	428886	10.0	10.4	
79 2-Nitroaniline	65	8.675	8.675	0.000	79	137681	10.0	11.9	
82 Dimethyl phthalate	163	8.835	8.835	0.000	98	493087	10.0	10.9	
83 1,3-Dinitrobenzene	168	8.867	8.867	0.000	84	75419	10.0	10.7	
84 2,6-Dinitrotoluene	165	8.899	8.899	0.000	93	113960	10.0	11.2	
85 Acenaphthylene	152	8.996	8.996	0.000	98	691965	10.0	10.6	
86 3-Nitroaniline	138	9.065	9.065	0.000	90	116756	10.0	11.4	
88 Acenaphthene	153	9.161	9.161	0.000	88	455553	10.0	10.2	
87 2,4-Dinitrophenol	184	9.161	9.161	0.000	70	147163	20.0	21.0	
89 4-Nitrophenol	109	9.204	9.204	0.000	95	175778	20.0	24.0	
91 2,4-Dinitrotoluene	165	9.289	9.289	0.000	92	161055	10.0	11.3	
93 Dibenzofuran	168	9.327	9.327	0.000	96	662357	10.0	10.3	
95 2,3,5,6-Tetrachlorophenol	232	9.396	9.396	0.000	93	153493	10.0	11.1	
96 2,3,4,6-Tetrachlorophenol	232	9.439	9.439	0.000	72	155320	10.0	11.3	
97 2-Naphthylamine	143	9.471	9.471	0.000	97	455340	10.0	11.2	
98 Diethyl phthalate	149	9.503	9.503	0.000	98	505429	10.0	10.9	
99 Hexadecane	57	9.514	9.514	0.000	98	284385	10.0	12.4	
100 4-Chlorophenyl phenyl ethe	204	9.642	9.642	0.000	93	284182	10.0	10.2	
101 4-Nitroaniline	138	9.647	9.647	0.000	82	128491	10.0	11.4	
103 Fluorene	166	9.658	9.658	0.000	93	559823	10.0	10.6	
104 4,6-Dinitro-2-methylphenol	198	9.679	9.679	0.000	86	210874	20.0	20.7	
105 N-Nitrosodiphenylamine	169	9.749	9.749	0.000	63	823150	20.0	19.8	
57 Azobenzene	77	9.792	9.792	0.000	99	563022	10.0	10.0	
90 1,2-Diphenylhydrazine	77	9.792	9.792	0.000	100	563022	10.0	10.0	
110 4-Bromophenyl phenyl ether	248	10.107	10.107	0.000	67	164773	10.0	9.89	
112 Hexachlorobenzene	284	10.192	10.192	0.000	92	155732	10.0	9.80	
113 Atrazine	200	10.230	10.230	0.000	94	173794	10.0	10.8	
116 Pentachlorophenol	266	10.368	10.368	0.000	90	213071	20.0	19.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
115 n-Octadecane	57	10.385	10.385	0.000	96	317857	10.0	12.6	
121 Phenanthrene	178	10.593	10.593	0.000	98	866432	10.0	9.78	
122 Anthracene	178	10.646	10.646	0.000	97	877524	10.0	10.1	
124 Carbazole	167	10.796	10.796	0.000	96	798682	10.0	10.6	
126 Di-n-butyl phthalate	149	11.122	11.122	0.000	100	898300	10.0	10.7	
131 Fluoranthene	202	11.982	11.982	0.000	97	1037259	10.0	10.7	
132 Benzidine	184	12.121	12.121	0.000	99	527663	10.0	12.4	
133 Pyrene	202	12.302	12.302	0.000	98	1074388	10.0	9.30	
138 Butyl benzyl phthalate	149	13.216	13.216	0.000	98	411637	10.0	10.6	
144 3,3'-Dichlorobenzidine	252	14.199	14.199	0.000	75	369253	10.0	10.6	
145 Bis(2-ethylhexyl) phthalat	149	14.263	14.263	0.000	97	576435	10.0	10.3	
146 Benzo[a]anthracene	228	14.268	14.268	0.000	98	1072822	10.0	9.31	
147 Chrysene	228	14.338	14.338	0.000	96	1002433	10.0	9.31	
150 Di-n-octyl phthalate	149	15.556	15.556	0.000	100	910785	10.0	9.84	
151 7,12-Dimethylbenz(a)anthra	256	16.379	16.379	0.000	90	454296	10.0	9.51	
152 Benzo[b]fluoranthene	252	16.389	16.389	0.000	97	1061672	10.0	9.60	
153 Benzo[k]fluoranthene	252	16.448	16.448	0.000	99	1058391	10.0	9.54	
219 Benzo[e]pyrene	252	16.945	16.945	0.000	0	985369	10.0	9.75	
154 Benzo[a]pyrene	252	17.046	17.046	0.000	80	1004564	10.0	9.79	
157 Indeno[1,2,3-cd]pyrene	276	19.482	19.482	0.000	99	1104894	10.0	10.3	
158 Dibenz(a,h)anthracene	278	19.509	19.509	0.000	88	890175	10.0	10.3	
159 Benzo[g,h,i]perylene	276	20.145	20.145	0.000	98	945262	10.0	10.4	
S 199 Total Cresols	108				0		20.0	20.9	
S 197 Methyl Phenols,Total	108				0		20.0	20.9	

Reagents:

SVTAPSTD10i_00128 Amount Added: 1.00 Units: mL

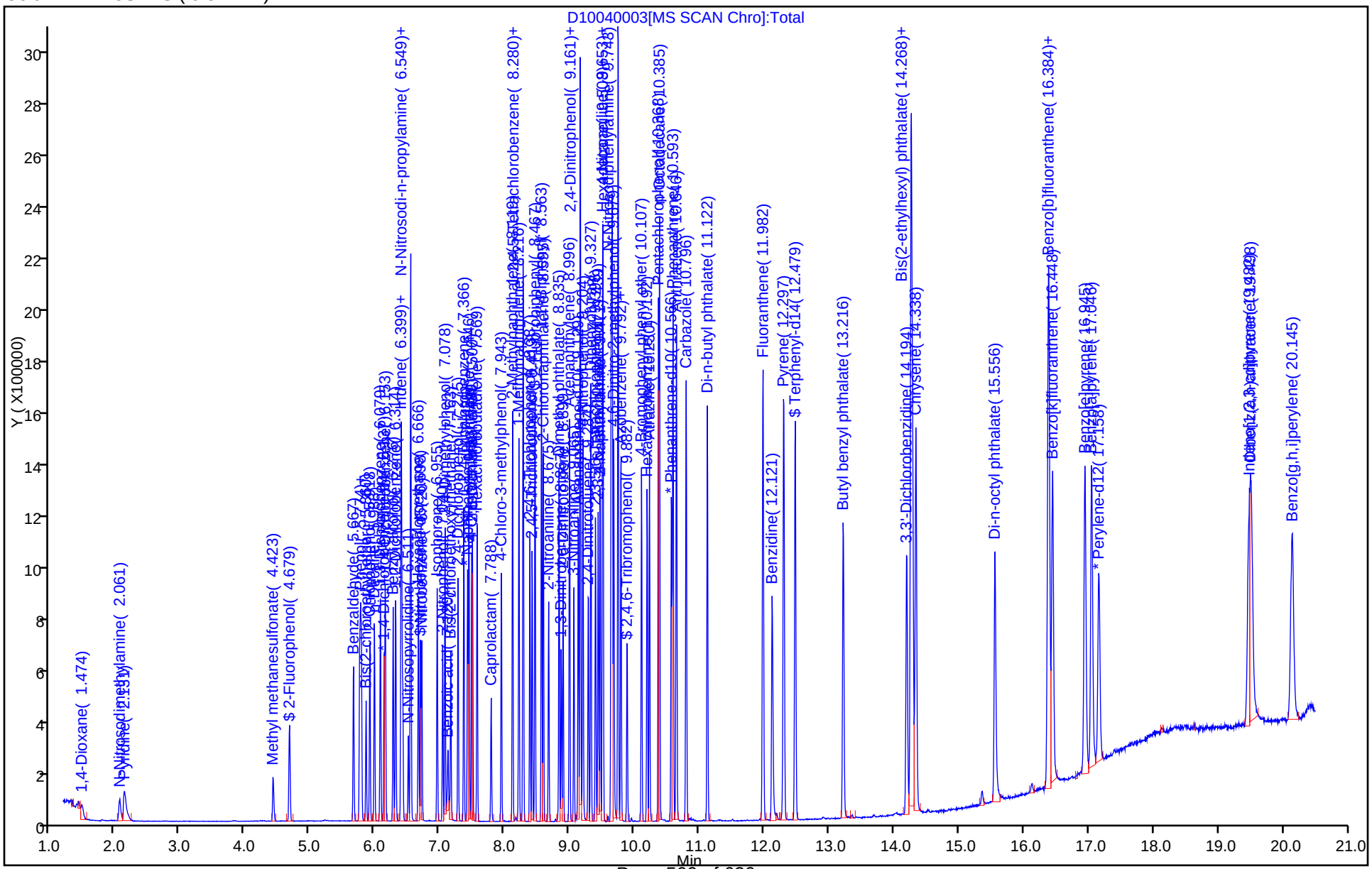
Report Date: 05-Oct-2015 06:48:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040003.D

Injection Date:	04-Oct-2015 16:17:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Aug-2015 05:10:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008308-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 27-Aug-2015 10:14:44 Calib Date: 27-Aug-2015 08:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.440	5.440	0.000	90	457232	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.106	8.106	0.000	99	2969888	NR	NR	
193 4,4'-DDD	235		8.343					ND	
192 4,4'-DDE	246		8.645					ND	
194 4,4'-DDT	235	9.746	9.746	0.000	98	1608718	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
8 - Failed MS Tune Ratio Test

Reagents:

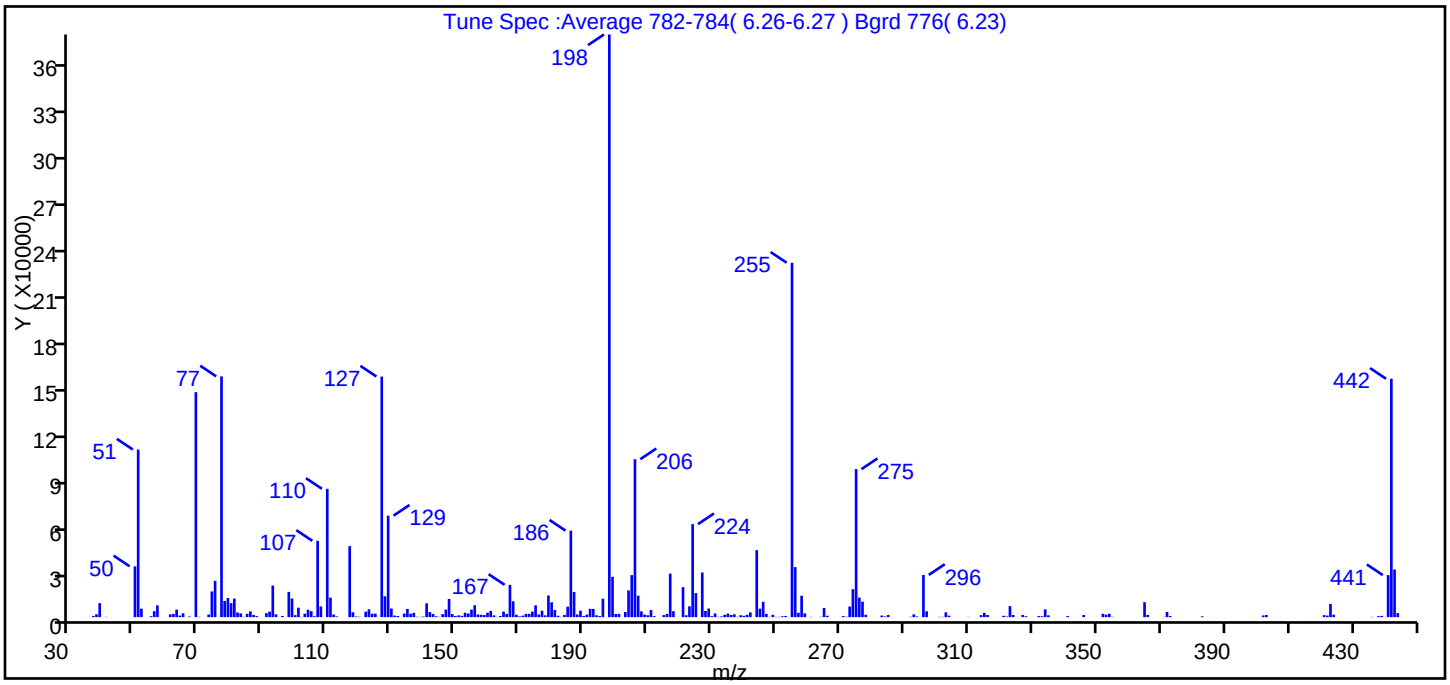
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D
Injection Date: 27-Aug-2015 05:10:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Tune Method: DFTPP Method 8270

190 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	28.8*
68	<2% of mass 69	0.0 (0.0)
69	Present	38.6
70	<2% of mass 69	0.1 (0.2)
127	40-60% of mass 198	41.3
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-30% of mass 198	25.4
365	>1% of mass 198	2.6
441	Present but less than mass 443	7.2 (88.2)
442	>40% of mass 198	40.9
443	17-23% of mass 442	8.2 (20.0)

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D\BNA_CH732.rslt\spectra.d
Injection Date: 27-Aug-2015 05:10:30
Spectrum: Tune Spec :Average 782-784(6.26-6.27) Bgrd 776(6.23)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 247

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	770	128.00	13297	191.00	1644	265.00	5884
38.00	1835	129.00	64760	192.00	5321	266.00	903
39.00	8937	130.00	5515	193.00	5243	271.00	688
41.00	189	131.00	1004	194.00	1204	272.00	252
50.00	32432	132.00	724	195.00	702	273.00	6764
51.00	106960	134.00	2302	196.00	11743	274.00	17856
52.00	5414	135.00	5239	198.00	371840	275.00	94448
55.00	598	136.00	2162	199.00	25728	276.00	12474
56.00	3785	137.00	2742	200.00	1997	277.00	9867
57.00	7524	138.00	252	201.00	2083	278.00	1537
61.00	1808	139.00	183	203.00	3302	283.00	1006
62.00	2090	140.00	347	204.00	17048	284.00	448
63.00	4782	141.00	8842	205.00	26816	285.00	1394
64.00	977	142.00	3237	206.00	100792	292.00	231
65.00	2458	143.00	2040	207.00	13692	293.00	1760
67.00	421	144.00	549	208.00	3711	294.00	447
69.00	143616	145.00	178	209.00	1650	296.00	26952
70.00	223	146.00	1930	210.00	1215	297.00	3728
73.00	1633	147.00	4836	211.00	4588	301.00	201
74.00	16383	148.00	11625	212.00	654	302.00	190
75.00	23176	149.00	1941	215.00	1322	303.00	3054
77.00	153664	150.00	742	216.00	2083	304.00	942
78.00	10331	151.00	1148	217.00	27776	310.00	169
79.00	12209	152.00	845	218.00	3796	314.00	1287
80.00	8920	153.00	2789	221.00	19136	315.00	2739
81.00	11840	154.00	2313	222.00	1211	316.00	1384
82.00	2959	155.00	4813	223.00	6917	321.00	884
83.00	2355	156.00	7591	224.00	59360	322.00	412
84.00	214	157.00	1668	225.00	15321	323.00	7043
85.00	2132	158.00	1510	227.00	28504	324.00	1383
86.00	3667	159.00	1321	228.00	3916	327.00	1429
87.00	1399	160.00	2836	229.00	5518	328.00	610
88.00	663	161.00	4013	230.00	633	332.00	712

Report Date: 27-Aug-2015 10:14:46 Chrom Revision: 2.2 23-Jul-2015 08:26:08
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D\BNA_CH732.rslt\spectra.d
Injection Date: 27-Aug-2015 05:10:30
Spectrum: Tune Spec :Average 782-784(6.26-6.27) Bgrd 776(6.23)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 247

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	2565	162.00	1123	231.00	2332	333.00	558
92.00	3552	163.00	173	232.00	188	334.00	4968
93.00	20176	164.00	717	233.00	475	335.00	1162
94.00	1804	165.00	3573	234.00	1522	341.00	688
96.00	742	166.00	2055	235.00	2288	346.00	1395
98.00	16128	167.00	20608	236.00	1411	352.00	2126
99.00	11884	168.00	10157	237.00	1827	353.00	1575
100.00	1262	169.00	1550	238.00	189	354.00	2140
101.00	6032	170.00	517	239.00	1228	355.00	194
102.00	175	171.00	962	240.00	851	365.00	9540
103.00	2220	172.00	2062	241.00	1487	366.00	1433
104.00	4722	173.00	2087	242.00	3006	371.00	174
105.00	3802	174.00	3546	244.00	42728	372.00	3326
106.00	579	175.00	7535	245.00	5424	373.00	755
107.00	48704	176.00	1691	246.00	9797	383.00	548
108.00	6842	177.00	4099	247.00	2082	402.00	1088
110.00	81888	178.00	1166	248.00	176	403.00	1405
111.00	12448	179.00	13824	249.00	1499	421.00	1307
112.00	1660	180.00	9471	250.00	210	422.00	1004
113.00	445	181.00	4543	251.00	224	423.00	8458
117.00	45328	182.00	884	252.00	560	424.00	1545
118.00	3114	183.00	182	253.00	723	436.00	172
119.00	443	184.00	1432	255.00	226176	438.00	664
120.00	278	185.00	6660	256.00	31944	439.00	821
122.00	3529	186.00	55192	257.00	2749	441.00	26824
123.00	4995	187.00	16012	258.00	13641	442.00	152128
124.00	2203	188.00	1701	259.00	2391	443.00	30424
125.00	2244	189.00	4126	261.00	187	444.00	2609
127.00	153536	190.00	780	264.00	226		

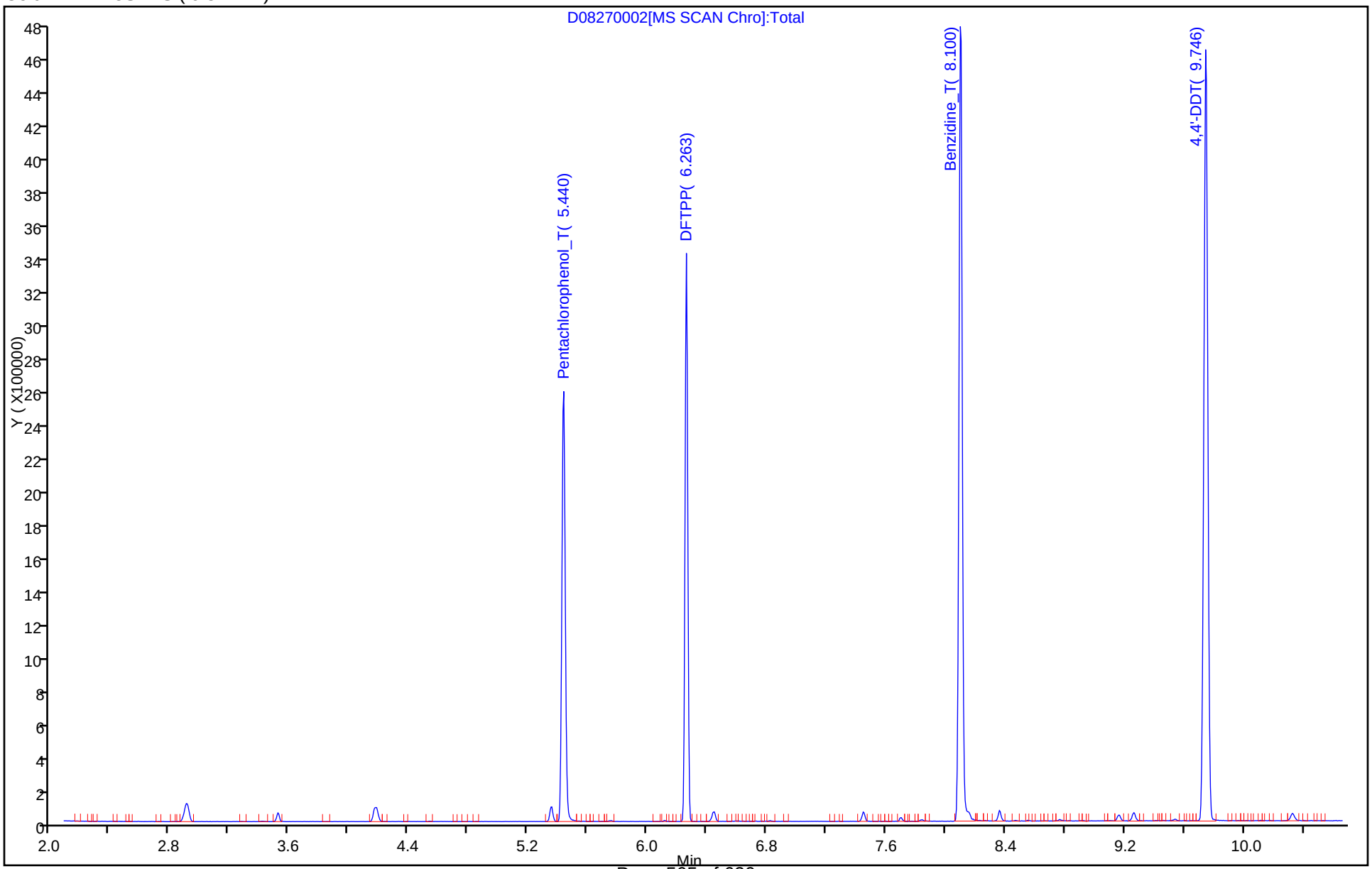
Report Date: 27-Aug-2015 10:14:46 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D

Injection Date:	27-Aug-2015 05:10:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

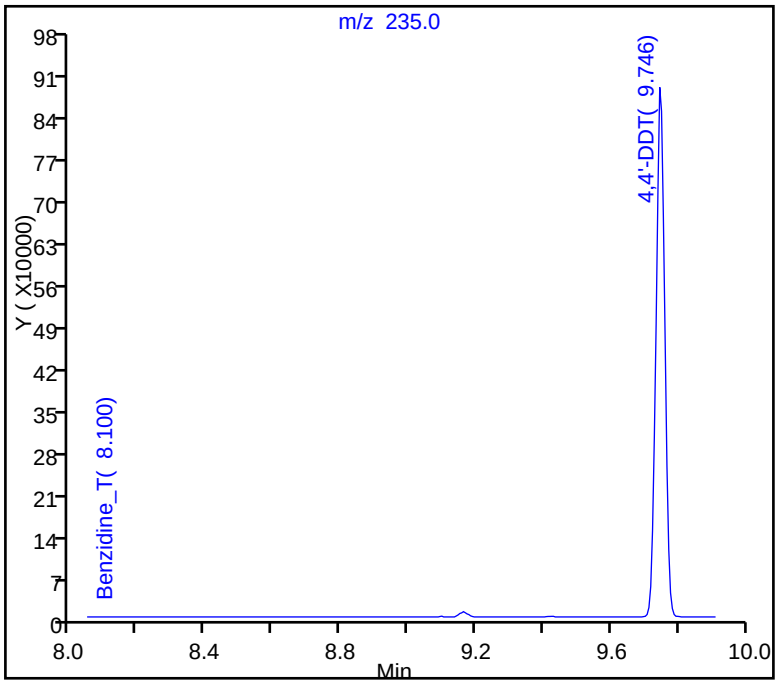


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D
Injection Date: 27-Aug-2015 05:10:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

194 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

194 4,4'-DDT, Area = 1608718
192 4,4'-DDE, Area = 0
193 4,4'-DDD, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

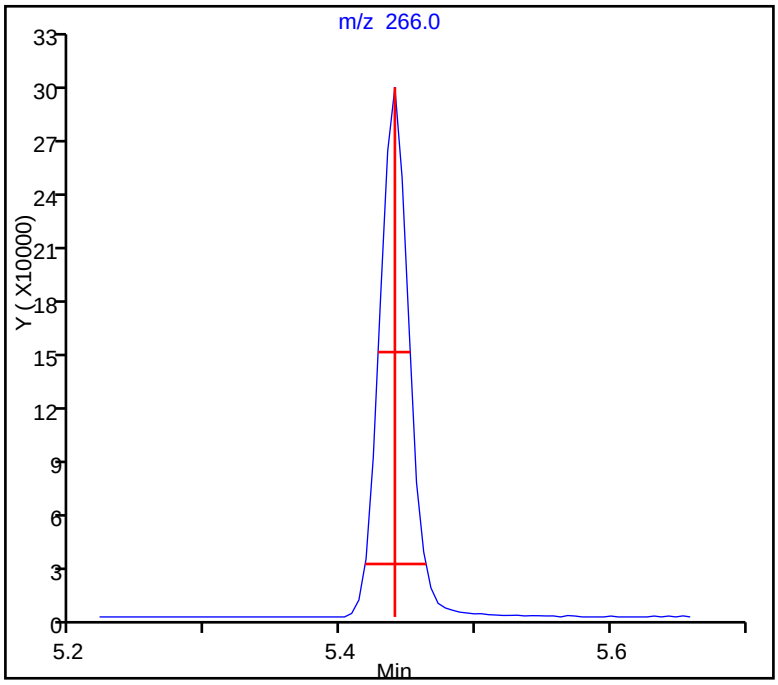
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D
Injection Date: 27-Aug-2015 05:10:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

189 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.023 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

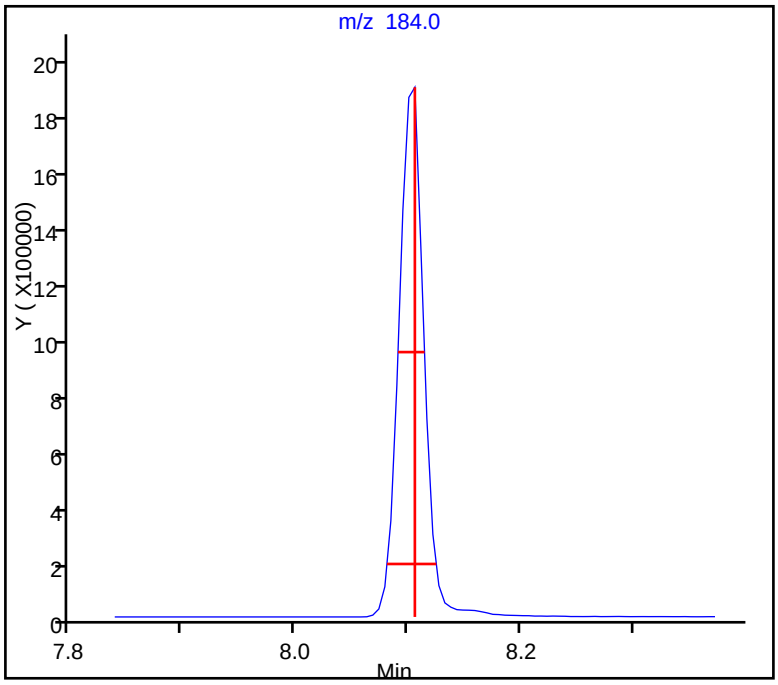
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20150827-8308.b\D08270002.D
Injection Date: 27-Aug-2015 05:10:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

191 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.019 (min.)
Front Width = 0.025 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 04-Oct-2015 16:02:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008812-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 05-Oct-2015 06:48:39 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 05-Oct-2015 06:36:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.451	5.451	0.000	90	379573	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.127	8.127	0.000	99	2534913	NR	NR	
192 4,4'-DDE	246		8.656					ND	
194 4,4'-DDT	235	9.196	9.196	0.000	94	13028	NR	NR	
193 4,4'-DDD	235	9.789	9.789	0.000	97	1366340		NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

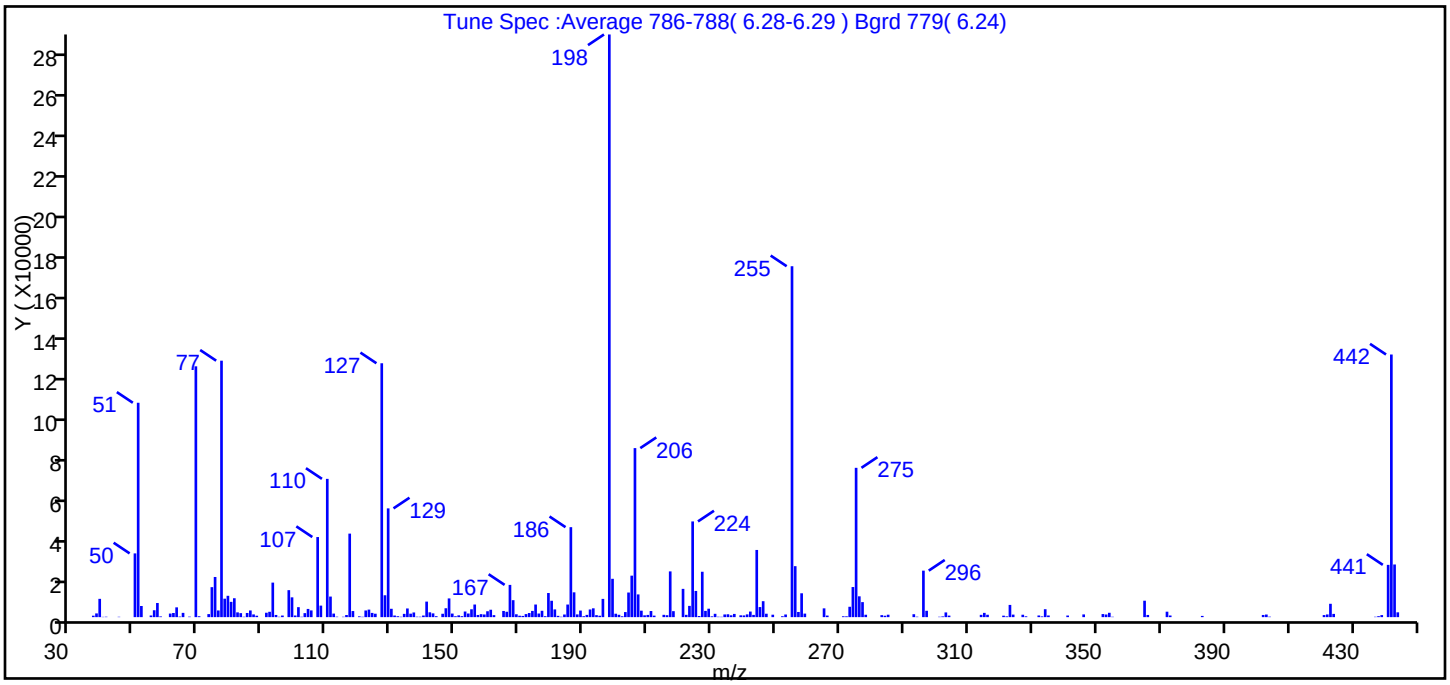
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040002.D
Injection Date: 04-Oct-2015 16:02:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL
Tune Method: DFTPP Method 8270

190 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	36.8
68	<2% of mass 69	0.0 (0.0)
69	Present	43.0
70	<2% of mass 69	0.2 (0.4)
127	40-60% of mass 198	43.6
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.6
275	10-30% of mass 198	25.6
365	>1% of mass 198	2.8
441	Present but less than mass 443	9.0 (99.3)
442	>40% of mass 198	45.1
443	17-23% of mass 442	9.0 (20.1)

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040002.D\BNA_CH732.rslt\spectra.d
Injection Date: 04-Oct-2015 16:02:30
Spectrum: Tune Spec :Average 786-788(6.28-6.29) Bgrd 779(6.24)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	726	121.00	179	187.00	12342	259.00	1758
38.00	1859	122.00	3307	188.00	1364	265.00	4371
39.00	9100	123.00	3749	189.00	3263	266.00	785
40.00	141	124.00	2105	190.00	455	271.00	428
41.00	208	125.00	1701	191.00	1121	272.00	404
45.00	174	127.00	126272	192.00	3821	273.00	5161
50.00	31704	128.00	10883	193.00	4390	274.00	14971
51.00	106624	129.00	54096	194.00	991	275.00	74264
52.00	5542	130.00	4159	195.00	700	276.00	10357
55.00	820	131.00	802	196.00	9078	277.00	7471
56.00	3427	132.00	455	198.00	289792	278.00	1194
57.00	7031	133.00	189	199.00	19072	283.00	995
58.00	354	134.00	1631	200.00	1696	284.00	704
61.00	1777	135.00	4316	201.00	1167	285.00	1208
62.00	2060	136.00	1726	202.00	432	293.00	1456
63.00	4870	137.00	2327	203.00	2520	294.00	221
64.00	279	138.00	222	204.00	12243	296.00	23128
65.00	2127	139.00	202	205.00	20632	297.00	3164
67.00	253	140.00	806	206.00	84072	301.00	196
69.00	124744	141.00	7731	207.00	11302	302.00	358
70.00	439	142.00	2403	208.00	3213	303.00	2350
73.00	1510	143.00	1873	209.00	904	304.00	767
74.00	14915	144.00	465	210.00	1105	314.00	1142
75.00	19976	146.00	1683	211.00	3042	315.00	2124
76.00	3329	147.00	4425	212.00	748	316.00	1185
77.00	127552	148.00	9312	215.00	1153	321.00	733
78.00	9182	149.00	1782	216.00	960	322.00	385
79.00	10613	150.00	444	217.00	22752	323.00	6083
80.00	7599	151.00	888	218.00	2979	324.00	1261
81.00	9404	152.00	481	221.00	14064	327.00	1201
82.00	2370	153.00	2799	222.00	1147	328.00	410
83.00	1992	154.00	1803	223.00	5598	332.00	826
84.00	197	155.00	3914	224.00	47600	333.00	359

Report Date: 05-Oct-2015 06:48:40 Chrom Revision: 2.2 08-Sep-2015 13:41:46
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040002.D\BNA_CH732.rslt\spectra.d
Injection Date: 04-Oct-2015 16:02:30
Spectrum: Tune Spec :Average 786-788(6.28-6.29) Bgrd 779(6.24)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	2070	156.00	6277	225.00	13028	334.00	3943
86.00	3324	157.00	1086	226.00	562	335.00	824
87.00	1356	158.00	1482	227.00	22576	341.00	802
88.00	710	159.00	1325	228.00	3100	346.00	1357
91.00	2190	160.00	2930	229.00	4197	352.00	1532
92.00	2662	161.00	3682	230.00	390	353.00	1317
93.00	17176	162.00	995	231.00	1660	354.00	2168
94.00	1088	165.00	3074	232.00	210	355.00	191
95.00	179	166.00	2676	233.00	171	365.00	8171
96.00	799	167.00	16040	234.00	1343	366.00	1090
98.00	13419	168.00	8434	235.00	1426	372.00	2711
99.00	9848	169.00	1430	236.00	917	373.00	814
100.00	816	170.00	705	237.00	1602	383.00	616
101.00	4963	171.00	608	239.00	909	402.00	1082
102.00	190	172.00	1519	240.00	858	403.00	1303
103.00	1994	173.00	2046	241.00	1367	404.00	238
104.00	4083	174.00	3093	242.00	2782	421.00	1033
105.00	3349	175.00	6276	243.00	1116	422.00	1337
107.00	39840	176.00	1798	244.00	33416	423.00	6641
108.00	5735	177.00	3162	245.00	5011	424.00	1615
110.00	68776	178.00	463	246.00	7935	437.00	191
111.00	10234	179.00	11999	247.00	1698	438.00	478
112.00	1770	180.00	8146	249.00	1215	439.00	1013
113.00	231	181.00	3845	252.00	456	441.00	26000
115.00	194	182.00	648	253.00	1318	442.00	130624
116.00	1050	183.00	191	255.00	174528	443.00	26192
117.00	41544	184.00	1314	256.00	25352	444.00	2392
118.00	3028	185.00	6271	257.00	2570		
120.00	401	186.00	44752	258.00	11865		

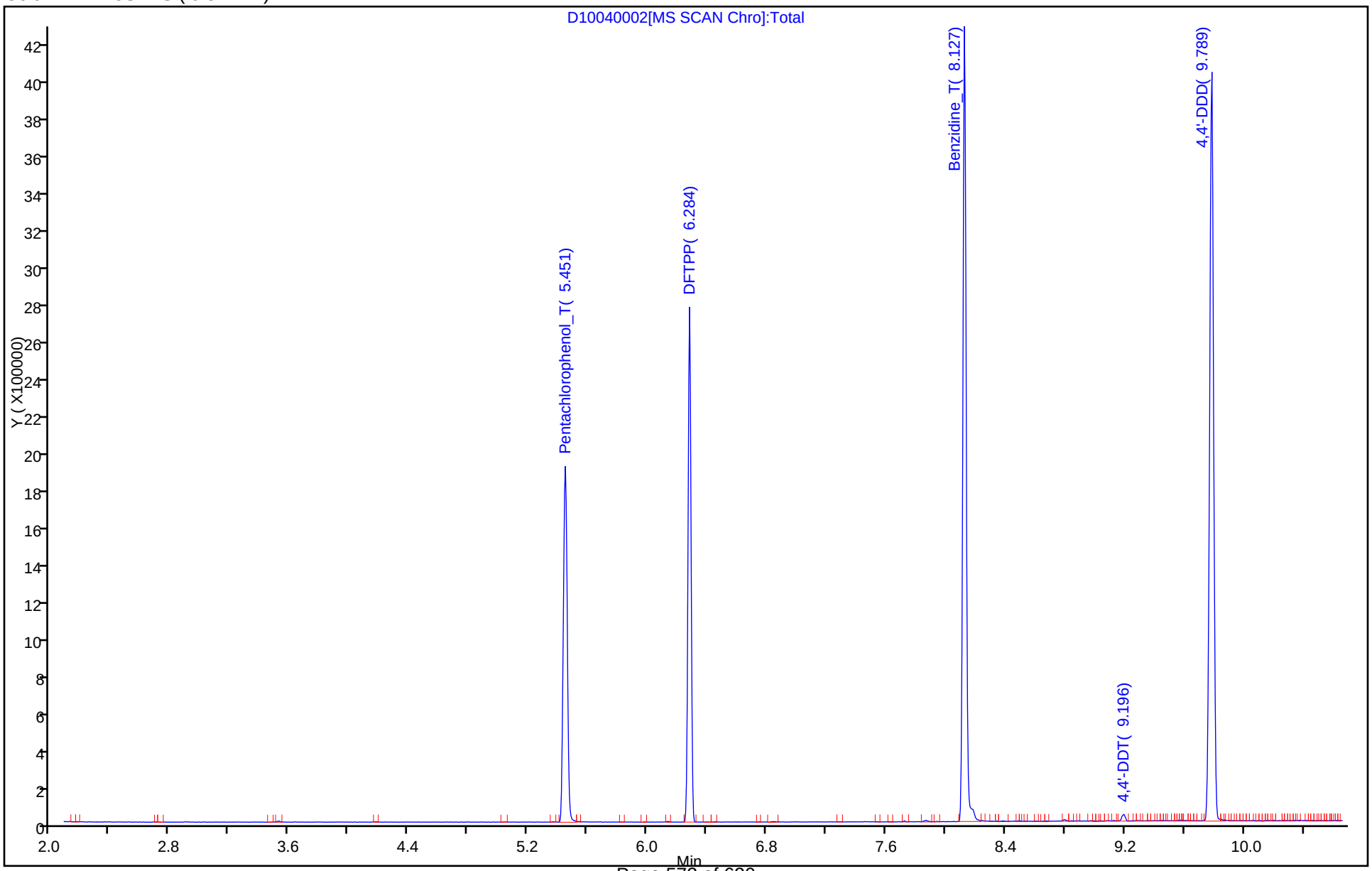
Report Date: 05-Oct-2015 06:48:40 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040002.D

Injection Date:	04-Oct-2015 16:02:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

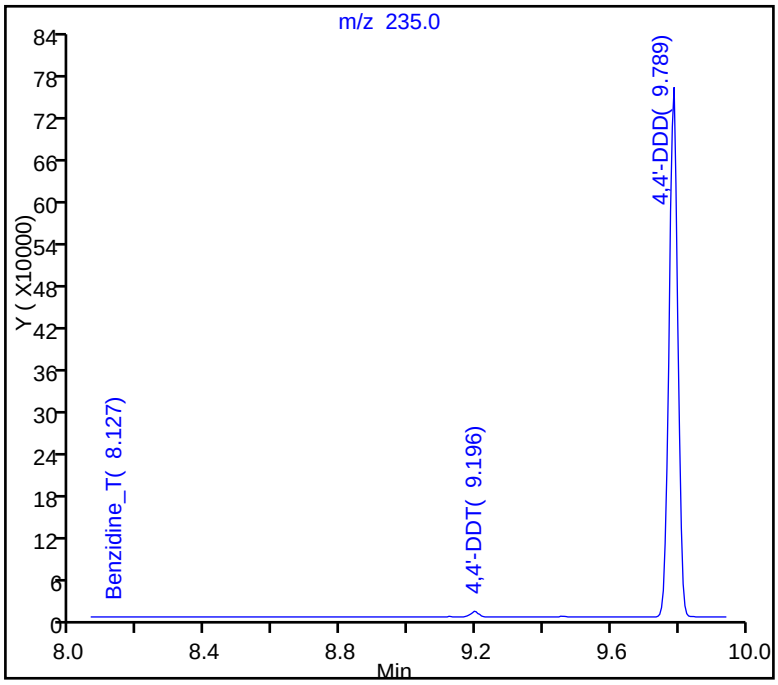


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040002.D
Injection Date: 04-Oct-2015 16:02:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

194 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

194 4,4'-DDT, Area = 13028
192 4,4'-DDE, Area = 0
193 4,4'-DDD, Area = 1366340

%Breakdown:* 99.06%, Max Limit: 20.00%
Failed

Peak Tailing Report

TestAmerica Pittsburgh

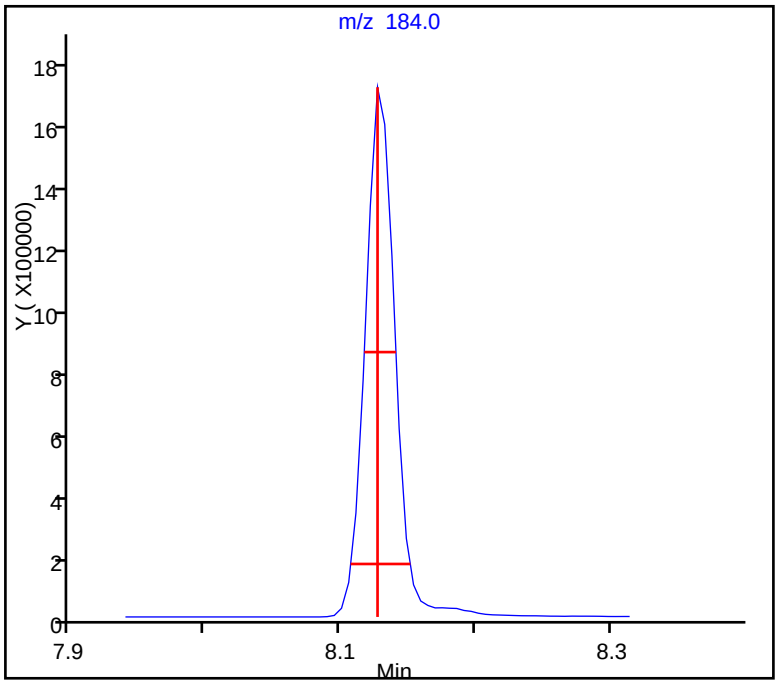
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040002.D
Injection Date: 04-Oct-2015 16:02:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

191 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.024 (min.)
Front Width = 0.020 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

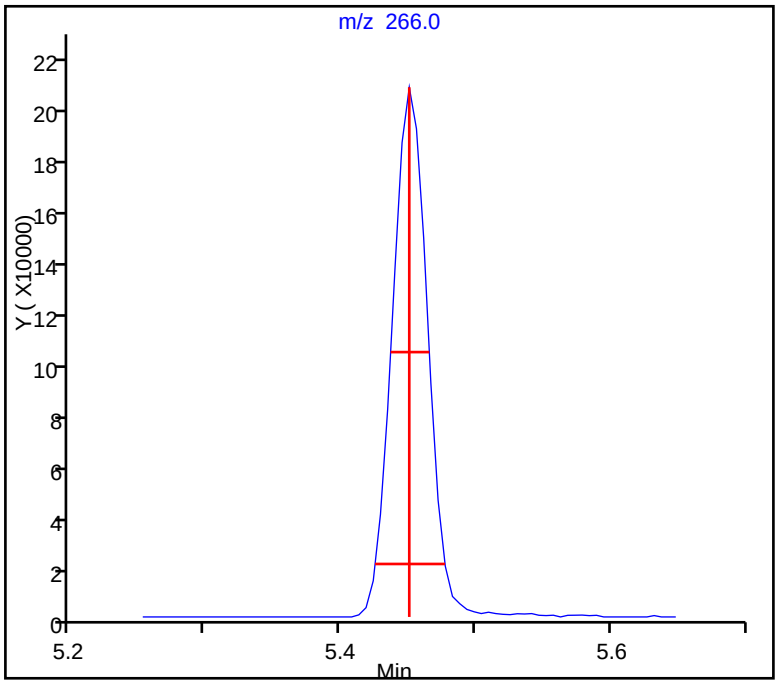
Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040002.D
Injection Date: 04-Oct-2015 16:02:30 Instrument ID: CH732
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH732 Limit Group: BNA 8270D ICAL

189 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.027 (min.)
Front Width = 0.025 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-155373/1-A

Matrix: Water | Lab File ID: D10040007.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 09/30/2015 08:57

Sample wt/vol: 250(mL) | Date Analyzed: 10/04/2015 17:58

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.: 155804 | 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	61		28-109
367-12-4	2-Fluorophenol (Surr)	61		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	63		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	65		27-114
4165-62-2	Phenol-d5 (Surr)	62		25-105
1718-51-0	Terphenyl-d14 (Surr)	68		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040007.D
Lims ID: MB 180-155373/1-A
Client ID:
Sample Type: MB
Inject. Date: 04-Oct-2015 17:58:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008812-007
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 05-Oct-2015 06:48:51 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 05-Oct-2015 06:38:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.132	6.137	-0.005	97	107146	8.00	8.00	
* 2 Naphthalene-d8	136	7.419	7.425	-0.006	99	432777	8.00	8.00	
* 3 Acenaphthene-d10	164	9.134	9.134	0.000	93	300740	8.00	8.00	
* 4 Phenanthrene-d10	188	10.577	10.571	0.006	97	615593	8.00	8.00	
* 5 Chrysene-d12	240	14.306	14.295	0.011	97	717326	8.00	8.00	
* 6 Perylene-d12	264	17.180	17.169	0.011	97	656024	8.00	8.00	
$ 7 2-Fluorophenol	112	4.663	4.679	-0.016	92	365102	40.0	24.5	
$ 8 Phenol-d5	99	5.753	5.758	-0.005	94	497702	40.0	24.6	
$ 9 Nitrobenzene-d5	82	6.693	6.698	-0.005	91	558754	40.0	25.9	
$ 10 2-Fluorobiphenyl	172	8.467	8.467	0.000	100	1367302	40.0	24.5	
$ 11 2,4,6-Tribromophenol	330	9.893	9.888	0.005	90	153163	40.0	25.0	
$ 12 Terphenyl-d14	244	12.495	12.479	0.016	99	2029582	40.0	27.2	
13 1,4-Dioxane	88		1.484					ND	
14 N-Nitrosodimethylamine	74		2.061					ND	
15 Pyridine	79		2.131					ND	
17 Dibromoacetonitrile	120		3.590					ND	
18 2-Picoline	93		4.030					ND	
19 N-Nitrosomethylethylamine	88		4.233					ND	
21 Methyl methanesulfonate	80		4.423					ND	
20 Acrylamide	71	4.663	4.597	0.067	26	1684			NC
22 Phenylmercaptan	110	4.663	5.000	-0.337	15	1579			NC
23 N-Nitrosodiethylamine	102		5.115					ND	
24 Ethyl methanesulfonate	79		5.256					ND	
25 Benzaldehyde	77		5.667					ND	
26 Phenol	94		5.774					ND	
27 Aniline	93		5.785					ND	
28 Pentachloroethane	167		5.806					ND	
29 Bis(2-chloroethyl)ether	93		5.860					ND	
30 2-Chlorophenol	128		5.918					ND	
31 n-Decane	43		5.988					ND	
32 1,3-Dichlorobenzene	146		6.079					ND	
33 1,4-Dichlorobenzene	146		6.153					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Benzyl alcohol	108		6.276					ND	
35 1,2-Dichlorobenzene	146		6.314					ND	
36 2-Methylphenol	108		6.399					ND	
37 Indene	116		6.405					ND	
38 2,2'-oxybis[1-chloropropan	45		6.426					ND	
39 N-Nitrosopyrrolidine	100		6.511					ND	
40 Acetophenone	105		6.543					ND	
42 4-Methylphenol	108		6.549					ND	
41 N-Nitrosodi-n-propylamine	70		6.549					ND	
43 N-Nitrosomorpholine	116	6.132	6.632	-0.500	40	5126			NC
44 2-Toluidine	106		6.664					ND	
45 Hexachloroethane	117		6.666					ND	
46 Nitrobenzene	77		6.720					ND	
47 N-Nitrosopiperidine	114		6.926					ND	
48 Isophorone	82		6.955					ND	
49 2-Nitrophenol	139		7.040					ND	
50 2,4-Dimethylphenol	107		7.078					ND	
52 Benzoic acid	122		7.120					ND	
53 Bis(2-chloroethoxy)methane	93		7.163					ND	
51 o,o',o''-Triethylphosphoro	198		7.182					ND	
54 2,4-Dichlorophenol	162		7.275					ND	
55 alpha,alpha-Dimethyl phene	58		7.353					ND	
56 1,2,4-Trichlorobenzene	180		7.366					ND	
58 Naphthalene	128		7.446					ND	
59 4-Chloroaniline	127		7.489					ND	
60 2,6-Dichlorophenol	162		7.500					ND	
61 Hexachloropropene	213		7.526					ND	
62 Hexachlorobutadiene	225		7.575					ND	
63 Quinoline	129		7.786					ND	
64 Caprolactam	113		7.788					ND	
65 N-Nitrosodi-n-butylamine	84		7.818					ND	
66 p-Phenylene diamine	108		7.834					ND	
67 4-Chloro-3-methylphenol	107		7.948					ND	
68 Safrole, Total	162		8.026					ND	
69 2-Methylnaphthalene	142		8.119					ND	
71 1-Methylnaphthalene	142		8.216					ND	
72 Hexachlorocyclopentadiene	237		8.280					ND	
73 1,2,4,5-Tetrachlorobenzene	216		8.285					ND	
74 2,4,6-Trichlorophenol	196		8.387					ND	
75 2,4,5-Trichlorophenol	196		8.419					ND	
180 Isosafrole	162		8.514					ND	
76 1,1'-Biphenyl	154		8.563					ND	
77 2-Chloronaphthalene	162		8.595					ND	
78 1-Chloronaphthalene	162		8.616					ND	
79 2-Nitroaniline	65		8.675					ND	
80 1,4-Naphthoquinone	158	8.467	8.750	-0.283	44	2702			NC
81 1,4-Dinitrobenzene	168	8.467	8.769	-0.302	31	19120			NC
82 Dimethyl phthalate	163		8.835					ND	
83 1,3-Dinitrobenzene	168		8.867					ND	
84 2,6-Dinitrotoluene	165		8.899					ND	
85 Acenaphthylene	152		8.996					ND	
86 3-Nitroaniline	138		9.065					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
88 Acenaphthene	153		9.161					ND	
87 2,4-Dinitrophenol	184		9.161					ND	
89 4-Nitrophenol	109		9.204					ND	
91 2,4-Dinitrotoluene	165		9.289					ND	
92 Pentachlorobenzene	250		9.294					ND	
93 Dibenzofuran	168		9.327					ND	
94 1-Naphthylamine	143		9.340					ND	
95 2,3,5,6-Tetrachlorophenol	232		9.396					ND	
96 2,3,4,6-Tetrachlorophenol	232		9.439					ND	
97 2-Naphthylamine	143		9.471					ND	
98 Diethyl phthalate	149		9.503					ND	
99 Hexadecane	57		9.514					ND	
102 N-Nitro-o-toluidine	152	9.888	9.586	0.302	42	2688			NC
100 4-Chlorophenyl phenyl ethe	204		9.642					ND	
101 4-Nitroaniline	138		9.647					ND	
103 Fluorene	166		9.658					ND	
104 4,6-Dinitro-2-methylphenol	198		9.679					ND	
105 N-Nitrosodiphenylamine	169		9.749					ND	
57 Azobenzene	77		9.792					ND	
90 1,2-Diphenylhydrazine	77		9.792					ND	
107 1,3,5-Trinitrobenzene	213		9.896					ND	
108 Phenacetin	108		9.939					ND	
109 Phorate	121		9.944					ND	
111 Dimethoate	87		10.099					ND	
110 4-Bromophenyl phenyl ether	248		10.107					ND	
112 Hexachlorobenzene	284		10.192					ND	
113 Atrazine	200		10.230					ND	
114 4-Aminobiphenyl	169	9.888	10.265	-0.376	55	7546			NC
117 Pronamide	173	9.888	10.297	-0.409	56	4198			NC
118 Pentachloronitrobenzene	237		10.302					ND	
116 Pentachlorophenol	266		10.368					ND	
115 n-Octadecane	57		10.385					ND	
119 Disulfoton	88		10.419					ND	
120 Dinoseb	211		10.545					ND	
121 Phenanthrene	178		10.593					ND	
123 Hexachlorophene TIC	198		10.600					ND	
122 Anthracene	178		10.646					ND	
125 Methyl parathion	109		10.793					ND	
124 Carbazole	167		10.796					ND	
126 Di-n-butyl phthalate	149		11.122					ND	
127 Ethyl Parathion	109		11.189					ND	
128 4-Nitroquinoline-1-oxide	190		11.263					ND	
129 Methapyrilene	58		11.317					ND	
70 Diphenamid	167		11.517					ND	
106 Diphenylamine	167		11.620					ND	
130 Isodrin	193		11.821					ND	
131 Fluoranthene	202		11.982					ND	
132 Benzidine	184		12.121					ND	
134 1,2,3,4 -Tetrachlorobenzen	216	12.495	12.215	0.280	49	4874			NC
133 Pyrene	202		12.302					ND	
135 p-Dimethylamino azobenzene	225	12.495	12.428	0.067	42	14654			NC
136 Chlorobenzilate	139		12.783					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
137 Famphur	218		12.850					ND	
139 3,3'-Dimethylbenzidine	212	12.495	12.936	-0.441	56	164957			NC
140 Kepone	272		13.030					ND	
138 Butyl benzyl phthalate	149		13.216					ND	
141 2-Acetylaminofluorene	181		13.363					ND	
142 Thionazin	97		13.789					ND	
143 4,4'-Methylene bis(2-chlor	231		13.881					ND	
144 3,3'-Dichlorobenzidine	252		14.199					ND	
145 Bis(2-ethylhexyl) phthalat	149		14.263					ND	
146 Benzo[a]anthracene	228		14.268					ND	
147 Chrysene	228		14.338					ND	
148 Sulfotepp	97		14.530					ND	
149 6-Methylchrysene	242		14.907					ND	
150 Di-n-octyl phthalate	149		15.556					ND	
151 7,12-Dimethylbenz(a)anthra	256		16.379					ND	
152 Benzo[b]fluoranthene	252		16.389					ND	
153 Benzo[k]fluoranthene	252		16.448					ND	
219 Benzo[e]pyrene	252		16.945					ND	
154 Benzo[a]pyrene	252		17.046					ND	
155 3-Methylcholanthrene	268		17.524					ND	
156 Dibenz[a,h]acridine	279		18.636					ND	
220 Dibenz[a,j]acridine	279		19.247					ND	
157 Indeno[1,2,3-cd]pyrene	276		19.482					ND	
158 Dibenz(a,h)anthracene	278		19.509					ND	
159 Benzo[g,h,i]perylene	276		20.145					ND	
167 Phthalic anhydride	104		0.000					ND	
168 Aramite Peak 1	185		0.000					ND	
187 1,2-Dibromo-3-Chloropropan	157		0.000					ND	
161 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
171 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
162 3-Chlorobenzoic Acid	139		0.000					ND	
172 Carbaryl	144		0.000					ND	
184 Diallate Peak 1	86		0.000					ND	
164 Aramite Peak 2	185		0.000					ND	
174 2-Chlorobenzoic Acid	139		0.000					ND	
214 1-Phenyl-1-(4-methylphenyl	1		0.000					ND	
218 Benzotrichloride TIC	1		0.000					ND	
183 2,3-Dichlorophenol	162		0.000					ND	
213 3-Methylphenol	1		0.000					ND	
165 Benzotrichloride	159		0.000					ND	
176 Dimethylformamide	73		0.000					ND	
177 1,2,3,4-Tetrahydronaphthal	104		0.000					ND	
182 4-Chlorophenol	128		0.000					ND	
215 1-Phenyl-1-(2,4-dimethylph	1		0.000					ND	
178 Trifluralin	306		0.000					ND	
173 Octachlorocyclopentene	307		0.000					ND	
170 4-tert-Octylphenol	135		0.000					ND	
169 Octachlorostyrene	308		0.000					ND	
212 2,3,7,8-TCDD TIC	1		0.000					ND	
185 4-Nitrobiphenyl	199		0.000					ND	
179 2,5-Dichlorophenol	162		0.000					ND	
166 4-Chloro-3-nitro-alpha,alp	179		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
160 n,n'-Dimethylaniline	120		0.000					ND	
188 2-Bromonaphthalene	127		0.000					ND	
175 1,2,3-Trimethylbenzene	105		0.000					ND	
181 4-Chlorobenzoic Acid	139		0.000					ND	
186 o-Phenylphenol	1		0.000					ND	
163 Diallate Peak 2	86		0.000					ND	
189 Pentachlorophenol_T	266		5.451					ND	
191 Benzidine_T	184		8.127					ND	
192 4,4'-DDE	246		8.656					ND	
194 4,4'-DDT	235		9.196					ND	
193 4,4'-DDD	235		9.789					ND	
S 195 Aramite, Total	185		1.000					ND	
S 198 Diallate	86		0.000					ND	
S 199 Total Cresols	108		0.000					ND	
S 196 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
S 197 Methyl Phenols,Total	108		0.000					ND	
T 216 1-Phenyl-1-(2,4-dimethylph	195		9.600					ND	
T 217 1-Phenyl-1-(4-methylphenyl	181		9.700					ND	
T 221 Phenyl ether TIC	170	12.489	11.513	0.989	0	20335		0.5409	
T 200 Quinoline TIC	129		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

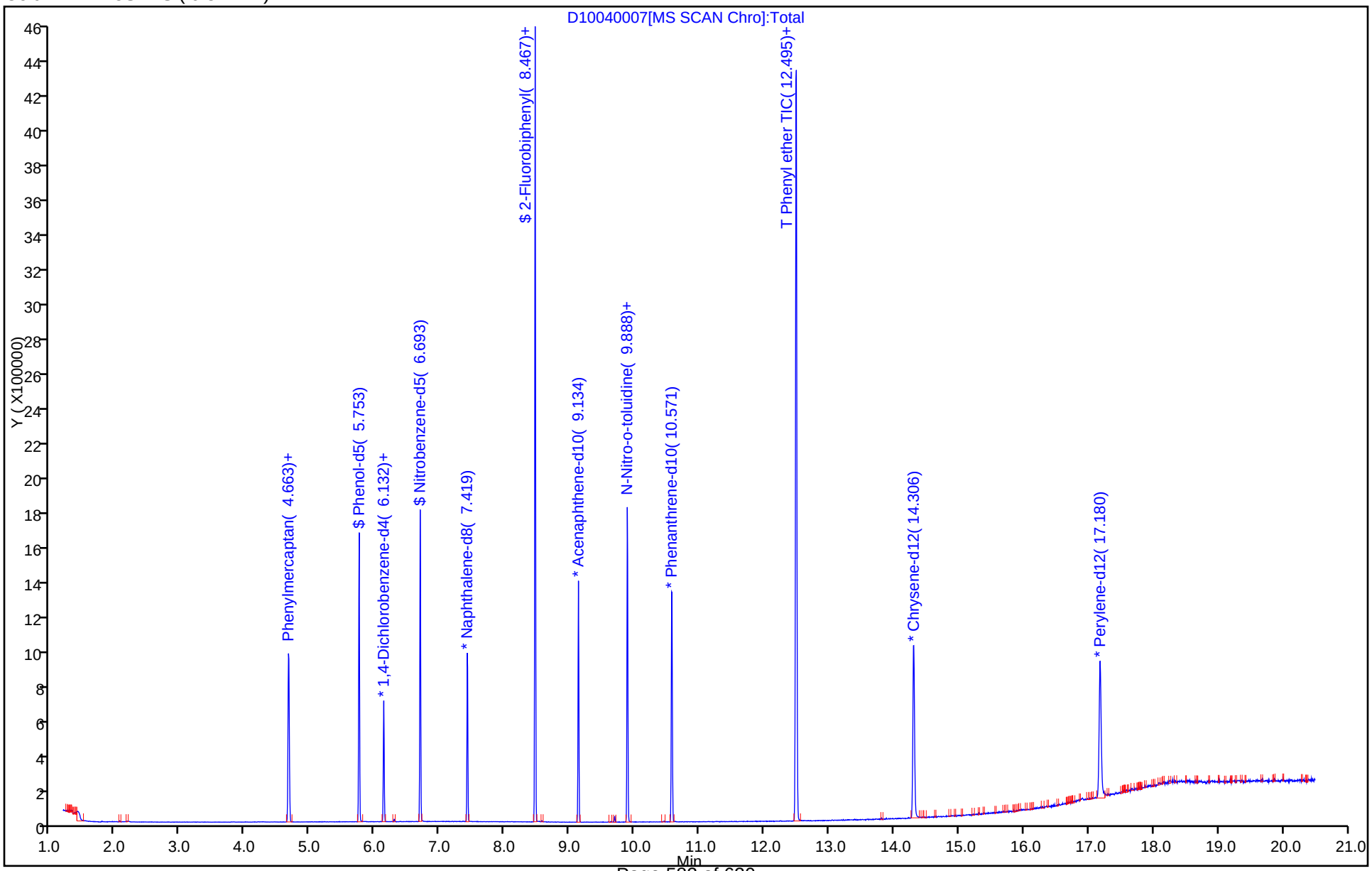
Report Date: 05-Oct-2015 06:49:13 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040007.D

Injection Date:	04-Oct-2015 17:58:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	MB 180-155373/1-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-155373/2-A

Matrix: Water | Lab File ID: D10040012.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 09/30/2015 08:57

Sample wt/vol: 250(mL) | Date Analyzed: 10/04/2015 20:08

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.: 155804 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	12.2		2.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	67		28-109
367-12-4	2-Fluorophenol (Surr)	66		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	73		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	69		27-114
4165-62-2	Phenol-d5 (Surr)	66		25-105
1718-51-0	Terphenyl-d14 (Surr)	67		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040012.D
Lims ID: LCS 180-155373/2-A
Client ID:
Sample Type: LCS
Inject. Date: 04-Oct-2015 20:08:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008812-012
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 05-Oct-2015 06:48:51 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 05-Oct-2015 06:41:02

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	6.132	6.137	-0.005	96	109356	8.00	8.00	
* 2 Naphthalene-d8	136	7.425	7.425	0.000	99	441302	8.00	8.00	
* 3 Acenaphthene-d10	164	9.140	9.134	0.006	93	306582	8.00	8.00	
* 4 Phenanthrene-d10	188	10.582	10.571	0.011	97	634039	8.00	8.00	
* 5 Chrysene-d12	240	14.322	14.295	0.027	97	757192	8.00	8.00	
* 6 Perylene-d12	264	17.201	17.169	0.032	97	677675	8.00	8.00	
$ 7 2-Fluorophenol	112	4.658	4.679	-0.021	93	402547	40.0	26.5	
$ 8 Phenol-d5	99	5.753	5.758	-0.005	93	543064	40.0	26.3	
$ 9 Nitrobenzene-d5	82	6.693	6.698	-0.005	90	606671	40.0	27.6	
$ 10 2-Fluorobiphenyl	172	8.472	8.467	0.005	100	1525970	40.0	26.8	
$ 11 2,4,6-Tribromophenol	330	9.898	9.888	0.010	87	184066	40.0	29.2	
$ 12 Terphenyl-d14	244	12.505	12.479	0.026	99	2097346	40.0	26.6	
13 1,4-Dioxane	88	1.447	1.484	-0.037	89	141038	40.0	24.4	
14 N-Nitrosodimethylamine	74	2.019	2.061	-0.042	86	191377	40.0	28.3	
15 Pyridine	79	2.083	2.131	-0.048	95	382485	40.0	29.5	
25 Benzaldehyde	77	5.657	5.667	-0.010	93	324475	40.0	29.7	
26 Phenol	94	5.763	5.774	-0.011	97	607626	40.0	25.5	
27 Aniline	93	5.779	5.785	-0.006	97	693433	40.0	26.1	
29 Bis(2-chloroethyl)ether	93	5.849	5.860	-0.011	95	398072	40.0	25.4	
30 2-Chlorophenol	128	5.908	5.918	-0.010	96	488468	40.0	27.2	
31 n-Decane	43	5.977	5.988	-0.011	84	390555	40.0	30.9	
32 1,3-Dichlorobenzene	146	6.073	6.079	-0.006	96	588261	40.0	25.5	
33 1,4-Dichlorobenzene	146	6.148	6.153	-0.005	92	601813	40.0	25.3	
34 Benzyl alcohol	108	6.271	6.276	-0.005	88	301196	40.0	27.7	
35 1,2-Dichlorobenzene	146	6.308	6.314	-0.006	95	578377	40.0	25.6	
36 2-Methylphenol	108	6.394	6.399	-0.005	97	455552	40.0	27.4	
37 Indene	116	6.399	6.405	-0.006	90	861823	40.0	25.1	
38 2,2'-oxybis[1-chloropropan	45	6.421	6.426	-0.005	88	476349	40.0	31.3	
40 Acetophenone	105	6.543	6.543	0.000	81	703415	40.0	25.7	
42 4-Methylphenol	108	6.549	6.549	0.000	90	484328	40.0	27.7	
41 N-Nitrosodi-n-propylamine	70	6.543	6.549	-0.006	85	359022	40.0	27.7	
45 Hexachloroethane	117	6.661	6.666	-0.005	90	256138	40.0	26.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
46 Nitrobenzene	77	6.714	6.720	-0.006	88	606774	40.0	27.2	
48 Isophorone	82	6.955	6.955	0.000	99	1027377	40.0	28.6	
49 2-Nitrophenol	139	7.040	7.040	0.000	98	296982	40.0	28.4	
50 2,4-Dimethylphenol	107	7.078	7.078	0.000	99	620855	40.0	28.1	
52 Benzoic acid	122	7.152	7.120	0.032	89	285525	40.0	27.7	
53 Bis(2-chloroethoxy)methane	93	7.163	7.163	0.000	98	566752	40.0	25.5	
54 2,4-Dichlorophenol	162	7.275	7.275	0.000	95	503869	40.0	28.0	
56 1,2,4-Trichlorobenzene	180	7.366	7.366	0.000	94	624688	40.0	26.9	
58 Naphthalene	128	7.446	7.446	0.000	98	1674551	40.0	26.2	
59 4-Chloroaniline	127	7.489	7.489	0.000	94	697543	40.0	27.8	
60 2,6-Dichlorophenol	162	7.500	7.500	0.000	96	505162	40.0	28.2	
62 Hexachlorobutadiene	225	7.574	7.575	0.000	94	444869	40.0	26.7	
64 Caprolactam	113	7.799	7.788	0.011	80	159819	40.0	31.6	
67 4-Chloro-3-methylphenol	107	7.954	7.948	0.006	94	564275	40.0	29.4	
69 2-Methylnaphthalene	142	8.119	8.119	0.000	91	1239414	40.0	26.5	
71 1-Methylnaphthalene	142	8.221	8.216	0.005	92	1080281	40.0	26.5	
72 Hexachlorocyclopentadiene	237	8.285	8.280	0.005	96	518832	40.0	27.4	
73 1,2,4,5-Tetrachlorobenzene	216	8.290	8.285	0.005	97	725772	40.0	25.5	
74 2,4,6-Trichlorophenol	196	8.392	8.387	0.005	93	449883	40.0	30.3	
75 2,4,5-Trichlorophenol	196	8.424	8.419	0.005	94	469685	40.0	29.6	
76 1,1'-Biphenyl	154	8.568	8.563	0.005	95	1590101	40.0	26.2	
77 2-Chloronaphthalene	162	8.595	8.595	0.000	97	1236162	40.0	26.9	
79 2-Nitroaniline	65	8.680	8.675	0.005	79	416381	40.0	32.6	
82 Dimethyl phthalate	163	8.846	8.835	0.011	98	1520163	40.0	30.2	
83 1,3-Dinitrobenzene	168	8.878	8.867	0.011	85	240725	40.0	30.9	
84 2,6-Dinitrotoluene	165	8.905	8.899	0.006	94	352072	40.0	31.3	
85 Acenaphthylene	152	9.001	8.996	0.005	98	2076206	40.0	28.6	
86 3-Nitroaniline	138	9.076	9.065	0.011	91	368691	40.0	32.5	
88 Acenaphthene	153	9.172	9.161	0.011	86	1342373	40.0	27.1	
87 2,4-Dinitrophenol	184	9.172	9.161	0.011	71	476415	80.0	54.4	
89 4-Nitrophenol	109	9.215	9.204	0.011	93	557777	80.0	68.5	
91 2,4-Dinitrotoluene	165	9.295	9.289	0.006	92	492121	40.0	31.1	
93 Dibenzofuran	168	9.337	9.327	0.010	96	1985192	40.0	27.8	
96 2,3,4,6-Tetrachlorophenol	232	9.444	9.439	0.005	73	450664	40.0	29.7	
98 Diethyl phthalate	149	9.514	9.503	0.011	97	1551191	40.0	30.3	
99 Hexadecane	57	9.524	9.514	0.010	97	796044	40.0	31.0	
100 4-Chlorophenyl phenyl ethe	204	9.647	9.642	0.005	93	871231	40.0	28.1	
101 4-Nitroaniline	138	9.663	9.647	0.016	78	393723	40.0	31.4	
103 Fluorene	166	9.663	9.658	0.005	94	1658641	40.0	28.4	
104 4,6-Dinitro-2-methylphenol	198	9.690	9.679	0.011	88	686890	80.0	60.6	
105 N-Nitrosodiphenylamine	169	9.759	9.749	0.010	62	2484632	80.0	53.5	
57 Azobenzene	77	9.802	9.792	0.010	99	1709719	40.0	27.2	
90 1,2-Diphenylhydrazine	77	9.802	9.792	0.010	99	1709719	40.0	27.2	
110 4-Bromophenyl phenyl ether	248	10.117	10.107	0.010	67	511477	40.0	27.5	
112 Hexachlorobenzene	284	10.208	10.192	0.016	92	476200	40.0	26.9	
113 Atrazine	200	10.246	10.230	0.016	94	527411	40.0	29.3	
116 Pentachlorophenol	266	10.384	10.368	0.016	90	681070	80.0	56.7	
115 n-Octadecane	57	10.395	10.385	0.010	97	919236	40.0	33.6	
121 Phenanthrene	178	10.609	10.593	0.016	97	2640197	40.0	26.7	
122 Anthracene	178	10.662	10.646	0.016	97	2676666	40.0	27.5	
124 Carbazole	167	10.812	10.796	0.016	96	2410301	40.0	28.7	
126 Di-n-butyl phthalate	149	11.143	11.122	0.021	100	2804136	40.0	30.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
131 Fluoranthene	202	12.003	11.982	0.021	97	3173077	40.0	29.4	
132 Benzidine	184	12.142	12.121	0.021	99	601587	40.0	13.1	
133 Pyrene	202	12.324	12.302	0.022	99	3251982	40.0	26.4	
138 Butyl benzyl phthalate	149	13.248	13.216	0.032	98	1246850	40.0	30.3	
144 3,3'-Dichlorobenzidine	252	14.231	14.199	0.032	74	965982	40.0	24.5	
145 Bis(2-ethylhexyl) phthalat	149	14.290	14.263	0.027	96	1758577	40.0	27.8	
146 Benzo[a]anthracene	228	14.300	14.268	0.032	98	3212736	40.0	26.2	
147 Chrysene	228	14.370	14.338	0.032	96	3034057	40.0	26.5	
150 Di-n-octyl phthalate	149	15.593	15.556	0.037	99	3054251	40.0	27.7	
152 Benzo[b]fluoranthene	252	16.432	16.389	0.043	95	3089789	40.0	26.2	
153 Benzo[k]fluoranthene	252	16.480	16.448	0.032	99	3237571	40.0	27.4	
154 Benzo[a]pyrene	252	17.089	17.046	0.043	79	3025013	40.0	27.7	
157 Indeno[1,2,3-cd]pyrene	276	19.530	19.482	0.048	99	3390902	40.0	29.8	
158 Dibenz(a,h)anthracene	278	19.573	19.509	0.064	87	2697016	40.0	29.2	
159 Benzo[g,h,i]perylene	276	20.209	20.145	0.064	98	2904918	40.0	30.0	
S 199 Total Cresols	108				0		80.0	55.1	
S 197 Methyl Phenols,Total	108				0		80.0	55.1	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

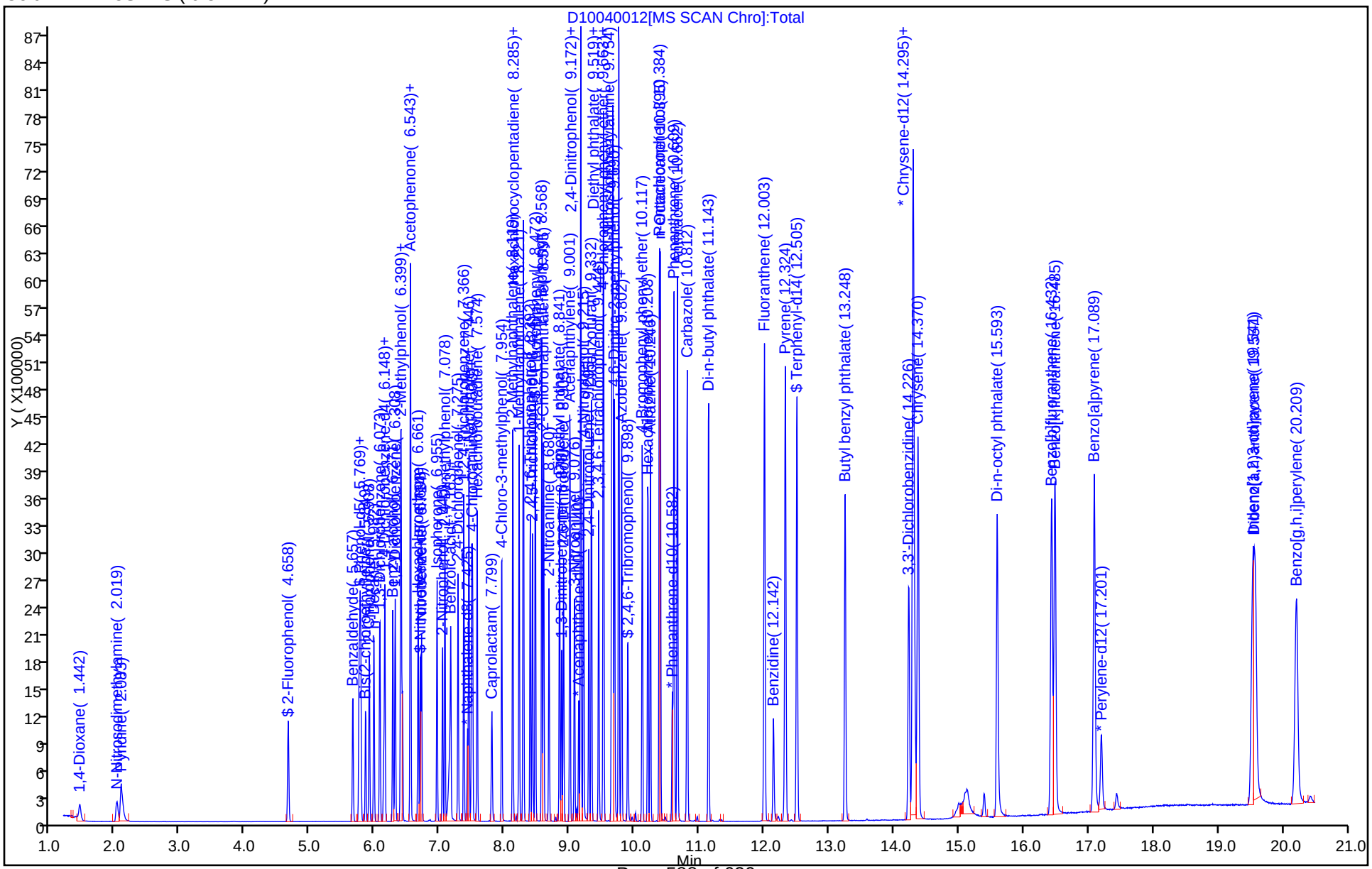
Report Date: 05-Oct-2015 06:49:35 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040012.D

Injection Date:	04-Oct-2015 20:08:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	LCS 180-155373/2-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48073-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-155373/3-A

Matrix: Water | Lab File ID: D10040013.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 09/30/2015 08:57

Sample wt/vol: 250(mL) | Date Analyzed: 10/04/2015 20:34

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.: 155804 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	12.3		2.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	67		28-109
367-12-4	2-Fluorophenol (Surr)	67		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	74		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	70		27-114
4165-62-2	Phenol-d5 (Surr)	67		25-105
1718-51-0	Terphenyl-d14 (Surr)	65		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040013.D
Lims ID: LCSD 180-155373/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 04-Oct-2015 20:34:30 ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008812-013
Operator ID: 003200 Instrument ID: CH732

Method: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\BNA_CH732.m
Limit Group: BNA 8270D ICAL
Last Update: 05-Oct-2015 06:48:51 Calib Date: 15-Sep-2015 15:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH732\20150915-8527.b\D09150011.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 05-Oct-2015 06:41:33

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	6.132	6.137	-0.005	96	108596	8.00	8.00	
* 2 Naphthalene-d8	136	7.425	7.425	0.000	99	441140	8.00	8.00	
* 3 Acenaphthene-d10	164	9.140	9.134	0.006	93	307854	8.00	8.00	
* 4 Phenanthrene-d10	188	10.582	10.571	0.011	97	615370	8.00	8.00	
* 5 Chrysene-d12	240	14.316	14.295	0.021	96	775386	8.00	8.00	
* 6 Perylene-d12	264	17.196	17.169	0.027	97	710346	8.00	8.00	
$ 7 2-Fluorophenol	112	4.663	4.679	-0.016	92	402763	40.0	26.7	
$ 8 Phenol-d5	99	5.753	5.758	-0.005	94	547215	40.0	26.7	
$ 9 Nitrobenzene-d5	82	6.698	6.698	0.000	90	611825	40.0	27.8	
$ 10 2-Fluorobiphenyl	172	8.466	8.467	-0.001	100	1533456	40.0	26.8	
$ 11 2,4,6-Tribromophenol	330	9.893	9.888	0.005	85	181883	40.0	29.8	
$ 12 Terphenyl-d14	244	12.500	12.479	0.021	99	2084513	40.0	25.9	
13 1,4-Dioxane	88	1.457	1.484	-0.027	91	141217	40.0	24.6	
14 N-Nitrosodimethylamine	74	2.029	2.061	-0.032	86	187112	40.0	27.8	
15 Pyridine	79	2.104	2.131	-0.027	95	377210	40.0	29.3	
25 Benzaldehyde	77	5.656	5.667	-0.011	93	317331	40.0	29.3	
26 Phenol	94	5.769	5.774	-0.005	97	613965	40.0	26.0	
27 Aniline	93	5.779	5.785	-0.006	93	707050	40.0	26.7	
29 Bis(2-chloroethyl)ether	93	5.854	5.860	-0.006	94	395889	40.0	25.4	
30 2-Chlorophenol	128	5.913	5.918	-0.005	95	486252	40.0	27.2	
31 n-Decane	43	5.982	5.988	-0.006	83	390953	40.0	31.1	
32 1,3-Dichlorobenzene	146	6.073	6.079	-0.006	96	590211	40.0	25.8	
33 1,4-Dichlorobenzene	146	6.153	6.153	0.000	92	608841	40.0	25.8	
34 Benzyl alcohol	108	6.276	6.276	0.000	88	311885	40.0	28.9	
35 1,2-Dichlorobenzene	146	6.308	6.314	-0.006	94	582409	40.0	25.9	
36 2-Methylphenol	108	6.394	6.399	-0.005	97	461513	40.0	28.0	
37 Indene	116	6.404	6.405	-0.001	90	866743	40.0	25.4	
38 2,2'-oxybis[1-chloropropan	45	6.420	6.426	-0.006	88	487679	40.0	32.3	
40 Acetophenone	105	6.543	6.543	0.000	93	722593	40.0	26.6	
42 4-Methylphenol	108	6.549	6.549	0.000	92	494557	40.0	28.5	
41 N-Nitrosodi-n-propylamine	70	6.543	6.549	-0.006	71	376875	40.0	29.2	
45 Hexachloroethane	117	6.661	6.666	-0.005	90	257644	40.0	27.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
46 Nitrobenzene	77	6.714	6.720	-0.006	89	617569	40.0	27.6	
48 Isophorone	82	6.955	6.955	0.000	99	1057187	40.0	29.4	
49 2-Nitrophenol	139	7.040	7.040	0.000	97	303320	40.0	29.0	
50 2,4-Dimethylphenol	107	7.077	7.078	-0.001	99	625049	40.0	28.3	
52 Benzoic acid	122	7.152	7.120	0.032	90	305126	40.0	29.4	
53 Bis(2-chloroethoxy)methane	93	7.168	7.163	0.005	98	584054	40.0	26.2	
54 2,4-Dichlorophenol	162	7.280	7.275	0.005	95	514831	40.0	28.7	
56 1,2,4-Trichlorobenzene	180	7.366	7.366	0.000	94	630555	40.0	27.2	
58 Naphthalene	128	7.446	7.446	0.000	98	1697373	40.0	26.5	
59 4-Chloroaniline	127	7.489	7.489	0.000	95	707523	40.0	28.2	
60 2,6-Dichlorophenol	162	7.505	7.500	0.005	97	508893	40.0	28.5	
62 Hexachlorobutadiene	225	7.574	7.575	0.000	94	445178	40.0	26.7	
64 Caprolactam	113	7.799	7.788	0.011	80	156532	40.0	30.9	
67 4-Chloro-3-methylphenol	107	7.954	7.948	0.006	94	561706	40.0	29.3	
69 2-Methylnaphthalene	142	8.119	8.119	0.000	91	1244816	40.0	26.6	
71 1-Methylnaphthalene	142	8.221	8.216	0.005	91	1087659	40.0	26.7	
72 Hexachlorocyclopentadiene	237	8.285	8.280	0.005	96	524148	40.0	27.5	
73 1,2,4,5-Tetrachlorobenzene	216	8.290	8.285	0.005	97	721257	40.0	25.2	
74 2,4,6-Trichlorophenol	196	8.392	8.387	0.005	93	457508	40.0	30.7	
75 2,4,5-Trichlorophenol	196	8.424	8.419	0.005	94	481272	40.0	30.2	
76 1,1'-Biphenyl	154	8.568	8.563	0.005	95	1614723	40.0	26.5	
77 2-Chloronaphthalene	162	8.595	8.595	0.000	97	1260204	40.0	27.3	
79 2-Nitroaniline	65	8.680	8.675	0.005	79	415815	40.0	32.4	
82 Dimethyl phthalate	163	8.840	8.835	0.005	98	1489739	40.0	29.5	
83 1,3-Dinitrobenzene	168	8.878	8.867	0.011	85	238472	40.0	30.5	
84 2,6-Dinitrotoluene	165	8.905	8.899	0.006	94	343755	40.0	30.5	
85 Acenaphthylene	152	9.001	8.996	0.005	98	2064368	40.0	28.4	
86 3-Nitroaniline	138	9.070	9.065	0.005	90	369586	40.0	32.5	
88 Acenaphthene	153	9.172	9.161	0.011	87	1343402	40.0	27.0	
87 2,4-Dinitrophenol	184	9.172	9.161	0.011	70	472448	80.0	53.7	
89 4-Nitrophenol	109	9.214	9.204	0.010	94	546637	80.0	66.9	
91 2,4-Dinitrotoluene	165	9.295	9.289	0.006	92	485592	40.0	30.5	
93 Dibenzofuran	168	9.332	9.327	0.005	96	1968088	40.0	27.4	
96 2,3,4,6-Tetrachlorophenol	232	9.444	9.439	0.005	73	450209	40.0	29.5	
98 Diethyl phthalate	149	9.514	9.503	0.011	97	1539882	40.0	29.9	
99 Hexadecane	57	9.524	9.514	0.010	98	798674	40.0	31.1	
100 4-Chlorophenyl phenyl ethe	204	9.647	9.642	0.005	92	852272	40.0	27.4	
101 4-Nitroaniline	138	9.658	9.647	0.011	78	393255	40.0	31.3	
103 Fluorene	166	9.663	9.658	0.005	93	1632313	40.0	27.8	
104 4,6-Dinitro-2-methylphenol	198	9.690	9.679	0.011	87	671942	80.0	61.0	
105 N-Nitrosodiphenylamine	169	9.754	9.749	0.005	62	2463975	80.0	54.7	
57 Azobenzene	77	9.797	9.792	0.005	99	1699778	40.0	27.9	
90 1,2-Diphenylhydrazine	77	9.797	9.792	0.005	99	1699778	40.0	27.9	
110 4-Bromophenyl phenyl ether	248	10.117	10.107	0.010	66	500312	40.0	27.7	
112 Hexachlorobenzene	284	10.203	10.192	0.011	92	466192	40.0	27.1	
113 Atrazine	200	10.240	10.230	0.010	94	521524	40.0	29.8	
116 Pentachlorophenol	266	10.379	10.368	0.011	90	674414	80.0	57.9	
115 n-Octadecane	57	10.395	10.385	0.010	97	913833	40.0	33.6	
121 Phenanthrene	178	10.603	10.593	0.010	97	2606924	40.0	27.2	
122 Anthracene	178	10.657	10.646	0.011	97	2680979	40.0	28.4	
124 Carbazole	167	10.812	10.796	0.016	96	2392040	40.0	29.4	
126 Di-n-butyl phthalate	149	11.138	11.122	0.016	100	2759615	40.0	30.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
131 Fluoranthene	202	11.998	11.982	0.016	97	3160221	40.0	30.2	
132 Benzidine	184	12.137	12.121	0.016	99	624618	40.0	13.2	
133 Pyrene	202	12.318	12.302	0.016	98	3257277	40.0	25.8	
138 Butyl benzyl phthalate	149	13.242	13.216	0.026	98	1257755	40.0	29.8	
144 3,3'-Dichlorobenzidine	252	14.225	14.199	0.026	74	1007755	40.0	24.9	
145 Bis(2-ethylhexyl) phthalat	149	14.290	14.263	0.027	96	1799721	40.0	27.8	
146 Benzo[a]anthracene	228	14.295	14.268	0.027	98	3300007	40.0	26.3	
147 Chrysene	228	14.364	14.338	0.026	96	3164354	40.0	27.0	
150 Di-n-octyl phthalate	149	15.588	15.556	0.032	100	3214094	40.0	27.8	
152 Benzo[b]fluoranthene	252	16.426	16.389	0.037	96	3290317	40.0	26.7	
153 Benzo[k]fluoranthene	252	16.474	16.448	0.026	99	3385892	40.0	27.3	
154 Benzo[a]pyrene	252	17.084	17.046	0.038	81	3216435	40.0	28.1	
157 Indeno[1,2,3-cd]pyrene	276	19.525	19.482	0.043	99	3536694	40.0	29.6	
158 Dibenz(a,h)anthracene	278	19.562	19.509	0.053	92	2840927	40.0	29.3	
159 Benzo[g,h,i]perylene	276	20.193	20.145	0.048	98	2981090	40.0	29.4	
S 199 Total Cresols	108				0		80.0	56.5	
S 197 Methyl Phenols,Total	108				0		80.0	56.5	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

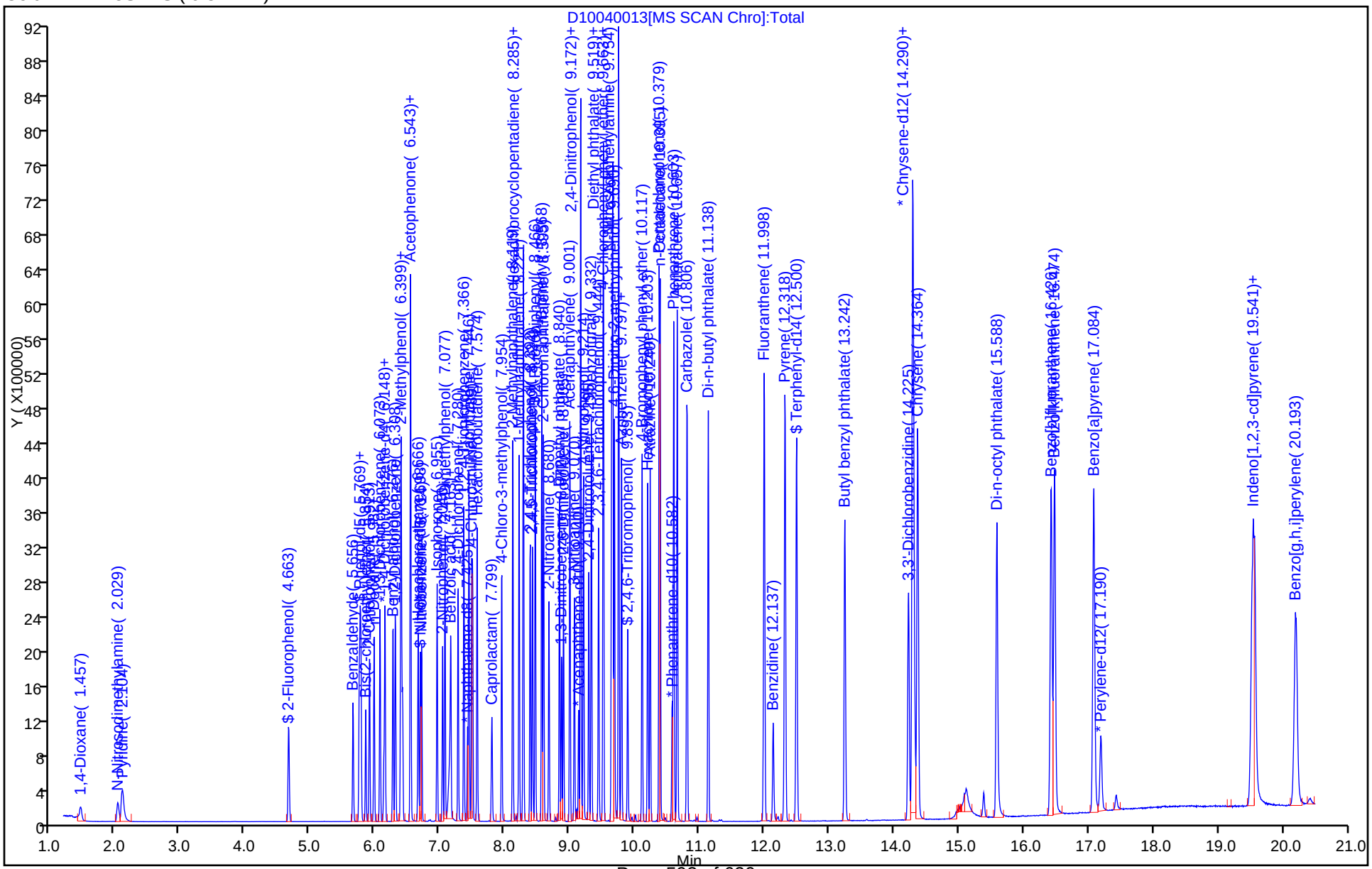
Report Date: 05-Oct-2015 06:49:39 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH732\20151004-8812.b\D10040013.D

Injection Date:	04-Oct-2015 20:34:30	Instrument ID:	CH732	Operator ID:	003200
Lims ID:	LCSD 180-155373/3-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	BNA_CH732	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CH732 Start Date: 08/27/2015 05:10

Analysis Batch Number: 151940 End Date: 08/27/2015 10:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-151940/2		08/27/2015 05:10	1	D08270002.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/3		08/27/2015 05:25	1	D08270003.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/4		08/27/2015 05:51	1	D08270004.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/5		08/27/2015 06:18	1	D08270005.D	Rxi-5SilMS 0.32(mm)
ICIS 180-151940/6		08/27/2015 06:44	1	D08270006.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/7		08/27/2015 07:23	1	D08270007.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/8		08/27/2015 07:49	1	D08270008.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/9		08/27/2015 08:16	1	D08270009.D	Rxi-5SilMS 0.32(mm)
IC 180-151940/10		08/27/2015 08:42	1	D08270010.D	Rxi-5SilMS 0.32(mm)
ICV 180-151940/11		08/27/2015 09:27	1		Rxi-5SilMS 0.32(mm)
ICV 180-151940/12		08/27/2015 09:53	1		Rxi-5SilMS 0.32(mm)
ICV 180-151940/13		08/27/2015 10:19	1		Rxi-5SilMS 0.32(mm)
ICV 180-151940/14		08/27/2015 10:46	1		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: CH732 Start Date: 10/04/2015 16:02

Analysis Batch Number: 155804 End Date: 10/04/2015 23:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-155804/2		10/04/2015 16:02	1	D10040002.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-155804/3		10/04/2015 16:17	1	D10040003.D	Rxi-5SilMS 0.32(mm)
MB 180-155373/1-A		10/04/2015 17:58	1	D10040007.D	Rxi-5SilMS 0.32(mm)
LCS 180-155373/2-A		10/04/2015 20:08	1	D10040012.D	Rxi-5SilMS 0.32(mm)
LCSD 180-155373/3-A		10/04/2015 20:34	1	D10040013.D	Rxi-5SilMS 0.32(mm)
180-48073-4	HD-MW-49S-0/1-0	10/04/2015 23:44	1	D10040021.D	Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Batch Number: 155373 Batch Start Date: 09/30/15 14:55 Batch Analyst: Trout, Bill

Batch Method: 3520C Batch End Date: 10/01/15 09:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	FirstAdjustpH	OPLVISPKMIX1i 00044	OPQL8270SURi 00034
MB 180-155373/1		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2		25 uL
LCS 180-155373/2		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2	25 uL	25 uL
LCSD 180-155373/3		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2	25 uL	25 uL
180-48073-D-4	HD-MW-49S-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	bp/cdm
Time the first extraction ended 24hr	0915
Time the first extraction started 24 hr	1455
N-evap #	1
Na2SO4 Lot Number	1648567
pH Paper Lot Number	Ph paper HC554612
Prep Solvent Lot #	1715911
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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-48073-1

SDG No.:

Project: Harley Davidson

Client Sample ID	Lab Sample ID
HD-MW-57-0/1-0	180-48073-6

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: HD-MW-57-0/1-0 Lab Sample ID: 180-48073-6

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG ID.:

Matrix: Water Date Sampled: 09/23/2015 14:17

Reporting Basis: WET Date Received: 09/24/2015 08:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	0.039	0.010	0.0019	mg/L			1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: HD-MW-57-0/1-0 Lab Sample ID: 180-48073-6

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG ID.:

Matrix: Water Date Sampled: 09/23/2015 14:17

Reporting Basis: WET Date Received: 09/24/2015 08:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	0.038	0.010	0.0019	mg/L			1	7196A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Analyst: JLR Batch Start Date: 09/24/2015

Reporting Units: mg/L Analytical Batch No.: 154747

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	10:40	Cr (VI)	0.252	0.250	101	90-110		WCr6P50i_00030
2	ICB	10:43	Cr (VI)	0.010				U	
3	CCV	10:46	Cr (VI)	0.264	0.250	106	90-110		WCr6S50SP_00045
4	CCB	10:49	Cr (VI)	0.010				U	
13	CCV	11:16	Cr (VI)	0.263	0.250	105	90-110		WCr6S50SP_00045
14	CCB	11:19	Cr (VI)	0.010				U	

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 154747 Date: 09/24/2015 10:55							
7196A	MB 180-154747/6	Cr (VI)	0.010	U	mg/L	0.010	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 154747 Date: 09/24/2015 11:01											
7196A	180-48073-6	Cr (VI)	0.039		mg/L						
7196A	180-48073-6 MS	Cr (VI)	0.280		mg/L	0.250	96	85-115			
Batch ID: 154747 Date: 09/24/2015 11:10											
7196A	180-48073-6	Cr (VI)	0.038		mg/L						
7196A	180-48073-6 MS	Cr (VI)	0.283		mg/L	0.250	98	85-115			

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

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 154747 Date: 09/24/2015 11:04											
7196A	180-48073-6 MSD	Cr (VI)	0.284		mg/L	0.250	98	85-115	1	20	
Batch ID: 154747 Date: 09/24/2015 11:13											
7196A	180-48073-6 MSD	Cr (VI)	0.280		mg/L	0.250	97	85-115	1	20	

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

FORM V-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 154747	Date: 09/24/2015 10:52										
						LCS Source: WCr6S50SP_00045					
7196A	LCS 180-154747/5	Cr (VI)	0.263		mg/L	0.250	105	85-115			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-48073-1

SDG Number:

Matrix: Water Instrument ID: GENESYS10S

Method: 7196A MDL Date: 01/23/2013 13:32

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cr (VI)	540	0.01	0.0019

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-48073-1

SDG Number:

Matrix: Water Instrument ID: GENESYS10S

Method: 7196A XMDL Date: 01/23/2013 13:33

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cr (VI)	540	0.01	0.0019

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Pittsburgh Job Number: 180-48073-1

SDG Number:

Matrix: Water Instrument ID: GENESYS10S

Method: 7196A MDL Date: 01/23/2013 13:32

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cr (VI)	540	0.01	0.0019

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Pittsburgh Job Number: 180-48073-1

SDG Number:

Matrix: Water Instrument ID: GENESYS10S

Method: 7196A XMDL Date: 01/23/2013 13:33

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cr (VI)	540	0.01	0.0019

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Instrument ID: GENESYS10S Analysis Method: 7196A

Start Date: 09/24/2015 10:40 End Date: 09/24/2015 11:19

Lab Sample Id	D/F	Type	Time	Analytes																								
				Cr6																								
ICV 180-154747/1	1		10:40	X																								
ICB 180-154747/2	1		10:43	X																								
CCV 180-154747/3	1		10:46	X																								
CCB 180-154747/4	1		10:49	X																								
LCS 180-154747/5	1	T	10:52	X																								
MB 180-154747/6	1	T	10:55	X																								
180-48073-6	1	T	10:58	X																								
180-48073-6 MS	1	T	11:01	X																								
180-48073-6 MSD	1	T	11:04	X																								
180-48073-6	1	D	11:07	X																								
180-48073-6 MS	1	D	11:10	X																								
180-48073-6 MSD	1	D	11:13	X																								
CCV 180-154747/13	1		11:16	X																								
CCB 180-154747/14	1		11:19	X																								

Prep Types:
D = Dissolved
T = Total/NA

TO2 9/25/15

Calibration

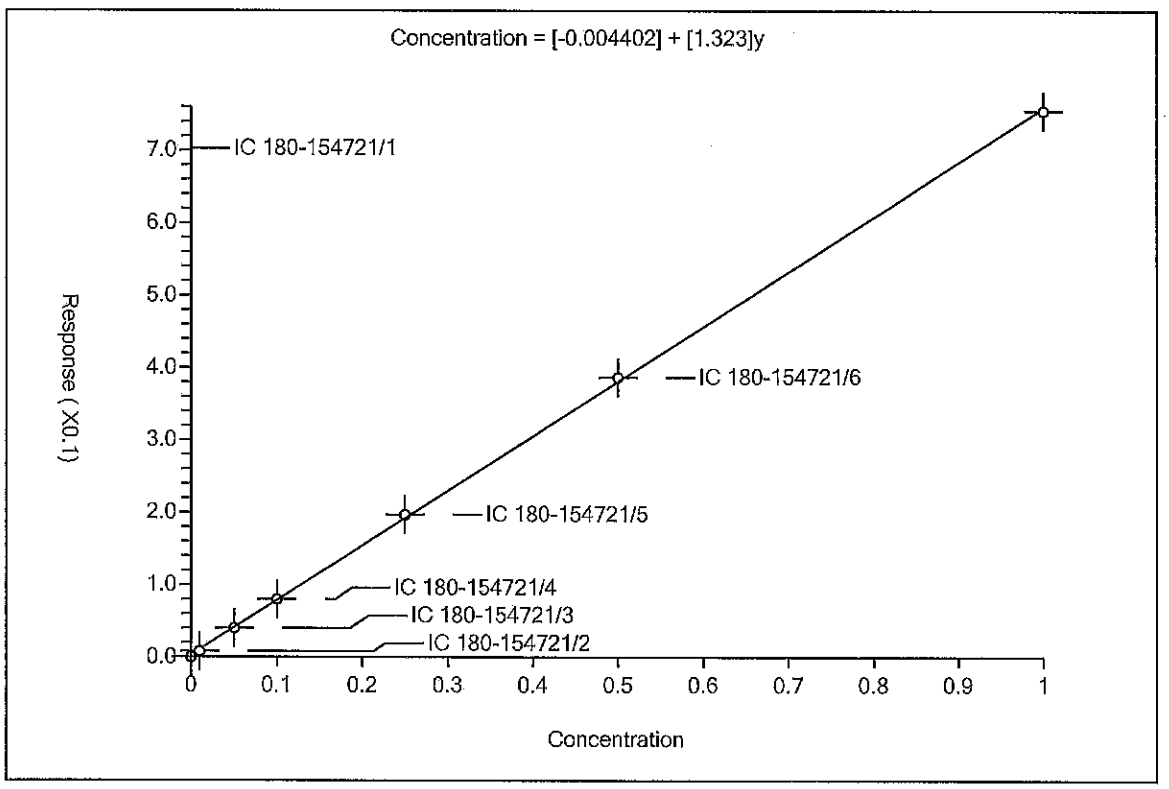
Calib 154721-0 / Cr (VI)

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
RF Rounding:	0

Curve Coefficients	
Intercept:	-0.004402
Slope:	1.323

Error Coefficients	
Standard Error:	0.005752
Relative Standard Error:	NC
Correlation Coefficient:	0.9999
Coefficient of Determination (Adjusted):	0.9998 (0.9998)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 180-154721/1	0.0	0.0			NaN	Y
2	IC 180-154721/2	0.01	0.008			0.800038	Y
3	IC 180-154721/3	0.049998	0.04			0.800038	Y
4	IC 180-154721/4	0.099995	0.08			0.800038	Y
5	IC 180-154721/5	0.249988	0.197			0.788037	Y
6	IC 180-154721/6	0.499976	0.387			0.774037	Y
7	IC 180-154721/7	0.999953	0.755			0.755036	Y



BR 9/25/15 154747

Calibration

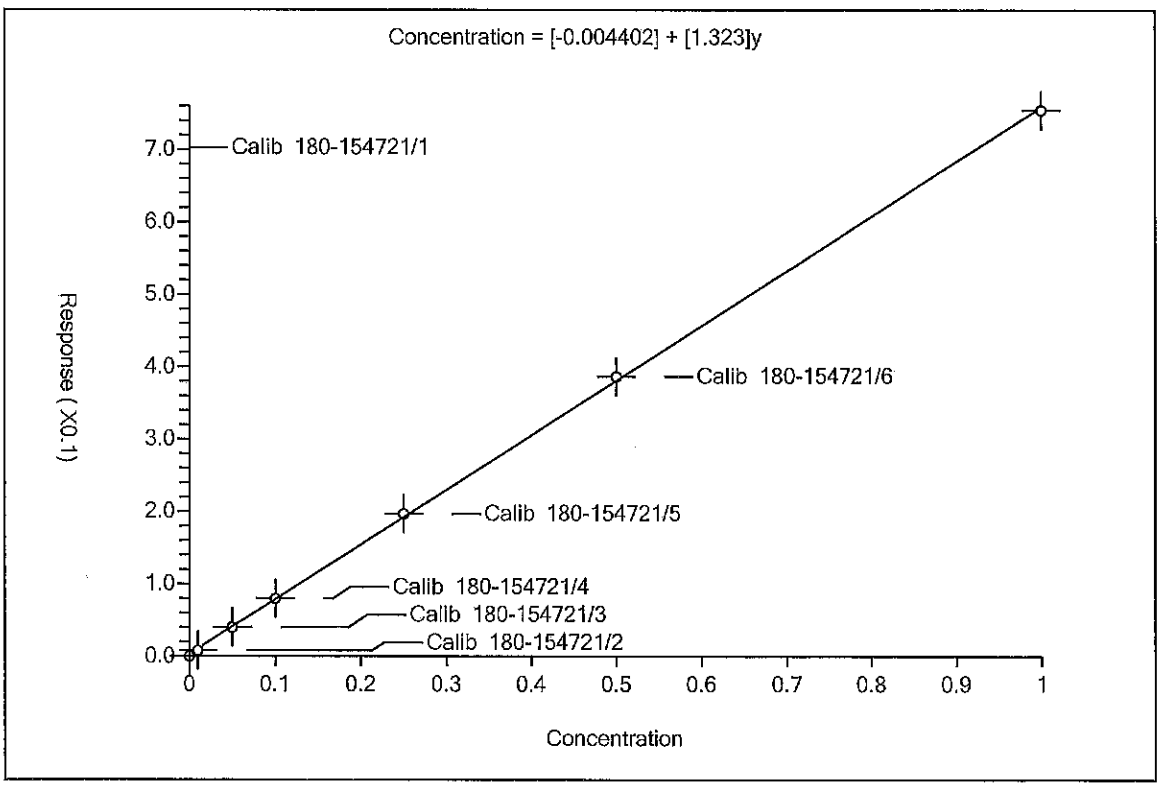
Calib 154721-07 Cr (VI)

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
RF Rounding:	0

Curve Coefficients	
Intercept:	-0.004402
Slope:	1.323

Error Coefficients	
Standard Error:	0.005752
Relative Standard Error:	NC
Correlation Coefficient:	0.9999
Coefficient of Determination (Adjusted):	0.9998 (0.9998)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	Calib 180-154721/1	0.0	0.0			NaN	Y
2	Calib 180-154721/2	0.01	0.008			0.800038	Y
3	Calib 180-154721/3	0.049998	0.04			0.800038	Y
4	Calib 180-154721/4	0.099995	0.08			0.800038	Y
5	Calib 180-154721/5	0.249988	0.197			0.788037	Y
6	Calib 180-154721/6	0.499976	0.387			0.774037	Y
7	Calib 180-154721/7	0.999953	0.755			0.755036	Y



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Batch Number: 154721 Batch Start Date: 09/24/15 08:40 Batch Analyst: Rumble, Jennifer L

Batch Method: 7196A Batch End Date: 09/24/15 09:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	CalcMsg	Initial pH
IC 180-154721/1		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.000 Absorbance	OK	>2.0 SU
IC 180-154721/2		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.008 Absorbance	OK	>2.0 SU
IC 180-154721/3		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.040 Absorbance	OK	>2.0 SU
IC 180-154721/4		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.080 Absorbance	OK	>2.0 SU
IC 180-154721/5		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.197 Absorbance	OK	>2.0 SU
IC 180-154721/6		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.387 Absorbance	OK	>2.0 SU
IC 180-154721/7		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.755 Absorbance	OK	>2.0 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	Final pH	WCr6P5i 00720				
IC 180-154721/1		7196A		<2.0 SU					
IC 180-154721/2		7196A		<2.0 SU	0.1 mL				
IC 180-154721/3		7196A		<2.0 SU	0.5 mL				
IC 180-154721/4		7196A		<2.0 SU	1 mL				
IC 180-154721/5		7196A		<2.0 SU	2.5 mL				
IC 180-154721/6		7196A		<2.0 SU	5 mL				
IC 180-154721/7		7196A		<2.0 SU	10 mL				

Batch Notes	
Spectrophotometer Cell Path Length	1 cm
Color Reagent ID Number	1711100
Pipette ID	G1888373U
Sulfuric Acid Reagent ID Number	1668790

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Batch Number: 154747 Batch Start Date: 09/24/15 10:40 Batch Analyst: Rumble, Jennifer L

Batch Method: 7196A Batch End Date: 09/24/15 11:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	CalcMsg	Initial pH
ICV 180-154747/1		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.194 Absorbance	OK	>2.0 SU
ICB 180-154747/2		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.000 Absorbance	OK	>2.0 SU
CCV 180-154747/3		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.203 Absorbance	OK	>2.0 SU
CCB 180-154747/4		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.000 Absorbance	OK	>2.0 SU
LCS 180-154747/5		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.202 Absorbance	OK	>2.0 SU
MB 180-154747/6		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.000 Absorbance	OK	>2.0 SU
180-48073-D-6	HD-MW-57-0/1-0	7196A	T	25.0 mL	25.0 mL	0.003 Absorbance	0.036 Absorbance	OK	>2.0 SU
180-48073-D-6 MS	HD-MW-57-0/1-0	7196A	T	25.0 mL	25.0 mL	0.003 Absorbance	0.218 Absorbance	OK	>2.0 SU
180-48073-D-6 MSD	HD-MW-57-0/1-0	7196A	T	25.0 mL	25.0 mL	0.003 Absorbance	0.221 Absorbance	OK	>2.0 SU
180-48073-E-6	HD-MW-57-0/1-0	7196A	D	25.0 mL	25.0 mL	0.000 Absorbance	0.032 Absorbance	OK	>2.0 SU
180-48073-E-6 MS	HD-MW-57-0/1-0	7196A	D	25.0 mL	25.0 mL	0.000 Absorbance	0.217 Absorbance	OK	>2.0 SU
180-48073-E-6 MSD	HD-MW-57-0/1-0	7196A	D	25.0 mL	25.0 mL	0.000 Absorbance	0.215 Absorbance	OK	>2.0 SU
CCV 180-154747/13		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.202 Absorbance	OK	>2.0 SU
CCB 180-154747/14		7196A		50.0 mL	50.0 mL	0.000 Absorbance	0.000 Absorbance	OK	>2.0 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	Final pH	WCr6P50i 00030	WCr6S50SP 00045	AnalysisComment		
ICV 180-154747/1		7196A		<2.0 SU	0.25 mL				
ICB 180-154747/2		7196A		<2.0 SU					
CCV 180-154747/3		7196A		<2.0 SU		0.25 mL			
CCB 180-154747/4		7196A		<2.0 SU					
LCS 180-154747/5		7196A		<2.0 SU		0.25 mL			
MB 180-154747/6		7196A		<2.0 SU					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Batch Number: 154747 Batch Start Date: 09/24/15 10:40 Batch Analyst: Rumble, Jennifer L

Batch Method: 7196A Batch End Date: 09/24/15 11:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	Final pH	WCr6P50i 00030	WCr6S50SP 00045	AnalysisComment		
180-48073-D-6	HD-MW-57-0/1-0	7196A	T	1.5 SU					
180-48073-D-6 MS	HD-MW-57-0/1-0	7196A	T	1.5 SU		0.125 mL			
180-48073-D-6 MSD	HD-MW-57-0/1-0	7196A	T	1.5 SU		0.125 mL			
180-48073-E-6	HD-MW-57-0/1-0	7196A	D	1.5 SU			field filtered and lab filtered (Filtration bt 154743 to generate 180-48073-e-6-a)		
180-48073-E-6 MS	HD-MW-57-0/1-0	7196A	D	1.5 SU		0.125 mL	field filtered and lab filtered (Filtration bt 154743 to generate 180-48073-e-6-a)		
180-48073-E-6 MSD	HD-MW-57-0/1-0	7196A	D	1.5 SU		0.125 mL	field filtered and lab filtered (Filtration bt 154743 to generate 180-48073-e-6-a)		
CCV 180-154747/13		7196A		<2.0 SU		0.25 mL			
CCB 180-154747/14		7196A		<2.0 SU					

Batch Notes	
Spectrophotometer Cell Path Length	1 cm
Color Reagent ID Number	1711100
Pipette ID	G1888373U
Sulfuric Acid Reagent ID Number	1668790

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48073-1

SDG No.:

Batch Number: 154747 Batch Start Date: 09/24/15 10:40 Batch Analyst: Rumble, Jennifer L

Batch Method: 7196A Batch End Date: 09/24/15 11:23

Basis	Basis Description
T	Total/NA
D	Dissolved

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: 9/23/2015	COC No: TAP2015092301
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-11-0/1-0	9/23/15	14:15	Groundwater	Water	3	X				
HD-MW-16S-0/1-0	9/23/15	12:15	Groundwater	Water	3	X				
HD-MW-16D-0/1-0	9/23/15	14:05	Groundwater	Water	3	X				
HD-MW-49S-0/1-0	9/23/15	9:41	Groundwater	Water	5	X			X	
HD-MW-94-0/1-0	9/23/15	12:16	Groundwater	Water	3	X				
HD-MW-57-0/1-0	9/23/15	14:17	Groundwater	Water	5	X	X	X		
HD-QC7-0/1-2	9/23/15	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	

180-48073 Chain of Custody

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: 9/23/15 1505	Received by:	Company: TAKOP	Date/Time: 9/23/15 1506
Relinquished by:	Company: TAKOP	Date/Time: 9/23/15 1610	Received by:	Company: TAP	Date/Time: 9-24-15 8:45
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

ORIGIN ID:KPDA (610) 337-9992
SAMPLE RECEIPT
TEST AMERICA
1008 WEST 9TH AVE
KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DATE: 23SEP15
ACTWGT: 45.00 LB
CAD: 8490258/INET3670

BILL RECIPIENT

TO SAMPLE RECEIPT
TEST AMERICA - PITTSBURGH
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058 REF:
INV: DEPT:
PO:

539J2/CB9/3108

FedEx Express

1 of 2

TRK# 0201 7745 8084 4117

THU - 24 SEP AA
STANDARD OVERNIGHT

HH MASTER HH

EV AGCA

15238
PA-US PIT

Uncorrected temp ~0 °C
Thermometer ID 7
CF 0 Initials DW
PT-WI-SR-001 effective 7/26/13

Part # 155297-435 RIT2 07/15

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-48073-1

Login Number: 48073
List Number: 1
Creator: Kovitch, Christina M

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	