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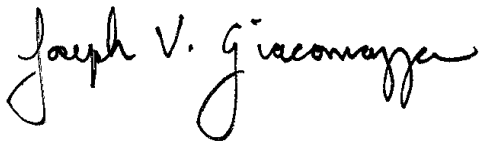
ANALYTICAL REPORT

Job Number: 480-127239-1

Job Description: Nash Rd. Wheatfield #932054

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, NY 14203

Attention: Mr. Glenn May



Approved for release.
Joe V Giacomazza
Project Management Assistant II
11/20/2017 5:10 PM

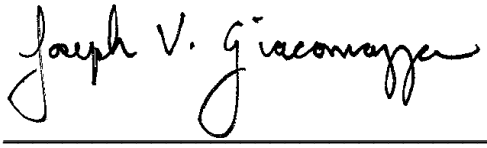
Designee for
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11/20/2017

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Job Number: 480-127239-1

Job Description: Nash Rd. Wheatfield #932054

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Approved for release.
Joe V Giacomazza
Project Management Assistant II
11/20/2017 5:10 PM

Designee for
Orlette S Johnson

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F4	MS/MSD RPD exceeds control limits due to sample size difference.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
480-127239-1

Comments
No additional comments.

Receipt
The samples were received on 11/7/2017 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. COC was completed by sampler on 11/8/17 leading to a day delay in completing the login from when samples were received (11/7)

GC/MS Semi VOA
Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: NS-DUP-SOIL 2-12" (480-127239-12). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The following samples was diluted due to color and, viscosity: NS-SBN-SOIL 2-12" (480-127239-11) and NS-DUP-SOIL 2-12" (480-127239-12). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 480-387056 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. The following samples are impacted: NS-NORTH-SOIL 0-2" (480-127239-1), NS-NORTH-SOIL 2-12" (480-127239-7) and NS-EAST-SOIL 2-12" (480-127239-8).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-387056 recovered above the upper control limit for Benzo[g,h,i]perylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: NS-EAST-SOIL 0-2" (480-127239-2), NS-WEST-SOIL 0-2" (480-127239-4), NS-SBN-SOIL 0-2" (480-127239-5), NS-DUP-SOIL 0-2" (480-127239-6) and NS-WEST-SOIL 2-12" (480-127239-10).

Method(s) 8270D: The following samples was diluted due to color and, viscosity: NS-NORTH-SOIL 0-2" (480-127239-1), NS-EAST-SOIL 0-2" (480-127239-2), NS-WEST-SOIL 0-2" (480-127239-4), NS-SBN-SOIL 0-2" (480-127239-5), NS-DUP-SOIL 0-2" (480-127239-6), NS-NORTH-SOIL 2-12" (480-127239-7), NS-EAST-SOIL 2-12" (480-127239-8) and NS-WEST-SOIL 2-12" (480-127239-10). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following samples required a dilution due to the nature of the sample matrix: NS-EAST-SOIL 0-2" (480-127239-2), NS-DUP-SOIL 0-2" (480-127239-6), NS-NORTH-SOIL 2-12" (480-127239-7), NS-EAST-SOIL 2-12" (480-127239-8) and NS-WEST-SOIL 2-12" (480-127239-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-387796 recovered above the upper control limit for 4-Nitrophenol, Diethyl phthalate, Bis(2-ethylhexyl) phthalate, Di-n-butyl phthalate, Butyl Benzyl phthalate and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: NS-SOUTH-SOIL 0-2" (480-127239-3) and NS-SOUTH-SOIL 2-12" (480-127239-9).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-387796 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane]. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: NS-SOUTH-SOIL 0-2" (480-127239-3) and NS-SOUTH-SOIL 2-12" (480-127239-9).

Method(s) 8270D: The following samples was diluted due to color and, viscosity: NS-SOUTH-SOIL 0-2" (480-127239-3), NS-SOUTH-SOIL 0-2" (480-127239-3[MS]), NS-SOUTH-SOIL 0-2" (480-127239-3[MSD]), NS-SOUTH-SOIL 2-12" (480-127239-9), NS-SOUTH-SOIL 2-12" (480-127239-9[MS]) and NS-SOUTH-SOIL 2-12" (480-127239-9[MSD]). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-387560 and analytical batch 480-387796 recovered outside control limits for the following analytes: Bis(2-ethylhexyl) phthalate and Butyl benzyl phthalate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: NS-SOUTH-SOIL 0-2" (480-127239-3) and NS-SOUTH-SOIL 2-12" (480-127239-9).

Method(s) 8270D: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: NS-SOUTH-SOIL 0-2" (480-127239-3[MS]), NS-SOUTH-SOIL 0-2" (480-127239-3[MSD]), NS-SOUTH-SOIL 2-12" (480-127239-9[MS]) and NS-SOUTH-SOIL 2-12" (480-127239-9[MSD]). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 480-387560 and

analytical batch 480-387796 were outside control limits. Sample matrix interference and sample dilutions are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The data has been qualified and reported.

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

GC Semi VOA
Method(s) 8082A: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-386487 and analytical batch 480-386747 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because all other QC sample spike recoveries and surrogate recoveries are within limits. The data has been qualified and reported.

Method(s) 8082A: The following samples are associated with a continuing calibration verification (CCV 480-386747/6) that had recoveries for the aroclor PCB-1262 that were below acceptance limits: NS-NORTH-SOIL 0-2" (480-127239-1), NS-EAST-SOIL 0-2" (480-127239-2), NS-SOUTH-SOIL 0-2" (480-127239-3), NS-WEST-SOIL 0-2" (480-127239-4), NS-SBN-SOIL 0-2" (480-127239-5), NS-DUP-SOIL 0-2" (480-127239-6), NS-NORTH-SOIL 2-12" (480-127239-7), NS-EAST-SOIL 2-12" (480-127239-8), NS-SOUTH-SOIL 2-12" (480-127239-9), NS-WEST-SOIL 2-12" (480-127239-10), NS-SBN-SOIL 2-12" (480-127239-11) and NS-DUP-SOIL 2-12" (480-127239-12). This aroclor was not detected via pattern recognition in any of these samples. Therefore, the data has been reported

Method(s) 8082A: All primary data for analytical batch 386747 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

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

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-127239-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-127239-1	NS-NORTH-SOIL 0-2"	Solid	11/07/17 13:10	11/07/17 16:00
480-127239-2	NS-EAST-SOIL 0-2"	Solid	11/07/17 13:50	11/07/17 16:00
480-127239-3	NS-SOUTH-SOIL 0-2"	Solid	11/07/17 14:30	11/07/17 16:00
480-127239-4	NS-WEST-SOIL 0-2"	Solid	11/07/17 14:50	11/07/17 16:00
480-127239-5	NS-SBN-SOIL 0-2"	Solid	11/07/17 15:20	11/07/17 16:00
480-127239-6	NS-DUP-SOIL 0-2"	Solid	11/07/17 00:00	11/07/17 16:00
480-127239-7	NS-NORTH-SOIL 2-12"	Solid	11/07/17 13:10	11/07/17 16:00
480-127239-8	NS-EAST-SOIL 2-12"	Solid	11/07/17 13:50	11/07/17 16:00
480-127239-9	NS-SOUTH-SOIL 2-12"	Solid	11/07/17 14:30	11/07/17 16:00
480-127239-10	NS-WEST-SOIL 2-12"	Solid	11/07/17 14:50	11/07/17 16:00
480-127239-11	NS-SBN-SOIL 2-12"	Solid	11/07/17 15:20	11/07/17 16:00
480-127239-12	NS-DUP-SOIL 2-12"	Solid	11/07/17 00:00	11/07/17 16:00

Detection Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-127239-1

Client Sample ID: NS-NORTH-SOIL 0-2" — Lab Sample ID: 480-127239-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	610	J	2200	330	ug/Kg	10	☼	8270D	Total/NA
Anthracene	1700	J	2200	550	ug/Kg	10	☼	8270D	Total/NA
Benzo(a)anthracene	5500		2200	220	ug/Kg	10	☼	8270D	Total/NA
Benzo(a)pyrene	4800		2200	330	ug/Kg	10	☼	8270D	Total/NA
Benzo(b)fluoranthene	6000		2200	350	ug/Kg	10	☼	8270D	Total/NA
Benzo(g,h,i)perylene	3700		2200	240	ug/Kg	10	☼	8270D	Total/NA
Benzo(k)fluoranthene	2900		2200	290	ug/Kg	10	☼	8270D	Total/NA
Carbazole	610	J	2200	260	ug/Kg	10	☼	8270D	Total/NA
Chrysene	5500		2200	500	ug/Kg	10	☼	8270D	Total/NA
Di-n-butyl phthalate	800	J	2200	380	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	880	J	2200	390	ug/Kg	10	☼	8270D	Total/NA
Dibenzofuran	340	J	2200	260	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	11000		2200	240	ug/Kg	10	☼	8270D	Total/NA
Fluorene	630	J	2200	260	ug/Kg	10	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	2900		2200	270	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	7300		2200	330	ug/Kg	10	☼	8270D	Total/NA
Pyrene	10000		2200	260	ug/Kg	10	☼	8270D	Total/NA
PCB-1260	1.7		0.28	0.13	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-EAST-SOIL 0-2" — Lab Sample ID: 480-127239-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	660	J	5000	650	ug/Kg	20	☼	8270D	Total/NA
Anthracene	1700	J	5000	1200	ug/Kg	20	☼	8270D	Total/NA
Benzo(a)anthracene	4400	J	5000	500	ug/Kg	20	☼	8270D	Total/NA
Benzo(a)pyrene	3700	J	5000	730	ug/Kg	20	☼	8270D	Total/NA
Benzo(b)fluoranthene	4900	J	5000	790	ug/Kg	20	☼	8270D	Total/NA
Benzo(g,h,i)perylene	2800	J	5000	530	ug/Kg	20	☼	8270D	Total/NA
Benzo(k)fluoranthene	2400	J	5000	650	ug/Kg	20	☼	8270D	Total/NA
Carbazole	930	J	5000	590	ug/Kg	20	☼	8270D	Total/NA
Chrysene	4100	J	5000	1100	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	890	J	5000	590	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	9400		5000	530	ug/Kg	20	☼	8270D	Total/NA
Fluorene	1500	J	5000	590	ug/Kg	20	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	2500	J	5000	620	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	1100	J	5000	650	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	8500		5000	730	ug/Kg	20	☼	8270D	Total/NA
Pyrene	7800		5000	590	ug/Kg	20	☼	8270D	Total/NA
PCB-1254	0.78		0.32	0.15	mg/Kg	1	☼	8082A	Total/NA
PCB-1260	0.64		0.32	0.15	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-SOUTH-SOIL 0-2" — Lab Sample ID: 480-127239-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	730	J	2200	290	ug/Kg	10	☼	8270D	Total/NA
Anthracene	1400	J F2 F1	2200	560	ug/Kg	10	☼	8270D	Total/NA
Benzo(a)anthracene	3600	F2 F1	2200	220	ug/Kg	10	☼	8270D	Total/NA
Benzo(a)pyrene	3200	F2 F1	2200	330	ug/Kg	10	☼	8270D	Total/NA
Benzo(b)fluoranthene	4700	F2 F1	2200	360	ug/Kg	10	☼	8270D	Total/NA
Benzo(g,h,i)perylene	2300	F2 F1	2200	240	ug/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NS-SOUTH-SOIL 0-2" (Continued) — Lab Sample ID: 480-127239-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(k)fluoranthene	2500	F1	2200	290	ug/Kg	10	☼	8270D	Total/NA
Carbazole	860	J	2200	260	ug/Kg	10	☼	8270D	Total/NA
Chrysene	4000	F2 F1	2200	500	ug/Kg	10	☼	8270D	Total/NA
Dibenzofuran	540	J	2200	260	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	7800	F2 F1	2200	240	ug/Kg	10	☼	8270D	Total/NA
Fluorene	760	J	2200	260	ug/Kg	10	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	2200	F2 F1	2200	280	ug/Kg	10	☼	8270D	Total/NA
Naphthalene	770	J	2200	290	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	5400	F2 F1	2200	330	ug/Kg	10	☼	8270D	Total/NA
Pyrene	6500	F1	2200	260	ug/Kg	10	☼	8270D	Total/NA
PCB-1260	0.60		0.27	0.13	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-WEST-SOIL 0-2" — Lab Sample ID: 480-127239-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)anthracene	1200	J	2200	220	ug/Kg	10	☼	8270D	Total/NA
Benzo(a)pyrene	1200	J	2200	320	ug/Kg	10	☼	8270D	Total/NA
Benzo(b)fluoranthene	1700	J	2200	350	ug/Kg	10	☼	8270D	Total/NA
Benzo(g,h,i)perylene	1000	J	2200	230	ug/Kg	10	☼	8270D	Total/NA
Benzo(k)fluoranthene	540	J	2200	280	ug/Kg	10	☼	8270D	Total/NA
Chrysene	1300	J	2200	490	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	2400		2200	230	ug/Kg	10	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	830	J	2200	270	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	1500	J	2200	320	ug/Kg	10	☼	8270D	Total/NA
Pyrene	2100	J	2200	260	ug/Kg	10	☼	8270D	Total/NA
PCB-1254	4.7		0.30	0.14	mg/Kg	1	☼	8082A	Total/NA
PCB-1260	3.5		0.30	0.14	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-SBN-SOIL 0-2" — Lab Sample ID: 480-127239-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	570	J	2000	500	ug/Kg	10	☼	8270D	Total/NA
Benzo(a)anthracene	1600	J	2000	200	ug/Kg	10	☼	8270D	Total/NA
Benzo(a)pyrene	1600	J	2000	300	ug/Kg	10	☼	8270D	Total/NA
Benzo(b)fluoranthene	1900	J	2000	320	ug/Kg	10	☼	8270D	Total/NA
Benzo(g,h,i)perylene	1300	J	2000	210	ug/Kg	10	☼	8270D	Total/NA
Benzo(k)fluoranthene	910	J	2000	260	ug/Kg	10	☼	8270D	Total/NA
Carbazole	310	J	2000	240	ug/Kg	10	☼	8270D	Total/NA
Chrysene	1700	J	2000	450	ug/Kg	10	☼	8270D	Total/NA
Di-n-butyl phthalate	2200		2000	340	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	3200		2000	210	ug/Kg	10	☼	8270D	Total/NA
Fluorene	240	J	2000	240	ug/Kg	10	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	1000	J	2000	250	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	2400		2000	300	ug/Kg	10	☼	8270D	Total/NA
Pyrene	3000		2000	240	ug/Kg	10	☼	8270D	Total/NA
PCB-1260	4.2		0.23	0.11	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-DUP-SOIL 0-2" — Lab Sample ID: 480-127239-6

This Detection Summary does not include radiochemical test results.

Client Sample ID: NS-DUP-SOIL 0-2" (Continued) — Lab Sample ID: 480-127239-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)anthracene	640	J	4500	450	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	1200	J	4500	480	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	800	J	4500	660	ug/Kg	20	☼	8270D	Total/NA
Pyrene	980	J	4500	530	ug/Kg	20	☼	8270D	Total/NA
PCB-1260	1.2		0.30	0.14	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-NORTH-SOIL 2-12" — Lab Sample ID: 480-127239-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	6400		4600	680	ug/Kg	20	☼	8270D	Total/NA
Anthracene	9600		4600	1100	ug/Kg	20	☼	8270D	Total/NA
Benzo(a)anthracene	19000		4600	460	ug/Kg	20	☼	8270D	Total/NA
Benzo(a)pyrene	17000		4600	680	ug/Kg	20	☼	8270D	Total/NA
Benzo(b)fluoranthene	19000		4600	740	ug/Kg	20	☼	8270D	Total/NA
Benzo(g,h,i)perylene	15000		4600	490	ug/Kg	20	☼	8270D	Total/NA
Benzo(k)fluoranthene	10000		4600	600	ug/Kg	20	☼	8270D	Total/NA
Carbazole	5200		4600	550	ug/Kg	20	☼	8270D	Total/NA
Chrysene	18000		4600	1000	ug/Kg	20	☼	8270D	Total/NA
Di-n-butyl phthalate	890	J	4600	790	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	2900	J	4600	550	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	47000		4600	490	ug/Kg	20	☼	8270D	Total/NA
Fluorene	4700		4600	550	ug/Kg	20	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	12000		4600	570	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	1700	J	4600	600	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	43000		4600	680	ug/Kg	20	☼	8270D	Total/NA
Pyrene	41000		4600	550	ug/Kg	20	☼	8270D	Total/NA
PCB-1254	2.7		0.33	0.15	mg/Kg	1	☼	8082A	Total/NA
PCB-1260	2.7		0.33	0.15	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-EAST-SOIL 2-12" — Lab Sample ID: 480-127239-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	940	J	4400	650	ug/Kg	20	☼	8270D	Total/NA
Acenaphthylene	2500	J	4400	570	ug/Kg	20	☼	8270D	Total/NA
Anthracene	4300	J	4400	1100	ug/Kg	20	☼	8270D	Total/NA
Benzo(a)anthracene	12000		4400	440	ug/Kg	20	☼	8270D	Total/NA
Benzo(a)pyrene	10000		4400	650	ug/Kg	20	☼	8270D	Total/NA
Benzo(b)fluoranthene	13000		4400	700	ug/Kg	20	☼	8270D	Total/NA
Benzo(g,h,i)perylene	7600		4400	470	ug/Kg	20	☼	8270D	Total/NA
Benzo(k)fluoranthene	7100		4400	570	ug/Kg	20	☼	8270D	Total/NA
Carbazole	2900	J	4400	520	ug/Kg	20	☼	8270D	Total/NA
Chrysene	12000		4400	990	ug/Kg	20	☼	8270D	Total/NA
Dibenz(a,h)anthracene	2500	J	4400	780	ug/Kg	20	☼	8270D	Total/NA
Dibenzofuran	1700	J	4400	520	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	26000		4400	470	ug/Kg	20	☼	8270D	Total/NA
Fluorene	2700	J	4400	520	ug/Kg	20	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	7000		4400	550	ug/Kg	20	☼	8270D	Total/NA
Naphthalene	1200	J	4400	570	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	20000		4400	650	ug/Kg	20	☼	8270D	Total/NA
Pyrene	20000		4400	520	ug/Kg	20	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NS-EAST-SOIL 2-12" (Continued) — Lab Sample ID: 480-127239-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.72		0.31	0.15	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-SOUTH-SOIL 2-12" — Lab Sample ID: 480-127239-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.20	J	0.29	0.13	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-WEST-SOIL 2-12" — Lab Sample ID: 480-127239-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)anthracene	2300	J	4000	400	ug/Kg	20	☼	8270D	Total/NA
Benzo(a)pyrene	2400	J	4000	580	ug/Kg	20	☼	8270D	Total/NA
Benzo(b)fluoranthene	3200	J	4000	630	ug/Kg	20	☼	8270D	Total/NA
Benzo(g,h,i)perylene	2000	J	4000	420	ug/Kg	20	☼	8270D	Total/NA
Benzo(k)fluoranthene	1000	J	4000	510	ug/Kg	20	☼	8270D	Total/NA
Chrysene	2400	J	4000	890	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	4500		4000	420	ug/Kg	20	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	1700	J	4000	490	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	3500	J	4000	580	ug/Kg	20	☼	8270D	Total/NA
Pyrene	4100		4000	470	ug/Kg	20	☼	8270D	Total/NA
PCB-1260	0.91		0.24	0.11	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-SBN-SOIL 2-12" — Lab Sample ID: 480-127239-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)anthracene	310	J	970	97	ug/Kg	5	☼	8270D	Total/NA
Benzo(a)pyrene	270	J	970	140	ug/Kg	5	☼	8270D	Total/NA
Benzo(b)fluoranthene	290	J	970	150	ug/Kg	5	☼	8270D	Total/NA
Benzo(g,h,i)perylene	200	J	970	100	ug/Kg	5	☼	8270D	Total/NA
Benzo(k)fluoranthene	190	J	970	130	ug/Kg	5	☼	8270D	Total/NA
Chrysene	310	J	970	220	ug/Kg	5	☼	8270D	Total/NA
Di-n-butyl phthalate	1100		970	170	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	590	J	970	100	ug/Kg	5	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	170	J	970	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	500	J	970	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	550	J	970	110	ug/Kg	5	☼	8270D	Total/NA
PCB-1260	5.7		0.20	0.095	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: NS-DUP-SOIL 2-12" — Lab Sample ID: 480-127239-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	730	J	3900	580	ug/Kg	20	☼	8270D	Total/NA
Anthracene	1600	J	3900	970	ug/Kg	20	☼	8270D	Total/NA
Benzo(a)anthracene	4200		3900	390	ug/Kg	20	☼	8270D	Total/NA
Benzo(a)pyrene	3700	J	3900	580	ug/Kg	20	☼	8270D	Total/NA
Benzo(b)fluoranthene	4400		3900	630	ug/Kg	20	☼	8270D	Total/NA
Benzo(g,h,i)perylene	2500	J	3900	420	ug/Kg	20	☼	8270D	Total/NA
Benzo(k)fluoranthene	2300	J	3900	510	ug/Kg	20	☼	8270D	Total/NA
Carbazole	860	J	3900	460	ug/Kg	20	☼	8270D	Total/NA
Chrysene	4400		3900	880	ug/Kg	20	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NS-DUP-SOIL 2-12" (Continued)

Lab Sample ID: 480-127239-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	700	J	3900	700	ug/Kg	20	☼	8270D	Total/NA
Fluoranthene	9000		3900	420	ug/Kg	20	☼	8270D	Total/NA
Fluorene	630	J	3900	460	ug/Kg	20	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	2300	J	3900	490	ug/Kg	20	☼	8270D	Total/NA
Phenanthrene	7500		3900	580	ug/Kg	20	☼	8270D	Total/NA
Pyrene	8100		3900	460	ug/Kg	20	☼	8270D	Total/NA
PCB-1260	0.93		0.21	0.097	mg/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NS-NORTH-SOIL 0-2"

Date Collected: 11/07/17 13:10
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-1

Matrix: Solid
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2200	330	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
bis (2-chloroisopropyl) ether	ND		2200	440	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2,4,5-Trichlorophenol	ND		2200	600	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2,4,6-Trichlorophenol	ND		2200	440	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2,4-Dichlorophenol	ND		2200	240	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2,4-Dimethylphenol	ND		2200	540	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2,4-Dinitrophenol	ND		22000	10000	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2,4-Dinitrotoluene	ND		2200	460	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2,6-Dinitrotoluene	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2-Chloronaphthalene	ND		2200	370	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2-Chlorophenol	ND		2200	410	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2-Methylnaphthalene	ND		2200	440	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2-Methylphenol	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2-Nitroaniline	ND		4300	330	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
2-Nitrophenol	ND		2200	630	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
3,3'-Dichlorobenzidine	ND		4300	2600	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
3-Nitroaniline	ND		4300	610	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
4,6-Dinitro-2-methylphenol	ND		4300	2200	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
4-Bromophenyl phenyl ether	ND		2200	310	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
4-Chloro-3-methylphenol	ND		2200	550	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
4-Chloroaniline	ND		2200	550	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
4-Chlorophenyl phenyl ether	ND		2200	270	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
4-Methylphenol	ND		4300	260	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
4-Nitroaniline	ND		4300	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
4-Nitrophenol	ND		4300	1600	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Acenaphthene	**610**	**J**	2200	330	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Acenaphthylene	ND		2200	290	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Acetophenone	ND		2200	300	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Anthracene	**1700**	**J**	2200	550	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Atrazine	ND		2200	770	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Benzaldehyde	ND		2200	1800	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Benzo(a)anthracene	**5500**		2200	220	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Benzo(a)pyrene	**4800**		2200	330	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Benzo(b)fluoranthene	**6000**		2200	350	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Benzo(g,h,i)perylene	**3700**		2200	240	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Benzo(k)fluoranthene	**2900**		2200	290	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Bis(2-chloroethoxy)methane	ND		2200	470	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Bis(2-chloroethyl)ether	ND		2200	290	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Bis(2-ethylhexyl) phthalate	ND		2200	760	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Butyl benzyl phthalate	ND		2200	370	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Caprolactam	ND		2200	670	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Carbazole	**610**	**J**	2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Chrysene	**5500**		2200	500	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Di-n-butyl phthalate	**800**	**J**	2200	380	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Di-n-octyl phthalate	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Dibenz(a,h)anthracene	**880**	**J**	2200	390	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Dibenzofuran	**340**	**J**	2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Diethyl phthalate	ND		2200	290	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Dimethyl phthalate	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10

Client Sample ID: NS-NORTH-SOIL 0-2"

Date Collected: 11/07/17 13:10
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-1

Matrix: Solid
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**11000**		2200	240	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Fluorene	**630**	**J**	2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Hexachlorobenzene	ND		2200	300	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Hexachlorobutadiene	ND		2200	330	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Hexachlorocyclopentadiene	ND		2200	300	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Hexachloroethane	ND		2200	290	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Indeno(1,2,3-cd)pyrene	**2900**		2200	270	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Isophorone	ND		2200	470	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
N-Nitrosodi-n-propylamine	ND		2200	380	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
N-Nitrosodiphenylamine	ND		2200	1800	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Naphthalene	ND		2200	290	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Nitrobenzene	ND		2200	250	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Pentachlorophenol	ND		4300	2200	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Phenanthrene	**7300**		2200	330	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Phenol	ND		2200	340	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10
Pyrene	**10000**		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 16:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*54 - 120*	*11/09/17 07:09*	*11/13/17 16:36*	*10*
2-Fluorobiphenyl	*85*		*60 - 120*	*11/09/17 07:09*	*11/13/17 16:36*	*10*
2-Fluorophenol	*66*		*52 - 120*	*11/09/17 07:09*	*11/13/17 16:36*	*10*
Nitrobenzene-d5	*63*		*53 - 120*	*11/09/17 07:09*	*11/13/17 16:36*	*10*
p-Terphenyl-d14	*98*		*65 - 121*	*11/09/17 07:09*	*11/13/17 16:36*	*10*
Phenol-d5	*67*		*54 - 120*	*11/09/17 07:09*	*11/13/17 16:36*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	11/09/17 10:52	11/10/17 15:06	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	11/09/17 10:52	11/10/17 15:06	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	11/09/17 10:52	11/10/17 15:06	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	11/09/17 10:52	11/10/17 15:06	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	11/09/17 10:52	11/10/17 15:06	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 15:06	1
PCB-1260	**1.7**		0.28	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 15:06	1
PCB-1262	ND		0.28	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 15:06	1
PCB-1268	ND		0.28	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*60 - 154*	*11/09/17 10:52*	*11/10/17 15:06*	*1*
Tetrachloro-m-xylene	*106*		*60 - 154*	*11/09/17 10:52*	*11/10/17 15:06*	*1*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*11/09/17 10:52*	*11/10/17 15:06*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*11/09/17 10:52*	*11/10/17 15:06*	*1*

Client Sample ID: NS-EAST-SOIL 0-2"

Date Collected: 11/07/17 13:50
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-2

Matrix: Solid
Percent Solids: 66.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5000	730	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20

Client Sample ID: NS-EAST-SOIL 0-2"
Date Collected: 11/07/17 13:50
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-2
Matrix: Solid
Percent Solids: 66.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5000	1000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2,4,5-Trichlorophenol	ND		5000	1400	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2,4,6-Trichlorophenol	ND		5000	1000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2,4-Dichlorophenol	ND		5000	530	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2,4-Dimethylphenol	ND		5000	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2,4-Dinitrophenol	ND		49000	23000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2,4-Dinitrotoluene	ND		5000	1000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2,6-Dinitrotoluene	ND		5000	590	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2-Chloronaphthalene	ND		5000	820	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2-Chlorophenol	ND		5000	910	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2-Methylnaphthalene	ND		5000	1000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2-Methylphenol	ND		5000	590	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2-Nitroaniline	ND		9700	730	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
2-Nitrophenol	ND		5000	1400	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
3,3'-Dichlorobenzidine	ND		9700	5900	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
3-Nitroaniline	ND		9700	1400	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
4,6-Dinitro-2-methylphenol	ND		9700	5000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
4-Bromophenyl phenyl ether	ND		5000	700	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
4-Chloro-3-methylphenol	ND		5000	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
4-Chloroaniline	ND		5000	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
4-Chlorophenyl phenyl ether	ND		5000	620	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
4-Methylphenol	ND		9700	590	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
4-Nitroaniline	ND		9700	2600	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
4-Nitrophenol	ND		9700	3500	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Acenaphthene	ND		5000	730	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Acenaphthylene	**660**	**J**	5000	650	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Acetophenone	ND		5000	680	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Anthracene	**1700**	**J**	5000	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Atrazine	ND		5000	1700	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Benzaldehyde	ND		5000	4000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Benzo(a)anthracene	**4400**	**J**	5000	500	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Benzo(a)pyrene	**3700**	**J**	5000	730	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Benzo(b)fluoranthene	**4900**	**J**	5000	790	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Benzo(g,h,i)perylene	**2800**	**J**	5000	530	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Benzo(k)fluoranthene	**2400**	**J**	5000	650	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Bis(2-chloroethoxy)methane	ND		5000	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Bis(2-chloroethyl)ether	ND		5000	650	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Bis(2-ethylhexyl) phthalate	ND		5000	1700	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Butyl benzyl phthalate	ND		5000	820	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Caprolactam	ND		5000	1500	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Carbazole	**930**	**J**	5000	590	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Chrysene	**4100**	**J**	5000	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Di-n-butyl phthalate	ND		5000	850	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Di-n-octyl phthalate	ND		5000	590	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Dibenz(a,h)anthracene	ND		5000	880	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Dibenzofuran	**890**	**J**	5000	590	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Diethyl phthalate	ND		5000	650	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Dimethyl phthalate	ND		5000	590	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Fluoranthene	**9400**		5000	530	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20

Client Sample ID: NS-EAST-SOIL 0-2"

Lab Sample ID: 480-127239-2
Date Collected: 11/07/17 13:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 66.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**1500**	**J**	5000	590	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Hexachlorobenzene	ND		5000	680	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Hexachlorobutadiene	ND		5000	730	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Hexachlorocyclopentadiene	ND		5000	680	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Hexachloroethane	ND		5000	650	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Indeno(1,2,3-cd)pyrene	**2500**	**J**	5000	620	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Isophorone	ND		5000	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
N-Nitrosodi-n-propylamine	ND		5000	850	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
N-Nitrosodiphenylamine	ND		5000	4100	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Naphthalene	**1100**	**J**	5000	650	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Nitrobenzene	ND		5000	560	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Pentachlorophenol	ND		9700	5000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Phenanthrene	**8500**		5000	730	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Phenol	ND		5000	760	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20
Pyrene	**7800**		5000	590	ug/Kg	☼	11/09/17 07:09	11/13/17 17:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*11/09/17 07:09*	*11/13/17 17:03*	*20*
2-Fluorobiphenyl	*56*	*X*	*60 - 120*	*11/09/17 07:09*	*11/13/17 17:03*	*20*
2-Fluorophenol	*37*	*X*	*52 - 120*	*11/09/17 07:09*	*11/13/17 17:03*	*20*
Nitrobenzene-d5	*47*	*X*	*53 - 120*	*11/09/17 07:09*	*11/13/17 17:03*	*20*
p-Terphenyl-d14	*63*	*X*	*65 - 121*	*11/09/17 07:09*	*11/13/17 17:03*	*20*
Phenol-d5	*41*	*X*	*54 - 120*	*11/09/17 07:09*	*11/13/17 17:03*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.32	0.063	mg/Kg	☼	11/09/17 10:52	11/10/17 15:22	1
PCB-1221	ND		0.32	0.063	mg/Kg	☼	11/09/17 10:52	11/10/17 15:22	1
PCB-1232	ND		0.32	0.063	mg/Kg	☼	11/09/17 10:52	11/10/17 15:22	1
PCB-1242	ND		0.32	0.063	mg/Kg	☼	11/09/17 10:52	11/10/17 15:22	1
PCB-1248	ND		0.32	0.063	mg/Kg	☼	11/09/17 10:52	11/10/17 15:22	1
PCB-1254	**0.78**		0.32	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 15:22	1
PCB-1260	**0.64**		0.32	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 15:22	1
PCB-1262	ND		0.32	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 15:22	1
PCB-1268	ND		0.32	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*60 - 154*	*11/09/17 10:52*	*11/10/17 15:22*	*1*
Tetrachloro-m-xylene	*84*		*60 - 154*	*11/09/17 10:52*	*11/10/17 15:22*	*1*
DCB Decachlorobiphenyl	*89*		*65 - 174*	*11/09/17 10:52*	*11/10/17 15:22*	*1*
DCB Decachlorobiphenyl	*99*		*65 - 174*	*11/09/17 10:52*	*11/10/17 15:22*	*1*

Client Sample ID: NS-SOUTH-SOIL 0-2"

Lab Sample ID: 480-127239-3
Date Collected: 11/07/17 14:30
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2200	330	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
bis (2-chloroisopropyl) ether	ND	F1	2200	450	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10

Client Sample ID: NS-SOUTH-SOIL 0-2"
Date Collected: 11/07/17 14:30
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-3
Matrix: Solid
Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		2200	610	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2,4,6-Trichlorophenol	ND		2200	450	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2,4-Dichlorophenol	ND		2200	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2,4-Dimethylphenol	ND		2200	540	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2,4-Dinitrophenol	ND		22000	10000	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2,4-Dinitrotoluene	ND		2200	460	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2,6-Dinitrotoluene	ND		2200	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2-Chloronaphthalene	ND		2200	370	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2-Chlorophenol	ND		2200	410	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2-Methylnaphthalene	ND		2200	450	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2-Methylphenol	ND		2200	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2-Nitroaniline	ND		4400	330	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
2-Nitrophenol	ND		2200	630	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
3,3'-Dichlorobenzidine	ND		4400	2600	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
3-Nitroaniline	ND		4400	620	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
4,6-Dinitro-2-methylphenol	ND		4400	2200	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
4-Bromophenyl phenyl ether	ND		2200	320	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
4-Chloro-3-methylphenol	ND		2200	560	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
4-Chloroaniline	ND	F2	2200	560	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
4-Chlorophenyl phenyl ether	ND		2200	280	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
4-Methylphenol	ND		4400	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
4-Nitroaniline	ND		4400	1200	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
4-Nitrophenol	ND	F1	4400	1600	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Acenaphthene	ND		2200	330	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Acenaphthylene	**730**	**J**	2200	290	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Acetophenone	ND		2200	300	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Anthracene	**1400**	**J F2 F1**	2200	560	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Atrazine	ND		2200	780	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Benzaldehyde	ND		2200	1800	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Benzo(a)anthracene	**3600**	**F2 F1**	2200	220	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Benzo(a)pyrene	**3200**	**F2 F1**	2200	330	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Benzo(b)fluoranthene	**4700**	**F2 F1**	2200	360	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Benzo(g,h,i)perylene	**2300**	**F2 F1**	2200	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Benzo(k)fluoranthene	**2500**	**F1**	2200	290	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Bis(2-chloroethoxy)methane	ND		2200	480	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Bis(2-chloroethyl)ether	ND		2200	290	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Bis(2-ethylhexyl) phthalate	ND	F1 *	2200	770	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Butyl benzyl phthalate	ND	F1 *	2200	370	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Caprolactam	ND		2200	670	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Carbazole	**860**	**J**	2200	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Chrysene	**4000**	**F2 F1**	2200	500	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Di-n-butyl phthalate	ND		2200	380	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Di-n-octyl phthalate	ND		2200	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Dibenz(a,h)anthracene	ND	F2 F1	2200	400	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Dibenzofuran	**540**	**J**	2200	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Diethyl phthalate	ND	F1	2200	290	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Dimethyl phthalate	ND		2200	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Fluoranthene	**7800**	**F2 F1**	2200	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Fluorene	**760**	**J**	2200	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10

Client Sample ID: NS-SOUTH-SOIL 0-2"

Date Collected: 11/07/17 14:30
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-3

Matrix: Solid
Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		2200	300	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Hexachlorobutadiene	ND		2200	330	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Hexachlorocyclopentadiene	ND		2200	300	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Hexachloroethane	ND		2200	290	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Indeno(1,2,3-cd)pyrene	**2200**	**F2 F1**	2200	280	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Isophorone	ND		2200	480	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
N-Nitrosodi-n-propylamine	ND		2200	380	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
N-Nitrosodiphenylamine	ND		2200	1800	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Naphthalene	**770**	**J**	2200	290	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Nitrobenzene	ND		2200	250	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Pentachlorophenol	ND		4400	2200	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Phenanthrene	**5400**	**F2 F1**	2200	330	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Phenol	ND		2200	340	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10
Pyrene	**6500**	**F1**	2200	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*111*		*54 - 120*	*11/15/17 14:07*	*11/16/17 18:12*	*10*
2-Fluorobiphenyl	*91*		*60 - 120*	*11/15/17 14:07*	*11/16/17 18:12*	*10*
2-Fluorophenol	*74*		*52 - 120*	*11/15/17 14:07*	*11/16/17 18:12*	*10*
Nitrobenzene-d5	*93*		*53 - 120*	*11/15/17 14:07*	*11/16/17 18:12*	*10*
p-Terphenyl-d14	*75*		*65 - 121*	*11/15/17 14:07*	*11/16/17 18:12*	*10*
Phenol-d5	*67*		*54 - 120*	*11/15/17 14:07*	*11/16/17 18:12*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	11/09/17 10:52	11/10/17 14:34	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	11/09/17 10:52	11/10/17 14:34	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	11/09/17 10:52	11/10/17 14:34	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	11/09/17 10:52	11/10/17 14:34	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	11/09/17 10:52	11/10/17 14:34	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 14:34	1
PCB-1260	**0.60**		0.27	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 14:34	1
PCB-1262	ND		0.27	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 14:34	1
PCB-1268	ND		0.27	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*60 - 154*	*11/09/17 10:52*	*11/10/17 14:34*	*1*
Tetrachloro-m-xylene	*80*		*60 - 154*	*11/09/17 10:52*	*11/10/17 14:34*	*1*
DCB Decachlorobiphenyl	*76*		*65 - 174*	*11/09/17 10:52*	*11/10/17 14:34*	*1*
DCB Decachlorobiphenyl	*90*		*65 - 174*	*11/09/17 10:52*	*11/10/17 14:34*	*1*

Client Sample ID: NS-WEST-SOIL 0-2"

Date Collected: 11/07/17 14:50
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-4

Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2200	320	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
bis (2-chloroisopropyl) ether	ND		2200	430	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2,4,5-Trichlorophenol	ND		2200	590	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10

Client Sample ID: NS-WEST-SOIL 0-2"
Date Collected: 11/07/17 14:50
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-4
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		2200	430	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2,4-Dichlorophenol	ND		2200	230	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2,4-Dimethylphenol	ND		2200	520	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2,4-Dinitrophenol	ND		21000	10000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2,4-Dinitrotoluene	ND		2200	450	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2,6-Dinitrotoluene	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2-Chloronaphthalene	ND		2200	360	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2-Chlorophenol	ND		2200	400	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2-Methylnaphthalene	ND		2200	430	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2-Methylphenol	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2-Nitroaniline	ND		4200	320	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
2-Nitrophenol	ND		2200	610	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
3,3'-Dichlorobenzidine	ND		4200	2600	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
3-Nitroaniline	ND		4200	600	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
4,6-Dinitro-2-methylphenol	ND		4200	2200	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
4-Bromophenyl phenyl ether	ND		2200	310	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
4-Chloro-3-methylphenol	ND		2200	540	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
4-Chloroaniline	ND		2200	540	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
4-Chlorophenyl phenyl ether	ND		2200	270	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
4-Methylphenol	ND		4200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
4-Nitroaniline	ND		4200	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
4-Nitrophenol	ND		4200	1500	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Acenaphthene	ND		2200	320	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Acenaphthylene	ND		2200	280	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Acetophenone	ND		2200	290	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Anthracene	ND		2200	540	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Atrazine	ND		2200	750	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Benzaldehyde	ND		2200	1700	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Benzo(a)anthracene	**1200**	**J**	2200	220	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Benzo(a)pyrene	**1200**	**J**	2200	320	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Benzo(b)fluoranthene	**1700**	**J**	2200	350	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Benzo(g,h,i)perylene	**1000**	**J**	2200	230	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Benzo(k)fluoranthene	**540**	**J**	2200	280	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Bis(2-chloroethoxy)methane	ND		2200	460	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Bis(2-chloroethyl)ether	ND		2200	280	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Bis(2-ethylhexyl) phthalate	ND		2200	740	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Butyl benzyl phthalate	ND		2200	360	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Caprolactam	ND		2200	650	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Carbazole	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Chrysene	**1300**	**J**	2200	490	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Di-n-butyl phthalate	ND		2200	370	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Di-n-octyl phthalate	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Dibenz(a,h)anthracene	ND		2200	380	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Dibenzofuran	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Diethyl phthalate	ND		2200	280	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Dimethyl phthalate	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Fluoranthene	**2400**		2200	230	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Fluorene	ND		2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Hexachlorobenzene	ND		2200	290	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10

Client Sample ID: NS-WEST-SOIL 0-2"

Lab Sample ID: 480-127239-4
Date Collected: 11/07/17 14:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2200	320	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Hexachlorocyclopentadiene	ND		2200	290	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Hexachloroethane	ND		2200	280	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Indeno(1,2,3-cd)pyrene	**830**	**J**	2200	270	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Isophorone	ND		2200	460	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
N-Nitrosodi-n-propylamine	ND		2200	370	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
N-Nitrosodiphenylamine	ND		2200	1800	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Naphthalene	ND		2200	280	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Nitrobenzene	ND		2200	240	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Pentachlorophenol	ND		4200	2200	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Phenanthrene	**1500**	**J**	2200	320	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Phenol	ND		2200	330	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10
Pyrene	**2100**	**J**	2200	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*100*		*54 - 120*	*11/09/17 07:09*	*11/13/17 17:29*	*10*
2-Fluorobiphenyl	*84*		*60 - 120*	*11/09/17 07:09*	*11/13/17 17:29*	*10*
2-Fluorophenol	*76*		*52 - 120*	*11/09/17 07:09*	*11/13/17 17:29*	*10*
Nitrobenzene-d5	*66*		*53 - 120*	*11/09/17 07:09*	*11/13/17 17:29*	*10*
p-Terphenyl-d14	*96*		*65 - 121*	*11/09/17 07:09*	*11/13/17 17:29*	*10*
Phenol-d5	*80*		*54 - 120*	*11/09/17 07:09*	*11/13/17 17:29*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.059	mg/Kg	☼	11/09/17 10:52	11/10/17 15:38	1
PCB-1221	ND		0.30	0.059	mg/Kg	☼	11/09/17 10:52	11/10/17 15:38	1
PCB-1232	ND		0.30	0.059	mg/Kg	☼	11/09/17 10:52	11/10/17 15:38	1
PCB-1242	ND		0.30	0.059	mg/Kg	☼	11/09/17 10:52	11/10/17 15:38	1
PCB-1248	ND		0.30	0.059	mg/Kg	☼	11/09/17 10:52	11/10/17 15:38	1
PCB-1254	**4.7**		0.30	0.14	mg/Kg	☼	11/09/17 10:52	11/10/17 15:38	1
PCB-1260	**3.5**		0.30	0.14	mg/Kg	☼	11/09/17 10:52	11/10/17 15:38	1
PCB-1262	ND		0.30	0.14	mg/Kg	☼	11/09/17 10:52	11/10/17 15:38	1
PCB-1268	ND		0.30	0.14	mg/Kg	☼	11/09/17 10:52	11/10/17 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*124*		*60 - 154*	*11/09/17 10:52*	*11/10/17 15:38*	*1*
Tetrachloro-m-xylene	*103*		*60 - 154*	*11/09/17 10:52*	*11/10/17 15:38*	*1*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*11/09/17 10:52*	*11/10/17 15:38*	*1*
DCB Decachlorobiphenyl	*115*		*65 - 174*	*11/09/17 10:52*	*11/10/17 15:38*	*1*

Client Sample ID: NS-SBN-SOIL 0-2"

Lab Sample ID: 480-127239-5
Date Collected: 11/07/17 15:20
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2000	300	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
bis (2-chloroisopropyl) ether	ND		2000	400	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2,4,5-Trichlorophenol	ND		2000	550	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2,4,6-Trichlorophenol	ND		2000	400	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10

Client Sample ID: NS-SBN-SOIL 0-2"
Date Collected: 11/07/17 15:20
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-5
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		2000	210	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2,4-Dimethylphenol	ND		2000	490	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2,4-Dinitrophenol	ND		20000	9300	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2,4-Dinitrotoluene	ND		2000	420	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2,6-Dinitrotoluene	ND		2000	240	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2-Chloronaphthalene	ND		2000	330	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2-Chlorophenol	ND		2000	370	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2-Methylnaphthalene	ND		2000	400	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2-Methylphenol	ND		2000	240	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2-Nitroaniline	ND		3900	300	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
2-Nitrophenol	ND		2000	570	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
3,3'-Dichlorobenzidine	ND		3900	2400	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
3-Nitroaniline	ND		3900	560	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
4,6-Dinitro-2-methylphenol	ND		3900	2000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
4-Bromophenyl phenyl ether	ND		2000	290	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
4-Chloro-3-methylphenol	ND		2000	500	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
4-Chloroaniline	ND		2000	500	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
4-Chlorophenyl phenyl ether	ND		2000	250	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
4-Methylphenol	ND		3900	240	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
4-Nitroaniline	ND		3900	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
4-Nitrophenol	ND		3900	1400	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Acenaphthene	ND		2000	300	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Acenaphthylene	ND		2000	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Acetophenone	ND		2000	270	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Anthracene	**570**	**J**	2000	500	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Atrazine	ND		2000	700	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Benzaldehyde	ND		2000	1600	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Benzo(a)anthracene	**1600**	**J**	2000	200	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Benzo(a)pyrene	**1600**	**J**	2000	300	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Benzo(b)fluoranthene	**1900**	**J**	2000	320	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Benzo(g,h,i)perylene	**1300**	**J**	2000	210	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Benzo(k)fluoranthene	**910**	**J**	2000	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Bis(2-chloroethoxy)methane	ND		2000	430	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Bis(2-chloroethyl)ether	ND		2000	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Bis(2-ethylhexyl) phthalate	ND		2000	690	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Butyl benzyl phthalate	ND		2000	330	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Caprolactam	ND		2000	610	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Carbazole	**310**	**J**	2000	240	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Chrysene	**1700**	**J**	2000	450	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Di-n-butyl phthalate	**2200**		2000	340	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Di-n-octyl phthalate	ND		2000	240	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Dibenz(a,h)anthracene	ND		2000	360	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Dibenzofuran	ND		2000	240	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Diethyl phthalate	ND		2000	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Dimethyl phthalate	ND		2000	240	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Fluoranthene	**3200**		2000	210	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Fluorene	**240**	**J**	2000	240	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Hexachlorobenzene	ND		2000	270	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Hexachlorobutadiene	ND		2000	300	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10

Client Sample ID: NS-SBN-SOIL 0-2"

Date Collected: 11/07/17 15:20
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-5

Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		2000	270	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Hexachloroethane	ND		2000	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Indeno(1,2,3-cd)pyrene	**1000**	**J**	2000	250	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Isophorone	ND		2000	430	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
N-Nitrosodi-n-propylamine	ND		2000	340	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
N-Nitrosodiphenylamine	ND		2000	1600	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Naphthalene	ND		2000	260	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Nitrobenzene	ND		2000	230	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Pentachlorophenol	ND		3900	2000	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Phenanthrene	**2400**		2000	300	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Phenol	ND		2000	310	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10
Pyrene	**3000**		2000	240	ug/Kg	☼	11/09/17 07:09	11/13/17 17:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*111*		*54 - 120*	*11/09/17 07:09*	*11/13/17 17:56*	*10*
2-Fluorobiphenyl	*91*		*60 - 120*	*11/09/17 07:09*	*11/13/17 17:56*	*10*
2-Fluorophenol	*76*		*52 - 120*	*11/09/17 07:09*	*11/13/17 17:56*	*10*
Nitrobenzene-d5	*71*		*53 - 120*	*11/09/17 07:09*	*11/13/17 17:56*	*10*
p-Terphenyl-d14	*103*		*65 - 121*	*11/09/17 07:09*	*11/13/17 17:56*	*10*
Phenol-d5	*83*		*54 - 120*	*11/09/17 07:09*	*11/13/17 17:56*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.046	mg/Kg	☼	11/09/17 10:52	11/10/17 15:54	1
PCB-1221	ND		0.23	0.046	mg/Kg	☼	11/09/17 10:52	11/10/17 15:54	1
PCB-1232	ND		0.23	0.046	mg/Kg	☼	11/09/17 10:52	11/10/17 15:54	1
PCB-1242	ND		0.23	0.046	mg/Kg	☼	11/09/17 10:52	11/10/17 15:54	1
PCB-1248	ND		0.23	0.046	mg/Kg	☼	11/09/17 10:52	11/10/17 15:54	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	11/09/17 10:52	11/10/17 15:54	1
PCB-1260	**4.2**		0.23	0.11	mg/Kg	☼	11/09/17 10:52	11/10/17 15:54	1
PCB-1262	ND		0.23	0.11	mg/Kg	☼	11/09/17 10:52	11/10/17 15:54	1
PCB-1268	ND		0.23	0.11	mg/Kg	☼	11/09/17 10:52	11/10/17 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*60 - 154*	*11/09/17 10:52*	*11/10/17 15:54*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*11/09/17 10:52*	*11/10/17 15:54*	*1*
DCB Decachlorobiphenyl	*89*		*65 - 174*	*11/09/17 10:52*	*11/10/17 15:54*	*1*
DCB Decachlorobiphenyl	*110*		*65 - 174*	*11/09/17 10:52*	*11/10/17 15:54*	*1*

Client Sample ID: NS-DUP-SOIL 0-2"

Date Collected: 11/07/17 00:00
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-6

Matrix: Solid
Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4500	660	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
bis (2-chloroisopropyl) ether	ND		4500	900	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2,4,5-Trichlorophenol	ND		4500	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2,4,6-Trichlorophenol	ND		4500	900	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2,4-Dichlorophenol	ND		4500	480	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20

Client Sample ID: NS-DUP-SOIL 0-2"
Lab Sample ID: 480-127239-6
Date Collected: 11/07/17 00:00
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		4500	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2,4-Dinitrophenol	ND		44000	21000	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2,4-Dinitrotoluene	ND		4500	920	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2,6-Dinitrotoluene	ND		4500	530	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2-Chloronaphthalene	ND		4500	740	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2-Chlorophenol	ND		4500	820	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2-Methylnaphthalene	ND		4500	900	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2-Methylphenol	ND		4500	530	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2-Nitroaniline	ND		8700	660	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
2-Nitrophenol	ND		4500	1300	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
3,3'-Dichlorobenzidine	ND		8700	5300	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
3-Nitroaniline	ND		8700	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
4,6-Dinitro-2-methylphenol	ND		8700	4500	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
4-Bromophenyl phenyl ether	ND		4500	630	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
4-Chloro-3-methylphenol	ND		4500	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
4-Chloroaniline	ND		4500	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
4-Chlorophenyl phenyl ether	ND		4500	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
4-Methylphenol	ND		8700	530	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
4-Nitroaniline	ND		8700	2300	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
4-Nitrophenol	ND		8700	3100	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Acenaphthene	ND		4500	660	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Acenaphthylene	ND		4500	580	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Acetophenone	ND		4500	610	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Anthracene	ND		4500	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Atrazine	ND		4500	1600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Benzaldehyde	ND		4500	3600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Benzo(a)anthracene	**640**	**J**	4500	450	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Benzo(a)pyrene	ND		4500	660	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Benzo(b)fluoranthene	ND		4500	710	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Benzo(g,h,i)perylene	ND		4500	480	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Benzo(k)fluoranthene	ND		4500	580	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Bis(2-chloroethoxy)methane	ND		4500	950	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Bis(2-chloroethyl)ether	ND		4500	580	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Bis(2-ethylhexyl) phthalate	ND		4500	1500	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Butyl benzyl phthalate	ND		4500	740	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Caprolactam	ND		4500	1300	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Carbazole	ND		4500	530	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Chrysene	ND		4500	1000	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Di-n-butyl phthalate	ND		4500	770	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Di-n-octyl phthalate	ND		4500	530	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Dibenz(a,h)anthracene	ND		4500	790	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Dibenzofuran	ND		4500	530	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Diethyl phthalate	ND		4500	580	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Dimethyl phthalate	ND		4500	530	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Fluoranthene	**1200**	**J**	4500	480	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Fluorene	ND		4500	530	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Hexachlorobenzene	ND		4500	610	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Hexachlorobutadiene	ND		4500	660	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Hexachlorocyclopentadiene	ND		4500	610	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20

Client Sample ID: NS-DUP-SOIL 0-2"

Lab Sample ID: 480-127239-6
Date Collected: 11/07/17 00:00
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		4500	580	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Indeno(1,2,3-cd)pyrene	ND		4500	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Isophorone	ND		4500	950	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
N-Nitrosodi-n-propylamine	ND		4500	770	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
N-Nitrosodiphenylamine	ND		4500	3600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Naphthalene	ND		4500	580	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Nitrobenzene	ND		4500	500	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Pentachlorophenol	ND		8700	4500	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Phenanthrene	**800**	**J**	4500	660	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Phenol	ND		4500	690	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20
Pyrene	**980**	**J**	4500	530	ug/Kg	☼	11/09/17 07:09	11/13/17 18:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*11/09/17 07:09*	*11/13/17 18:22*	*20*
2-Fluorobiphenyl	*35*	*X*	*60 - 120*	*11/09/17 07:09*	*11/13/17 18:22*	*20*
2-Fluorophenol	*24*	*X*	*52 - 120*	*11/09/17 07:09*	*11/13/17 18:22*	*20*
Nitrobenzene-d5	*26*	*X*	*53 - 120*	*11/09/17 07:09*	*11/13/17 18:22*	*20*
p-Terphenyl-d14	*36*	*X*	*65 - 121*	*11/09/17 07:09*	*11/13/17 18:22*	*20*
Phenol-d5	*27*	*X*	*54 - 120*	*11/09/17 07:09*	*11/13/17 18:22*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.059	mg/Kg	☼	11/09/17 10:52	11/10/17 16:10	1
PCB-1221	ND		0.30	0.059	mg/Kg	☼	11/09/17 10:52	11/10/17 16:10	1
PCB-1232	ND		0.30	0.059	mg/Kg	☼	11/09/17 10:52	11/10/17 16:10	1
PCB-1242	ND		0.30	0.059	mg/Kg	☼	11/09/17 10:52	11/10/17 16:10	1
PCB-1248	ND		0.30	0.059	mg/Kg	☼	11/09/17 10:52	11/10/17 16:10	1
PCB-1254	ND		0.30	0.14	mg/Kg	☼	11/09/17 10:52	11/10/17 16:10	1
PCB-1260	**1.2**		0.30	0.14	mg/Kg	☼	11/09/17 10:52	11/10/17 16:10	1
PCB-1262	ND		0.30	0.14	mg/Kg	☼	11/09/17 10:52	11/10/17 16:10	1
PCB-1268	ND		0.30	0.14	mg/Kg	☼	11/09/17 10:52	11/10/17 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*60 - 154*	*11/09/17 10:52*	*11/10/17 16:10*	*1*
Tetrachloro-m-xylene	*74*		*60 - 154*	*11/09/17 10:52*	*11/10/17 16:10*	*1*
DCB Decachlorobiphenyl	*104*		*65 - 174*	*11/09/17 10:52*	*11/10/17 16:10*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*11/09/17 10:52*	*11/10/17 16:10*	*1*

Client Sample ID: NS-NORTH-SOIL 2-12"

Lab Sample ID: 480-127239-7
Date Collected: 11/07/17 13:10
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 71.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4600	680	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
bis (2-chloroisopropyl) ether	ND		4600	930	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2,4,5-Trichlorophenol	ND		4600	1300	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2,4,6-Trichlorophenol	ND		4600	930	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2,4-Dichlorophenol	ND		4600	490	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2,4-Dimethylphenol	ND		4600	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20

Client Sample ID: NS-NORTH-SOIL 2-12"
Date Collected: 11/07/17 13:10
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-7
Matrix: Solid
Percent Solids: 71.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		45000	21000	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2,4-Dinitrotoluene	ND		4600	960	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2,6-Dinitrotoluene	ND		4600	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2-Chloronaphthalene	ND		4600	770	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2-Chlorophenol	ND		4600	850	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2-Methylnaphthalene	ND		4600	930	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2-Methylphenol	ND		4600	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2-Nitroaniline	ND		9000	680	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
2-Nitrophenol	ND		4600	1300	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
3,3'-Dichlorobenzidine	ND		9000	5500	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
3-Nitroaniline	ND		9000	1300	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
4,6-Dinitro-2-methylphenol	ND		9000	4600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
4-Bromophenyl phenyl ether	ND		4600	660	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
4-Chloro-3-methylphenol	ND		4600	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
4-Chloroaniline	ND		4600	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
4-Chlorophenyl phenyl ether	ND		4600	570	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
4-Methylphenol	ND		9000	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
4-Nitroaniline	ND		9000	2400	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
4-Nitrophenol	ND		9000	3300	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Acenaphthene	**6400**		4600	680	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Acenaphthylene	ND		4600	600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Acetophenone	ND		4600	630	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Anthracene	**9600**		4600	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Atrazine	ND		4600	1600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Benzaldehyde	ND		4600	3700	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Benzo(a)anthracene	**19000**		4600	460	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Benzo(a)pyrene	**17000**		4600	680	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Benzo(b)fluoranthene	**19000**		4600	740	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Benzo(g,h,i)perylene	**15000**		4600	490	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Benzo(k)fluoranthene	**10000**		4600	600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Bis(2-chloroethoxy)methane	ND		4600	980	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Bis(2-chloroethyl)ether	ND		4600	600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Bis(2-ethylhexyl) phthalate	ND		4600	1600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Butyl benzyl phthalate	ND		4600	770	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Caprolactam	ND		4600	1400	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Carbazole	**5200**		4600	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Chrysene	**18000**		4600	1000	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Di-n-butyl phthalate	**890**	**J**	4600	790	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Di-n-octyl phthalate	ND		4600	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Dibenz(a,h)anthracene	ND		4600	820	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Dibenzofuran	**2900**	**J**	4600	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Diethyl phthalate	ND		4600	600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Dimethyl phthalate	ND		4600	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Fluoranthene	**47000**		4600	490	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Fluorene	**4700**		4600	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Hexachlorobenzene	ND		4600	630	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Hexachlorobutadiene	ND		4600	680	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Hexachlorocyclopentadiene	ND		4600	630	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Hexachloroethane	ND		4600	600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20

Client Sample ID: NS-NORTH-SOIL 2-12"

Lab Sample ID: 480-127239-7
Date Collected: 11/07/17 13:10
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 71.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	**12000**		4600	570	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Isophorone	ND		4600	980	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
N-Nitrosodi-n-propylamine	ND		4600	790	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
N-Nitrosodiphenylamine	ND		4600	3800	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Naphthalene	**1700**	**J**	4600	600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Nitrobenzene	ND		4600	520	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Pentachlorophenol	ND		9000	4600	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Phenanthrene	**43000**		4600	680	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Phenol	ND		4600	710	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20
Pyrene	**41000**		4600	550	ug/Kg	☼	11/09/17 07:09	11/13/17 18:49	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*11/09/17 07:09*	*11/13/17 18:49*	*20*
2-Fluorobiphenyl	*31*	*X*	*60 - 120*	*11/09/17 07:09*	*11/13/17 18:49*	*20*
2-Fluorophenol	*22*	*X*	*52 - 120*	*11/09/17 07:09*	*11/13/17 18:49*	*20*
Nitrobenzene-d5	*20*	*X*	*53 - 120*	*11/09/17 07:09*	*11/13/17 18:49*	*20*
p-Terphenyl-d14	*31*	*X*	*65 - 121*	*11/09/17 07:09*	*11/13/17 18:49*	*20*
Phenol-d5	*23*	*X*	*54 - 120*	*11/09/17 07:09*	*11/13/17 18:49*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.33	0.065	mg/Kg	☼	11/09/17 10:52	11/10/17 16:25	1
PCB-1221	ND		0.33	0.065	mg/Kg	☼	11/09/17 10:52	11/10/17 16:25	1
PCB-1232	ND		0.33	0.065	mg/Kg	☼	11/09/17 10:52	11/10/17 16:25	1
PCB-1242	ND		0.33	0.065	mg/Kg	☼	11/09/17 10:52	11/10/17 16:25	1
PCB-1248	ND		0.33	0.065	mg/Kg	☼	11/09/17 10:52	11/10/17 16:25	1
PCB-1254	**2.7**		0.33	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 16:25	1
PCB-1260	**2.7**		0.33	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 16:25	1
PCB-1262	ND		0.33	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 16:25	1
PCB-1268	ND		0.33	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*118*		*60 - 154*	*11/09/17 10:52*	*11/10/17 16:25*	*1*
Tetrachloro-m-xylene	*98*		*60 - 154*	*11/09/17 10:52*	*11/10/17 16:25*	*1*
DCB Decachlorobiphenyl	*97*		*65 - 174*	*11/09/17 10:52*	*11/10/17 16:25*	*1*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*11/09/17 10:52*	*11/10/17 16:25*	*1*

Client Sample ID: NS-EAST-SOIL 2-12"

Lab Sample ID: 480-127239-8
Date Collected: 11/07/17 13:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4400	650	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
bis (2-chloroisopropyl) ether	ND		4400	880	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2,4,5-Trichlorophenol	ND		4400	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2,4,6-Trichlorophenol	ND		4400	880	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2,4-Dichlorophenol	ND		4400	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2,4-Dimethylphenol	ND		4400	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2,4-Dinitrophenol	ND		43000	20000	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20

Client Sample ID: NS-EAST-SOIL 2-12"

Date Collected: 11/07/17 13:50
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-8

Matrix: Solid
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		4400	910	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2,6-Dinitrotoluene	ND		4400	520	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2-Chloronaphthalene	ND		4400	730	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2-Chlorophenol	ND		4400	800	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2-Methylnaphthalene	ND		4400	880	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2-Methylphenol	ND		4400	520	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2-Nitroaniline	ND		8600	650	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
2-Nitrophenol	ND		4400	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
3,3'-Dichlorobenzidine	ND		8600	5200	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
3-Nitroaniline	ND		8600	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
4,6-Dinitro-2-methylphenol	ND		8600	4400	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
4-Bromophenyl phenyl ether	ND		4400	620	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
4-Chloro-3-methylphenol	ND		4400	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
4-Chloroaniline	ND		4400	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
4-Chlorophenyl phenyl ether	ND		4400	550	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
4-Methylphenol	ND		8600	520	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
4-Nitroaniline	ND		8600	2300	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
4-Nitrophenol	ND		8600	3100	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Acenaphthene	**940**	**J**	4400	650	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Acenaphthylene	**2500**	**J**	4400	570	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Acetophenone	ND		4400	600	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Anthracene	**4300**	**J**	4400	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Atrazine	ND		4400	1500	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Benzaldehyde	ND		4400	3500	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Benzo(a)anthracene	**12000**		4400	440	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Benzo(a)pyrene	**10000**		4400	650	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Benzo(b)fluoranthene	**13000**		4400	700	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Benzo(g,h,i)perylene	**7600**		4400	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Benzo(k)fluoranthene	**7100**		4400	570	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Bis(2-chloroethoxy)methane	ND		4400	930	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Bis(2-chloroethyl)ether	ND		4400	570	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Bis(2-ethylhexyl) phthalate	ND		4400	1500	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Butyl benzyl phthalate	ND		4400	730	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Caprolactam	ND		4400	1300	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Carbazole	**2900**	**J**	4400	520	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Chrysene	**12000**		4400	990	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Di-n-butyl phthalate	ND		4400	750	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Di-n-octyl phthalate	ND		4400	520	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Dibenz(a,h)anthracene	**2500**	**J**	4400	780	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Dibenzofuran	**1700**	**J**	4400	520	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Diethyl phthalate	ND		4400	570	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Dimethyl phthalate	ND		4400	520	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Fluoranthene	**26000**		4400	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Fluorene	**2700**	**J**	4400	520	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Hexachlorobenzene	ND		4400	600	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Hexachlorobutadiene	ND		4400	650	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Hexachlorocyclopentadiene	ND		4400	600	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Hexachloroethane	ND		4400	570	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Indeno(1,2,3-cd)pyrene	**7000**		4400	550	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20

Client Sample ID: NS-EAST-SOIL 2-12"

Lab Sample ID: 480-127239-8
Date Collected: 11/07/17 13:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		4400	930	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
N-Nitrosodi-n-propylamine	ND		4400	750	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
N-Nitrosodiphenylamine	ND		4400	3600	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Naphthalene	**1200**	**J**	4400	570	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Nitrobenzene	ND		4400	490	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Pentachlorophenol	ND		8600	4400	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Phenanthrene	**20000**		4400	650	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Phenol	ND		4400	670	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20
Pyrene	**20000**		4400	520	ug/Kg	☼	11/09/17 07:09	11/13/17 19:15	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*149*	*X*	*54 - 120*	*11/09/17 07:09*	*11/13/17 19:15*	*20*
2-Fluorobiphenyl	*83*		*60 - 120*	*11/09/17 07:09*	*11/13/17 19:15*	*20*
2-Fluorophenol	*63*		*52 - 120*	*11/09/17 07:09*	*11/13/17 19:15*	*20*
Nitrobenzene-d5	*64*		*53 - 120*	*11/09/17 07:09*	*11/13/17 19:15*	*20*
p-Terphenyl-d14	*91*		*65 - 121*	*11/09/17 07:09*	*11/13/17 19:15*	*20*
Phenol-d5	*75*		*54 - 120*	*11/09/17 07:09*	*11/13/17 19:15*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.31	0.061	mg/Kg	☼	11/09/17 10:52	11/10/17 16:41	1
PCB-1221	ND		0.31	0.061	mg/Kg	☼	11/09/17 10:52	11/10/17 16:41	1
PCB-1232	ND		0.31	0.061	mg/Kg	☼	11/09/17 10:52	11/10/17 16:41	1
PCB-1242	ND		0.31	0.061	mg/Kg	☼	11/09/17 10:52	11/10/17 16:41	1
PCB-1248	ND		0.31	0.061	mg/Kg	☼	11/09/17 10:52	11/10/17 16:41	1
PCB-1254	ND		0.31	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 16:41	1
PCB-1260	**0.72**		0.31	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 16:41	1
PCB-1262	ND		0.31	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 16:41	1
PCB-1268	ND		0.31	0.15	mg/Kg	☼	11/09/17 10:52	11/10/17 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*60 - 154*	*11/09/17 10:52*	*11/10/17 16:41*	*1*
Tetrachloro-m-xylene	*91*		*60 - 154*	*11/09/17 10:52*	*11/10/17 16:41*	*1*
DCB Decachlorobiphenyl	*93*		*65 - 174*	*11/09/17 10:52*	*11/10/17 16:41*	*1*
DCB Decachlorobiphenyl	*106*		*65 - 174*	*11/09/17 10:52*	*11/10/17 16:41*	*1*

Client Sample ID: NS-SOUTH-SOIL 2-12"

Lab Sample ID: 480-127239-9
Date Collected: 11/07/17 14:30
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2000	300	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
bis (2-chloroisopropyl) ether	ND	F1	2000	410	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2,4,5-Trichlorophenol	ND	F2	2000	550	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2,4,6-Trichlorophenol	ND		2000	410	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2,4-Dichlorophenol	ND		2000	210	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2,4-Dimethylphenol	ND		2000	490	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2,4-Dinitrophenol	ND		20000	9400	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2,4-Dinitrotoluene	ND		2000	420	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10

Client Sample ID: NS-SOUTH-SOIL 2-12"
Lab Sample ID: 480-127239-9
Date Collected: 11/07/17 14:30
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND	F2	2000	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2-Chloronaphthalene	ND		2000	330	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2-Chlorophenol	ND		2000	370	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2-Methylnaphthalene	ND		2000	410	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2-Methylphenol	ND		2000	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2-Nitroaniline	ND		3900	300	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
2-Nitrophenol	ND		2000	570	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
3,3'-Dichlorobenzidine	ND		3900	2400	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
3-Nitroaniline	ND		3900	560	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
4,6-Dinitro-2-methylphenol	ND		3900	2000	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
4-Bromophenyl phenyl ether	ND		2000	290	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
4-Chloro-3-methylphenol	ND		2000	500	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
4-Chloroaniline	ND		2000	500	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
4-Chlorophenyl phenyl ether	ND		2000	250	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
4-Methylphenol	ND		3900	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
4-Nitroaniline	ND		3900	1100	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
4-Nitrophenol	ND	F1	3900	1400	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Acenaphthene	ND		2000	300	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Acenaphthylene	ND		2000	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Acetophenone	ND		2000	270	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Anthracene	ND		2000	500	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Atrazine	ND		2000	700	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Benzaldehyde	ND		2000	1600	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Benzo(a)anthracene	ND	F2 F1	2000	200	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Benzo(a)pyrene	ND	F1	2000	300	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Benzo(b)fluoranthene	ND	F1	2000	320	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Benzo(g,h,i)perylene	ND	F1	2000	210	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Benzo(k)fluoranthene	ND	F1	2000	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Bis(2-chloroethoxy)methane	ND		2000	430	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Bis(2-chloroethyl)ether	ND		2000	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Bis(2-ethylhexyl) phthalate	ND	F1 *	2000	690	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Butyl benzyl phthalate	ND	F2 F1 *	2000	330	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Caprolactam	ND		2000	610	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Carbazole	ND		2000	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Chrysene	ND	F2 F1	2000	450	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Di-n-butyl phthalate	ND		2000	350	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Di-n-octyl phthalate	ND		2000	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Dibenz(a,h)anthracene	ND		2000	360	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Dibenzofuran	ND		2000	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Diethyl phthalate	ND		2000	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Dimethyl phthalate	ND		2000	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Fluoranthene	ND	F2 F1	2000	210	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Fluorene	ND		2000	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Hexachlorobenzene	ND		2000	270	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Hexachlorobutadiene	ND		2000	300	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Hexachlorocyclopentadiene	ND		2000	270	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Hexachloroethane	ND		2000	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Indeno(1,2,3-cd)pyrene	ND	F1	2000	250	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Isophorone	ND		2000	430	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10

Client Sample ID: NS-SOUTH-SOIL 2-12"

Lab Sample ID: 480-127239-9
Date Collected: 11/07/17 14:30
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		2000	350	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
N-Nitrosodiphenylamine	ND		2000	1600	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Naphthalene	ND		2000	260	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Nitrobenzene	ND		2000	230	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Pentachlorophenol	ND		3900	2000	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Phenanthrene	ND	F1	2000	300	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Phenol	ND		2000	310	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10
Pyrene	ND	F1	2000	240	ug/Kg	☼	11/15/17 14:07	11/16/17 18:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*111*		*54 - 120*	*11/15/17 14:07*	*11/16/17 18:38*	*10*
2-Fluorobiphenyl	*79*		*60 - 120*	*11/15/17 14:07*	*11/16/17 18:38*	*10*
2-Fluorophenol	*57*		*52 - 120*	*11/15/17 14:07*	*11/16/17 18:38*	*10*
Nitrobenzene-d5	*68*		*53 - 120*	*11/15/17 14:07*	*11/16/17 18:38*	*10*
p-Terphenyl-d14	*70*		*65 - 121*	*11/15/17 14:07*	*11/16/17 18:38*	*10*
Phenol-d5	*66*		*54 - 120*	*11/15/17 14:07*	*11/16/17 18:38*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2	0.29	0.056	mg/Kg	☼	11/09/17 10:52	11/10/17 14:50	1
PCB-1221	ND		0.29	0.056	mg/Kg	☼	11/09/17 10:52	11/10/17 14:50	1
PCB-1232	ND		0.29	0.056	mg/Kg	☼	11/09/17 10:52	11/10/17 14:50	1
PCB-1242	ND		0.29	0.056	mg/Kg	☼	11/09/17 10:52	11/10/17 14:50	1
PCB-1248	ND		0.29	0.056	mg/Kg	☼	11/09/17 10:52	11/10/17 14:50	1
PCB-1254	ND		0.29	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 14:50	1
PCB-1260	**0.20**	**J**	0.29	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 14:50	1
PCB-1262	ND		0.29	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 14:50	1
PCB-1268	ND		0.29	0.13	mg/Kg	☼	11/09/17 10:52	11/10/17 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*112*		*60 - 154*	*11/09/17 10:52*	*11/10/17 14:50*	*1*
Tetrachloro-m-xylene	*96*		*60 - 154*	*11/09/17 10:52*	*11/10/17 14:50*	*1*
DCB Decachlorobiphenyl	*91*		*65 - 174*	*11/09/17 10:52*	*11/10/17 14:50*	*1*
DCB Decachlorobiphenyl	*112*		*65 - 174*	*11/09/17 10:52*	*11/10/17 14:50*	*1*

Client Sample ID: NS-WEST-SOIL 2-12"

Lab Sample ID: 480-127239-10
Date Collected: 11/07/17 14:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4000	580	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
bis (2-chloroisopropyl) ether	ND		4000	790	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2,4,5-Trichlorophenol	ND		4000	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2,4,6-Trichlorophenol	ND		4000	790	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2,4-Dichlorophenol	ND		4000	420	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2,4-Dimethylphenol	ND		4000	960	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2,4-Dinitrophenol	ND		39000	18000	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2,4-Dinitrotoluene	ND		4000	820	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2,6-Dinitrotoluene	ND		4000	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20

Client Sample ID: NS-WEST-SOIL 2-12"

Date Collected: 11/07/17 14:50
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-10

Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		4000	650	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2-Chlorophenol	ND		4000	720	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2-Methylnaphthalene	ND		4000	790	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2-Methylphenol	ND		4000	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2-Nitroaniline	ND		7700	580	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
2-Nitrophenol	ND		4000	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
3,3'-Dichlorobenzidine	ND		7700	4700	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
3-Nitroaniline	ND		7700	1100	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
4,6-Dinitro-2-methylphenol	ND		7700	4000	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
4-Bromophenyl phenyl ether	ND		4000	560	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
4-Chloro-3-methylphenol	ND		4000	980	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
4-Chloroaniline	ND		4000	980	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
4-Chlorophenyl phenyl ether	ND		4000	490	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
4-Methylphenol	ND		7700	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
4-Nitroaniline	ND		7700	2100	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
4-Nitrophenol	ND		7700	2800	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Acenaphthene	ND		4000	580	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Acenaphthylene	ND		4000	510	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Acetophenone	ND		4000	540	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Anthracene	ND		4000	980	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Atrazine	ND		4000	1400	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Benzaldehyde	ND		4000	3100	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Benzo(a)anthracene	**2300**	**J**	4000	400	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Benzo(a)pyrene	**2400**	**J**	4000	580	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Benzo(b)fluoranthene	**3200**	**J**	4000	630	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Benzo(g,h,i)perylene	**2000**	**J**	4000	420	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Benzo(k)fluoranthene	**1000**	**J**	4000	510	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Bis(2-chloroethoxy)methane	ND		4000	840	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Bis(2-chloroethyl)ether	ND		4000	510	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Bis(2-ethylhexyl) phthalate	ND		4000	1400	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Butyl benzyl phthalate	ND		4000	650	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Caprolactam	ND		4000	1200	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Carbazole	ND		4000	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Chrysene	**2400**	**J**	4000	890	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Di-n-butyl phthalate	ND		4000	680	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Di-n-octyl phthalate	ND		4000	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Dibenz(a,h)anthracene	ND		4000	700	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Dibenzofuran	ND		4000	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Diethyl phthalate	ND		4000	510	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Dimethyl phthalate	ND		4000	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Fluoranthene	**4500**		4000	420	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Fluorene	ND		4000	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Hexachlorobenzene	ND		4000	540	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Hexachlorobutadiene	ND		4000	580	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Hexachlorocyclopentadiene	ND		4000	540	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Hexachloroethane	ND		4000	510	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Indeno(1,2,3-cd)pyrene	**1700**	**J**	4000	490	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Isophorone	ND		4000	840	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
N-Nitrosodi-n-propylamine	ND		4000	680	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20

Client Sample ID: NS-WEST-SOIL 2-12"

Lab Sample ID: 480-127239-10
Date Collected: 11/07/17 14:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		4000	3200	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Naphthalene	ND		4000	510	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Nitrobenzene	ND		4000	440	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Pentachlorophenol	ND		7700	4000	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Phenanthrene	**3500**	**J**	4000	580	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Phenol	ND		4000	610	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20
Pyrene	**4100**		4000	470	ug/Kg	☼	11/09/17 07:09	11/13/17 19:42	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*54 - 120*	*11/09/17 07:09*	*11/13/17 19:42*	*20*
2-Fluorobiphenyl	*86*		*60 - 120*	*11/09/17 07:09*	*11/13/17 19:42*	*20*
2-Fluorophenol	*64*		*52 - 120*	*11/09/17 07:09*	*11/13/17 19:42*	*20*
Nitrobenzene-d5	*72*		*53 - 120*	*11/09/17 07:09*	*11/13/17 19:42*	*20*
p-Terphenyl-d14	*95*		*65 - 121*	*11/09/17 07:09*	*11/13/17 19:42*	*20*
Phenol-d5	*78*		*54 - 120*	*11/09/17 07:09*	*11/13/17 19:42*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	11/09/17 10:52	11/10/17 16:57	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	11/09/17 10:52	11/10/17 16:57	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	11/09/17 10:52	11/10/17 16:57	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	11/09/17 10:52	11/10/17 16:57	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	11/09/17 10:52	11/10/17 16:57	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	11/09/17 10:52	11/10/17 16:57	1
PCB-1260	**0.91**		0.24	0.11	mg/Kg	☼	11/09/17 10:52	11/10/17 16:57	1
PCB-1262	ND		0.24	0.11	mg/Kg	☼	11/09/17 10:52	11/10/17 16:57	1
PCB-1268	ND		0.24	0.11	mg/Kg	☼	11/09/17 10:52	11/10/17 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*60 - 154*	*11/09/17 10:52*	*11/10/17 16:57*	*1*
Tetrachloro-m-xylene	*91*		*60 - 154*	*11/09/17 10:52*	*11/10/17 16:57*	*1*
DCB Decachlorobiphenyl	*85*		*65 - 174*	*11/09/17 10:52*	*11/10/17 16:57*	*1*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*11/09/17 10:52*	*11/10/17 16:57*	*1*

Client Sample ID: NS-SBN-SOIL 2-12"

Lab Sample ID: 480-127239-11
Date Collected: 11/07/17 15:20
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		970	140	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
bis (2-chloroisopropyl) ether	ND		970	190	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2,4,5-Trichlorophenol	ND		970	260	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2,4,6-Trichlorophenol	ND		970	190	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2,4-Dichlorophenol	ND		970	100	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2,4-Dimethylphenol	ND		970	230	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2,4-Dinitrophenol	ND		9500	4500	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2,4-Dinitrotoluene	ND		970	200	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2,6-Dinitrotoluene	ND		970	110	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2-Chloronaphthalene	ND		970	160	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5

Client Sample ID: NS-SBN-SOIL 2-12"

Date Collected: 11/07/17 15:20
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-11

Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		970	180	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2-Methylnaphthalene	ND		970	190	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2-Methylphenol	ND		970	110	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2-Nitroaniline	ND		1900	140	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
2-Nitrophenol	ND		970	270	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
3,3'-Dichlorobenzidine	ND		1900	1100	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
4,6-Dinitro-2-methylphenol	ND		1900	970	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
4-Bromophenyl phenyl ether	ND		970	140	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
4-Chloro-3-methylphenol	ND		970	240	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
4-Chloroaniline	ND		970	240	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
4-Chlorophenyl phenyl ether	ND		970	120	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
4-Methylphenol	ND		1900	110	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
4-Nitroaniline	ND		1900	510	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
4-Nitrophenol	ND		1900	680	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Acenaphthene	ND		970	140	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Acenaphthylene	ND		970	130	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Acetophenone	ND		970	130	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Anthracene	ND		970	240	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Atrazine	ND		970	340	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Benzaldehyde	ND		970	770	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Benzo(a)anthracene	**310**	**J**	970	97	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Benzo(a)pyrene	**270**	**J**	970	140	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Benzo(b)fluoranthene	**290**	**J**	970	150	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Benzo(g,h,i)perylene	**200**	**J**	970	100	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Benzo(k)fluoranthene	**190**	**J**	970	130	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Bis(2-chloroethoxy)methane	ND		970	210	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Bis(2-chloroethyl)ether	ND		970	130	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Bis(2-ethylhexyl) phthalate	ND		970	330	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Butyl benzyl phthalate	ND		970	160	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Caprolactam	ND		970	290	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Carbazole	ND		970	110	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Chrysene	**310**	**J**	970	220	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Di-n-butyl phthalate	**1100**		970	170	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Di-n-octyl phthalate	ND		970	110	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Dibenz(a,h)anthracene	ND		970	170	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Dibenzofuran	ND		970	110	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Diethyl phthalate	ND		970	130	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Dimethyl phthalate	ND		970	110	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Fluoranthene	**590**	**J**	970	100	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Fluorene	ND		970	110	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Hexachlorobenzene	ND		970	130	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Hexachlorobutadiene	ND		970	140	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Hexachlorocyclopentadiene	ND		970	130	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Hexachloroethane	ND		970	130	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Indeno(1,2,3-cd)pyrene	**170**	**J**	970	120	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Isophorone	ND		970	210	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
N-Nitrosodi-n-propylamine	ND		970	170	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
N-Nitrosodiphenylamine	ND		970	790	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5

Client Sample ID: NS-SBN-SOIL 2-12"

Lab Sample ID: 480-127239-11
Date Collected: 11/07/17 15:20
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		970	130	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Nitrobenzene	ND		970	110	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Pentachlorophenol	ND		1900	970	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Phenanthrene	**500**	**J**	970	140	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Phenol	ND		970	150	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5
Pyrene	**550**	**J**	970	110	ug/Kg	☼	11/09/17 07:09	11/11/17 02:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*54 - 120*	*11/09/17 07:09*	*11/11/17 02:40*	*5*
2-Fluorobiphenyl	*86*		*60 - 120*	*11/09/17 07:09*	*11/11/17 02:40*	*5*
2-Fluorophenol	*67*		*52 - 120*	*11/09/17 07:09*	*11/11/17 02:40*	*5*
Nitrobenzene-d5	*72*		*53 - 120*	*11/09/17 07:09*	*11/11/17 02:40*	*5*
p-Terphenyl-d14	*106*		*65 - 121*	*11/09/17 07:09*	*11/11/17 02:40*	*5*
Phenol-d5	*78*		*54 - 120*	*11/09/17 07:09*	*11/11/17 02:40*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.040	mg/Kg	☼	11/09/17 10:52	11/10/17 17:13	1
PCB-1221	ND		0.20	0.040	mg/Kg	☼	11/09/17 10:52	11/10/17 17:13	1
PCB-1232	ND		0.20	0.040	mg/Kg	☼	11/09/17 10:52	11/10/17 17:13	1
PCB-1242	ND		0.20	0.040	mg/Kg	☼	11/09/17 10:52	11/10/17 17:13	1
PCB-1248	ND		0.20	0.040	mg/Kg	☼	11/09/17 10:52	11/10/17 17:13	1
PCB-1254	ND		0.20	0.095	mg/Kg	☼	11/09/17 10:52	11/10/17 17:13	1
PCB-1260	**5.7**		0.20	0.095	mg/Kg	☼	11/09/17 10:52	11/10/17 17:13	1
PCB-1262	ND		0.20	0.095	mg/Kg	☼	11/09/17 10:52	11/10/17 17:13	1
PCB-1268	ND		0.20	0.095	mg/Kg	☼	11/09/17 10:52	11/10/17 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*144*		*60 - 154*	*11/09/17 10:52*	*11/10/17 17:13*	*1*
Tetrachloro-m-xylene	*123*		*60 - 154*	*11/09/17 10:52*	*11/10/17 17:13*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*11/09/17 10:52*	*11/10/17 17:13*	*1*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*11/09/17 10:52*	*11/10/17 17:13*	*1*

Client Sample ID: NS-DUP-SOIL 2-12"

Lab Sample ID: 480-127239-12
Date Collected: 11/07/17 00:00
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		3900	580	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
bis (2-chloroisopropyl) ether	ND		3900	790	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2,4,5-Trichlorophenol	ND		3900	1100	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2,4,6-Trichlorophenol	ND		3900	790	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2,4-Dichlorophenol	ND		3900	420	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2,4-Dimethylphenol	ND		3900	950	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2,4-Dinitrophenol	ND		39000	18000	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2,4-Dinitrotoluene	ND		3900	810	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2,6-Dinitrotoluene	ND		3900	460	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2-Chloronaphthalene	ND		3900	650	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2-Chlorophenol	ND		3900	720	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20

Client Sample ID: NS-DUP-SOIL 2-12"
Date Collected: 11/07/17 00:00
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-12
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		3900	790	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2-Methylphenol	ND		3900	460	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2-Nitroaniline	ND		7700	580	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
2-Nitrophenol	ND		3900	1100	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
3,3'-Dichlorobenzidine	ND		7700	4600	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
3-Nitroaniline	ND		7700	1100	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
4,6-Dinitro-2-methylphenol	ND		7700	3900	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
4-Bromophenyl phenyl ether	ND		3900	560	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
4-Chloro-3-methylphenol	ND		3900	970	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
4-Chloroaniline	ND		3900	970	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
4-Chlorophenyl phenyl ether	ND		3900	490	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
4-Methylphenol	ND		7700	460	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
4-Nitroaniline	ND		7700	2100	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
4-Nitrophenol	ND		7700	2800	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Acenaphthene	**730**	**J**	3900	580	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Acenaphthylene	ND		3900	510	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Acetophenone	ND		3900	530	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Anthracene	**1600**	**J**	3900	970	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Atrazine	ND		3900	1400	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Benzaldehyde	ND		3900	3100	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Benzo(a)anthracene	**4200**		3900	390	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Benzo(a)pyrene	**3700**	**J**	3900	580	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Benzo(b)fluoranthene	**4400**		3900	630	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Benzo(g,h,i)perylene	**2500**	**J**	3900	420	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Benzo(k)fluoranthene	**2300**	**J**	3900	510	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Bis(2-chloroethoxy)methane	ND		3900	840	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Bis(2-chloroethyl)ether	ND		3900	510	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Bis(2-ethylhexyl) phthalate	ND		3900	1300	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Butyl benzyl phthalate	ND		3900	650	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Caprolactam	ND		3900	1200	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Carbazole	**860**	**J**	3900	460	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Chrysene	**4400**		3900	880	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Di-n-butyl phthalate	ND		3900	670	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Di-n-octyl phthalate	ND		3900	460	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Dibenz(a,h)anthracene	**700**	**J**	3900	700	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Dibenzofuran	ND		3900	460	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Diethyl phthalate	ND		3900	510	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Dimethyl phthalate	ND		3900	460	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Fluoranthene	**9000**		3900	420	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Fluorene	**630**	**J**	3900	460	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Hexachlorobenzene	ND		3900	530	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Hexachlorobutadiene	ND		3900	580	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Hexachlorocyclopentadiene	ND		3900	530	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Hexachloroethane	ND		3900	510	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Indeno(1,2,3-cd)pyrene	**2300**	**J**	3900	490	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Isophorone	ND		3900	840	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
N-Nitrosodi-n-propylamine	ND		3900	670	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
N-Nitrosodiphenylamine	ND		3900	3200	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Naphthalene	ND		3900	510	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20

Client Sample ID: NS-DUP-SOIL 2-12"

Date Collected: 11/07/17 00:00
Date Received: 11/07/17 16:00

Lab Sample ID: 480-127239-12

Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		3900	440	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Pentachlorophenol	ND		7700	3900	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Phenanthrene	**7500**		3900	580	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Phenol	ND		3900	600	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20
Pyrene	**8100**		3900	460	ug/Kg	☼	11/09/17 07:09	11/11/17 03:06	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*146*	*X*	*54 - 120*	*11/09/17 07:09*	*11/11/17 03:06*	*20*
2-Fluorobiphenyl	*89*		*60 - 120*	*11/09/17 07:09*	*11/11/17 03:06*	*20*
2-Fluorophenol	*68*		*52 - 120*	*11/09/17 07:09*	*11/11/17 03:06*	*20*
Nitrobenzene-d5	*80*		*53 - 120*	*11/09/17 07:09*	*11/11/17 03:06*	*20*
p-Terphenyl-d14	*101*		*65 - 121*	*11/09/17 07:09*	*11/11/17 03:06*	*20*
Phenol-d5	*84*		*54 - 120*	*11/09/17 07:09*	*11/11/17 03:06*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	☼	11/09/17 10:52	11/10/17 17:29	1
PCB-1221	ND		0.21	0.041	mg/Kg	☼	11/09/17 10:52	11/10/17 17:29	1
PCB-1232	ND		0.21	0.041	mg/Kg	☼	11/09/17 10:52	11/10/17 17:29	1
PCB-1242	ND		0.21	0.041	mg/Kg	☼	11/09/17 10:52	11/10/17 17:29	1
PCB-1248	ND		0.21	0.041	mg/Kg	☼	11/09/17 10:52	11/10/17 17:29	1
PCB-1254	ND		0.21	0.097	mg/Kg	☼	11/09/17 10:52	11/10/17 17:29	1
PCB-1260	**0.93**		0.21	0.097	mg/Kg	☼	11/09/17 10:52	11/10/17 17:29	1
PCB-1262	ND		0.21	0.097	mg/Kg	☼	11/09/17 10:52	11/10/17 17:29	1
PCB-1268	ND		0.21	0.097	mg/Kg	☼	11/09/17 10:52	11/10/17 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*122*		*60 - 154*	*11/09/17 10:52*	*11/10/17 17:29*	*1*
Tetrachloro-m-xylene	*101*		*60 - 154*	*11/09/17 10:52*	*11/10/17 17:29*	*1*
DCB Decachlorobiphenyl	*93*		*65 - 174*	*11/09/17 10:52*	*11/10/17 17:29*	*1*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*11/09/17 10:52*	*11/10/17 17:29*	*1*

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-127239-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
480-127239-1	NS-NORTH-SOIL 0-2"	98	85	66	63	98	67
480-127239-2	NS-EAST-SOIL 0-2"	0 X	56 X	37 X	47 X	63 X	41 X
480-127239-3	NS-SOUTH-SOIL 0-2"	111	91	74	93	75	67
480-127239-3 MS	NS-SOUTH-SOIL 0-2"	127 X	87	67	94	60 X	80
480-127239-3 MSD	NS-SOUTH-SOIL 0-2"	139 X	88	74	106	65	83
480-127239-4	NS-WEST-SOIL 0-2"	100	84	76	66	96	80
480-127239-5	NS-SBN-SOIL 0-2"	111	91	76	71	103	83
480-127239-6	NS-DUP-SOIL 0-2"	0 X	35 X	24 X	26 X	36 X	27 X
480-127239-7	NS-NORTH-SOIL 2-12"	0 X	31 X	22 X	20 X	31 X	23 X
480-127239-8	NS-EAST-SOIL 2-12"	149 X	83	63	64	91	75
480-127239-9	NS-SOUTH-SOIL 2-12"	111	79	57	68	70	66
480-127239-9 MS	NS-SOUTH-SOIL 2-12"	135 X	92	61	79	59 X	69
480-127239-9 MSD	NS-SOUTH-SOIL 2-12"	134 X	88	57	92	72	75
480-127239-10	NS-WEST-SOIL 2-12"	0 X	86	64	72	95	78
480-127239-11	NS-SBN-SOIL 2-12"	80	86	67	72	106	78
480-127239-12	NS-DUP-SOIL 2-12"	146 X	89	68	80	101	84
LCS 480-386401/2-A	Lab Control Sample	82	79	66	78	104	73
LCS 480-387560/2-A	Lab Control Sample	94	89	79	89	116	79
MB 480-386401/1-A	Method Blank	55	76	65	67	101	69
MB 480-387560/1-A	Method Blank	81	83	73	84	117	77

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-127239-1	NS-NORTH-SOIL 0-2"	121	106	98	125
480-127239-2	NS-EAST-SOIL 0-2"	100	84	89	99
480-127239-3	NS-SOUTH-SOIL 0-2"	95	80	76	90
480-127239-3 MS	NS-SOUTH-SOIL 0-2"	131	104	101	121
480-127239-3 MSD	NS-SOUTH-SOIL 0-2"	136	104	103	120
480-127239-4	NS-WEST-SOIL 0-2"	124	103	98	115
480-127239-5	NS-SBN-SOIL 0-2"	110	99	89	110
480-127239-6	NS-DUP-SOIL 0-2"	97	74	104	119
480-127239-7	NS-NORTH-SOIL 2-12"	118	98	97	109
480-127239-8	NS-EAST-SOIL 2-12"	113	91	93	106
480-127239-9	NS-SOUTH-SOIL 2-12"	112	96	91	112
480-127239-9 MS	NS-SOUTH-SOIL 2-12"	129	105	105	123
480-127239-9 MSD	NS-SOUTH-SOIL 2-12"	147	121	119	139
480-127239-10	NS-WEST-SOIL 2-12"	109	91	85	98

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-127239-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-127239-11	NS-SBN-SOIL 2-12"	144	123	119	135
480-127239-12	NS-DUP-SOIL 2-12"	122	101	93	109
LCS 480-386487/2-A	Lab Control Sample	143	128	125	152
MB 480-386487/1-A	Method Blank	133	116	115	137

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

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

Lab Sample ID: MB 480-386401/1-A
Matrix: Solid
Analysis Batch: 386804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	24	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
bis (2-chloroisopropyl) ether	ND		170	33	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2,4,6-Trichlorophenol	ND		170	33	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2,4-Dinitrotoluene	ND		170	34	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2-Chloronaphthalene	ND		170	27	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2-Chlorophenol	ND		170	30	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2-Methylnaphthalene	ND		170	33	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2-Methylphenol	ND		170	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2-Nitroaniline	ND		320	24	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
2-Nitrophenol	ND		170	47	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
3,3'-Dichlorobenzidine	ND		320	200	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
3-Nitroaniline	ND		320	46	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
4,6-Dinitro-2-methylphenol	ND		320	170	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
4-Bromophenyl phenyl ether	ND		170	23	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
4-Chloroaniline	ND		170	41	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
4-Chlorophenyl phenyl ether	ND		170	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
4-Methylphenol	ND		320	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
4-Nitroaniline	ND		320	87	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
4-Nitrophenol	ND		320	120	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Acenaphthene	ND		170	24	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Acenaphthylene	ND		170	21	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Acetophenone	ND		170	22	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Anthracene	ND		170	41	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Atrazine	ND		170	58	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Benzaldehyde	ND		170	130	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Benzo(a)anthracene	ND		170	17	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Benzo(a)pyrene	ND		170	24	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Benzo(b)fluoranthene	ND		170	26	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Benzo(g,h,i)perylene	ND		170	18	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Benzo(k)fluoranthene	ND		170	21	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Bis(2-chloroethoxy)methane	ND		170	35	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Bis(2-chloroethyl)ether	ND		170	21	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Butyl benzyl phthalate	ND		170	27	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Caprolactam	ND		170	50	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Carbazole	ND		170	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Chrysene	ND		170	37	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Di-n-butyl phthalate	ND		170	28	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Dibenzofuran	ND		170	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Diethyl phthalate	ND		170	21	ug/Kg		11/09/17 07:09	11/10/17 17:53	1

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

Lab Sample ID: MB 480-386401/1-A
Matrix: Solid
Analysis Batch: 386804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		170	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Fluoranthene	ND		170	18	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Fluorene	ND		170	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Hexachlorobenzene	ND		170	22	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Hexachlorobutadiene	ND		170	24	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Hexachlorocyclopentadiene	ND		170	22	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Hexachloroethane	ND		170	21	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Indeno(1,2,3-cd)pyrene	ND		170	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Isophorone	ND		170	35	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
N-Nitrosodi-n-propylamine	ND		170	28	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
N-Nitrosodiphenylamine	ND		170	130	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Naphthalene	ND		170	21	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Nitrobenzene	ND		170	19	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Pentachlorophenol	ND		320	170	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Phenanthrene	ND		170	24	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Phenol	ND		170	25	ug/Kg		11/09/17 07:09	11/10/17 17:53	1
Pyrene	ND		170	20	ug/Kg		11/09/17 07:09	11/10/17 17:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*54 - 120*	*11/09/17 07:09*	*11/10/17 17:53*	*1*
2-Fluorobiphenyl	*76*		*60 - 120*	*11/09/17 07:09*	*11/10/17 17:53*	*1*
2-Fluorophenol	*65*		*52 - 120*	*11/09/17 07:09*	*11/10/17 17:53*	*1*
Nitrobenzene-d5	*67*		*53 - 120*	*11/09/17 07:09*	*11/10/17 17:53*	*1*
p-Terphenyl-d14	*101*		*65 - 121*	*11/09/17 07:09*	*11/10/17 17:53*	*1*
Phenol-d5	*69*		*54 - 120*	*11/09/17 07:09*	*11/10/17 17:53*	*1*

Lab Sample ID: LCS 480-386401/2-A
Matrix: Solid
Analysis Batch: 386804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1620	1310		ug/Kg		81	59 - 120
bis (2-chloroisopropyl) ether	1620	1240		ug/Kg		77	44 - 120
2,4,5-Trichlorophenol	1620	1310		ug/Kg		81	59 - 126
2,4,6-Trichlorophenol	1620	1360		ug/Kg		84	59 - 123
2,4-Dichlorophenol	1620	1360		ug/Kg		84	61 - 120
2,4-Dimethylphenol	1620	1300		ug/Kg		80	59 - 120
2,4-Dinitrophenol	3230	2770		ug/Kg		86	41 - 146
2,4-Dinitrotoluene	1620	1460		ug/Kg		90	63 - 120
2,6-Dinitrotoluene	1620	1410		ug/Kg		87	66 - 120
2-Chloronaphthalene	1620	1300		ug/Kg		80	57 - 120
2-Chlorophenol	1620	1180		ug/Kg		73	53 - 120
2-Methylnaphthalene	1620	1330		ug/Kg		82	59 - 120
2-Methylphenol	1620	1230		ug/Kg		76	54 - 120
2-Nitroaniline	1620	1380		ug/Kg		86	61 - 120
2-Nitrophenol	1620	1260		ug/Kg		78	56 - 120
3,3'-Dichlorobenzidine	3230	2370		ug/Kg		73	54 - 120
3-Nitroaniline	1620	1230		ug/Kg		76	48 - 120

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

Lab Sample ID: LCS 480-386401/2-A
Matrix: Solid
Analysis Batch: 386804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,6-Dinitro-2-methylphenol	3230	2950		ug/Kg		91	49 - 122
4-Bromophenyl phenyl ether	1620	1440		ug/Kg		89	58 - 120
4-Chloro-3-methylphenol	1620	1360		ug/Kg		84	61 - 120
4-Chloroaniline	1620	1180		ug/Kg		73	38 - 120
4-Chlorophenyl phenyl ether	1620	1380		ug/Kg		85	63 - 124
4-Methylphenol	1620	1270		ug/Kg		79	55 - 120
4-Nitroaniline	1620	1380		ug/Kg		85	56 - 120
4-Nitrophenol	3230	2660		ug/Kg		82	43 - 147
Acenaphthene	1620	1330		ug/Kg		83	62 - 120
Acenaphthylene	1620	1310		ug/Kg		81	58 - 121
Acetophenone	1620	1270		ug/Kg		79	54 - 120
Anthracene	1620	1440		ug/Kg		89	62 - 120
Atrazine	3230	3030		ug/Kg		94	60 - 127
Benzaldehyde	3230	1220		ug/Kg		38	10 - 150
Benzo(a)anthracene	1620	1490		ug/Kg		92	65 - 120
Benzo(a)pyrene	1620	1520		ug/Kg		94	64 - 120
Benzo(b)fluoranthene	1620	1560		ug/Kg		97	64 - 120
Benzo(g,h,i)perylene	1620	1740		ug/Kg		108	45 - 145
Benzo(k)fluoranthene	1620	1560		ug/Kg		96	65 - 120
Bis(2-chloroethoxy)methane	1620	1280		ug/Kg		79	55 - 120
Bis(2-chloroethyl)ether	1620	1190		ug/Kg		74	45 - 120
Bis(2-ethylhexyl) phthalate	1620	1650		ug/Kg		102	61 - 133
Butyl benzyl phthalate	1620	1660		ug/Kg		103	61 - 129
Caprolactam	3230	2890		ug/Kg		89	47 - 120
Carbazole	1620	1430		ug/Kg		88	65 - 120
Chrysene	1620	1500		ug/Kg		93	64 - 120
Di-n-butyl phthalate	1620	1480		ug/Kg		92	58 - 130
Di-n-octyl phthalate	1620	1540		ug/Kg		95	57 - 133
Dibenz(a,h)anthracene	1620	1630		ug/Kg		101	54 - 132
Dibenzofuran	1620	1350		ug/Kg		84	63 - 120
Diethyl phthalate	1620	1430		ug/Kg		89	66 - 120
Dimethyl phthalate	1620	1400		ug/Kg		87	65 - 124
Fluoranthene	1620	1390		ug/Kg		86	62 - 120
Fluorene	1620	1390		ug/Kg		86	63 - 120
Hexachlorobenzene	1620	1410		ug/Kg		87	60 - 120
Hexachlorobutadiene	1620	1220		ug/Kg		76	45 - 120
Hexachlorocyclopentadiene	1620	1220		ug/Kg		76	47 - 120
Hexachloroethane	1620	1130		ug/Kg		70	41 - 120
Indeno(1,2,3-cd)pyrene	1620	1640		ug/Kg		101	56 - 134
Isophorone	1620	1300		ug/Kg		81	56 - 120
N-Nitrosodi-n-propylamine	1620	1290		ug/Kg		80	52 - 120
N-Nitrosodiphenylamine	1620	1440		ug/Kg		89	51 - 128
Naphthalene	1620	1220		ug/Kg		76	55 - 120
Nitrobenzene	1620	1250		ug/Kg		77	54 - 120
Pentachlorophenol	3230	2410		ug/Kg		75	51 - 120
Phenanthrene	1620	1460		ug/Kg		90	60 - 120
Phenol	1620	1190		ug/Kg		74	53 - 120
Pyrene	1620	1680		ug/Kg		104	61 - 133

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

Lab Sample ID: LCS 480-386401/2-A
Matrix: Solid
Analysis Batch: 386804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386401

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	*82*		*54 - 120*
2-Fluorobiphenyl	*79*		*60 - 120*
2-Fluorophenol	*66*		*52 - 120*
Nitrobenzene-d5	*78*		*53 - 120*
p-Terphenyl-d14	*104*		*65 - 121*
Phenol-d5	*73*		*54 - 120*

Lab Sample ID: MB 480-387560/1-A
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 387560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2-Chloronaphthalene	ND		170	28	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2-Chlorophenol	ND		170	31	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2-Methylnaphthalene	ND		170	34	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2-Methylphenol	ND		170	20	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2-Nitroaniline	ND		330	25	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
2-Nitrophenol	ND		170	47	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
3-Nitroaniline	ND		330	46	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
4-Chloroaniline	ND		170	41	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
4-Methylphenol	ND		330	20	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
4-Nitroaniline	ND		330	88	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
4-Nitrophenol	ND		330	120	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Acenaphthene	ND		170	25	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Acenaphthylene	ND		170	22	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Acetophenone	ND		170	23	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Anthracene	ND		170	41	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Atrazine	ND		170	58	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Benzaldehyde	ND		170	130	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Benzo(a)anthracene	ND		170	17	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Benzo(a)pyrene	ND		170	25	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Benzo(b)fluoranthene	ND		170	27	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Benzo(g,h,i)perylene	ND		170	18	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Benzo(k)fluoranthene	ND		170	22	ug/Kg		11/15/17 14:07	11/16/17 15:33	1

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

Lab Sample ID: MB 480-387560/1-A
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 387560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Caprolactam	ND		170	50	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Carbazole	ND		170	20	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Chrysene	ND		170	37	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Dibenzofuran	ND		170	20	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Diethyl phthalate	ND		170	22	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Dimethyl phthalate	ND		170	20	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Fluoranthene	ND		170	18	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Fluorene	ND		170	20	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Hexachlorobenzene	ND		170	23	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Hexachlorobutadiene	ND		170	25	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Hexachloroethane	ND		170	22	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Indeno(1,2,3-cd)pyrene	ND		170	21	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Isophorone	ND		170	36	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Naphthalene	ND		170	22	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Nitrobenzene	ND		170	19	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Pentachlorophenol	ND		330	170	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Phenanthrene	ND		170	25	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Phenol	ND		170	26	ug/Kg		11/15/17 14:07	11/16/17 15:33	1
Pyrene	ND		170	20	ug/Kg		11/15/17 14:07	11/16/17 15:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*54 - 120*	*11/15/17 14:07*	*11/16/17 15:33*	*1*
2-Fluorobiphenyl	*83*		*60 - 120*	*11/15/17 14:07*	*11/16/17 15:33*	*1*
2-Fluorophenol	*73*		*52 - 120*	*11/15/17 14:07*	*11/16/17 15:33*	*1*
Nitrobenzene-d5	*84*		*53 - 120*	*11/15/17 14:07*	*11/16/17 15:33*	*1*
p-Terphenyl-d14	*117*		*65 - 121*	*11/15/17 14:07*	*11/16/17 15:33*	*1*
Phenol-d5	*77*		*54 - 120*	*11/15/17 14:07*	*11/16/17 15:33*	*1*

Lab Sample ID: LCS 480-387560/2-A
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1630	1460		ug/Kg		89	59 - 120
bis (2-chloroisopropyl) ether	1630	893		ug/Kg		55	44 - 120
2,4,5-Trichlorophenol	1630	1360		ug/Kg		83	59 - 126
2,4,6-Trichlorophenol	1630	1430		ug/Kg		88	59 - 123
2,4-Dichlorophenol	1630	1360		ug/Kg		83	61 - 120

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

Lab Sample ID: LCS 480-387560/2-A
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	1630	1520		ug/Kg		93	59 - 120
2,4-Dinitrophenol	3260	2630		ug/Kg		81	41 - 146
2,4-Dinitrotoluene	1630	1710		ug/Kg		105	63 - 120
2,6-Dinitrotoluene	1630	1560		ug/Kg		96	66 - 120
2-Chloronaphthalene	1630	1430		ug/Kg		87	57 - 120
2-Chlorophenol	1630	1320		ug/Kg		81	53 - 120
2-Methylnaphthalene	1630	1290		ug/Kg		79	59 - 120
2-Methylphenol	1630	1440		ug/Kg		88	54 - 120
2-Nitroaniline	1630	1560		ug/Kg		95	61 - 120
2-Nitrophenol	1630	1340		ug/Kg		82	56 - 120
3,3'-Dichlorobenzidine	3260	2690		ug/Kg		82	54 - 120
3-Nitroaniline	1630	1240		ug/Kg		76	48 - 120
4,6-Dinitro-2-methylphenol	3260	3020		ug/Kg		92	49 - 122
4-Bromophenyl phenyl ether	1630	1550		ug/Kg		95	58 - 120
4-Chloro-3-methylphenol	1630	1510		ug/Kg		93	61 - 120
4-Chloroaniline	1630	1100		ug/Kg		67	38 - 120
4-Chlorophenyl phenyl ether	1630	1420		ug/Kg		87	63 - 124
4-Methylphenol	1630	1400		ug/Kg		86	55 - 120
4-Nitroaniline	1630	1320		ug/Kg		81	56 - 120
4-Nitrophenol	3260	4370		ug/Kg		134	43 - 147
Acenaphthene	1630	1470		ug/Kg		90	62 - 120
Acenaphthylene	1630	1430		ug/Kg		88	58 - 121
Acetophenone	1630	1530		ug/Kg		94	54 - 120
Anthracene	1630	1530		ug/Kg		94	62 - 120
Atrazine	3260	3530		ug/Kg		108	60 - 127
Benzaldehyde	3260	2140		ug/Kg		66	10 - 150
Benzo(a)anthracene	1630	1680		ug/Kg		103	65 - 120
Benzo(a)pyrene	1630	1620		ug/Kg		99	64 - 120
Benzo(b)fluoranthene	1630	1790		ug/Kg		110	64 - 120
Benzo(g,h,i)perylene	1630	1350		ug/Kg		83	45 - 145
Benzo(k)fluoranthene	1630	1550		ug/Kg		95	65 - 120
Bis(2-chloroethoxy)methane	1630	1270		ug/Kg		78	55 - 120
Bis(2-chloroethyl)ether	1630	1220		ug/Kg		75	45 - 120
Bis(2-ethylhexyl) phthalate	1630	2280	*	ug/Kg		139	61 - 133
Butyl benzyl phthalate	1630	2210	*	ug/Kg		135	61 - 129
Caprolactam	3260	2690		ug/Kg		82	47 - 120
Carbazole	1630	1450		ug/Kg		89	65 - 120
Chrysene	1630	1540		ug/Kg		95	64 - 120
Di-n-butyl phthalate	1630	1900		ug/Kg		117	58 - 130
Di-n-octyl phthalate	1630	2010		ug/Kg		123	57 - 133
Dibenz(a,h)anthracene	1630	1350		ug/Kg		83	54 - 132
Dibenzofuran	1630	1520		ug/Kg		93	63 - 120
Diethyl phthalate	1630	1790		ug/Kg		110	66 - 120
Dimethyl phthalate	1630	1680		ug/Kg		103	65 - 124
Fluoranthene	1630	1360		ug/Kg		83	62 - 120
Fluorene	1630	1460		ug/Kg		89	63 - 120
Hexachlorobenzene	1630	1550		ug/Kg		95	60 - 120
Hexachlorobutadiene	1630	1510		ug/Kg		93	45 - 120

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

Lab Sample ID: LCS 480-387560/2-A
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	1630	1360		ug/Kg		84	47 - 120
Hexachloroethane	1630	1490		ug/Kg		91	41 - 120
Indeno(1,2,3-cd)pyrene	1630	1350		ug/Kg		82	56 - 134
Isophorone	1630	1430		ug/Kg		88	56 - 120
N-Nitrosodi-n-propylamine	1630	1360		ug/Kg		83	52 - 120
N-Nitrosodiphenylamine	1630	1500		ug/Kg		92	51 - 128
Naphthalene	1630	1290		ug/Kg		79	55 - 120
Nitrobenzene	1630	1400		ug/Kg		86	54 - 120
Pentachlorophenol	3260	2890		ug/Kg		89	51 - 120
Phenanthrene	1630	1550		ug/Kg		95	60 - 120
Phenol	1630	1140		ug/Kg		70	53 - 120
Pyrene	1630	1850		ug/Kg		113	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*94*		*54 - 120*
2-Fluorobiphenyl	*89*		*60 - 120*
2-Fluorophenol	*79*		*52 - 120*
Nitrobenzene-d5	*89*		*53 - 120*
p-Terphenyl-d14	*116*		*65 - 121*
Phenol-d5	*79*		*54 - 120*

Lab Sample ID: 480-127239-3 MS
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: NS-SOUTH-SOIL 0-2"
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		2240	2060	J	ug/Kg	☼	92	58 - 120
bis (2-chloroisopropyl) ether	ND	F1	2240	ND	F1	ug/Kg	☼	0	31 - 120
2,4,5-Trichlorophenol	ND		2240	2320		ug/Kg	☼	103	46 - 120
2,4,6-Trichlorophenol	ND		2240	2450		ug/Kg	☼	109	41 - 123
2,4-Dichlorophenol	ND		2240	1860	J	ug/Kg	☼	83	45 - 120
2,4-Dimethylphenol	ND		2240	2140	J	ug/Kg	☼	95	52 - 120
2,4-Dinitrophenol	ND		4480	ND		ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	ND		2240	2350		ug/Kg	☼	105	63 - 125
2,6-Dinitrotoluene	ND		2240	2300		ug/Kg	☼	103	66 - 120
2-Chloronaphthalene	ND		2240	2150	J	ug/Kg	☼	96	57 - 120
2-Chlorophenol	ND		2240	1910	J	ug/Kg	☼	85	43 - 120
2-Methylnaphthalene	ND		2240	1890	J	ug/Kg	☼	84	55 - 120
2-Methylphenol	ND		2240	1380	J	ug/Kg	☼	61	48 - 120
2-Nitroaniline	ND		2240	2300	J	ug/Kg	☼	103	61 - 120
2-Nitrophenol	ND		2240	2100	J	ug/Kg	☼	94	37 - 120
3,3'-Dichlorobenzidine	ND		4480	3790	J	ug/Kg	☼	85	37 - 126
3-Nitroaniline	ND		2240	2060	J	ug/Kg	☼	92	48 - 120
4,6-Dinitro-2-methylphenol	ND		4480	4230	J	ug/Kg	☼	94	23 - 149
4-Bromophenyl phenyl ether	ND		2240	1940	J	ug/Kg	☼	87	58 - 120
4-Chloro-3-methylphenol	ND		2240	2360		ug/Kg	☼	105	49 - 125
4-Chloroaniline	ND	F2	2240	1100	J	ug/Kg	☼	49	38 - 120
4-Chlorophenyl phenyl ether	ND		2240	2190	J	ug/Kg	☼	98	63 - 124

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

Lab Sample ID: 480-127239-3 MS
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: NS-SOUTH-SOIL 0-2"
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methylphenol	ND		2240	1860	J	ug/Kg	☼	83	50 - 120
4-Nitroaniline	ND		2240	1940	J	ug/Kg	☼	87	47 - 120
4-Nitrophenol	ND	F1	4480	7060	F1	ug/Kg	☼	157	31 - 147
Acenaphthene	ND		2240	2310		ug/Kg	☼	103	60 - 120
Acenaphthylene	730	J	2240	2330		ug/Kg	☼	72	58 - 121
Acetophenone	ND		2240	2100	J	ug/Kg	☼	94	47 - 120
Anthracene	1400	J F2 F1	2240	2560	F1	ug/Kg	☼	52	62 - 120
Atrazine	ND		4480	4740		ug/Kg	☼	106	60 - 150
Benzaldehyde	ND		4480	3200		ug/Kg	☼	71	10 - 150
Benzo(a)anthracene	3600	F2 F1	2240	5070		ug/Kg	☼	66	65 - 120
Benzo(a)pyrene	3200	F2 F1	2240	4450	F1	ug/Kg	☼	57	64 - 120
Benzo(b)fluoranthene	4700	F2 F1	2240	5620	F1	ug/Kg	☼	40	64 - 120
Benzo(g,h,i)perylene	2300	F2 F1	2240	3220	F1	ug/Kg	☼	41	45 - 145
Benzo(k)fluoranthene	2500	F1	2240	3900	F1	ug/Kg	☼	64	65 - 120
Bis(2-chloroethoxy)methane	ND		2240	1810	J	ug/Kg	☼	81	52 - 120
Bis(2-chloroethyl)ether	ND		2240	1640	J	ug/Kg	☼	73	45 - 120
Bis(2-ethylhexyl) phthalate	ND	F1 *	2240	3060	F1	ug/Kg	☼	137	61 - 133
Butyl benzyl phthalate	ND	F1 *	2240	2770	F1	ug/Kg	☼	123	61 - 120
Caprolactam	ND		4480	3470		ug/Kg	☼	77	37 - 133
Carbazole	860	J	2240	2530		ug/Kg	☼	74	59 - 120
Chrysene	4000	F2 F1	2240	4830	F1	ug/Kg	☼	38	64 - 120
Di-n-butyl phthalate	ND		2240	2790		ug/Kg	☼	124	58 - 130
Di-n-octyl phthalate	ND		2240	2460		ug/Kg	☼	110	57 - 133
Dibenz(a,h)anthracene	ND	F2 F1	2240	2480		ug/Kg	☼	110	54 - 132
Dibenzofuran	540	J	2240	2400		ug/Kg	☼	83	62 - 120
Diethyl phthalate	ND	F1	2240	2600		ug/Kg	☼	116	66 - 120
Dimethyl phthalate	ND		2240	2270	J	ug/Kg	☼	101	65 - 124
Fluoranthene	7800	F2 F1	2240	7650	F1	ug/Kg	☼	-5	62 - 120
Fluorene	760	J	2240	2420		ug/Kg	☼	74	63 - 120
Hexachlorobenzene	ND		2240	1950	J	ug/Kg	☼	87	60 - 120
Hexachlorobutadiene	ND		2240	1970	J	ug/Kg	☼	88	45 - 120
Hexachlorocyclopentadiene	ND		2240	1790	J	ug/Kg	☼	80	31 - 120
Hexachloroethane	ND		2240	2130	J	ug/Kg	☼	95	21 - 120
Indeno(1,2,3-cd)pyrene	2200	F2 F1	2240	3140	F1	ug/Kg	☼	40	56 - 134
Isophorone	ND		2240	2130	J	ug/Kg	☼	95	56 - 120
N-Nitrosodi-n-propylamine	ND		2240	2140	J	ug/Kg	☼	95	46 - 120
N-Nitrosodiphenylamine	ND		2240	1960	J	ug/Kg	☼	88	20 - 128
Naphthalene	770	J	2240	2090	J	ug/Kg	☼	59	46 - 120
Nitrobenzene	ND		2240	2040	J	ug/Kg	☼	91	49 - 120
Pentachlorophenol	ND		4480	4390	J	ug/Kg	☼	98	25 - 136
Phenanthrene	5400	F2 F1	2240	5020	F1	ug/Kg	☼	-15	60 - 122
Phenol	ND		2240	1490	J	ug/Kg	☼	66	50 - 120
Pyrene	6500	F1	2240	6850	F1	ug/Kg	☼	17	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*127*	*X*	*54 - 120*
2-Fluorobiphenyl	*87*		*60 - 120*
2-Fluorophenol	*67*		*52 - 120*

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

Lab Sample ID: 480-127239-3 MS
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: NS-SOUTH-SOIL 0-2"
Prep Type: Total/NA
Prep Batch: 387560

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	94		53 - 120
p-Terphenyl-d14	60	X	65 - 121
Phenol-d5	80		54 - 120

Lab Sample ID: 480-127239-3 MSD
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: NS-SOUTH-SOIL 0-2"
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		2220	2090	J	ug/Kg	☼	94	58 - 120	1	20
bis (2-chloroisopropyl) ether	ND	F1	2220	757	J	ug/Kg	☼	34	31 - 120	NC	24
2,4,5-Trichlorophenol	ND		2220	2460		ug/Kg	☼	111	46 - 120	6	18
2,4,6-Trichlorophenol	ND		2220	2420		ug/Kg	☼	109	41 - 123	1	19
2,4-Dichlorophenol	ND		2220	1940	J	ug/Kg	☼	87	45 - 120	4	19
2,4-Dimethylphenol	ND		2220	2090	J	ug/Kg	☼	94	52 - 120	2	42
2,4-Dinitrophenol	ND		4440	ND		ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		2220	2510		ug/Kg	☼	113	63 - 125	7	20
2,6-Dinitrotoluene	ND		2220	2600		ug/Kg	☼	117	66 - 120	12	15
2-Chloronaphthalene	ND		2220	2130	J	ug/Kg	☼	96	57 - 120	1	21
2-Chlorophenol	ND		2220	1730	J	ug/Kg	☼	78	43 - 120	9	25
2-Methylnaphthalene	ND		2220	2230	J	ug/Kg	☼	100	55 - 120	16	21
2-Methylphenol	ND		2220	1570	J	ug/Kg	☼	71	48 - 120	13	27
2-Nitroaniline	ND		2220	2340	J	ug/Kg	☼	105	61 - 120	1	15
2-Nitrophenol	ND		2220	2450		ug/Kg	☼	110	37 - 120	15	18
3,3'-Dichlorobenzidine	ND		4440	4360	J	ug/Kg	☼	98	37 - 126	14	25
3-Nitroaniline	ND		2220	2040	J	ug/Kg	☼	92	48 - 120	1	19
4,6-Dinitro-2-methylphenol	ND		4440	4750		ug/Kg	☼	107	23 - 149	12	15
4-Bromophenyl phenyl ether	ND		2220	2260	J	ug/Kg	☼	102	58 - 120	15	15
4-Chloro-3-methylphenol	ND		2220	2470		ug/Kg	☼	111	49 - 125	5	27
4-Chloroaniline	ND	F2	2220	1410	J F2	ug/Kg	☼	63	38 - 120	25	22
4-Chlorophenyl phenyl ether	ND		2220	2320		ug/Kg	☼	104	63 - 124	5	16
4-Methylphenol	ND		2220	2040	J	ug/Kg	☼	92	50 - 120	9	24
4-Nitroaniline	ND		2220	2400	J	ug/Kg	☼	108	47 - 120	21	24
4-Nitrophenol	ND	F1	4440	7220	F1	ug/Kg	☼	163	31 - 147	2	25
Acenaphthene	ND		2220	2510		ug/Kg	☼	113	60 - 120	8	35
Acenaphthylene	730	J	2220	2660		ug/Kg	☼	87	58 - 121	13	18
Acetophenone	ND		2220	2160	J	ug/Kg	☼	97	47 - 120	3	20
Anthracene	1400	J F2 F1	2220	3360	F2	ug/Kg	☼	89	62 - 120	27	15
Atrazine	ND		4440	4950		ug/Kg	☼	111	60 - 150	4	20
Benzaldehyde	ND		4440	2830		ug/Kg	☼	64	10 - 150	12	20
Benzo(a)anthracene	3600	F2 F1	2220	6690	F1 F2	ug/Kg	☼	140	65 - 120	28	15
Benzo(a)pyrene	3200	F2 F1	2220	5740	F2	ug/Kg	☼	115	64 - 120	25	15
Benzo(b)fluoranthene	4700	F2 F1	2220	7300	F2	ug/Kg	☼	117	64 - 120	26	15
Benzo(g,h,i)perylene	2300	F2 F1	2220	4050	F2	ug/Kg	☼	79	45 - 145	23	15
Benzo(k)fluoranthene	2500	F1	2220	4850		ug/Kg	☼	108	65 - 120	22	22
Bis(2-chloroethoxy)methane	ND		2220	2020	J	ug/Kg	☼	91	52 - 120	11	17
Bis(2-chloroethyl)ether	ND		2220	1830	J	ug/Kg	☼	82	45 - 120	11	21
Bis(2-ethylhexyl) phthalate	ND	F1 *	2220	3110	F1	ug/Kg	☼	140	61 - 133	1	15

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

Lab Sample ID: 480-127239-3 MSD
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: NS-SOUTH-SOIL 0-2"
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Butyl benzyl phthalate	ND	F1 *	2220	2860	F1	ug/Kg	☼	129	61 - 120	3	16
Caprolactam	ND		4440	4120		ug/Kg	☼	93	37 - 133	17	20
Carbazole	860	J	2220	2610		ug/Kg	☼	79	59 - 120	3	20
Chrysene	4000	F2 F1	2220	5870	F2	ug/Kg	☼	86	64 - 120	19	15
Di-n-butyl phthalate	ND		2220	2890		ug/Kg	☼	130	58 - 130	3	15
Di-n-octyl phthalate	ND		2220	2610		ug/Kg	☼	118	57 - 133	6	16
Dibenz(a,h)anthracene	ND	F2 F1	2220	3040	F1 F2	ug/Kg	☼	137	54 - 132	20	15
Dibenzofuran	540	J	2220	2580		ug/Kg	☼	92	62 - 120	7	15
Diethyl phthalate	ND	F1	2220	2950	F1	ug/Kg	☼	133	66 - 120	13	15
Dimethyl phthalate	ND		2220	2400		ug/Kg	☼	108	65 - 124	6	15
Fluoranthene	7800	F2 F1	2220	10600	F1 F2	ug/Kg	☼	126	62 - 120	32	15
Fluorene	760	J	2220	2790		ug/Kg	☼	91	63 - 120	14	15
Hexachlorobenzene	ND		2220	1830	J	ug/Kg	☼	82	60 - 120	6	15
Hexachlorobutadiene	ND		2220	2150	J	ug/Kg	☼	97	45 - 120	8	44
Hexachlorocyclopentadiene	ND		2220	1870	J	ug/Kg	☼	84	31 - 120	4	49
Hexachloroethane	ND		2220	1900	J	ug/Kg	☼	86	21 - 120	11	46
Indeno(1,2,3-cd)pyrene	2200	F2 F1	2220	4460	F2	ug/Kg	☼	100	56 - 134	35	15
Isophorone	ND		2220	2460		ug/Kg	☼	111	56 - 120	14	17
N-Nitrosodi-n-propylamine	ND		2220	1870	J	ug/Kg	☼	84	46 - 120	13	31
N-Nitrosodiphenylamine	ND		2220	2020	J	ug/Kg	☼	91	20 - 128	3	15
Naphthalene	770	J	2220	2050	J	ug/Kg	☼	58	46 - 120	2	29
Nitrobenzene	ND		2220	2110	J	ug/Kg	☼	95	49 - 120	3	24
Pentachlorophenol	ND		4440	4660		ug/Kg	☼	105	25 - 136	6	35
Phenanthrene	5400	F2 F1	2220	6480	F2 F1	ug/Kg	☼	50	60 - 122	25	15
Phenol	ND		2220	1830	J	ug/Kg	☼	83	50 - 120	21	35
Pyrene	6500	F1	2220	9190		ug/Kg	☼	122	61 - 133	29	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*139*	*X*	*54 - 120*
2-Fluorobiphenyl	*88*		*60 - 120*
2-Fluorophenol	*74*		*52 - 120*
Nitrobenzene-d5	*106*		*53 - 120*
p-Terphenyl-d14	*65*		*65 - 121*
Phenol-d5	*83*		*54 - 120*

Lab Sample ID: 480-127239-9 MS
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: NS-SOUTH-SOIL 2-12"
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		2020	1850	J	ug/Kg	☼	91	58 - 120
bis (2-chloroisopropyl) ether	ND	F1	2020	ND	F1	ug/Kg	☼	0	31 - 120
2,4,5-Trichlorophenol	ND	F2	2020	1710	J	ug/Kg	☼	85	46 - 120
2,4,6-Trichlorophenol	ND		2020	2020	J	ug/Kg	☼	100	41 - 123
2,4-Dichlorophenol	ND		2020	1740	J	ug/Kg	☼	86	45 - 120
2,4-Dimethylphenol	ND		2020	1760	J	ug/Kg	☼	87	52 - 120
2,4-Dinitrophenol	ND		4050	ND		ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	ND		2020	2060	J	ug/Kg	☼	102	63 - 125

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

Lab Sample ID: 480-127239-9 MS
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: NS-SOUTH-SOIL 2-12"
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,6-Dinitrotoluene	ND	F2	2020	1770	J	ug/Kg	☼	87	66 - 120
2-Chloronaphthalene	ND		2020	1730	J	ug/Kg	☼	86	57 - 120
2-Chlorophenol	ND		2020	1560	J	ug/Kg	☼	77	43 - 120
2-Methylnaphthalene	ND		2020	1640	J	ug/Kg	☼	81	55 - 120
2-Methylphenol	ND		2020	1190	J	ug/Kg	☼	59	48 - 120
2-Nitroaniline	ND		2020	2020	J	ug/Kg	☼	100	61 - 120
2-Nitrophenol	ND		2020	1950	J	ug/Kg	☼	96	37 - 120
3,3'-Dichlorobenzidine	ND		4050	3670	J	ug/Kg	☼	91	37 - 126
3-Nitroaniline	ND		2020	1760	J	ug/Kg	☼	87	48 - 120
4,6-Dinitro-2-methylphenol	ND		4050	4030		ug/Kg	☼	100	23 - 149
4-Bromophenyl phenyl ether	ND		2020	1790	J	ug/Kg	☼	89	58 - 120
4-Chloro-3-methylphenol	ND		2020	2000	J	ug/Kg	☼	99	49 - 125
4-Chloroaniline	ND		2020	1200	J	ug/Kg	☼	59	38 - 120
4-Chlorophenyl phenyl ether	ND		2020	1980	J	ug/Kg	☼	98	63 - 124
4-Methylphenol	ND		2020	1810	J	ug/Kg	☼	89	50 - 120
4-Nitroaniline	ND		2020	1960	J	ug/Kg	☼	97	47 - 120
4-Nitrophenol	ND	F1	4050	5680		ug/Kg	☼	140	31 - 147
Acenaphthene	ND		2020	1930	J	ug/Kg	☼	95	60 - 120
Acenaphthylene	ND		2020	1910	J	ug/Kg	☼	95	58 - 121
Acetophenone	ND		2020	1810	J	ug/Kg	☼	90	47 - 120
Anthracene	ND		2020	2230		ug/Kg	☼	110	62 - 120
Atrazine	ND		4050	3830		ug/Kg	☼	95	60 - 150
Benzaldehyde	ND		4050	2280		ug/Kg	☼	56	10 - 150
Benzo(a)anthracene	ND	F2 F1	2020	3150	F1	ug/Kg	☼	156	65 - 120
Benzo(a)pyrene	ND	F1	2020	3070	F1	ug/Kg	☼	152	64 - 120
Benzo(b)fluoranthene	ND	F1	2020	4160	F1	ug/Kg	☼	206	64 - 120
Benzo(g,h,i)perylene	ND	F1	2020	2670		ug/Kg	☼	132	45 - 145
Benzo(k)fluoranthene	ND	F1	2020	2370		ug/Kg	☼	117	65 - 120
Bis(2-chloroethoxy)methane	ND		2020	1510	J	ug/Kg	☼	75	52 - 120
Bis(2-chloroethyl)ether	ND		2020	1430	J	ug/Kg	☼	71	45 - 120
Bis(2-ethylhexyl) phthalate	ND	F1 *	2020	2390		ug/Kg	☼	118	61 - 133
Butyl benzyl phthalate	ND	F2 F1 *	2020	2330		ug/Kg	☼	115	61 - 120
Caprolactam	ND		4050	3430		ug/Kg	☼	85	37 - 133
Carbazole	ND		2020	2030	J	ug/Kg	☼	100	59 - 120
Chrysene	ND	F2 F1	2020	3140	F1	ug/Kg	☼	155	64 - 120
Di-n-butyl phthalate	ND		2020	2420		ug/Kg	☼	119	58 - 130
Di-n-octyl phthalate	ND		2020	2310		ug/Kg	☼	114	57 - 133
Dibenz(a,h)anthracene	ND		2020	2190		ug/Kg	☼	108	54 - 132
Dibenzofuran	ND		2020	1910	J	ug/Kg	☼	95	62 - 120
Diethyl phthalate	ND		2020	2020	J	ug/Kg	☼	100	66 - 120
Dimethyl phthalate	ND		2020	1990	J	ug/Kg	☼	98	65 - 124
Fluoranthene	ND	F2 F1	2020	4440	F1	ug/Kg	☼	219	62 - 120
Fluorene	ND		2020	1960	J	ug/Kg	☼	97	63 - 120
Hexachlorobenzene	ND		2020	2000	J	ug/Kg	☼	99	60 - 120
Hexachlorobutadiene	ND		2020	1810	J	ug/Kg	☼	89	45 - 120
Hexachlorocyclopentadiene	ND		2020	1510	J	ug/Kg	☼	75	31 - 120
Hexachloroethane	ND		2020	1600	J	ug/Kg	☼	79	21 - 120
Indeno(1,2,3-cd)pyrene	ND	F1	2020	2760	F1	ug/Kg	☼	137	56 - 134

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

Lab Sample ID: 480-127239-9 MS
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: NS-SOUTH-SOIL 2-12"
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isophorone	ND		2020	1890	J	ug/Kg	☼	93	56 - 120
N-Nitrosodi-n-propylamine	ND		2020	1810	J	ug/Kg	☼	90	46 - 120
N-Nitrosodiphenylamine	ND		2020	1870	J	ug/Kg	☼	92	20 - 128
Naphthalene	ND		2020	1650	J	ug/Kg	☼	82	46 - 120
Nitrobenzene	ND		2020	1600	J	ug/Kg	☼	79	49 - 120
Pentachlorophenol	ND		4050	4240		ug/Kg	☼	105	25 - 136
Phenanthrene	ND	F1	2020	2900	F1	ug/Kg	☼	143	60 - 122
Phenol	ND		2020	1390	J	ug/Kg	☼	69	50 - 120
Pyrene	ND	F1	2020	4290	F1	ug/Kg	☼	212	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*135*	*X*	*54 - 120*
2-Fluorobiphenyl	*92*		*60 - 120*
2-Fluorophenol	*61*		*52 - 120*
Nitrobenzene-d5	*79*		*53 - 120*
p-Terphenyl-d14	*59*	*X*	*65 - 121*
Phenol-d5	*69*		*54 - 120*

Lab Sample ID: 480-127239-9 MSD
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: NS-SOUTH-SOIL 2-12"
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		2020	1810	J	ug/Kg	☼	90	58 - 120	2	20
bis (2-chloroisopropyl) ether	ND	F1	2020	ND	F1	ug/Kg	☼	0	31 - 120	NC	24
2,4,5-Trichlorophenol	ND	F2	2020	2110	F2	ug/Kg	☼	105	46 - 120	21	18
2,4,6-Trichlorophenol	ND		2020	2010	J	ug/Kg	☼	99	41 - 123	1	19
2,4-Dichlorophenol	ND		2020	1850	J	ug/Kg	☼	92	45 - 120	6	19
2,4-Dimethylphenol	ND		2020	1820	J	ug/Kg	☼	90	52 - 120	3	42
2,4-Dinitrophenol	ND		4040	ND		ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		2020	1930	J	ug/Kg	☼	96	63 - 125	6	20
2,6-Dinitrotoluene	ND	F2	2020	2160	F2	ug/Kg	☼	107	66 - 120	20	15
2-Chloronaphthalene	ND		2020	1880	J	ug/Kg	☼	93	57 - 120	8	21
2-Chlorophenol	ND		2020	1400	J	ug/Kg	☼	70	43 - 120	11	25
2-Methylnaphthalene	ND		2020	1730	J	ug/Kg	☼	86	55 - 120	5	21
2-Methylphenol	ND		2020	1260	J	ug/Kg	☼	62	48 - 120	5	27
2-Nitroaniline	ND		2020	1870	J	ug/Kg	☼	93	61 - 120	7	15
2-Nitrophenol	ND		2020	2010	J	ug/Kg	☼	100	37 - 120	3	18
3,3'-Dichlorobenzidine	ND		4040	3770	J	ug/Kg	☼	93	37 - 126	3	25
3-Nitroaniline	ND		2020	1870	J	ug/Kg	☼	93	48 - 120	6	19
4,6-Dinitro-2-methylphenol	ND		4040	4320		ug/Kg	☼	107	23 - 149	7	15
4-Bromophenyl phenyl ether	ND		2020	1960	J	ug/Kg	☼	97	58 - 120	9	15
4-Chloro-3-methylphenol	ND		2020	1980	J	ug/Kg	☼	98	49 - 125	1	27
4-Chloroaniline	ND		2020	1150	J	ug/Kg	☼	57	38 - 120	4	22
4-Chlorophenyl phenyl ether	ND		2020	1900	J	ug/Kg	☼	94	63 - 124	4	16
4-Methylphenol	ND		2020	1590	J	ug/Kg	☼	79	50 - 120	13	24
4-Nitroaniline	ND		2020	1900	J	ug/Kg	☼	94	47 - 120	3	24
4-Nitrophenol	ND	F1	4040	6020	F1	ug/Kg	☼	149	31 - 147	6	25

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

Lab Sample ID: 480-127239-9 MSD
Matrix: Solid
Analysis Batch: 387796

Client Sample ID: NS-SOUTH-SOIL 2-12"
Prep Type: Total/NA
Prep Batch: 387560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		2020	2140		ug/Kg	☼	106	60 - 120	10	35
Acenaphthylene	ND		2020	2020	J	ug/Kg	☼	100	58 - 121	5	18
Acetophenone	ND		2020	1850	J	ug/Kg	☼	92	47 - 120	2	20
Anthracene	ND		2020	2380		ug/Kg	☼	118	62 - 120	6	15
Atrazine	ND		4040	4480		ug/Kg	☼	111	60 - 150	16	20
Benzaldehyde	ND		4040	2500		ug/Kg	☼	62	10 - 150	9	20
Benzo(a)anthracene	ND	F2 F1	2020	4070	F1 F2	ug/Kg	☼	202	65 - 120	25	15
Benzo(a)pyrene	ND	F1	2020	3380	F1	ug/Kg	☼	167	64 - 120	9	15
Benzo(b)fluoranthene	ND	F1	2020	4390	F1	ug/Kg	☼	217	64 - 120	5	15
Benzo(g,h,i)perylene	ND	F1	2020	3030	F1	ug/Kg	☼	150	45 - 145	13	15
Benzo(k)fluoranthene	ND	F1	2020	2920	F1	ug/Kg	☼	145	65 - 120	21	22
Bis(2-chloroethoxy)methane	ND		2020	1640	J	ug/Kg	☼	81	52 - 120	8	17
Bis(2-chloroethyl)ether	ND		2020	1490	J	ug/Kg	☼	74	45 - 120	4	21
Bis(2-ethylhexyl) phthalate	ND	F1 *	2020	2780	F1	ug/Kg	☼	138	61 - 133	15	15
Butyl benzyl phthalate	ND	F2 F1 *	2020	2910	F1 F2	ug/Kg	☼	144	61 - 120	22	16
Caprolactam	ND		4040	3880		ug/Kg	☼	96	37 - 133	12	20
Carbazole	ND		2020	1980	J	ug/Kg	☼	98	59 - 120	3	20
Chrysene	ND	F2 F1	2020	3760	F1 F2	ug/Kg	☼	187	64 - 120	18	15
Di-n-butyl phthalate	ND		2020	2420		ug/Kg	☼	120	58 - 130	0	15
Di-n-octyl phthalate	ND		2020	2490		ug/Kg	☼	123	57 - 133	7	16
Dibenz(a,h)anthracene	ND		2020	2220		ug/Kg	☼	110	54 - 132	1	15
Dibenzofuran	ND		2020	2060	J	ug/Kg	☼	102	62 - 120	7	15
Diethyl phthalate	ND		2020	2320		ug/Kg	☼	115	66 - 120	14	15
Dimethyl phthalate	ND		2020	2130		ug/Kg	☼	106	65 - 124	7	15
Fluoranthene	ND	F2 F1	2020	5240	F1 F2	ug/Kg	☼	260	62 - 120	17	15
Fluorene	ND		2020	2040	J	ug/Kg	☼	101	63 - 120	4	15
Hexachlorobenzene	ND		2020	1940	J	ug/Kg	☼	96	60 - 120	3	15
Hexachlorobutadiene	ND		2020	2060	J	ug/Kg	☼	102	45 - 120	13	44
Hexachlorocyclopentadiene	ND		2020	1690	J	ug/Kg	☼	84	31 - 120	11	49
Hexachloroethane	ND		2020	1640	J	ug/Kg	☼	81	21 - 120	3	46
Indeno(1,2,3-cd)pyrene	ND	F1	2020	3000	F1	ug/Kg	☼	149	56 - 134	8	15
Isophorone	ND		2020	2130		ug/Kg	☼	105	56 - 120	12	17
N-Nitrosodi-n-propylamine	ND		2020	1610	J	ug/Kg	☼	80	46 - 120	12	31
N-Nitrosodiphenylamine	ND		2020	1870	J	ug/Kg	☼	93	20 - 128	0	15
Naphthalene	ND		2020	1640	J	ug/Kg	☼	81	46 - 120	1	29
Nitrobenzene	ND		2020	1920	J	ug/Kg	☼	95	49 - 120	18	24
Pentachlorophenol	ND		4040	4000		ug/Kg	☼	99	25 - 136	6	35
Phenanthrene	ND	F1	2020	3300	F1	ug/Kg	☼	163	60 - 122	13	15
Phenol	ND		2020	1330	J	ug/Kg	☼	66	50 - 120	5	35
Pyrene	ND	F1	2020	5310	F1	ug/Kg	☼	263	61 - 133	21	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*134*	*X*	*54 - 120*
2-Fluorobiphenyl	*88*		*60 - 120*
2-Fluorophenol	*57*		*52 - 120*
Nitrobenzene-d5	*92*		*53 - 120*
p-Terphenyl-d14	*72*		*65 - 121*
Phenol-d5	*75*		*54 - 120*

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

Lab Sample ID: MB 480-386487/1-A
Matrix: Solid
Analysis Batch: 386747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386487

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.040	mg/Kg		11/09/17 10:52	11/10/17 12:57	1
PCB-1221	ND		0.21	0.040	mg/Kg		11/09/17 10:52	11/10/17 12:57	1
PCB-1232	ND		0.21	0.040	mg/Kg		11/09/17 10:52	11/10/17 12:57	1
PCB-1242	ND		0.21	0.040	mg/Kg		11/09/17 10:52	11/10/17 12:57	1
PCB-1248	ND		0.21	0.040	mg/Kg		11/09/17 10:52	11/10/17 12:57	1
PCB-1254	ND		0.21	0.097	mg/Kg		11/09/17 10:52	11/10/17 12:57	1
PCB-1260	ND		0.21	0.097	mg/Kg		11/09/17 10:52	11/10/17 12:57	1
PCB-1262	ND		0.21	0.097	mg/Kg		11/09/17 10:52	11/10/17 12:57	1
PCB-1268	ND		0.21	0.097	mg/Kg		11/09/17 10:52	11/10/17 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*133*		*60 - 154*	*11/09/17 10:52*	*11/10/17 12:57*	*1*
Tetrachloro-m-xylene	*116*		*60 - 154*	*11/09/17 10:52*	*11/10/17 12:57*	*1*
DCB Decachlorobiphenyl	*115*		*65 - 174*	*11/09/17 10:52*	*11/10/17 12:57*	*1*
DCB Decachlorobiphenyl	*137*		*65 - 174*	*11/09/17 10:52*	*11/10/17 12:57*	*1*

Lab Sample ID: LCS 480-386487/2-A
Matrix: Solid
Analysis Batch: 386747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386487

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.10	2.30		mg/Kg		109	51 - 185		
PCB-1260			2.10	2.38		mg/Kg		113	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*143*		*60 - 154*
Tetrachloro-m-xylene	*128*		*60 - 154*
DCB Decachlorobiphenyl	*125*		*65 - 174*
DCB Decachlorobiphenyl	*152*		*65 - 174*

Lab Sample ID: 480-127239-3 MS
Matrix: Solid
Analysis Batch: 386747

Client Sample ID: NS-SOUTH-SOIL 0-2"
Prep Type: Total/NA
Prep Batch: 386487

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2.73	2.53		mg/Kg	☼	93	50 - 177		
PCB-1260	0.60		2.73	3.69		mg/Kg	☼	113	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*131*		*60 - 154*
Tetrachloro-m-xylene	*104*		*60 - 154*
DCB Decachlorobiphenyl	*101*		*65 - 174*
DCB Decachlorobiphenyl	*121*		*65 - 174*

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

Lab Sample ID: 480-127239-3 MSD — **Client Sample ID: NS-SOUTH-SOIL 0-2"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 386747 — **Prep Batch: 386487**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		3.21	3.42		mg/Kg	☼	107	50 - 177	30	50
PCB-1260	0.60		3.21	4.67		mg/Kg	☼	127	33 - 200	24	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*136*		*60 - 154*
Tetrachloro-m-xylene	*104*		*60 - 154*
DCB Decachlorobiphenyl	*103*		*65 - 174*
DCB Decachlorobiphenyl	*120*		*65 - 174*

Lab Sample ID: 480-127239-9 MS — **Client Sample ID: NS-SOUTH-SOIL 2-12"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 386747 — **Prep Batch: 386487**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND	F2	2.35	2.00		mg/Kg	☼	85	50 - 177
PCB-1260	0.20	J	2.35	2.53		mg/Kg	☼	99	33 - 200

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*129*		*60 - 154*
Tetrachloro-m-xylene	*105*		*60 - 154*
DCB Decachlorobiphenyl	*105*		*65 - 174*
DCB Decachlorobiphenyl	*123*		*65 - 174*

Lab Sample ID: 480-127239-9 MSD — **Client Sample ID: NS-SOUTH-SOIL 2-12"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 386747 — **Prep Batch: 386487**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F2	2.91	3.39	F4	mg/Kg	☼	116	50 - 177	52	50
PCB-1260	0.20	J	2.91	3.56		mg/Kg	☼	115	33 - 200	34	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*147*		*60 - 154*
Tetrachloro-m-xylene	*121*		*60 - 154*
DCB Decachlorobiphenyl	*119*		*65 - 174*
DCB Decachlorobiphenyl	*139*		*65 - 174*

GC/MS Semi VOA

Prep Batch: 386401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-127239-1	NS-NORTH-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-2	NS-EAST-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-4	NS-WEST-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-5	NS-SBN-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-6	NS-DUP-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-7	NS-NORTH-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-8	NS-EAST-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-10	NS-WEST-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-11	NS-SBN-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-12	NS-DUP-SOIL 2-12"	Total/NA	Solid	3550C	
MB 480-386401/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-386401/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 386804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-127239-11	NS-SBN-SOIL 2-12"	Total/NA	Solid	8270D	386401
480-127239-12	NS-DUP-SOIL 2-12"	Total/NA	Solid	8270D	386401
MB 480-386401/1-A	Method Blank	Total/NA	Solid	8270D	386401
LCS 480-386401/2-A	Lab Control Sample	Total/NA	Solid	8270D	386401

Analysis Batch: 387056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-127239-1	NS-NORTH-SOIL 0-2"	Total/NA	Solid	8270D	386401
480-127239-2	NS-EAST-SOIL 0-2"	Total/NA	Solid	8270D	386401
480-127239-4	NS-WEST-SOIL 0-2"	Total/NA	Solid	8270D	386401
480-127239-5	NS-SBN-SOIL 0-2"	Total/NA	Solid	8270D	386401
480-127239-6	NS-DUP-SOIL 0-2"	Total/NA	Solid	8270D	386401
480-127239-7	NS-NORTH-SOIL 2-12"	Total/NA	Solid	8270D	386401
480-127239-8	NS-EAST-SOIL 2-12"	Total/NA	Solid	8270D	386401
480-127239-10	NS-WEST-SOIL 2-12"	Total/NA	Solid	8270D	386401

Prep Batch: 387560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-127239-3	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-9	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	3550C	
MB 480-387560/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-387560/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-127239-3 MS	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-3 MSD	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-9 MS	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-9 MSD	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	3550C	

Analysis Batch: 387796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-127239-3	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	8270D	387560
480-127239-9	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	8270D	387560
MB 480-387560/1-A	Method Blank	Total/NA	Solid	8270D	387560
LCS 480-387560/2-A	Lab Control Sample	Total/NA	Solid	8270D	387560
480-127239-3 MS	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	8270D	387560
480-127239-3 MSD	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	8270D	387560
480-127239-9 MS	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	8270D	387560

GC/MS Semi VOA (Continued)

Analysis Batch: 387796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-127239-9 MSD	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	8270D	387560

GC Semi VOA

Prep Batch: 386487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-127239-1	NS-NORTH-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-2	NS-EAST-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-3	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-4	NS-WEST-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-5	NS-SBN-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-6	NS-DUP-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-7	NS-NORTH-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-8	NS-EAST-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-9	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-10	NS-WEST-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-11	NS-SBN-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-12	NS-DUP-SOIL 2-12"	Total/NA	Solid	3550C	
MB 480-386487/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-386487/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-127239-3 MS	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-3 MSD	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	3550C	
480-127239-9 MS	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	3550C	
480-127239-9 MSD	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	3550C	

Analysis Batch: 386747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-127239-1	NS-NORTH-SOIL 0-2"	Total/NA	Solid	8082A	386487
480-127239-2	NS-EAST-SOIL 0-2"	Total/NA	Solid	8082A	386487
480-127239-3	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	8082A	386487
480-127239-4	NS-WEST-SOIL 0-2"	Total/NA	Solid	8082A	386487
480-127239-5	NS-SBN-SOIL 0-2"	Total/NA	Solid	8082A	386487
480-127239-6	NS-DUP-SOIL 0-2"	Total/NA	Solid	8082A	386487
480-127239-7	NS-NORTH-SOIL 2-12"	Total/NA	Solid	8082A	386487
480-127239-8	NS-EAST-SOIL 2-12"	Total/NA	Solid	8082A	386487
480-127239-9	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	8082A	386487
480-127239-10	NS-WEST-SOIL 2-12"	Total/NA	Solid	8082A	386487
480-127239-11	NS-SBN-SOIL 2-12"	Total/NA	Solid	8082A	386487
480-127239-12	NS-DUP-SOIL 2-12"	Total/NA	Solid	8082A	386487
MB 480-386487/1-A	Method Blank	Total/NA	Solid	8082A	386487
LCS 480-386487/2-A	Lab Control Sample	Total/NA	Solid	8082A	386487
480-127239-3 MS	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	8082A	386487
480-127239-3 MSD	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	8082A	386487
480-127239-9 MS	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	8082A	386487
480-127239-9 MSD	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	8082A	386487

QC Association Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-127239-1

General Chemistry

Analysis Batch: 386367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-127239-1	NS-NORTH-SOIL 0-2"	Total/NA	Solid	Moisture	
480-127239-2	NS-EAST-SOIL 0-2"	Total/NA	Solid	Moisture	
480-127239-3	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	Moisture	
480-127239-4	NS-WEST-SOIL 0-2"	Total/NA	Solid	Moisture	
480-127239-5	NS-SBN-SOIL 0-2"	Total/NA	Solid	Moisture	
480-127239-6	NS-DUP-SOIL 0-2"	Total/NA	Solid	Moisture	
480-127239-7	NS-NORTH-SOIL 2-12"	Total/NA	Solid	Moisture	
480-127239-8	NS-EAST-SOIL 2-12"	Total/NA	Solid	Moisture	
480-127239-9	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	Moisture	
480-127239-10	NS-WEST-SOIL 2-12"	Total/NA	Solid	Moisture	
480-127239-11	NS-SBN-SOIL 2-12"	Total/NA	Solid	Moisture	
480-127239-12	NS-DUP-SOIL 2-12"	Total/NA	Solid	Moisture	
480-127239-3 MS	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	Moisture	
480-127239-3 MSD	NS-SOUTH-SOIL 0-2"	Total/NA	Solid	Moisture	
480-127239-9 MS	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	Moisture	
480-127239-9 MSD	NS-SOUTH-SOIL 2-12"	Total/NA	Solid	Moisture	

Client Sample ID: NS-NORTH-SOIL 0-2"
Lab Sample ID: 480-127239-1
Date Collected: 11/07/17 13:10
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-NORTH-SOIL 0-2"
Lab Sample ID: 480-127239-1
Date Collected: 11/07/17 13:10
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			386401	11/09/17 07:09	SMP	TAL BUF
Total/NA	Analysis	8270D		10	387056	11/13/17 16:36	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 15:06	JMO	TAL BUF

Client Sample ID: NS-EAST-SOIL 0-2"
Lab Sample ID: 480-127239-2
Date Collected: 11/07/17 13:50
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-EAST-SOIL 0-2"
Lab Sample ID: 480-127239-2
Date Collected: 11/07/17 13:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 66.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			386401	11/09/17 07:09	SMP	TAL BUF
Total/NA	Analysis	8270D		20	387056	11/13/17 17:03	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 15:22	JMO	TAL BUF

Client Sample ID: NS-SOUTH-SOIL 0-2"
Lab Sample ID: 480-127239-3
Date Collected: 11/07/17 14:30
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-SOUTH-SOIL 0-2"
Lab Sample ID: 480-127239-3
Date Collected: 11/07/17 14:30
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			387560	11/15/17 14:07	BEK	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-127239-1

Client Sample ID: NS-SOUTH-SOIL 0-2"

Lab Sample ID: 480-127239-3
Date Collected: 11/07/17 14:30
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		10	387796	11/16/17 18:12	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 14:34	JMO	TAL BUF

Client Sample ID: NS-WEST-SOIL 0-2"

Lab Sample ID: 480-127239-4
Date Collected: 11/07/17 14:50
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-WEST-SOIL 0-2"

Lab Sample ID: 480-127239-4
Date Collected: 11/07/17 14:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			386401	11/09/17 07:09	SMP	TAL BUF
Total/NA	Analysis	8270D		10	387056	11/13/17 17:29	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 15:38	JMO	TAL BUF

Client Sample ID: NS-SBN-SOIL 0-2"

Lab Sample ID: 480-127239-5
Date Collected: 11/07/17 15:20
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-SBN-SOIL 0-2"

Lab Sample ID: 480-127239-5
Date Collected: 11/07/17 15:20
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			386401	11/09/17 07:09	SMP	TAL BUF
Total/NA	Analysis	8270D		10	387056	11/13/17 17:56	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 15:54	JMO	TAL BUF

Client Sample ID: NS-DUP-SOIL 0-2"
Lab Sample ID: 480-127239-6
Date Collected: 11/07/17 00:00
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-DUP-SOIL 0-2"
Lab Sample ID: 480-127239-6
Date Collected: 11/07/17 00:00
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			386401	11/09/17 07:09	SMP	TAL BUF
Total/NA	Analysis	8270D		20	387056	11/13/17 18:22	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 16:10	JMO	TAL BUF

Client Sample ID: NS-NORTH-SOIL 2-12"
Lab Sample ID: 480-127239-7
Date Collected: 11/07/17 13:10
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-NORTH-SOIL 2-12"
Lab Sample ID: 480-127239-7
Date Collected: 11/07/17 13:10
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			386401	11/09/17 07:09	SMP	TAL BUF
Total/NA	Analysis	8270D		20	387056	11/13/17 18:49	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 16:25	JMO	TAL BUF

Client Sample ID: NS-EAST-SOIL 2-12"
Lab Sample ID: 480-127239-8
Date Collected: 11/07/17 13:50
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-EAST-SOIL 2-12"
Lab Sample ID: 480-127239-8
Date Collected: 11/07/17 13:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			386401	11/09/17 07:09	SMP	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-127239-1

Client Sample ID: NS-EAST-SOIL 2-12"

Lab Sample ID: 480-127239-8
Date Collected: 11/07/17 13:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		20	387056	11/13/17 19:15	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 16:41	JMO	TAL BUF

Client Sample ID: NS-SOUTH-SOIL 2-12"

Lab Sample ID: 480-127239-9
Date Collected: 11/07/17 14:30
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-SOUTH-SOIL 2-12"

Lab Sample ID: 480-127239-9
Date Collected: 11/07/17 14:30
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			387560	11/15/17 14:07	BEK	TAL BUF
Total/NA	Analysis	8270D		10	387796	11/16/17 18:38	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 14:50	JMO	TAL BUF

Client Sample ID: NS-WEST-SOIL 2-12"

Lab Sample ID: 480-127239-10
Date Collected: 11/07/17 14:50
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-WEST-SOIL 2-12"

Lab Sample ID: 480-127239-10
Date Collected: 11/07/17 14:50
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			386401	11/09/17 07:09	SMP	TAL BUF
Total/NA	Analysis	8270D		20	387056	11/13/17 19:42	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 16:57	JMO	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-127239-1

Client Sample ID: NS-SBN-SOIL 2-12"

Lab Sample ID: 480-127239-11
Date Collected: 11/07/17 15:20
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-SBN-SOIL 2-12"

Lab Sample ID: 480-127239-11
Date Collected: 11/07/17 15:20
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			386401	11/09/17 07:09	SMP	TAL BUF
Total/NA	Analysis	8270D		5	386804	11/11/17 02:40	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 17:13	JMO	TAL BUF

Client Sample ID: NS-DUP-SOIL 2-12"

Lab Sample ID: 480-127239-12
Date Collected: 11/07/17 00:00
Matrix: Solid
Date Received: 11/07/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	386367	11/08/17 19:17	MDH	TAL BUF

Client Sample ID: NS-DUP-SOIL 2-12"

Lab Sample ID: 480-127239-12
Date Collected: 11/07/17 00:00
Matrix: Solid
Date Received: 11/07/17 16:00
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			386401	11/09/17 07:09	SMP	TAL BUF
Total/NA	Analysis	8270D		20	386804	11/11/17 03:06	DMR	TAL BUF
Total/NA	Prep	3550C			386487	11/09/17 10:52	BEK	TAL BUF
Total/NA	Analysis	8082A		1	386747	11/10/17 17:29	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Method Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-127239-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C. TestAmerica Job ID: 480-127239-1
Project/Site: Nash Rd. Wheatfield #932054

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP	#	PHL	#	NBZ	#	FBP	#	TBP	#	TPHd14	#
NS-NORTH-SOIL 0-2"	480-127239-1	66		67		63		85		98		98	
NS-EAST-SOIL 0-2"	480-127239-2	37	X	41	X	47	X	56	X	0	X	63	X
NS-SOUTH-SOIL 0-2"	480-127239-3	74		67		93		91		111		75	
NS-WEST-SOIL 0-2"	480-127239-4	76		80		66		84		100		96	
NS-SBN-SOIL 0-2"	480-127239-5	76		83		71		91		111		103	
NS-DUP-SOIL 0-2"	480-127239-6	24	X	27	X	26	X	35	X	0	X	36	X
NS-NORTH-SOIL 2-12"	480-127239-7	22	X	23	X	20	X	31	X	0	X	31	X
NS-EAST-SOIL 2-12"	480-127239-8	63		75		64		83		149	X	91	
NS-SOUTH-SOIL 2-12"	480-127239-9	57		66		68		79		111		70	
NS-WEST-SOIL 2-12"	480-127239-10	64		78		72		86		0	X	95	
NS-SBN-SOIL 2-12"	480-127239-11	67		78		72		86		80		106	
NS-DUP-SOIL 2-12"	480-127239-12	68		84		80		89		146	X	101	
	MB 480-386401/1-A	65		69		67		76		55		101	
	MB 480-387560/1-A	73		77		84		83		81		117	
	LCS 480-386401/2-A	66		73		78		79		82		104	
	LCS 480-387560/2-A	79		79		89		89		94		116	
NS-SOUTH-SOIL 0-2" MS	480-127239-3 MS	67		80		94		87		127	X	60	X
NS-SOUTH-SOIL 2-12" MS	480-127239-9 MS	61		69		79		92		135	X	59	X
NS-SOUTH-SOIL 0-2" MSD	480-127239-3 MSD	74		83		106		88		139	X	65	
NS-SOUTH-SOIL 2-12" MSD	480-127239-9 MSD	57		75		92		88		134	X	72	

	QC LIMITS
2FP = 2-Fluorophenol	52-120
PHL = Phenol-d5	54-120
NBZ = Nitrobenzene-d5	53-120
FBP = 2-Fluorobiphenyl	60-120
TBP = 2,4,6-Tribromophenol	54-120
TPHd14 = p-Terphenyl-d14	65-121

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U328785.D

Lab ID: LCS 480-386401/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Biphenyl	1620	1310	81	59-120	
bis (2-chloroisopropyl) ether	1620	1240	77	44-120	
2,4,5-Trichlorophenol	1620	1310	81	59-126	
2,4,6-Trichlorophenol	1620	1360	84	59-123	
2,4-Dichlorophenol	1620	1360	84	61-120	
2,4-Dimethylphenol	1620	1300	80	59-120	
2,4-Dinitrophenol	3230	2770	86	41-146	
2,4-Dinitrotoluene	1620	1460	90	63-120	
2,6-Dinitrotoluene	1620	1410	87	66-120	
2-Chloronaphthalene	1620	1300	80	57-120	
2-Chlorophenol	1620	1180	73	53-120	
2-Methylnaphthalene	1620	1330	82	59-120	
2-Methylphenol	1620	1230	76	54-120	
2-Nitroaniline	1620	1380	86	61-120	
2-Nitrophenol	1620	1260	78	56-120	
3,3'-Dichlorobenzidine	3230	2370	73	54-120	
3-Nitroaniline	1620	1230	76	48-120	
4,6-Dinitro-2-methylphenol	3230	2950	91	49-122	
4-Bromophenyl phenyl ether	1620	1440	89	58-120	
4-Chloro-3-methylphenol	1620	1360	84	61-120	
4-Chloroaniline	1620	1180	73	38-120	
4-Chlorophenyl phenyl ether	1620	1380	85	63-124	
4-Methylphenol	1620	1270	79	55-120	
4-Nitroaniline	1620	1380	85	56-120	
4-Nitrophenol	3230	2660	82	43-147	
Acenaphthene	1620	1330	83	62-120	
Acenaphthylene	1620	1310	81	58-121	
Acetophenone	1620	1270	79	54-120	
Anthracene	1620	1440	89	62-120	
Atrazine	3230	3030	94	60-127	
Benzaldehyde	3230	1220	38	10-150	
Benzo(a)anthracene	1620	1490	92	65-120	
Benzo(a)pyrene	1620	1520	94	64-120	
Benzo(b)fluoranthene	1620	1560	97	64-120	
Benzo(g,h,i)perylene	1620	1740	108	45-145	
Benzo(k)fluoranthene	1620	1560	96	65-120	
Bis(2-chloroethoxy)methane	1620	1280	79	55-120	
Bis(2-chloroethyl)ether	1620	1190	74	45-120	
Bis(2-ethylhexyl) phthalate	1620	1650	102	61-133	
Butyl benzyl phthalate	1620	1660	103	61-129	
Caprolactam	3230	2890	89	47-120	
Carbazole	1620	1430	88	65-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U328785.D

Lab ID: LCS 480-386401/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chrysene	1620	1500	93	64-120	
Di-n-butyl phthalate	1620	1480	92	58-130	
Di-n-octyl phthalate	1620	1540	95	57-133	
Dibenz(a,h)anthracene	1620	1630	101	54-132	
Dibenzofuran	1620	1350	84	63-120	
Diethyl phthalate	1620	1430	89	66-120	
Dimethyl phthalate	1620	1400	87	65-124	
Fluoranthene	1620	1390	86	62-120	
Fluorene	1620	1390	86	63-120	
Hexachlorobenzene	1620	1410	87	60-120	
Hexachlorobutadiene	1620	1220	76	45-120	
Hexachlorocyclopentadiene	1620	1220	76	47-120	
Hexachloroethane	1620	1130	70	41-120	
Indeno(1,2,3-cd)pyrene	1620	1640	101	56-134	
Isophorone	1620	1300	81	56-120	
N-Nitrosodi-n-propylamine	1620	1290	80	52-120	
N-Nitrosodiphenylamine	1620	1440	89	51-128	
Naphthalene	1620	1220	76	55-120	
Nitrobenzene	1620	1250	77	54-120	
Pentachlorophenol	3230	2410	75	51-120	
Phenanthrene	1620	1460	90	60-120	
Phenol	1620	1190	74	53-120	
Pyrene	1620	1680	104	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X207622.D

Lab ID: LCS 480-387560/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Biphenyl	1630	1460	89	59-120	
bis (2-chloroisopropyl) ether	1630	893	55	44-120	
2,4,5-Trichlorophenol	1630	1360	83	59-126	
2,4,6-Trichlorophenol	1630	1430	88	59-123	
2,4-Dichlorophenol	1630	1360	83	61-120	
2,4-Dimethylphenol	1630	1520	93	59-120	
2,4-Dinitrophenol	3260	2630	81	41-146	
2,4-Dinitrotoluene	1630	1710	105	63-120	
2,6-Dinitrotoluene	1630	1560	96	66-120	
2-Chloronaphthalene	1630	1430	87	57-120	
2-Chlorophenol	1630	1320	81	53-120	
2-Methylnaphthalene	1630	1290	79	59-120	
2-Methylphenol	1630	1440	88	54-120	
2-Nitroaniline	1630	1560	95	61-120	
2-Nitrophenol	1630	1340	82	56-120	
3,3'-Dichlorobenzidine	3260	2690	82	54-120	
3-Nitroaniline	1630	1240	76	48-120	
4,6-Dinitro-2-methylphenol	3260	3020	92	49-122	
4-Bromophenyl phenyl ether	1630	1550	95	58-120	
4-Chloro-3-methylphenol	1630	1510	93	61-120	
4-Chloroaniline	1630	1100	67	38-120	
4-Chlorophenyl phenyl ether	1630	1420	87	63-124	
4-Methylphenol	1630	1400	86	55-120	
4-Nitroaniline	1630	1320	81	56-120	
4-Nitrophenol	3260	4370	134	43-147	
Acenaphthene	1630	1470	90	62-120	
Acenaphthylene	1630	1430	88	58-121	
Acetophenone	1630	1530	94	54-120	
Anthracene	1630	1530	94	62-120	
Atrazine	3260	3530	108	60-127	
Benzaldehyde	3260	2140	66	10-150	
Benzo(a)anthracene	1630	1680	103	65-120	
Benzo(a)pyrene	1630	1620	99	64-120	
Benzo(b)fluoranthene	1630	1790	110	64-120	
Benzo(g,h,i)perylene	1630	1350	83	45-145	
Benzo(k)fluoranthene	1630	1550	95	65-120	
Bis(2-chloroethoxy)methane	1630	1270	78	55-120	
Bis(2-chloroethyl)ether	1630	1220	75	45-120	
Bis(2-ethylhexyl) phthalate	1630	2280	139	61-133	*
Butyl benzyl phthalate	1630	2210	135	61-129	*
Caprolactam	3260	2690	82	47-120	
Carbazole	1630	1450	89	65-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X207622.D

Lab ID: LCS 480-387560/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chrysene	1630	1540	95	64-120	
Di-n-butyl phthalate	1630	1900	117	58-130	
Di-n-octyl phthalate	1630	2010	123	57-133	
Dibenz(a,h)anthracene	1630	1350	83	54-132	
Dibenzofuran	1630	1520	93	63-120	
Diethyl phthalate	1630	1790	110	66-120	
Dimethyl phthalate	1630	1680	103	65-124	
Fluoranthene	1630	1360	83	62-120	
Fluorene	1630	1460	89	63-120	
Hexachlorobenzene	1630	1550	95	60-120	
Hexachlorobutadiene	1630	1510	93	45-120	
Hexachlorocyclopentadiene	1630	1360	84	47-120	
Hexachloroethane	1630	1490	91	41-120	
Indeno(1,2,3-cd)pyrene	1630	1350	82	56-134	
Isophorone	1630	1430	88	56-120	
N-Nitrosodi-n-propylamine	1630	1360	83	52-120	
N-Nitrosodiphenylamine	1630	1500	92	51-128	
Naphthalene	1630	1290	79	55-120	
Nitrobenzene	1630	1400	86	54-120	
Pentachlorophenol	3260	2890	89	51-120	
Phenanthrene	1630	1550	95	60-120	
Phenol	1630	1140	70	53-120	
Pyrene	1630	1850	113	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X207623.D

Lab ID: 480-127239-3 MS Client ID: NS-SOUTH-SOIL 0-2" MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Biphenyl	2240	ND	2060 J	92	58-120	
bis (2-chloroisopropyl) ether	2240	ND	ND	0	31-120	F1
2,4,5-Trichlorophenol	2240	ND	2320	103	46-120	
2,4,6-Trichlorophenol	2240	ND	2450	109	41-123	
2,4-Dichlorophenol	2240	ND	1860 J	83	45-120	
2,4-Dimethylphenol	2240	ND	2140 J	95	52-120	
2,4-Dinitrophenol	4480	ND	ND	NC	41-146	
2,4-Dinitrotoluene	2240	ND	2350	105	63-125	
2,6-Dinitrotoluene	2240	ND	2300	103	66-120	
2-Chloronaphthalene	2240	ND	2150 J	96	57-120	
2-Chlorophenol	2240	ND	1910 J	85	43-120	
2-Methylnaphthalene	2240	ND	1890 J	84	55-120	
2-Methylphenol	2240	ND	1380 J	61	48-120	
2-Nitroaniline	2240	ND	2300 J	103	61-120	
2-Nitrophenol	2240	ND	2100 J	94	37-120	
3,3'-Dichlorobenzidine	4480	ND	3790 J	85	37-126	
3-Nitroaniline	2240	ND	2060 J	92	48-120	
4,6-Dinitro-2-methylphenol	4480	ND	4230 J	94	23-149	
4-Bromophenyl phenyl ether	2240	ND	1940 J	87	58-120	
4-Chloro-3-methylphenol	2240	ND	2360	105	49-125	
4-Chloroaniline	2240	ND	1100 J	49	38-120	
4-Chlorophenyl phenyl ether	2240	ND	2190 J	98	63-124	
4-Methylphenol	2240	ND	1860 J	83	50-120	
4-Nitroaniline	2240	ND	1940 J	87	47-120	
4-Nitrophenol	4480	ND	7060	157	31-147	F1
Acenaphthene	2240	ND	2310	103	60-120	
Acenaphthylene	2240	730 J	2330	72	58-121	
Acetophenone	2240	ND	2100 J	94	47-120	
Anthracene	2240	1400 J	2560	52	62-120	F1
Atrazine	4480	ND	4740	106	60-150	
Benzaldehyde	4480	ND	3200	71	10-150	
Benzo(a)anthracene	2240	3600	5070	66	65-120	
Benzo(a)pyrene	2240	3200	4450	57	64-120	F1
Benzo(b)fluoranthene	2240	4700	5620	40	64-120	F1
Benzo(g,h,i)perylene	2240	2300	3220	41	45-145	F1
Benzo(k)fluoranthene	2240	2500	3900	64	65-120	F1
Bis(2-chloroethoxy)methane	2240	ND	1810 J	81	52-120	
Bis(2-chloroethyl)ether	2240	ND	1640 J	73	45-120	
Bis(2-ethylhexyl) phthalate	2240	ND	3060	137	61-133	F1
Butyl benzyl phthalate	2240	ND	2770	123	61-120	F1
Caprolactam	4480	ND	3470	77	37-133	
Carbazole	2240	860 J	2530	74	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X207623.D

Lab ID: 480-127239-3 MS Client ID: NS-SOUTH-SOIL 0-2" MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chrysene	2240	4000	4830	38	64-120	F1
Di-n-butyl phthalate	2240	ND	2790	124	58-130	
Di-n-octyl phthalate	2240	ND	2460	110	57-133	
Dibenz(a,h)anthracene	2240	ND	2480	110	54-132	
Dibenzofuran	2240	540 J	2400	83	62-120	
Diethyl phthalate	2240	ND	2600	116	66-120	
Dimethyl phthalate	2240	ND	2270 J	101	65-124	
Fluoranthene	2240	7800	7650	-5	62-120	F1
Fluorene	2240	760 J	2420	74	63-120	
Hexachlorobenzene	2240	ND	1950 J	87	60-120	
Hexachlorobutadiene	2240	ND	1970 J	88	45-120	
Hexachlorocyclopentadiene	2240	ND	1790 J	80	31-120	
Hexachloroethane	2240	ND	2130 J	95	21-120	
Indeno(1,2,3-cd)pyrene	2240	2200	3140	40	56-134	F1
Isophorone	2240	ND	2130 J	95	56-120	
N-Nitrosodi-n-propylamine	2240	ND	2140 J	95	46-120	
N-Nitrosodiphenylamine	2240	ND	1960 J	88	20-128	
Naphthalene	2240	770 J	2090 J	59	46-120	
Nitrobenzene	2240	ND	2040 J	91	49-120	
Pentachlorophenol	4480	ND	4390 J	98	25-136	
Phenanthrene	2240	5400	5020	-15	60-122	F1
Phenol	2240	ND	1490 J	66	50-120	
Pyrene	2240	6500	6850	17	61-133	F1

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X207625.D

Lab ID: 480-127239-9 MS Client ID: NS-SOUTH-SOIL 2-12" MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Biphenyl	2020	ND	1850 J	91	58-120	
bis (2-chloroisopropyl) ether	2020	ND	ND	0	31-120	F1
2,4,5-Trichlorophenol	2020	ND	1710 J	85	46-120	
2,4,6-Trichlorophenol	2020	ND	2020 J	100	41-123	
2,4-Dichlorophenol	2020	ND	1740 J	86	45-120	
2,4-Dimethylphenol	2020	ND	1760 J	87	52-120	
2,4-Dinitrophenol	4050	ND	ND	NC	41-146	
2,4-Dinitrotoluene	2020	ND	2060 J	102	63-125	
2,6-Dinitrotoluene	2020	ND	1770 J	87	66-120	
2-Chloronaphthalene	2020	ND	1730 J	86	57-120	
2-Chlorophenol	2020	ND	1560 J	77	43-120	
2-Methylnaphthalene	2020	ND	1640 J	81	55-120	
2-Methylphenol	2020	ND	1190 J	59	48-120	
2-Nitroaniline	2020	ND	2020 J	100	61-120	
2-Nitrophenol	2020	ND	1950 J	96	37-120	
3,3'-Dichlorobenzidine	4050	ND	3670 J	91	37-126	
3-Nitroaniline	2020	ND	1760 J	87	48-120	
4,6-Dinitro-2-methylphenol	4050	ND	4030	100	23-149	
4-Bromophenyl phenyl ether	2020	ND	1790 J	89	58-120	
4-Chloro-3-methylphenol	2020	ND	2000 J	99	49-125	
4-Chloroaniline	2020	ND	1200 J	59	38-120	
4-Chlorophenyl phenyl ether	2020	ND	1980 J	98	63-124	
4-Methylphenol	2020	ND	1810 J	89	50-120	
4-Nitroaniline	2020	ND	1960 J	97	47-120	
4-Nitrophenol	4050	ND	5680	140	31-147	
Acenaphthene	2020	ND	1930 J	95	60-120	
Acenaphthylene	2020	ND	1910 J	95	58-121	
Acetophenone	2020	ND	1810 J	90	47-120	
Anthracene	2020	ND	2230	110	62-120	
Atrazine	4050	ND	3830	95	60-150	
Benzaldehyde	4050	ND	2280	56	10-150	
Benzo(a)anthracene	2020	ND	3150	156	65-120	F1
Benzo(a)pyrene	2020	ND	3070	152	64-120	F1
Benzo(b)fluoranthene	2020	ND	4160	206	64-120	F1
Benzo(g,h,i)perylene	2020	ND	2670	132	45-145	
Benzo(k)fluoranthene	2020	ND	2370	117	65-120	
Bis(2-chloroethoxy)methane	2020	ND	1510 J	75	52-120	
Bis(2-chloroethyl)ether	2020	ND	1430 J	71	45-120	
Bis(2-ethylhexyl) phthalate	2020	ND	2390	118	61-133	
Butyl benzyl phthalate	2020	ND	2330	115	61-120	
Caprolactam	4050	ND	3430	85	37-133	
Carbazole	2020	ND	2030 J	100	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X207625.D

Lab ID: 480-127239-9 MS Client ID: NS-SOUTH-SOIL 2-12" MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chrysene	2020	ND	3140	155	64-120	F1
Di-n-butyl phthalate	2020	ND	2420	119	58-130	
Di-n-octyl phthalate	2020	ND	2310	114	57-133	
Dibenz(a,h)anthracene	2020	ND	2190	108	54-132	
Dibenzofuran	2020	ND	1910 J	95	62-120	
Diethyl phthalate	2020	ND	2020 J	100	66-120	
Dimethyl phthalate	2020	ND	1990 J	98	65-124	
Fluoranthene	2020	ND	4440	219	62-120	F1
Fluorene	2020	ND	1960 J	97	63-120	
Hexachlorobenzene	2020	ND	2000 J	99	60-120	
Hexachlorobutadiene	2020	ND	1810 J	89	45-120	
Hexachlorocyclopentadiene	2020	ND	1510 J	75	31-120	
Hexachloroethane	2020	ND	1600 J	79	21-120	
Indeno(1,2,3-cd)pyrene	2020	ND	2760	137	56-134	F1
Isophorone	2020	ND	1890 J	93	56-120	
N-Nitrosodi-n-propylamine	2020	ND	1810 J	90	46-120	
N-Nitrosodiphenylamine	2020	ND	1870 J	92	20-128	
Naphthalene	2020	ND	1650 J	82	46-120	
Nitrobenzene	2020	ND	1600 J	79	49-120	
Pentachlorophenol	4050	ND	4240	105	25-136	
Phenanthrene	2020	ND	2900	143	60-122	F1
Phenol	2020	ND	1390 J	69	50-120	
Pyrene	2020	ND	4290	212	61-133	F1

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X207624.D

Lab ID: 480-127239-3 MSD Client ID: NS-SOUTH-SOIL 0-2" MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Biphenyl	2220	2090 J	94	1	20	58-120	
bis (2-chloroisopropyl) ether	2220	757 J	34	NC	24	31-120	
2,4,5-Trichlorophenol	2220	2460	111	6	18	46-120	
2,4,6-Trichlorophenol	2220	2420	109	1	19	41-123	
2,4-Dichlorophenol	2220	1940 J	87	4	19	45-120	
2,4-Dimethylphenol	2220	2090 J	94	2	42	52-120	
2,4-Dinitrophenol	4440	ND	NC	NC	22	41-146	
2,4-Dinitrotoluene	2220	2510	113	7	20	63-125	
2,6-Dinitrotoluene	2220	2600	117	12	15	66-120	
2-Chloronaphthalene	2220	2130 J	96	1	21	57-120	
2-Chlorophenol	2220	1730 J	78	9	25	43-120	
2-Methylnaphthalene	2220	2230 J	100	16	21	55-120	
2-Methylphenol	2220	1570 J	71	13	27	48-120	
2-Nitroaniline	2220	2340 J	105	1	15	61-120	
2-Nitrophenol	2220	2450	110	15	18	37-120	
3,3'-Dichlorobenzidine	4440	4360 J	98	14	25	37-126	
3-Nitroaniline	2220	2040 J	92	1	19	48-120	
4,6-Dinitro-2-methylphenol	4440	4750	107	12	15	23-149	
4-Bromophenyl phenyl ether	2220	2260 J	102	15	15	58-120	
4-Chloro-3-methylphenol	2220	2470	111	5	27	49-125	
4-Chloroaniline	2220	1410 J	63	25	22	38-120	F2
4-Chlorophenyl phenyl ether	2220	2320	104	5	16	63-124	
4-Methylphenol	2220	2040 J	92	9	24	50-120	
4-Nitroaniline	2220	2400 J	108	21	24	47-120	
4-Nitrophenol	4440	7220	163	2	25	31-147	F1
Acenaphthene	2220	2510	113	8	35	60-120	
Acenaphthylene	2220	2660	87	13	18	58-121	
Acetophenone	2220	2160 J	97	3	20	47-120	
Anthracene	2220	3360	89	27	15	62-120	F2
Atrazine	4440	4950	111	4	20	60-150	
Benzaldehyde	4440	2830	64	12	20	10-150	
Benzo(a)anthracene	2220	6690	140	28	15	65-120	F1 F2
Benzo(a)pyrene	2220	5740	115	25	15	64-120	F2
Benzo(b)fluoranthene	2220	7300	117	26	15	64-120	F2
Benzo(g,h,i)perylene	2220	4050	79	23	15	45-145	F2
Benzo(k)fluoranthene	2220	4850	108	22	22	65-120	
Bis(2-chloroethoxy)methane	2220	2020 J	91	11	17	52-120	
Bis(2-chloroethyl)ether	2220	1830 J	82	11	21	45-120	
Bis(2-ethylhexyl) phthalate	2220	3110	140	1	15	61-133	F1
Butyl benzyl phthalate	2220	2860	129	3	16	61-120	F1
Caprolactam	4440	4120	93	17	20	37-133	
Carbazole	2220	2610	79	3	20	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X207624.D

Lab ID: 480-127239-3 MSD Client ID: NS-SOUTH-SOIL 0-2" MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chrysene	2220	5870	86	19	15	64-120	F2
Di-n-butyl phthalate	2220	2890	130	3	15	58-130	
Di-n-octyl phthalate	2220	2610	118	6	16	57-133	
Dibenz(a,h)anthracene	2220	3040	137	20	15	54-132	F1 F2
Dibenzofuran	2220	2580	92	7	15	62-120	
Diethyl phthalate	2220	2950	133	13	15	66-120	F1
Dimethyl phthalate	2220	2400	108	6	15	65-124	
Fluoranthene	2220	10600	126	32	15	62-120	F1 F2
Fluorene	2220	2790	91	14	15	63-120	
Hexachlorobenzene	2220	1830 J	82	6	15	60-120	
Hexachlorobutadiene	2220	2150 J	97	8	44	45-120	
Hexachlorocyclopentadiene	2220	1870 J	84	4	49	31-120	
Hexachloroethane	2220	1900 J	86	11	46	21-120	
Indeno(1,2,3-cd)pyrene	2220	4460	100	35	15	56-134	F2
Isophorone	2220	2460	111	14	17	56-120	
N-Nitrosodi-n-propylamine	2220	1870 J	84	13	31	46-120	
N-Nitrosodiphenylamine	2220	2020 J	91	3	15	20-128	
Naphthalene	2220	2050 J	58	2	29	46-120	
Nitrobenzene	2220	2110 J	95	3	24	49-120	
Pentachlorophenol	4440	4660	105	6	35	25-136	
Phenanthrene	2220	6480	50	25	15	60-122	F2 F1
Phenol	2220	1830 J	83	21	35	50-120	
Pyrene	2220	9190	122	29	35	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X207626.D

Lab ID: 480-127239-9 MSD Client ID: NS-SOUTH-SOIL 2-12" MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Biphenyl	2020	1810 J	90	2	20	58-120	
bis (2-chloroisopropyl) ether	2020	ND	0	NC	24	31-120	F1
2,4,5-Trichlorophenol	2020	2110	105	21	18	46-120	F2
2,4,6-Trichlorophenol	2020	2010 J	99	1	19	41-123	
2,4-Dichlorophenol	2020	1850 J	92	6	19	45-120	
2,4-Dimethylphenol	2020	1820 J	90	3	42	52-120	
2,4-Dinitrophenol	4040	ND	NC	NC	22	41-146	
2,4-Dinitrotoluene	2020	1930 J	96	6	20	63-125	
2,6-Dinitrotoluene	2020	2160	107	20	15	66-120	F2
2-Chloronaphthalene	2020	1880 J	93	8	21	57-120	
2-Chlorophenol	2020	1400 J	70	11	25	43-120	
2-Methylnaphthalene	2020	1730 J	86	5	21	55-120	
2-Methylphenol	2020	1260 J	62	5	27	48-120	
2-Nitroaniline	2020	1870 J	93	7	15	61-120	
2-Nitrophenol	2020	2010 J	100	3	18	37-120	
3,3'-Dichlorobenzidine	4040	3770 J	93	3	25	37-126	
3-Nitroaniline	2020	1870 J	93	6	19	48-120	
4,6-Dinitro-2-methylphenol	4040	4320	107	7	15	23-149	
4-Bromophenyl phenyl ether	2020	1960 J	97	9	15	58-120	
4-Chloro-3-methylphenol	2020	1980 J	98	1	27	49-125	
4-Chloroaniline	2020	1150 J	57	4	22	38-120	
4-Chlorophenyl phenyl ether	2020	1900 J	94	4	16	63-124	
4-Methylphenol	2020	1590 J	79	13	24	50-120	
4-Nitroaniline	2020	1900 J	94	3	24	47-120	
4-Nitrophenol	4040	6020	149	6	25	31-147	F1
Acenaphthene	2020	2140	106	10	35	60-120	
Acenaphthylene	2020	2020 J	100	5	18	58-121	
Acetophenone	2020	1850 J	92	2	20	47-120	
Anthracene	2020	2380	118	6	15	62-120	
Atrazine	4040	4480	111	16	20	60-150	
Benzaldehyde	4040	2500	62	9	20	10-150	
Benzo(a)anthracene	2020	4070	202	25	15	65-120	F1 F2
Benzo(a)pyrene	2020	3380	167	9	15	64-120	F1
Benzo(b)fluoranthene	2020	4390	217	5	15	64-120	F1
Benzo(g,h,i)perylene	2020	3030	150	13	15	45-145	F1
Benzo(k)fluoranthene	2020	2920	145	21	22	65-120	F1
Bis(2-chloroethoxy)methane	2020	1640 J	81	8	17	52-120	
Bis(2-chloroethyl)ether	2020	1490 J	74	4	21	45-120	
Bis(2-ethylhexyl) phthalate	2020	2780	138	15	15	61-133	F1
Butyl benzyl phthalate	2020	2910	144	22	16	61-120	F1 F2
Caprolactam	4040	3880	96	12	20	37-133	
Carbazole	2020	1980 J	98	3	20	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X207626.D

Lab ID: 480-127239-9 MSD Client ID: NS-SOUTH-SOIL 2-12" MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chrysene	2020	3760	187	18	15	64-120	F1 F2
Di-n-butyl phthalate	2020	2420	120	0	15	58-130	
Di-n-octyl phthalate	2020	2490	123	7	16	57-133	
Dibenz(a,h)anthracene	2020	2220	110	1	15	54-132	
Dibenzofuran	2020	2060 J	102	7	15	62-120	
Diethyl phthalate	2020	2320	115	14	15	66-120	
Dimethyl phthalate	2020	2130	106	7	15	65-124	
Fluoranthene	2020	5240	260	17	15	62-120	F1 F2
Fluorene	2020	2040 J	101	4	15	63-120	
Hexachlorobenzene	2020	1940 J	96	3	15	60-120	
Hexachlorobutadiene	2020	2060 J	102	13	44	45-120	
Hexachlorocyclopentadiene	2020	1690 J	84	11	49	31-120	
Hexachloroethane	2020	1640 J	81	3	46	21-120	
Indeno(1,2,3-cd)pyrene	2020	3000	149	8	15	56-134	F1
Isophorone	2020	2130	105	12	17	56-120	
N-Nitrosodi-n-propylamine	2020	1610 J	80	12	31	46-120	
N-Nitrosodiphenylamine	2020	1870 J	93	0	15	20-128	
Naphthalene	2020	1640 J	81	1	29	46-120	
Nitrobenzene	2020	1920 J	95	18	24	49-120	
Pentachlorophenol	4040	4000	99	6	35	25-136	
Phenanthrene	2020	3300	163	13	15	60-122	F1
Phenol	2020	1330 J	66	5	35	50-120	
Pyrene	2020	5310	263	21	35	61-133	F1

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab File ID: U328784.D Lab Sample ID: MB 480-386401/1-A

Matrix: Solid Date Extracted: 11/09/2017 07:09

Instrument ID: HP5973U Date Analyzed: 11/10/2017 17:53

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-386401/2-A	U328785.D	11/10/2017 18:20
NS-SBN-SOIL 2-12"	480-127239-11	U328804.D	11/11/2017 02:40
NS-DUP-SOIL 2-12"	480-127239-12	U328805.D	11/11/2017 03:06
NS-NORTH-SOIL 0-2"	480-127239-1	U328817.D	11/13/2017 16:36
NS-EAST-SOIL 0-2"	480-127239-2	U328818.D	11/13/2017 17:03
NS-WEST-SOIL 0-2"	480-127239-4	U328819.D	11/13/2017 17:29
NS-SBN-SOIL 0-2"	480-127239-5	U328820.D	11/13/2017 17:56
NS-DUP-SOIL 0-2"	480-127239-6	U328821.D	11/13/2017 18:22
NS-NORTH-SOIL 2-12"	480-127239-7	U328822.D	11/13/2017 18:49
NS-EAST-SOIL 2-12"	480-127239-8	U328823.D	11/13/2017 19:15
NS-WEST-SOIL 2-12"	480-127239-10	U328824.D	11/13/2017 19:42

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab File ID: X207621.D Lab Sample ID: MB 480-387560/1-A

Matrix: Solid Date Extracted: 11/15/2017 14:07

Instrument ID: HP5973X Date Analyzed: 11/16/2017 15:33

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-387560/2-A	X207622.D	11/16/2017 16:00
NS-SOUTH-SOIL 0-2" MS	480-127239-3 MS	X207623.D	11/16/2017 16:26
NS-SOUTH-SOIL 0-2" MSD	480-127239-3 MSD	X207624.D	11/16/2017 16:53
NS-SOUTH-SOIL 2-12" MS	480-127239-9 MS	X207625.D	11/16/2017 17:19
NS-SOUTH-SOIL 2-12" MSD	480-127239-9 MSD	X207626.D	11/16/2017 17:45
NS-SOUTH-SOIL 0-2"	480-127239-3	X207627.D	11/16/2017 18:12
NS-SOUTH-SOIL 2-12"	480-127239-9	X207628.D	11/16/2017 18:38

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab File ID: U328552.D DFTPP Injection Date: 10/29/2017

Instrument ID: HP5973U DFTPP Injection Time: 17:24

Analysis Batch No.: 384467

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	51.5	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	39.8	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	43.8	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	28.7	
365	Greater than 1% of mass 198	3.6	
441	present but less than 24% of mass 442	15.2	(15.5) 2
442	Greater than 50% of mass 198	98.3	
443	15-24% of mass 442	19.5	(19.9) 2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-384467/3	U328553.D	10/29/2017	17:50
	IC 480-384467/4	U328554.D	10/29/2017	18:17
	ICIS 480-384467/5	U328555.D	10/29/2017	18:44
	IC 480-384467/6	U328556.D	10/29/2017	19:11
	IC 480-384467/7	U328557.D	10/29/2017	19:37
	IC 480-384467/8	U328558.D	10/29/2017	20:04

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab File ID: U328779.D DFTPP Injection Date: 11/10/2017

Instrument ID: HP5973U DFTPP Injection Time: 16:33

Analysis Batch No.: 386804

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	57.7	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	42.0	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	42.9	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	27.7	
365	Greater than 1% of mass 198	4.0	
441	present but less than 24% of mass 442	14.4	(16.6) 2
442	Greater than 50% of mass 198	86.5	
443	15-24% of mass 442	17.0	(19.6) 2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-386804/4	U328780.D	11/10/2017	16:59
	MB 480-386401/1-A	U328784.D	11/10/2017	17:53
	LCS 480-386401/2-A	U328785.D	11/10/2017	18:20
NS-SBN-SOIL 2-12"	480-127239-11	U328804.D	11/11/2017	02:40
NS-DUP-SOIL 2-12"	480-127239-12	U328805.D	11/11/2017	03:06

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab File ID: U328814.D DFTPP Injection Date: 11/13/2017

Instrument ID: HP5973U DFTPP Injection Time: 15:16

Analysis Batch No.: 387056

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	51.5	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	38.6	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	41.6	
197	Less than 2% of mass 198	0.3	
198	Base peak	100.0	
199	5-9% of mass 198	7.1	
275	10-60% of Base Peak	28.8	
365	Greater than 1% of mass 198	3.6	
441	present but less than 24% of mass 442	14.6	(16.1) 2
442	Greater than 50% of mass 198	90.6	
443	15-24% of mass 442	17.6	(19.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-387056/4	U328815.D	11/13/2017	15:43
NS-NORTH-SOIL 0-2"	480-127239-1	U328817.D	11/13/2017	16:36
NS-EAST-SOIL 0-2"	480-127239-2	U328818.D	11/13/2017	17:03
NS-WEST-SOIL 0-2"	480-127239-4	U328819.D	11/13/2017	17:29
NS-SBN-SOIL 0-2"	480-127239-5	U328820.D	11/13/2017	17:56
NS-DUP-SOIL 0-2"	480-127239-6	U328821.D	11/13/2017	18:22
NS-NORTH-SOIL 2-12"	480-127239-7	U328822.D	11/13/2017	18:49
NS-EAST-SOIL 2-12"	480-127239-8	U328823.D	11/13/2017	19:15
NS-WEST-SOIL 2-12"	480-127239-10	U328824.D	11/13/2017	19:42

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab File ID: X20654.D DFTPP Injection Date: 10/19/2017

Instrument ID: HP5973X DFTPP Injection Time: 12:15

Analysis Batch No.: 382697

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	31.3	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	39.1	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	44.8	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.5	
275	10-60% of Base Peak	29.3	
365	Greater than 1% of mass 198	3.2	
441	present but less than 24% of mass 442	10.1	(15.0) 2
442	Greater than 50% of mass 198	67.6	
443	15-24% of mass 442	12.4	(18.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-382697/3	X20655.D	10/19/2017	12:41
	IC 480-382697/4	X20656.D	10/19/2017	13:08
	ICIS 480-382697/5	X20657.D	10/19/2017	13:34
	IC 480-382697/6	X20658.D	10/19/2017	14:00
	IC 480-382697/7	X20659.D	10/19/2017	14:27
	IC 480-382697/8	X20660.D	10/19/2017	14:53

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab File ID: X207614.D DFTPP Injection Date: 11/16/2017

Instrument ID: HP5973X DFTPP Injection Time: 12:28

Analysis Batch No.: 387796

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	35.6	
68	Less than 2% of mass 69	0.4	(1.0) 1
69	Mass 69 Relative abundance	43.3	
70	Less than 2% of mass 69	0.4	(0.9) 1
127	10-80% of Base Peak	57.9	
197	Less than 2% of mass 198	0.7	
198	Base peak	100.0	
199	5-9% of mass 198	6.0	
275	10-60% of Base Peak	29.2	
365	Greater than 1% of mass 198	4.5	
441	present but less than 24% of mass 442	8.4	(15.7) 2
442	Greater than 50% of mass 198	53.6	
443	15-24% of mass 442	9.3	(17.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-387796/4	X207615.D	11/16/2017	12:54
	MB 480-387560/1-A	X207621.D	11/16/2017	15:33
	LCS 480-387560/2-A	X207622.D	11/16/2017	16:00
NS-SOUTH-SOIL 0-2" MS	480-127239-3 MS	X207623.D	11/16/2017	16:26
NS-SOUTH-SOIL 0-2" MSD	480-127239-3 MSD	X207624.D	11/16/2017	16:53
NS-SOUTH-SOIL 2-12" MS	480-127239-9 MS	X207625.D	11/16/2017	17:19
NS-SOUTH-SOIL 2-12" MSD	480-127239-9 MSD	X207626.D	11/16/2017	17:45
NS-SOUTH-SOIL 0-2"	480-127239-3	X207627.D	11/16/2017	18:12
NS-SOUTH-SOIL 2-12"	480-127239-9	X207628.D	11/16/2017	18:38

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: ICIS 480-384467/5 Date Analyzed: 10/29/2017 18:44

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U328555.D Heated Purge: (Y/N) N

Calibration ID: 31851

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		64431	7.23	232638	8.74	117016	10.77
UPPER LIMIT		128862	7.73	465276	9.24	234032	11.27
LOWER LIMIT		32216	6.73	116319	8.24	58508	10.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-386804/4		76286	7.23	295060	8.74	154807	10.77
CCVIS 480-387056/4		84475	7.23	304183	8.74	156223	10.77

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: ICIS 480-384467/5 Date Analyzed: 10/29/2017 18:44

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U328555.D Heated Purge: (Y/N) N

Calibration ID: 31851

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		226862	12.27	348102	14.72	400640	16.50
UPPER LIMIT		453724	12.77	696204	15.22	801280	17.00
LOWER LIMIT		113431	11.77	174051	14.22	200320	16.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-386804/4		304133	12.26	376967	14.71	356609	16.49
CCVIS 480-387056/4		286705	12.26	334268	14.71	327022	16.49

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: CCVIS 480-386804/4 Date Analyzed: 11/10/2017 16:59

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U328780.D Heated Purge: (Y/N) N

Calibration ID: 31855

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		76286	7.23	295060	8.74	154807	10.77
UPPER LIMIT		152572	7.73	590120	9.24	309614	11.27
LOWER LIMIT		38143	6.73	147530	8.24	77404	10.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-386401/1-A		87591	7.23	318902	8.73	163382	10.76
LCS 480-386401/2-A		82722	7.23	304883	8.74	160536	10.77
480-127239-11	NS-SBN-SOIL 2-12"	77249	7.23	288083	8.73	150315	10.76
480-127239-12	NS-DUP-SOIL 2-12"	73282	7.23	267527	8.73	139898	10.76

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10
Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: CCVIS 480-386804/4 Date Analyzed: 11/10/2017 16:59

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U328780.D Heated Purge: (Y/N) N

Calibration ID: 31855

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		304133	12.26	376967	14.71	356609	16.49
UPPER LIMIT		608266	12.76	753934	15.21	713218	16.99
LOWER LIMIT		152067	11.76	188484	14.21	178305	15.99
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-386401/1-A		315469	12.26	383877	14.71	353045	16.49
LCS 480-386401/2-A		316675	12.26	397597	14.71	371112	16.49
480-127239-11	NS-SBN-SOIL 2-12"	296018	12.26	395594	14.71	470588	16.49
480-127239-12	NS-DUP-SOIL 2-12"	276273	12.26	394369	14.71	473708	16.49

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: CCVIS 480-387056/4 Date Analyzed: 11/13/2017 15:43

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U328815.D Heated Purge: (Y/N) N

Calibration ID: 31855

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		84475	7.23	304183	8.74	156223	10.77
UPPER LIMIT		168950	7.73	608366	9.24	312446	11.27
LOWER LIMIT		42238	6.73	152092	8.24	78112	10.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-127239-1	NS-NORTH-SOIL 0-2"	96876	7.23	348825	8.74	178428	10.76
480-127239-2	NS-EAST-SOIL 0-2"	97733	7.23	353540	8.73	179295	10.76
480-127239-4	NS-WEST-SOIL 0-2"	93528	7.23	341258	8.74	179334	10.76
480-127239-5	NS-SBN-SOIL 0-2"	92154	7.23	342248	8.73	177306	10.77
480-127239-6	NS-DUP-SOIL 0-2"	92842	7.23	333895	8.73	170145	10.76
480-127239-7	NS-NORTH-SOIL 2-12"	94318	7.23	333807	8.73	168680	10.77
480-127239-8	NS-EAST-SOIL 2-12"	93643	7.23	335336	8.74	170653	10.76
480-127239-10	NS-WEST-SOIL 2-12"	93238	7.23	341101	8.73	173923	10.76

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10
Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: CCVIS 480-387056/4 Date Analyzed: 11/13/2017 15:43

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U328815.D Heated Purge: (Y/N) N

Calibration ID: 31855

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		286705	12.26	334268	14.71	327022	16.49
UPPER LIMIT		573410	12.76	668536	15.21	654044	16.99
LOWER LIMIT		143353	11.76	167134	14.21	163511	15.99
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-127239-1	NS-NORTH-SOIL 0-2"	346856	12.26	432807	14.71	460954	16.49
480-127239-2	NS-EAST-SOIL 0-2"	347787	12.26	452118	14.71	501882	16.49
480-127239-4	NS-WEST-SOIL 0-2"	346311	12.26	458636	14.71	506943	16.49
480-127239-5	NS-SBN-SOIL 0-2"	351273	12.26	463473	14.71	520663	16.49
480-127239-6	NS-DUP-SOIL 0-2"	326649	12.26	472018	14.71	545955	16.49
480-127239-7	NS-NORTH-SOIL 2-12"	321252	12.26	450128	14.71	557477	16.49
480-127239-8	NS-EAST-SOIL 2-12"	327901	12.26	482632	14.71	600143	16.49
480-127239-10	NS-WEST-SOIL 2-12"	334708	12.26	468267	14.71	561497	16.49

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: ICIS 480-382697/5 Date Analyzed: 10/19/2017 13:34

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X20657.D Heated Purge: (Y/N) N

Calibration ID: 31776

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		215716	5.40	689170	6.95	379208	9.01
UPPER LIMIT		431432	5.90	1378340	7.45	758416	9.51
LOWER LIMIT		107858	4.90	344585	6.45	189604	8.51
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-387796/4		144901	5.01	486670	6.60	247811	8.67

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: ICIS 480-382697/5 Date Analyzed: 10/19/2017 13:34

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X20657.D Heated Purge: (Y/N) N

Calibration ID: 31776

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		765996	10.66	807575	13.05	755051	14.19
UPPER LIMIT		1531992	11.16	1615150	13.55	1510102	14.69
LOWER LIMIT		382998	10.16	403788	12.55	377526	13.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-387796/4		506934	10.34	536414	12.76	467288	13.88

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: CCVIS 480-387796/4 Date Analyzed: 11/16/2017 12:54

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X207615.D Heated Purge: (Y/N) N

Calibration ID: 31776

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		144901	5.01	486670	6.60	247811	8.67
UPPER LIMIT		289802	5.51	973340	7.10	495622	9.17
LOWER LIMIT		72451	4.51	243335	6.10	123906	8.17
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-387560/1-A		223270	5.03	783657	6.62	382680	8.68
LCS 480-387560/2-A		270969	5.04	914400	6.62	454738	8.68
480-127239-3 MS	NS-SOUTH-SOIL 0-2" MS	146389	5.04	495545	6.62	250169	8.68
480-127239-3 MSD	NS-SOUTH-SOIL 0-2" MSD	142694	5.04	475589	6.62	242839	8.68
480-127239-9 MS	NS-SOUTH-SOIL 2-12" MS	146221	5.04	500897	6.62	259023	8.68
480-127239-9 MSD	NS-SOUTH-SOIL 2-12" MSD	170529	5.04	526294	6.62	272182	8.68
480-127239-3	NS-SOUTH-SOIL 0-2"	162686	5.04	544936	6.62	269945	8.68
480-127239-9	NS-SOUTH-SOIL 2-12"	153403	5.04	509545	6.62	259698	8.68

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
NPT = Naphthalene-d8
Area Limit = 50%-200% of internal standard area
ANT = Acenaphthene-d10
RT Limit = ± 0.5 minutes of internal standard RT
ANT = Acenaphthene-d10

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: CCVIS 480-387796/4 Date Analyzed: 11/16/2017 12:54

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X207615.D Heated Purge: (Y/N) N

Calibration ID: 31776

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		506934	10.34	536414	12.76	467288	13.88
UPPER LIMIT		1013868	10.84	1072828	13.26	934576	14.38
LOWER LIMIT		253467	9.84	268207	12.26	233644	13.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-387560/1-A		758224	10.35	647948	12.77	432685	13.89
LCS 480-387560/2-A		881415	10.35	681891	12.77	485999	13.89
480-127239-3 MS	NS-SOUTH-SOIL 0-2" MS	521853	10.35	520047	12.77	456301	13.89
480-127239-3 MSD	NS-SOUTH-SOIL 0-2" MSD	512454	10.35	522003	12.77	470695	13.89
480-127239-9 MS	NS-SOUTH-SOIL 2-12" MS	509075	10.35	505133	12.77	453029	13.89
480-127239-9 MSD	NS-SOUTH-SOIL 2-12" MSD	555177	10.35	536206	12.77	496695	13.89
480-127239-3	NS-SOUTH-SOIL 0-2"	556562	10.35	539409	12.77	502016	13.89
480-127239-9	NS-SOUTH-SOIL 2-12"	532456	10.35	532867	12.77	476242	13.89

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
CRY = Chrysene-d12
CRY = Chrysene-d12
Area Limit = 50%-200% of internal standard area
PRY = Perylene-d12
RT Limit = ± 0.5 minutes of internal standard RT
PRY = Perylene-d12

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 0-2" | Lab Sample ID: 480-127239-1

Matrix: Solid | Lab File ID: U328817.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.66(g) | Date Analyzed: 11/13/2017 16:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2200	330
108-60-1	bis (2-chloroisopropyl) ether	ND		2200	440
95-95-4	2,4,5-Trichlorophenol	ND		2200	600
88-06-2	2,4,6-Trichlorophenol	ND		2200	440
120-83-2	2,4-Dichlorophenol	ND		2200	240
105-67-9	2,4-Dimethylphenol	ND		2200	540
51-28-5	2,4-Dinitrophenol	ND		22000	10000
121-14-2	2,4-Dinitrotoluene	ND		2200	460
606-20-2	2,6-Dinitrotoluene	ND		2200	260
91-58-7	2-Chloronaphthalene	ND		2200	370
95-57-8	2-Chlorophenol	ND		2200	410
91-57-6	2-Methylnaphthalene	ND		2200	440
95-48-7	2-Methylphenol	ND		2200	260
88-74-4	2-Nitroaniline	ND		4300	330
88-75-5	2-Nitrophenol	ND		2200	630
91-94-1	3,3'-Dichlorobenzidine	ND		4300	2600
99-09-2	3-Nitroaniline	ND		4300	610
534-52-1	4,6-Dinitro-2-methylphenol	ND		4300	2200
101-55-3	4-Bromophenyl phenyl ether	ND		2200	310
59-50-7	4-Chloro-3-methylphenol	ND		2200	550
106-47-8	4-Chloroaniline	ND		2200	550
7005-72-3	4-Chlorophenyl phenyl ether	ND		2200	270
106-44-5	4-Methylphenol	ND		4300	260
100-01-6	4-Nitroaniline	ND		4300	1200
100-02-7	4-Nitrophenol	ND		4300	1600
83-32-9	Acenaphthene	610	J	2200	330
208-96-8	Acenaphthylene	ND		2200	290
98-86-2	Acetophenone	ND		2200	300
120-12-7	Anthracene	1700	J	2200	550
1912-24-9	Atrazine	ND		2200	770
100-52-7	Benzaldehyde	ND		2200	1800
56-55-3	Benzo(a)anthracene	5500		2200	220
50-32-8	Benzo(a)pyrene	4800		2200	330
205-99-2	Benzo(b)fluoranthene	6000		2200	350

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 0-2" | Lab Sample ID: 480-127239-1

Matrix: Solid | Lab File ID: U328817.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.66(g) | Date Analyzed: 11/13/2017 16:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	3700		2200	240
207-08-9	Benzo(k)fluoranthene	2900		2200	290
111-91-1	Bis(2-chloroethoxy)methane	ND		2200	470
111-44-4	Bis(2-chloroethyl)ether	ND		2200	290
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2200	760
85-68-7	Butyl benzyl phthalate	ND		2200	370
105-60-2	Caprolactam	ND		2200	670
86-74-8	Carbazole	610	J	2200	260
218-01-9	Chrysene	5500		2200	500
84-74-2	Di-n-butyl phthalate	800	J	2200	380
117-84-0	Di-n-octyl phthalate	ND		2200	260
53-70-3	Dibenz(a,h)anthracene	880	J	2200	390
132-64-9	Dibenzofuran	340	J	2200	260
84-66-2	Diethyl phthalate	ND		2200	290
131-11-3	Dimethyl phthalate	ND		2200	260
206-44-0	Fluoranthene	11000		2200	240
86-73-7	Fluorene	630	J	2200	260
118-74-1	Hexachlorobenzene	ND		2200	300
87-68-3	Hexachlorobutadiene	ND		2200	330
77-47-4	Hexachlorocyclopentadiene	ND		2200	300
67-72-1	Hexachloroethane	ND		2200	290
193-39-5	Indeno(1,2,3-cd)pyrene	2900		2200	270
78-59-1	Isophorone	ND		2200	470
621-64-7	N-Nitrosodi-n-propylamine	ND		2200	380
86-30-6	N-Nitrosodiphenylamine	ND		2200	1800
91-20-3	Naphthalene	ND		2200	290
98-95-3	Nitrobenzene	ND		2200	250
87-86-5	Pentachlorophenol	ND		4300	2200
85-01-8	Phenanthrene	7300		2200	330
108-95-2	Phenol	ND		2200	340
129-00-0	Pyrene	10000		2200	260

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 0-2" | Lab Sample ID: 480-127239-1

Matrix: Solid | Lab File ID: U328817.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.66(g) | Date Analyzed: 11/13/2017 16:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	98		54-120
321-60-8	2-Fluorobiphenyl	85		60-120
367-12-4	2-Fluorophenol	66		52-120
4165-60-0	Nitrobenzene-d5	63		53-120
1718-51-0	p-Terphenyl-d14	98		65-121
4165-62-2	Phenol-d5	67		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D
Lims ID: 480-127239-A-1-A
Client ID: NS-NORTH-SOIL 0-2"
Sample Type: Client
Inject. Date: 13-Nov-2017 16:36:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0067222-006
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 14-Nov-2017 11:42:47 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: richardsd Date: 14-Nov-2017 11:26:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	97	96876	40.0	
* 2 Naphthalene-d8	136	8.739	8.739	0.000	99	348825	40.0	
* 3 Acenaphthene-d10	164	10.763	10.769	-0.006	97	178428	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	98	346856	40.0	
* 5 Chrysene-d12	240	14.706	14.711	-0.005	96	432807	40.0	
* 6 Perylene-d12	264	16.485	16.485	0.000	99	460954	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	93	8601	2.65	
$ 8 Phenol-d5	99	6.730	6.730	0.000	95	10639	2.67	
$ 9 Nitrobenzene-d5	82	7.862	7.862	0.000	93	9583	2.53	
$ 10 2-Fluorobiphenyl	172	9.983	9.983	0.000	99	23519	3.38	
$ 11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	88	2291	3.91	
$ 12 p-Terphenyl-d14	244	13.669	13.669	0.000	99	30502	3.91	
32 Benzaldehyde	77		6.703				ND	
33 Phenol	94		6.751				ND	
35 Bis(2-chloroethyl)ether	93		6.869				ND	
37 2-Chlorophenol	128		6.981				ND	
43 2-Methylphenol	108		7.467				ND	
44 2,2'-oxybis[1-chloropropan	45		7.504				ND	
46 4-Methylphenol	108		7.638				ND	
47 N-Nitrosodi-n-propylamine	70		7.654				ND	
49 Acetophenone	105		7.675				ND	
53 Hexachloroethane	117		7.846				ND	
54 Nitrobenzene	77		7.884				ND	
56 Isophorone	82		8.156				ND	
59 2-Nitrophenol	139		8.268				ND	
60 2,4-Dimethylphenol	107		8.274				ND	
62 Bis(2-chloroethoxy)methane	93		8.381				ND	
67 2,4-Dichlorophenol	162		8.546				ND	
70 Naphthalene	128		8.760				ND	
72 4-Chloroaniline	127		8.792				ND	
74 Hexachlorobutadiene	225		8.904				ND	
76 Caprolactam	113		9.171				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		9.337				ND	
83 2-Methylnaphthalene	142	9.577	9.577	0.000	79	1593	0.2681	
86 Hexachlorocyclopentadiene	237		9.775				ND	
89 2,4,6-Trichlorophenol	196		9.898				ND	
91 2,4,5-Trichlorophenol	196		9.941				ND	
94 1,1'-Biphenyl	154		10.106				ND	
95 2-Chloronaphthalene	162		10.149				ND	
98 2-Nitroaniline	65		10.234				ND	
102 Dimethyl phthalate	163		10.411				ND	
104 2,6-Dinitrotoluene	165		10.485				ND	
105 Acenaphthylene	152		10.614				ND	
106 3-Nitroaniline	138		10.683				ND	
107 2,4-Dinitrophenol	184		10.790				ND	
108 Acenaphthene	153	10.801	10.801	0.000	90	8042	1.39	
109 4-Nitrophenol	109		10.833				ND	
111 2,4-Dinitrotoluene	165		10.929				ND	
112 Dibenzofuran	168	10.982	10.982	0.000	96	6541	0.7880	
118 Diethyl phthalate	149		11.153				ND	
121 4-Chlorophenyl phenyl ethe	204		11.308				ND	
122 4-Nitroaniline	138		11.324				ND	
123 Fluorene	166	11.335	11.335	0.000	98	9816	1.44	
125 4,6-Dinitro-2-methylphenol	198		11.356				ND	
127 N-Nitrosodiphenylamine	169		11.420				ND	
137 4-Bromophenyl phenyl ether	248		11.800				ND	
139 Hexachlorobenzene	284		11.901				ND	
141 Atrazine	200		11.912				ND	
143 Pentachlorophenol	266		12.072				ND	
150 Phenanthrene	178	12.280	12.286	-0.006	97	167118	16.7	
151 Anthracene	178	12.329	12.329	0.001	96	40544	3.92	
152 Carbazole	167	12.457	12.457	0.000	96	12735	1.39	
155 Di-n-butyl phthalate	149	12.708	12.708	0.000	99	19016	1.84	
162 Fluoranthene	202	13.370	13.376	-0.006	98	278891	24.3	
165 Pyrene	202	13.589	13.589	0.000	98	224185	23.1	
172 Butyl benzyl phthalate	149		14.059				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.551				ND	
179 3,3'-Dichlorobenzidine	252		14.615				ND	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	96	157060	12.6	
182 Chrysene	228	14.733	14.738	-0.005	95	150292	12.5	
183 Di-n-octyl phthalate	149		15.208				ND	
185 Benzo[b]fluoranthene	252	15.940	15.940	0.000	95	185869	13.8	
187 Benzo[k]fluoranthene	252	15.967	15.977	-0.010	97	92523	6.67	M
190 Benzo[a]pyrene	252	16.405	16.410	-0.005	75	144309	11.0	
193 Dibenz(a,h)anthracene	278	18.291	18.306	-0.015	85	25241	2.03	
194 Indeno[1,2,3-cd]pyrene	276	18.312	18.317	-0.005	97	97137	6.62	
195 Benzo[g,h,i]perylene	276	18.884	18.894	-0.010	98	97854	8.44	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

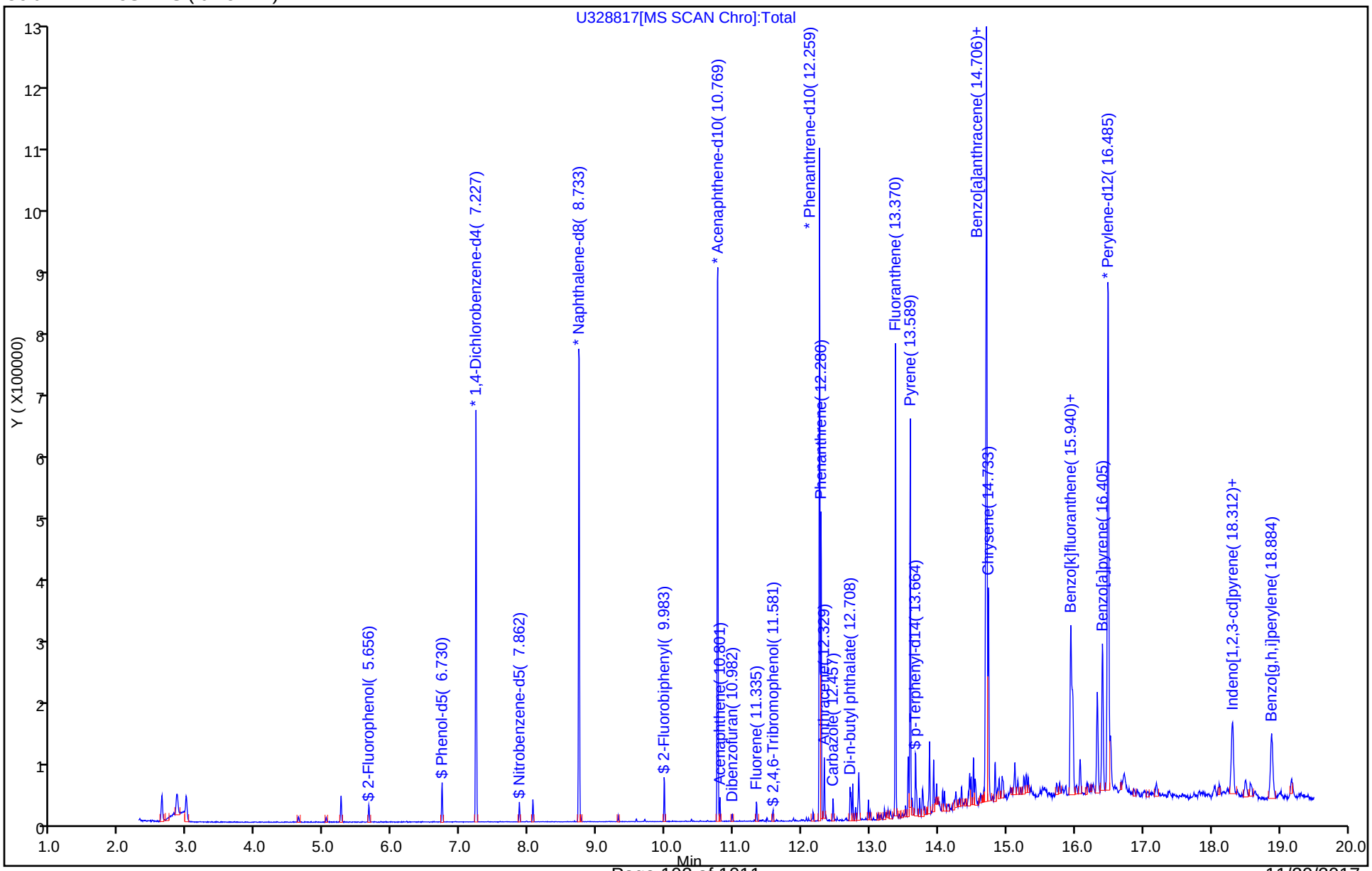
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D

Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1	Worklist Smp#:	6
Client ID:	NS-NORTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	6
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)

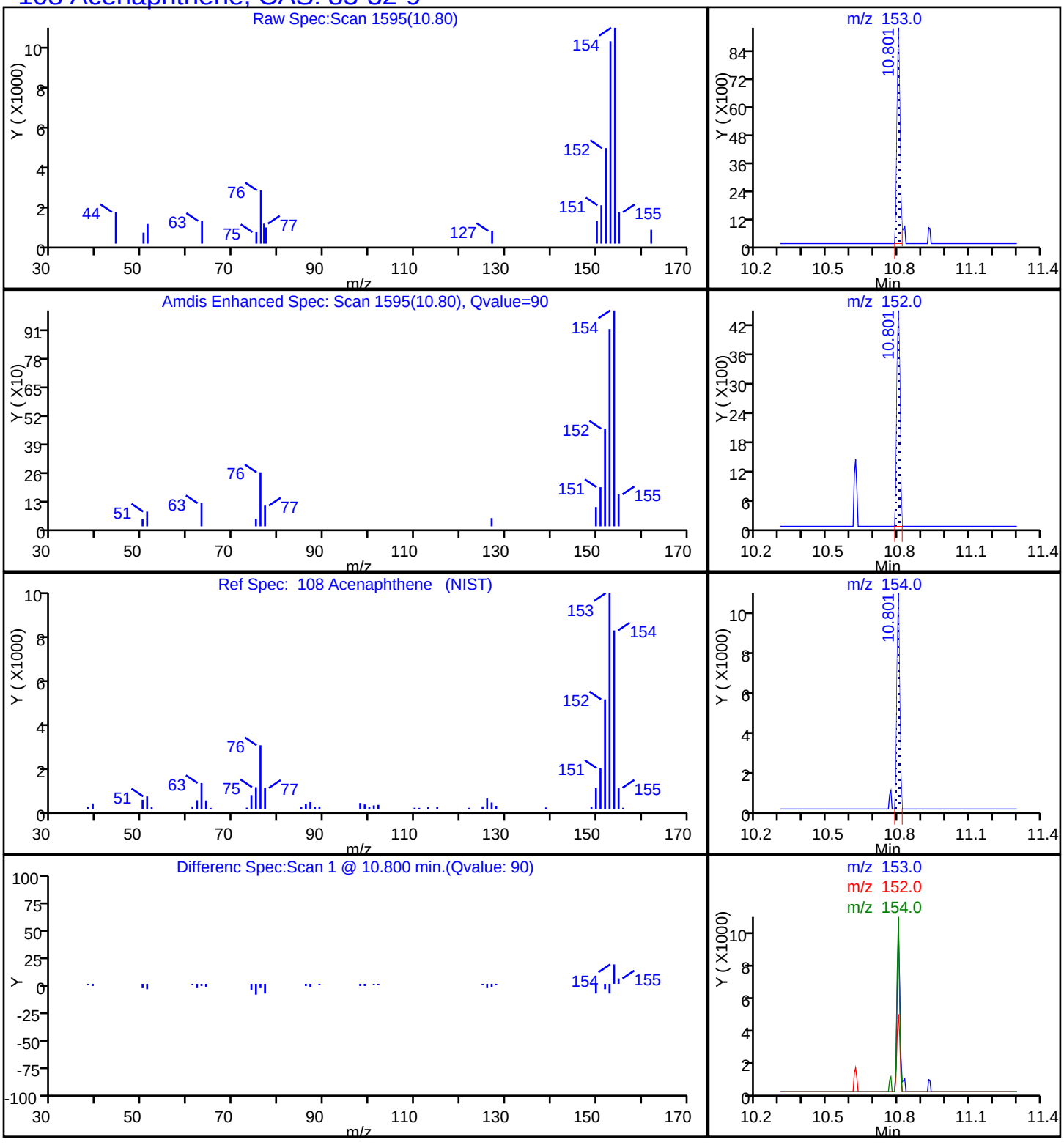


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D

Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1
Client ID:	NS-NORTH-SOIL 0-2"		
Operator ID:	DR	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

108 Acenaphthene, CAS: 83-32-9

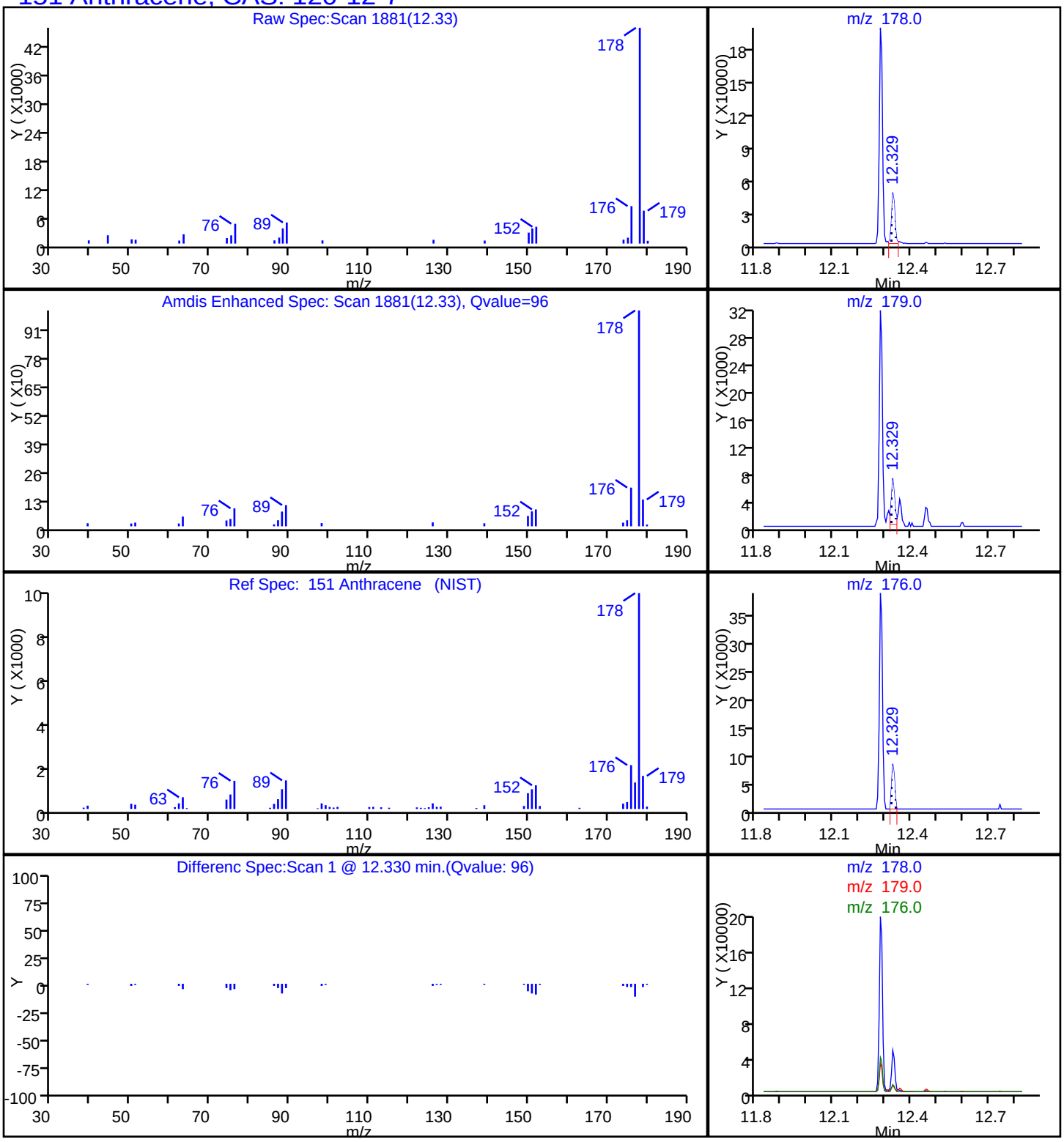


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D

Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1
Client ID:	NS-NORTH-SOIL 0-2"		
Operator ID:	DR	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

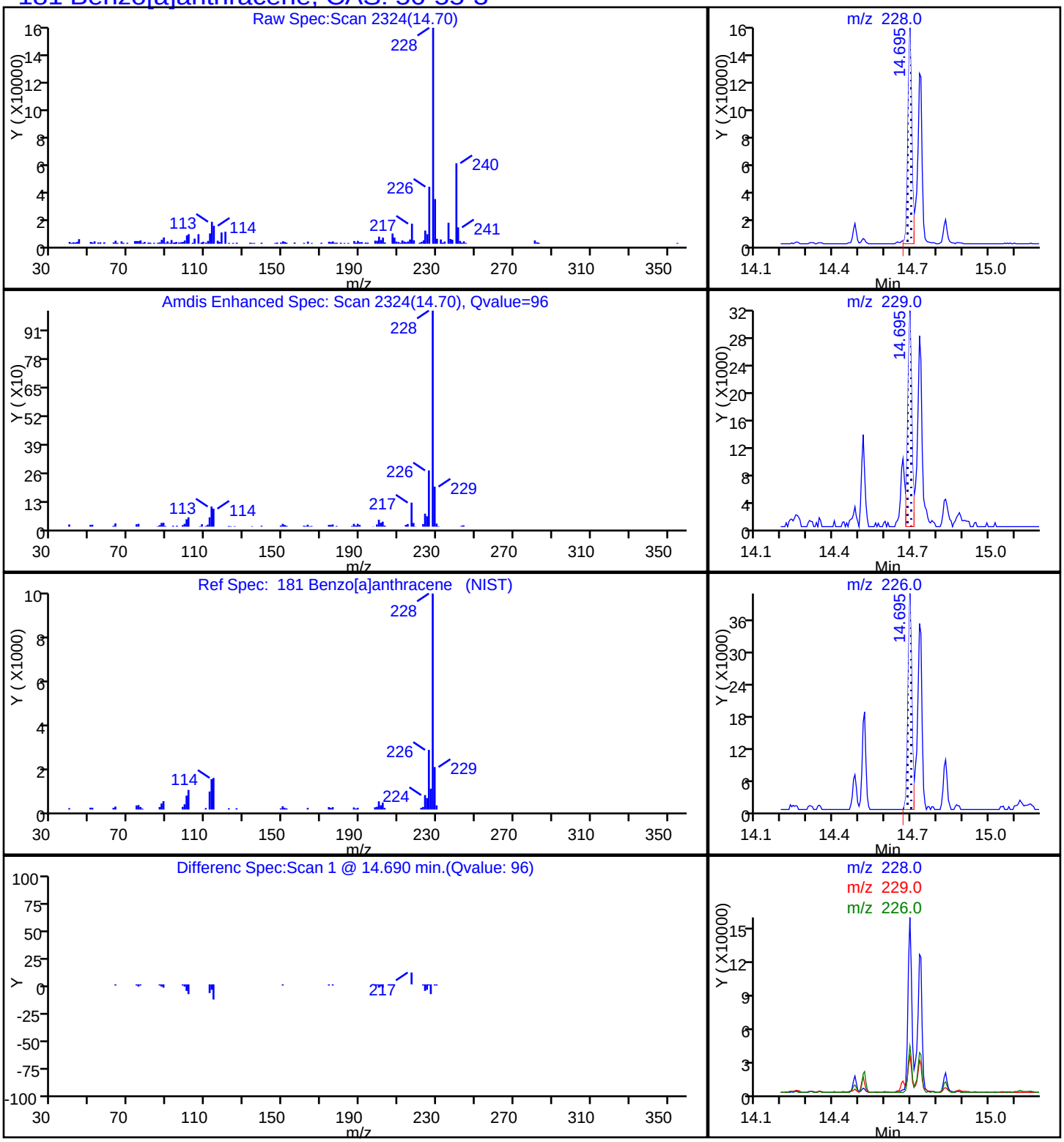
151 Anthracene, CAS: 120-12-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D				
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

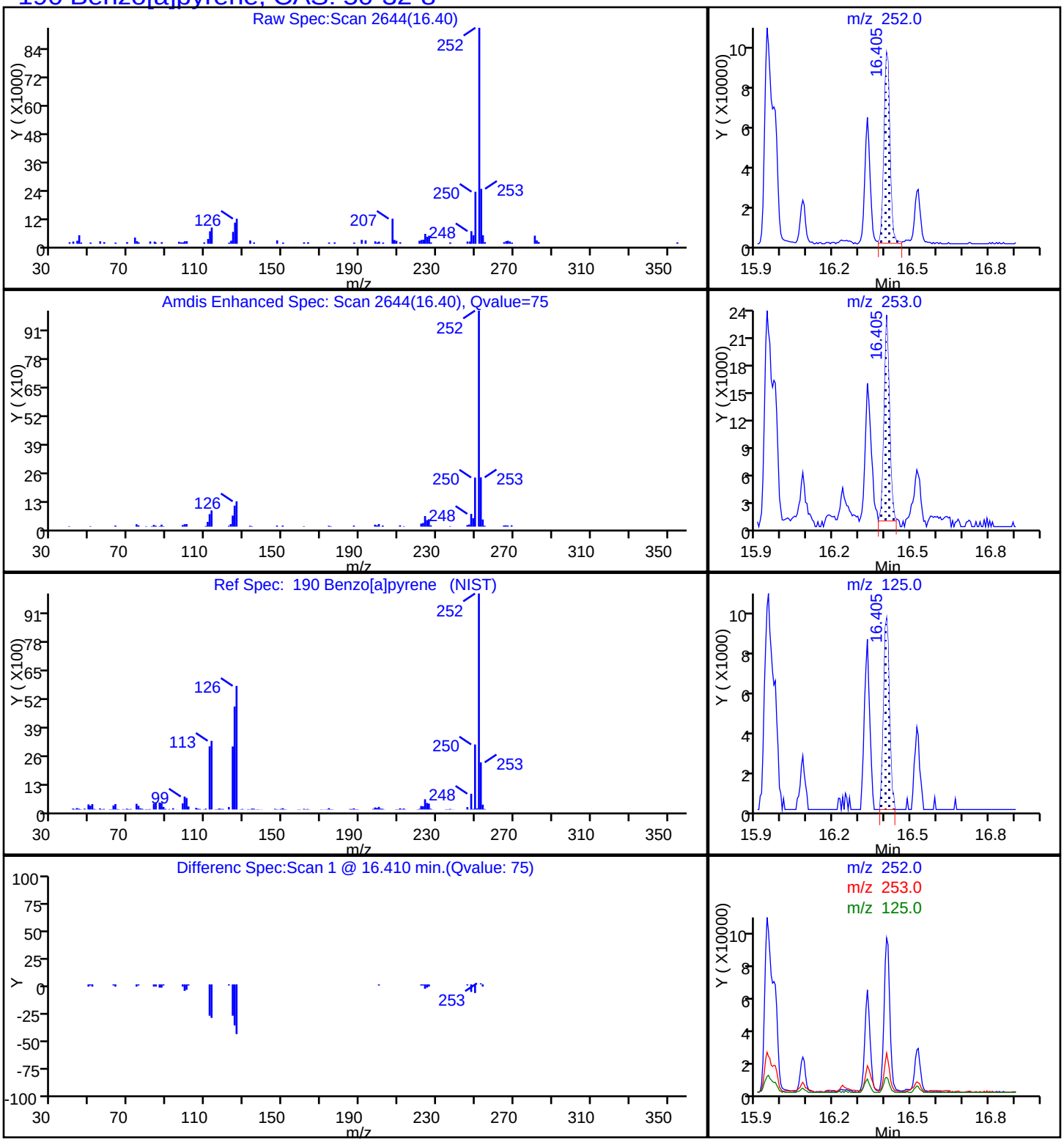
181 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D				
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

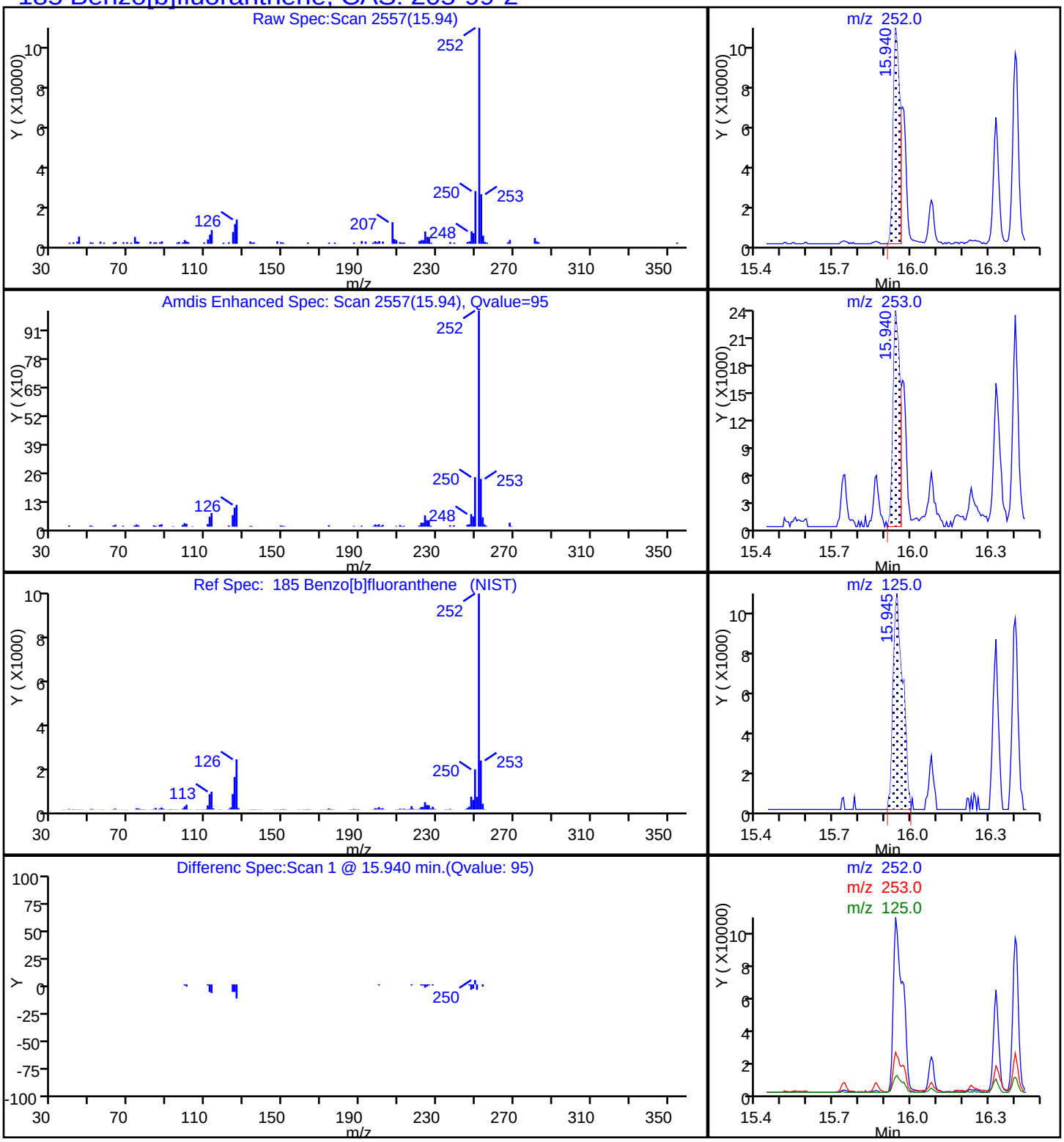
190 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D				
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

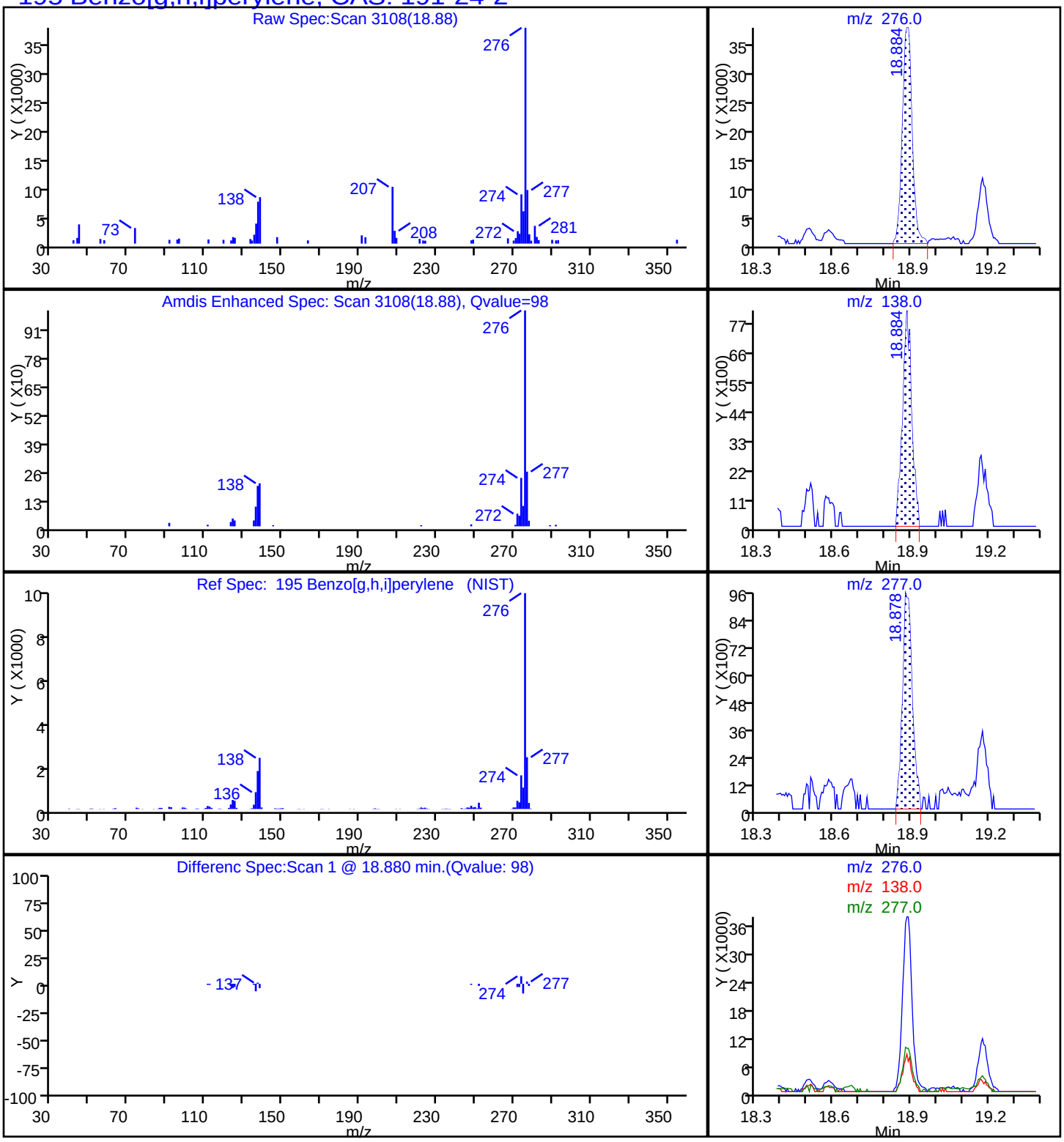
185 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D				
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

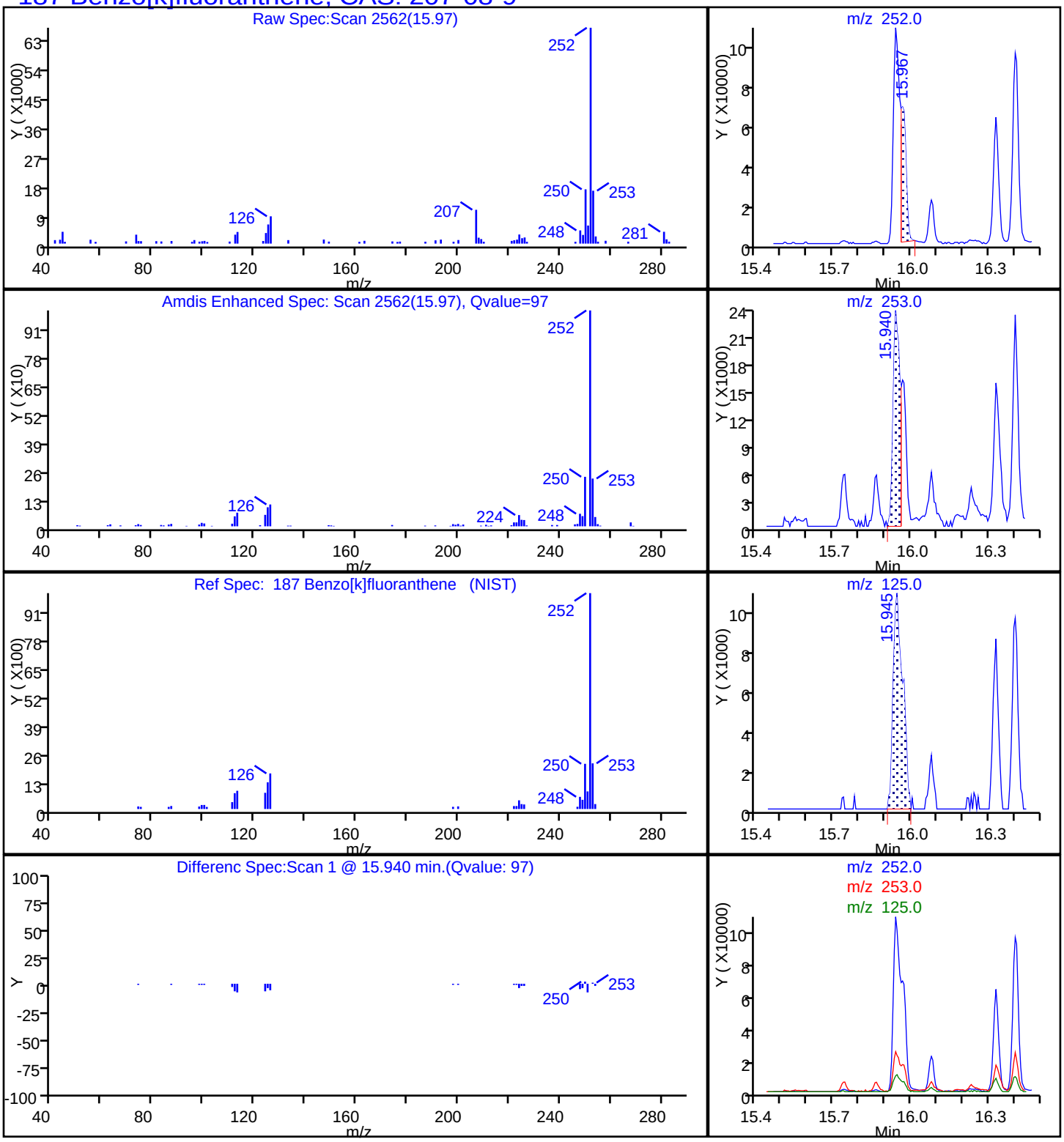
195 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D				
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

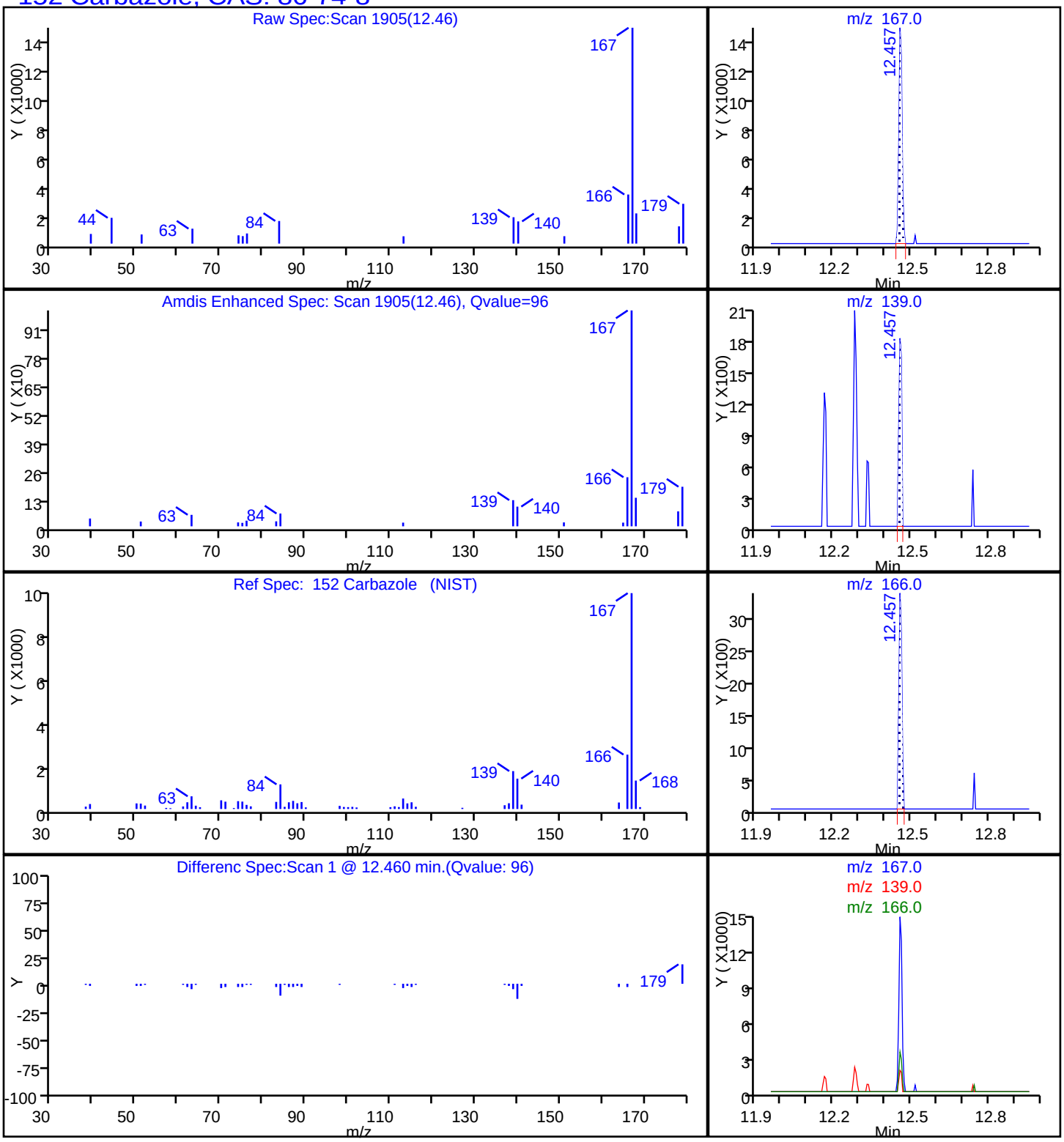
187 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D				
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

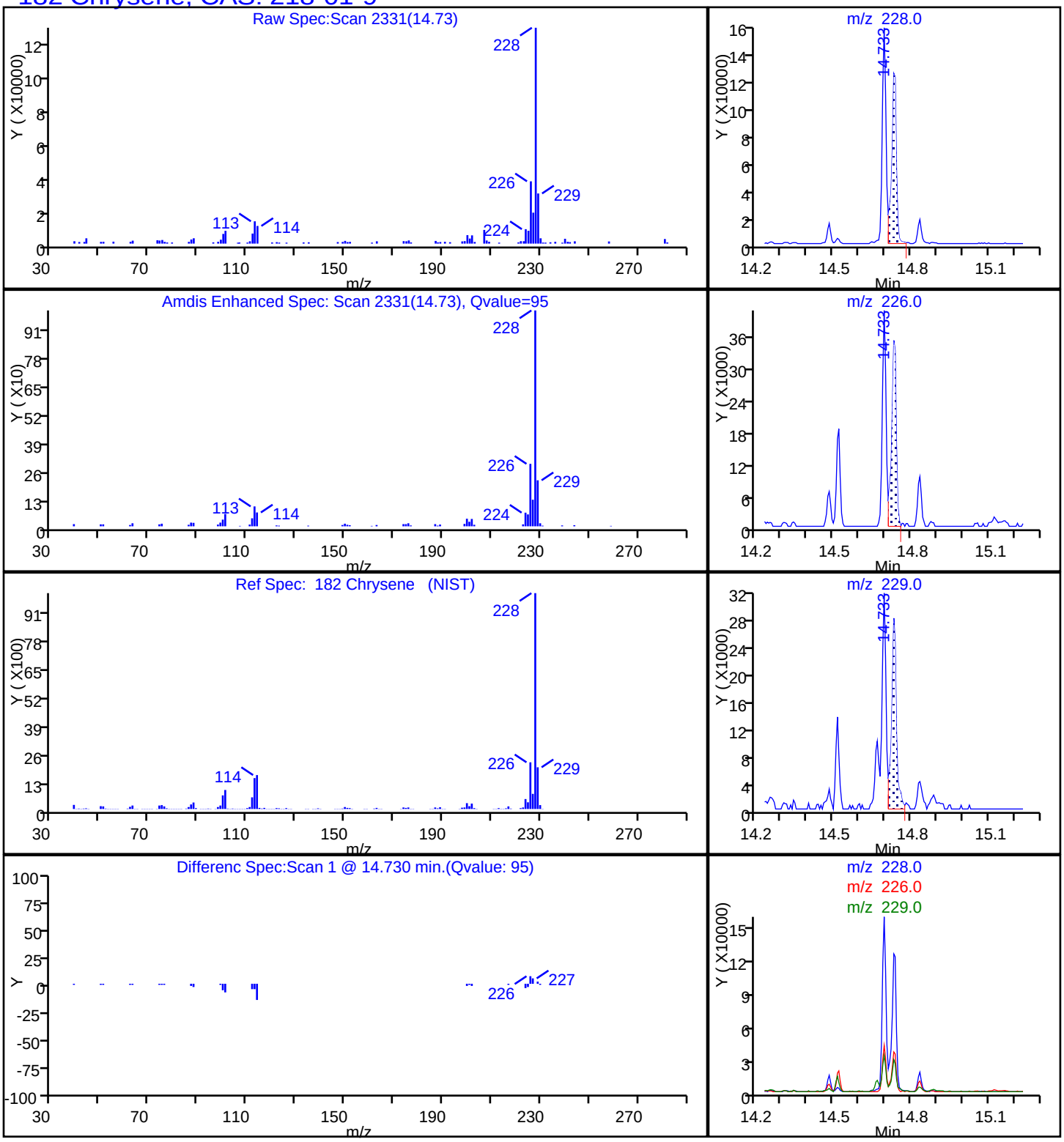
152 Carbazole, CAS: 86-74-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D		
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1
Client ID:	NS-NORTH-SOIL 0-2"		
Operator ID:	DR	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

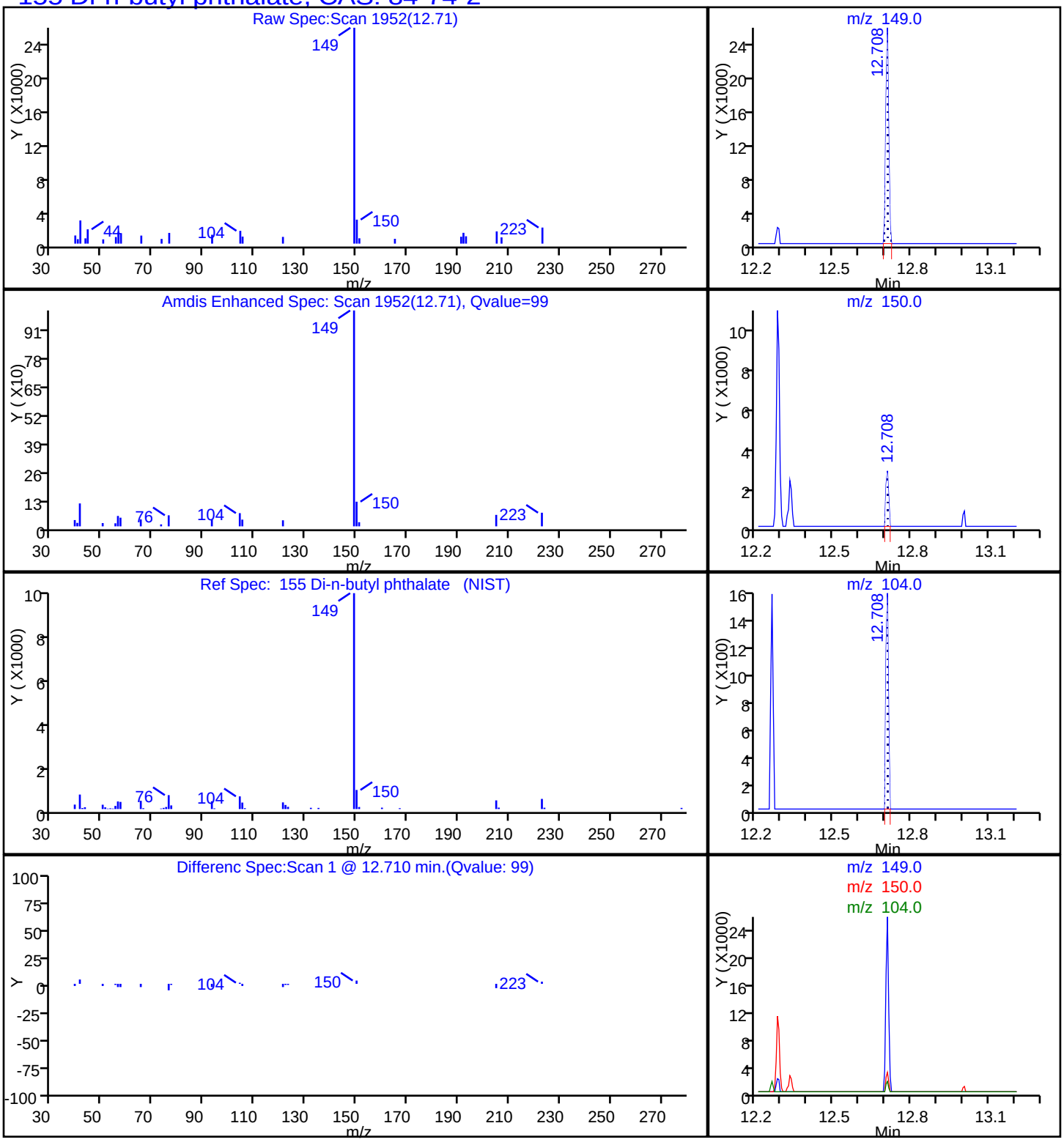
182 Chrysene, CAS: 218-01-9



Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D

Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

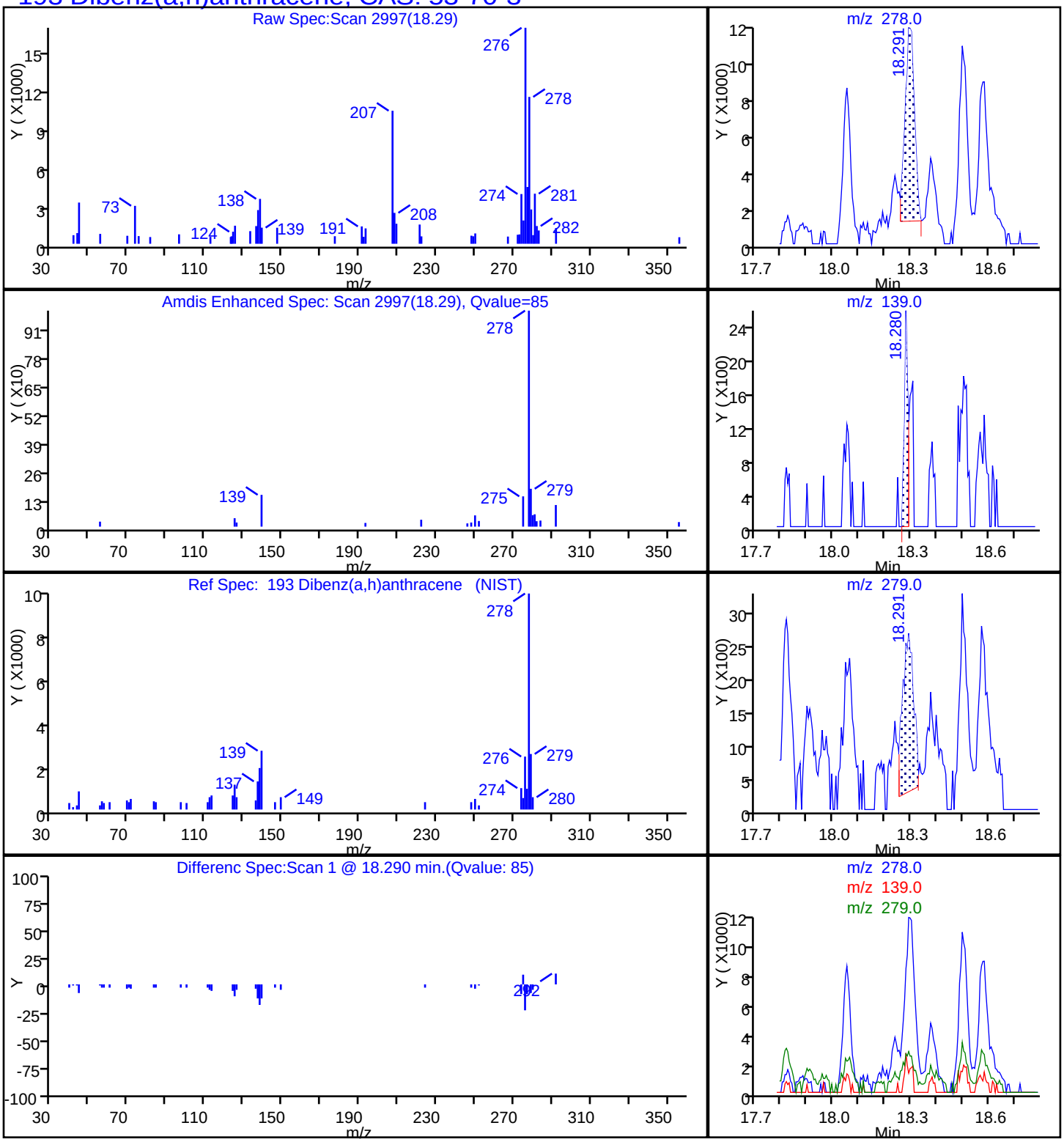
155 Di-n-butyl phthalate, CAS: 84-74-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D				
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

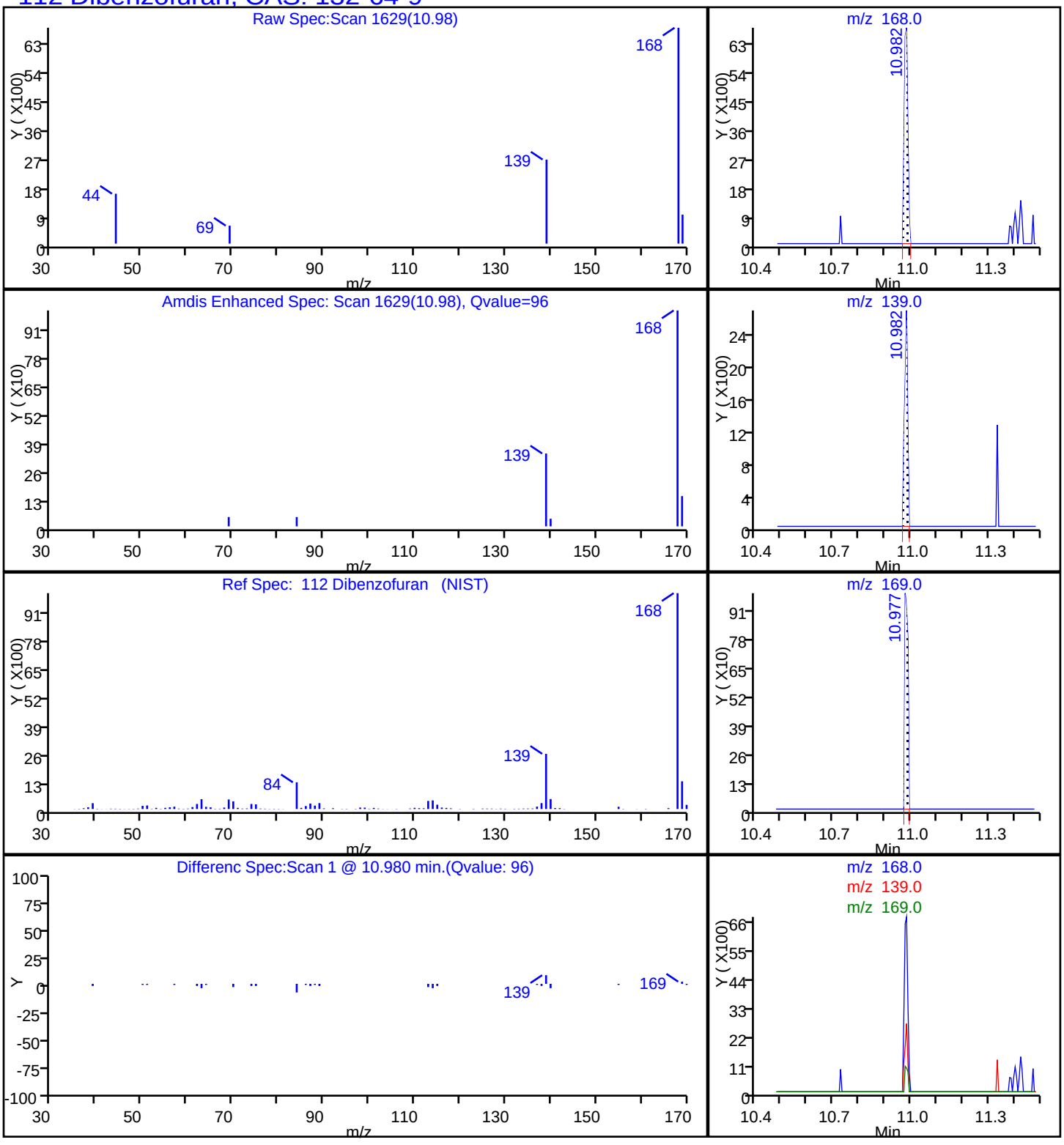
193 Dibenz(a,h)anthracene, CAS: 53-70-3



Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D

Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1
Client ID:	NS-NORTH-SOIL 0-2"		
Operator ID:	DR	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

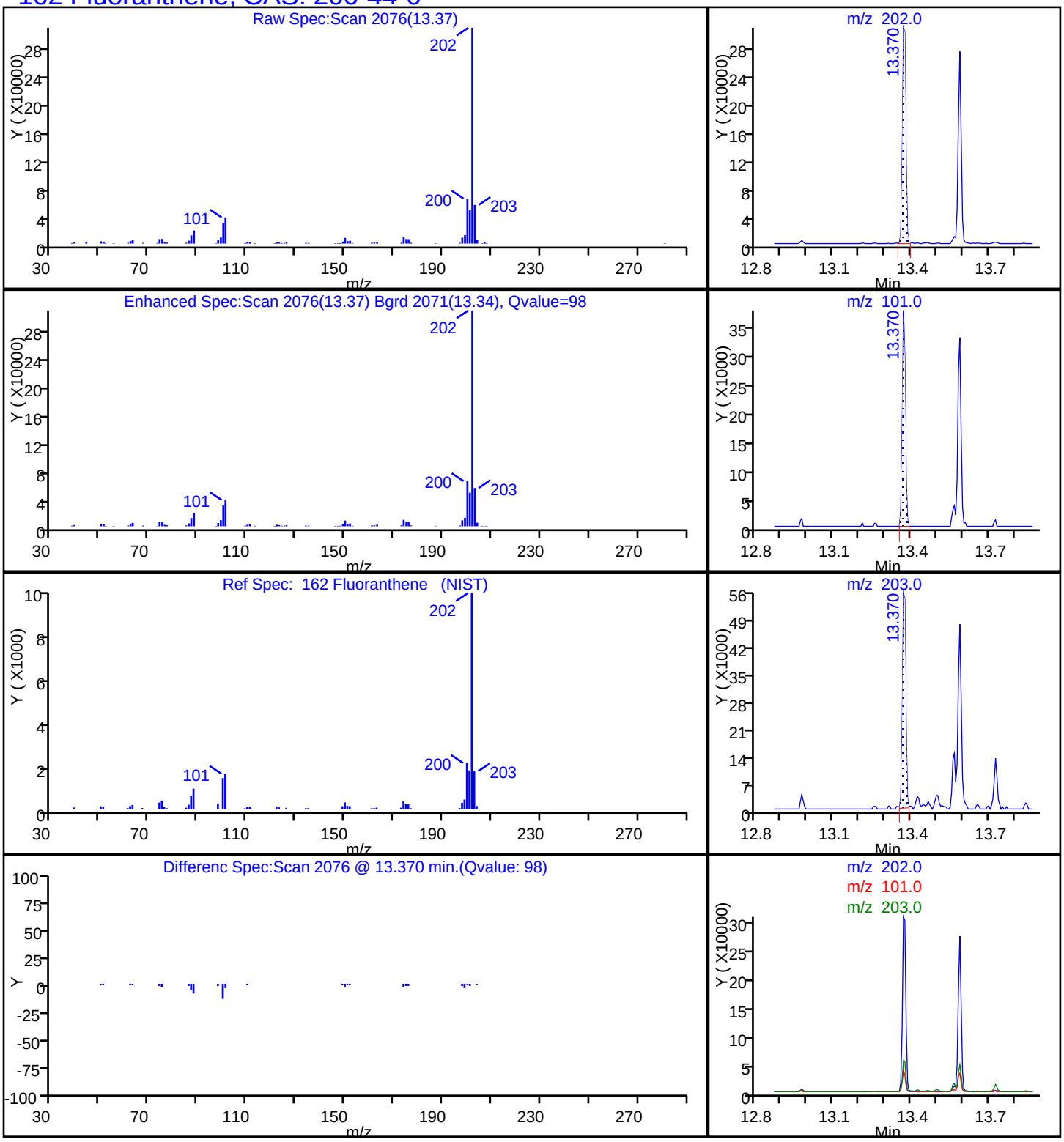
112 Dibenzofuran, CAS: 132-64-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D				
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

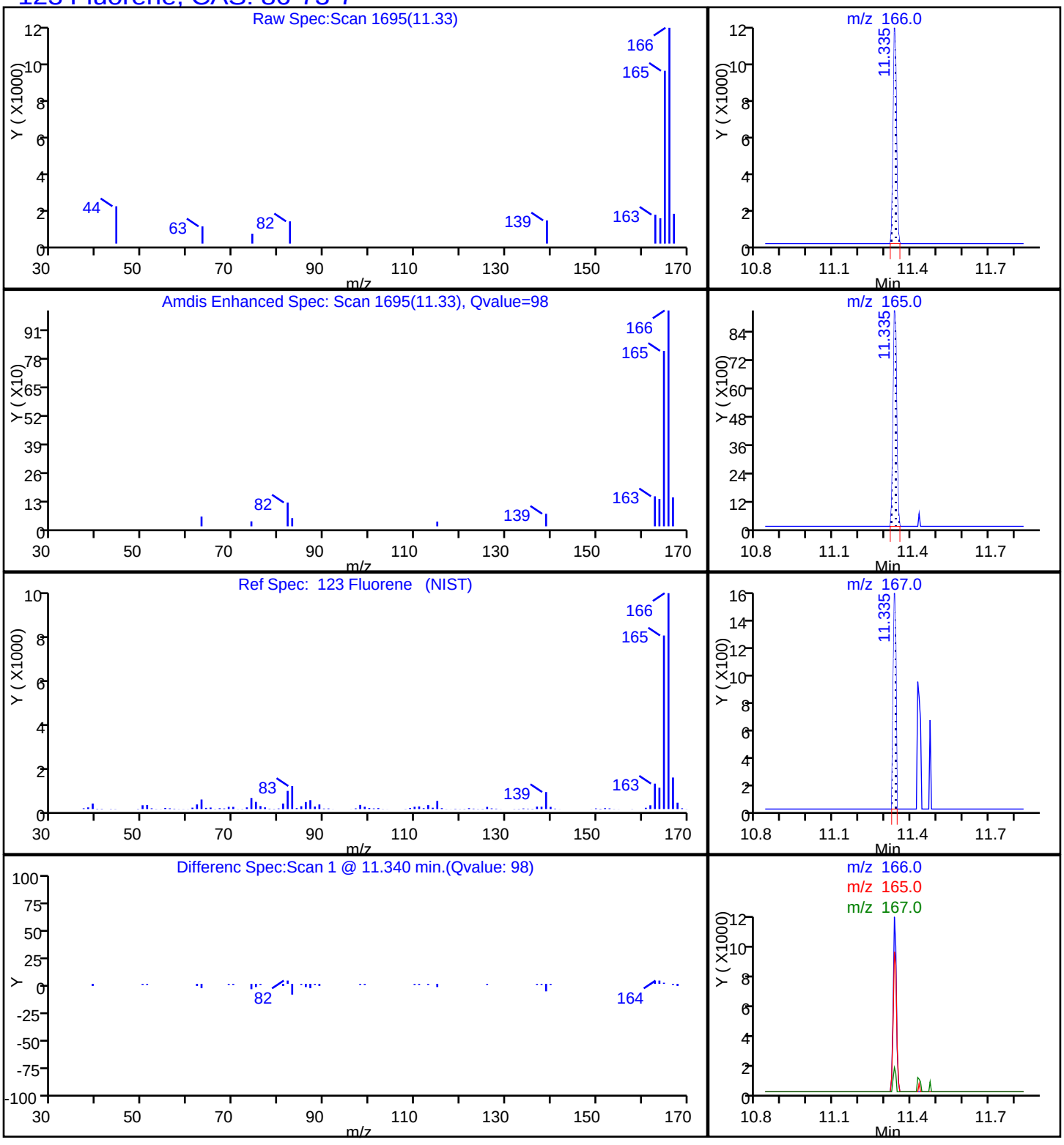
162 Fluoranthene, CAS: 206-44-0



Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D

Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

123 Fluorene, CAS: 86-73-7



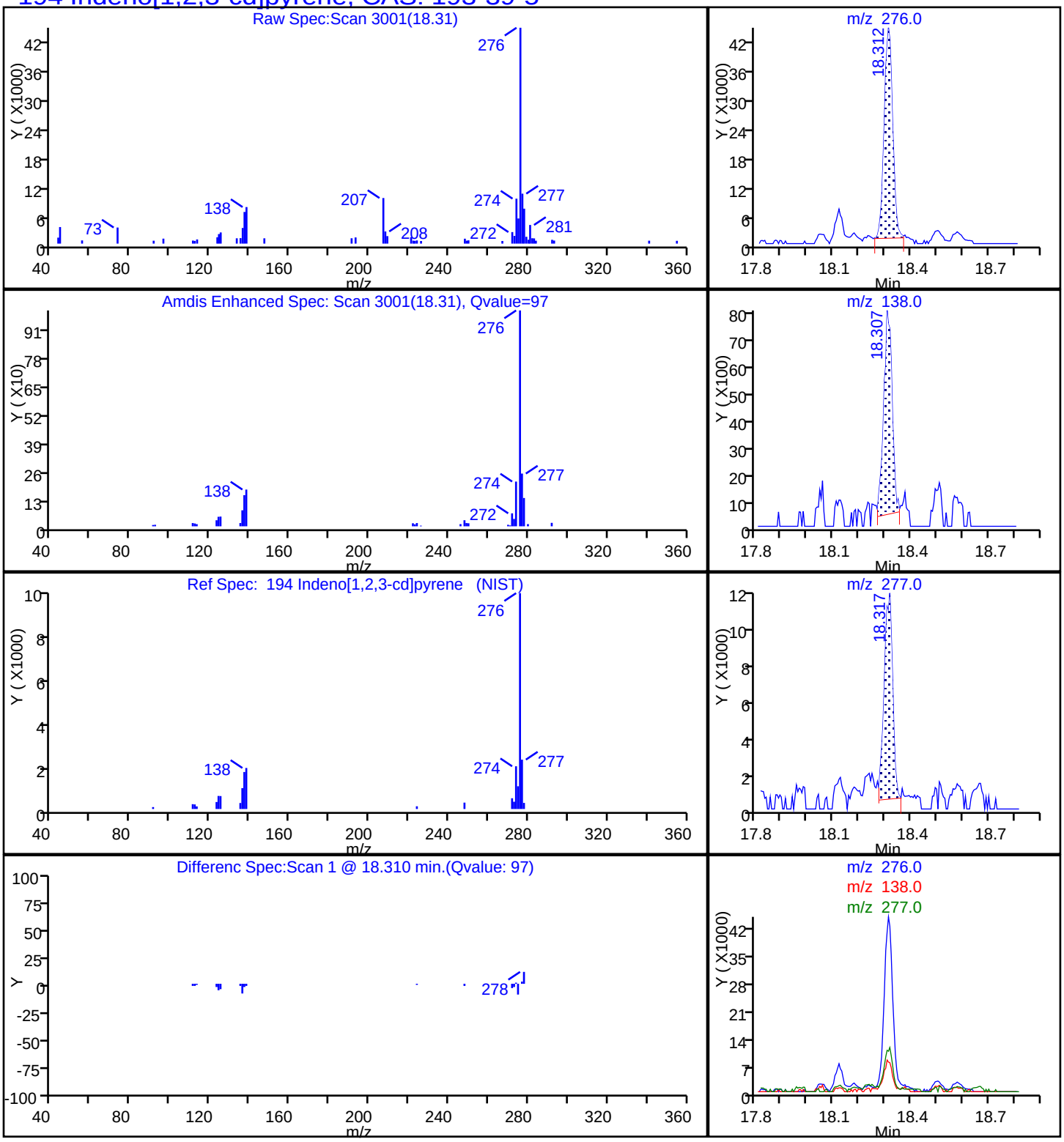
Report Date: 14-Nov-2017 11:50:43 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D

Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

194 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

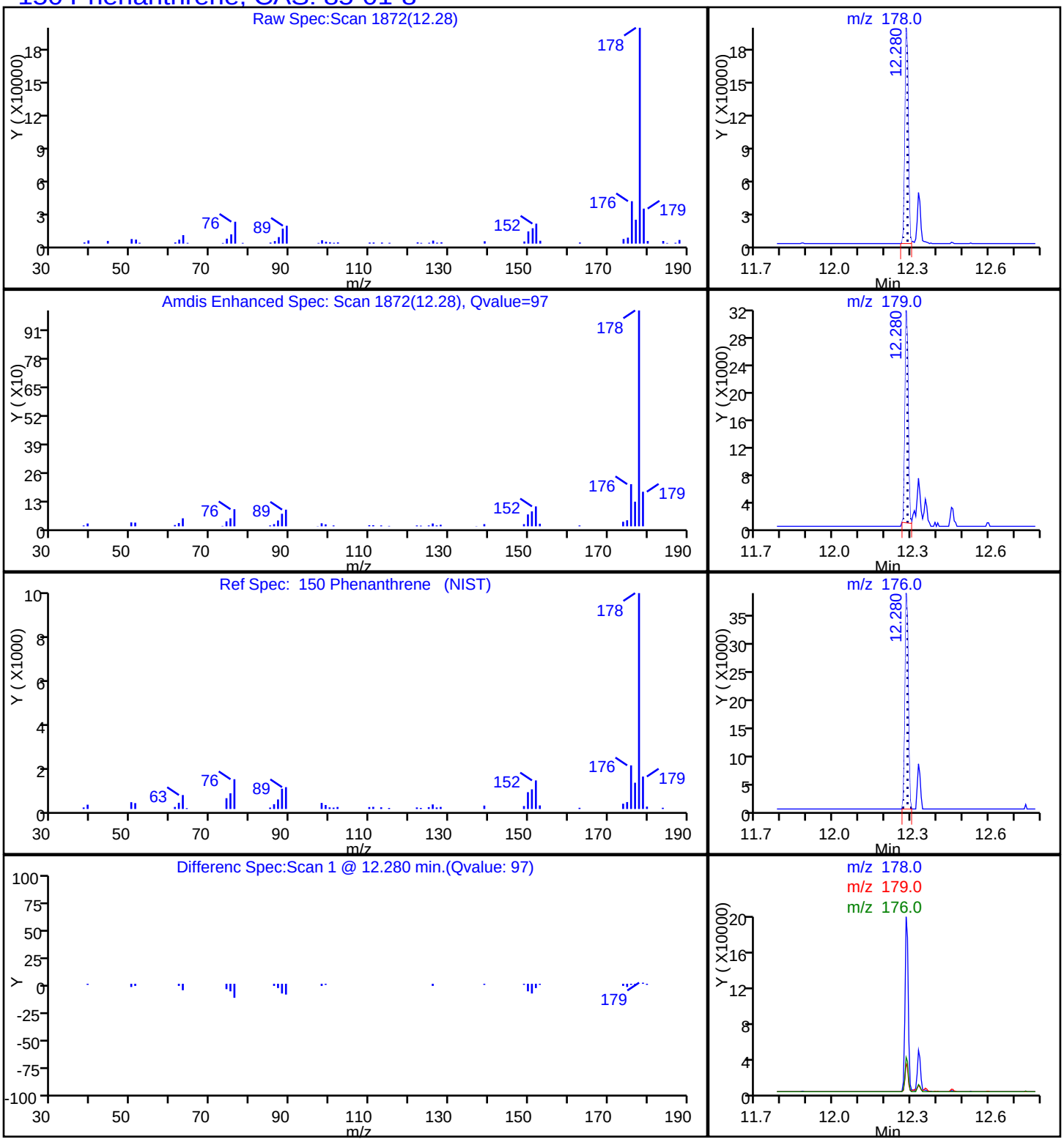


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D

Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1
Client ID:	NS-NORTH-SOIL 0-2"		
Operator ID:	DR	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

150 Phenanthrene, CAS: 85-01-8



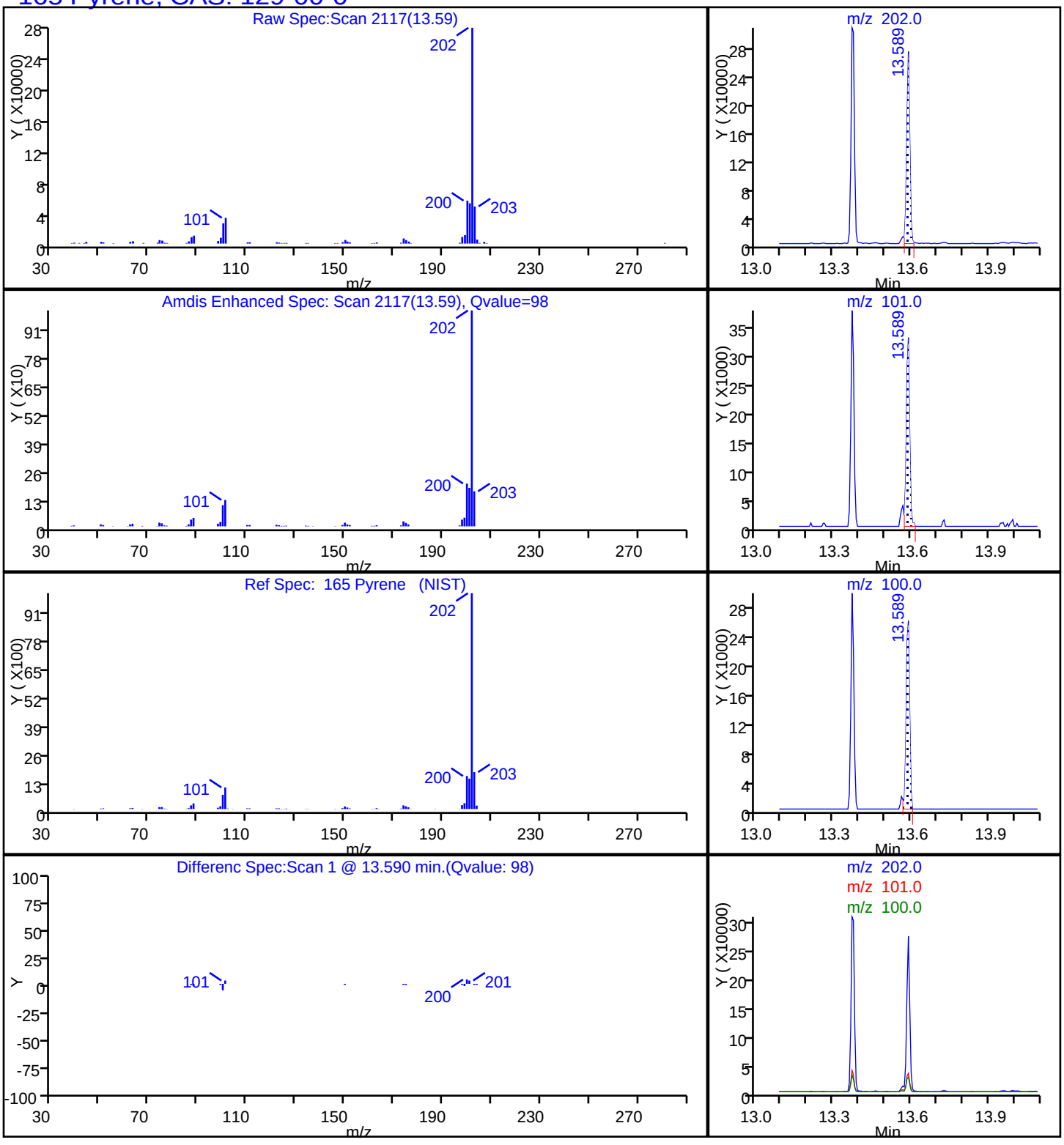
Report Date: 14-Nov-2017 11:50:42 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D

Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

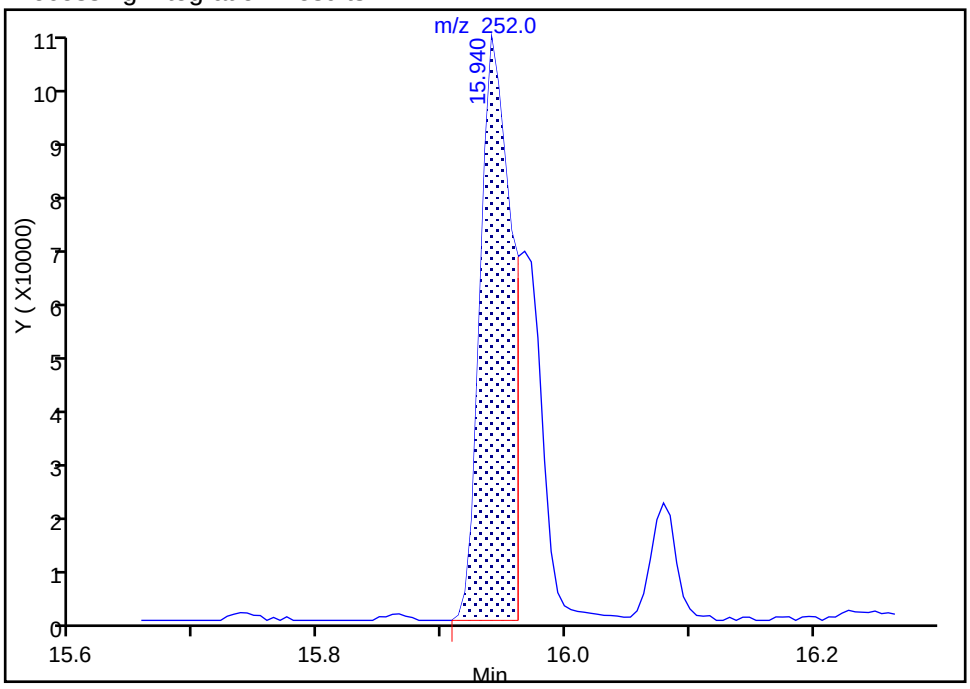
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D				
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

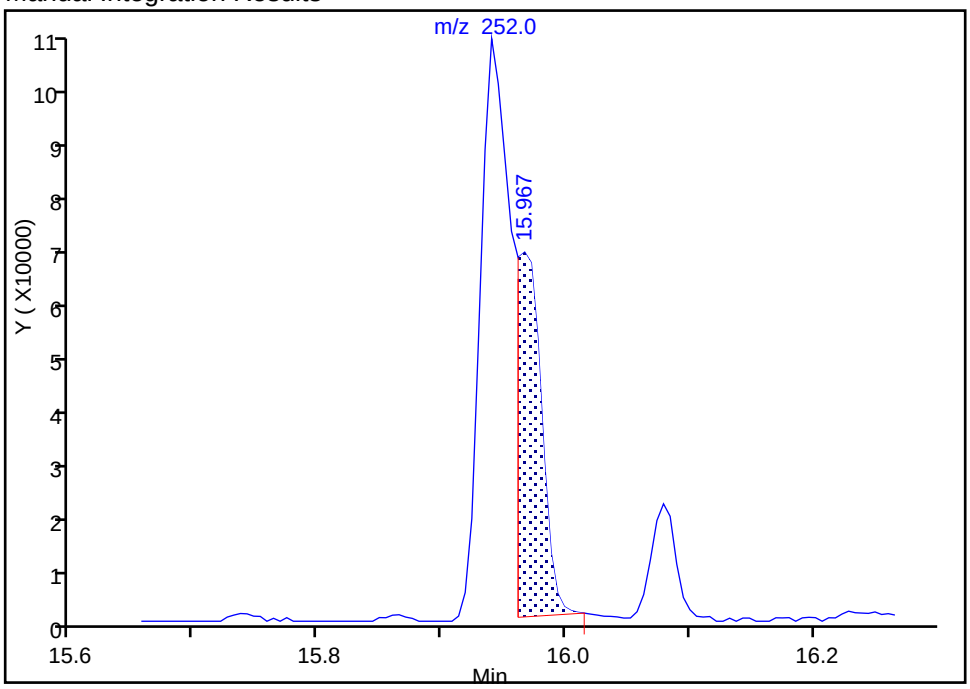
Processing Integration Results

RT: 15.94
Area: 185869
Amount: 13.405814
Amount Units: ng/uL



Manual Integration Results

RT: 15.97
Area: 92523
Amount: 6.673228
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:25:34

Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

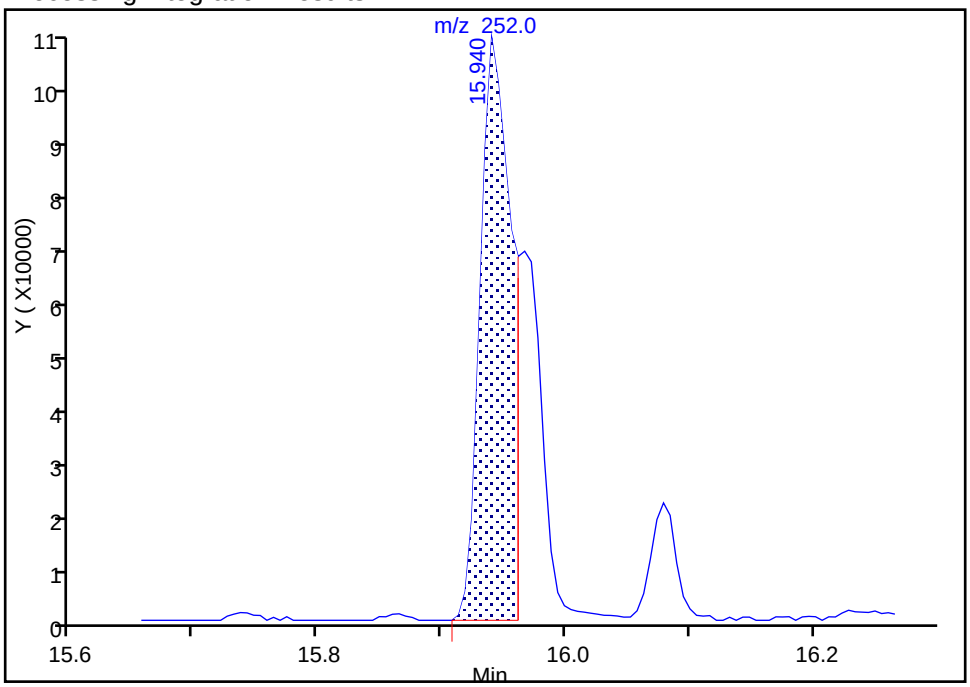
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328817.D				
Injection Date:	13-Nov-2017 16:36:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-1-A	Lab Sample ID:	480-127239-1		
Client ID:	NS-NORTH-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

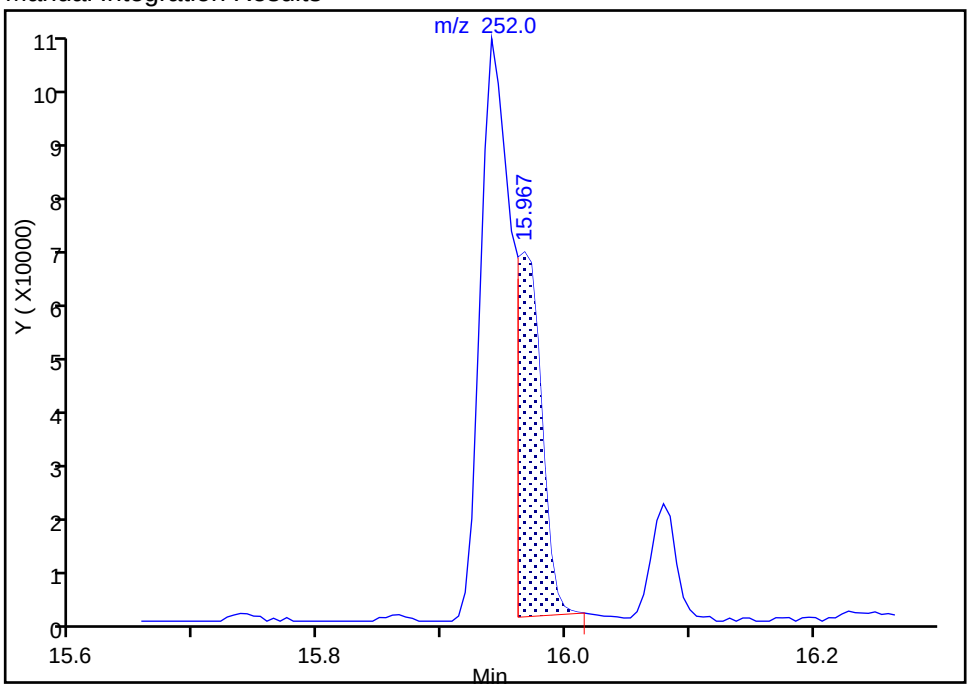
Processing Integration Results

RT: 15.94
Area: 185869
Amount: 13.405814
Amount Units: ng/uL



Manual Integration Results

RT: 15.97
Area: 92523
Amount: 6.673228
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:25:50

Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 0-2" | Lab Sample ID: 480-127239-2

Matrix: Solid | Lab File ID: U328818.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.66(g) | Date Analyzed: 11/13/2017 17:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 33.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5000	730
108-60-1	bis (2-chloroisopropyl) ether	ND		5000	1000
95-95-4	2,4,5-Trichlorophenol	ND		5000	1400
88-06-2	2,4,6-Trichlorophenol	ND		5000	1000
120-83-2	2,4-Dichlorophenol	ND		5000	530
105-67-9	2,4-Dimethylphenol	ND		5000	1200
51-28-5	2,4-Dinitrophenol	ND		49000	23000
121-14-2	2,4-Dinitrotoluene	ND		5000	1000
606-20-2	2,6-Dinitrotoluene	ND		5000	590
91-58-7	2-Chloronaphthalene	ND		5000	820
95-57-8	2-Chlorophenol	ND		5000	910
91-57-6	2-Methylnaphthalene	ND		5000	1000
95-48-7	2-Methylphenol	ND		5000	590
88-74-4	2-Nitroaniline	ND		9700	730
88-75-5	2-Nitrophenol	ND		5000	1400
91-94-1	3,3'-Dichlorobenzidine	ND		9700	5900
99-09-2	3-Nitroaniline	ND		9700	1400
534-52-1	4,6-Dinitro-2-methylphenol	ND		9700	5000
101-55-3	4-Bromophenyl phenyl ether	ND		5000	700
59-50-7	4-Chloro-3-methylphenol	ND		5000	1200
106-47-8	4-Chloroaniline	ND		5000	1200
7005-72-3	4-Chlorophenyl phenyl ether	ND		5000	620
106-44-5	4-Methylphenol	ND		9700	590
100-01-6	4-Nitroaniline	ND		9700	2600
100-02-7	4-Nitrophenol	ND		9700	3500
83-32-9	Acenaphthene	ND		5000	730
208-96-8	Acenaphthylene	660	J	5000	650
98-86-2	Acetophenone	ND		5000	680
120-12-7	Anthracene	1700	J	5000	1200
1912-24-9	Atrazine	ND		5000	1700
100-52-7	Benzaldehyde	ND		5000	4000
56-55-3	Benzo(a)anthracene	4400	J	5000	500
50-32-8	Benzo(a)pyrene	3700	J	5000	730
205-99-2	Benzo(b)fluoranthene	4900	J	5000	790

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 0-2" | Lab Sample ID: 480-127239-2

Matrix: Solid | Lab File ID: U328818.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.66(g) | Date Analyzed: 11/13/2017 17:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 33.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	2800	J	5000	530
207-08-9	Benzo(k)fluoranthene	2400	J	5000	650
111-91-1	Bis(2-chloroethoxy)methane	ND		5000	1100
111-44-4	Bis(2-chloroethyl)ether	ND		5000	650
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5000	1700
85-68-7	Butyl benzyl phthalate	ND		5000	820
105-60-2	Caprolactam	ND		5000	1500
86-74-8	Carbazole	930	J	5000	590
218-01-9	Chrysene	4100	J	5000	1100
84-74-2	Di-n-butyl phthalate	ND		5000	850
117-84-0	Di-n-octyl phthalate	ND		5000	590
53-70-3	Dibenz(a,h)anthracene	ND		5000	880
132-64-9	Dibenzofuran	890	J	5000	590
84-66-2	Diethyl phthalate	ND		5000	650
131-11-3	Dimethyl phthalate	ND		5000	590
206-44-0	Fluoranthene	9400		5000	530
86-73-7	Fluorene	1500	J	5000	590
118-74-1	Hexachlorobenzene	ND		5000	680
87-68-3	Hexachlorobutadiene	ND		5000	730
77-47-4	Hexachlorocyclopentadiene	ND		5000	680
67-72-1	Hexachloroethane	ND		5000	650
193-39-5	Indeno(1,2,3-cd)pyrene	2500	J	5000	620
78-59-1	Isophorone	ND		5000	1100
621-64-7	N-Nitrosodi-n-propylamine	ND		5000	850
86-30-6	N-Nitrosodiphenylamine	ND		5000	4100
91-20-3	Naphthalene	1100	J	5000	650
98-95-3	Nitrobenzene	ND		5000	560
87-86-5	Pentachlorophenol	ND		9700	5000
85-01-8	Phenanthrene	8500		5000	730
108-95-2	Phenol	ND		5000	760
129-00-0	Pyrene	7800		5000	590

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 0-2" | Lab Sample ID: 480-127239-2

Matrix: Solid | Lab File ID: U328818.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.66(g) | Date Analyzed: 11/13/2017 17:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 33.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	X	54-120
321-60-8	2-Fluorobiphenyl	56	X	60-120
367-12-4	2-Fluorophenol	37	X	52-120
4165-60-0	Nitrobenzene-d5	47	X	53-120
1718-51-0	p-Terphenyl-d14	63	X	65-121
4165-62-2	Phenol-d5	41	X	54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D
Lims ID: 480-127239-A-2-A
Client ID: NS-EAST-SOIL 0-2"
Sample Type: Client
Inject. Date: 13-Nov-2017 17:03:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 480-0067222-007
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 14-Nov-2017 11:42:47 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: richardsd Date: 14-Nov-2017 11:28:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	97	97733	40.0	
* 2 Naphthalene-d8	136	8.733	8.739	-0.006	99	353540	40.0	
* 3 Acenaphthene-d10	164	10.763	10.769	-0.006	98	179295	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	97	347787	40.0	
* 5 Chrysene-d12	240	14.706	14.711	-0.005	97	452118	40.0	
* 6 Perylene-d12	264	16.485	16.485	0.000	99	501882	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	1	2438	0.7453	
$ 8 Phenol-d5	99	6.730	6.730	0.000	1	3331	0.8284	
$ 9 Nitrobenzene-d5	82	7.863	7.862	0.001	93	3591	0.9342	
$ 10 2-Fluorobiphenyl	172	9.989	9.983	0.006	97	7830	1.12	
$ 11 2,4,6-Tribromophenol	330		11.581				ND	
$ 12 p-Terphenyl-d14	244	13.670	13.669	0.001	98	10242	1.26	
32 Benzaldehyde	77		6.703				ND	
33 Phenol	94		6.751				ND	
35 Bis(2-chloroethyl)ether	93		6.869				ND	
37 2-Chlorophenol	128		6.981				ND	
43 2-Methylphenol	108		7.467				ND	
44 2,2'-oxybis[1-chloropropan	45		7.504				ND	
46 4-Methylphenol	108		7.638				ND	
47 N-Nitrosodi-n-propylamine	70		7.654				ND	
49 Acetophenone	105		7.675				ND	
53 Hexachloroethane	117		7.846				ND	
54 Nitrobenzene	77		7.884				ND	
56 Isophorone	82		8.156				ND	
59 2-Nitrophenol	139		8.268				ND	
60 2,4-Dimethylphenol	107		8.274				ND	
62 Bis(2-chloroethoxy)methane	93		8.381				ND	
67 2,4-Dichlorophenol	162		8.546				ND	
70 Naphthalene	128	8.760	8.760	0.000	97	10084	1.14	
72 4-Chloroaniline	127		8.792				ND	
74 Hexachlorobutadiene	225		8.904				ND	
76 Caprolactam	113		9.171				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		9.337				ND	
83 2-Methylnaphthalene	142	9.577	9.577	0.000	86	2787	0.4628	
86 Hexachlorocyclopentadiene	237		9.775				ND	
89 2,4,6-Trichlorophenol	196		9.898				ND	
91 2,4,5-Trichlorophenol	196		9.941				ND	
94 1,1'-Biphenyl	154		10.106				ND	
95 2-Chloronaphthalene	162		10.149				ND	
98 2-Nitroaniline	65		10.234				ND	
102 Dimethyl phthalate	163		10.411				ND	
104 2,6-Dinitrotoluene	165		10.485				ND	
105 Acenaphthylene	152	10.614	10.614	0.000	96	5715	0.6740	
106 3-Nitroaniline	138		10.683				ND	
107 2,4-Dinitrophenol	184		10.790				ND	
108 Acenaphthene	153	10.801	10.801	0.000	91	2460	0.4233	
109 4-Nitrophenol	109		10.833				ND	
111 2,4-Dinitrotoluene	165		10.929				ND	
112 Dibenzofuran	168	10.982	10.982	0.000	95	7618	0.9134	
118 Diethyl phthalate	149		11.153				ND	
121 4-Chlorophenyl phenyl ethe	204		11.308				ND	
122 4-Nitroaniline	138		11.324				ND	
123 Fluorene	166	11.335	11.335	0.000	92	10624	1.56	
125 4,6-Dinitro-2-methylphenol	198		11.356				ND	
127 N-Nitrosodiphenylamine	169		11.420				ND	
137 4-Bromophenyl phenyl ether	248		11.800				ND	
139 Hexachlorobenzene	284		11.901				ND	
141 Atrazine	200		11.912				ND	
143 Pentachlorophenol	266		12.072				ND	
150 Phenanthrene	178	12.281	12.286	-0.005	97	86849	8.66	
151 Anthracene	178	12.329	12.329	0.001	96	17823	1.72	
152 Carbazole	167	12.457	12.457	0.000	94	8708	0.9498	
155 Di-n-butyl phthalate	149		12.708				ND	
162 Fluoranthene	202	13.376	13.376	0.000	97	110144	9.58	
165 Pyrene	202	13.589	13.589	0.000	98	81171	8.02	
172 Butyl benzyl phthalate	149		14.059				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.551				ND	
179 3,3'-Dichlorobenzidine	252		14.615				ND	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	97	58776	4.53	
182 Chrysene	228	14.733	14.738	-0.005	96	52907	4.22	
183 Di-n-octyl phthalate	149		15.208				ND	
185 Benzo[b]fluoranthene	252	15.940	15.940	0.000	96	73885	5.02	M
187 Benzo[k]fluoranthene	252	15.967	15.977	-0.010	97	36878	2.44	M
190 Benzo[a]pyrene	252	16.410	16.410	0.000	76	54285	3.79	
193 Dibenz(a,h)anthracene	278		18.306				ND	
194 Indeno[1,2,3-cd]pyrene	276	18.307	18.317	-0.010	98	41180	2.58	
195 Benzo[g,h,i]perylene	276	18.884	18.894	-0.010	98	35807	2.84	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

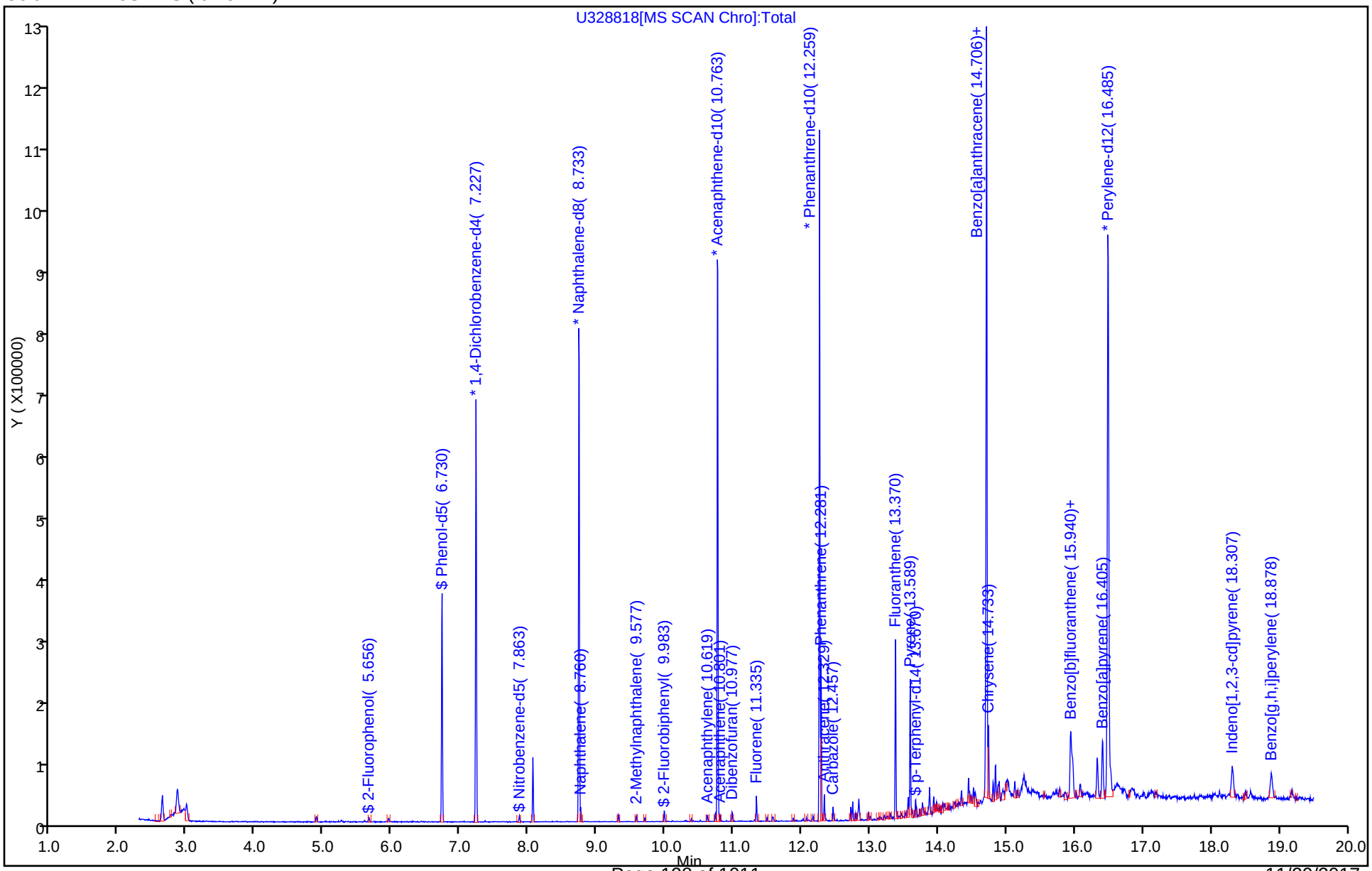
Report Date: 14-Nov-2017 11:50:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D

Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2	Worklist Smp#:	7
Client ID:	NS-EAST-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	7
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



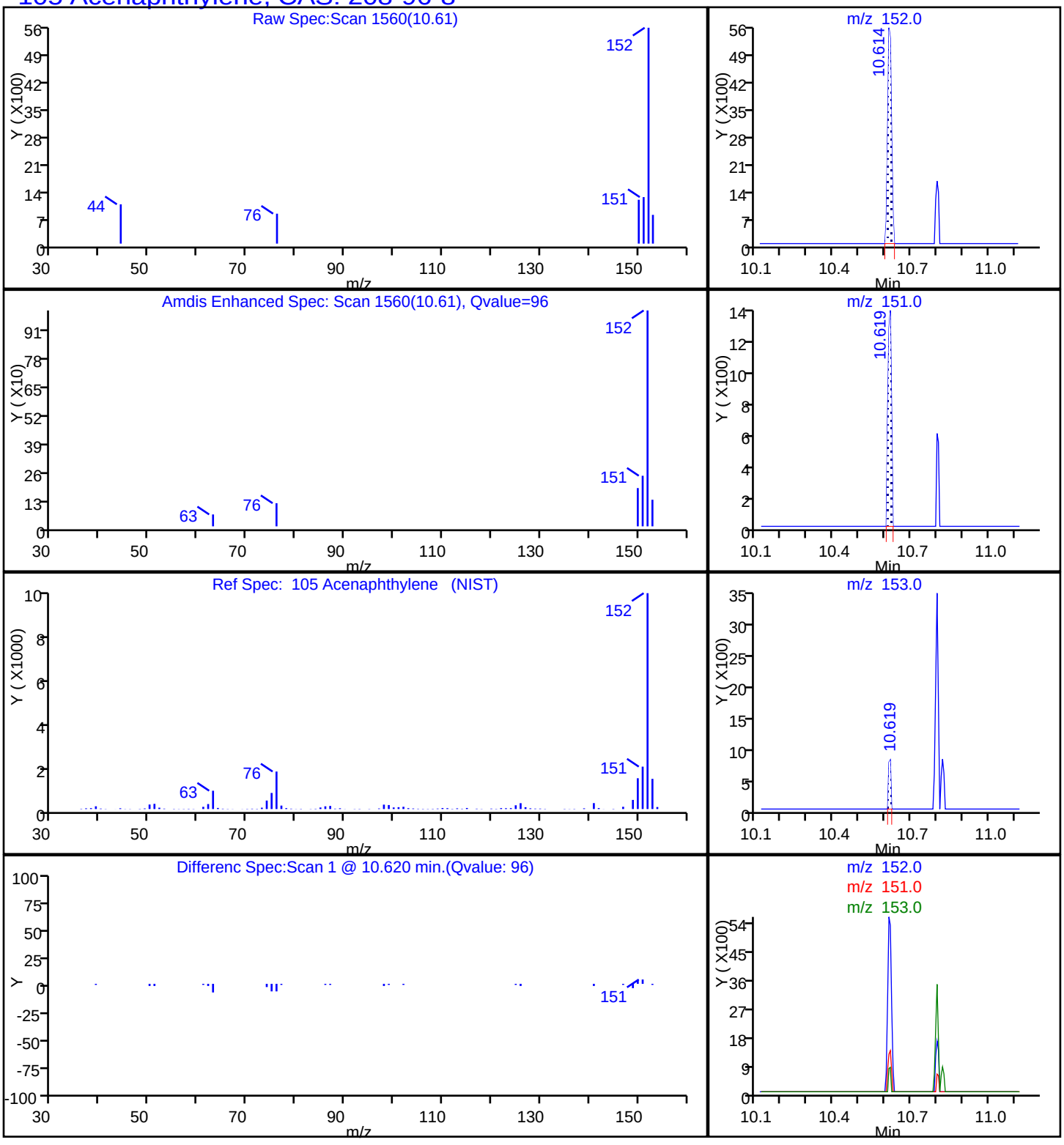
Report Date: 14-Nov-2017 11:50:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D

Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

105 Acenaphthylene, CAS: 208-96-8



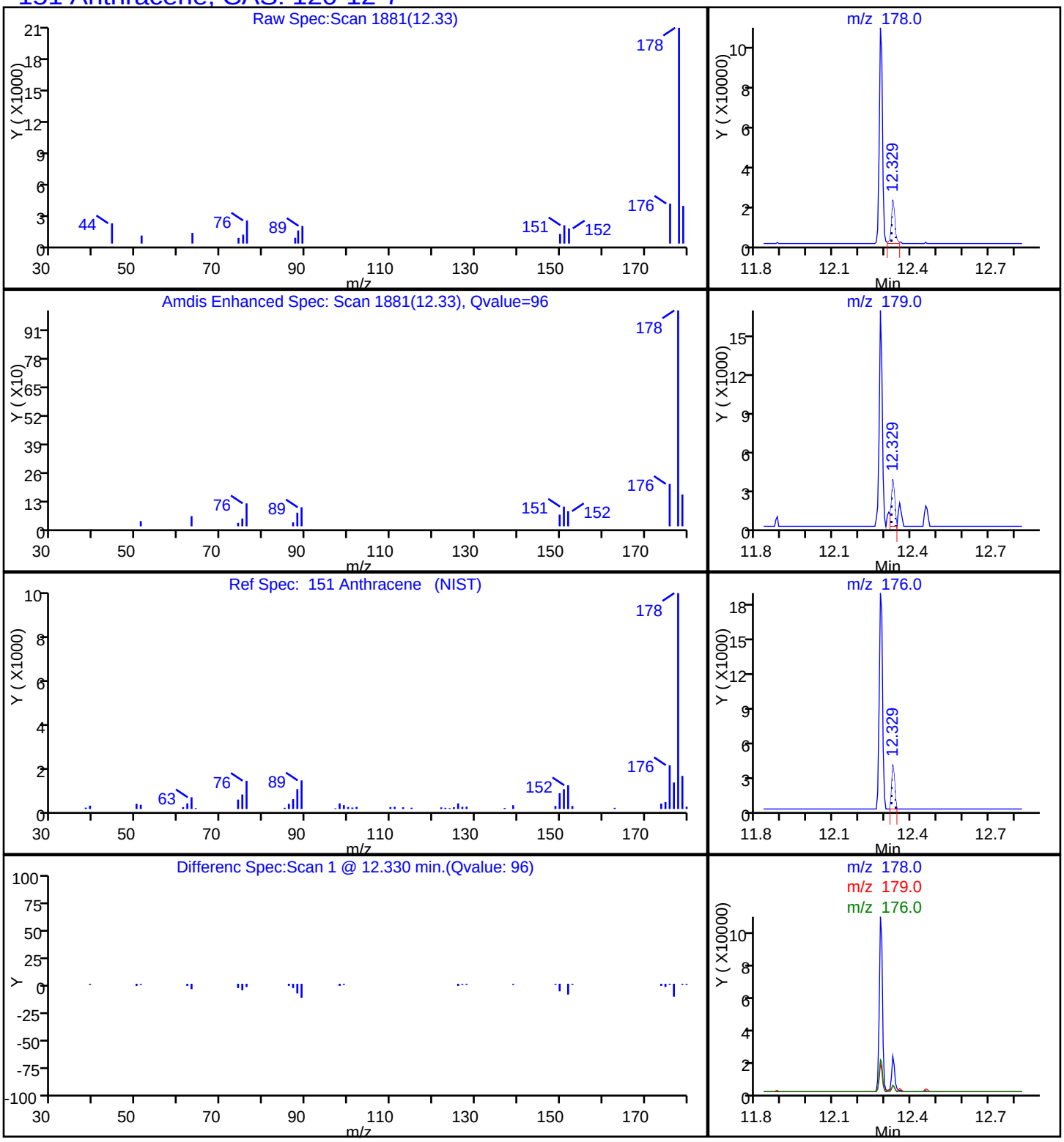
Report Date: 14-Nov-2017 11:50:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D

Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

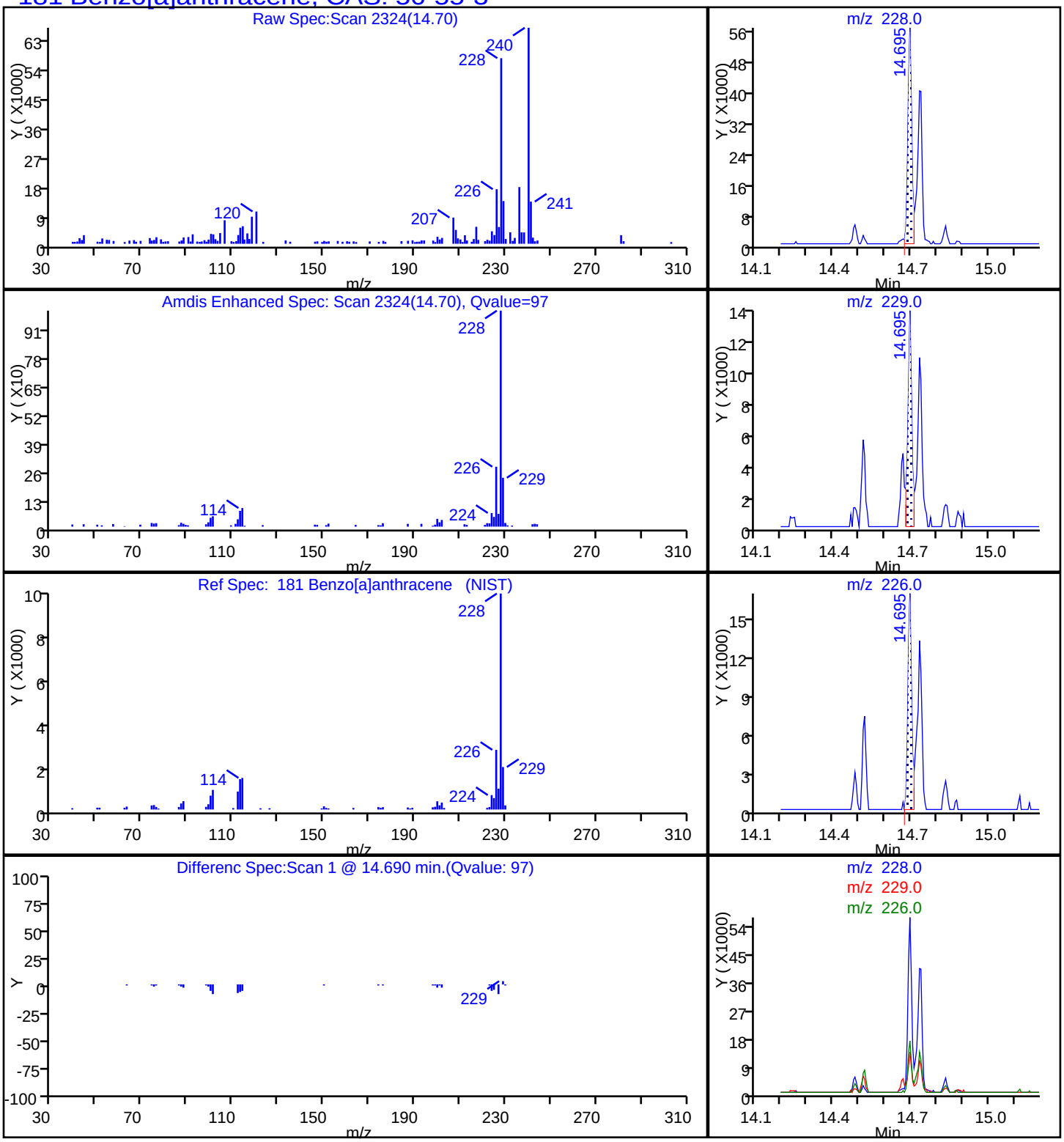
151 Anthracene, CAS: 120-12-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D				
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

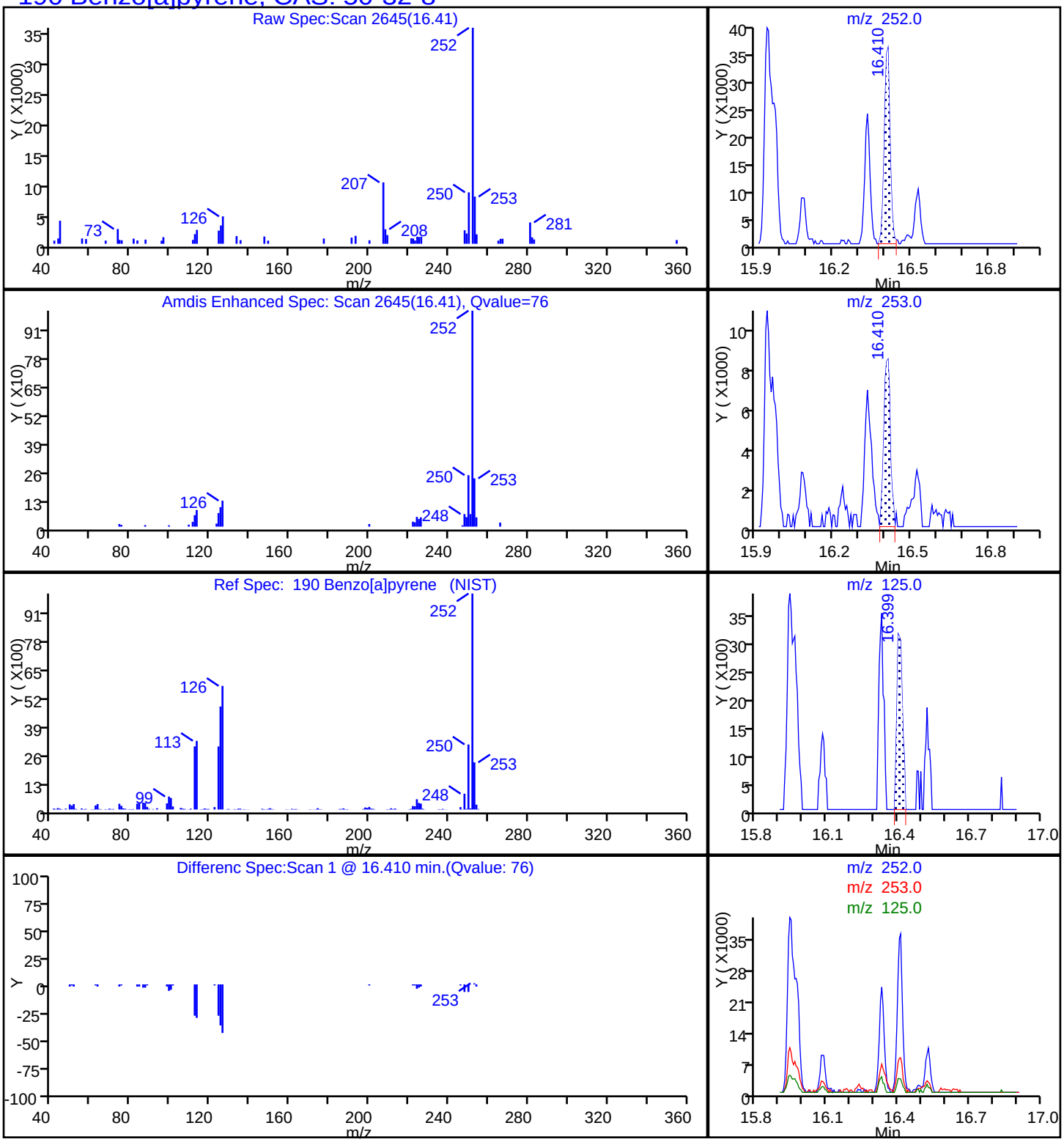
181 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D				
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

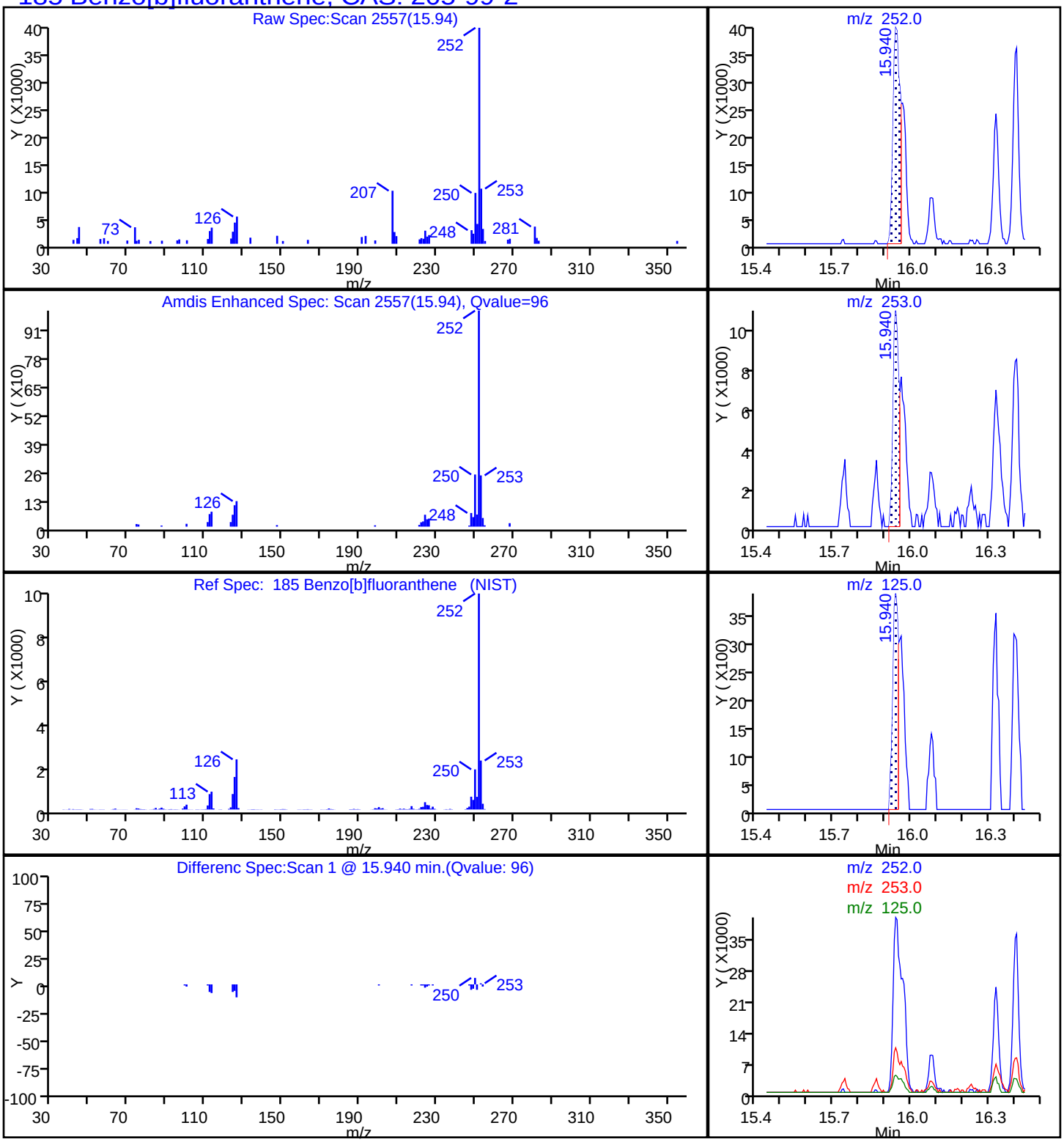
190 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D				
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

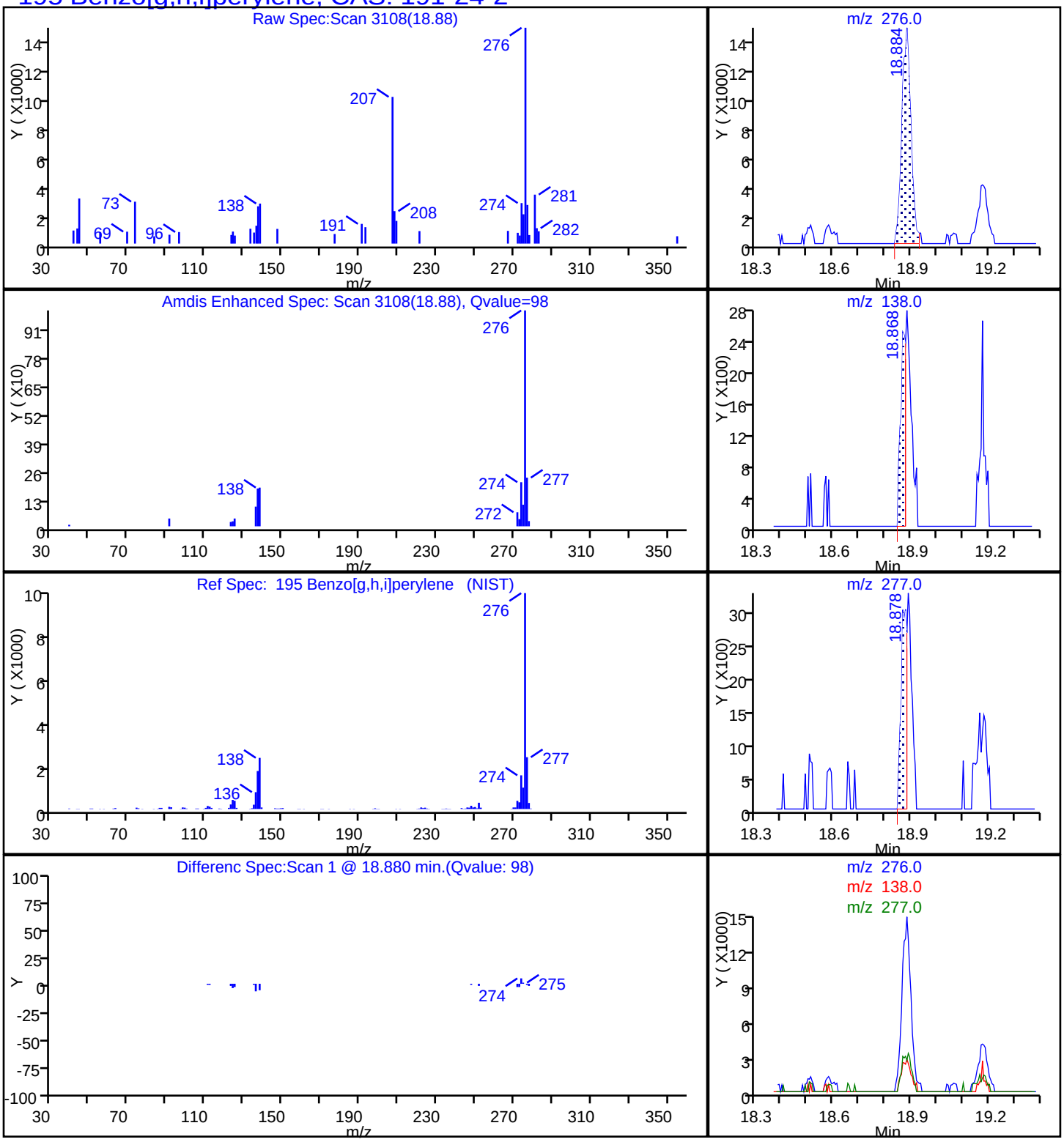
185 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D				
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

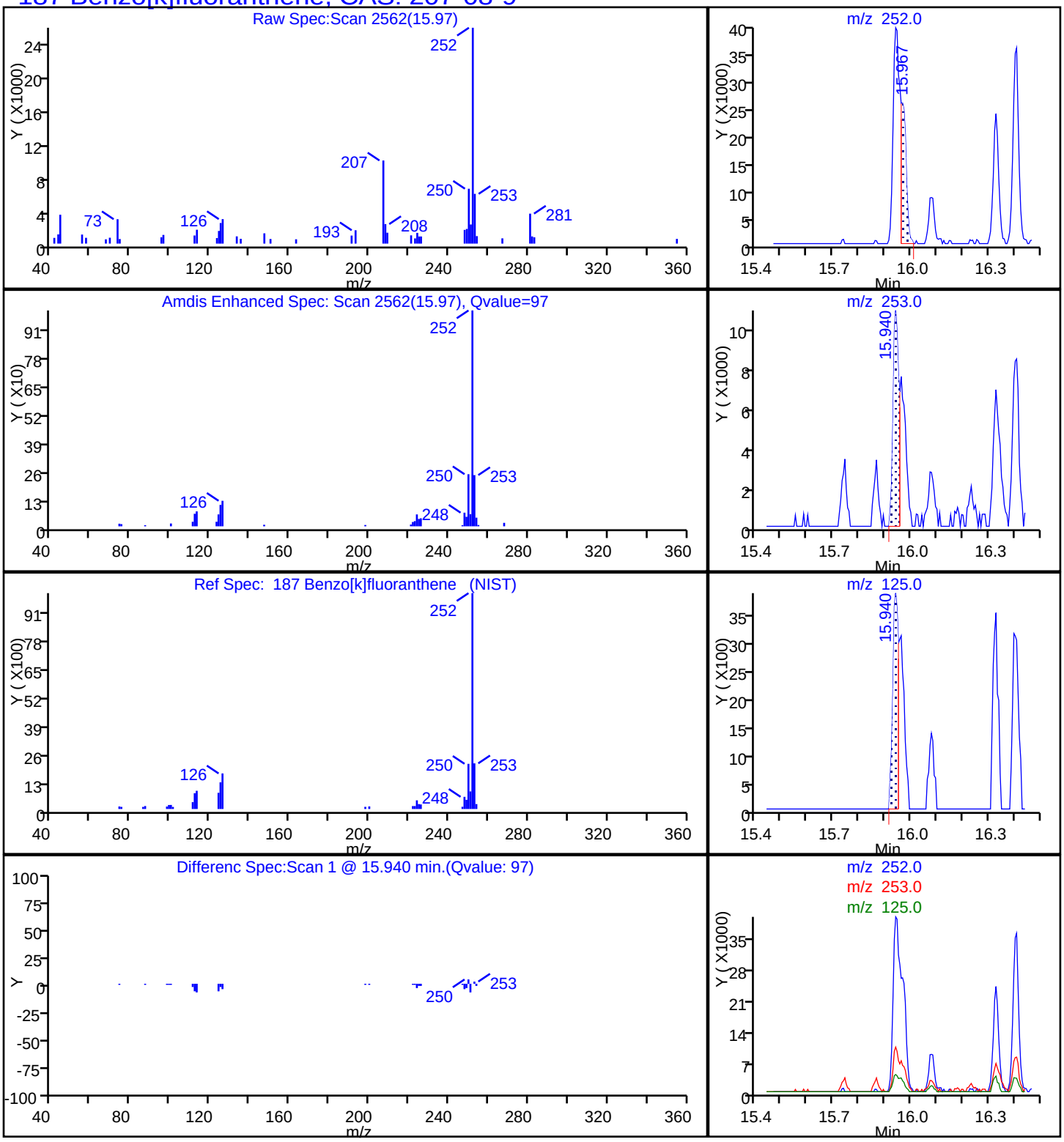
195 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D		
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2
Client ID:	NS-EAST-SOIL 0-2"		
Operator ID:	DR	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

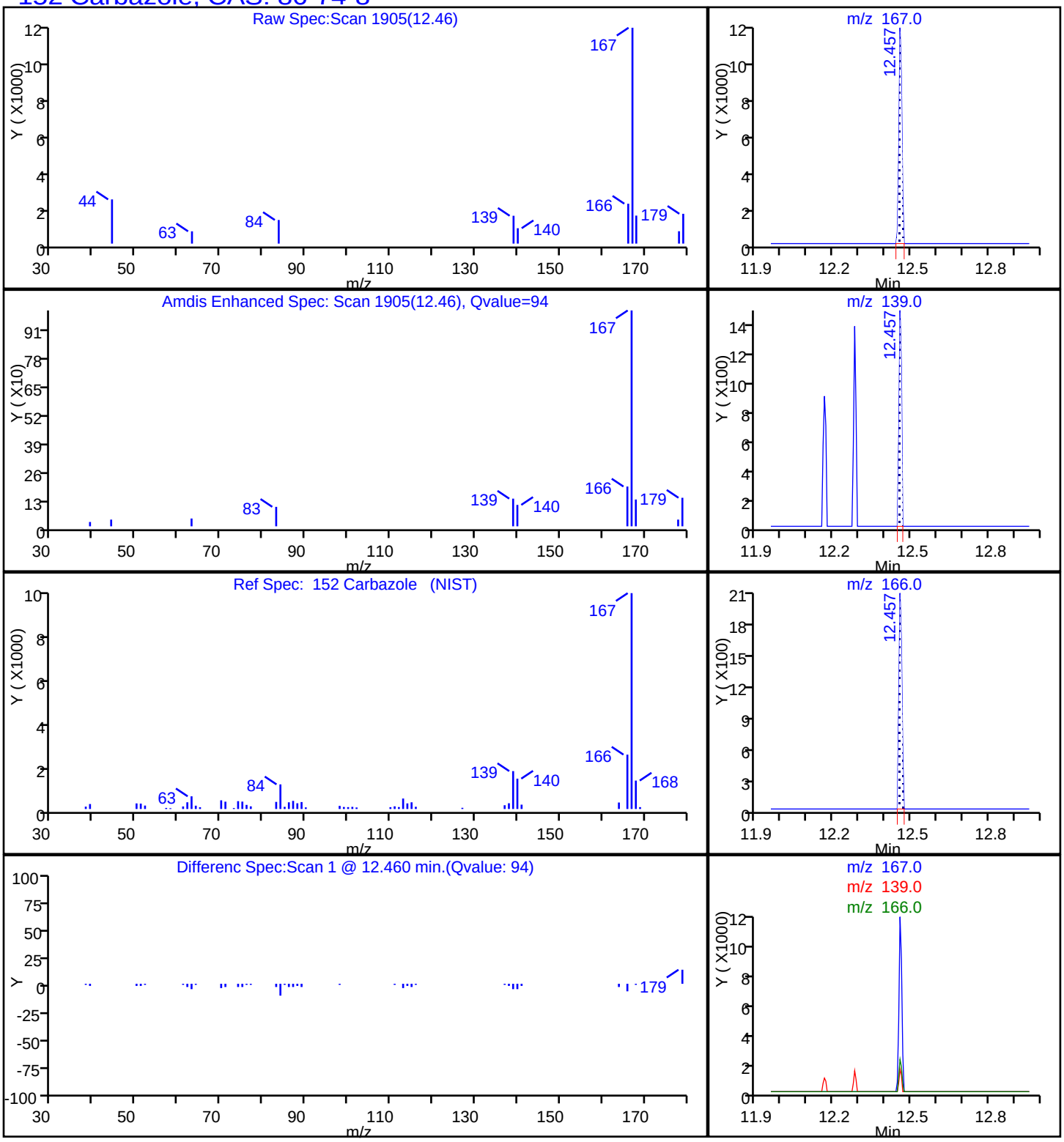
187 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D				
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

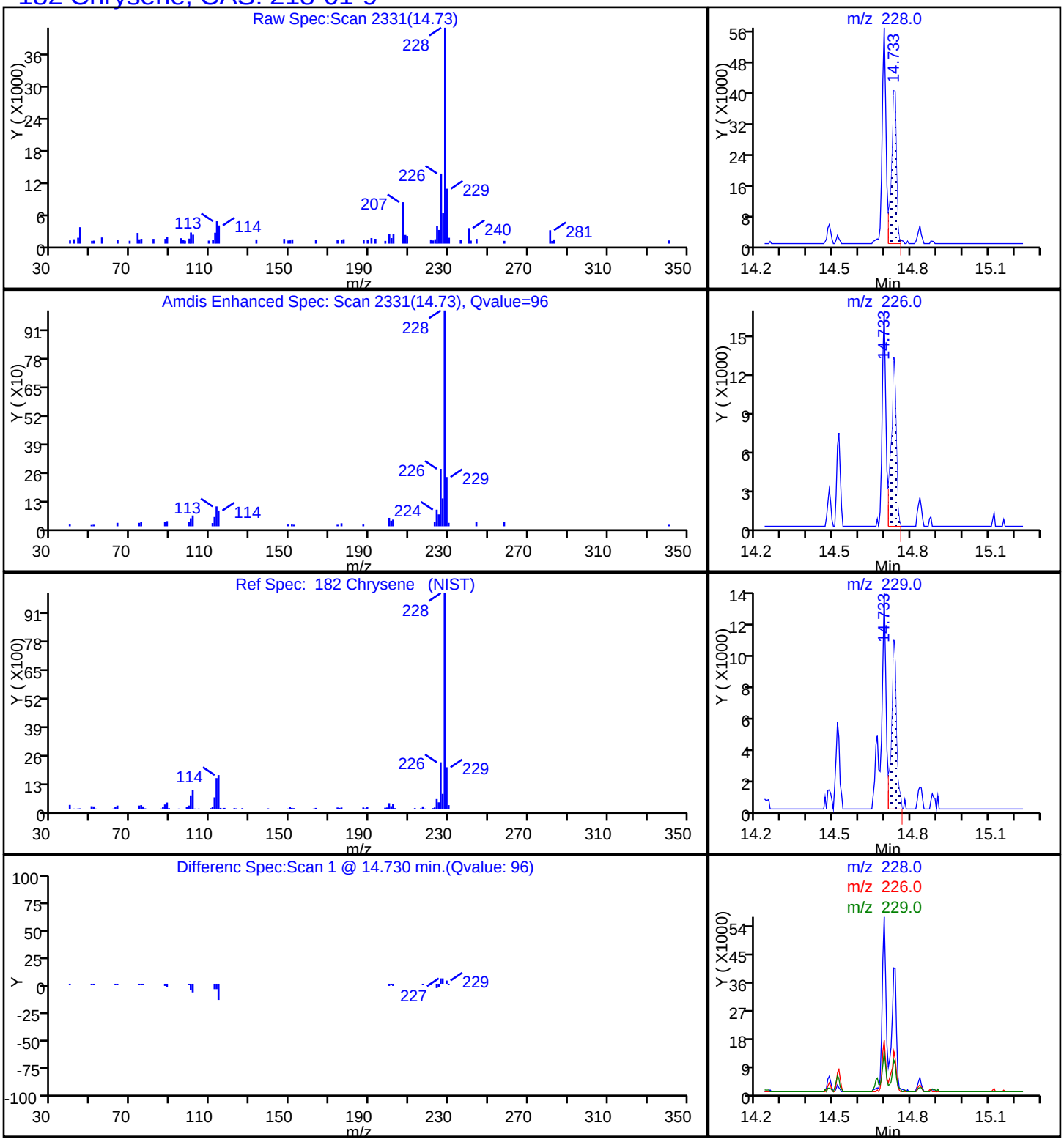
152 Carbazole, CAS: 86-74-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D		
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2
Client ID:	NS-EAST-SOIL 0-2"		
Operator ID:	DR	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

182 Chrysene, CAS: 218-01-9

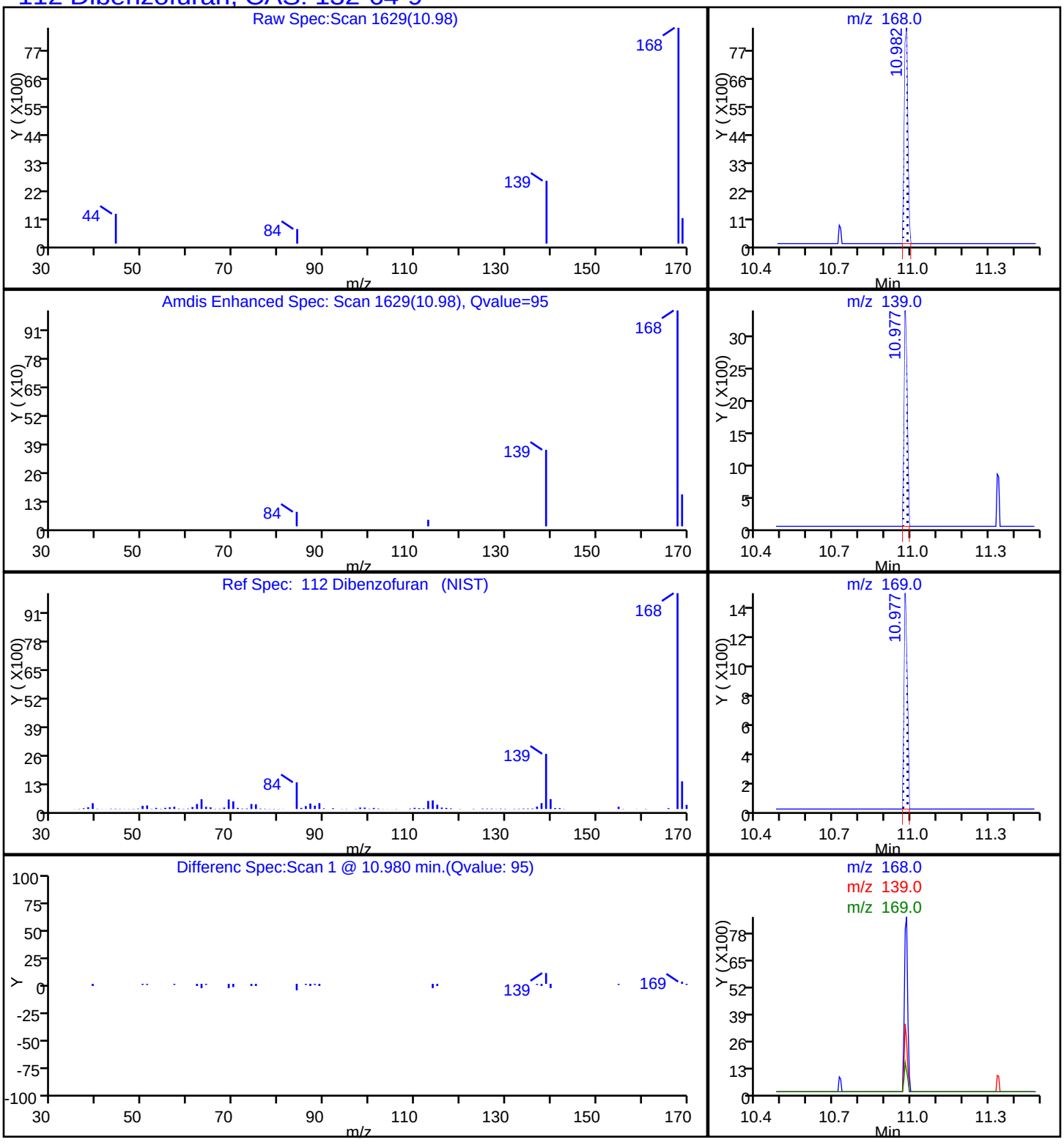


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D

Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2
Client ID:	NS-EAST-SOIL 0-2"		
Operator ID:	DR	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

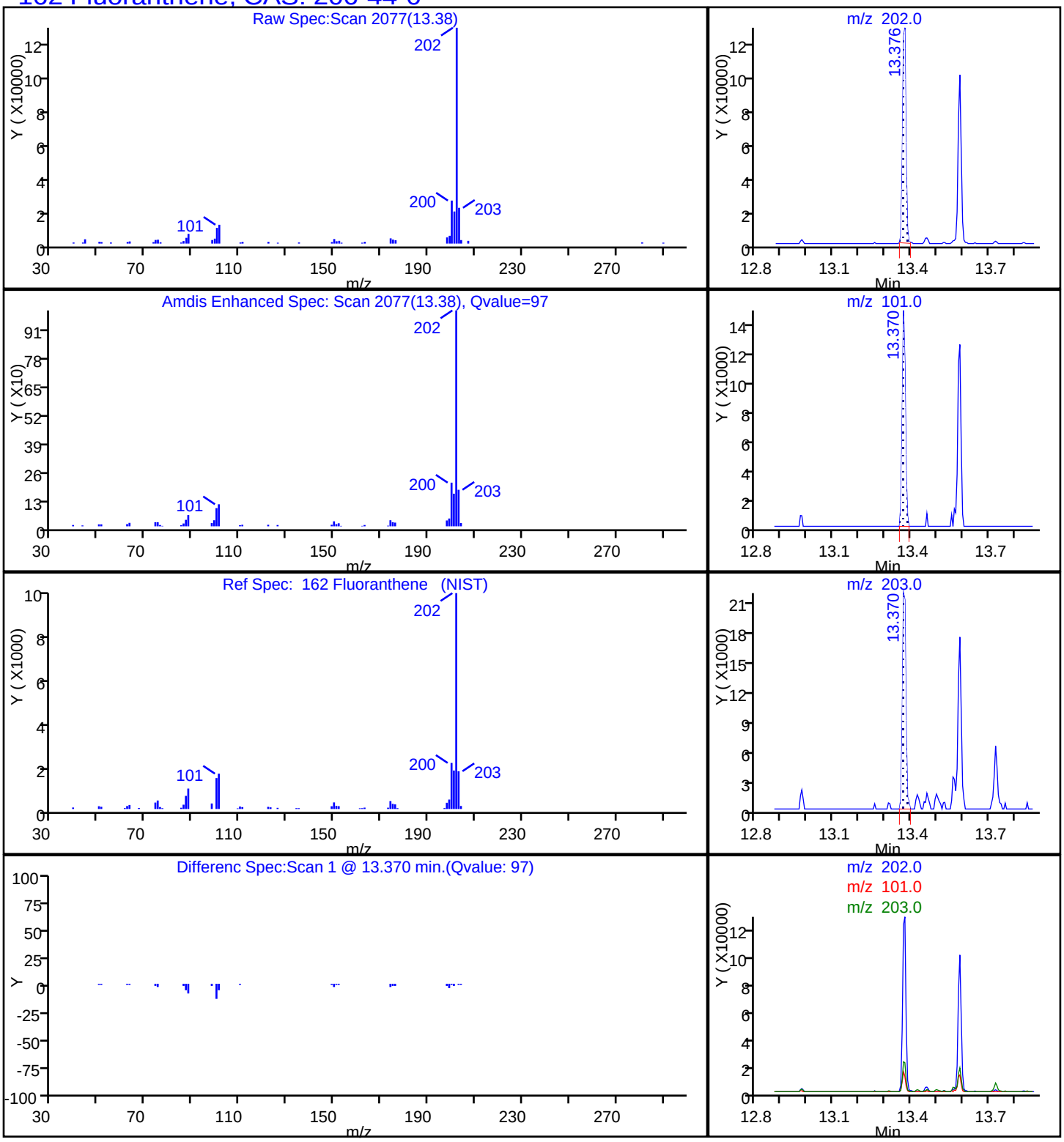
112 Dibenzofuran, CAS: 132-64-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D				
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

162 Fluoranthene, CAS: 206-44-0



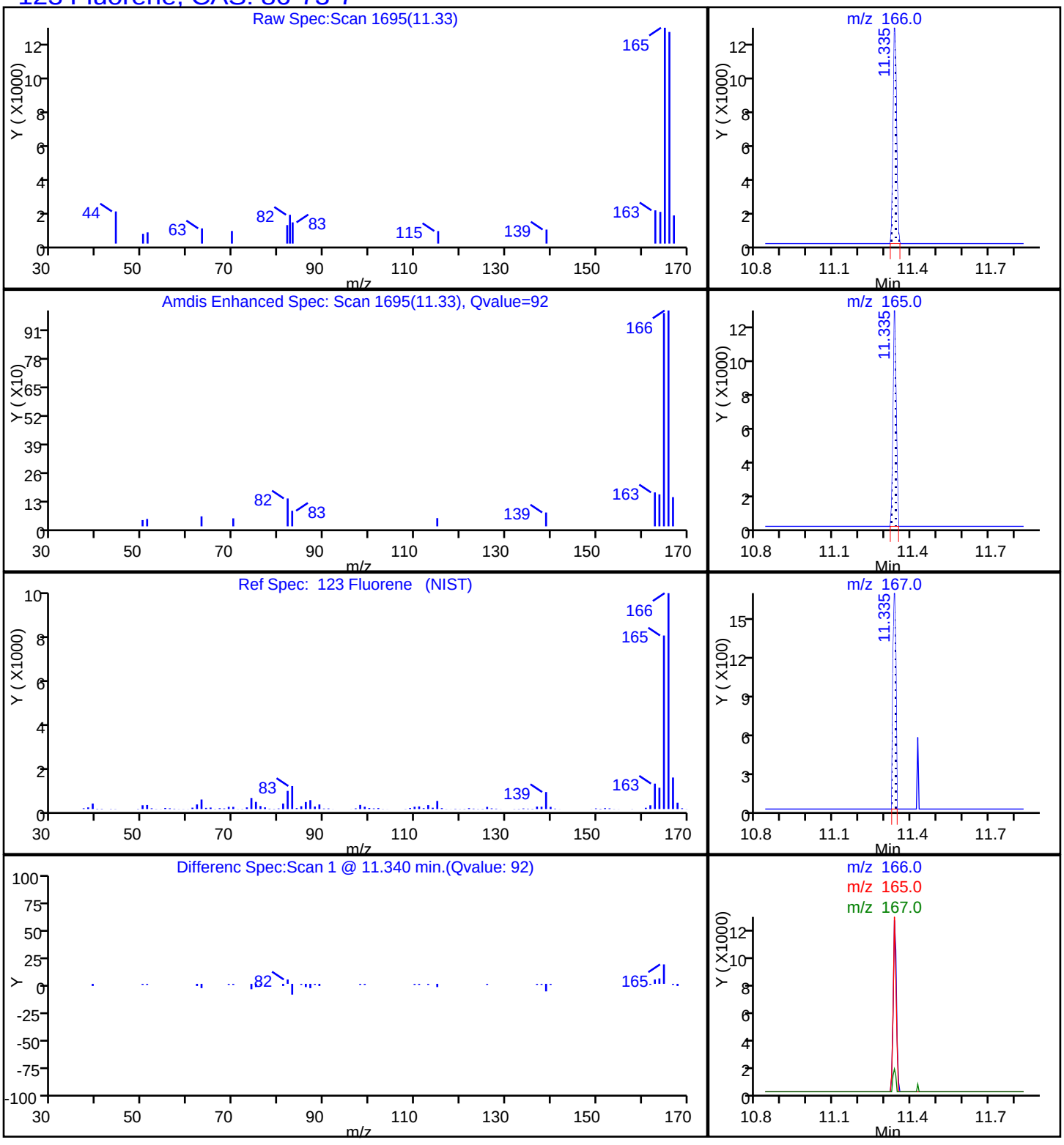
Report Date: 14-Nov-2017 11:50:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D

Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

123 Fluorene, CAS: 86-73-7



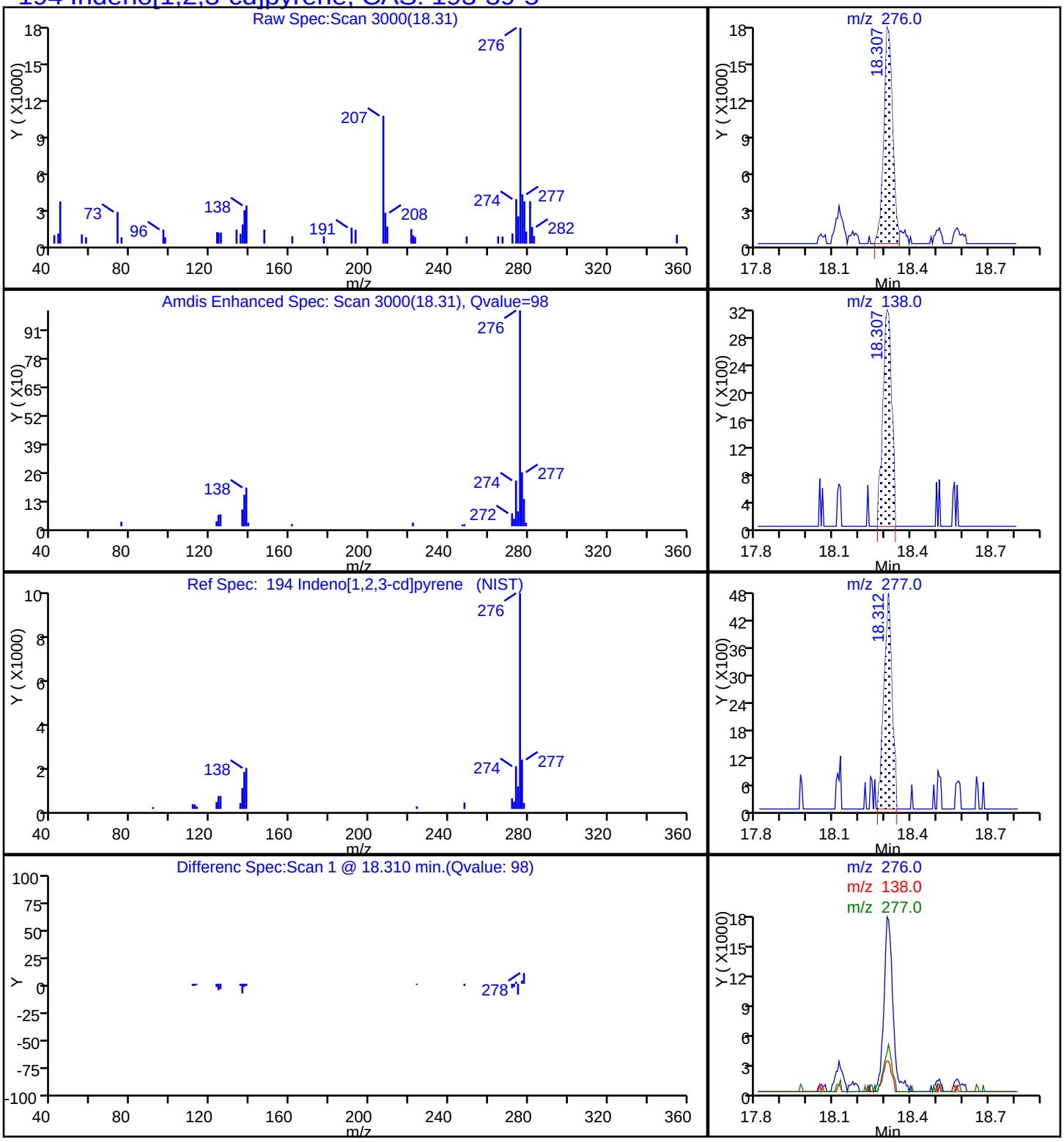
Report Date: 14-Nov-2017 11:50:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D

Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

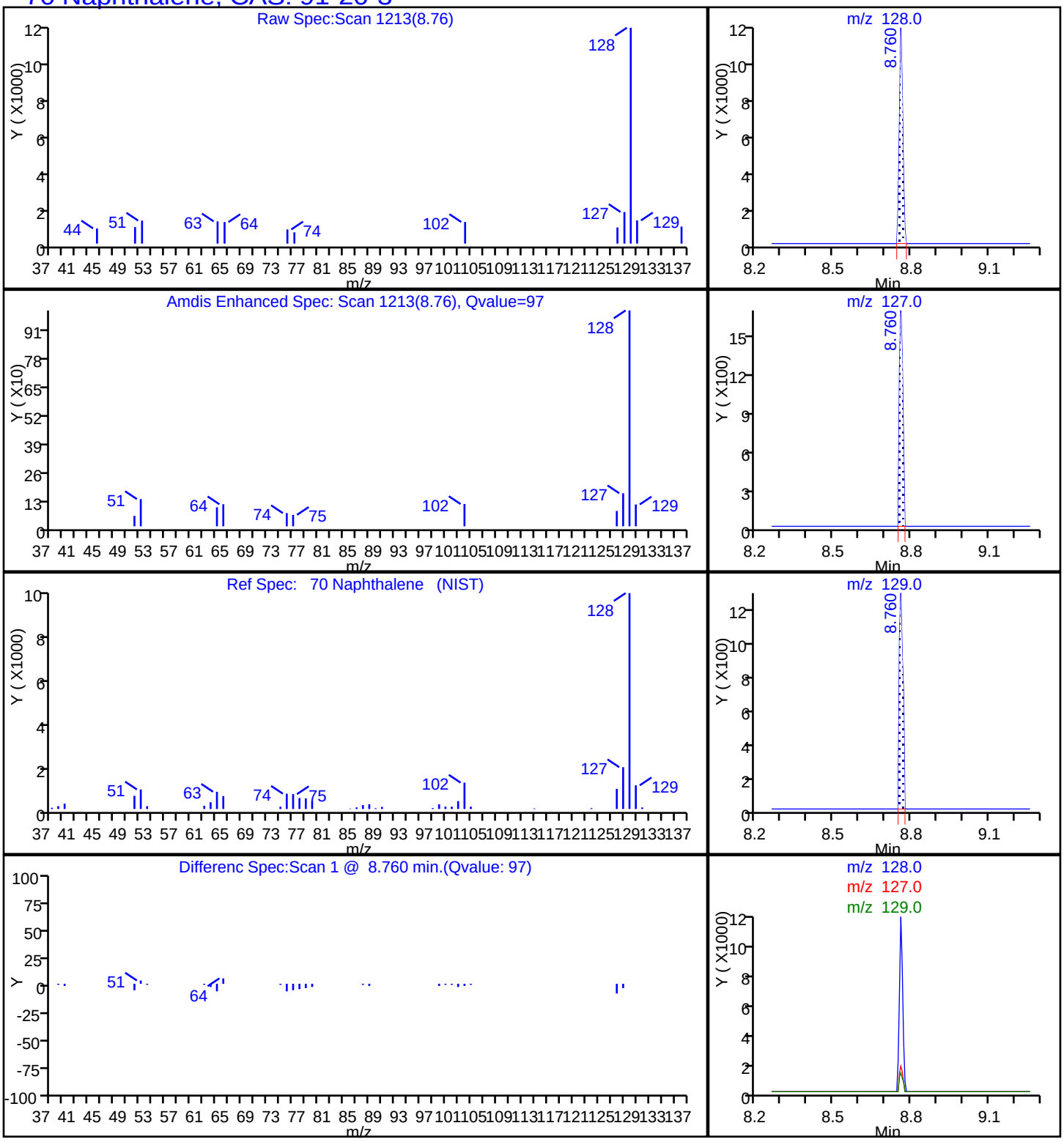
194 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D				
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

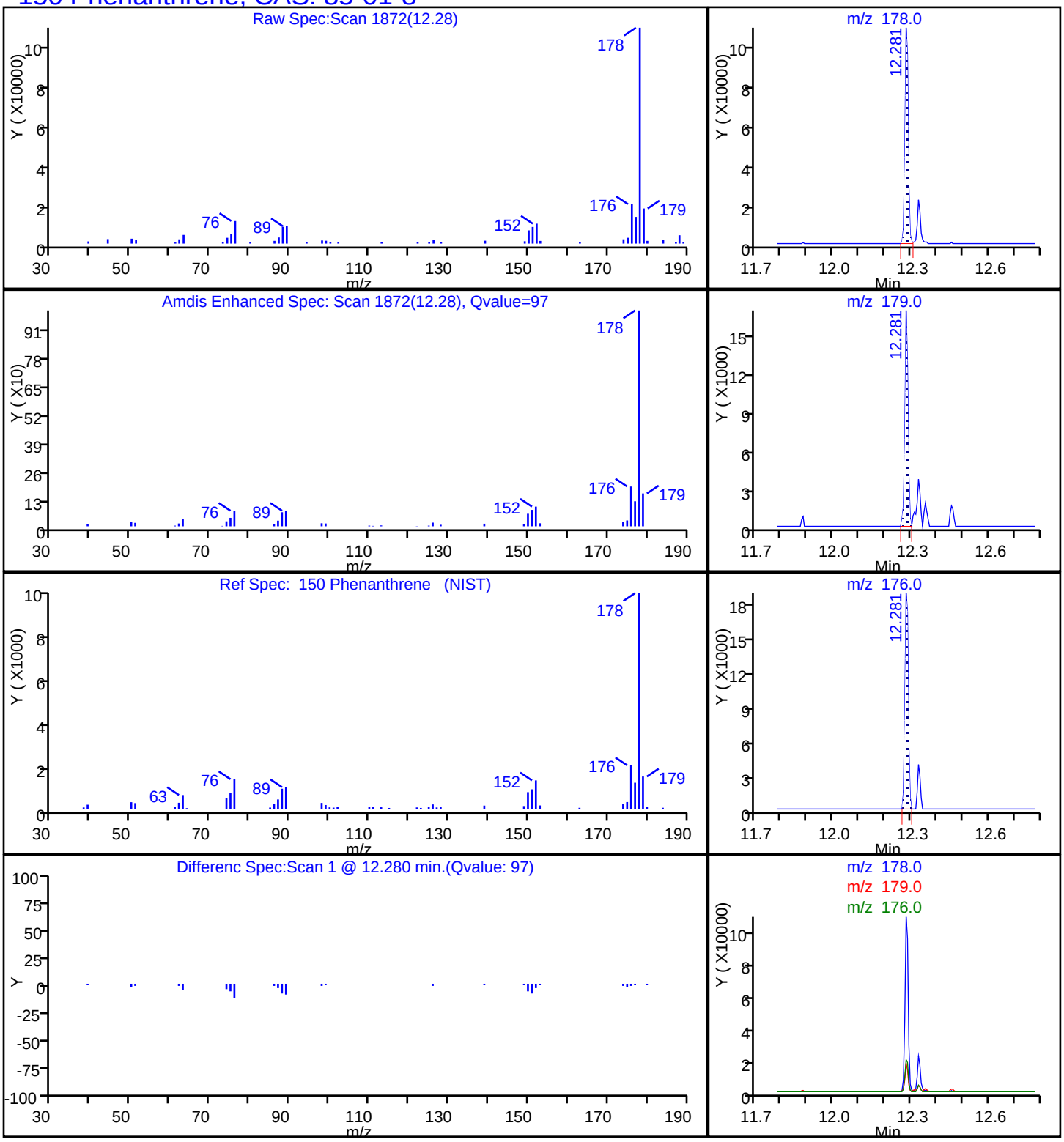
70 Naphthalene, CAS: 91-20-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D				
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

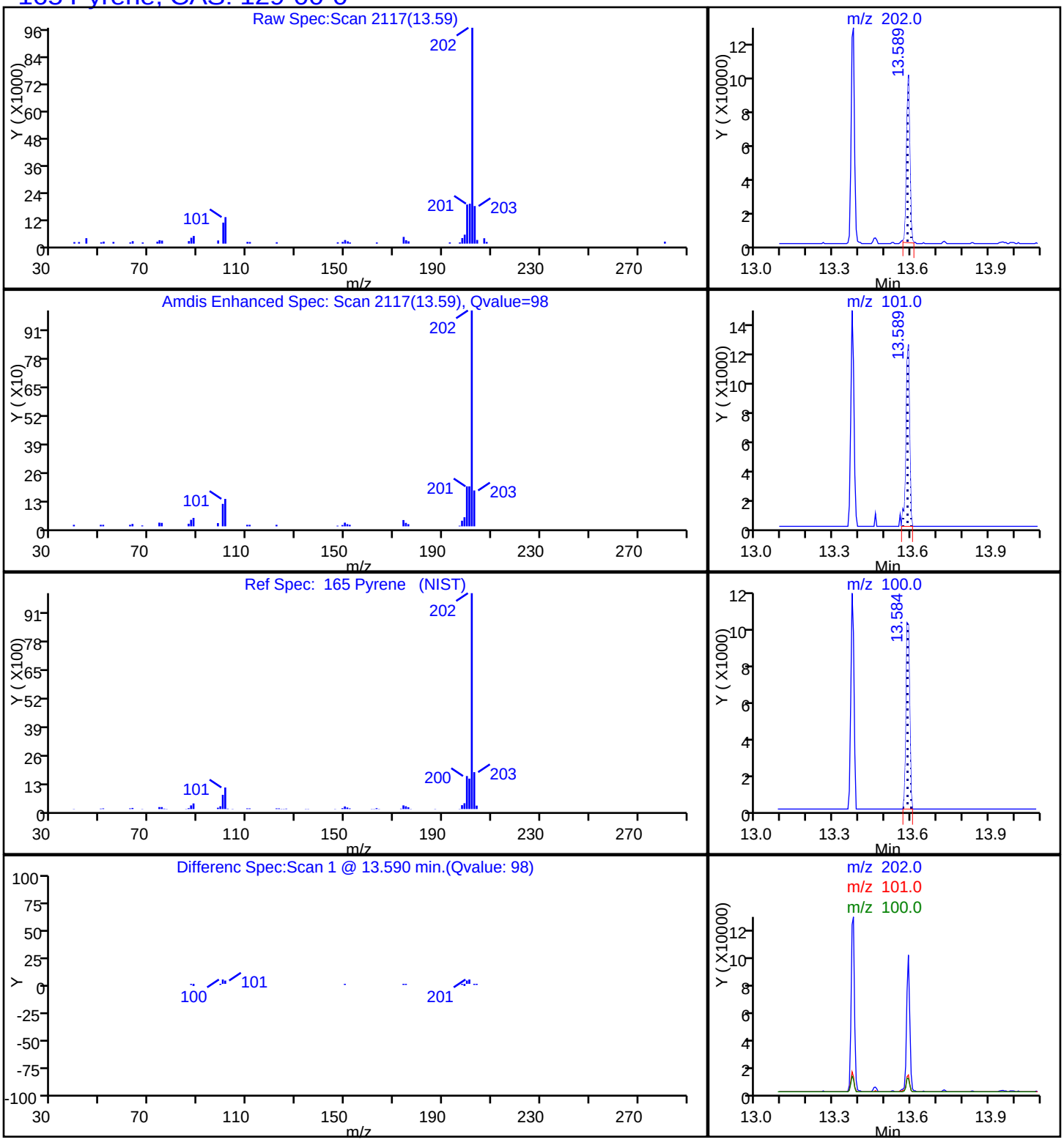
150 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D				
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

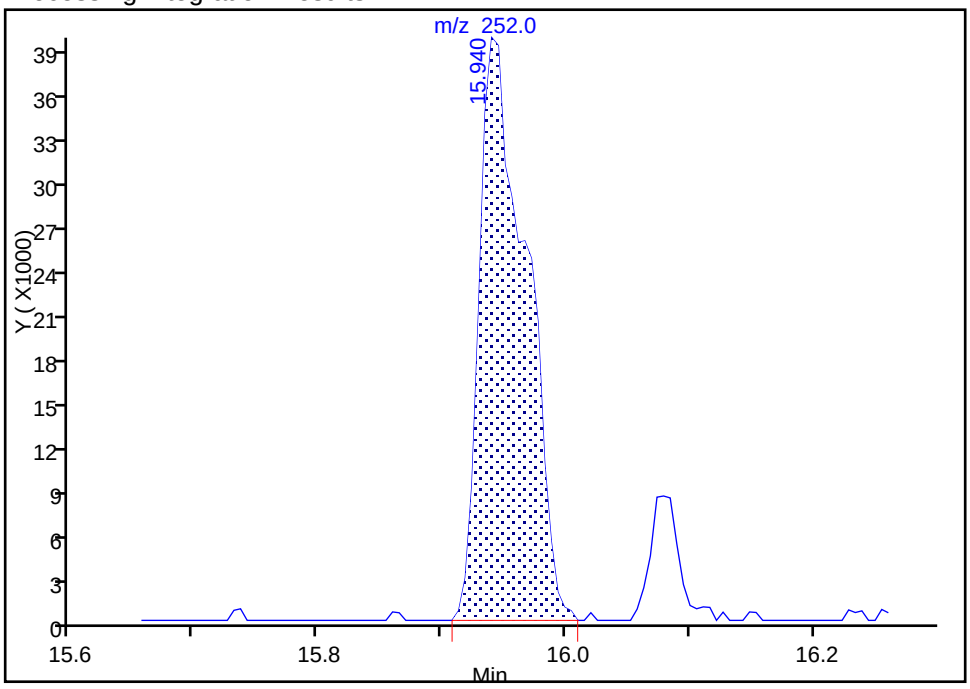
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Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

185 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

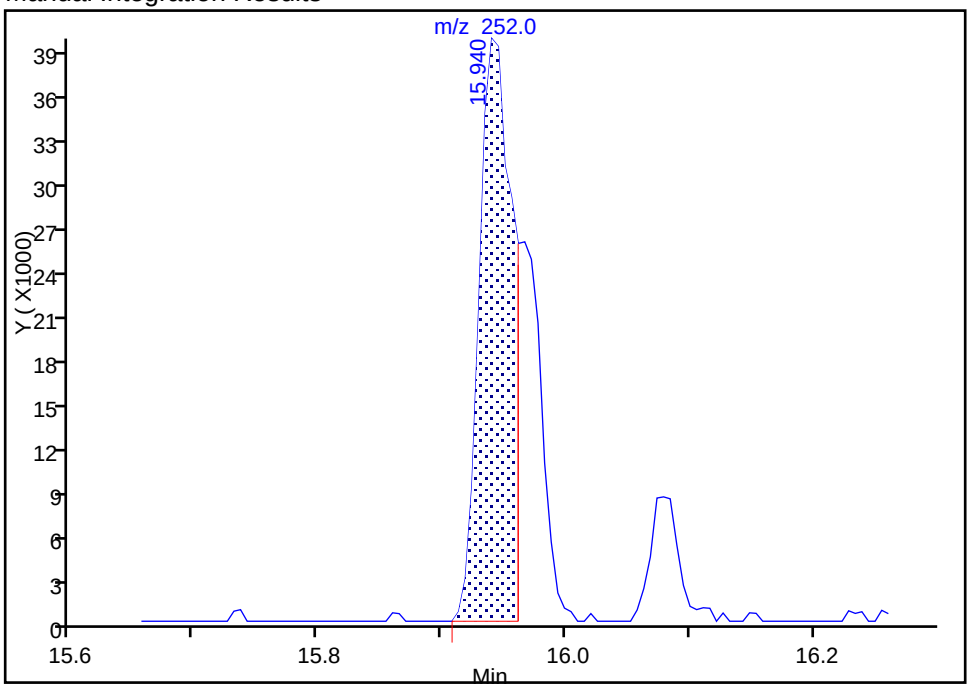
Processing Integration Results

RT: 15.94
Area: 102601
Amount: 6.972478
Amount Units: ng/uL



Manual Integration Results

RT: 15.94
Area: 73885
Amount: 5.021019
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:28:01

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

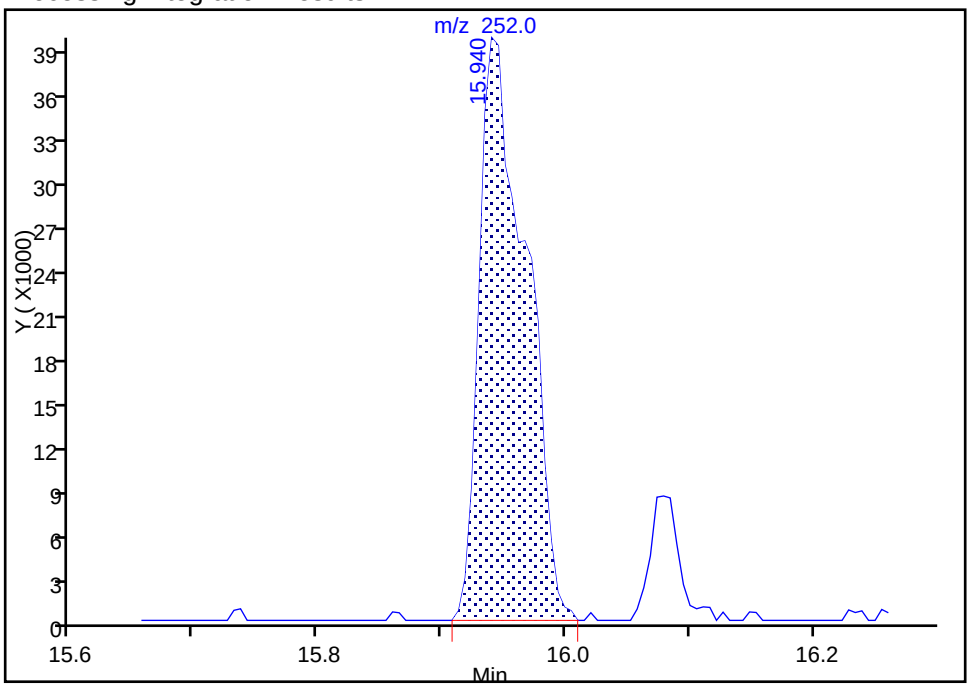
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328818.D				
Injection Date:	13-Nov-2017 17:03:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-2-A	Lab Sample ID:	480-127239-2		
Client ID:	NS-EAST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

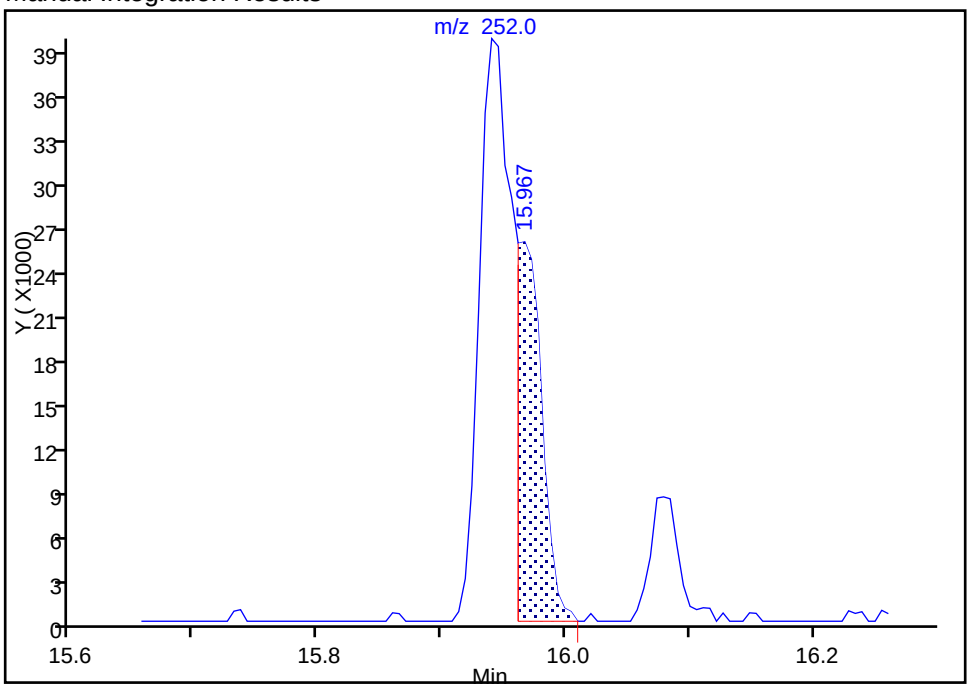
Processing Integration Results

RT: 15.94
Area: 102601
Amount: 6.796633
Amount Units: ng/uL



Manual Integration Results

RT: 15.97
Area: 36878
Amount: 2.442922
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:28:05

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" | Lab Sample ID: 480-127239-3

Matrix: Solid | Lab File ID: X207627.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.69(g) | Date Analyzed: 11/16/2017 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2200	330
108-60-1	bis (2-chloroisopropyl) ether	ND	F1	2200	450
95-95-4	2,4,5-Trichlorophenol	ND		2200	610
88-06-2	2,4,6-Trichlorophenol	ND		2200	450
120-83-2	2,4-Dichlorophenol	ND		2200	240
105-67-9	2,4-Dimethylphenol	ND		2200	540
51-28-5	2,4-Dinitrophenol	ND		22000	10000
121-14-2	2,4-Dinitrotoluene	ND		2200	460
606-20-2	2,6-Dinitrotoluene	ND		2200	260
91-58-7	2-Chloronaphthalene	ND		2200	370
95-57-8	2-Chlorophenol	ND		2200	410
91-57-6	2-Methylnaphthalene	ND		2200	450
95-48-7	2-Methylphenol	ND		2200	260
88-74-4	2-Nitroaniline	ND		4400	330
88-75-5	2-Nitrophenol	ND		2200	630
91-94-1	3,3'-Dichlorobenzidine	ND		4400	2600
99-09-2	3-Nitroaniline	ND		4400	620
534-52-1	4,6-Dinitro-2-methylphenol	ND		4400	2200
101-55-3	4-Bromophenyl phenyl ether	ND		2200	320
59-50-7	4-Chloro-3-methylphenol	ND		2200	560
106-47-8	4-Chloroaniline	ND	F2	2200	560
7005-72-3	4-Chlorophenyl phenyl ether	ND		2200	280
106-44-5	4-Methylphenol	ND		4400	260
100-01-6	4-Nitroaniline	ND		4400	1200
100-02-7	4-Nitrophenol	ND	F1	4400	1600
83-32-9	Acenaphthene	ND		2200	330
208-96-8	Acenaphthylene	730	J	2200	290
98-86-2	Acetophenone	ND		2200	300
120-12-7	Anthracene	1400	J F2 F1	2200	560
1912-24-9	Atrazine	ND		2200	780
100-52-7	Benzaldehyde	ND		2200	1800
56-55-3	Benzo(a)anthracene	3600	F2 F1	2200	220
50-32-8	Benzo(a)pyrene	3200	F2 F1	2200	330
205-99-2	Benzo(b)fluoranthene	4700	F2 F1	2200	360

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" | Lab Sample ID: 480-127239-3

Matrix: Solid | Lab File ID: X207627.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.69(g) | Date Analyzed: 11/16/2017 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	2300	F2 F1	2200	240
207-08-9	Benzo(k)fluoranthene	2500	F1	2200	290
111-91-1	Bis(2-chloroethoxy)methane	ND		2200	480
111-44-4	Bis(2-chloroethyl)ether	ND		2200	290
117-81-7	Bis(2-ethylhexyl) phthalate	ND	F1 *	2200	770
85-68-7	Butyl benzyl phthalate	ND	F1 *	2200	370
105-60-2	Caprolactam	ND		2200	670
86-74-8	Carbazole	860	J	2200	260
218-01-9	Chrysene	4000	F2 F1	2200	500
84-74-2	Di-n-butyl phthalate	ND		2200	380
117-84-0	Di-n-octyl phthalate	ND		2200	260
53-70-3	Dibenz(a,h)anthracene	ND	F2 F1	2200	400
132-64-9	Dibenzofuran	540	J	2200	260
84-66-2	Diethyl phthalate	ND	F1	2200	290
131-11-3	Dimethyl phthalate	ND		2200	260
206-44-0	Fluoranthene	7800	F2 F1	2200	240
86-73-7	Fluorene	760	J	2200	260
118-74-1	Hexachlorobenzene	ND		2200	300
87-68-3	Hexachlorobutadiene	ND		2200	330
77-47-4	Hexachlorocyclopentadiene	ND		2200	300
67-72-1	Hexachloroethane	ND		2200	290
193-39-5	Indeno(1,2,3-cd)pyrene	2200	F2 F1	2200	280
78-59-1	Isophorone	ND		2200	480
621-64-7	N-Nitrosodi-n-propylamine	ND		2200	380
86-30-6	N-Nitrosodiphenylamine	ND		2200	1800
91-20-3	Naphthalene	770	J	2200	290
98-95-3	Nitrobenzene	ND		2200	250
87-86-5	Pentachlorophenol	ND		4400	2200
85-01-8	Phenanthrene	5400	F2 F1	2200	330
108-95-2	Phenol	ND		2200	340
129-00-0	Pyrene	6500	F1	2200	260

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" | Lab Sample ID: 480-127239-3

Matrix: Solid | Lab File ID: X207627.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.69(g) | Date Analyzed: 11/16/2017 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	111		54-120
321-60-8	2-Fluorobiphenyl	91		60-120
367-12-4	2-Fluorophenol	74		52-120
4165-60-0	Nitrobenzene-d5	93		53-120
1718-51-0	p-Terphenyl-d14	75		65-121
4165-62-2	Phenol-d5	67		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D
Lims ID: 480-127239-D-3-A
Client ID: NS-SOUTH-SOIL 0-2"
Sample Type: Client
Inject. Date: 16-Nov-2017 18:12:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0067330-016
Operator ID: dr Instrument ID: HP5973X

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Nov-2017 11:33:08 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: richardsd Date: 20-Nov-2017 11:18:20

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.036	5.030	0.006	96	162686	40.0	
*	2 Naphthalene-d8	136	6.617	6.606	0.011	99	544936	40.0	
*	3 Acenaphthene-d10	164	8.679	8.674	0.005	97	269945	40.0	
*	4 Phenanthrene-d10	188	10.351	10.346	0.005	99	556562	40.0	
*	5 Chrysene-d12	240	12.771	12.766	0.005	99	539409	40.0	
*	6 Perylene-d12	264	13.893	13.888	0.005	99	502016	40.0	
$	7 2-Fluorophenol	112	3.198	3.161	0.037	92	15520	2.96	
$	8 Phenol-d5	99	4.640	4.608	0.032	93	17023	2.68	
$	9 Nitrobenzene-d5	82	5.757	5.730	0.027	88	20555	3.70	
$	10 2-Fluorobiphenyl	172	7.921	7.905	0.017	98	40736	3.65	
$	11 2,4,6-Tribromophenol	330	9.603	9.593	0.010	86	4195	4.43	
$	12 p-Terphenyl-d14	244	11.890	11.879	0.011	98	47301	3.01	
	199 2-Chlorotoluene	91		-0.700				ND	
	213 Chlorobenzotrifluoride N.O	1		-0.700				ND	
	191 N-Methylaniline	1		-0.700				ND	
	204 Chlorotoluene N.O.S	1		-0.700				ND	
	211 5-Ethyl-5-phenyl barbituri	1		-0.700				ND	
	205 Lidocaine	1		-0.700				ND	
	15 1,4-Dioxane	88		1.125				ND	
	16 N-Nitrosodimethylamine	42		1.344				ND	
	17 Pyridine	52		1.376				ND	
	18 2-Picoline	93		2.382				ND	
	19 N-Nitrosomethylethylamine	88		2.558				ND	
	20 Methyl methanesulfonate	80		3.098				ND	
	21 Acrylamide	44		3.146				ND	
	24 N-Nitrosodiethylamine	102		3.712				ND	
	22 4-Chloropyridine	78		3.828				ND	
	23 3-Chloropyridine	78		3.908				ND	
	25 Ethyl methanesulfonate	79		4.187				ND	
	26 2-Chloropyridine	78		4.400				ND	
	27 Benzaldehyde	77		4.421				ND	
	29 Aniline	93		4.587				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
28 Phenol	94		4.624				ND	
31 Bis(2-chloroethyl)ether	93		4.699				ND	
32 2-Chlorophenol	128		4.742				ND	
30 Pentachloroethane	167		4.812				ND	
35 n-Decane	57		4.865				ND	
36 1,3-Dichlorobenzene	146		4.934				ND	
37 1,4-Dichlorobenzene	146		5.036				ND	
34 n,n'-Dimethylaniline	120		5.162				ND	
39 1,2-Dichlorobenzene	146		5.228				ND	
38 Benzyl alcohol	108		5.233				ND	
33 p-Fluoroaniline	111		5.259				ND	
229 Indene	115		5.346				ND	
42 2,2'-oxybis[1-chloropropan	45		5.410				ND	
40 2-Methylphenol	108		5.410				ND	
45 Acetophenone	105		5.549				ND	
47 N-Nitrosodi-n-propylamine	70		5.575				ND	
46 4-Methylphenol	108		5.618				ND	
49 4-Methylbenzenamine	106		5.629				ND	
50 Hexachloroethane	117		5.645				ND	
43 N-Nitrosopyrrolidine	100		5.683				ND	
44 N-Nitrosomorpholine	56		5.742				ND	
52 Nitrobenzene	77		5.752				ND	
48 2-Toluidine	106		5.763				ND	
51 o-Anisidine	108		5.906				ND	
53 2,6-Dichloropyridine	112		5.996				ND	
56 Isophorone	82		6.056				ND	
212 2,4-Dichlorotoluene	125		6.093				ND	
54 N-Nitrosopiperidine	114		6.100				ND	
57 2-Chloroaniline	127		6.126				ND	
58 2-Nitrophenol	139		6.147				ND	
206 1,3,5-Trichlorobenzene	180		6.211				ND	
59 2,4-Dimethylphenol	107		6.259				ND	
61 Tetraethyl lead	237		6.297				ND	
62 Bis(2-chloroethoxy)methane	93		6.361				ND	
65 2,4-Dichlorophenol	162		6.457				ND	
60 o,o',o''-Triethylphosphoro	198		6.490				ND	
64 Benzoic acid	105		6.505				ND	
67 1,2,4-Trichlorobenzene	180		6.542				ND	
69 Naphthalene	128	6.644	6.617	0.027	97	25036	1.74	
63 alpha,alpha-Dimethyl phene	58		6.655				ND	
299 1,3-Dibromobenzene TIC	236		6.676				ND	
41 Alpha-Terpineol	59		6.681				ND	
184 4-Chlorophenol	128		6.708				ND	
66 5-Methyl-o-Anisidine	122		6.716				ND	
71 4-Chloroaniline	127		6.719				ND	
70 2,6-Dichlorophenol	162		6.724				ND	
300 1,4-Dibromobenzene TIC	236		6.724				ND	
73 Hexachlorobutadiene	225		6.804				ND	
72 Hexachloropropene	213		6.896				ND	
78 Caprolactam	113		7.141				ND	
74 Quinoline	129		7.179				ND	
77 p-Phenylene diamine	108		7.297				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
76 N-Nitrosodi-n-butylamine	84		7.302				ND	
79 4-Chloro-3-methylphenol	107		7.349				ND	
82 2-Methylnaphthalene	142	7.472	7.450	0.022	92	6583	0.6615	
267 2,4,5-Trichlorotoluene	159		7.466				ND	
80 Safrole, Total	162		7.532				ND	
55 Phthalic anhydride	104		7.552				ND	
83 1-Methylnaphthalene	142	7.584	7.563	0.021	93	4479	0.4932	
84 Hexachlorocyclopentadiene	237		7.653				ND	
85 1,2,4,5-Tetrachlorobenzene	216		7.659				ND	
269 2,3-Dichlorobenzenamine	161		7.803				ND	
86 2,4,6-Trichlorophenol	196		7.814				ND	
87 2,4,5-Trichlorophenol	196		7.856				ND	
292 Isosafrole Peak 1	162		7.873				ND	
90 1,1'-Biphenyl	154		8.017				ND	
91 2-Chloronaphthalene	162		8.017				ND	
270 1,2,3,4 -Tetrachlorobenzen	216		8.033				ND	
89 Isosafrole	162		8.141				ND	
294 Isosafrole Peak 2	162		8.141				ND	
93 2-Nitroaniline	65		8.166				ND	
92 1-Chloronaphthalene	162		8.194				ND	
68 Dicyclohexylamine	138		8.279				ND	
94 1,4-Naphthoquinone	158		8.386				ND	
96 Dimethyl phthalate	163		8.412				ND	
97 1,3-Dinitrobenzene	168		8.423				ND	
99 2,6-Dinitrotoluene	165		8.460				ND	
95 1,4-Dinitrobenzene	168		8.477				ND	
100 Acenaphthylene	152	8.514	8.497	0.017	98	20936	1.65	
101 3-Nitroaniline	138		8.652				ND	
102 Acenaphthene	153	8.717	8.706	0.011	96	5969	0.7070	
103 2,4-Dinitrophenol	184		8.775				ND	
107 Dibenzofuran	168	8.920	8.909	0.011	96	15123	1.23	
104 4-Nitrophenol	109		8.909				ND	
106 2,4-Dinitrotoluene	165		8.930				ND	
105 Pentachlorobenzene	250		9.022				ND	
110 2,3,4,6-Tetrachlorophenol	232		9.074				ND	
108 1-Naphthylamine	143		9.156				ND	
109 2,3,5,6-Tetrachlorophenol	232		9.177				ND	
112 Diethyl phthalate	149		9.245				ND	
111 2-Naphthylamine	143		9.246				ND	
138 Hexadecane	57		9.288				ND	
115 Fluorene	166	9.315	9.304	0.011	97	17081	1.72	
116 4-Chlorophenyl phenyl ethe	204		9.336				ND	
118 4-Nitroaniline	138		9.363				ND	
119 4,6-Dinitro-2-methylphenol	198		9.406				ND	
114 Thionazin	97		9.465				ND	
120 N-Nitrosodiphenylamine	169		9.480				ND	
121 Diphenylamine	169		9.480				ND	
117 N-Nitro-o-toluidine	152		9.492				ND	
122 Azobenzene	77		9.513				ND	
123 1,2-Diphenylhydrazine	77		9.513				ND	
81 Tributyl phosphate	99		9.523				ND	
124 Sulfotepp	322		9.845				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
130 4-Bromophenyl phenyl ether	248		9.892				ND	
131 Hexachlorobenzene	284		9.945				ND	
125 1,3,5-Trinitrobenzene	213		9.957				ND	
295 Diallate Peak 1	43		9.962				ND	
127 Diallate	43		9.962				ND	
128 Phorate	75		9.968				ND	
129 Phenacetin	108		10.010				ND	
297 Diallate Peak 2	43		10.053				ND	
88 Simazine	201		10.079				ND	
133 Atrazine	200		10.116				ND	
132 Dimethoate	87		10.149				ND	
134 Pentachlorophenol	266		10.170				ND	
135 4-Aminobiphenyl	169	10.346	10.315	0.031	60	876	0.0788	
136 Pentachloronitrobenzene	237		10.320				ND	
113 n-Octadecane	57		10.330				ND	
141 Phenanthrene	178	10.373	10.367	0.006	100	173481	12.2	
137 Pronamide	173		10.411				ND	
142 Anthracene	178	10.426	10.421	0.005	98	47329	3.16	
140 Disulfoton	88		10.523				ND	
139 Dinoseb	211		10.523				ND	
143 Carbazole	167	10.613	10.602	0.011	99	26441	1.96	
98 Alachlor	160		10.779				ND	
144 Methyl parathion	109		10.892				ND	
271 2-Methylanthracene	192	10.971	10.966	0.005	58	13119	NC	
145 Di-n-butyl phthalate	149		10.992				ND	
148 Anthraquinone	180	11.174	11.169	0.005	54	4358	2.41	
147 4-Nitroquinoline-1-oxide	190		11.271				ND	
146 Ethyl Parathion	97		11.271				ND	
149 Methapyrilene	58		11.367				ND	
151 Isodrin	193	11.543	11.506	0.037	58	426	1.02	
152 Fluoranthene	202	11.521	11.516	0.005	99	293660	17.6	
153 1-Hydroxyanthraquinone	224		11.564				ND	
150 Octachlorostyrene	308		11.564				ND	
154 Benzidine	184		11.660				ND	
155 Pyrene	202	11.724	11.714	0.010	99	223503	14.7	
157 1,4-Dihydroxyanthraquinone	240		11.975				ND	
293 Aramite Peak 1	185		12.008				ND	
296 Aramite Peak 2	185		12.072				ND	
156 Aramite, Total	185		12.072				ND	
158 p-Dimethylamino azobenzene	120		12.131				ND	
159 Chlorobenzilate	139		12.179				ND	
160 Famphur	218		12.269				ND	
162 Butyl benzyl phthalate	149		12.323				ND	
126 Kepone	272		12.323				ND	
163 9-Octadecenamide	72		12.349				ND	
161 3,3'-Dimethylbenzidine	212		12.425				ND	
164 2-Acetylaminofluorene	181		12.639				ND	
166 3,3'-Dichlorobenzidine	252		12.745				ND	
167 Benzo[a]anthracene	228	12.761	12.750	0.011	95	125316	8.13	
169 Chrysene	228	12.787	12.782	0.005	99	127221	9.01	
172 Bis(2-ethylhexyl) phthalat	149		12.814				ND	
165 4,4'-Methylene bis(2-chlor	231		12.874				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
170 6-Methylchrysene	242	13.252	13.280	-0.028	66	3953	0.3757	
168 Di-n-octyl phthalate	149		13.322				ND	
174 Benzo[b]fluoranthene	252	13.610	13.599	0.011	99	154308	10.7	M
175 Benzo[k]fluoranthene	252	13.621	13.621	0.000	97	91052	5.58	M
173 7,12-Dimethylbenz(a)anthra	256		13.729				ND	
268 Benzo[e]pyrene	252	13.850	13.840	0.010	96	107176	NC	
177 Benzo[a]pyrene	252	13.850	13.840	0.010	99	107176	7.22	
178 3-Methylcholanthrene	252		14.220				ND	
176 Hexachlorophene	196		14.501				ND	
179 Dibenz[a,h]acridine	279	14.630	14.621	0.009	19	1629	0.1322	
180 Indeno[1,2,3-cd]pyrene	276	14.646	14.636	0.010	93	86973	5.09	
181 Dibenz(a,h)anthracene	278		14.646				ND	
182 Benzo[g,h,i]perylene	276	14.849	14.839	0.010	98	76897	5.22	
183 Dibenzo[a,e]pyrene	302		19.913				ND	
217 1-Bromopropane	1		-0.700				ND	
215 1-Methylcyclopentanol	1		-0.700				ND	
275 1,2,3-Trimethylbenzene	105		-0.700				ND	
225 2,4-Toluene diamine	1		-0.700				ND	
278 Photomirex TIC	1		-0.700				ND	
223 2-Chlorobenzotrifluoride	1		-0.700				ND	
221 CBF-500	1		-0.700				ND	
195 Phenylacetic Acid	1		-0.700				ND	
287 2,6-Dichlorotoluene TIC	1		-0.700				ND	
219 alpha,alpha-Dimethyl phene	1		-0.700				ND	
208 n,n'-Dimethylacetamide	1		-0.700				ND	
216 4-Chlorobenzotrifluoride	1		-0.700				ND	
291 3-Chlorobenzotrifluoride T	1		-0.700				ND	
185 Phenylmercaptan	110		-0.700				ND	
200 Dibenzo[a,h]pyrene	1		-0.700				ND	
188 CAG-800	1		-0.700				ND	
272 Benzophenone	1		-0.700				ND	
194 CN-500	1		-0.700				ND	
224 CBF-400	1		-0.700				ND	
209 7H-Dibenzo[c,g]carbazole	1		-0.700				ND	
298 2-Aminopyridine TIC	1		-0.700				ND	
274 Phenyl ether	1		-0.700				ND	
193 Dibenz(a,i)pyrene	1		-0.700				ND	
186 Dibenz[a,j]acridine	279		-0.700				ND	
201 2,3-Dichlorophenol	1		-0.700				ND	
273 4-tert-Octylphenol	1		-0.700				ND	
202 4-Chlorotoluene	91		-0.700				ND	
289 2-Chlorobenzotrifluoride T	1		-0.700				ND	
277 1,4-Dioxane TIC	1		-0.700				ND	
196 CU-600	1		-0.700				ND	
210 3-Chlorotoluene	1		-0.700				ND	
207 3-Chlorobenzotrifluoride	1		-0.700				ND	
290 2,4-Dichlorotoluene TIC	1		-0.700				ND	
190 Benzeneacetonitrile	1		-0.700				ND	
192 NVF-400	1		-0.700				ND	
203 Pendimethalin	1		-0.700				ND	
276 4-Chloro-3-nitro-alpha,alp	1		-0.700				ND	
S 236 3 & 4 Methylphenol	108		-0.700				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
S 239 EPH Adjustment 1	1		-0.700				ND	
S 238 3-Methylphenol	1		-0.700				ND	
S 237 Total Cresols	1		-0.700				ND	
T 306 Fluorobenzene TIC	96		0.976				ND	
T 311 1-Bromo-2-chloroethane TIC	63		1.328				ND	
T 301 Ethylene Dibromide TIC	107		2.194				ND	
T 288 4-Chlorobenzotrifluoride T	180		2.942				ND	
T 308 1-Bromo-3-fluorobenzene TI	95		3.855				ND	
T 304 4-Bromofluorobenzene TIC	174		4.026				ND	
T 305 1,2-dichloro-4-(trifluorom	214		4.865				ND	
T 307 2-Bromopyridine TIC	78		5.169				ND	
T 245 2,4-Xylidine TIC	121		5.300				ND	
T 242 5-Methyl-o-Anisidine TIC	122		5.300				ND	
T 240 o-Anisidine TIC	108		5.300				ND	
T 243 Tris(2,3-dibromopropyl)pho	201		5.300				ND	
T 241 1,3-phenylenediamine TIC	108		5.300				ND	
T 244 4,4'-Methylene bis(2-chlor	231		5.300				ND	
T 309 1-Bromo-4-ethylbenzene TIC	169		6.291				ND	
T 302 3-Nitro-4-Chlorobenzotrifl	179		6.382				ND	
T 310 3-Amino-4-Chlorobenzotrifl	195		6.414				ND	
T 248 Tetramethyl lead TIC	253		7.300				ND	
T 250 Pendimethalin (TIC)	252		7.300				ND	
T 246 Benefin (TIC)	292		7.300				ND	
T 247 Benzeneacetic acid (TIC)	91		7.300				ND	
T 251 Prometryn (TIC)	241		7.300				ND	
T 303 3'-Bromoacetophenone TIC	183		7.643				ND	
T 252 1-Methylnaphthalene (TIC)	142	7.472	7.778	-0.301	86	6583	0.9755	
T 249 trans Azobenzene (TIC)	77		9.835				ND	
T 253 Hexamethyldisiloxane TIC	147		2.300				ND	
T 254 2,3,7,8-TCDD	322		7.300				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

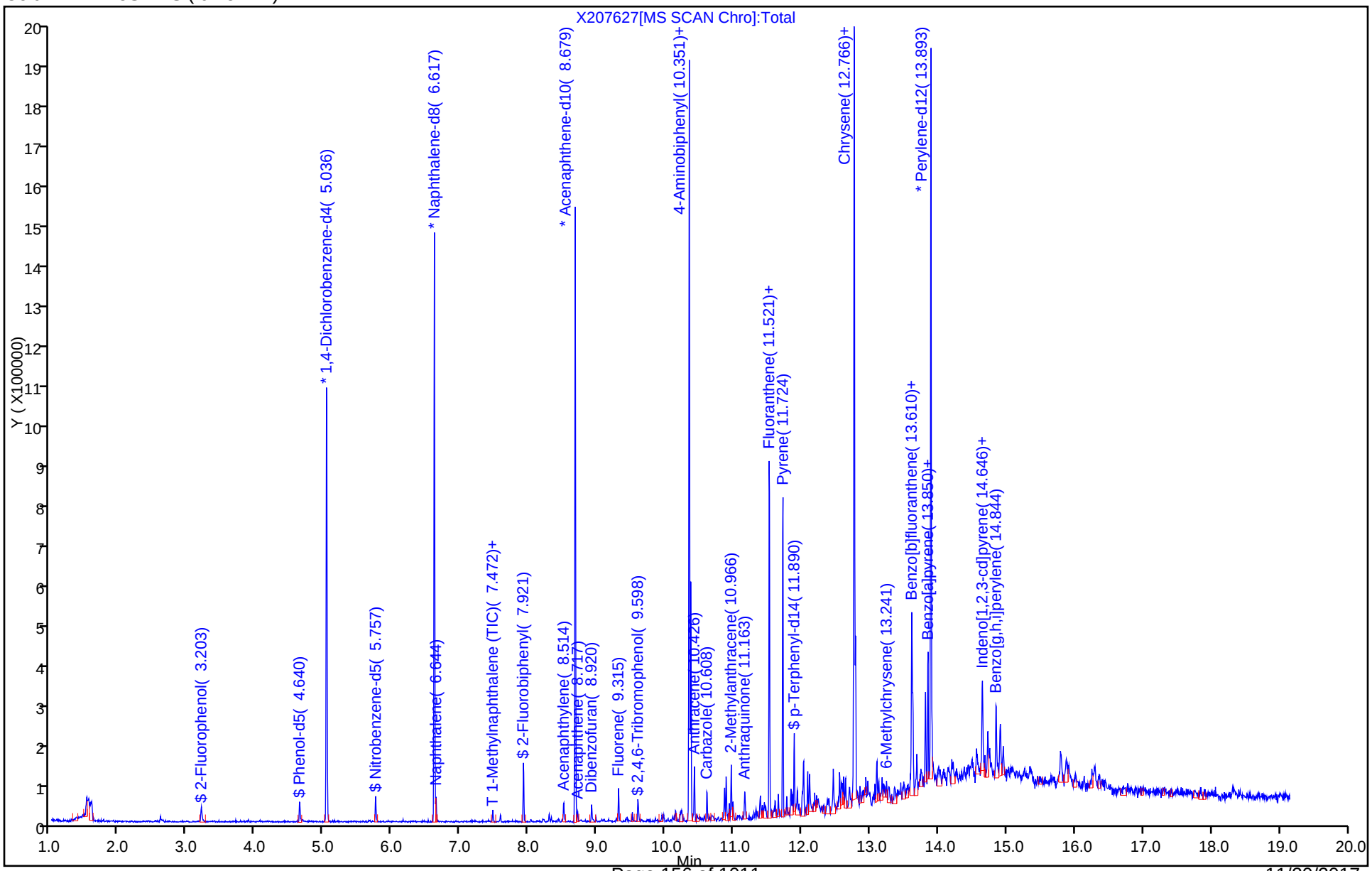
Report Date: 20-Nov-2017 11:33:43 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D

Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X	Operator ID:	dr
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3	Worklist Smp#:	16
Client ID:	NS-SOUTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	16
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



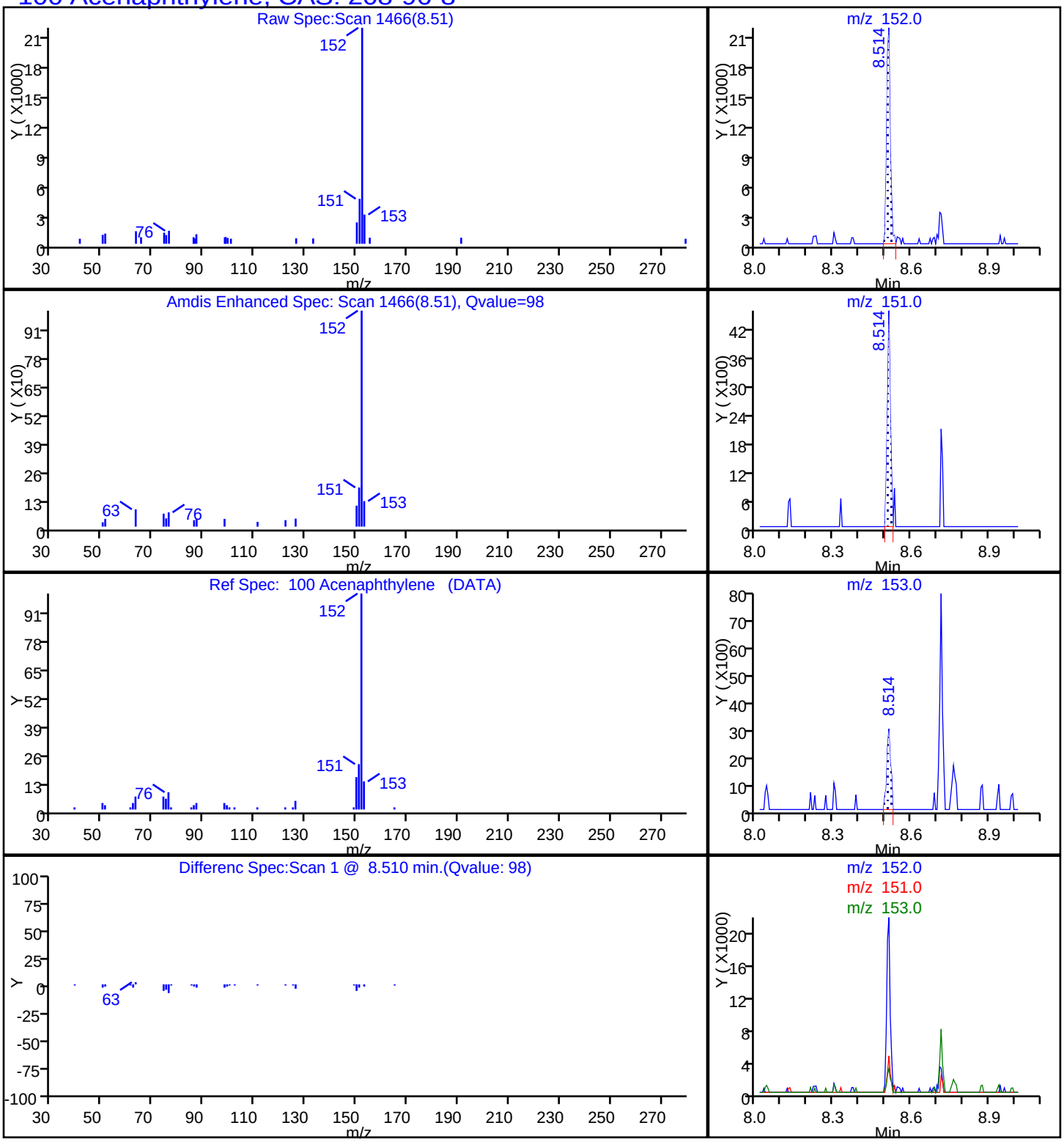
Report Date: 20-Nov-2017 11:33:43 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D

Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

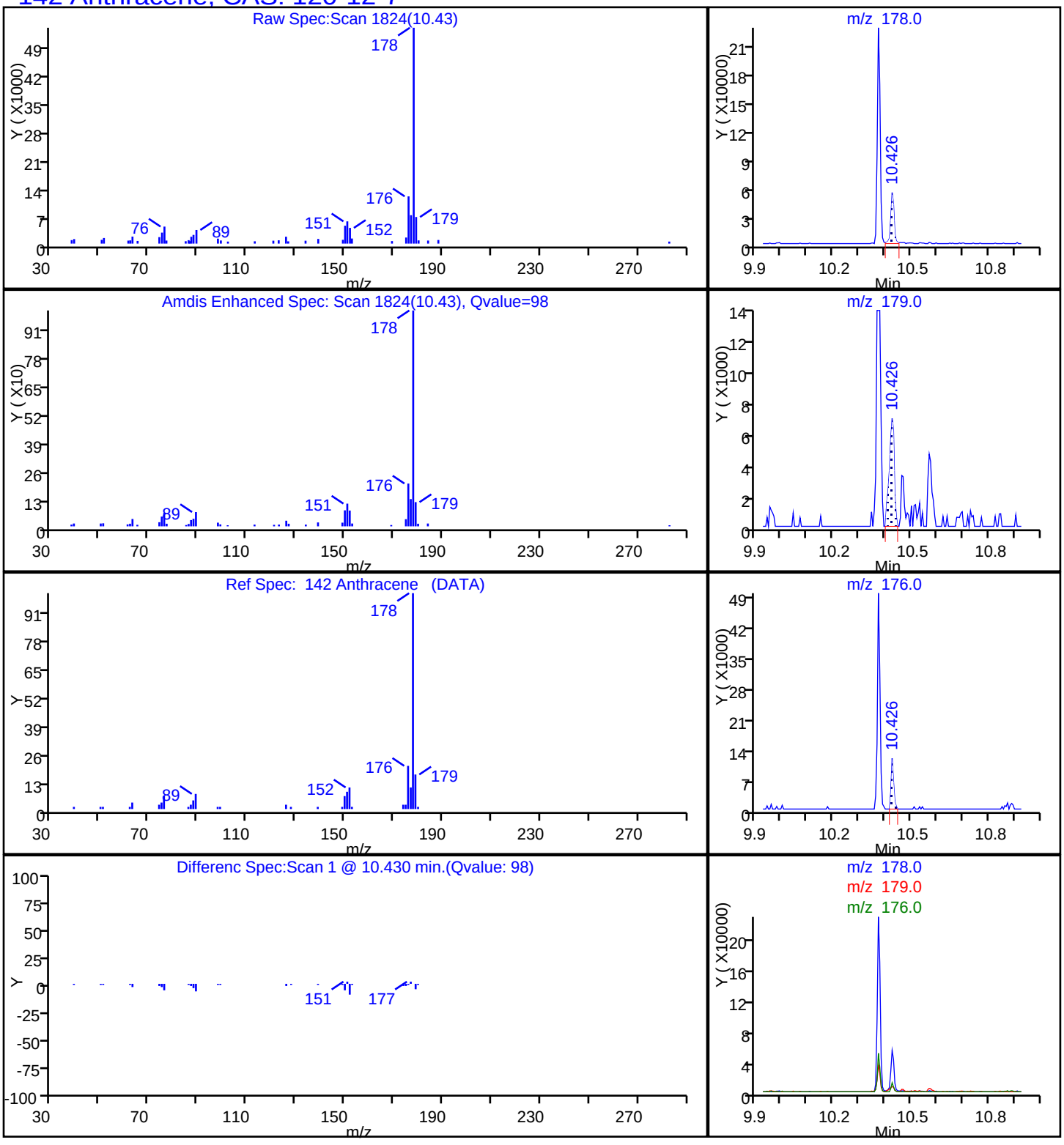
100 Acenaphthylene, CAS: 208-96-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

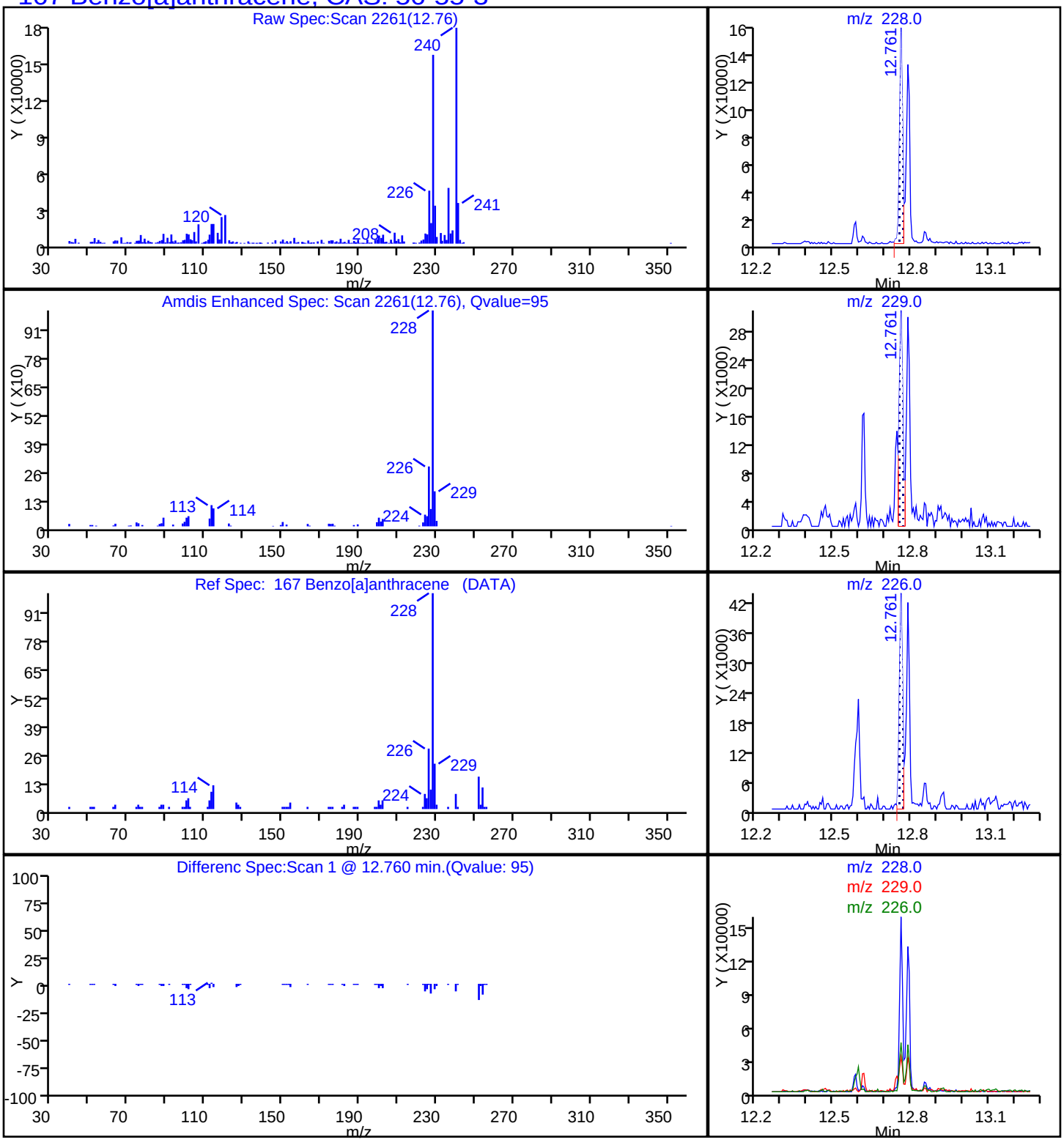
142 Anthracene, CAS: 120-12-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

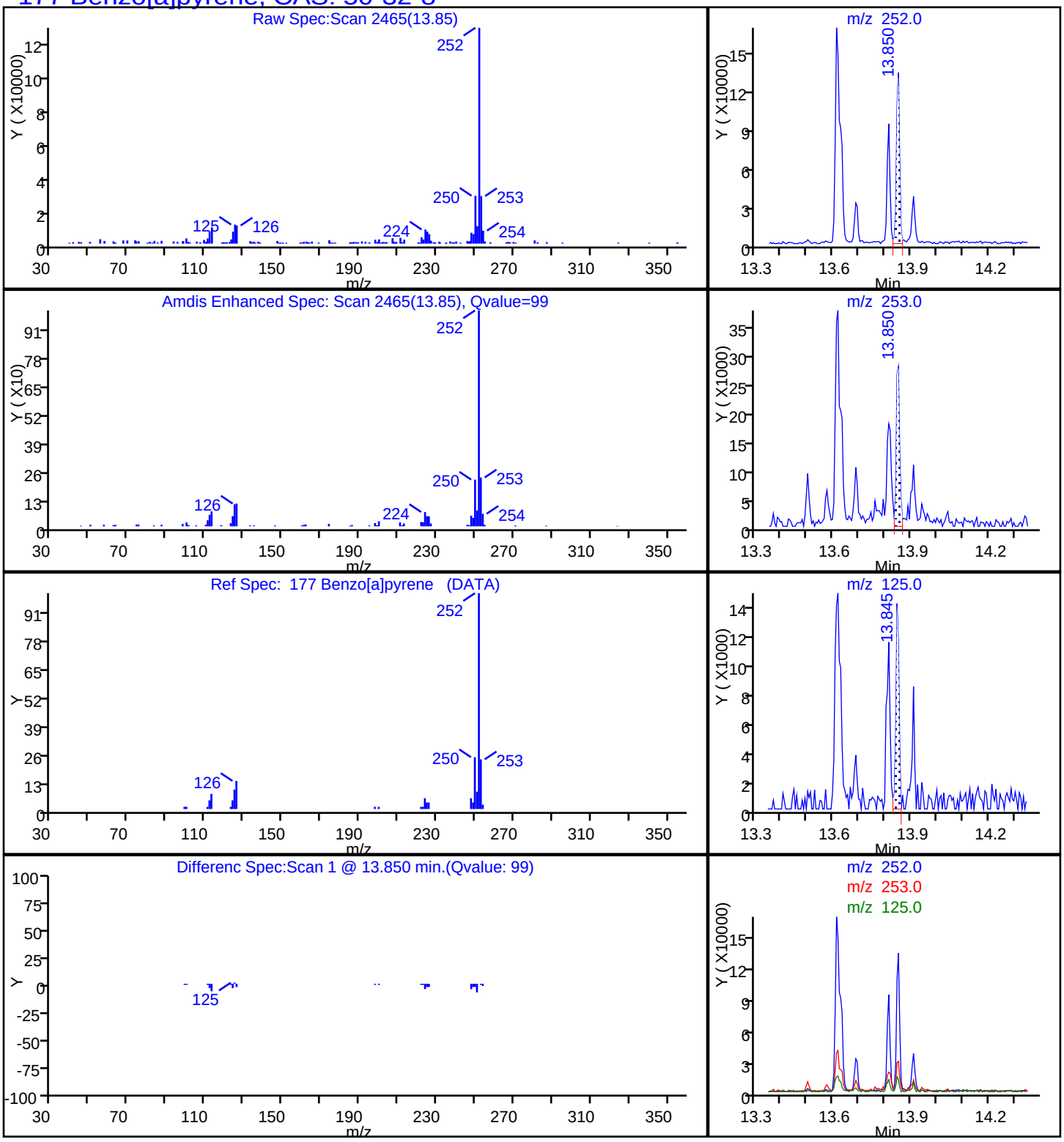
167 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

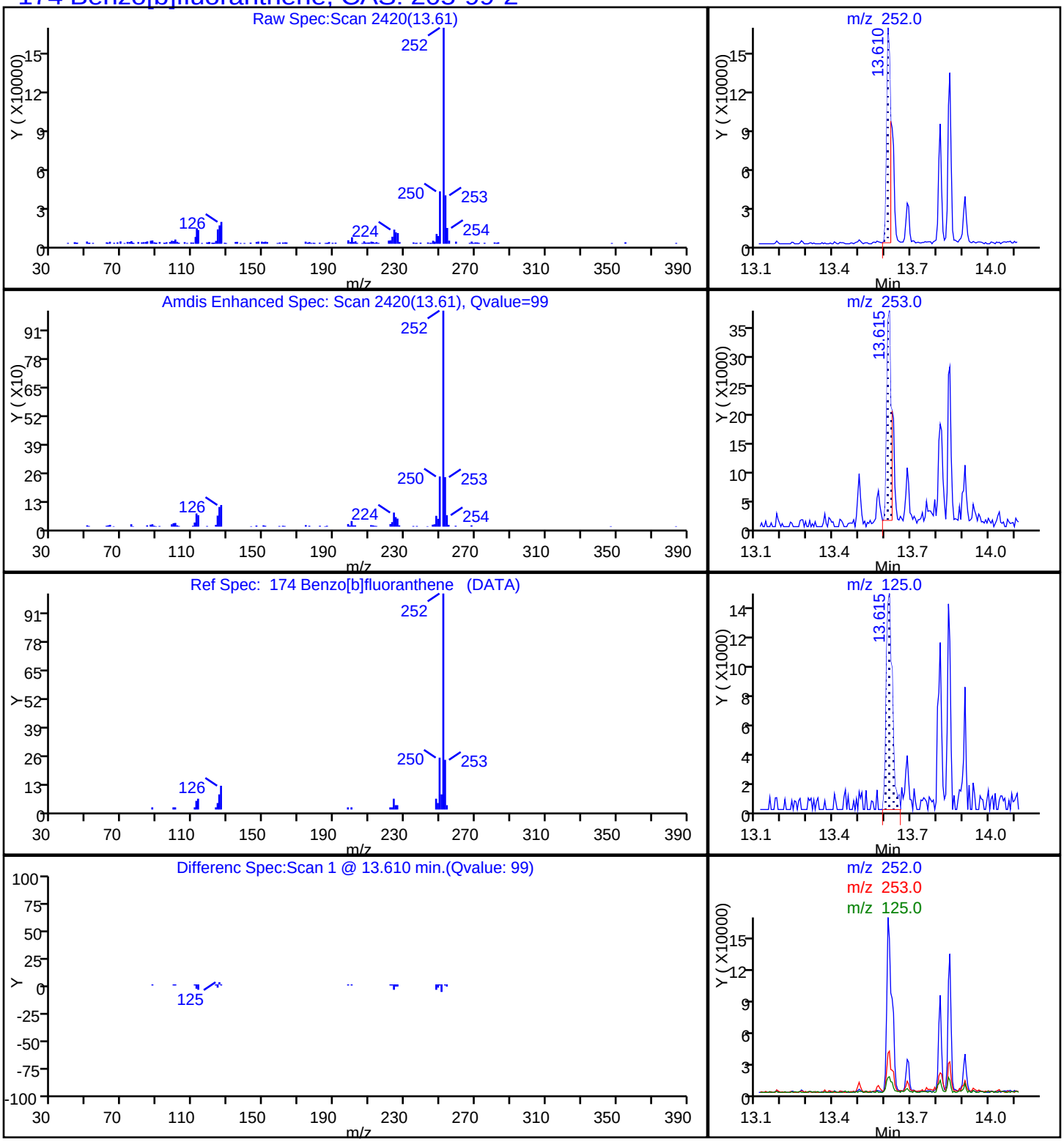
177 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

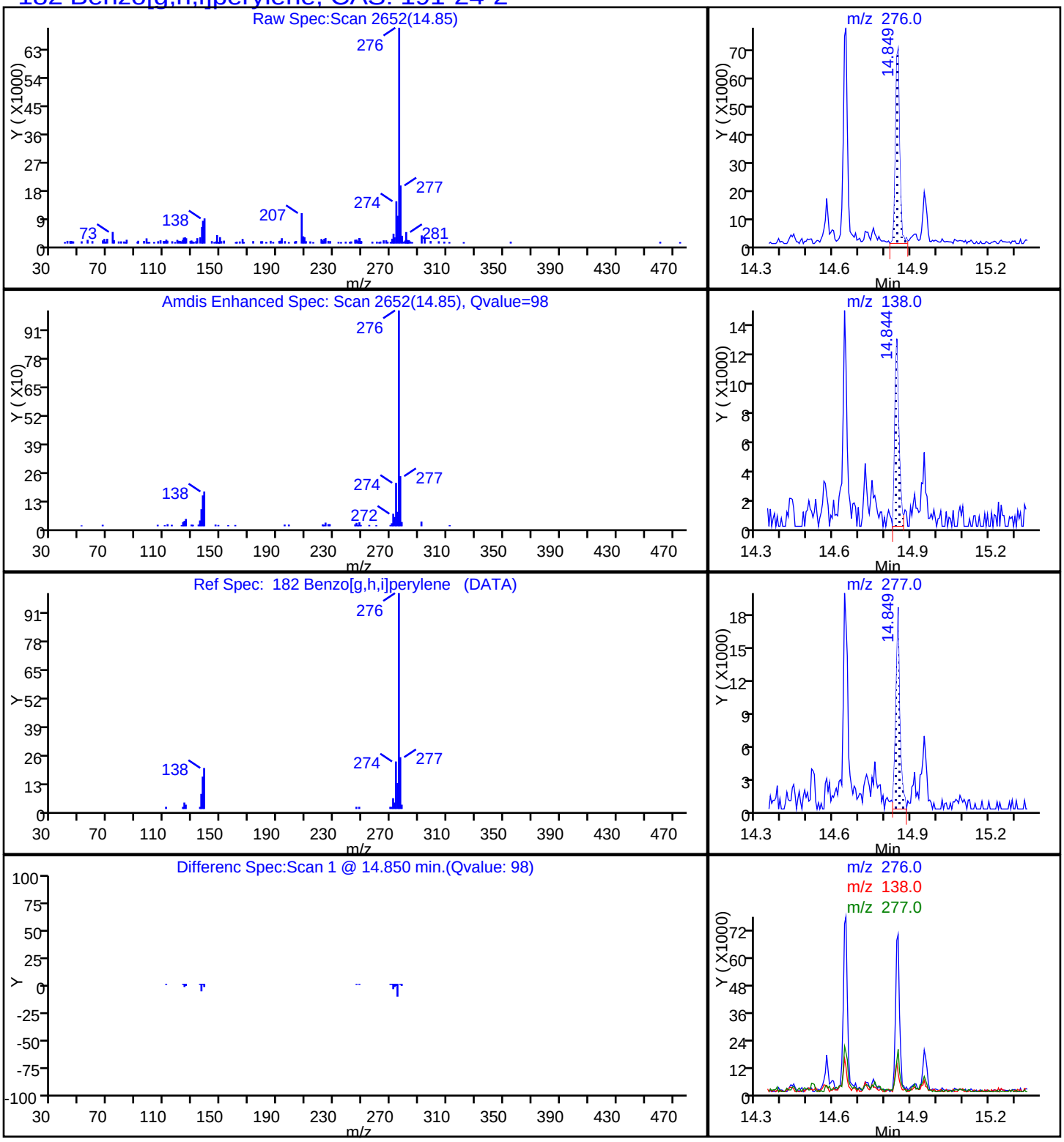
174 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

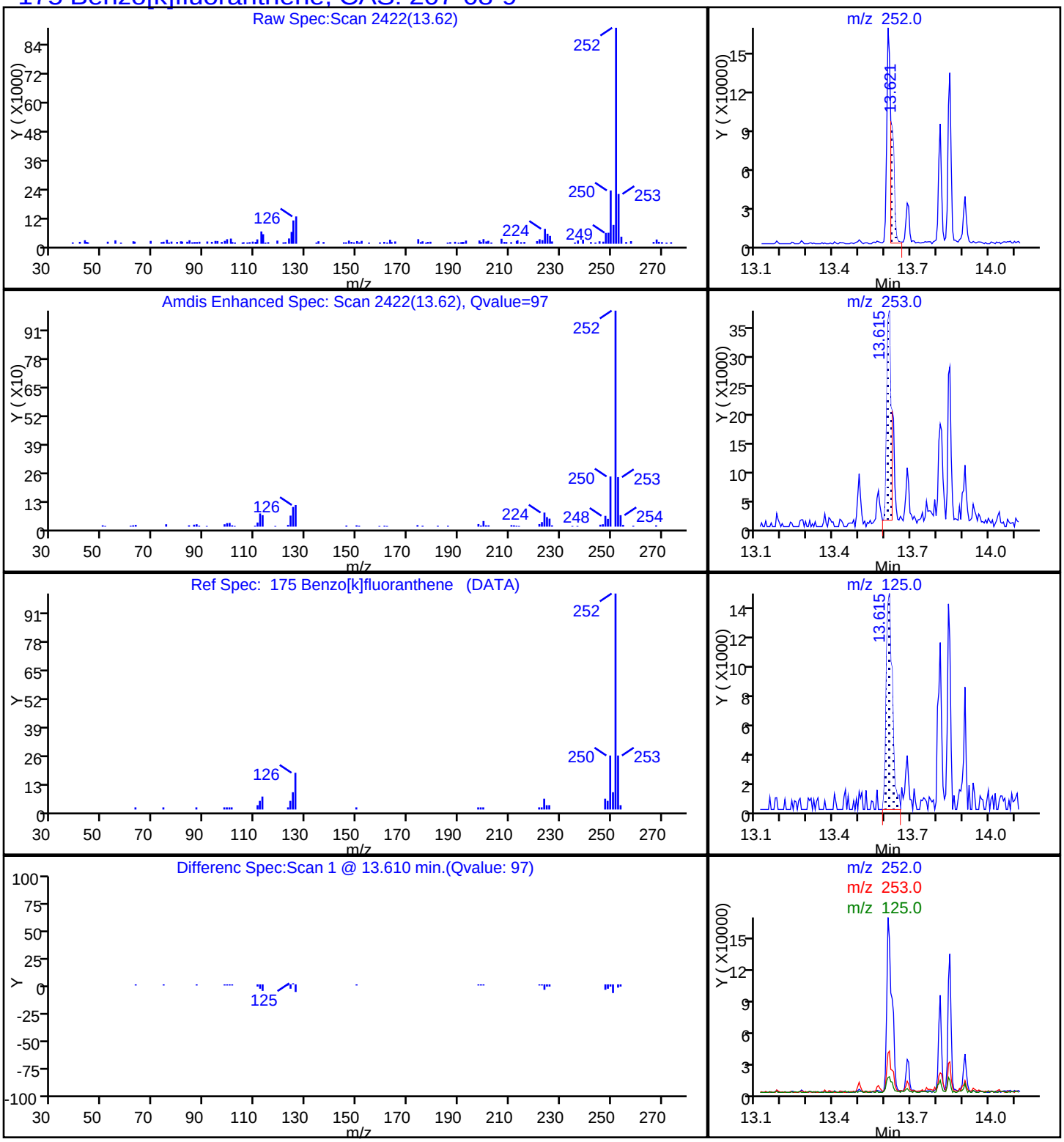
182 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

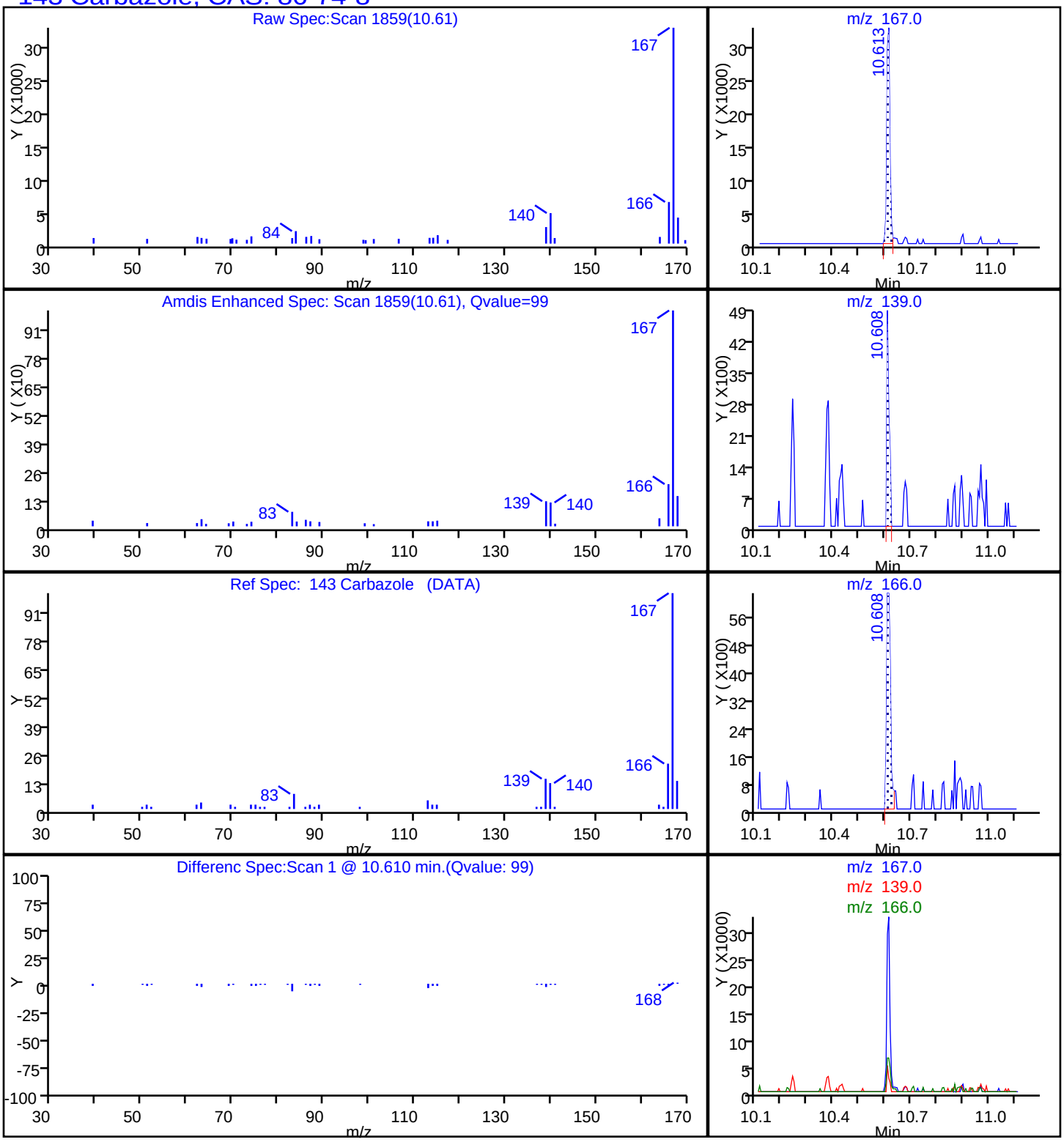
175 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

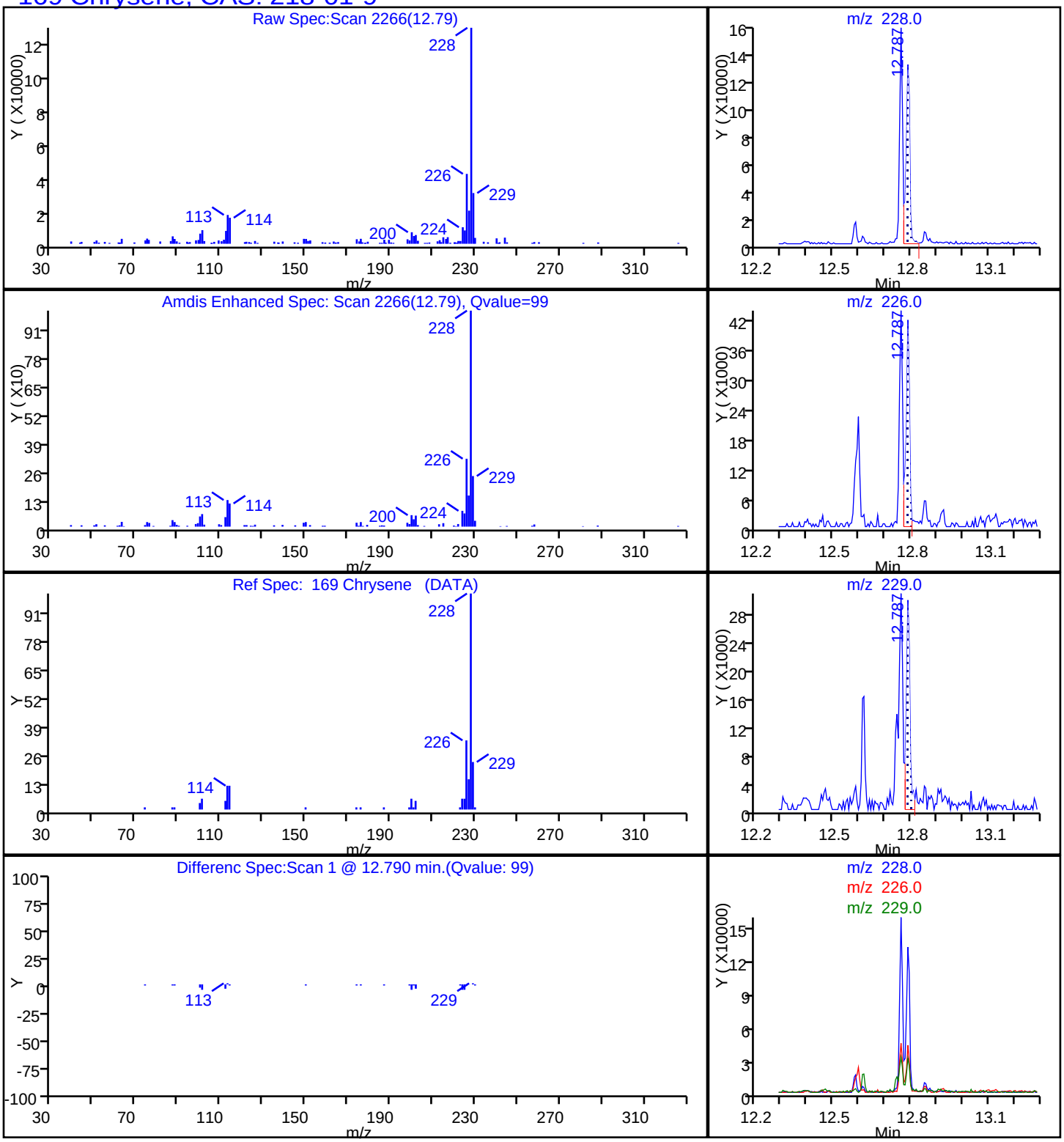
143 Carbazole, CAS: 86-74-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D		
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3
Client ID:	NS-SOUTH-SOIL 0-2"		
Operator ID:	dr	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	X-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

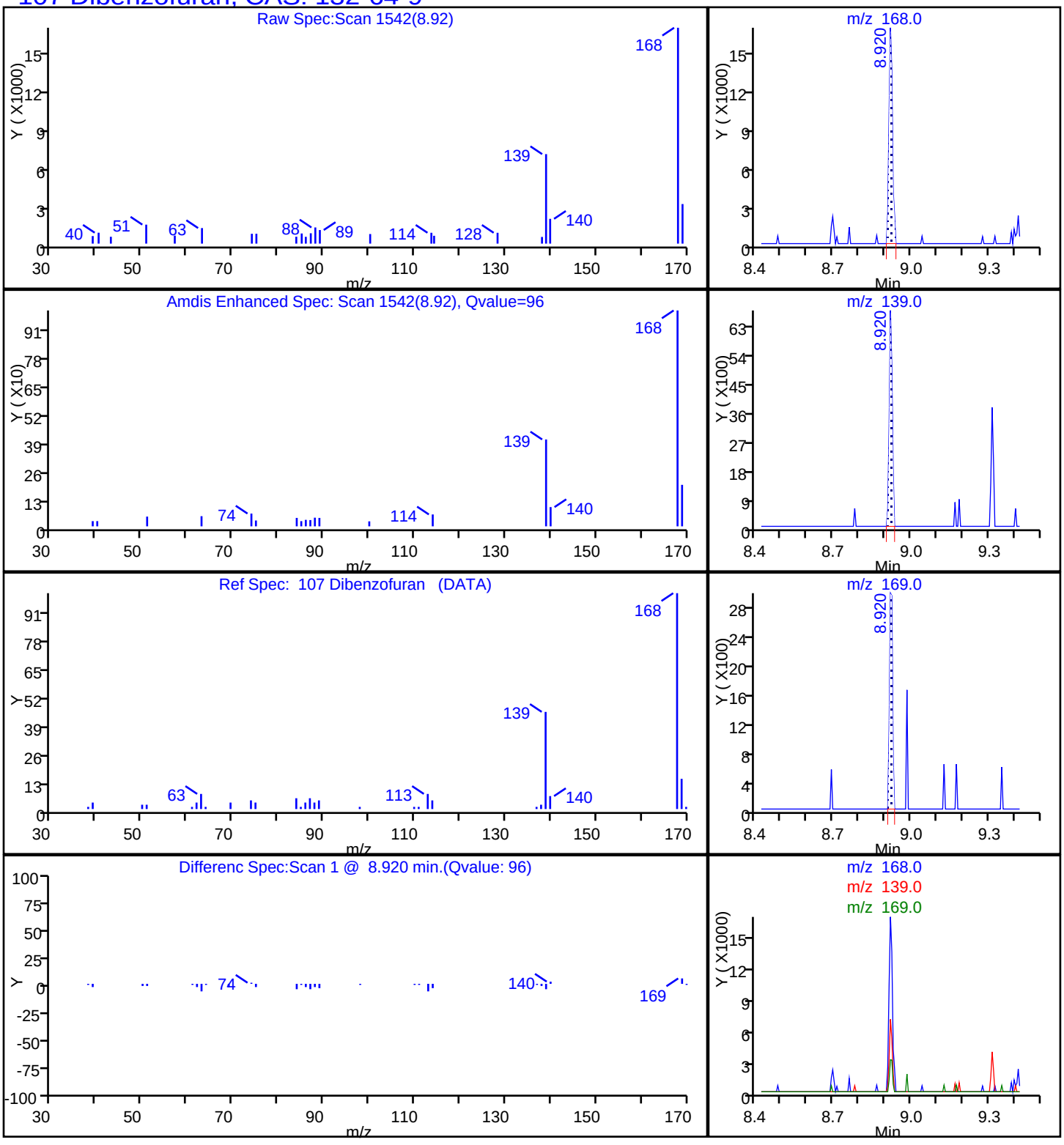
169 Chrysene, CAS: 218-01-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

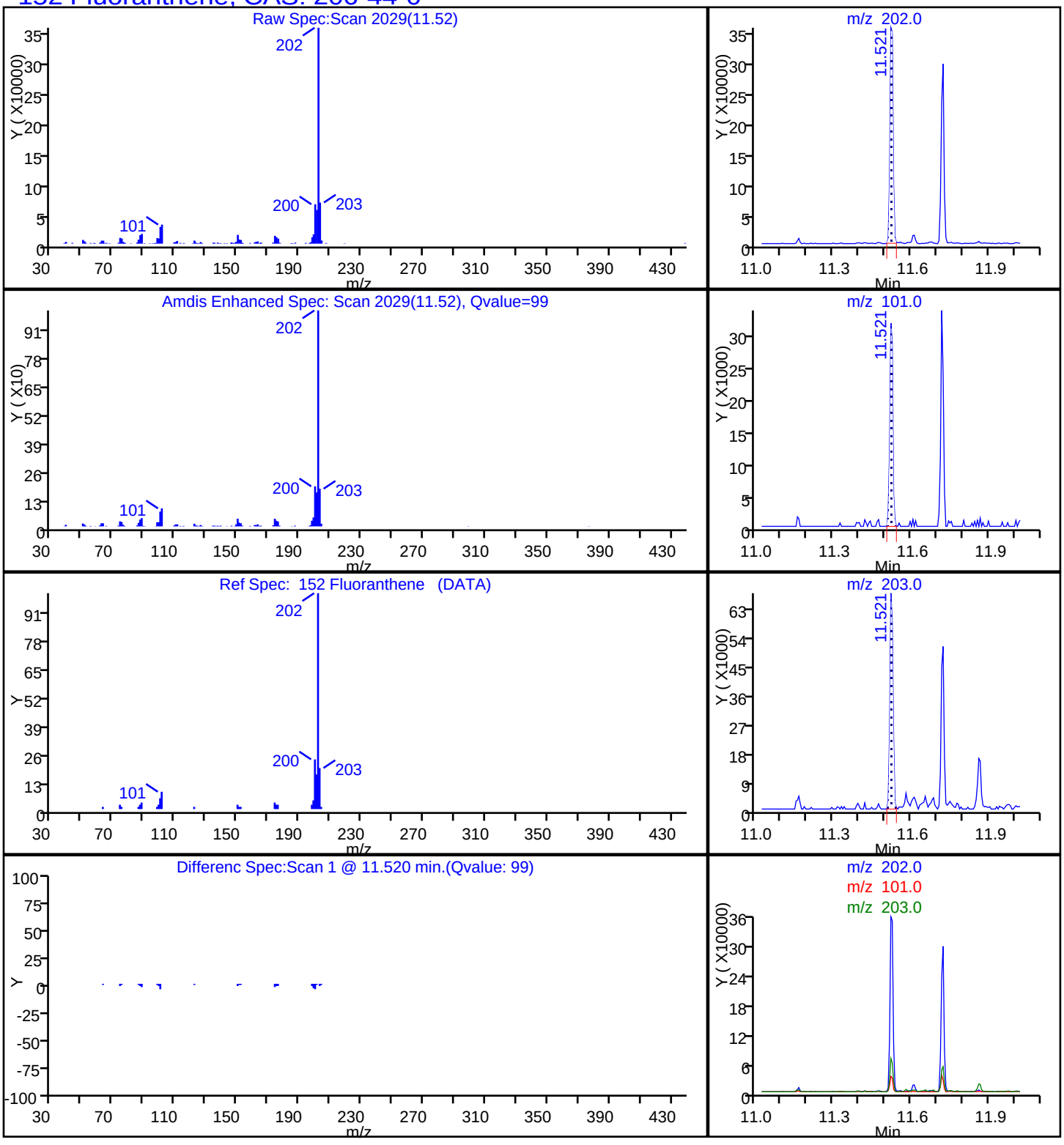
107 Dibenzofuran, CAS: 132-64-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

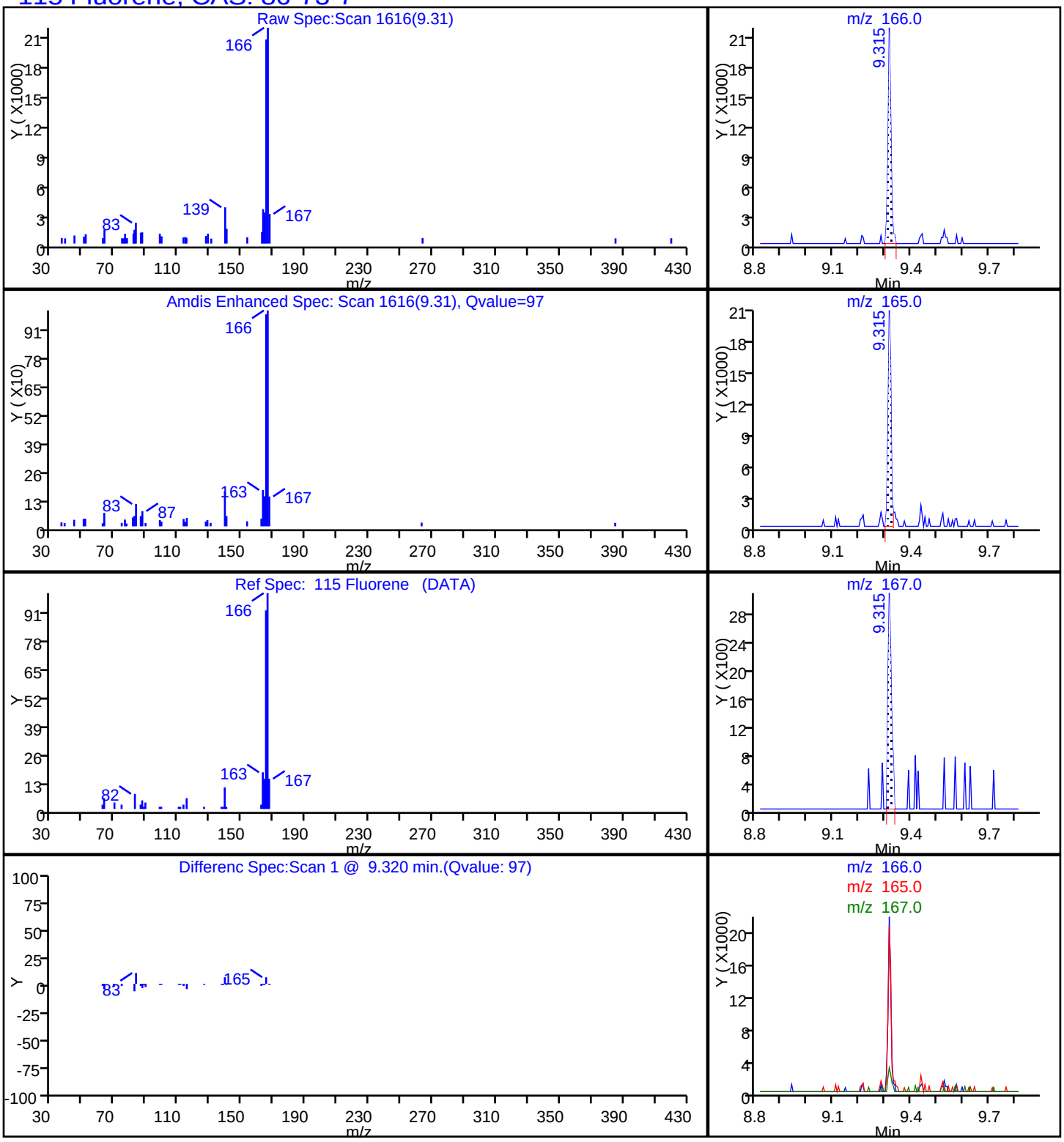
152 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

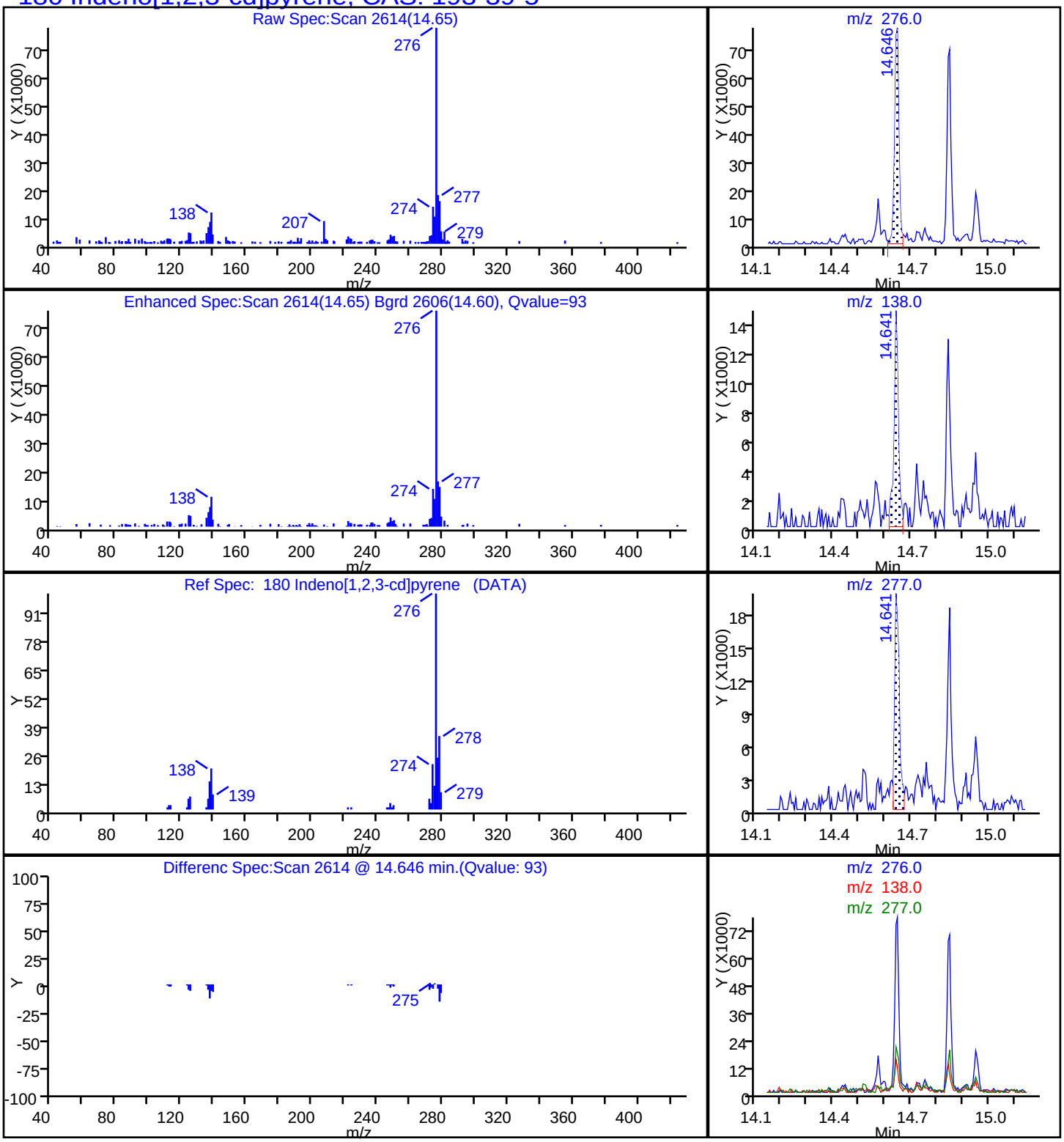
115 Fluorene, CAS: 86-73-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

180 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



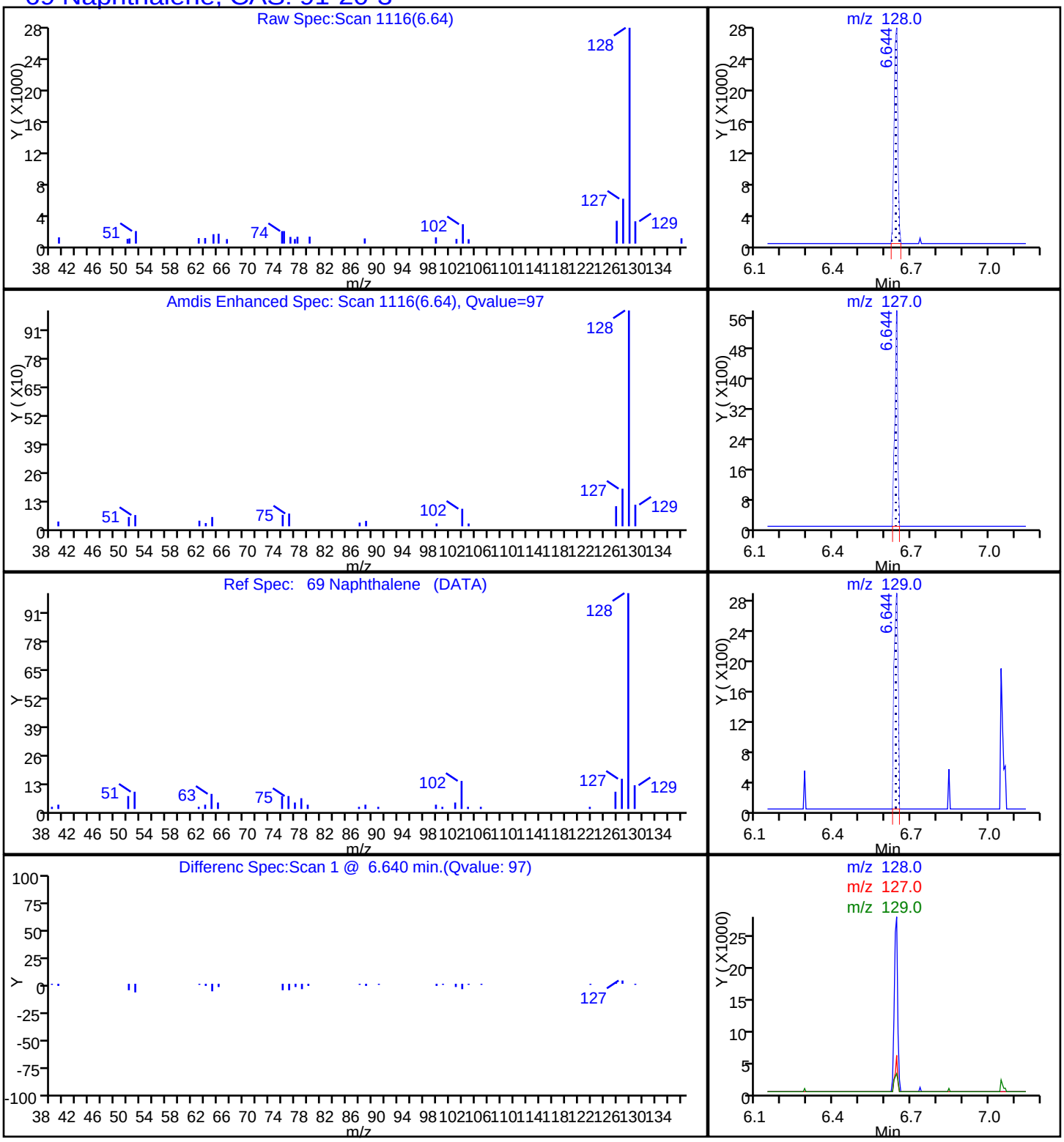
Report Date: 20-Nov-2017 11:33:43 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D

Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

69 Naphthalene, CAS: 91-20-3



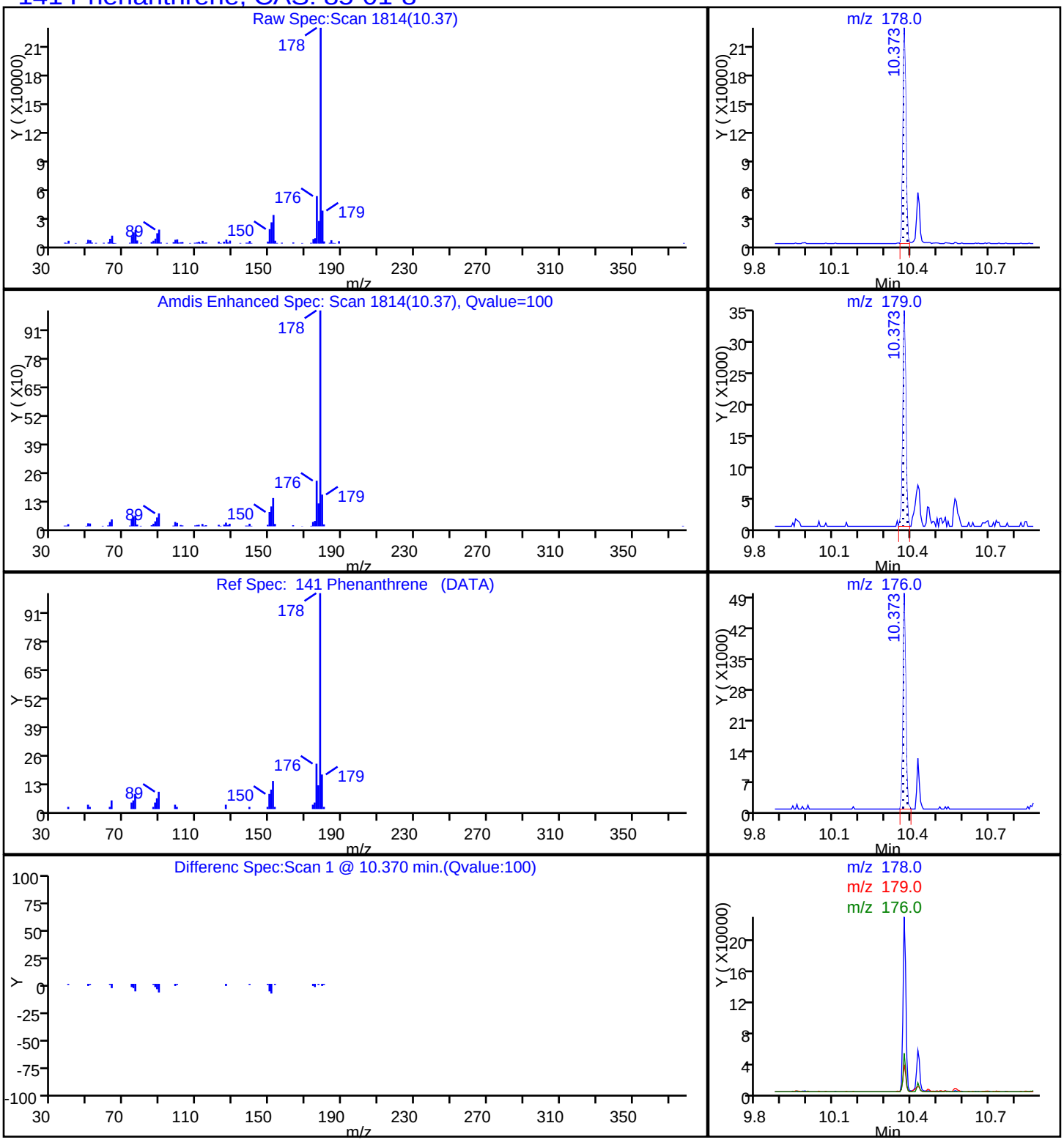
Report Date: 20-Nov-2017 11:33:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D

Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

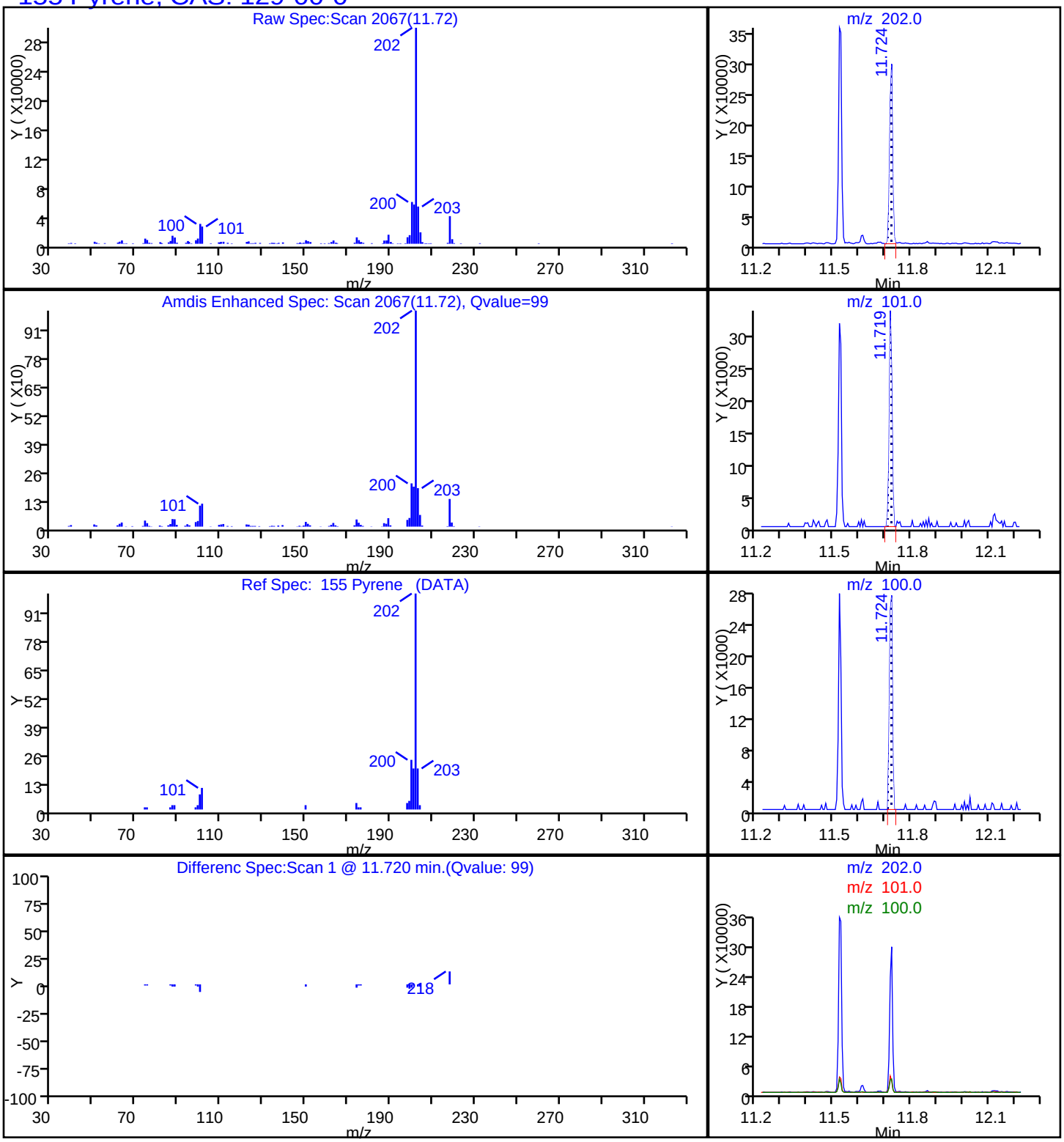
141 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

155 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

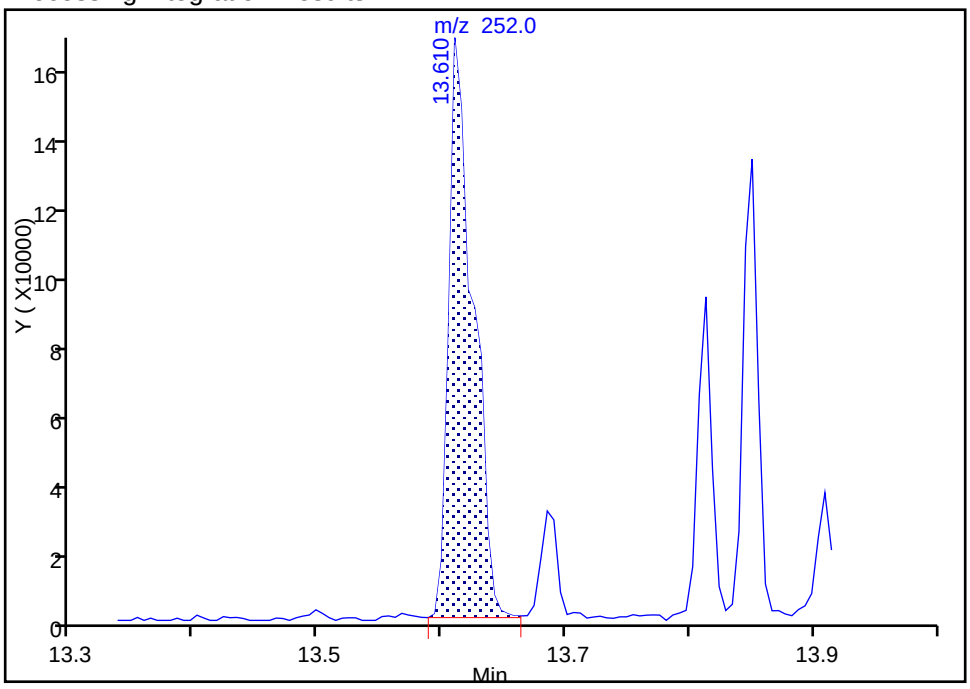
Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

174 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

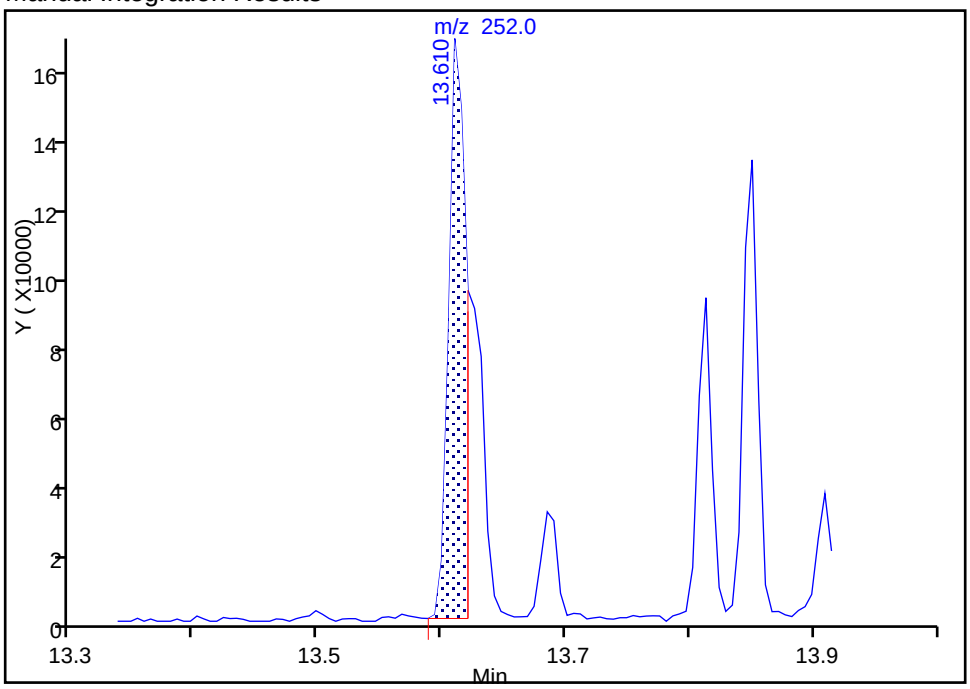
Processing Integration Results

RT: 13.61
Area: 215686
Amount: 14.949457
Amount Units: ng/uL



Manual Integration Results

RT: 13.61
Area: 154308
Amount: 10.695273
Amount Units: ng/uL



Reviewer: richardsd, 20-Nov-2017 11:18:14

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

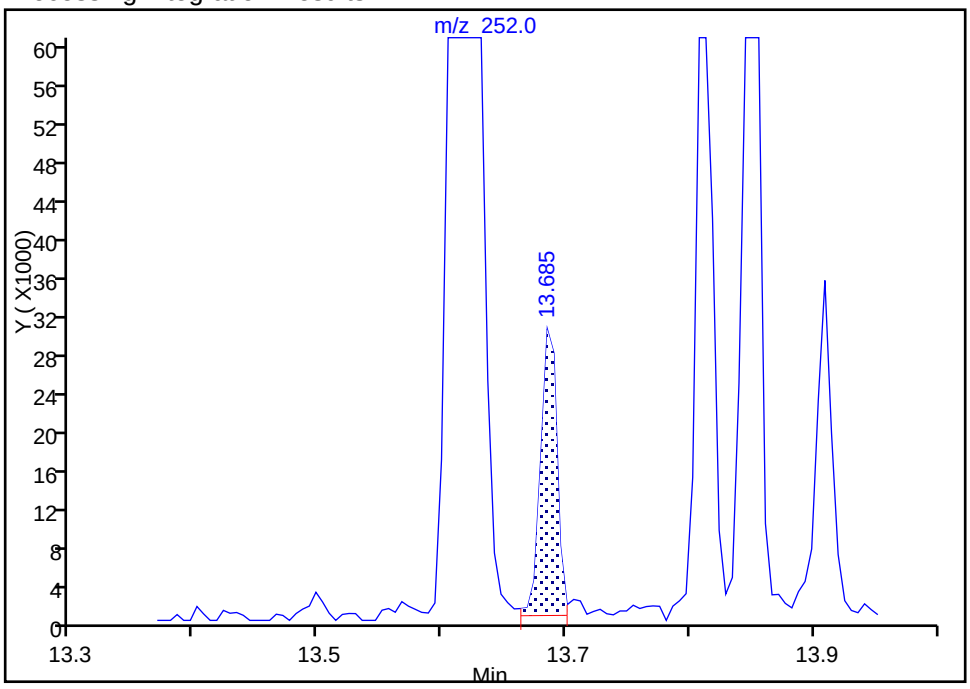
Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

175 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

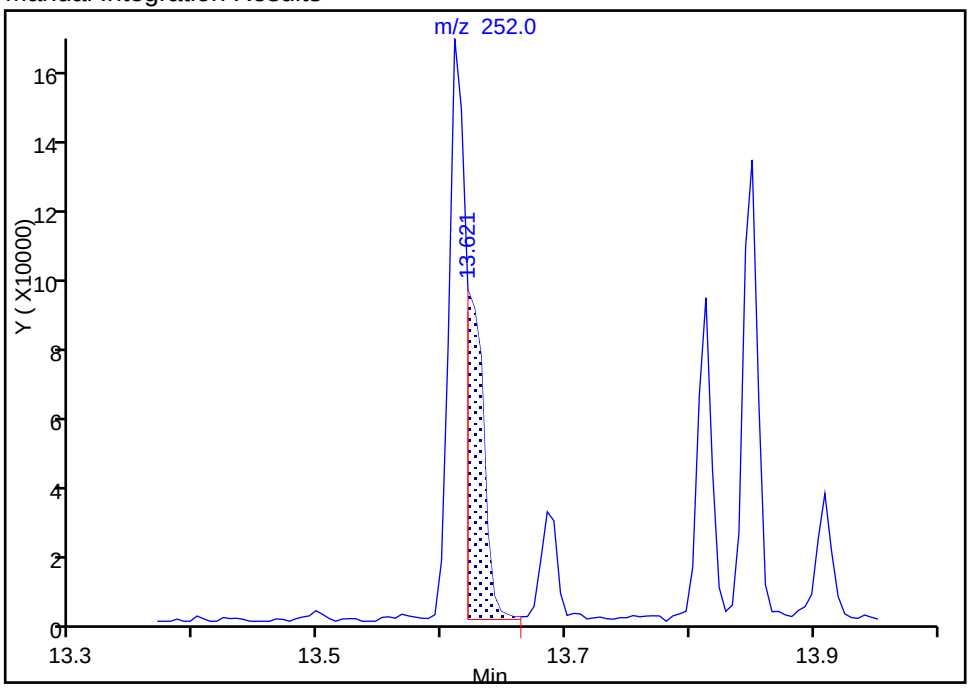
Processing Integration Results

RT: 13.68
Area: 27626
Amount: 1.693172
Amount Units: ng/uL



Manual Integration Results

RT: 13.62
Area: 91052
Amount: 5.580493
Amount Units: ng/uL



Reviewer: richardsd, 20-Nov-2017 11:18:06

Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

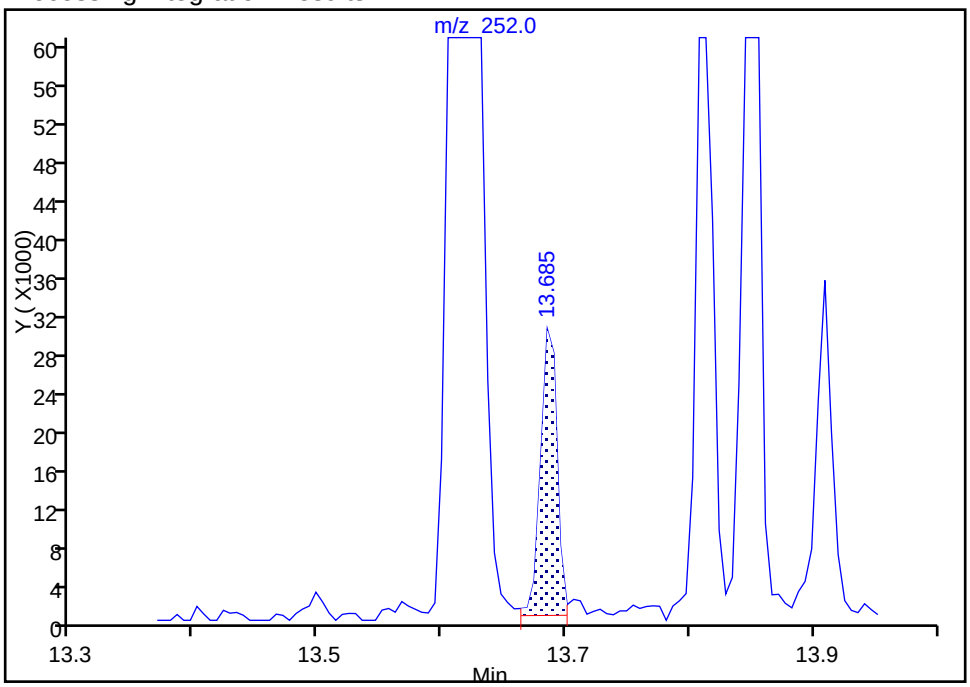
Data File:	\\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207627.D				
Injection Date:	16-Nov-2017 18:12:30	Instrument ID:	HP5973X		
Lims ID:	480-127239-D-3-A	Lab Sample ID:	480-127239-3		
Client ID:	NS-SOUTH-SOIL 0-2"				
Operator ID:	dr	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

175 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

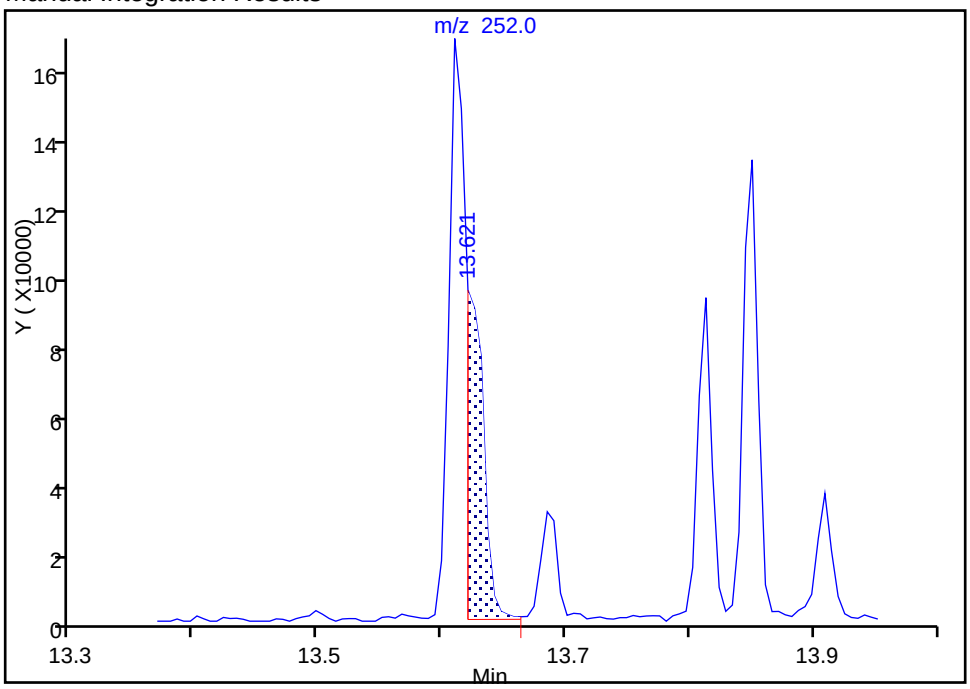
Processing Integration Results

RT: 13.68
Area: 27626
Amount: 1.693172
Amount Units: ng/uL



Manual Integration Results

RT: 13.62
Area: 91052
Amount: 5.580493
Amount Units: ng/uL



Reviewer: richardsd, 20-Nov-2017 11:18:18
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 0-2" | Lab Sample ID: 480-127239-4

Matrix: Solid | Lab File ID: U328819.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.25(g) | Date Analyzed: 11/13/2017 17:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2200	320
108-60-1	bis (2-chloroisopropyl) ether	ND		2200	430
95-95-4	2,4,5-Trichlorophenol	ND		2200	590
88-06-2	2,4,6-Trichlorophenol	ND		2200	430
120-83-2	2,4-Dichlorophenol	ND		2200	230
105-67-9	2,4-Dimethylphenol	ND		2200	520
51-28-5	2,4-Dinitrophenol	ND		21000	10000
121-14-2	2,4-Dinitrotoluene	ND		2200	450
606-20-2	2,6-Dinitrotoluene	ND		2200	260
91-58-7	2-Chloronaphthalene	ND		2200	360
95-57-8	2-Chlorophenol	ND		2200	400
91-57-6	2-Methylnaphthalene	ND		2200	430
95-48-7	2-Methylphenol	ND		2200	260
88-74-4	2-Nitroaniline	ND		4200	320
88-75-5	2-Nitrophenol	ND		2200	610
91-94-1	3,3'-Dichlorobenzidine	ND		4200	2600
99-09-2	3-Nitroaniline	ND		4200	600
534-52-1	4,6-Dinitro-2-methylphenol	ND		4200	2200
101-55-3	4-Bromophenyl phenyl ether	ND		2200	310
59-50-7	4-Chloro-3-methylphenol	ND		2200	540
106-47-8	4-Chloroaniline	ND		2200	540
7005-72-3	4-Chlorophenyl phenyl ether	ND		2200	270
106-44-5	4-Methylphenol	ND		4200	260
100-01-6	4-Nitroaniline	ND		4200	1100
100-02-7	4-Nitrophenol	ND		4200	1500
83-32-9	Acenaphthene	ND		2200	320
208-96-8	Acenaphthylene	ND		2200	280
98-86-2	Acetophenone	ND		2200	290
120-12-7	Anthracene	ND		2200	540
1912-24-9	Atrazine	ND		2200	750
100-52-7	Benzaldehyde	ND		2200	1700
56-55-3	Benzo(a)anthracene	1200	J	2200	220
50-32-8	Benzo(a)pyrene	1200	J	2200	320
205-99-2	Benzo(b)fluoranthene	1700	J	2200	350

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 0-2" | Lab Sample ID: 480-127239-4

Matrix: Solid | Lab File ID: U328819.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.25(g) | Date Analyzed: 11/13/2017 17:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1000	J	2200	230
207-08-9	Benzo(k)fluoranthene	540	J	2200	280
111-91-1	Bis(2-chloroethoxy)methane	ND		2200	460
111-44-4	Bis(2-chloroethyl)ether	ND		2200	280
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2200	740
85-68-7	Butyl benzyl phthalate	ND		2200	360
105-60-2	Caprolactam	ND		2200	650
86-74-8	Carbazole	ND		2200	260
218-01-9	Chrysene	1300	J	2200	490
84-74-2	Di-n-butyl phthalate	ND		2200	370
117-84-0	Di-n-octyl phthalate	ND		2200	260
53-70-3	Dibenz(a,h)anthracene	ND		2200	380
132-64-9	Dibenzofuran	ND		2200	260
84-66-2	Diethyl phthalate	ND		2200	280
131-11-3	Dimethyl phthalate	ND		2200	260
206-44-0	Fluoranthene	2400		2200	230
86-73-7	Fluorene	ND		2200	260
118-74-1	Hexachlorobenzene	ND		2200	290
87-68-3	Hexachlorobutadiene	ND		2200	320
77-47-4	Hexachlorocyclopentadiene	ND		2200	290
67-72-1	Hexachloroethane	ND		2200	280
193-39-5	Indeno(1,2,3-cd)pyrene	830	J	2200	270
78-59-1	Isophorone	ND		2200	460
621-64-7	N-Nitrosodi-n-propylamine	ND		2200	370
86-30-6	N-Nitrosodiphenylamine	ND		2200	1800
91-20-3	Naphthalene	ND		2200	280
98-95-3	Nitrobenzene	ND		2200	240
87-86-5	Pentachlorophenol	ND		4200	2200
85-01-8	Phenanthrene	1500	J	2200	320
108-95-2	Phenol	ND		2200	330
129-00-0	Pyrene	2100	J	2200	260

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 0-2" | Lab Sample ID: 480-127239-4

Matrix: Solid | Lab File ID: U328819.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.25(g) | Date Analyzed: 11/13/2017 17:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	100		54-120
321-60-8	2-Fluorobiphenyl	84		60-120
367-12-4	2-Fluorophenol	76		52-120
4165-60-0	Nitrobenzene-d5	66		53-120
1718-51-0	p-Terphenyl-d14	96		65-121
4165-62-2	Phenol-d5	80		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D
Lims ID: 480-127239-A-4-A
Client ID: NS-WEST-SOIL 0-2"
Sample Type: Client
Inject. Date: 13-Nov-2017 17:29:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0067222-008
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 14-Nov-2017 11:42:47 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: richardsd Date: 14-Nov-2017 11:30:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	97	93528	40.0	
* 2 Naphthalene-d8	136	8.739	8.739	0.000	99	341258	40.0	
* 3 Acenaphthene-d10	164	10.763	10.769	-0.006	97	179334	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	98	346311	40.0	
* 5 Chrysene-d12	240	14.711	14.711	0.000	97	458636	40.0	
* 6 Perylene-d12	264	16.490	16.485	0.005	99	506943	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	93	9463	3.02	
$ 8 Phenol-d5	99	6.730	6.730	0.000	93	12261	3.19	
$ 9 Nitrobenzene-d5	82	7.862	7.862	0.000	93	9826	2.65	
$ 10 2-Fluorobiphenyl	172	9.983	9.983	0.000	98	23414	3.35	
$ 11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	88	2405	4.01	
$ 12 p-Terphenyl-d14	244	13.670	13.669	0.001	99	31772	3.85	
32 Benzaldehyde	77		6.703				ND	
33 Phenol	94		6.751				ND	
35 Bis(2-chloroethyl)ether	93		6.869				ND	
37 2-Chlorophenol	128		6.981				ND	
43 2-Methylphenol	108		7.467				ND	
44 2,2'-oxybis[1-chloropropan	45		7.504				ND	
46 4-Methylphenol	108		7.638				ND	
47 N-Nitrosodi-n-propylamine	70		7.654				ND	
49 Acetophenone	105		7.675				ND	
53 Hexachloroethane	117		7.846				ND	
54 Nitrobenzene	77		7.884				ND	
56 Isophorone	82		8.156				ND	
59 2-Nitrophenol	139		8.268				ND	
60 2,4-Dimethylphenol	107		8.274				ND	
62 Bis(2-chloroethoxy)methane	93		8.381				ND	
67 2,4-Dichlorophenol	162		8.546				ND	
70 Naphthalene	128		8.760				ND	
72 4-Chloroaniline	127		8.792				ND	
74 Hexachlorobutadiene	225		8.904				ND	
76 Caprolactam	113		9.171				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		9.337				ND	
83 2-Methylnaphthalene	142		9.577				ND	
86 Hexachlorocyclopentadiene	237		9.775				ND	
89 2,4,6-Trichlorophenol	196		9.898				ND	
91 2,4,5-Trichlorophenol	196		9.941				ND	
94 1,1'-Biphenyl	154		10.106				ND	
95 2-Chloronaphthalene	162		10.149				ND	
98 2-Nitroaniline	65		10.234				ND	
102 Dimethyl phthalate	163		10.411				ND	
104 2,6-Dinitrotoluene	165		10.485				ND	
105 Acenaphthylene	152		10.614				ND	
106 3-Nitroaniline	138		10.683				ND	
107 2,4-Dinitrophenol	184		10.790				ND	
108 Acenaphthene	153		10.801				ND	
109 4-Nitrophenol	109		10.833				ND	
111 2,4-Dinitrotoluene	165		10.929				ND	
112 Dibenzofuran	168		10.982				ND	
118 Diethyl phthalate	149		11.153				ND	
121 4-Chlorophenyl phenyl ethe	204		11.308				ND	
122 4-Nitroaniline	138		11.324				ND	
123 Fluorene	166		11.335				ND	
125 4,6-Dinitro-2-methylphenol	198		11.356				ND	
127 N-Nitrosodiphenylamine	169		11.420				ND	
137 4-Bromophenyl phenyl ether	248		11.800				ND	
139 Hexachlorobenzene	284		11.901				ND	
141 Atrazine	200		11.912				ND	
143 Pentachlorophenol	266		12.072				ND	
150 Phenanthrene	178	12.281	12.286	-0.005	97	35745	3.58	
151 Anthracene	178	12.329	12.329	0.001	94	7959	0.7716	
152 Carbazole	167	12.457	12.457	0.000	92	4644	0.5087	
155 Di-n-butyl phthalate	149		12.708				ND	
162 Fluoranthene	202	13.376	13.376	0.000	97	63220	5.52	
165 Pyrene	202	13.589	13.589	0.000	98	51478	5.01	
172 Butyl benzyl phthalate	149		14.059				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.551				ND	
179 3,3'-Dichlorobenzidine	252		14.615				ND	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	96	37891	2.88	
182 Chrysene	228	14.733	14.738	-0.005	96	39587	3.12	
183 Di-n-octyl phthalate	149		15.208				ND	
185 Benzo[b]fluoranthene	252	15.940	15.940	0.000	96	58656	3.95	
187 Benzo[k]fluoranthene	252	15.972	15.977	-0.005	97	19336	1.27	M
190 Benzo[a]pyrene	252	16.405	16.410	-0.005	75	40466	2.80	
193 Dibenz(a,h)anthracene	278		18.306				ND	
194 Indeno[1,2,3-cd]pyrene	276	18.307	18.317	-0.010	97	31495	1.95	
195 Benzo[g,h,i]perylene	276	18.878	18.894	-0.016	97	30280	2.38	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

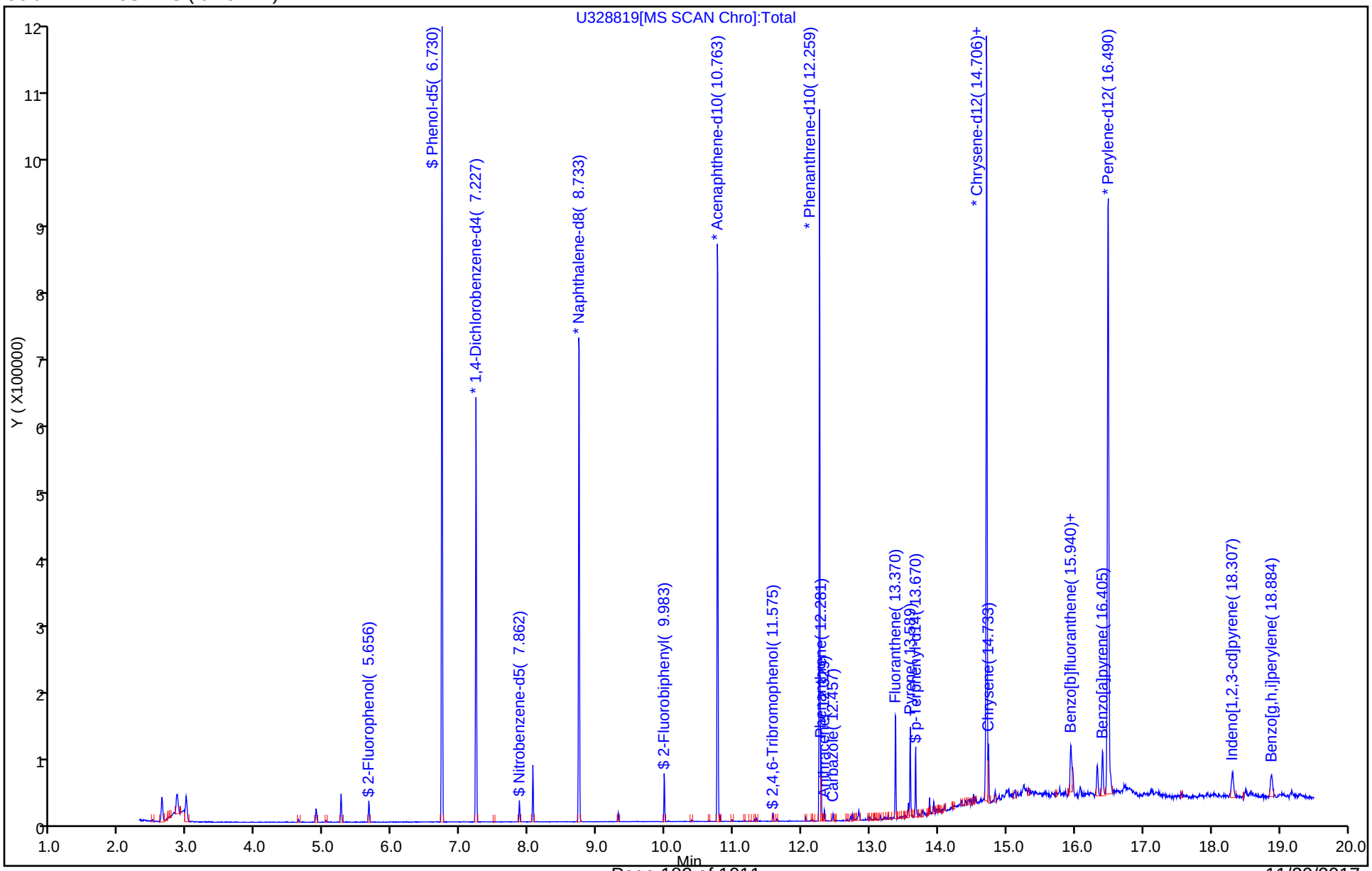
Report Date: 14-Nov-2017 11:50:38 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D

Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4	Worklist Smp#:	8
Client ID:	NS-WEST-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	8
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

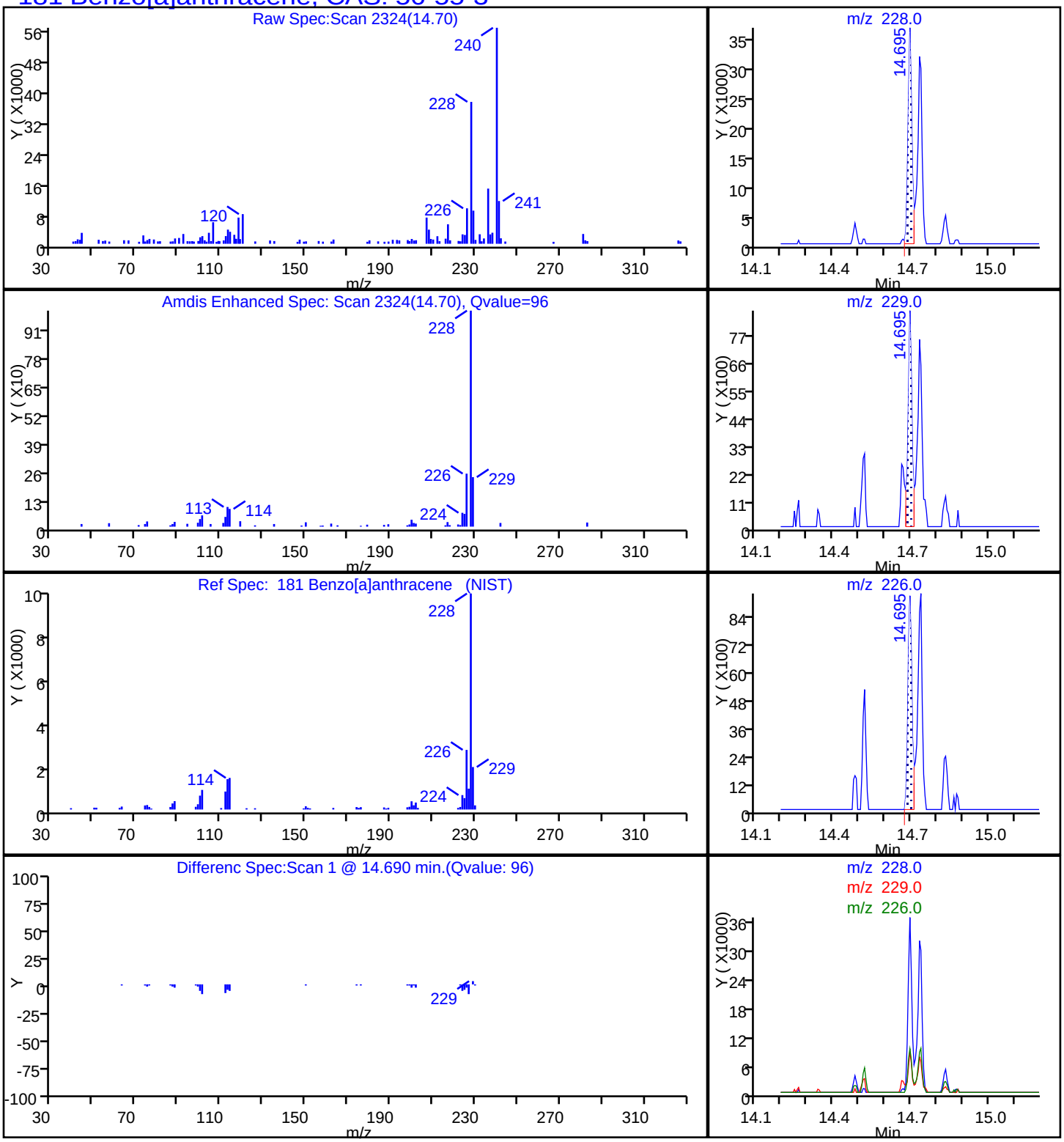
Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D				
Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

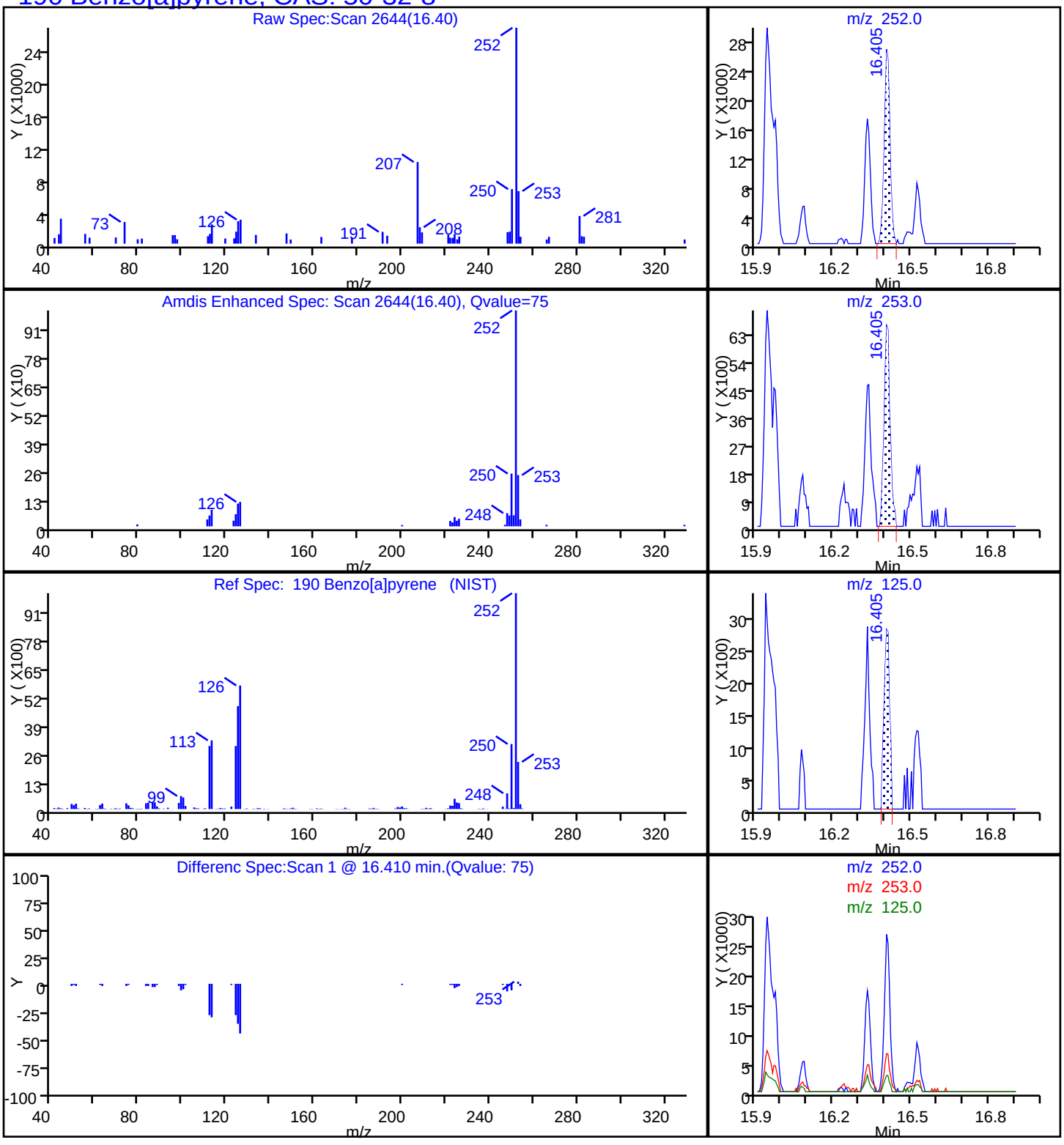
181 Benzo[a]anthracene, CAS: 56-55-3



Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D

Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

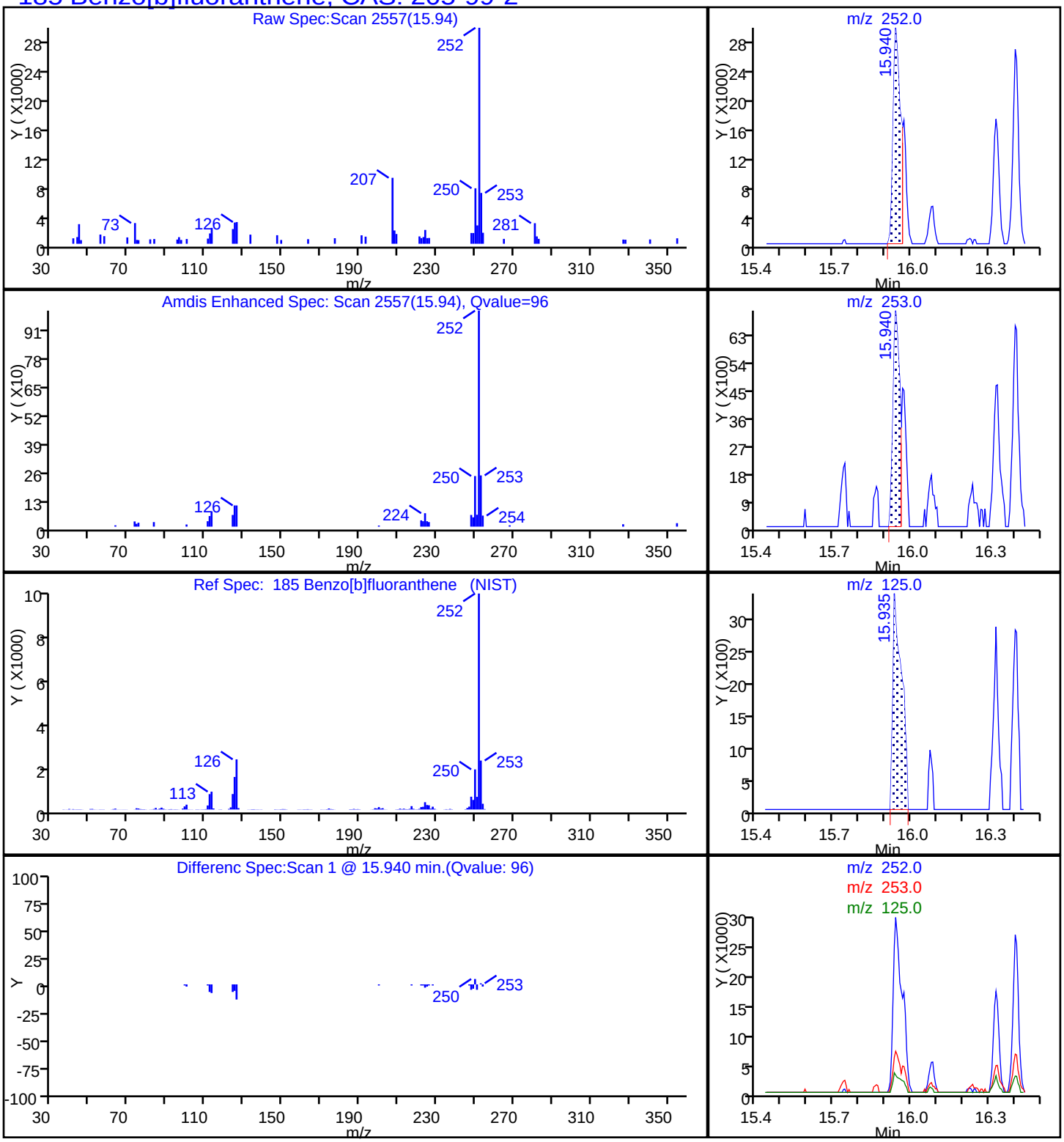
190 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D				
Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

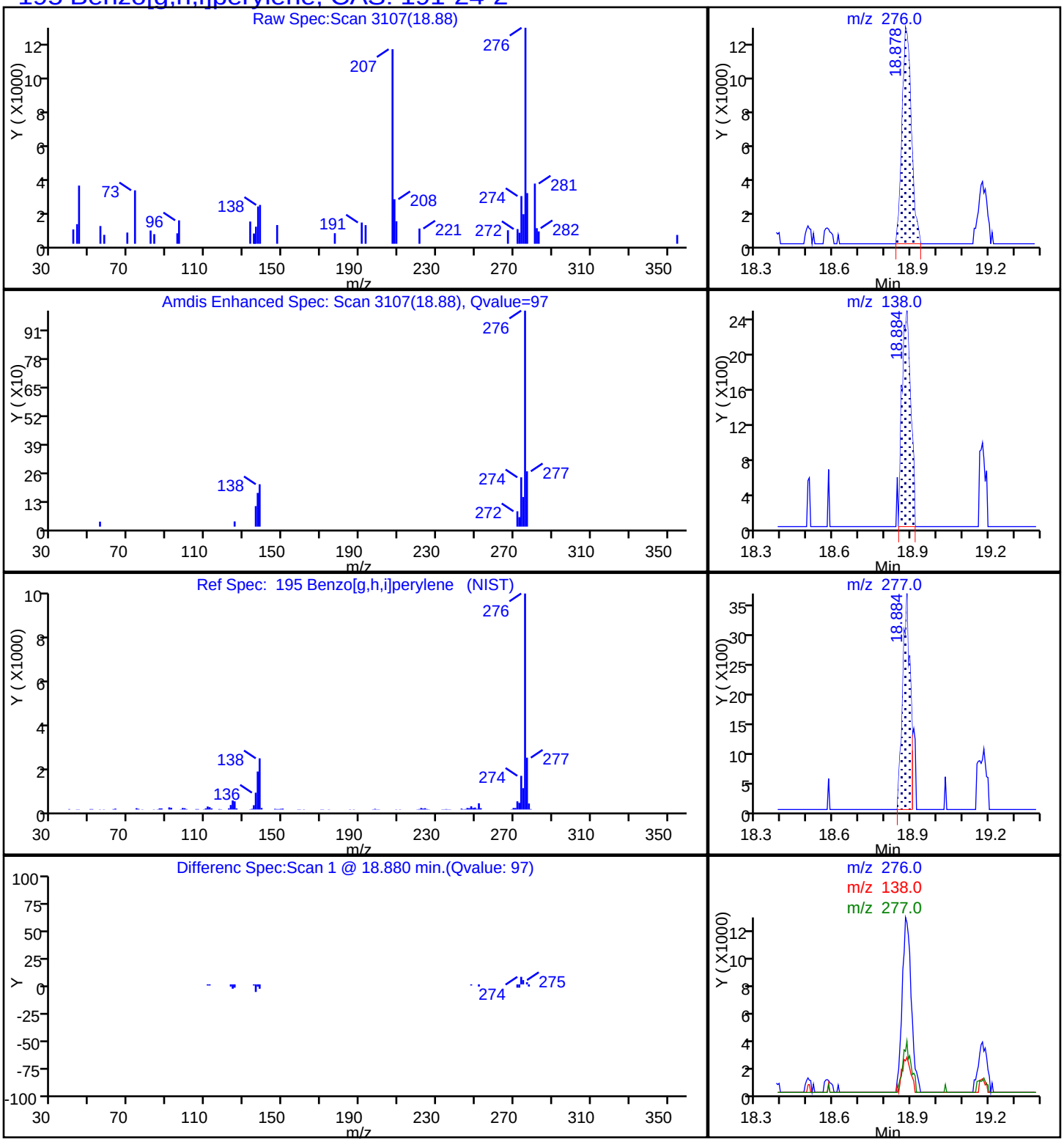
185 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D				
Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

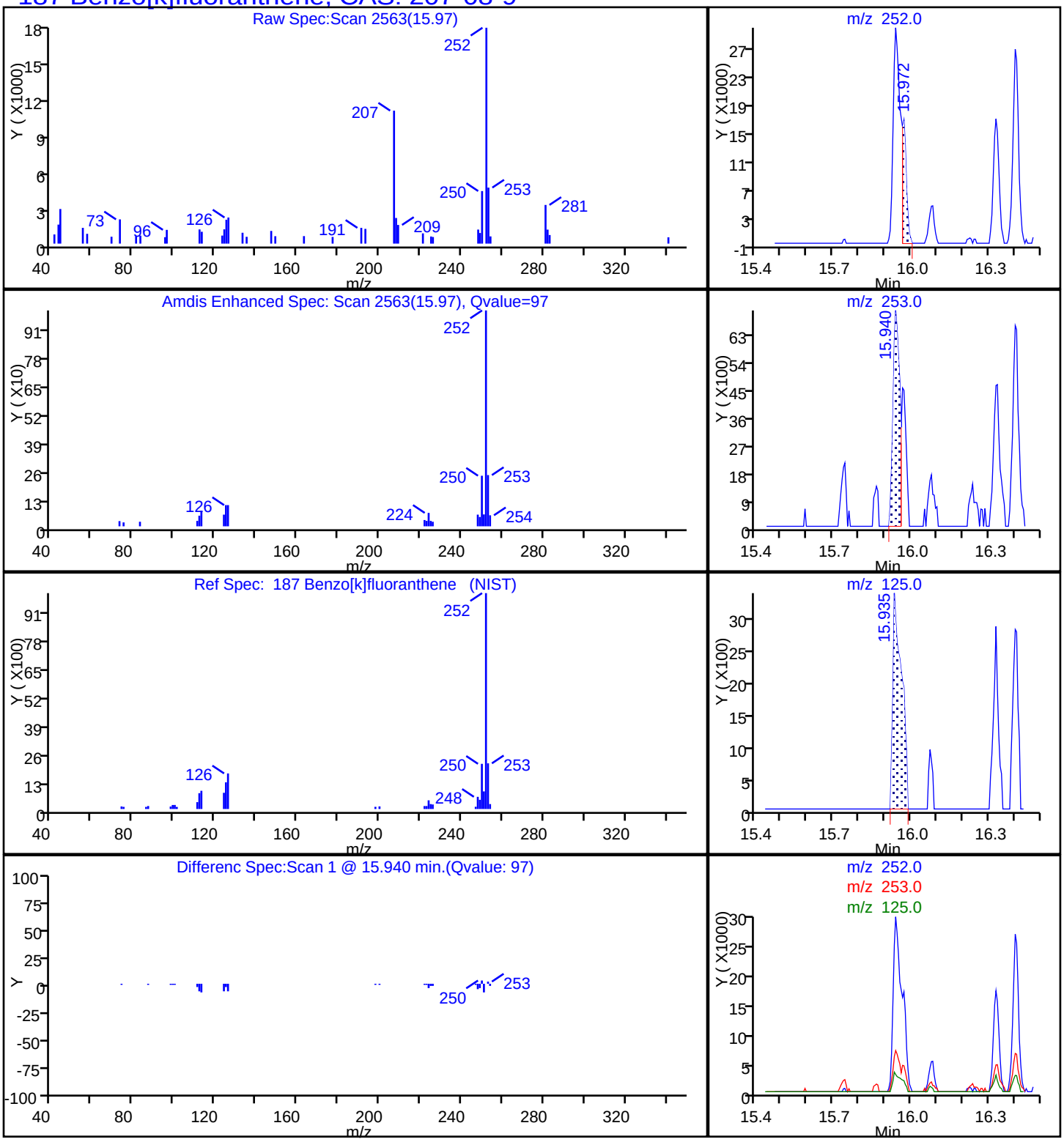
195 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D				
Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

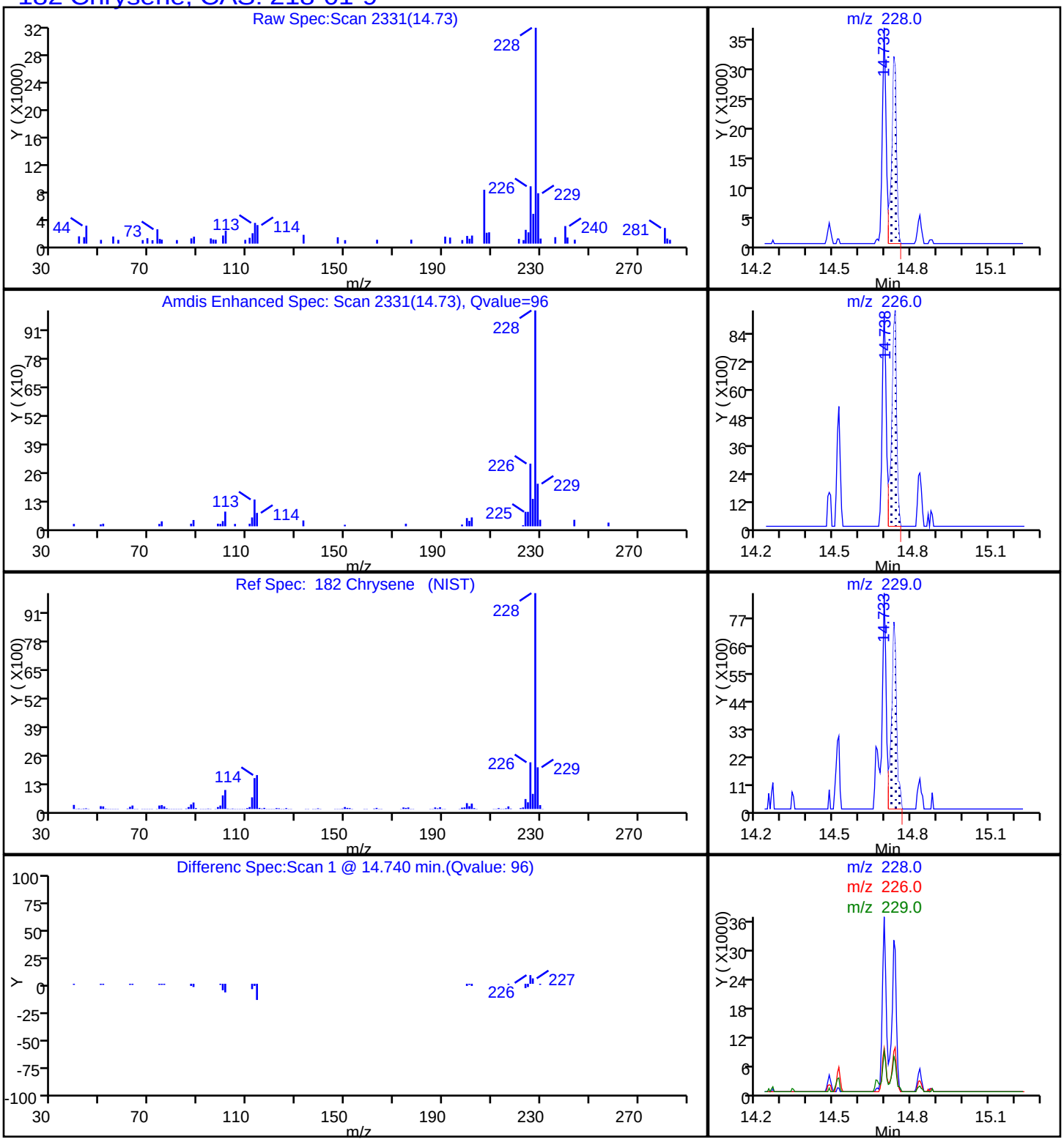
187 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D				
Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

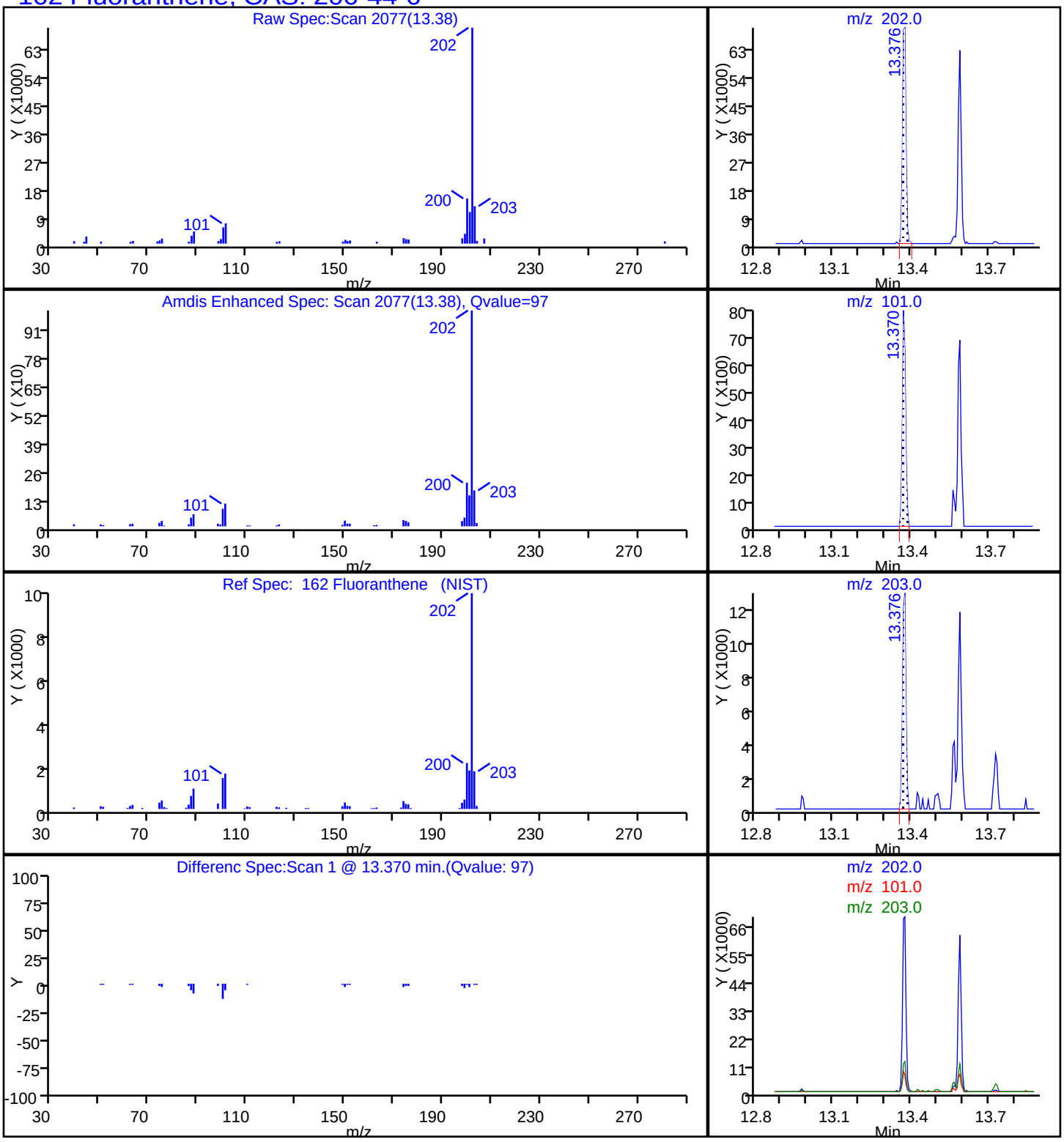
182 Chrysene, CAS: 218-01-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D				
Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

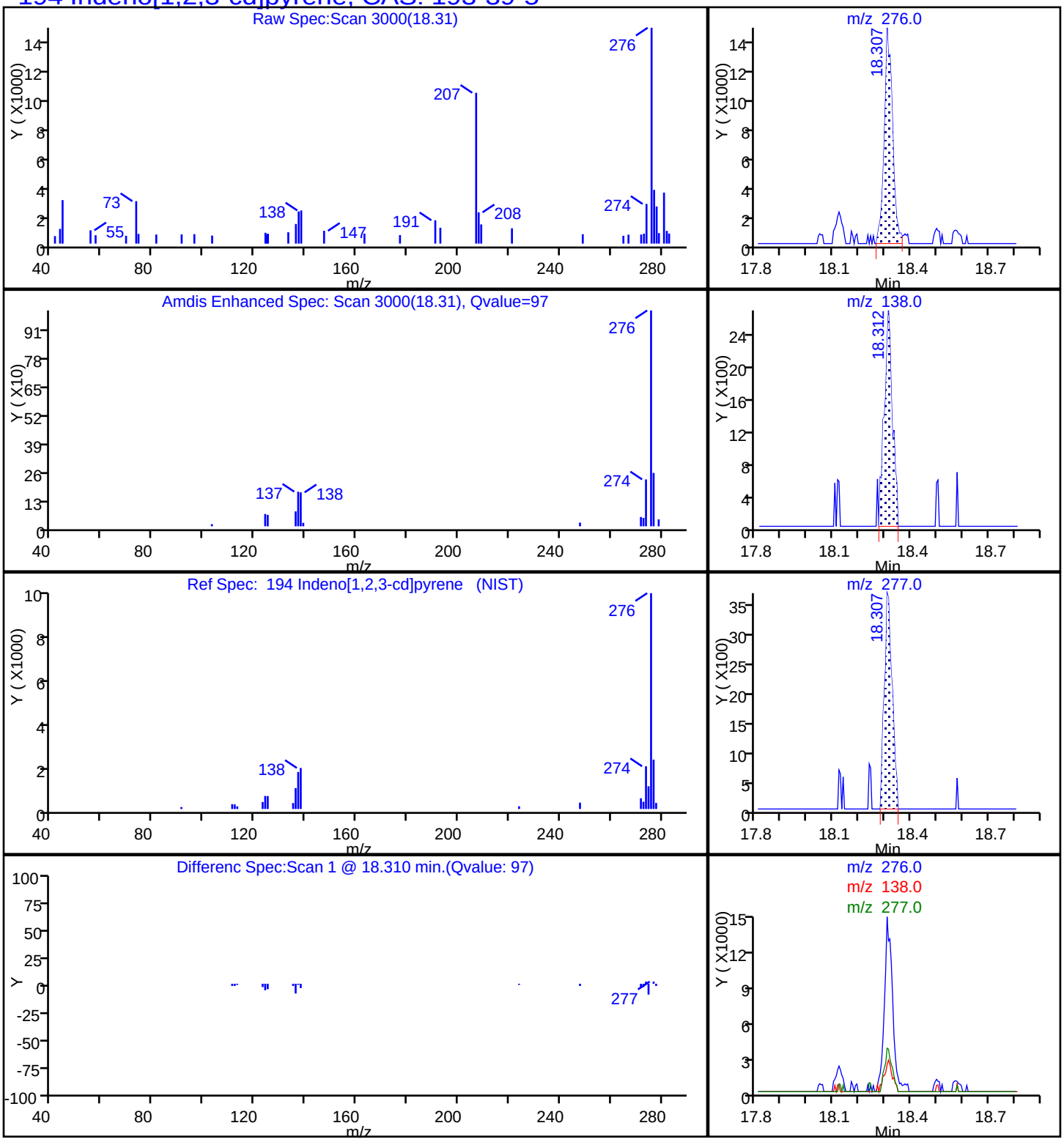
162 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D				
Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

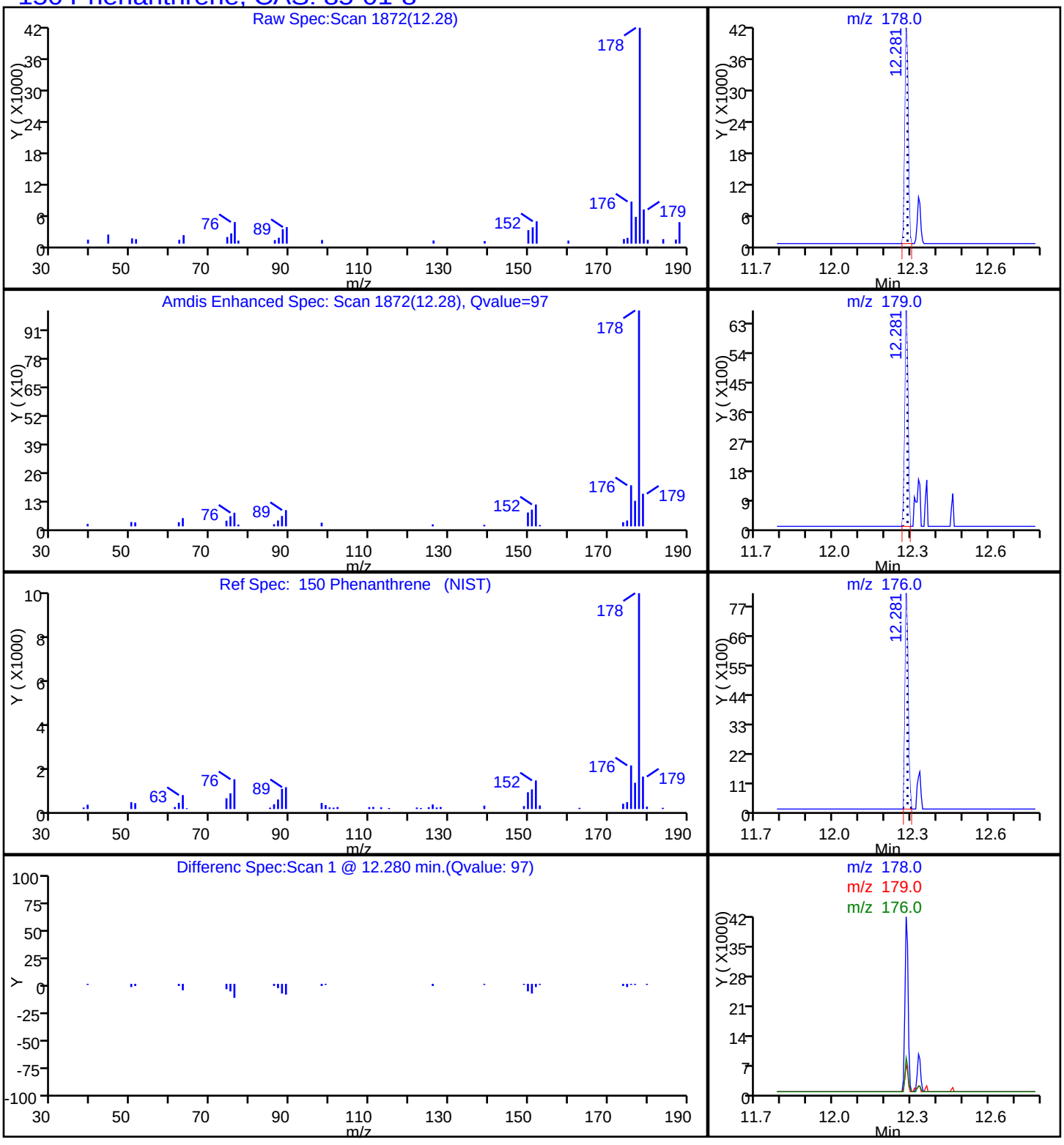
194 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D				
Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

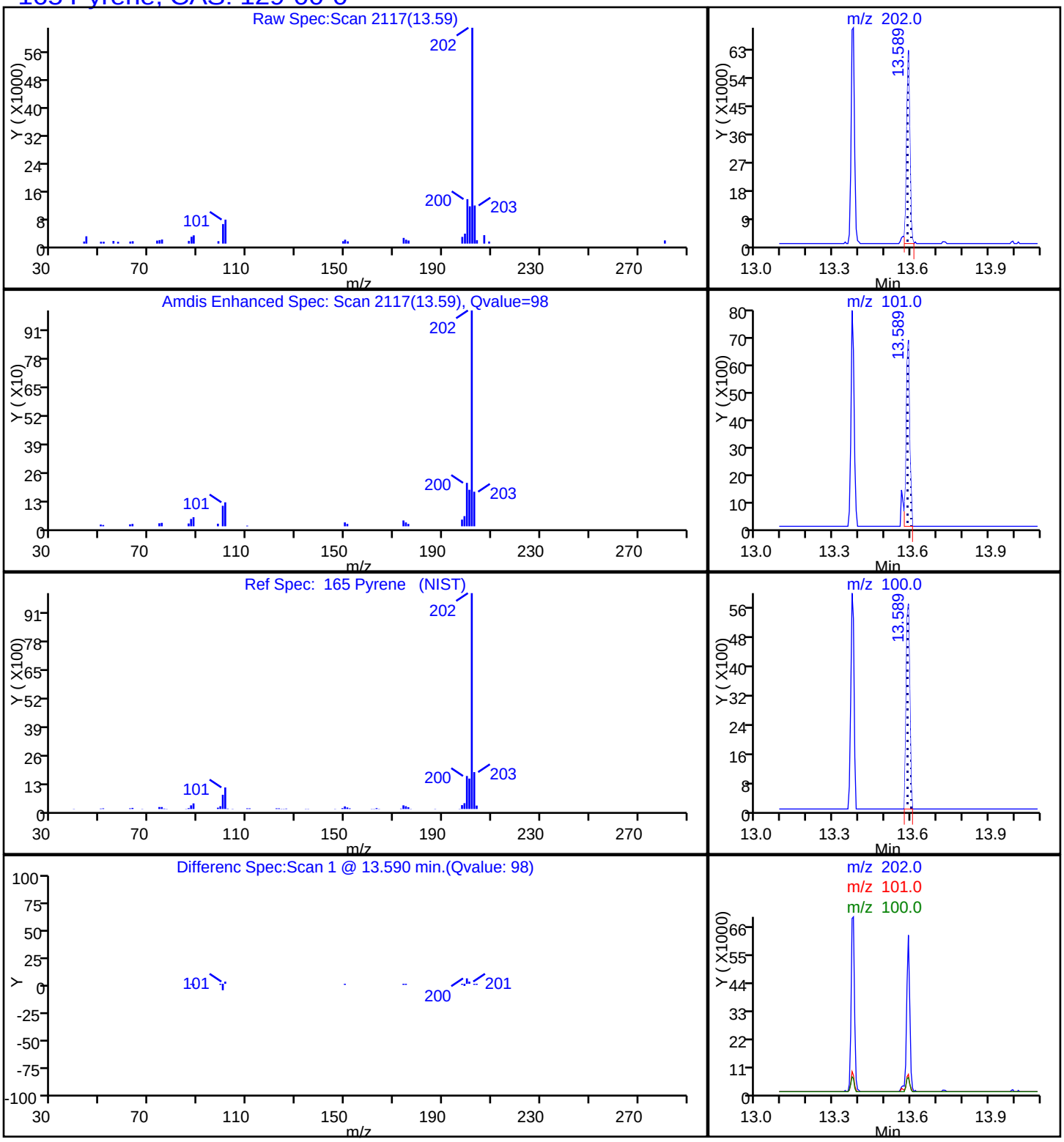
150 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D				
Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

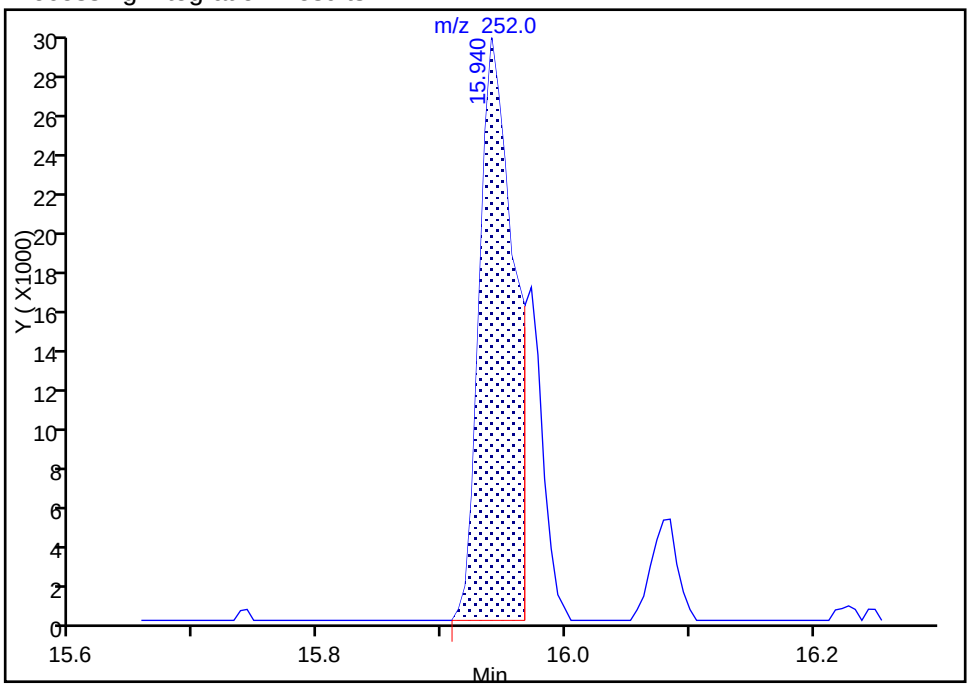
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328819.D				
Injection Date:	13-Nov-2017 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-4-A	Lab Sample ID:	480-127239-4		
Client ID:	NS-WEST-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

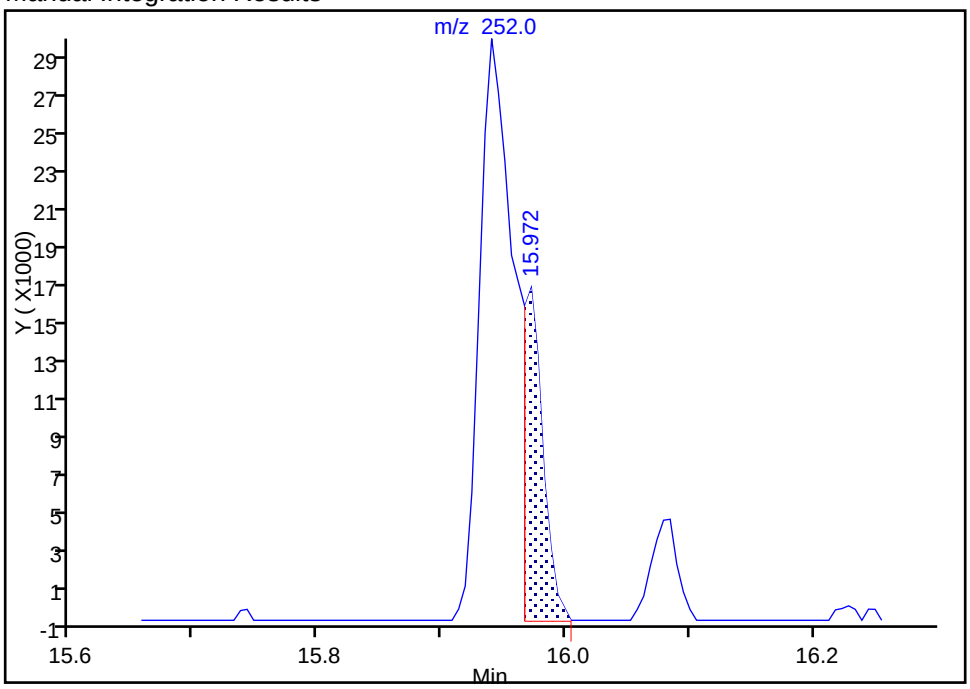
Processing Integration Results

RT: 15.94
Area: 58656
Amount: 3.846778
Amount Units: ng/uL



Manual Integration Results

RT: 15.97
Area: 19336
Amount: 1.268094
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:29:09

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 0-2" | Lab Sample ID: 480-127239-5

Matrix: Solid | Lab File ID: U328820.D

Analysis Method: 8270D | Date Collected: 11/07/2017 15:20

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.67(g) | Date Analyzed: 11/13/2017 17:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2000	300
108-60-1	bis (2-chloroisopropyl) ether	ND		2000	400
95-95-4	2,4,5-Trichlorophenol	ND		2000	550
88-06-2	2,4,6-Trichlorophenol	ND		2000	400
120-83-2	2,4-Dichlorophenol	ND		2000	210
105-67-9	2,4-Dimethylphenol	ND		2000	490
51-28-5	2,4-Dinitrophenol	ND		20000	9300
121-14-2	2,4-Dinitrotoluene	ND		2000	420
606-20-2	2,6-Dinitrotoluene	ND		2000	240
91-58-7	2-Chloronaphthalene	ND		2000	330
95-57-8	2-Chlorophenol	ND		2000	370
91-57-6	2-Methylnaphthalene	ND		2000	400
95-48-7	2-Methylphenol	ND		2000	240
88-74-4	2-Nitroaniline	ND		3900	300
88-75-5	2-Nitrophenol	ND		2000	570
91-94-1	3,3'-Dichlorobenzidine	ND		3900	2400
99-09-2	3-Nitroaniline	ND		3900	560
534-52-1	4,6-Dinitro-2-methylphenol	ND		3900	2000
101-55-3	4-Bromophenyl phenyl ether	ND		2000	290
59-50-7	4-Chloro-3-methylphenol	ND		2000	500
106-47-8	4-Chloroaniline	ND		2000	500
7005-72-3	4-Chlorophenyl phenyl ether	ND		2000	250
106-44-5	4-Methylphenol	ND		3900	240
100-01-6	4-Nitroaniline	ND		3900	1100
100-02-7	4-Nitrophenol	ND		3900	1400
83-32-9	Acenaphthene	ND		2000	300
208-96-8	Acenaphthylene	ND		2000	260
98-86-2	Acetophenone	ND		2000	270
120-12-7	Anthracene	570	J	2000	500
1912-24-9	Atrazine	ND		2000	700
100-52-7	Benzaldehyde	ND		2000	1600
56-55-3	Benzo(a)anthracene	1600	J	2000	200
50-32-8	Benzo(a)pyrene	1600	J	2000	300
205-99-2	Benzo(b)fluoranthene	1900	J	2000	320

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 0-2" | Lab Sample ID: 480-127239-5

Matrix: Solid | Lab File ID: U328820.D

Analysis Method: 8270D | Date Collected: 11/07/2017 15:20

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.67(g) | Date Analyzed: 11/13/2017 17:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1300	J	2000	210
207-08-9	Benzo(k)fluoranthene	910	J	2000	260
111-91-1	Bis(2-chloroethoxy)methane	ND		2000	430
111-44-4	Bis(2-chloroethyl)ether	ND		2000	260
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2000	690
85-68-7	Butyl benzyl phthalate	ND		2000	330
105-60-2	Caprolactam	ND		2000	610
86-74-8	Carbazole	310	J	2000	240
218-01-9	Chrysene	1700	J	2000	450
84-74-2	Di-n-butyl phthalate	2200		2000	340
117-84-0	Di-n-octyl phthalate	ND		2000	240
53-70-3	Dibenz(a,h)anthracene	ND		2000	360
132-64-9	Dibenzofuran	ND		2000	240
84-66-2	Diethyl phthalate	ND		2000	260
131-11-3	Dimethyl phthalate	ND		2000	240
206-44-0	Fluoranthene	3200		2000	210
86-73-7	Fluorene	240	J	2000	240
118-74-1	Hexachlorobenzene	ND		2000	270
87-68-3	Hexachlorobutadiene	ND		2000	300
77-47-4	Hexachlorocyclopentadiene	ND		2000	270
67-72-1	Hexachloroethane	ND		2000	260
193-39-5	Indeno(1,2,3-cd)pyrene	1000	J	2000	250
78-59-1	Isophorone	ND		2000	430
621-64-7	N-Nitrosodi-n-propylamine	ND		2000	340
86-30-6	N-Nitrosodiphenylamine	ND		2000	1600
91-20-3	Naphthalene	ND		2000	260
98-95-3	Nitrobenzene	ND		2000	230
87-86-5	Pentachlorophenol	ND		3900	2000
85-01-8	Phenanthrene	2400		2000	300
108-95-2	Phenol	ND		2000	310
129-00-0	Pyrene	3000		2000	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 0-2" | Lab Sample ID: 480-127239-5

Matrix: Solid | Lab File ID: U328820.D

Analysis Method: 8270D | Date Collected: 11/07/2017 15:20

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.67(g) | Date Analyzed: 11/13/2017 17:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	111		54-120
321-60-8	2-Fluorobiphenyl	91		60-120
367-12-4	2-Fluorophenol	76		52-120
4165-60-0	Nitrobenzene-d5	71		53-120
1718-51-0	p-Terphenyl-d14	103		65-121
4165-62-2	Phenol-d5	83		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D
Lims ID: 480-127239-A-5-A
Client ID: NS-SBN-SOIL 0-2"
Sample Type: Client
Inject. Date: 13-Nov-2017 17:56:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0067222-009
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 14-Nov-2017 11:42:47 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: richardsd Date: 14-Nov-2017 11:31:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	97	92154	40.0	
* 2 Naphthalene-d8	136	8.733	8.739	-0.006	99	342248	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	-0.001	97	177306	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	98	351273	40.0	
* 5 Chrysene-d12	240	14.706	14.711	-0.005	96	463473	40.0	
* 6 Perylene-d12	264	16.485	16.485	0.000	99	520663	40.0	
$ 7 2-Fluorophenol	112	5.661	5.656	0.005	94	9348	3.03	
$ 8 Phenol-d5	99	6.730	6.730	0.000	94	12555	3.31	
$ 9 Nitrobenzene-d5	82	7.862	7.862	0.000	97	10584	2.84	
$ 10 2-Fluorobiphenyl	172	9.983	9.983	0.000	99	25153	3.64	
$ 11 2,4,6-Tribromophenol	330	11.575	11.581	-0.006	89	2955	4.44	
$ 12 p-Terphenyl-d14	244	13.669	13.669	0.000	99	34409	4.12	
32 Benzaldehyde	77		6.703				ND	
33 Phenol	94		6.751				ND	
35 Bis(2-chloroethyl)ether	93		6.869				ND	
37 2-Chlorophenol	128		6.981				ND	
43 2-Methylphenol	108		7.467				ND	
44 2,2'-oxybis[1-chloropropan	45		7.504				ND	
46 4-Methylphenol	108		7.638				ND	
47 N-Nitrosodi-n-propylamine	70		7.654				ND	
49 Acetophenone	105		7.675				ND	
53 Hexachloroethane	117		7.846				ND	
54 Nitrobenzene	77		7.884				ND	
56 Isophorone	82		8.156				ND	
59 2-Nitrophenol	139		8.268				ND	
60 2,4-Dimethylphenol	107		8.274				ND	
62 Bis(2-chloroethoxy)methane	93		8.381				ND	
67 2,4-Dichlorophenol	162		8.546				ND	
70 Naphthalene	128		8.760				ND	
72 4-Chloroaniline	127		8.792				ND	
74 Hexachlorobutadiene	225		8.904				ND	
76 Caprolactam	113		9.171				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		9.337				ND	
83 2-Methylnaphthalene	142		9.577				ND	
86 Hexachlorocyclopentadiene	237		9.775				ND	
89 2,4,6-Trichlorophenol	196		9.898				ND	
91 2,4,5-Trichlorophenol	196		9.941				ND	
94 1,1'-Biphenyl	154		10.106				ND	
95 2-Chloronaphthalene	162		10.149				ND	
98 2-Nitroaniline	65		10.234				ND	
102 Dimethyl phthalate	163		10.411				ND	
104 2,6-Dinitrotoluene	165		10.485				ND	
105 Acenaphthylene	152		10.614				ND	
106 3-Nitroaniline	138		10.683				ND	
107 2,4-Dinitrophenol	184		10.790				ND	
108 Acenaphthene	153	10.801	10.801	0.000	93	4164	0.7245	
109 4-Nitrophenol	109		10.833				ND	
111 2,4-Dinitrotoluene	165		10.929				ND	
112 Dibenzofuran	168		10.982				ND	
118 Diethyl phthalate	149		11.153				ND	
121 4-Chlorophenyl phenyl ethe	204		11.308				ND	
122 4-Nitroaniline	138		11.324				ND	
123 Fluorene	166	11.335	11.335	0.000	90	4036	0.5975	
125 4,6-Dinitro-2-methylphenol	198		11.356				ND	
127 N-Nitrosodiphenylamine	169		11.420				ND	
137 4-Bromophenyl phenyl ether	248		11.800				ND	
139 Hexachlorobenzene	284		11.901				ND	
141 Atrazine	200		11.912				ND	
143 Pentachlorophenol	266		12.072				ND	
150 Phenanthrene	178	12.280	12.286	-0.006	96	61665	6.09	
151 Anthracene	178	12.328	12.329	0.000	96	15168	1.45	
152 Carbazole	167	12.457	12.457	0.000	95	7365	0.7954	
155 Di-n-butyl phthalate	149	12.708	12.708	0.000	99	59586	5.68	
162 Fluoranthene	202	13.376	13.376	0.000	97	94214	8.11	
165 Pyrene	202	13.589	13.589	0.000	98	79201	7.64	
172 Butyl benzyl phthalate	149		14.059				ND	
178 Bis(2-ethylhexyl) phthalat	149	14.551	14.551	0.000	95	8448	1.34	
179 3,3'-Dichlorobenzidine	252		14.615				ND	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	96	53533	4.02	
182 Chrysene	228	14.732	14.738	-0.006	95	53676	4.18	
183 Di-n-octyl phthalate	149		15.208				ND	
185 Benzo[b]fluoranthene	252	15.940	15.940	0.000	95	71501	4.68	
187 Benzo[k]fluoranthene	252	15.967	15.977	-0.010	97	35905	2.29	M
190 Benzo[a]pyrene	252	16.410	16.410	0.000	75	58869	3.97	
193 Dibenz(a,h)anthracene	278		18.306				ND	
194 Indeno[1,2,3-cd]pyrene	276	18.312	18.317	-0.005	96	43523	2.63	
195 Benzo[g,h,i]perylene	276	18.883	18.894	-0.011	97	41787	3.19	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent	

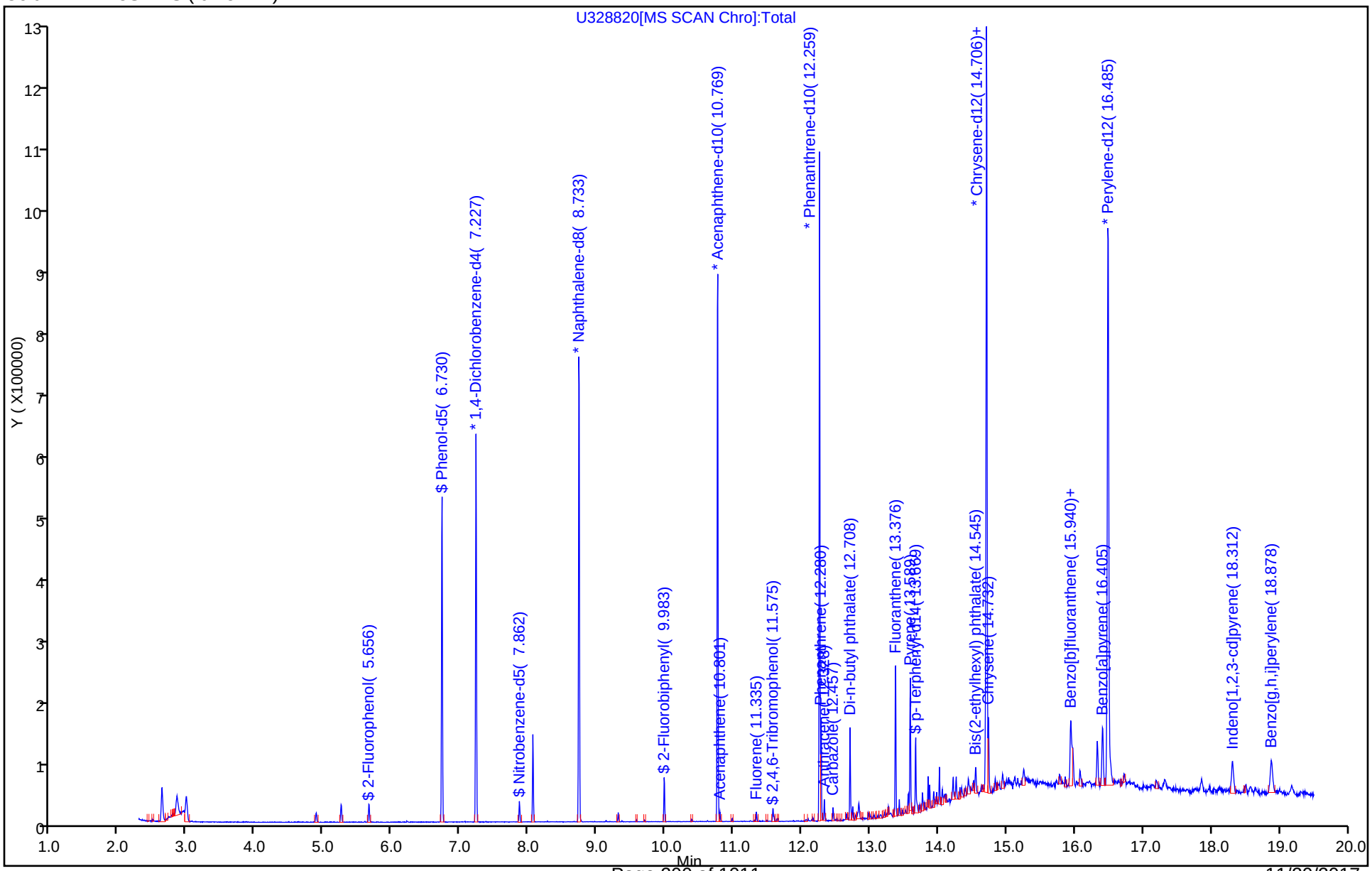
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D

Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5	Worklist Smp#:	9
Client ID:	NS-SBN-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	9
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

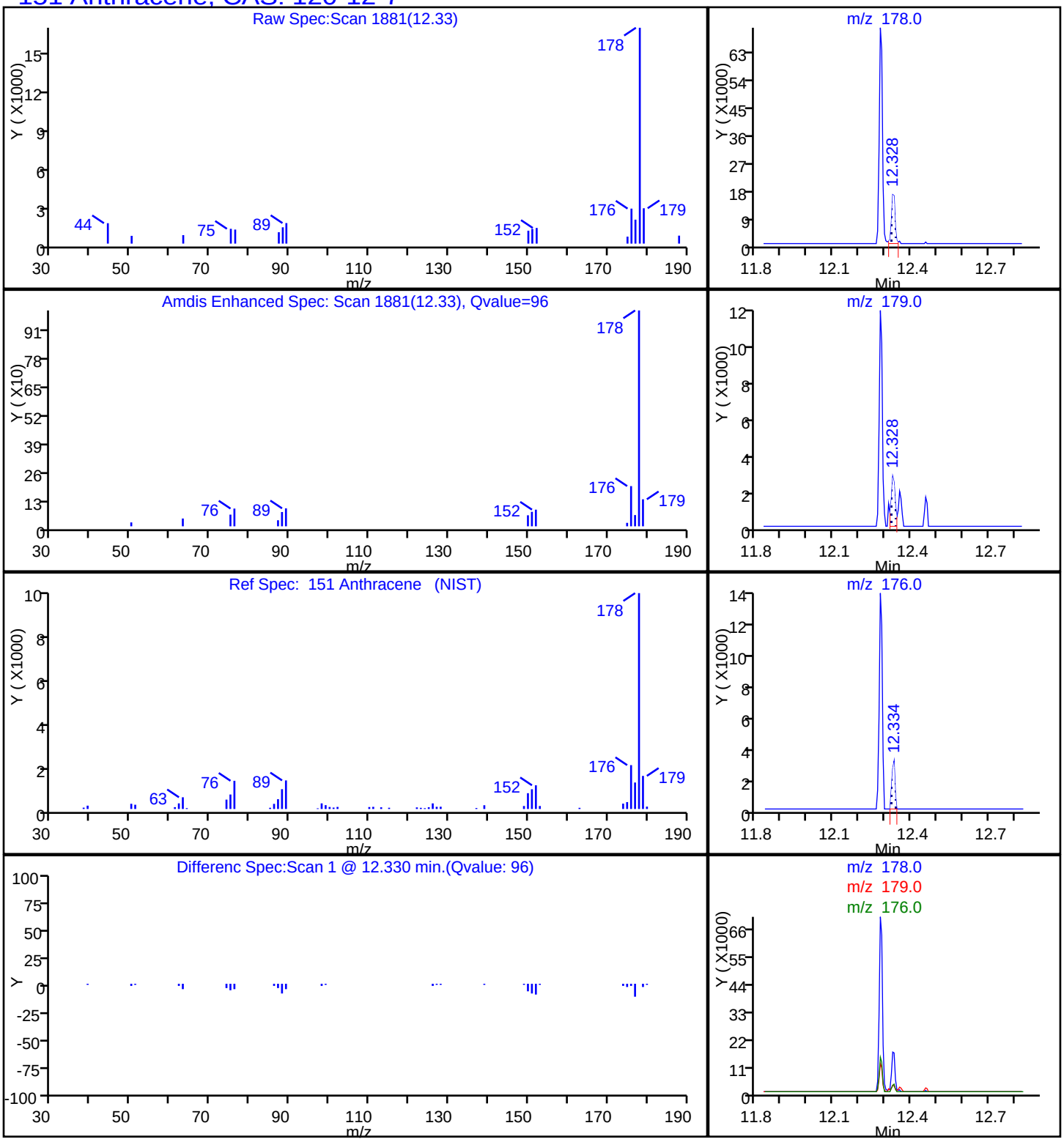
Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

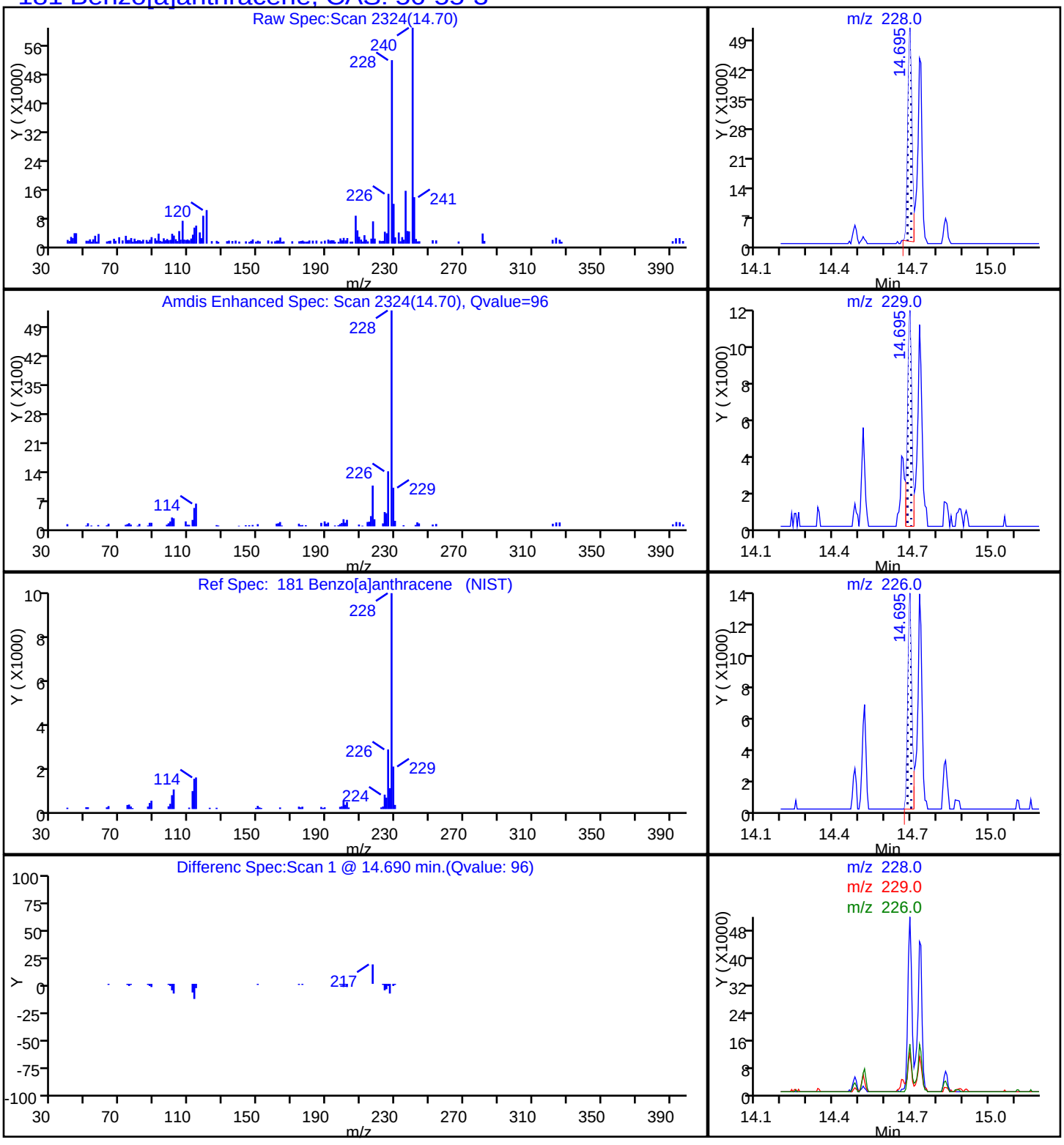
151 Anthracene, CAS: 120-12-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

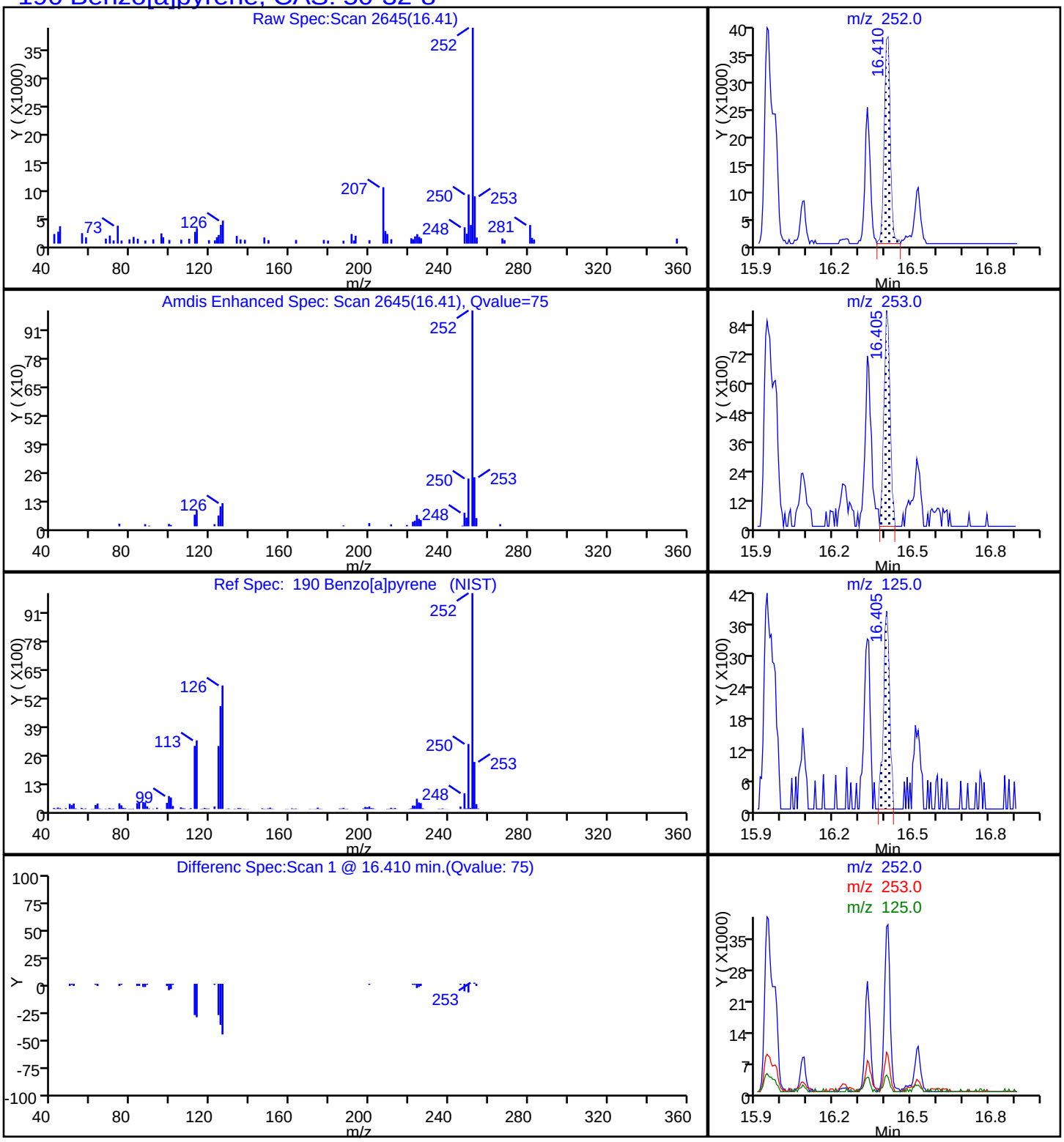
181 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

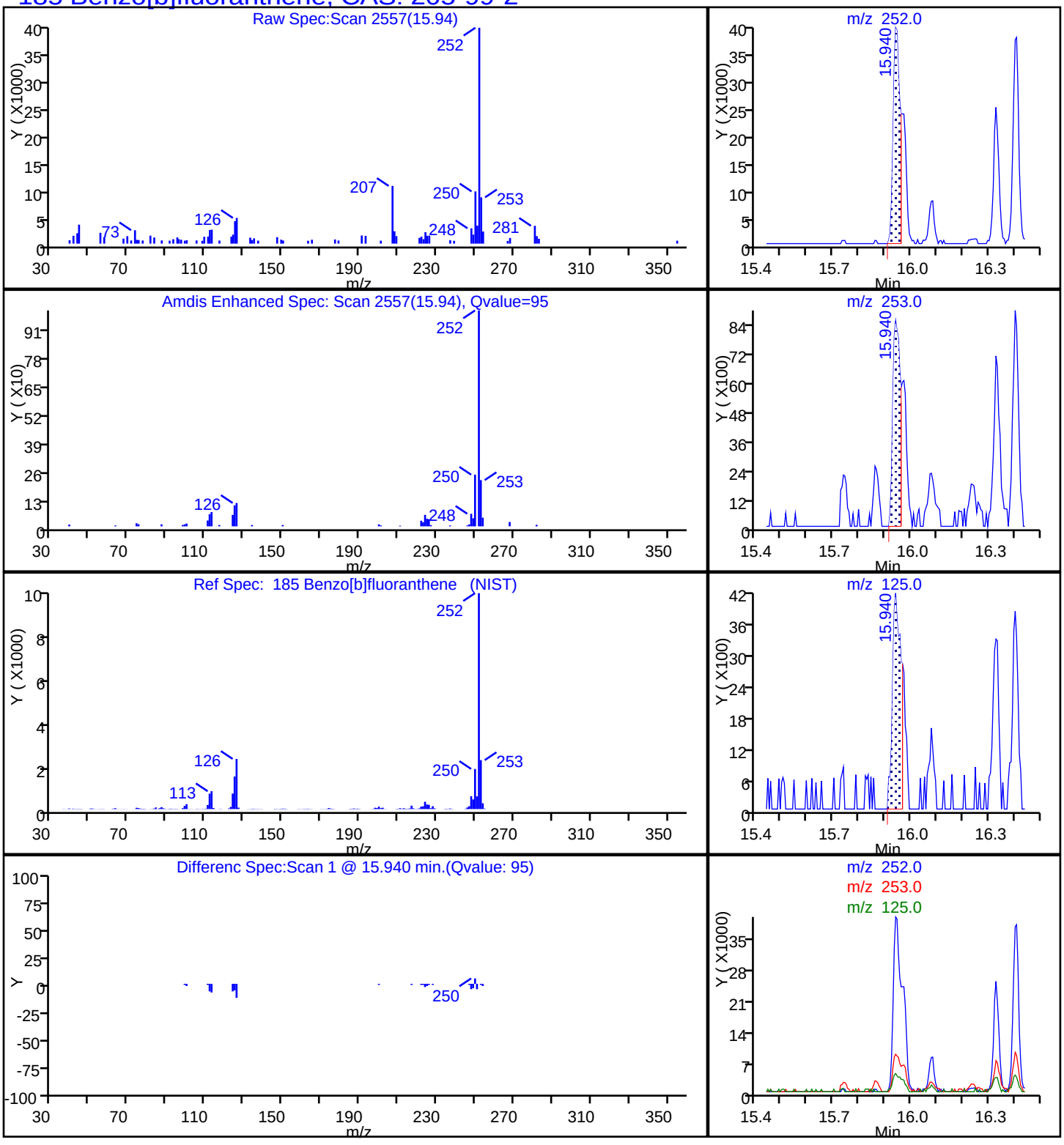
190 Benzo[a]pyrene, CAS: 50-32-8



Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D

Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

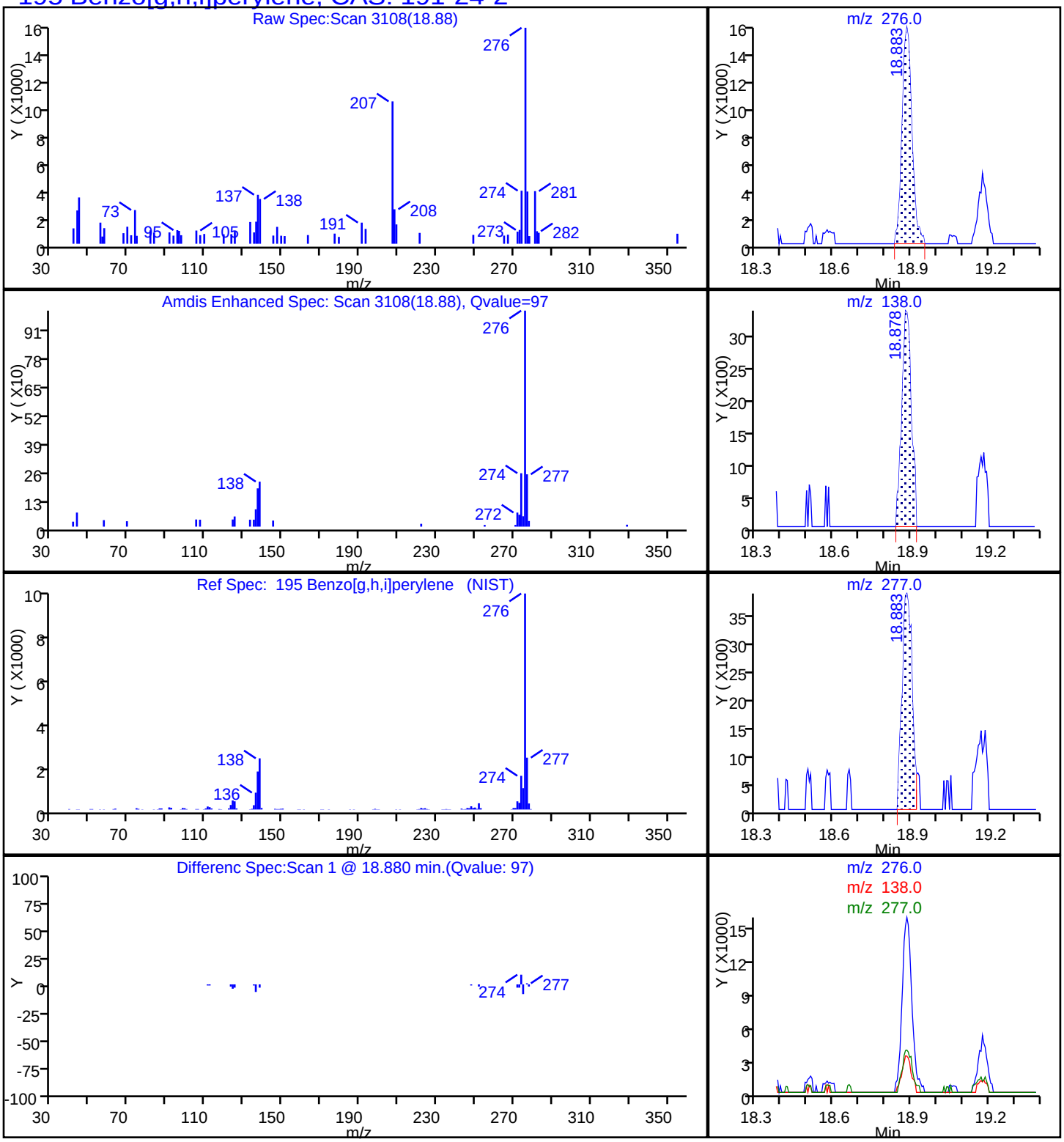
185 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

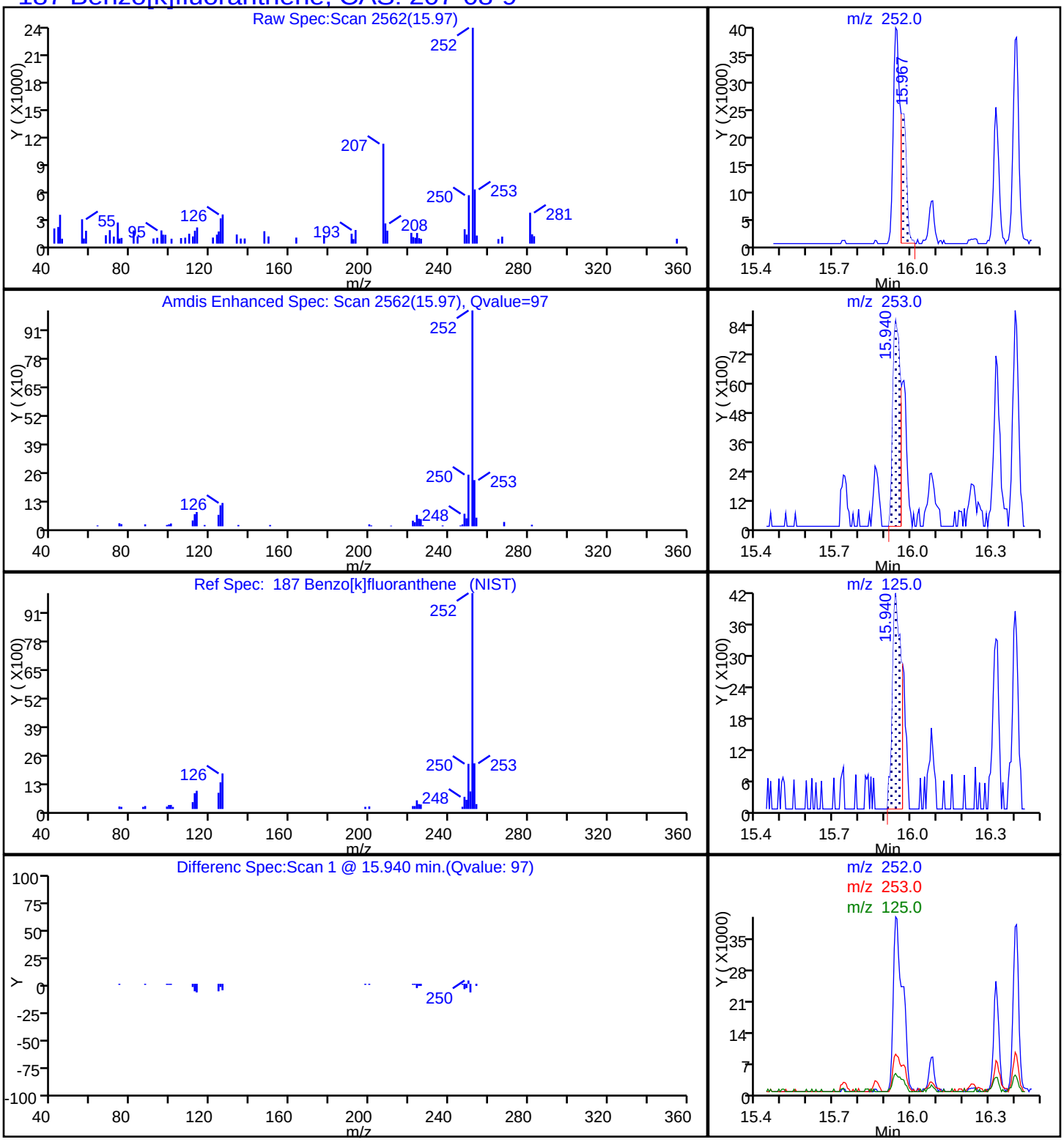
195 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

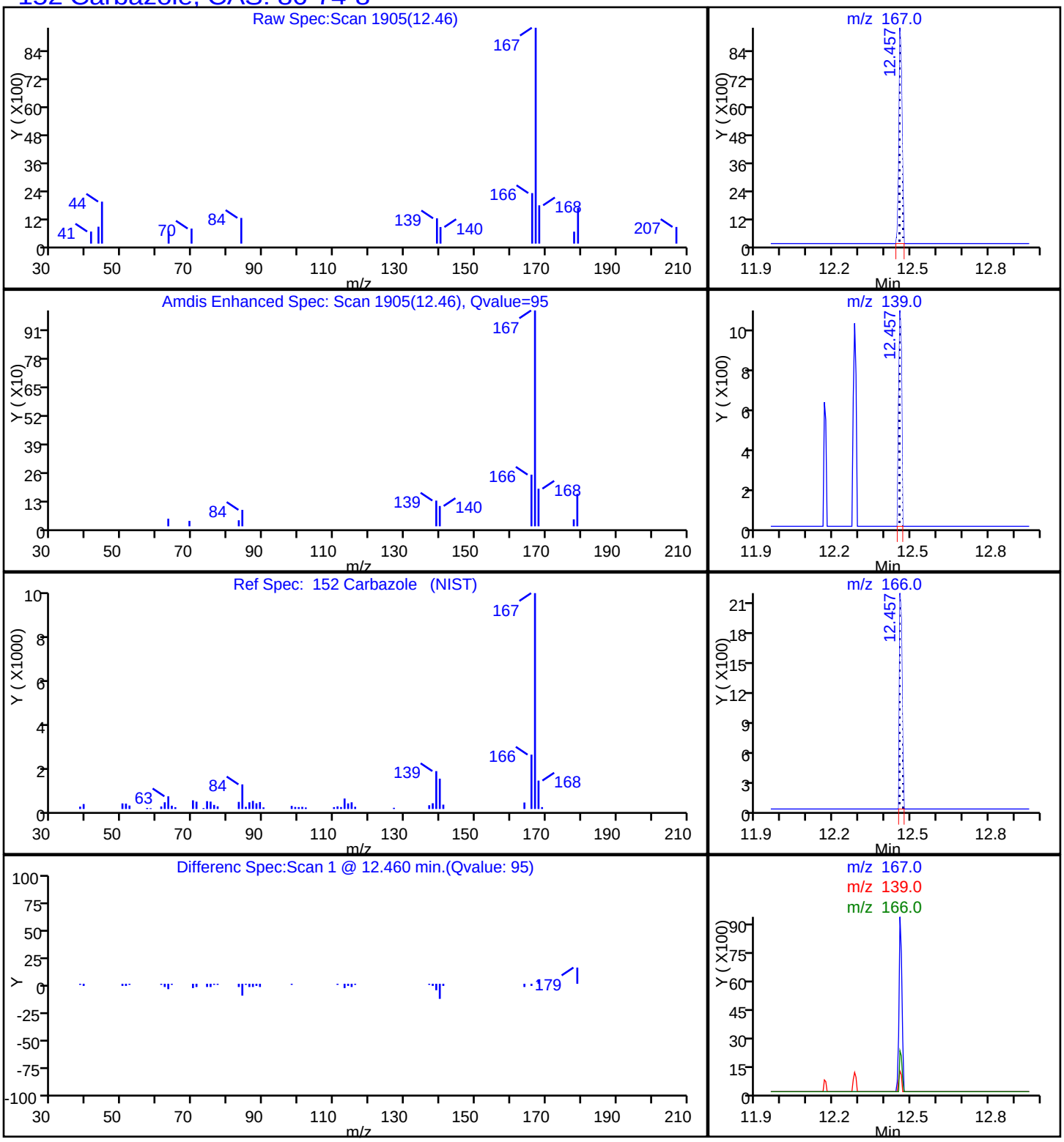
187 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

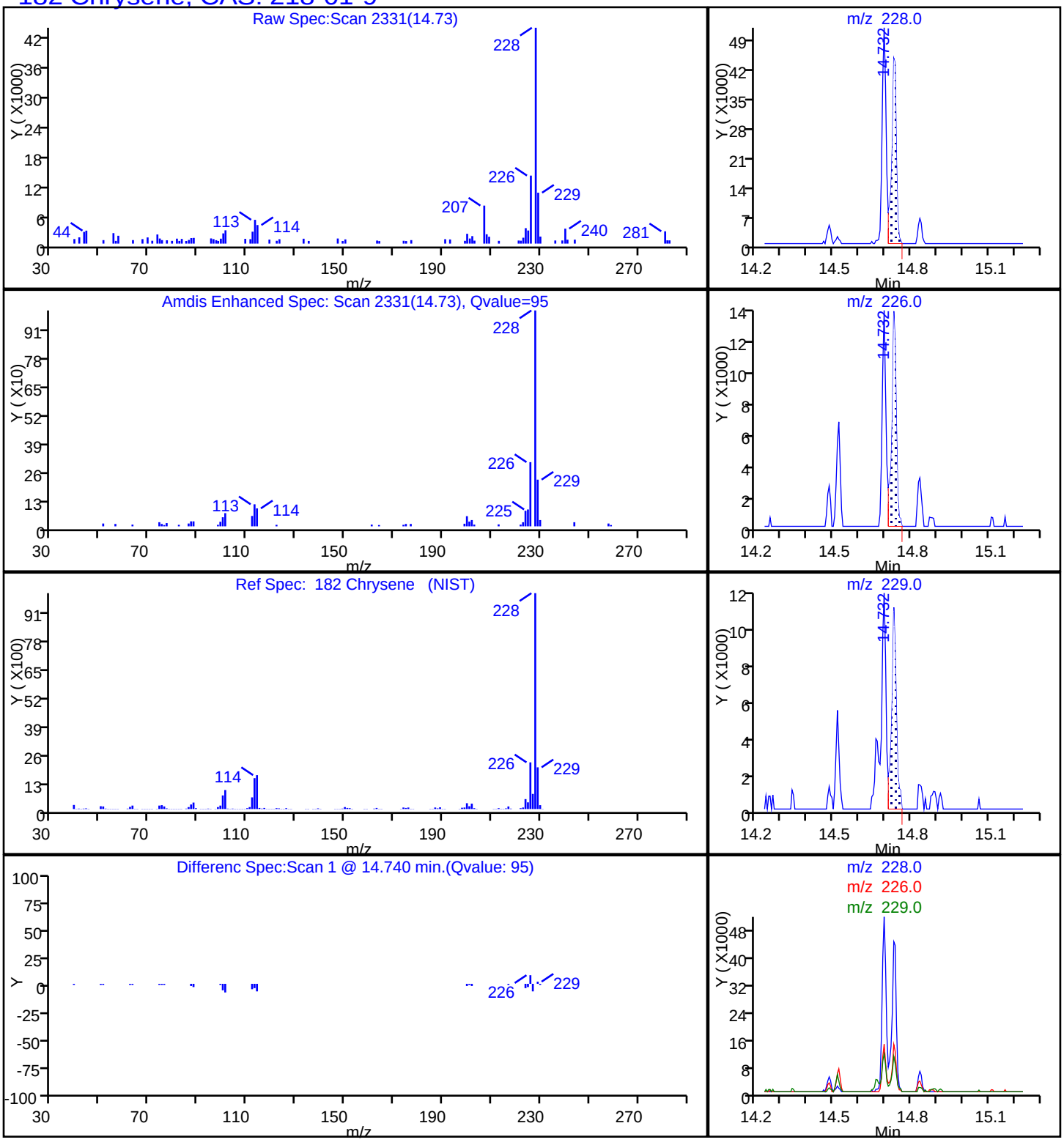
152 Carbazole, CAS: 86-74-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D		
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5
Client ID:	NS-SBN-SOIL 0-2"		
Operator ID:	DR	ALS Bottle#:	9 Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

182 Chrysene, CAS: 218-01-9



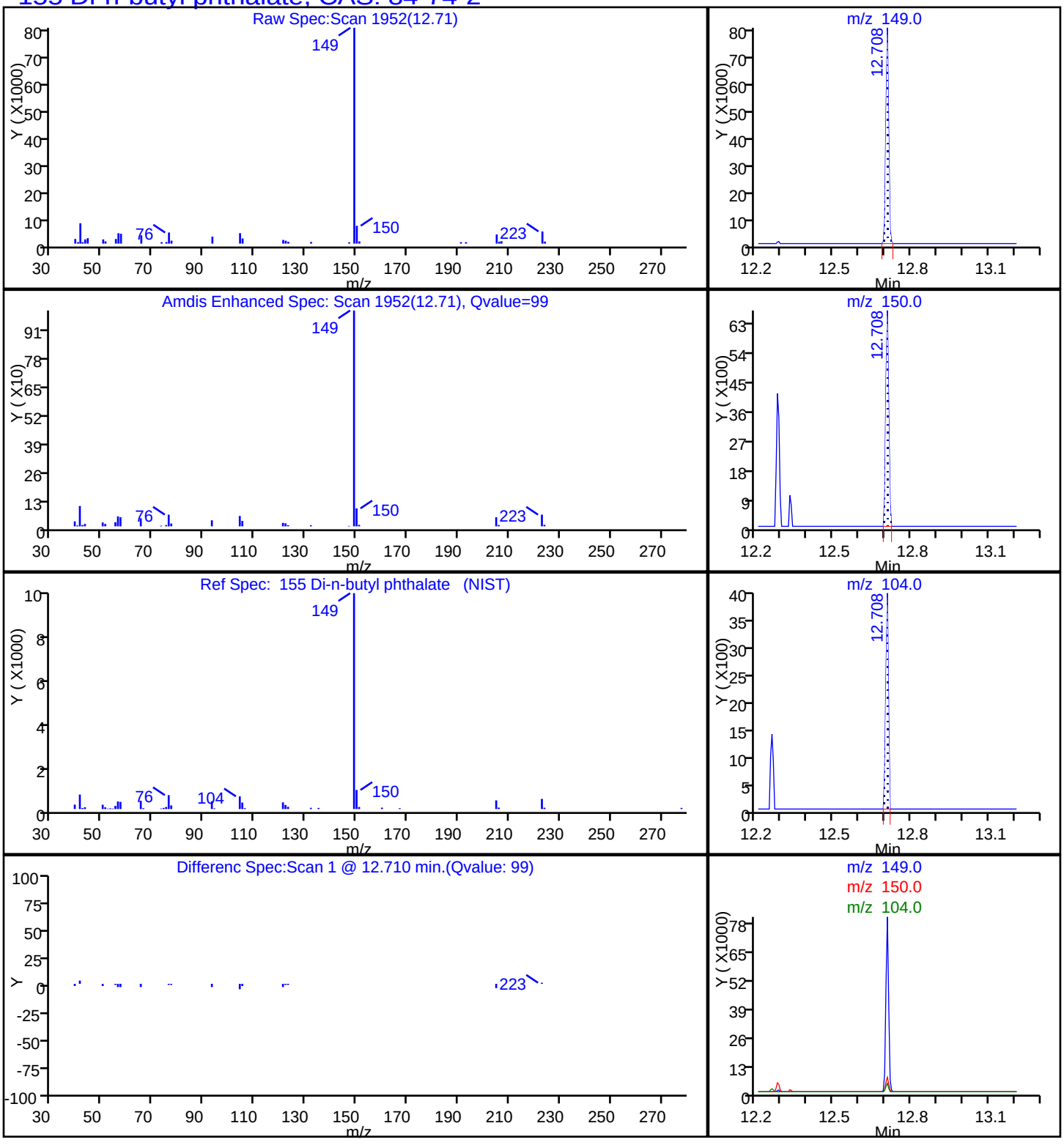
Report Date: 14-Nov-2017 11:50:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D

Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

155 Di-n-butyl phthalate, CAS: 84-74-2



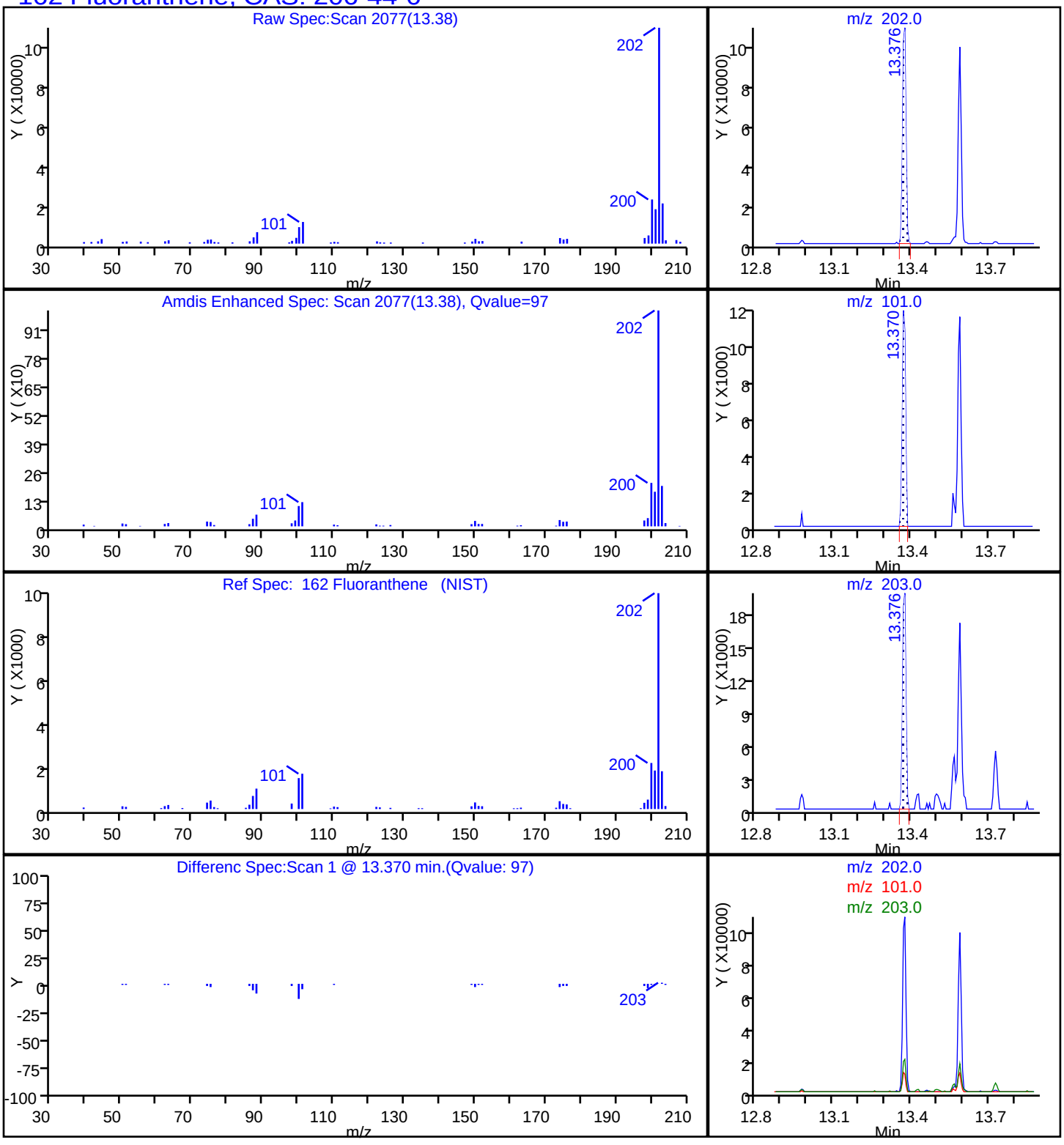
Report Date: 14-Nov-2017 11:50:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D

Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

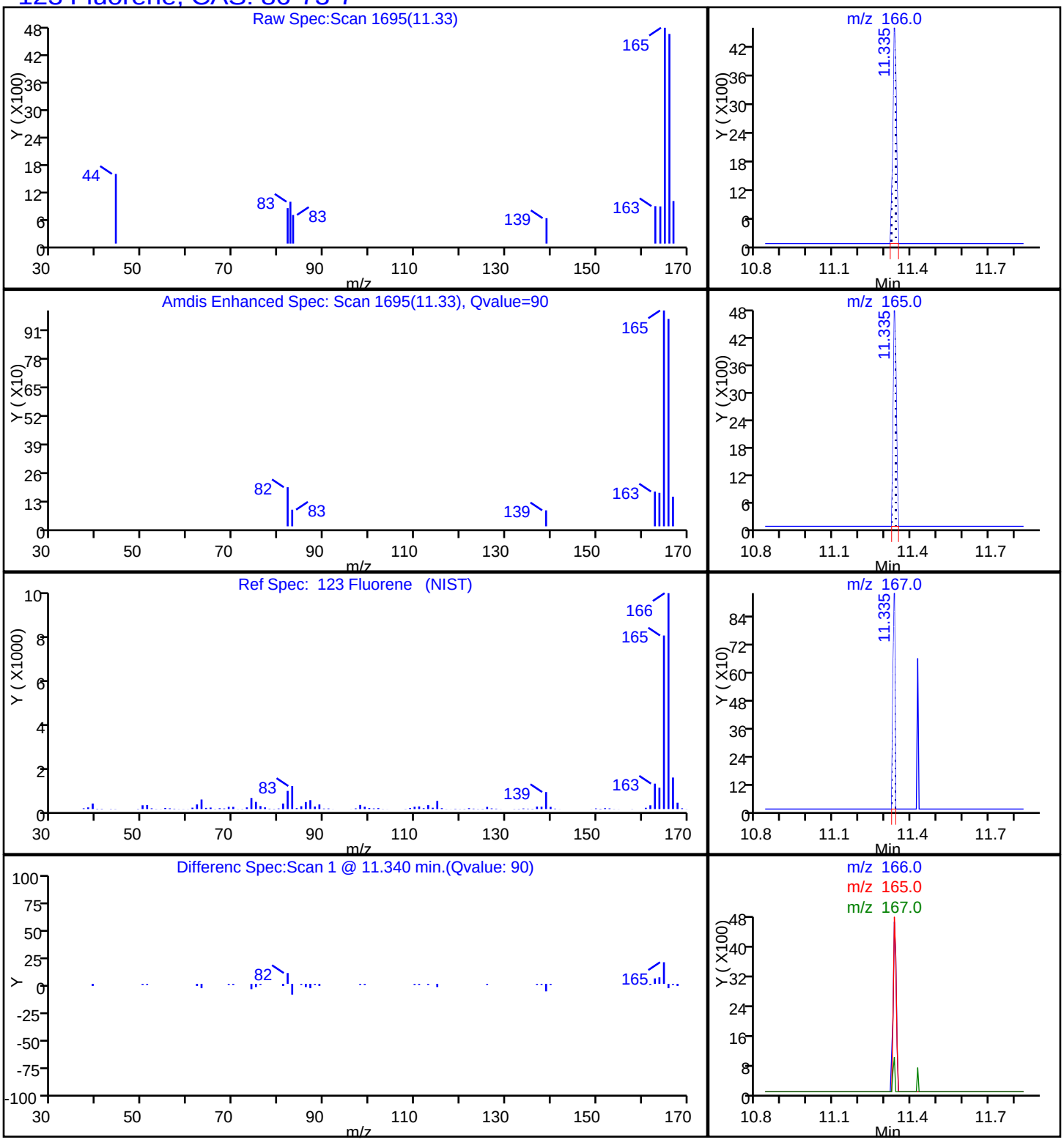
162 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

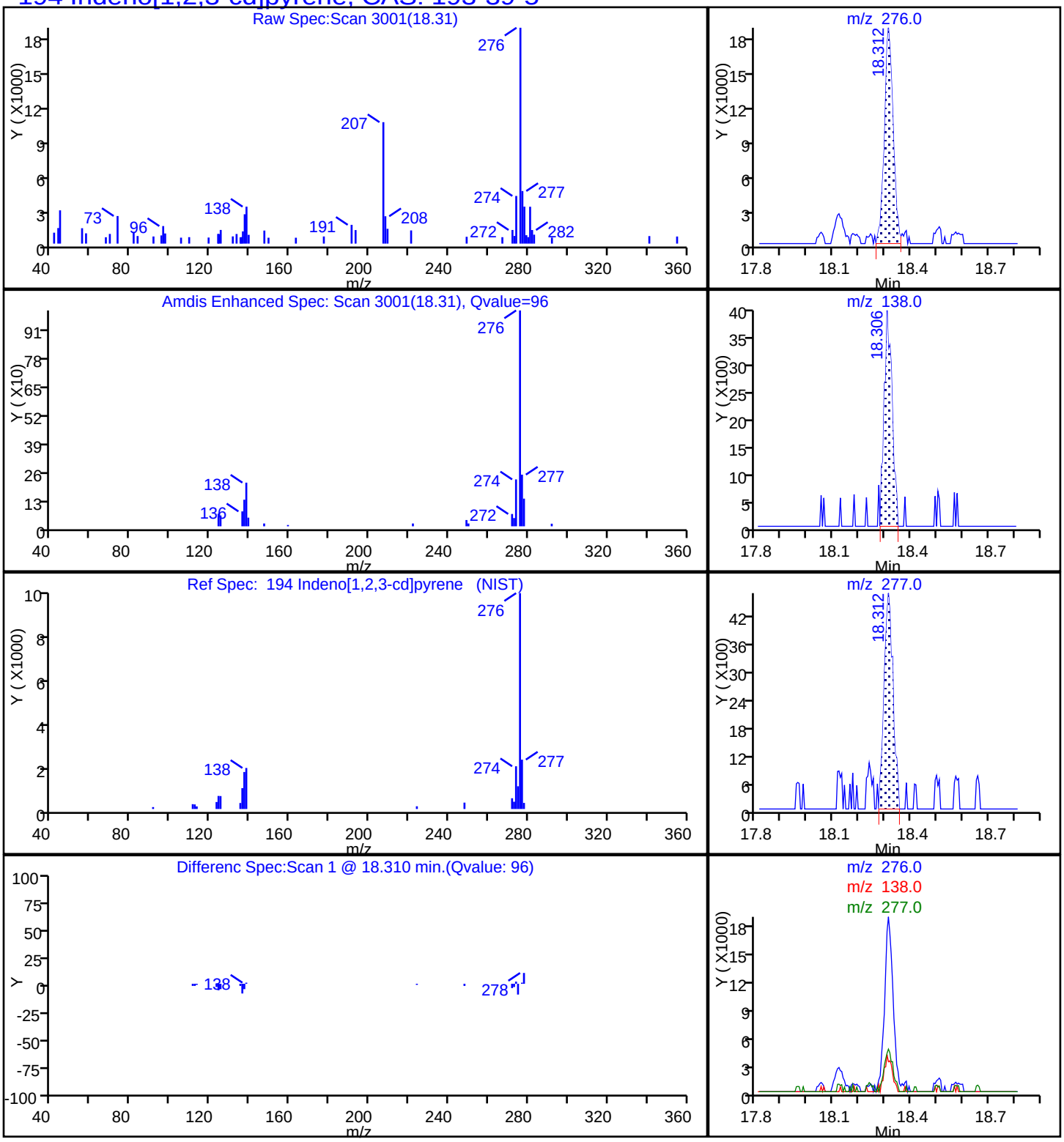
123 Fluorene, CAS: 86-73-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

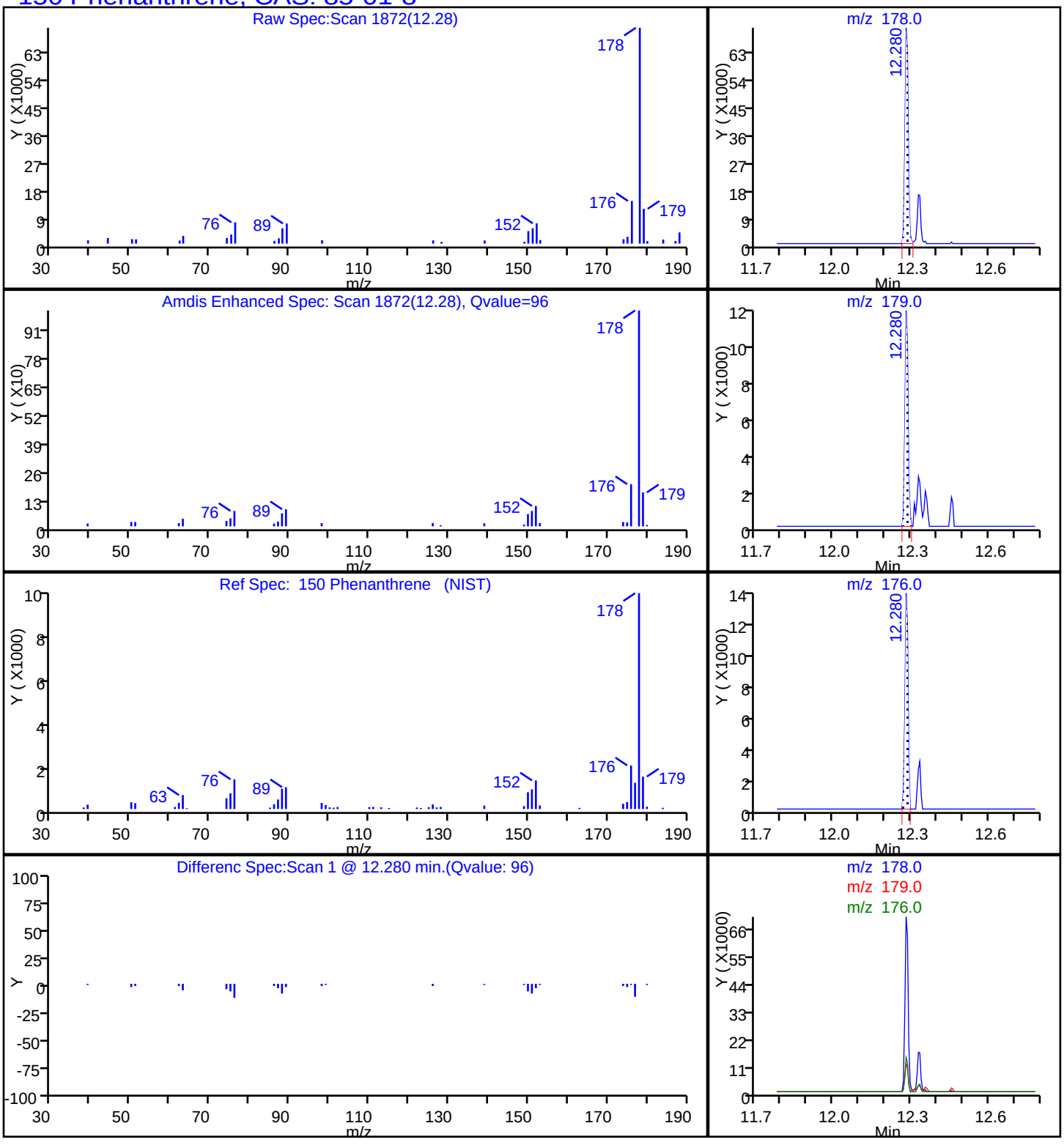
194 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

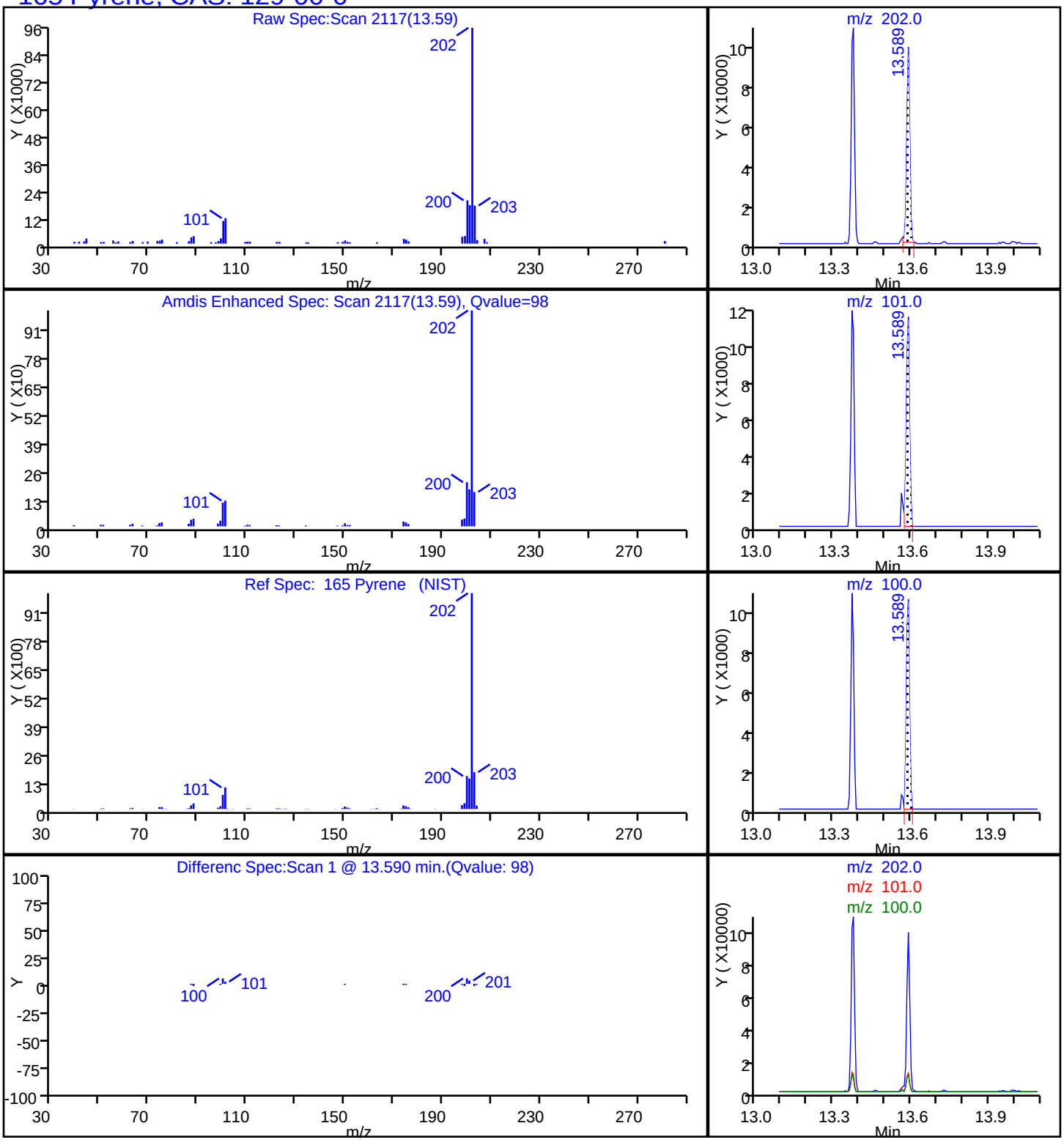
150 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

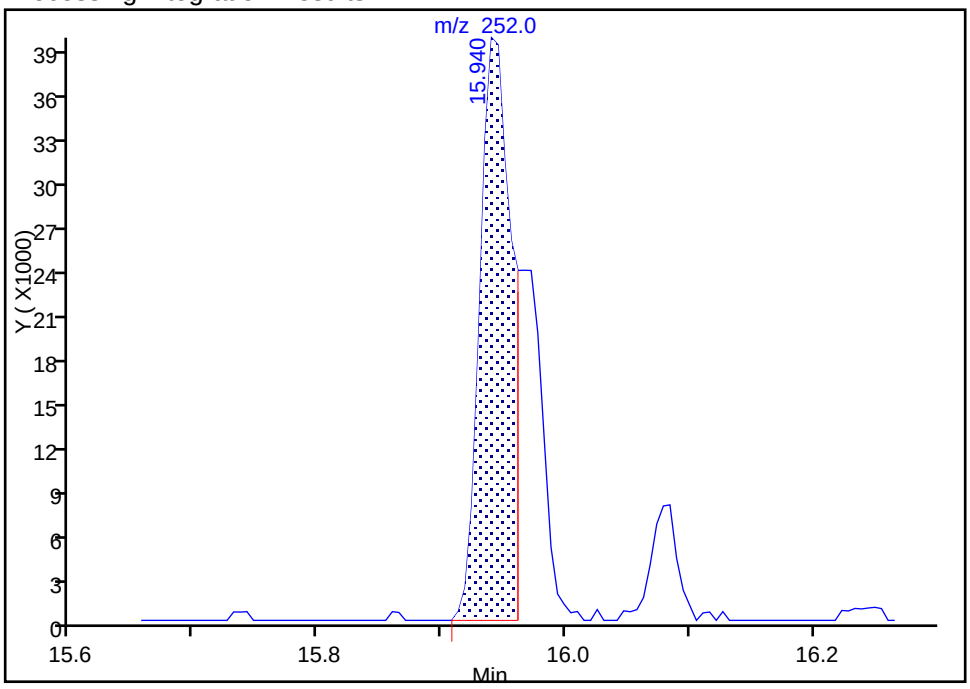
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328820.D				
Injection Date:	13-Nov-2017 17:56:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-5-A	Lab Sample ID:	480-127239-5		
Client ID:	NS-SBN-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

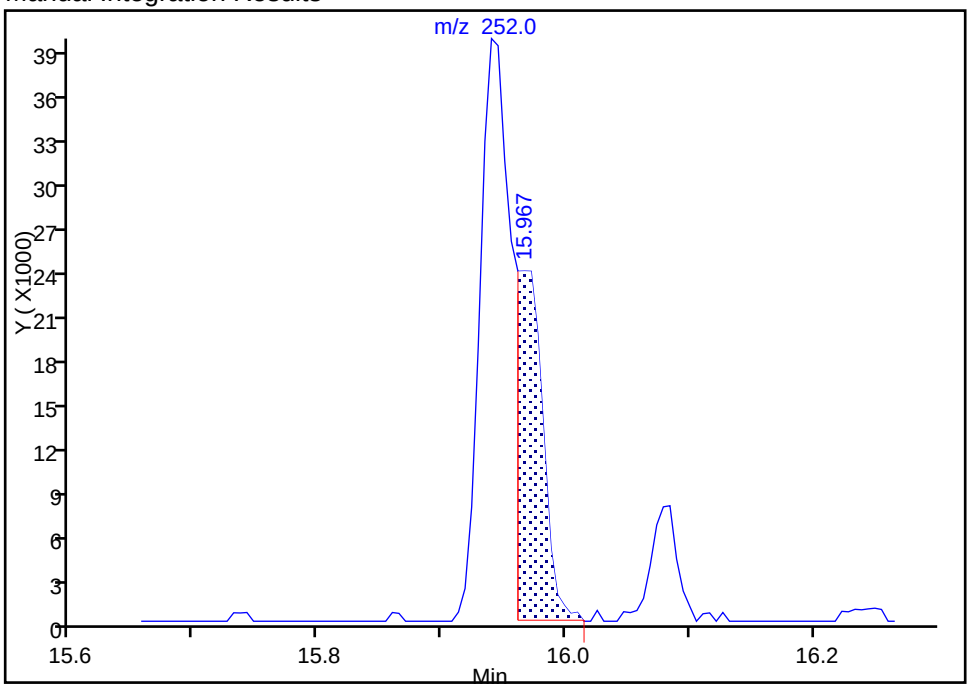
Processing Integration Results

RT: 15.94
Area: 71501
Amount: 4.565614
Amount Units: ng/uL



Manual Integration Results

RT: 15.97
Area: 35905
Amount: 2.292673
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:31:50

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 0-2" | Lab Sample ID: 480-127239-6

Matrix: Solid | Lab File ID: U328821.D

Analysis Method: 8270D | Date Collected: 11/07/2017 00:00

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.67(g) | Date Analyzed: 11/13/2017 18:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4500	660
108-60-1	bis (2-chloroisopropyl) ether	ND		4500	900
95-95-4	2,4,5-Trichlorophenol	ND		4500	1200
88-06-2	2,4,6-Trichlorophenol	ND		4500	900
120-83-2	2,4-Dichlorophenol	ND		4500	480
105-67-9	2,4-Dimethylphenol	ND		4500	1100
51-28-5	2,4-Dinitrophenol	ND		44000	21000
121-14-2	2,4-Dinitrotoluene	ND		4500	920
606-20-2	2,6-Dinitrotoluene	ND		4500	530
91-58-7	2-Chloronaphthalene	ND		4500	740
95-57-8	2-Chlorophenol	ND		4500	820
91-57-6	2-Methylnaphthalene	ND		4500	900
95-48-7	2-Methylphenol	ND		4500	530
88-74-4	2-Nitroaniline	ND		8700	660
88-75-5	2-Nitrophenol	ND		4500	1300
91-94-1	3,3'-Dichlorobenzidine	ND		8700	5300
99-09-2	3-Nitroaniline	ND		8700	1200
534-52-1	4,6-Dinitro-2-methylphenol	ND		8700	4500
101-55-3	4-Bromophenyl phenyl ether	ND		4500	630
59-50-7	4-Chloro-3-methylphenol	ND		4500	1100
106-47-8	4-Chloroaniline	ND		4500	1100
7005-72-3	4-Chlorophenyl phenyl ether	ND		4500	550
106-44-5	4-Methylphenol	ND		8700	530
100-01-6	4-Nitroaniline	ND		8700	2300
100-02-7	4-Nitrophenol	ND		8700	3100
83-32-9	Acenaphthene	ND		4500	660
208-96-8	Acenaphthylene	ND		4500	580
98-86-2	Acetophenone	ND		4500	610
120-12-7	Anthracene	ND		4500	1100
1912-24-9	Atrazine	ND		4500	1600
100-52-7	Benzaldehyde	ND		4500	3600
56-55-3	Benzo(a)anthracene	640	J	4500	450
50-32-8	Benzo(a)pyrene	ND		4500	660
205-99-2	Benzo(b)fluoranthene	ND		4500	710

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 0-2" | Lab Sample ID: 480-127239-6

Matrix: Solid | Lab File ID: U328821.D

Analysis Method: 8270D | Date Collected: 11/07/2017 00:00

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.67(g) | Date Analyzed: 11/13/2017 18:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4500	480
207-08-9	Benzo(k)fluoranthene	ND		4500	580
111-91-1	Bis(2-chloroethoxy)methane	ND		4500	950
111-44-4	Bis(2-chloroethyl)ether	ND		4500	580
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4500	1500
85-68-7	Butyl benzyl phthalate	ND		4500	740
105-60-2	Caprolactam	ND		4500	1300
86-74-8	Carbazole	ND		4500	530
218-01-9	Chrysene	ND		4500	1000
84-74-2	Di-n-butyl phthalate	ND		4500	770
117-84-0	Di-n-octyl phthalate	ND		4500	530
53-70-3	Dibenz(a,h)anthracene	ND		4500	790
132-64-9	Dibenzofuran	ND		4500	530
84-66-2	Diethyl phthalate	ND		4500	580
131-11-3	Dimethyl phthalate	ND		4500	530
206-44-0	Fluoranthene	1200	J	4500	480
86-73-7	Fluorene	ND		4500	530
118-74-1	Hexachlorobenzene	ND		4500	610
87-68-3	Hexachlorobutadiene	ND		4500	660
77-47-4	Hexachlorocyclopentadiene	ND		4500	610
67-72-1	Hexachloroethane	ND		4500	580
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4500	550
78-59-1	Isophorone	ND		4500	950
621-64-7	N-Nitrosodi-n-propylamine	ND		4500	770
86-30-6	N-Nitrosodiphenylamine	ND		4500	3600
91-20-3	Naphthalene	ND		4500	580
98-95-3	Nitrobenzene	ND		4500	500
87-86-5	Pentachlorophenol	ND		8700	4500
85-01-8	Phenanthrene	800	J	4500	660
108-95-2	Phenol	ND		4500	690
129-00-0	Pyrene	980	J	4500	530

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 0-2" | Lab Sample ID: 480-127239-6

Matrix: Solid | Lab File ID: U328821.D

Analysis Method: 8270D | Date Collected: 11/07/2017 00:00

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.67(g) | Date Analyzed: 11/13/2017 18:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	X	54-120
321-60-8	2-Fluorobiphenyl	35	X	60-120
367-12-4	2-Fluorophenol	24	X	52-120
4165-60-0	Nitrobenzene-d5	26	X	53-120
1718-51-0	p-Terphenyl-d14	36	X	65-121
4165-62-2	Phenol-d5	27	X	54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328821.D
Lims ID: 480-127239-A-6-A
Client ID: NS-DUP-SOIL 0-2"
Sample Type: Client
Inject. Date: 13-Nov-2017 18:22:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 480-0067222-010
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 14-Nov-2017 11:42:47 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: richardsd Date: 14-Nov-2017 11:32:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	96	92842	40.0	
* 2 Naphthalene-d8	136	8.733	8.739	-0.006	99	333895	40.0	
* 3 Acenaphthene-d10	164	10.763	10.769	-0.006	96	170145	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	98	326649	40.0	
* 5 Chrysene-d12	240	14.706	14.711	-0.005	97	472018	40.0	
* 6 Perylene-d12	264	16.485	16.485	0.000	99	545955	40.0	
$ 7 2-Fluorophenol	112	5.661	5.656	0.005	1	1493	0.4805	
$ 8 Phenol-d5	99	6.730	6.730	0.000	1	2091	0.5474	
$ 9 Nitrobenzene-d5	82	7.862	7.862	0.000	85	1871	0.5154	
$ 10 2-Fluorobiphenyl	172	9.983	9.983	0.000	95	4640	0.6994	
$ 11 2,4,6-Tribromophenol	330		11.581				ND	
$ 12 p-Terphenyl-d14	244	13.670	13.669	0.001	1	6192	0.7287	
32 Benzaldehyde	77		6.703				ND	
33 Phenol	94		6.751				ND	
35 Bis(2-chloroethyl)ether	93		6.869				ND	
37 2-Chlorophenol	128		6.981				ND	
43 2-Methylphenol	108		7.467				ND	
44 2,2'-oxybis[1-chloropropan	45		7.504				ND	
46 4-Methylphenol	108		7.638				ND	
47 N-Nitrosodi-n-propylamine	70		7.654				ND	
49 Acetophenone	105		7.675				ND	
53 Hexachloroethane	117		7.846				ND	
54 Nitrobenzene	77		7.884				ND	
56 Isophorone	82		8.156				ND	
59 2-Nitrophenol	139		8.268				ND	
60 2,4-Dimethylphenol	107		8.274				ND	
62 Bis(2-chloroethoxy)methane	93		8.381				ND	
67 2,4-Dichlorophenol	162		8.546				ND	
70 Naphthalene	128		8.760				ND	
72 4-Chloroaniline	127		8.792				ND	
74 Hexachlorobutadiene	225		8.904				ND	
76 Caprolactam	113		9.171				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		9.337				ND	
83 2-Methylnaphthalene	142		9.577				ND	
86 Hexachlorocyclopentadiene	237		9.775				ND	
89 2,4,6-Trichlorophenol	196		9.898				ND	
91 2,4,5-Trichlorophenol	196		9.941				ND	
94 1,1'-Biphenyl	154		10.106				ND	
95 2-Chloronaphthalene	162		10.149				ND	
98 2-Nitroaniline	65		10.234				ND	
102 Dimethyl phthalate	163		10.411				ND	
104 2,6-Dinitrotoluene	165		10.485				ND	
105 Acenaphthylene	152		10.614				ND	
106 3-Nitroaniline	138		10.683				ND	
107 2,4-Dinitrophenol	184		10.790				ND	
108 Acenaphthene	153		10.801				ND	
109 4-Nitrophenol	109		10.833				ND	
111 2,4-Dinitrotoluene	165		10.929				ND	
112 Dibenzofuran	168		10.982				ND	
118 Diethyl phthalate	149		11.153				ND	
121 4-Chlorophenyl phenyl ethe	204		11.308				ND	
122 4-Nitroaniline	138		11.324				ND	
123 Fluorene	166		11.335				ND	
125 4,6-Dinitro-2-methylphenol	198		11.356				ND	
127 N-Nitrosodiphenylamine	169		11.420				ND	
137 4-Bromophenyl phenyl ether	248		11.800				ND	
139 Hexachlorobenzene	284		11.901				ND	
141 Atrazine	200		11.912				ND	
143 Pentachlorophenol	266		12.072				ND	
150 Phenanthrene	178	12.281	12.286	-0.005	94	8526	0.9048	
151 Anthracene	178		12.329				ND	
152 Carbazole	167		12.457				ND	
155 Di-n-butyl phthalate	149		12.708				ND	
162 Fluoranthene	202	13.370	13.376	-0.006	96	14120	1.31	
165 Pyrene	202	13.589	13.589	0.000	97	11777	1.11	
172 Butyl benzyl phthalate	149		14.059				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.551				ND	
179 3,3'-Dichlorobenzidine	252		14.615				ND	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	94	9878	0.7289	
182 Chrysene	228	14.733	14.738	-0.005	93	10038	0.7678	
183 Di-n-octyl phthalate	149		15.208				ND	
185 Benzo[b]fluoranthene	252	15.940	15.940	0.000	94	12200	0.7621	
187 Benzo[k]fluoranthene	252	15.967	15.977	-0.010	1	7943	0.4837	M
190 Benzo[a]pyrene	252	16.405	16.410	-0.005	75	10425	0.6698	
193 Dibenz(a,h)anthracene	278		18.306				ND	
194 Indeno[1,2,3-cd]pyrene	276	18.312	18.317	-0.005	95	7689	0.4426	
195 Benzo[g,h,i]perylene	276	18.884	18.894	-0.010	94	7401	0.5391	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

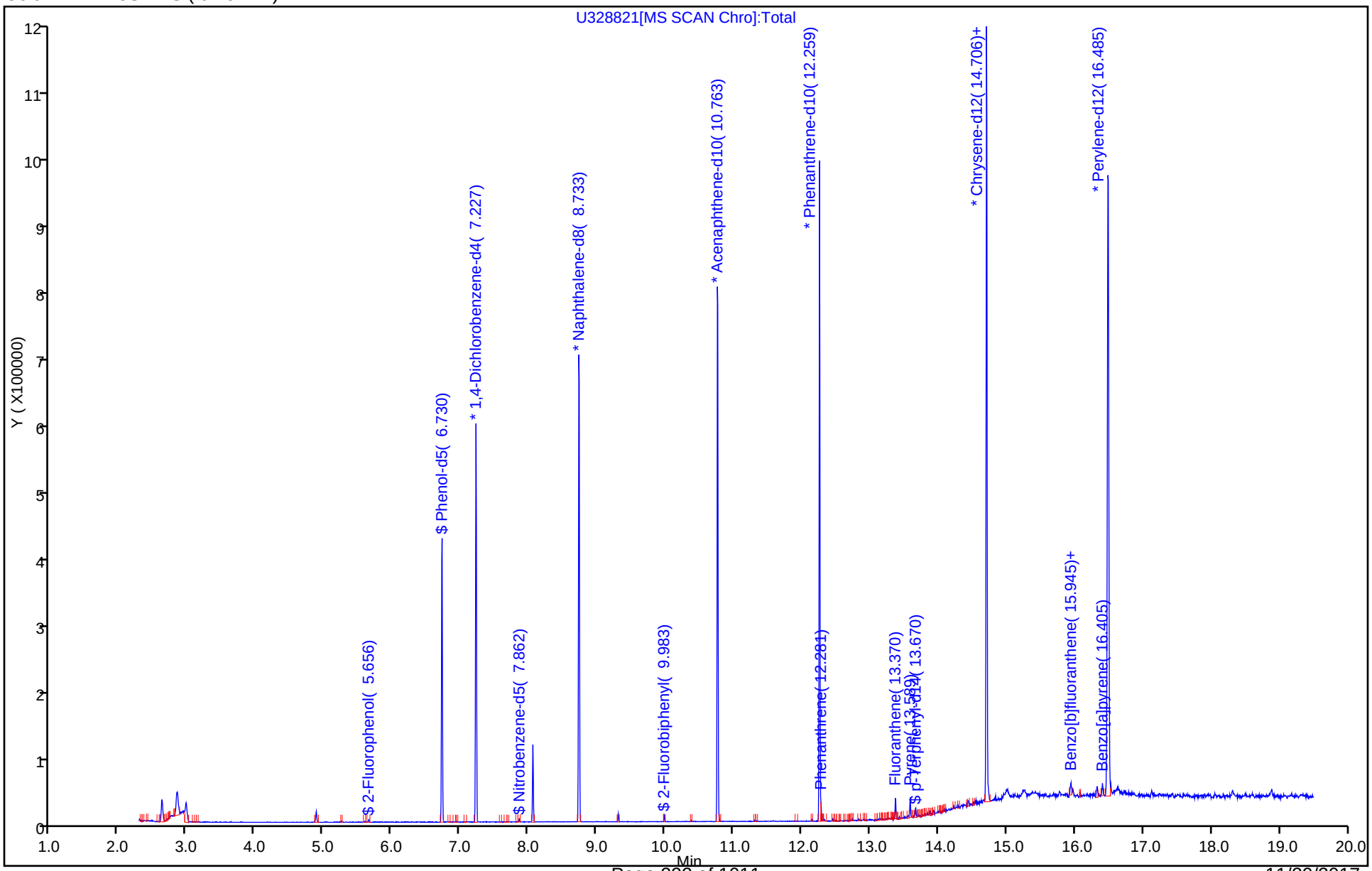
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TestAmerica Buffalo

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Injection Date:	13-Nov-2017 18:22:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-127239-A-6-A	Lab Sample ID:	480-127239-6	Worklist Smp#:	10
Client ID:	NS-DUP-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	10
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

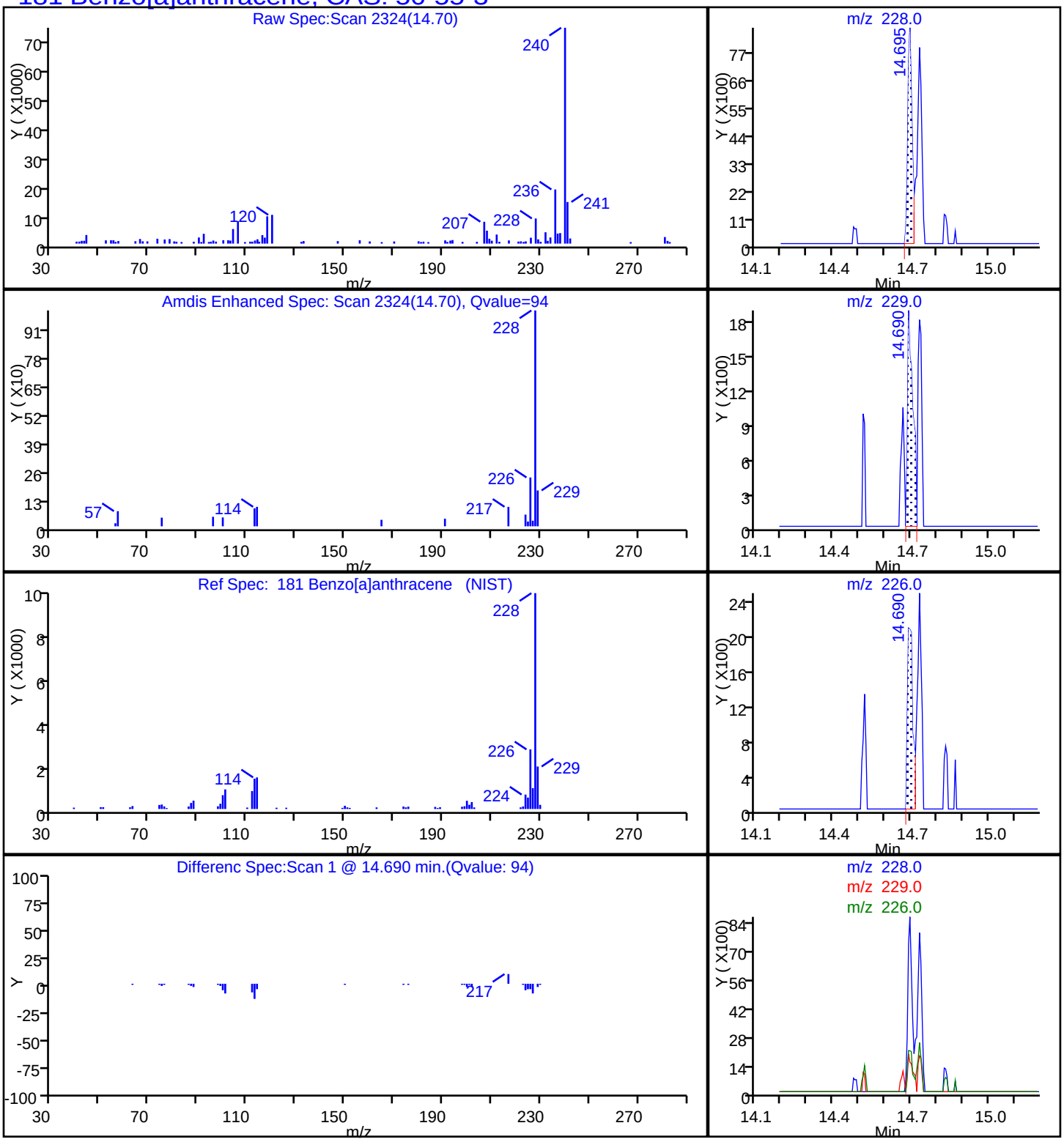
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TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328821.D				
Injection Date:	13-Nov-2017 18:22:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-6-A	Lab Sample ID:	480-127239-6		
Client ID:	NS-DUP-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

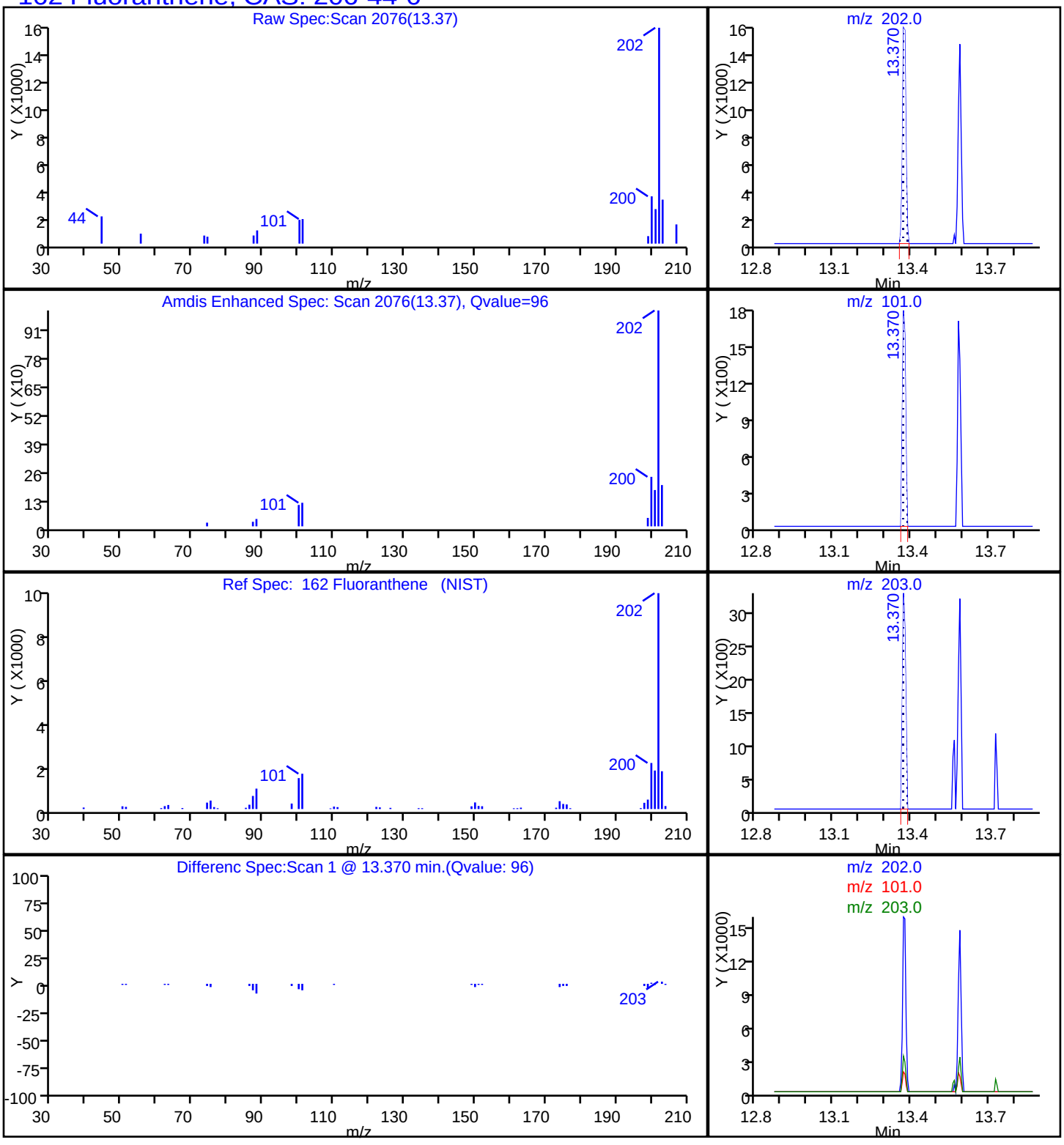
181 Benzo[a]anthracene, CAS: 56-55-3



Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328821.D

Injection Date:	13-Nov-2017 18:22:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-6-A	Lab Sample ID:	480-127239-6		
Client ID:	NS-DUP-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

162 Fluoranthene, CAS: 206-44-0

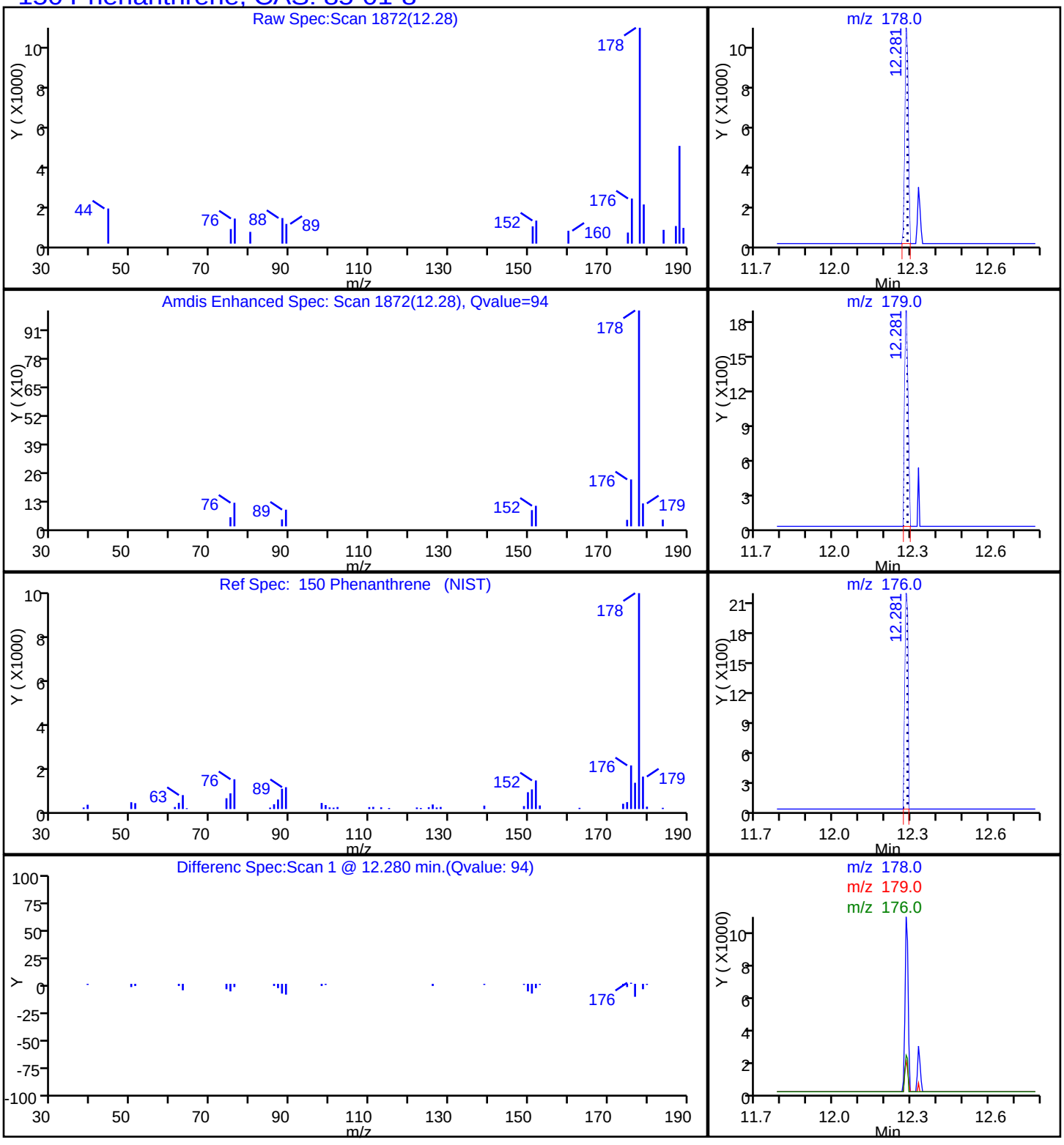


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328821.D

Injection Date:	13-Nov-2017 18:22:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-6-A	Lab Sample ID:	480-127239-6		
Client ID:	NS-DUP-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

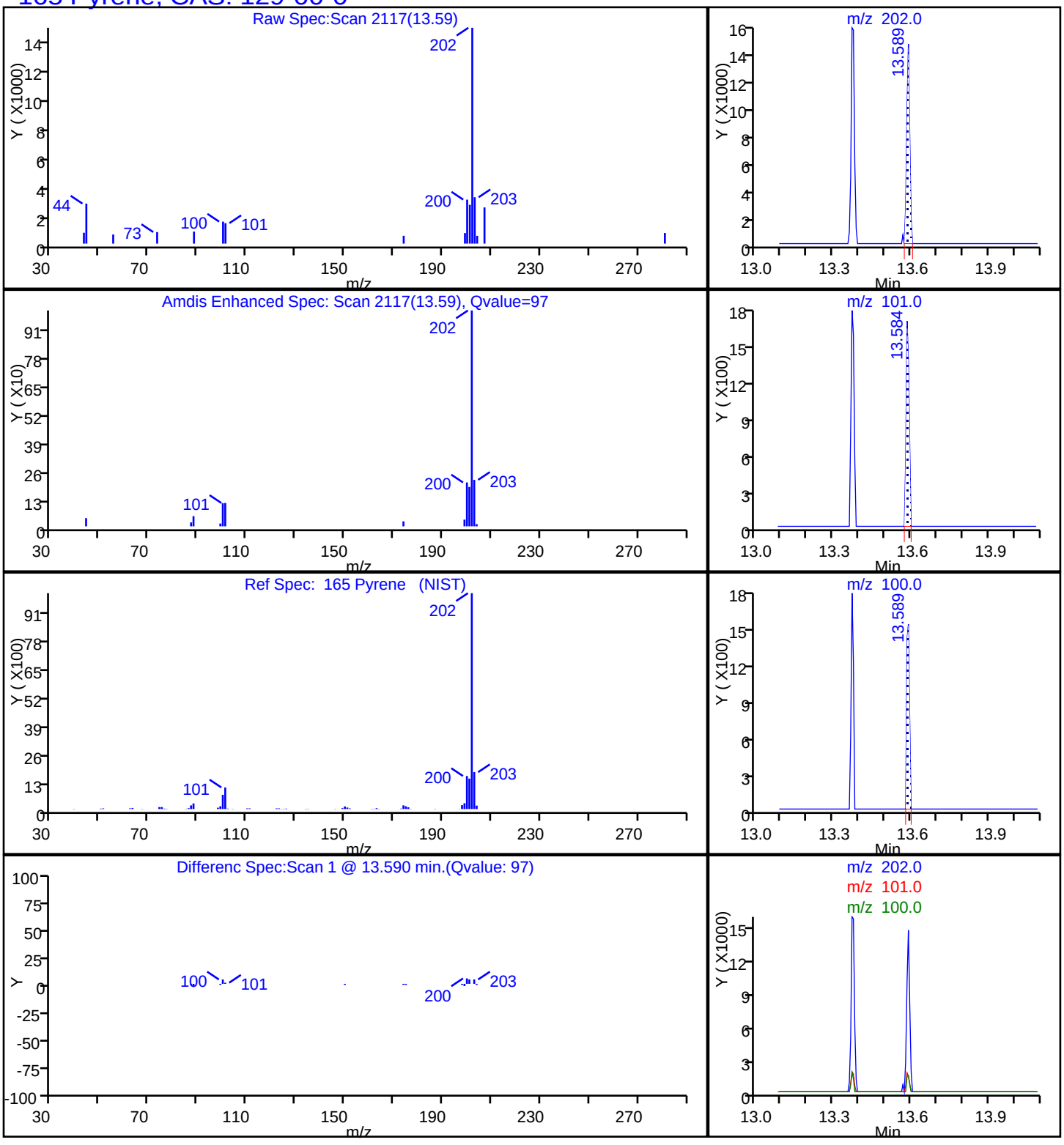
150 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328821.D				
Injection Date:	13-Nov-2017 18:22:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-6-A	Lab Sample ID:	480-127239-6		
Client ID:	NS-DUP-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

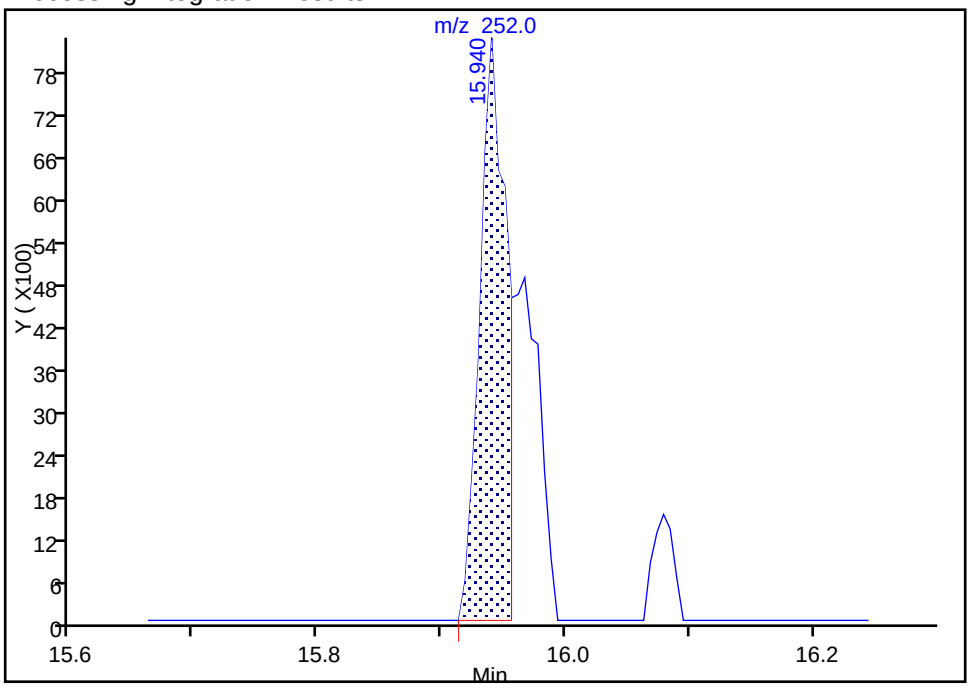
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Injection Date:	13-Nov-2017 18:22:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-6-A	Lab Sample ID:	480-127239-6		
Client ID:	NS-DUP-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

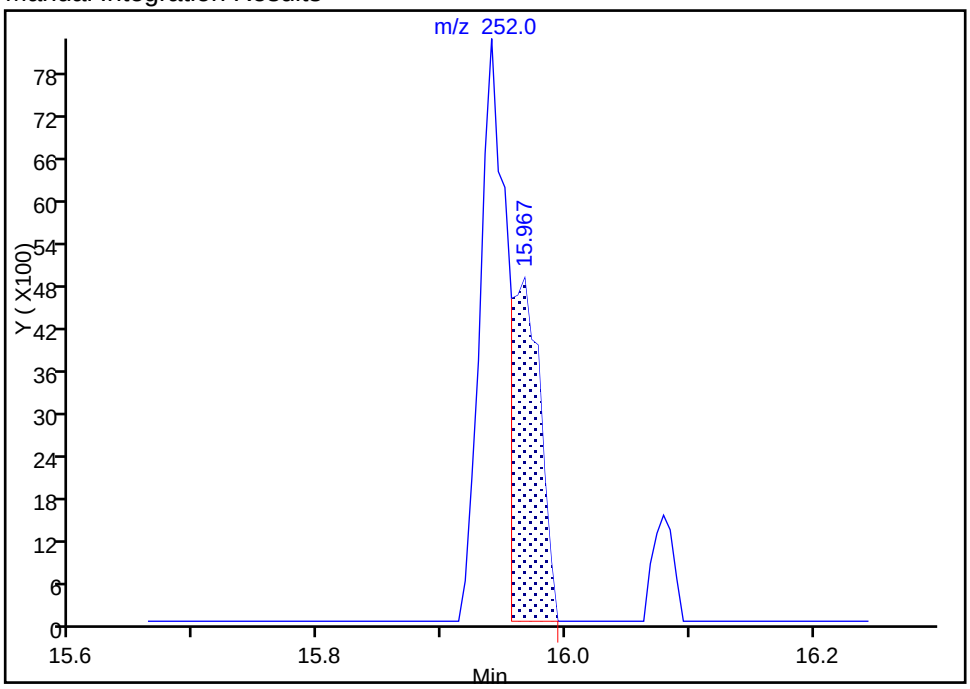
Processing Integration Results

RT: 15.94
Area: 12200
Amount: 0.742928
Amount Units: ng/uL



Manual Integration Results

RT: 15.97
Area: 7943
Amount: 0.483695
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:32:11

Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

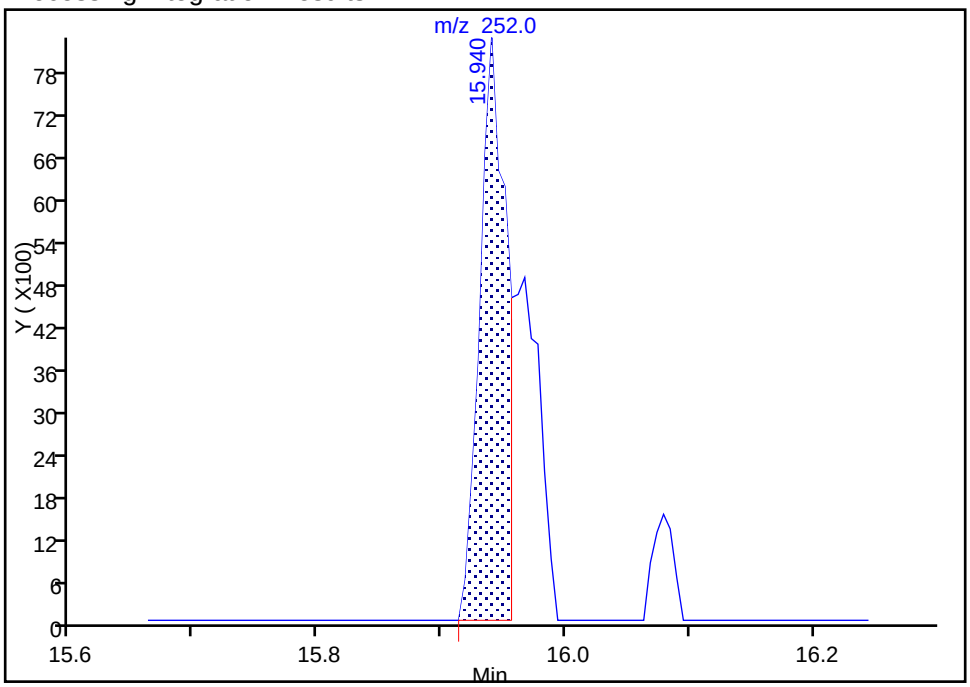
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Injection Date:	13-Nov-2017 18:22:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-6-A	Lab Sample ID:	480-127239-6		
Client ID:	NS-DUP-SOIL 0-2"				
Operator ID:	DR	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

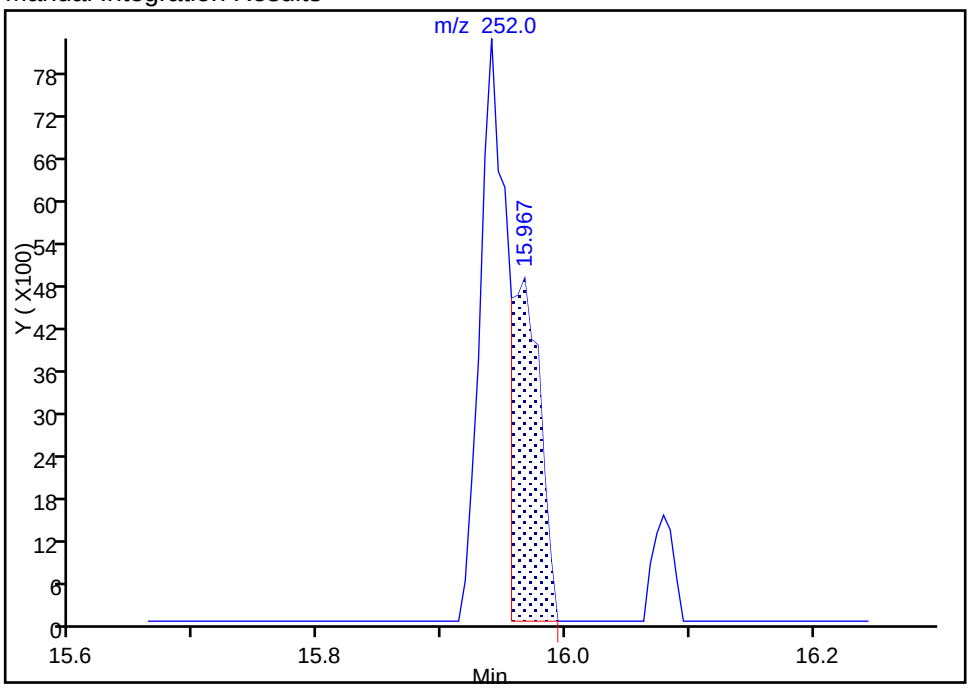
Processing Integration Results

RT: 15.94
Area: 12200
Amount: 0.742928
Amount Units: ng/uL



Manual Integration Results

RT: 15.97
Area: 7943
Amount: 0.483695
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:32:24

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 2-12" | Lab Sample ID: 480-127239-7

Matrix: Solid | Lab File ID: U328822.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.75(g) | Date Analyzed: 11/13/2017 18:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 28.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4600	680
108-60-1	bis (2-chloroisopropyl) ether	ND		4600	930
95-95-4	2,4,5-Trichlorophenol	ND		4600	1300
88-06-2	2,4,6-Trichlorophenol	ND		4600	930
120-83-2	2,4-Dichlorophenol	ND		4600	490
105-67-9	2,4-Dimethylphenol	ND		4600	1100
51-28-5	2,4-Dinitrophenol	ND		45000	21000
121-14-2	2,4-Dinitrotoluene	ND		4600	960
606-20-2	2,6-Dinitrotoluene	ND		4600	550
91-58-7	2-Chloronaphthalene	ND		4600	770
95-57-8	2-Chlorophenol	ND		4600	850
91-57-6	2-Methylnaphthalene	ND		4600	930
95-48-7	2-Methylphenol	ND		4600	550
88-74-4	2-Nitroaniline	ND		9000	680
88-75-5	2-Nitrophenol	ND		4600	1300
91-94-1	3,3'-Dichlorobenzidine	ND		9000	5500
99-09-2	3-Nitroaniline	ND		9000	1300
534-52-1	4,6-Dinitro-2-methylphenol	ND		9000	4600
101-55-3	4-Bromophenyl phenyl ether	ND		4600	660
59-50-7	4-Chloro-3-methylphenol	ND		4600	1100
106-47-8	4-Chloroaniline	ND		4600	1100
7005-72-3	4-Chlorophenyl phenyl ether	ND		4600	570
106-44-5	4-Methylphenol	ND		9000	550
100-01-6	4-Nitroaniline	ND		9000	2400
100-02-7	4-Nitrophenol	ND		9000	3300
83-32-9	Acenaphthene	6400		4600	680
208-96-8	Acenaphthylene	ND		4600	600
98-86-2	Acetophenone	ND		4600	630
120-12-7	Anthracene	9600		4600	1100
1912-24-9	Atrazine	ND		4600	1600
100-52-7	Benzaldehyde	ND		4600	3700
56-55-3	Benzo(a)anthracene	19000		4600	460
50-32-8	Benzo(a)pyrene	17000		4600	680
205-99-2	Benzo(b)fluoranthene	19000		4600	740

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 2-12" | Lab Sample ID: 480-127239-7

Matrix: Solid | Lab File ID: U328822.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.75(g) | Date Analyzed: 11/13/2017 18:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 28.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	15000		4600	490
207-08-9	Benzo(k)fluoranthene	10000		4600	600
111-91-1	Bis(2-chloroethoxy)methane	ND		4600	980
111-44-4	Bis(2-chloroethyl)ether	ND		4600	600
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4600	1600
85-68-7	Butyl benzyl phthalate	ND		4600	770
105-60-2	Caprolactam	ND		4600	1400
86-74-8	Carbazole	5200		4600	550
218-01-9	Chrysene	18000		4600	1000
84-74-2	Di-n-butyl phthalate	890	J	4600	790
117-84-0	Di-n-octyl phthalate	ND		4600	550
53-70-3	Dibenz(a,h)anthracene	ND		4600	820
132-64-9	Dibenzofuran	2900	J	4600	550
84-66-2	Diethyl phthalate	ND		4600	600
131-11-3	Dimethyl phthalate	ND		4600	550
206-44-0	Fluoranthene	47000		4600	490
86-73-7	Fluorene	4700		4600	550
118-74-1	Hexachlorobenzene	ND		4600	630
87-68-3	Hexachlorobutadiene	ND		4600	680
77-47-4	Hexachlorocyclopentadiene	ND		4600	630
67-72-1	Hexachloroethane	ND		4600	600
193-39-5	Indeno(1,2,3-cd)pyrene	12000		4600	570
78-59-1	Isophorone	ND		4600	980
621-64-7	N-Nitrosodi-n-propylamine	ND		4600	790
86-30-6	N-Nitrosodiphenylamine	ND		4600	3800
91-20-3	Naphthalene	1700	J	4600	600
98-95-3	Nitrobenzene	ND		4600	520
87-86-5	Pentachlorophenol	ND		9000	4600
85-01-8	Phenanthrene	43000		4600	680
108-95-2	Phenol	ND		4600	710
129-00-0	Pyrene	41000		4600	550

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 2-12" | Lab Sample ID: 480-127239-7

Matrix: Solid | Lab File ID: U328822.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:10

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.75(g) | Date Analyzed: 11/13/2017 18:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 28.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	X	54-120
321-60-8	2-Fluorobiphenyl	31	X	60-120
367-12-4	2-Fluorophenol	22	X	52-120
4165-60-0	Nitrobenzene-d5	20	X	53-120
1718-51-0	p-Terphenyl-d14	31	X	65-121
4165-62-2	Phenol-d5	23	X	54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D
Lims ID: 480-127239-A-7-A
Client ID: NS-NORTH-SOIL 2-12"
Sample Type: Client
Inject. Date: 13-Nov-2017 18:49:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 480-0067222-011
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 14-Nov-2017 11:42:47 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: richardsd Date: 14-Nov-2017 11:35:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	96	94318	40.0	
* 2 Naphthalene-d8	136	8.733	8.739	-0.006	99	333807	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	0.000	97	168680	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	97	321252	40.0	
* 5 Chrysene-d12	240	14.711	14.711	0.000	96	450128	40.0	
* 6 Perylene-d12	264	16.490	16.485	0.005	99	557477	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	1	1375	0.4356	
$ 8 Phenol-d5	99	6.730	6.730	0.000	1	1788	0.4608	
$ 9 Nitrobenzene-d5	82	7.862	7.862	0.000	86	1463	0.4031	
$ 10 2-Fluorobiphenyl	172	9.989	9.983	0.006	94	4070	0.6188	
$ 11 2,4,6-Tribromophenol	330		11.581				ND	
$ 12 p-Terphenyl-d14	244	13.670	13.669	0.001	1	5091	0.6283	
32 Benzaldehyde	77		6.703				ND	
33 Phenol	94		6.751				ND	
35 Bis(2-chloroethyl)ether	93		6.869				ND	
37 2-Chlorophenol	128		6.981				ND	
43 2-Methylphenol	108		7.467				ND	
44 2,2'-oxybis[1-chloropropan	45		7.504				ND	
46 4-Methylphenol	108		7.638				ND	
47 N-Nitrosodi-n-propylamine	70		7.654				ND	
49 Acetophenone	105		7.675				ND	
53 Hexachloroethane	117		7.846				ND	
54 Nitrobenzene	77		7.884				ND	
56 Isophorone	82		8.156				ND	
59 2-Nitrophenol	139		8.268				ND	
60 2,4-Dimethylphenol	107		8.274				ND	
62 Bis(2-chloroethoxy)methane	93		8.381				ND	
67 2,4-Dichlorophenol	162		8.546				ND	
70 Naphthalene	128	8.760	8.760	0.000	96	15119	1.81	
72 4-Chloroaniline	127		8.792				ND	
74 Hexachlorobutadiene	225		8.904				ND	
76 Caprolactam	113		9.171				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		9.337				ND	
83 2-Methylnaphthalene	142	9.577	9.577	0.000	88	3456	0.6078	
86 Hexachlorocyclopentadiene	237		9.775				ND	
89 2,4,6-Trichlorophenol	196		9.898				ND	
91 2,4,5-Trichlorophenol	196		9.941				ND	
94 1,1'-Biphenyl	154		10.106				ND	
95 2-Chloronaphthalene	162		10.149				ND	
98 2-Nitroaniline	65		10.234				ND	
102 Dimethyl phthalate	163		10.411				ND	
104 2,6-Dinitrotoluene	165		10.485				ND	
105 Acenaphthylene	152		10.614				ND	
106 3-Nitroaniline	138		10.683				ND	
107 2,4-Dinitrophenol	184		10.790				ND	
108 Acenaphthene	153	10.801	10.801	0.000	94	38274	7.00	
109 4-Nitrophenol	109		10.833				ND	
111 2,4-Dinitrotoluene	165		10.929				ND	
112 Dibenzofuran	168	10.982	10.982	0.000	96	24591	3.13	
118 Diethyl phthalate	149		11.153				ND	
121 4-Chlorophenyl phenyl ethe	204		11.308				ND	
122 4-Nitroaniline	138		11.324				ND	
123 Fluorene	166	11.335	11.335	0.000	95	32972	5.13	
125 4,6-Dinitro-2-methylphenol	198		11.356				ND	
127 N-Nitrosodiphenylamine	169		11.420				ND	
137 4-Bromophenyl phenyl ether	248		11.800				ND	
139 Hexachlorobenzene	284		11.901				ND	
141 Atrazine	200		11.912				ND	
143 Pentachlorophenol	266		12.072				ND	
150 Phenanthrene	178	12.286	12.286	0.000	96	433087	46.7	
151 Anthracene	178	12.329	12.329	0.001	95	100492	10.5	
152 Carbazole	167	12.457	12.457	0.000	96	48215	5.69	
155 Di-n-butyl phthalate	149	12.708	12.708	0.000	99	9344	0.9743	
162 Fluoranthene	202	13.376	13.376	0.000	98	548460	51.6	
165 Pyrene	202	13.589	13.589	0.000	98	447954	44.5	
172 Butyl benzyl phthalate	149		14.059				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.551				ND	
179 3,3'-Dichlorobenzidine	252		14.615				ND	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	96	262643	20.3	
182 Chrysene	228	14.738	14.738	0.000	96	253075	20.3	
183 Di-n-octyl phthalate	149		15.208				ND	
185 Benzo[b]fluoranthene	252	15.945	15.940	0.005	96	339111	20.7	M
187 Benzo[k]fluoranthene	252	15.961	15.977	-0.016	97	188745	11.3	M
190 Benzo[a]pyrene	252	16.410	16.410	0.000	75	290858	18.3	
193 Dibenz(a,h)anthracene	278		18.306				ND	
194 Indeno[1,2,3-cd]pyrene	276	18.317	18.317	0.000	97	236782	13.3	
195 Benzo[g,h,i]perylene	276	18.889	18.894	-0.005	98	223177	15.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

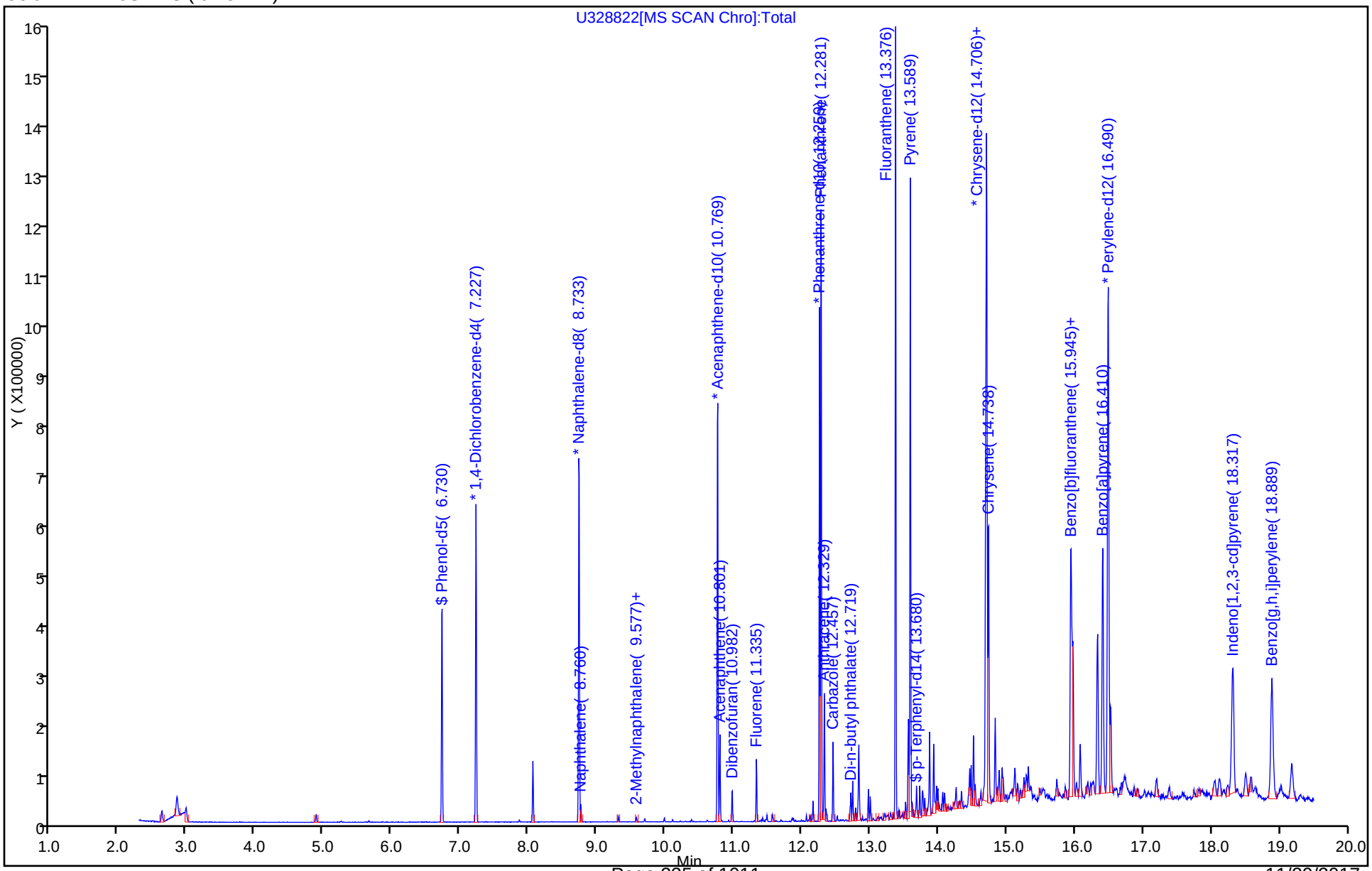
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D

Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7	Worklist Smp#:	11
Client ID:	NS-NORTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	11
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)

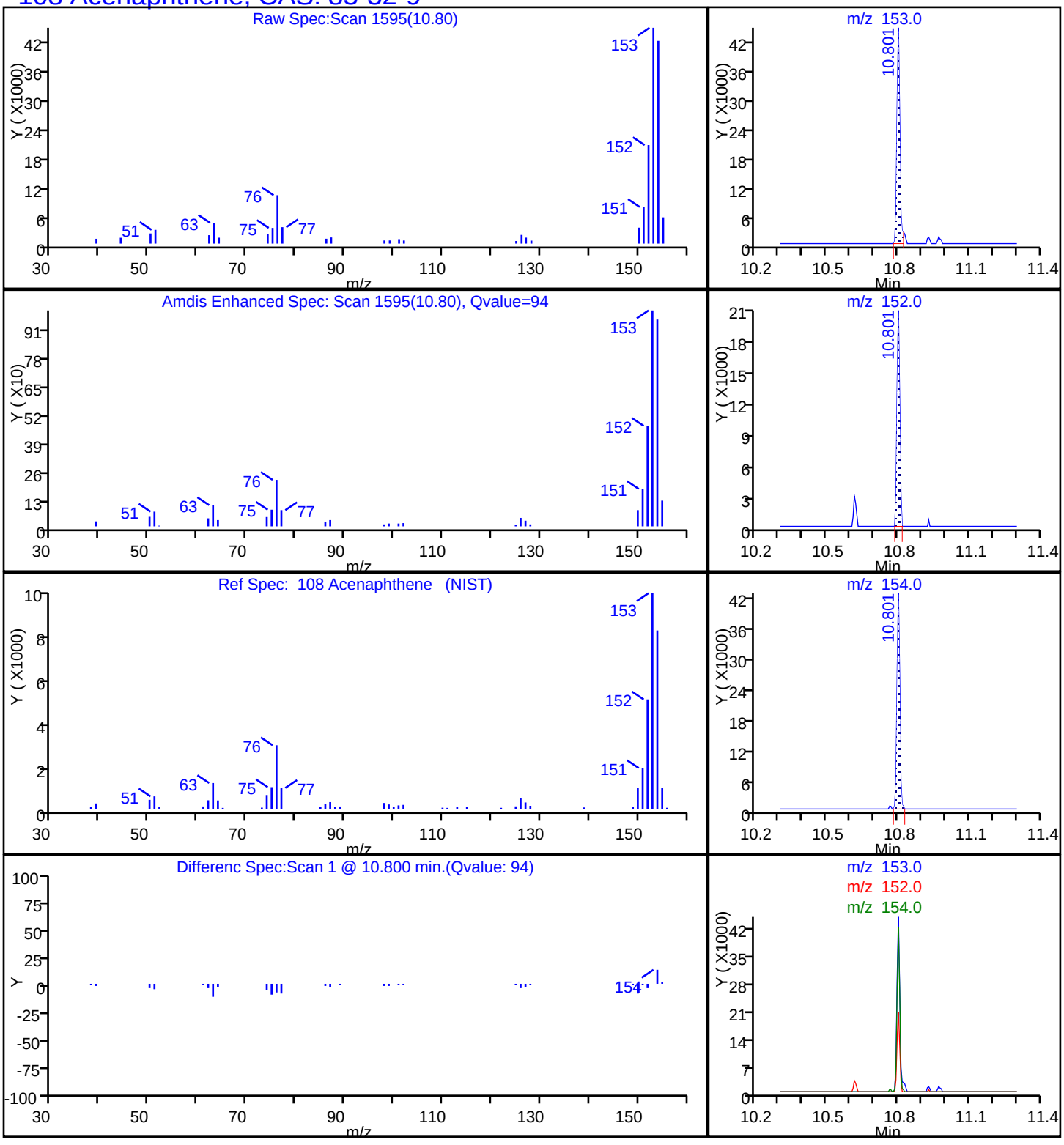


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D

Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7
Client ID:	NS-NORTH-SOIL 2-12"		
Operator ID:	DR	ALS Bottle#:	11 Worklist Smp#: 11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

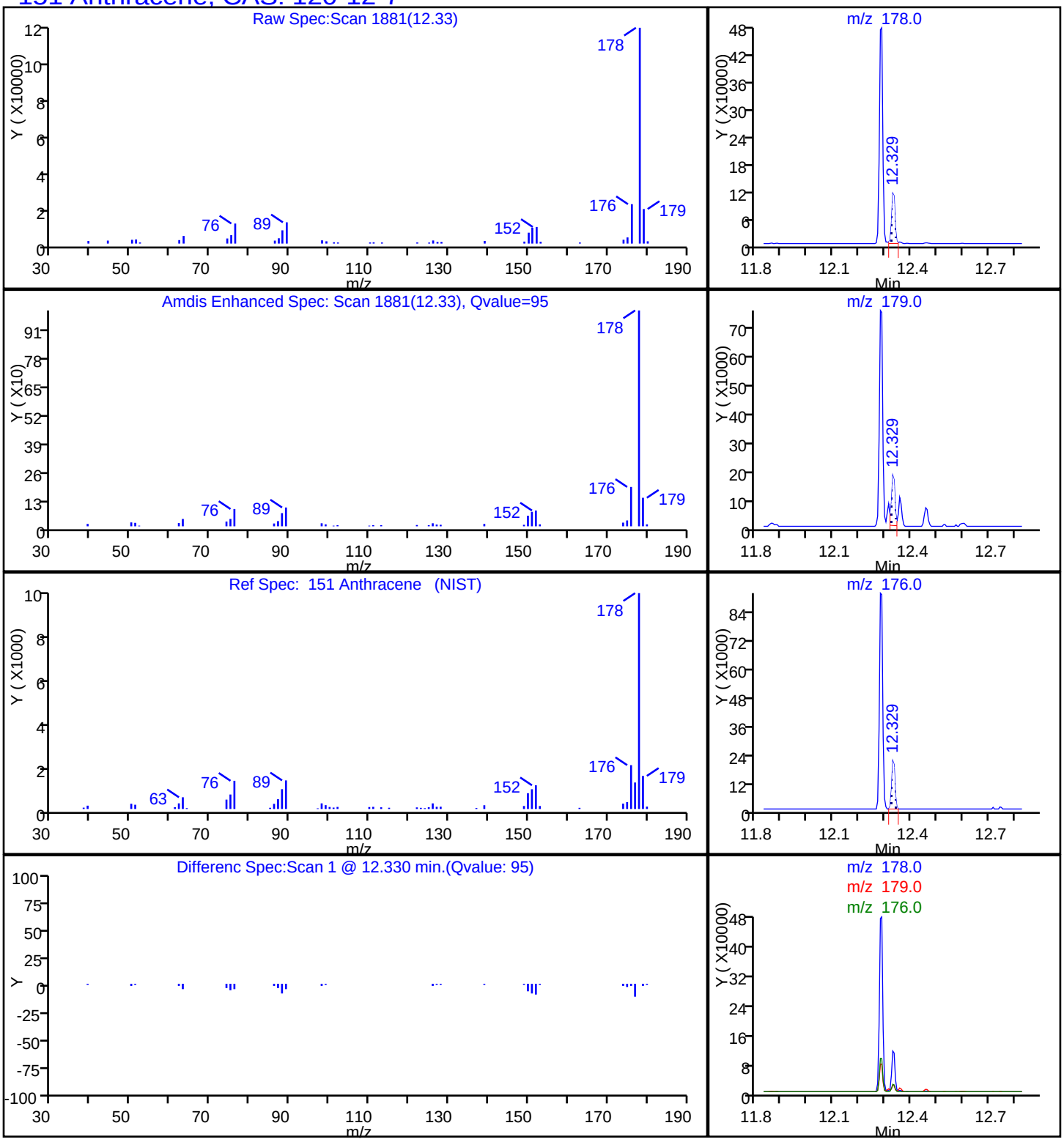
108 Acenaphthene, CAS: 83-32-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

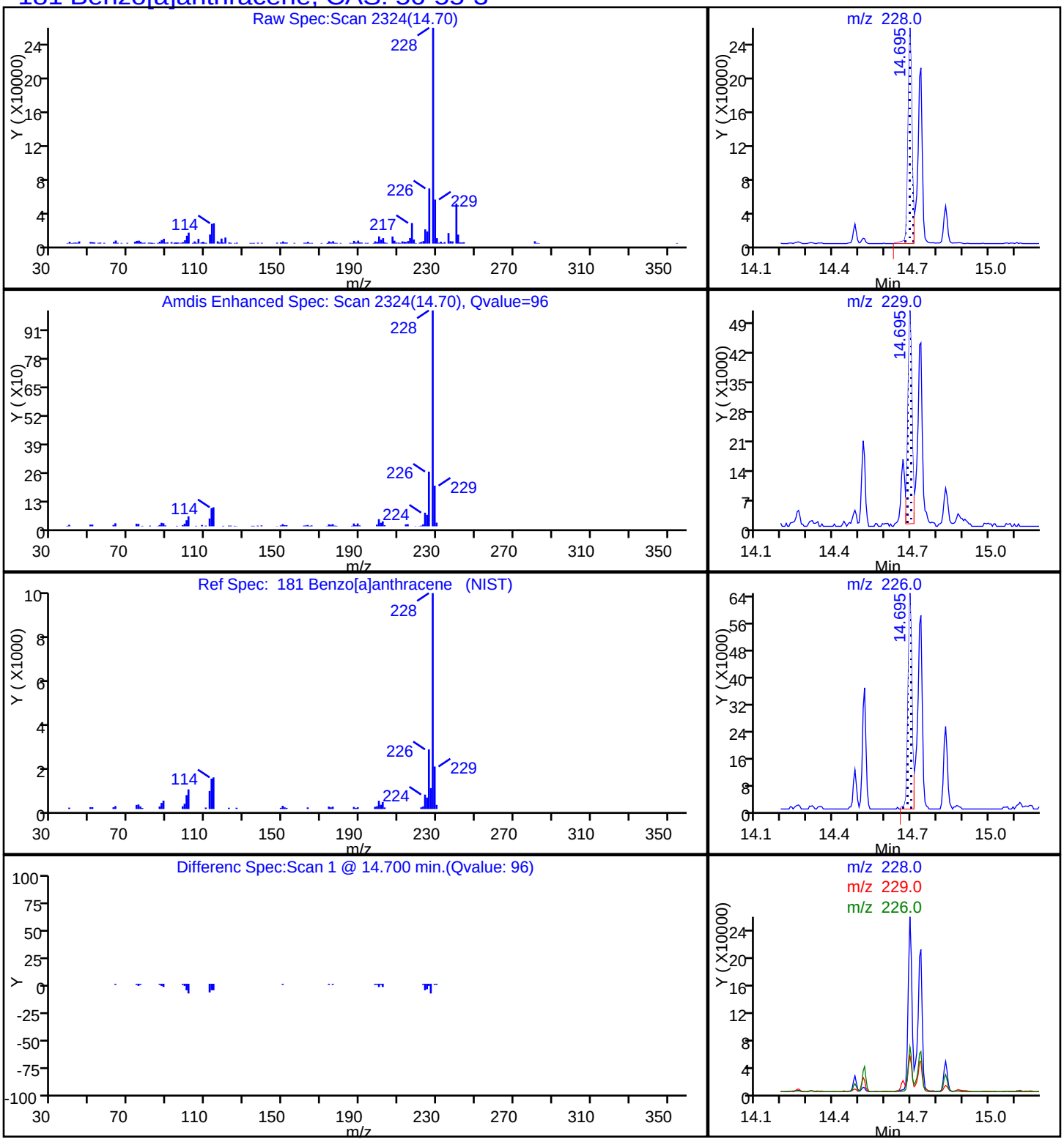
151 Anthracene, CAS: 120-12-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

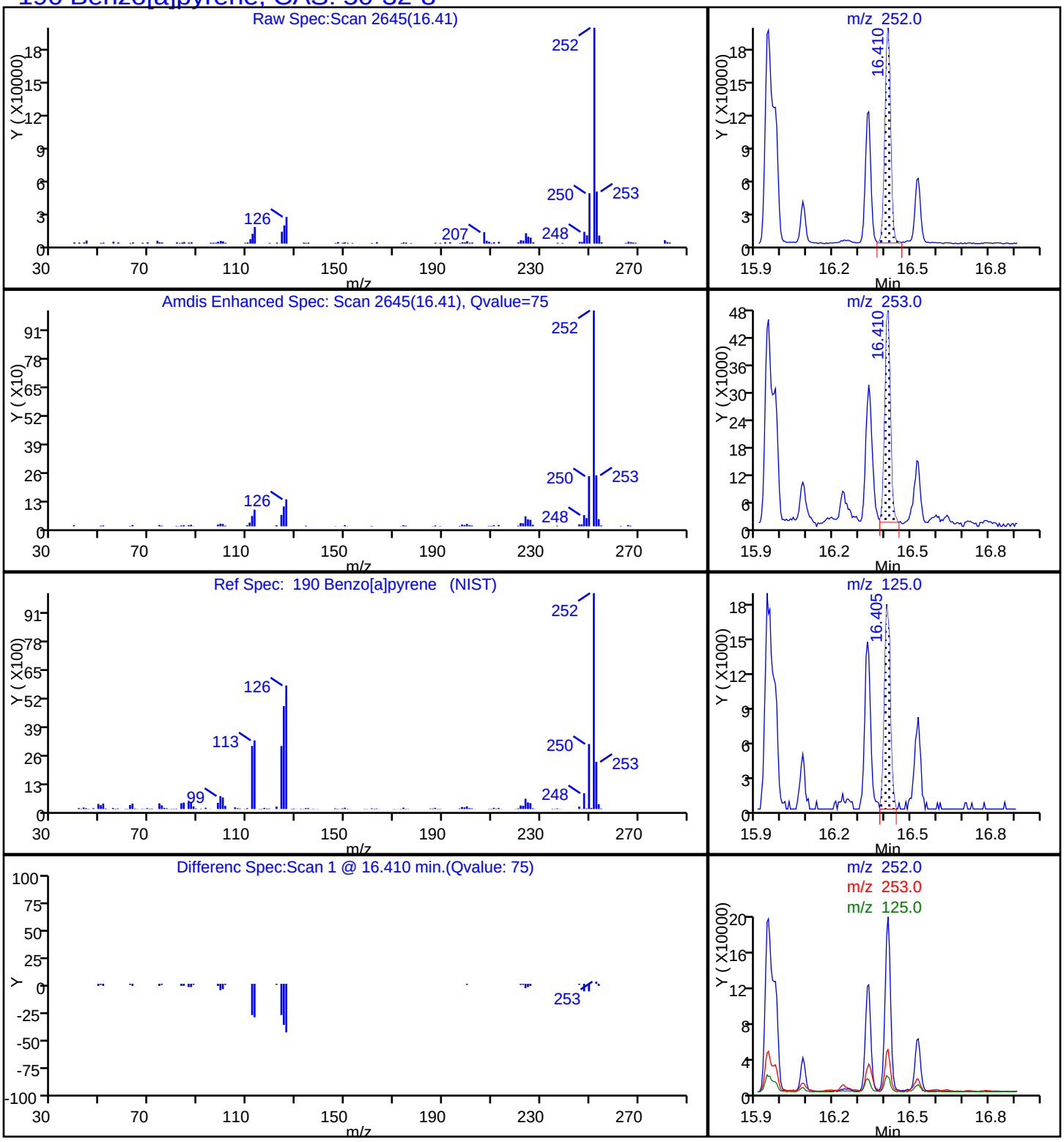
181 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

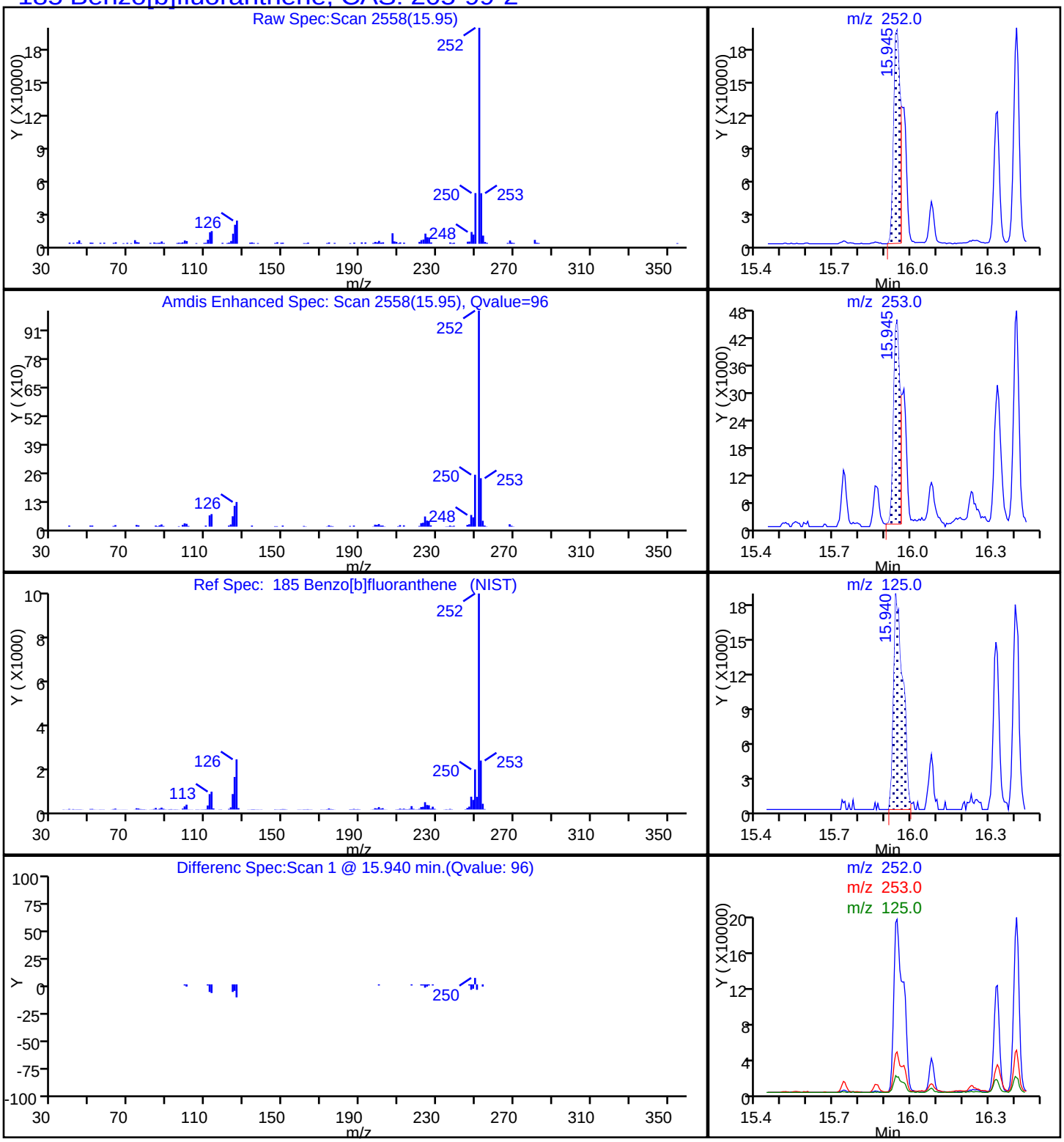
190 Benzo[a]pyrene, CAS: 50-32-8



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Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

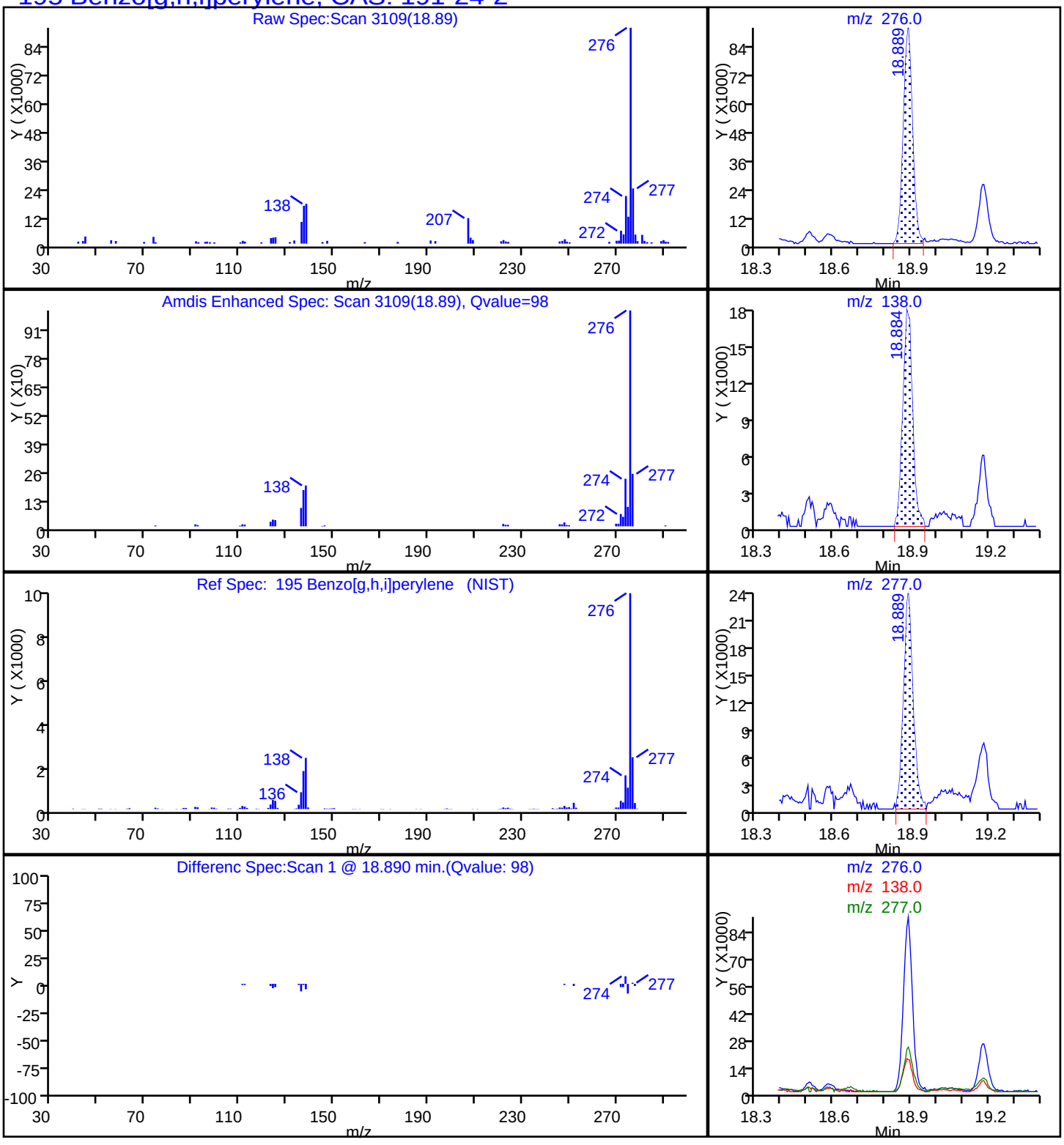
185 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



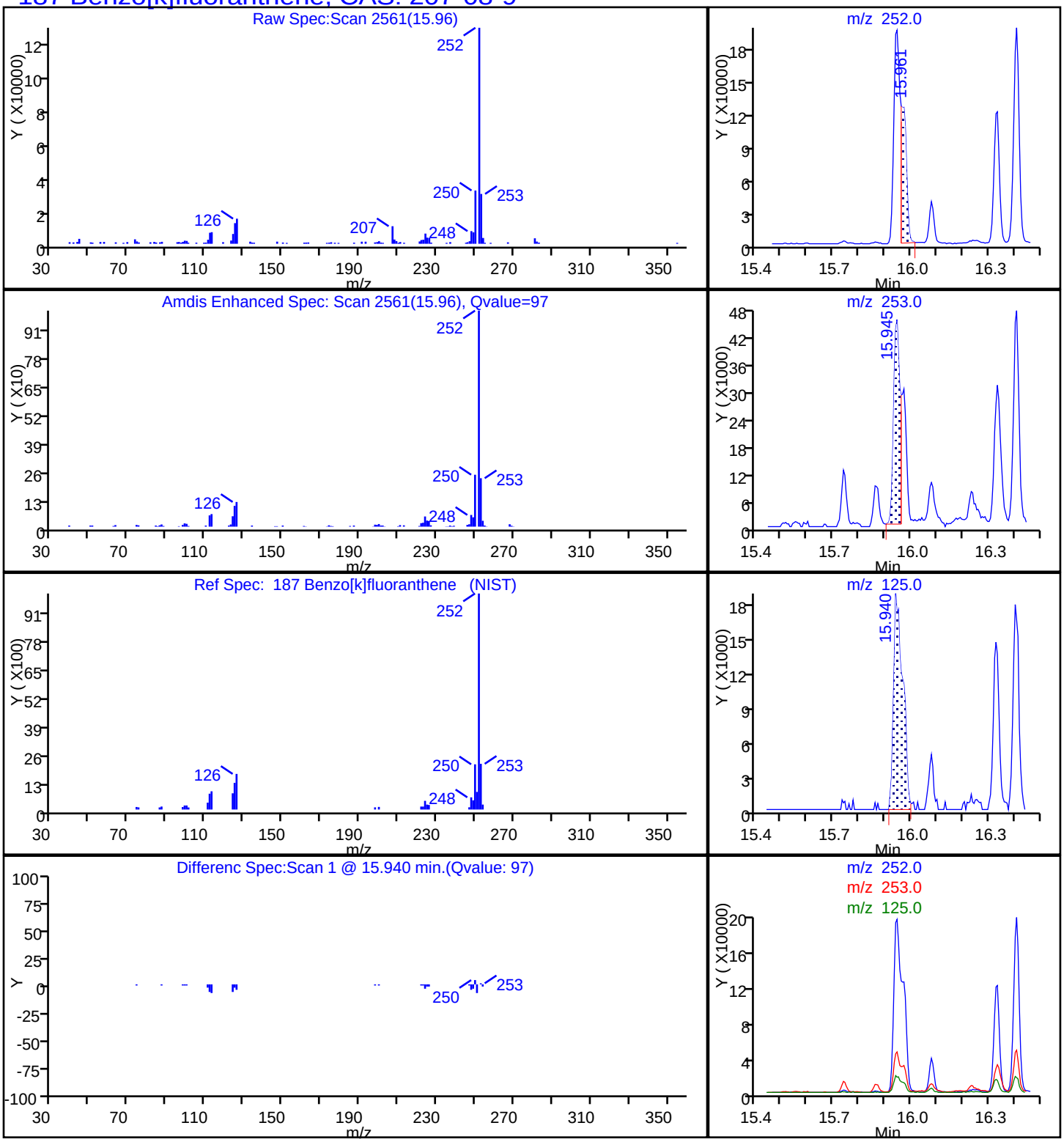
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TestAmerica Buffalo

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Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
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Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

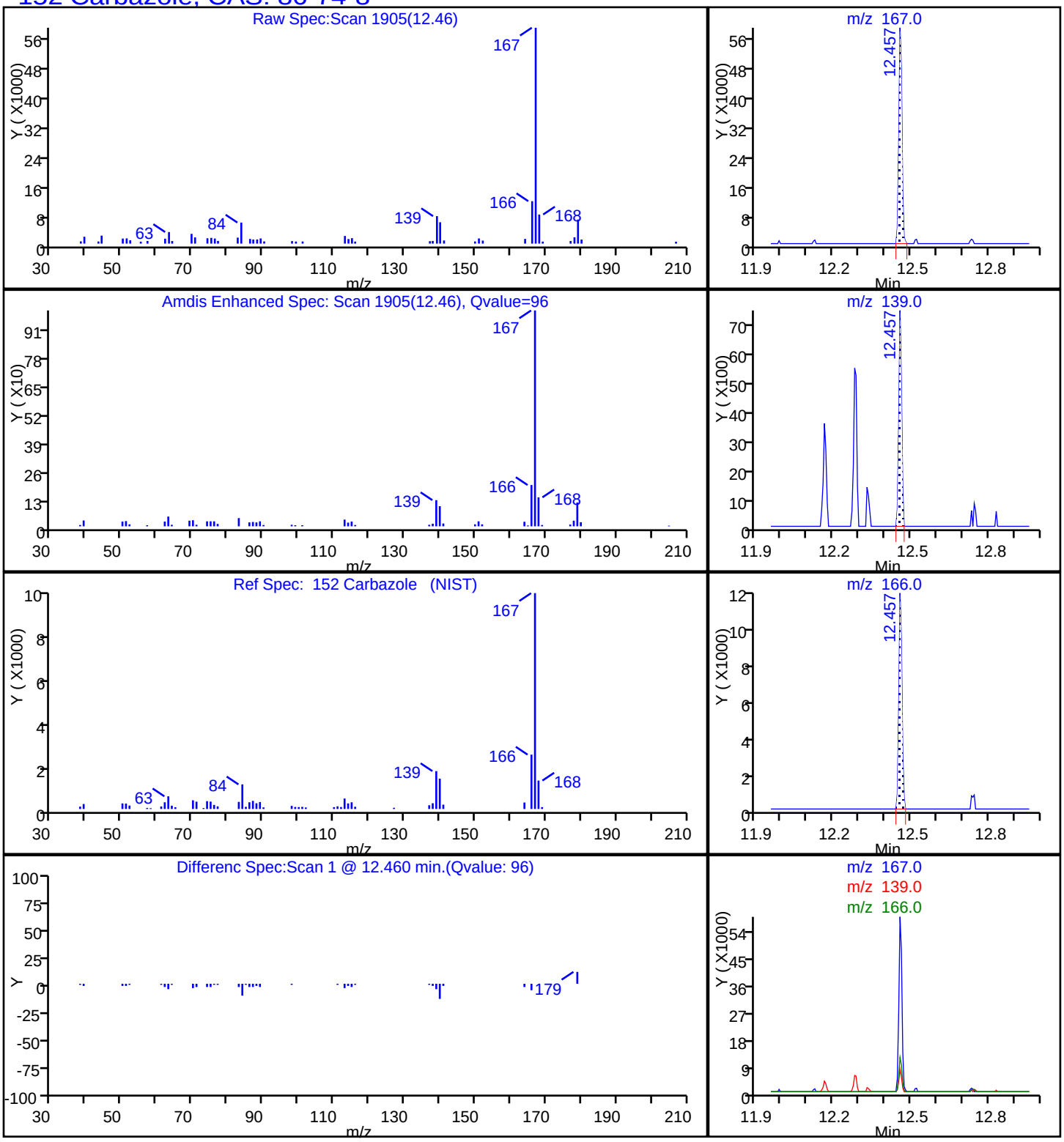
187 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

152 Carbazole, CAS: 86-74-8



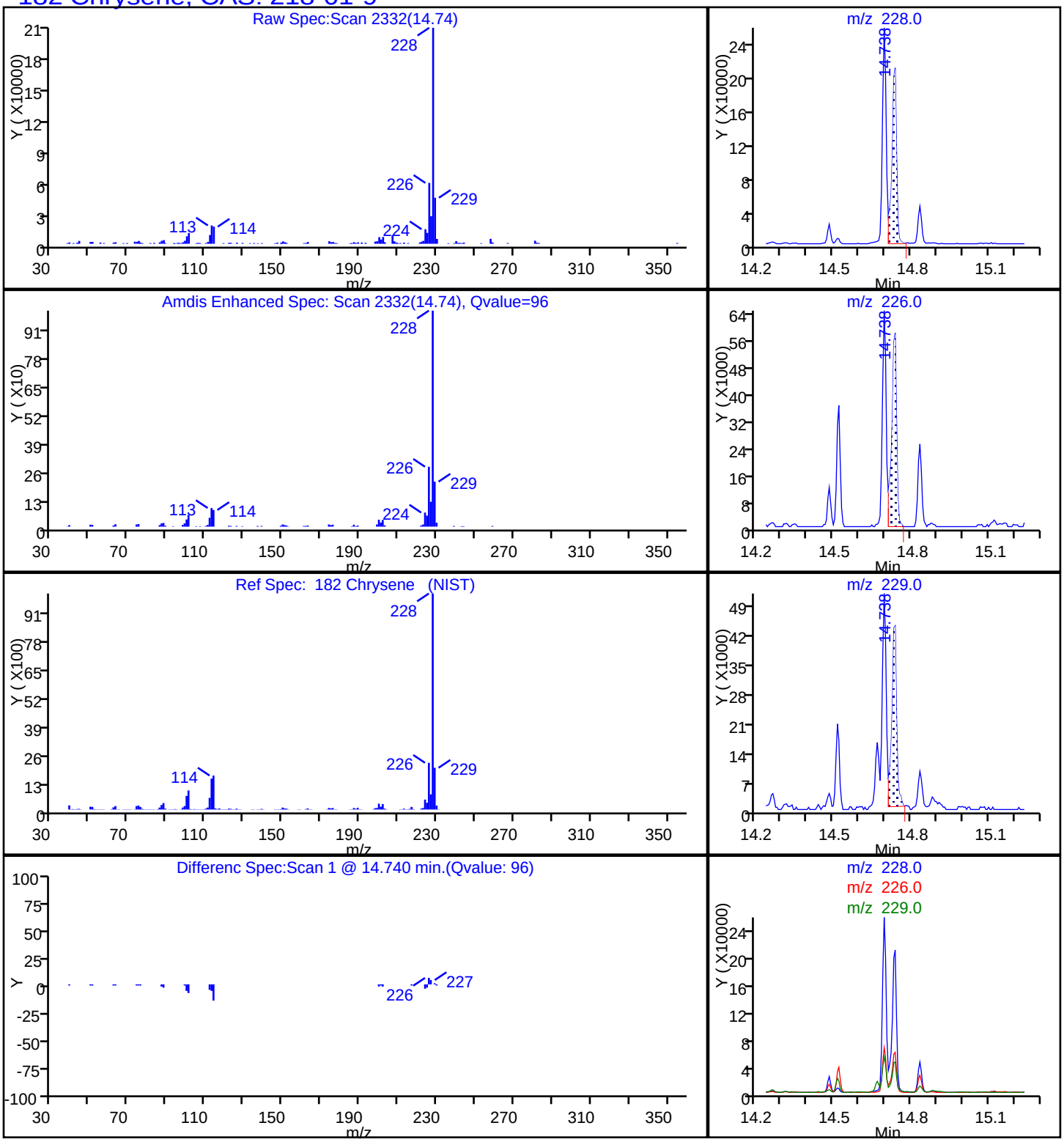
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TestAmerica Buffalo

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Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

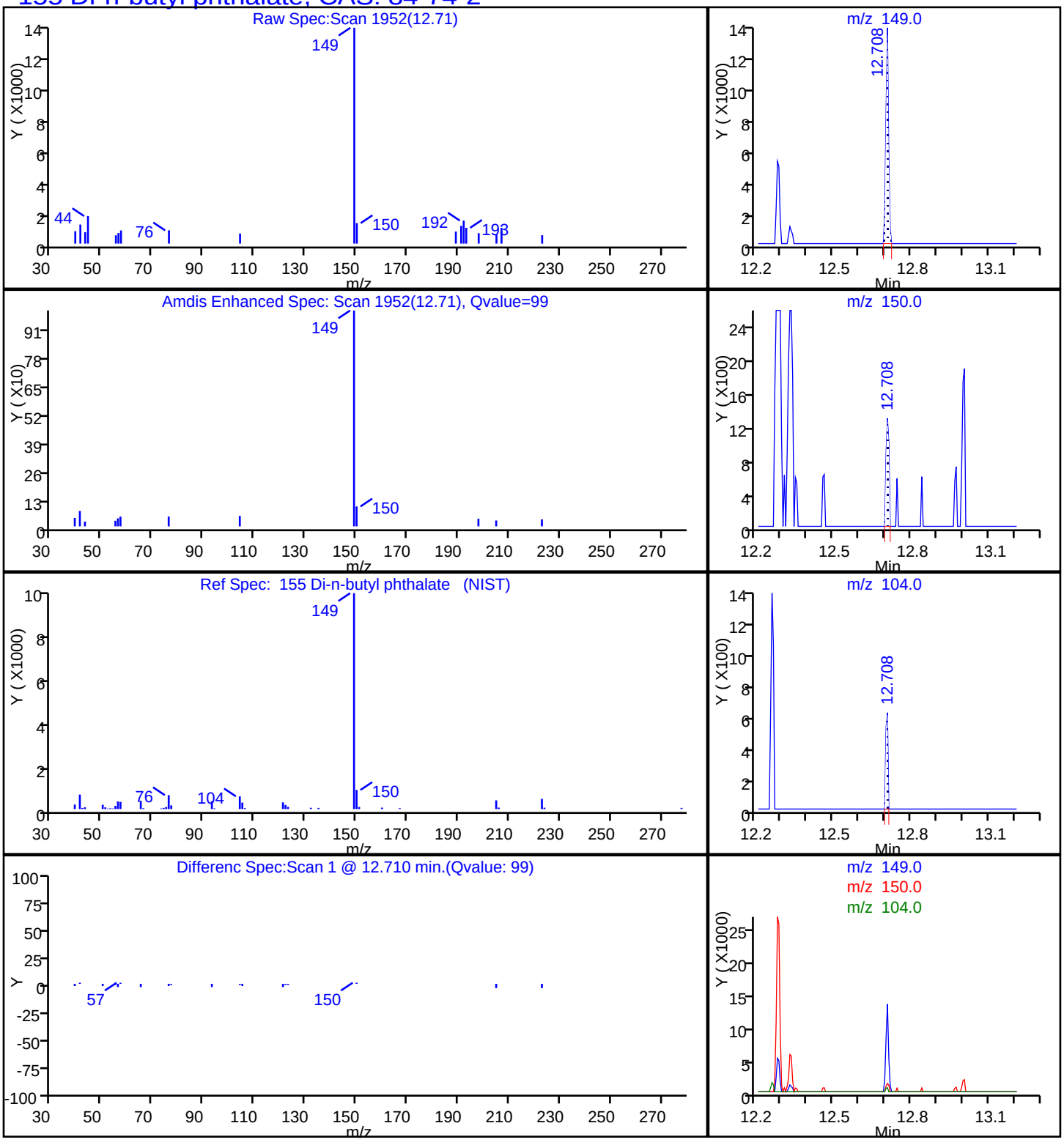
182 Chrysene, CAS: 218-01-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

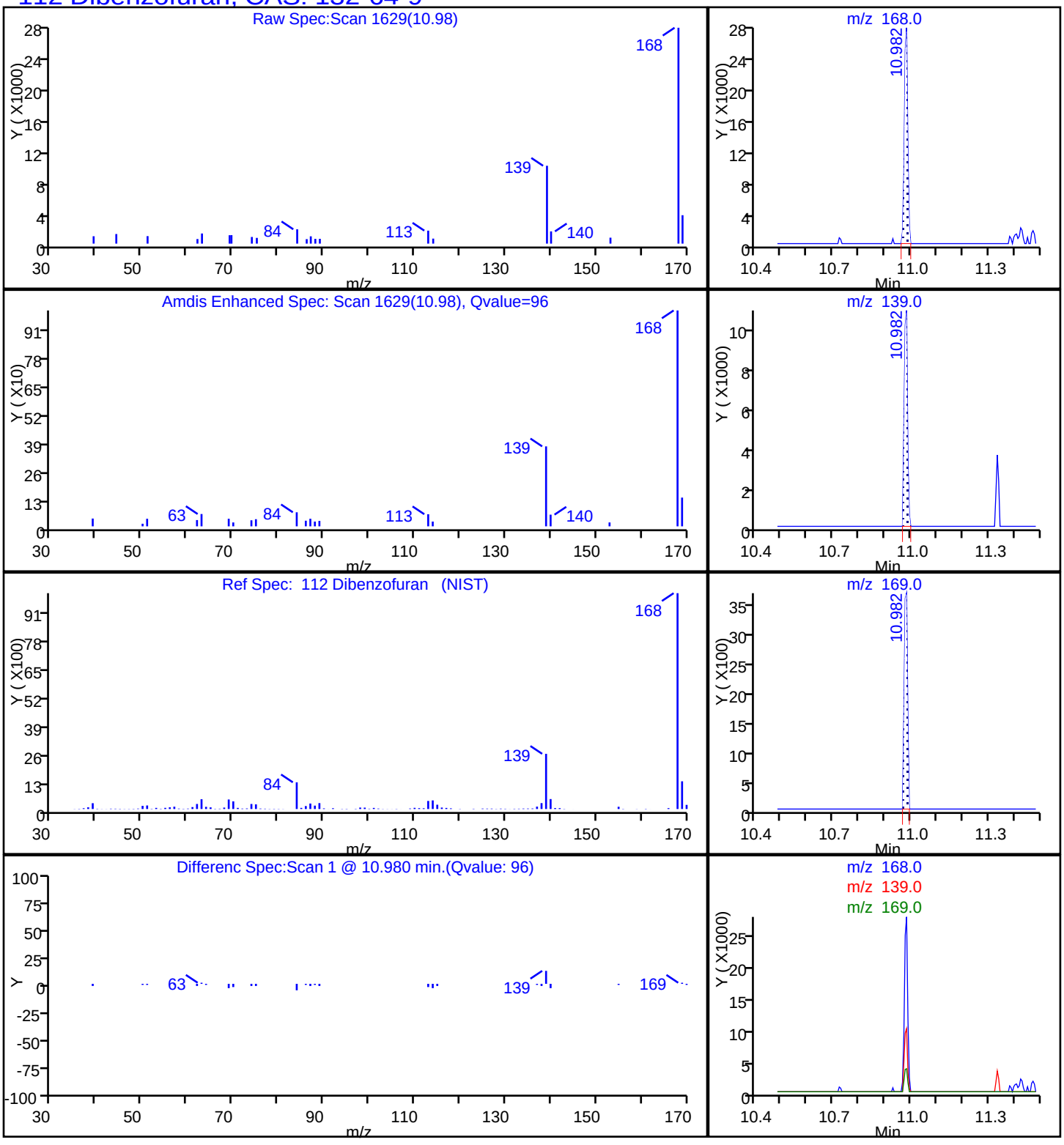
155 Di-n-butyl phthalate, CAS: 84-74-2



Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D

Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7
Client ID:	NS-NORTH-SOIL 2-12"		
Operator ID:	DR	ALS Bottle#:	11 Worklist Smp#: 11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

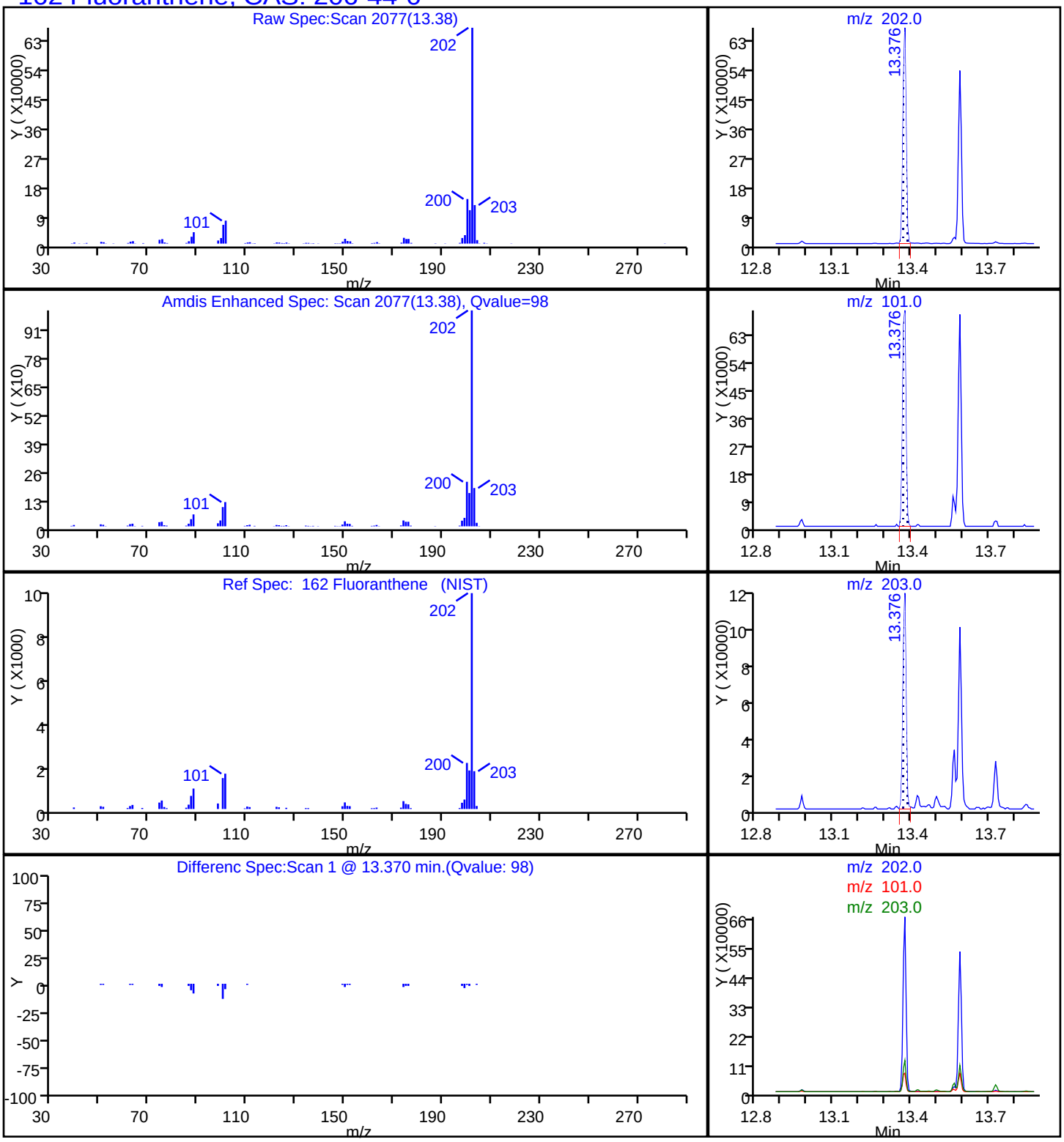
112 Dibenzofuran, CAS: 132-64-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

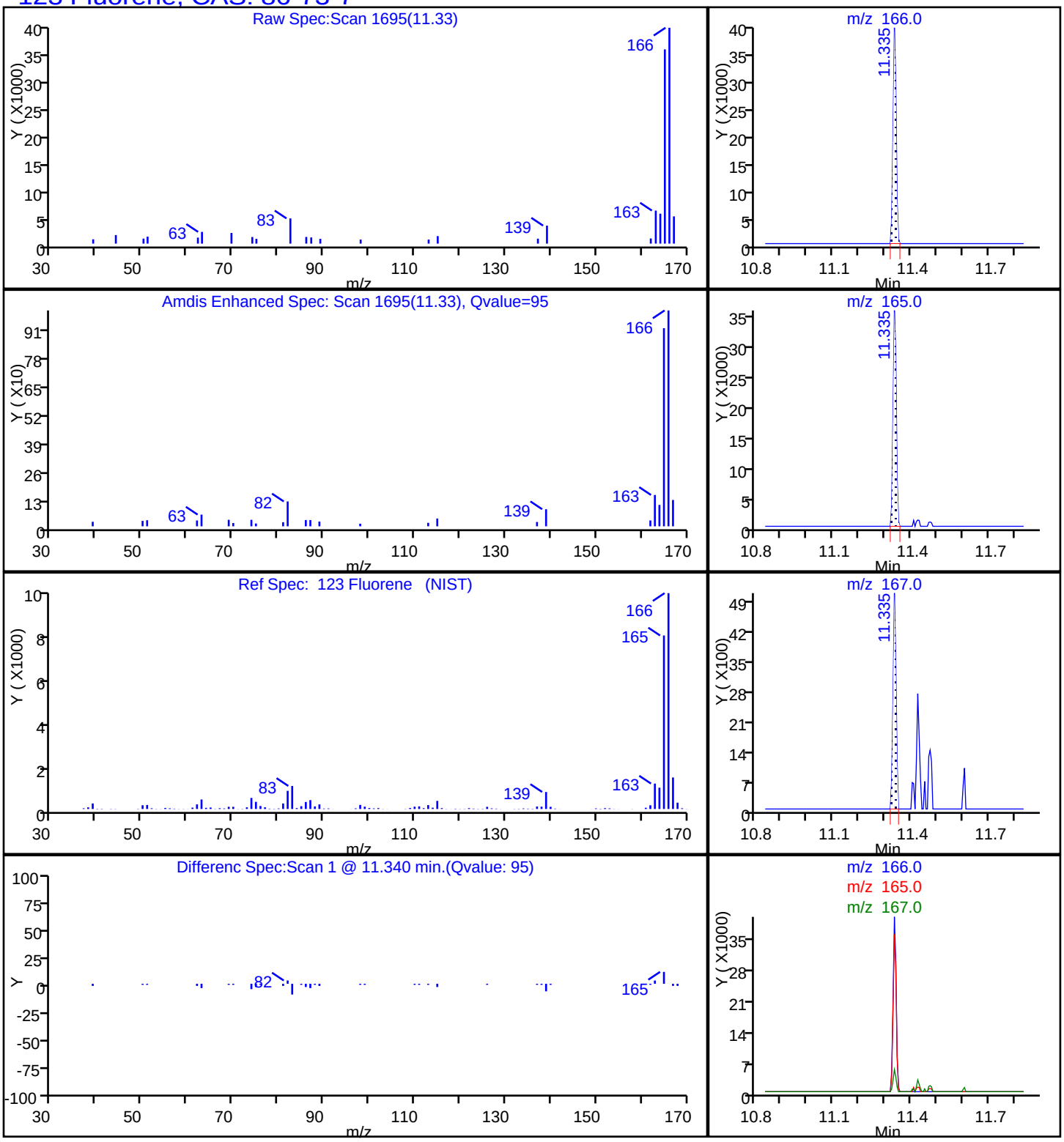
162 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
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Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

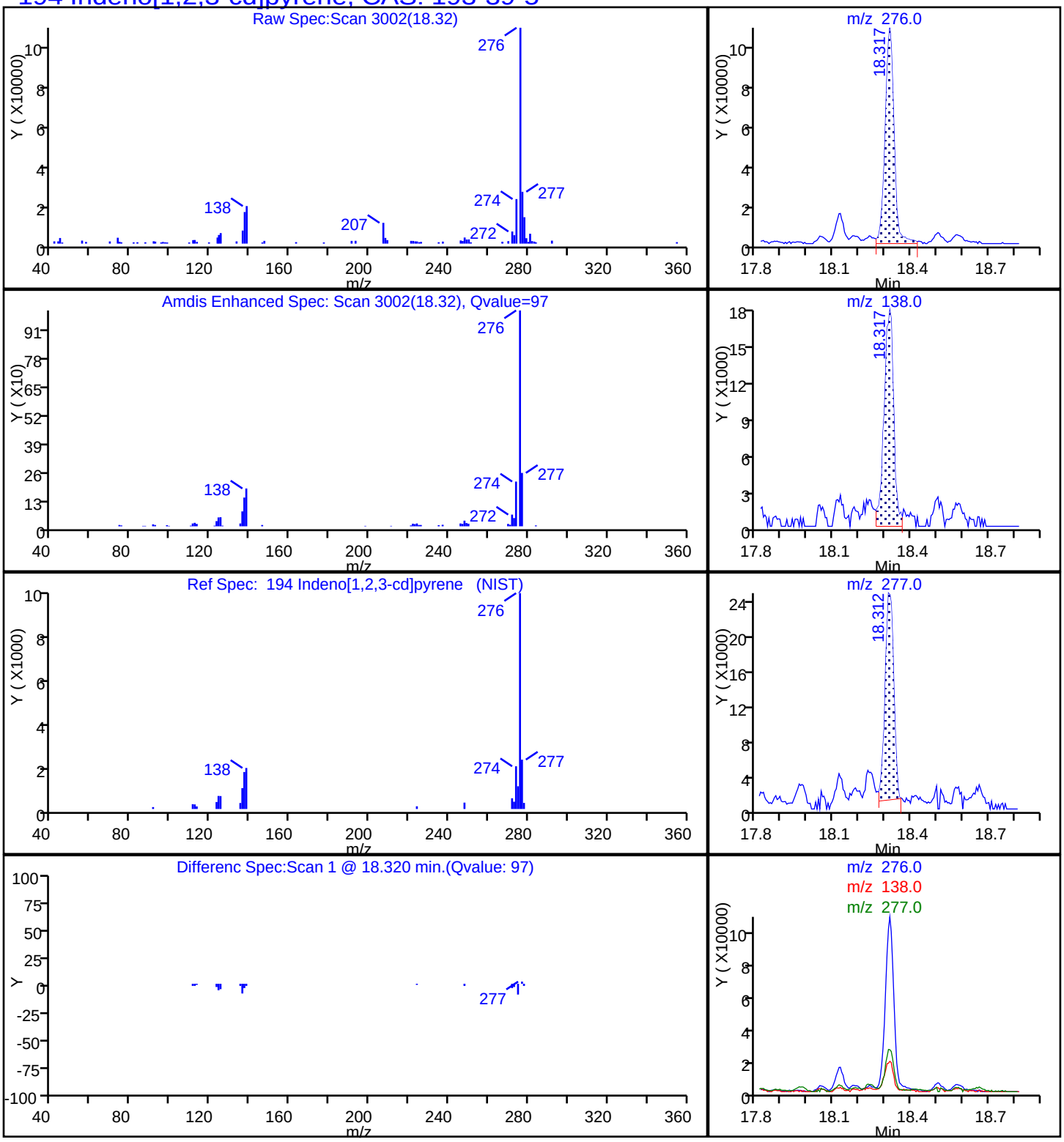
123 Fluorene, CAS: 86-73-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

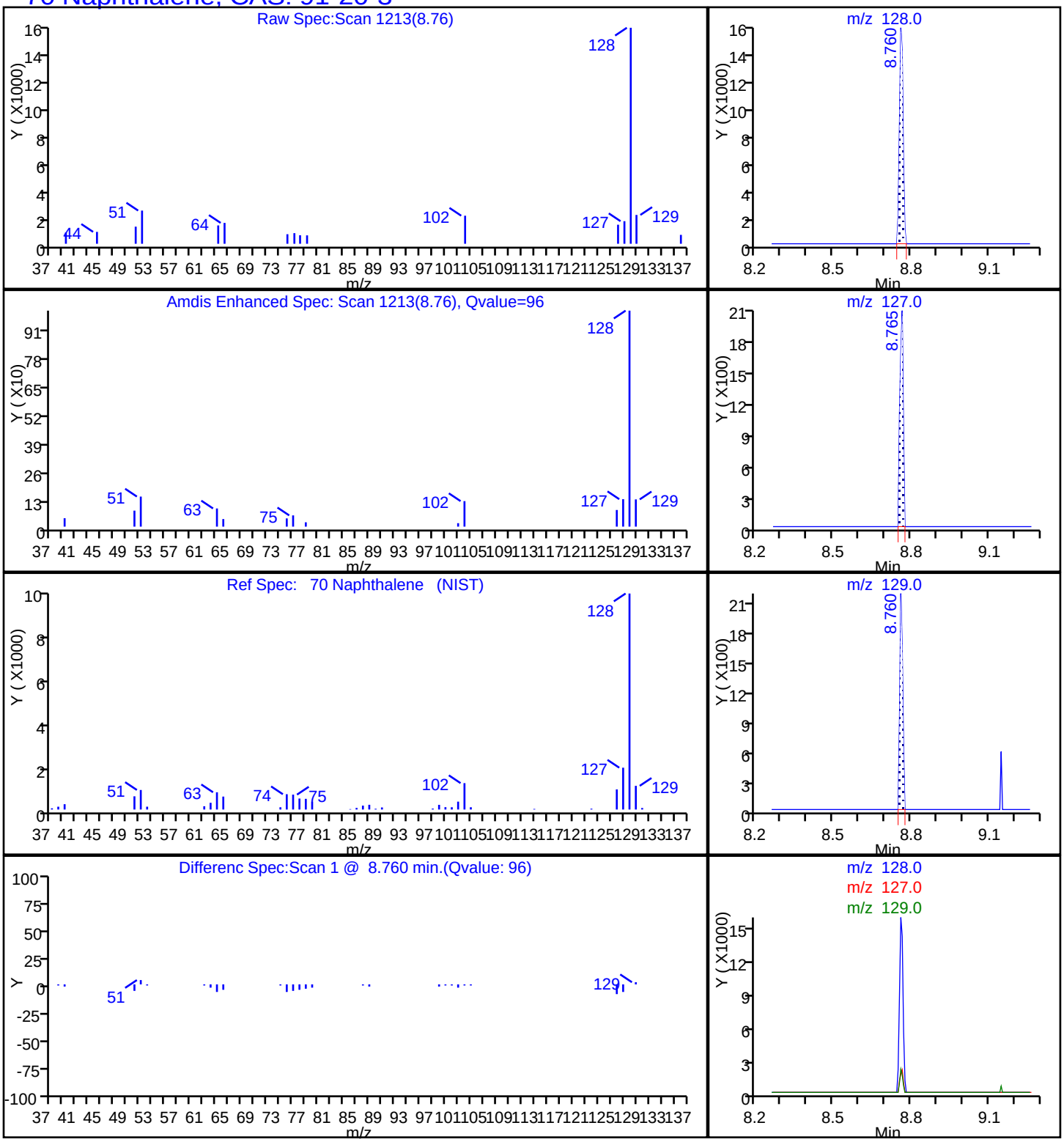
194 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
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Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

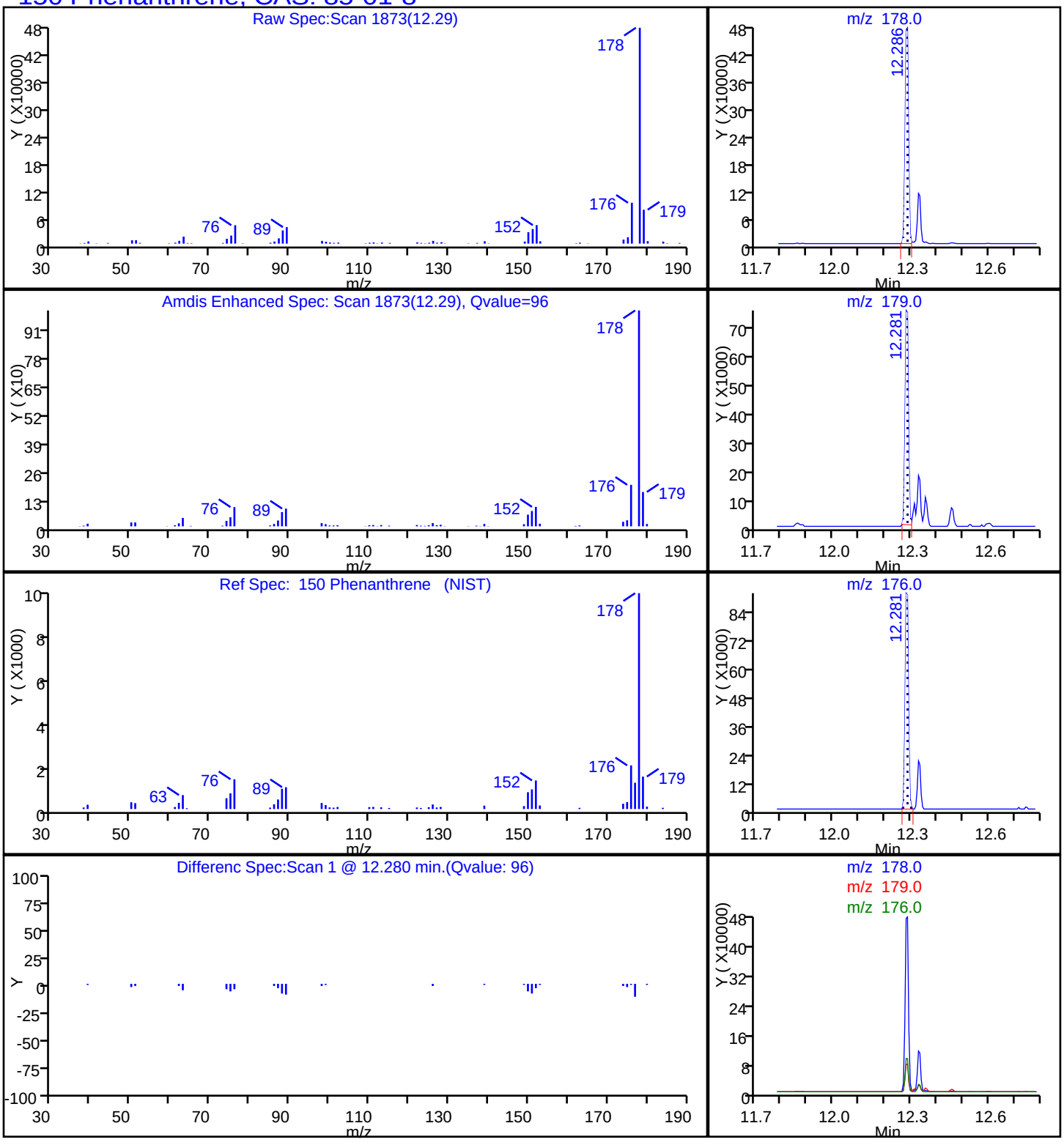
70 Naphthalene, CAS: 91-20-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

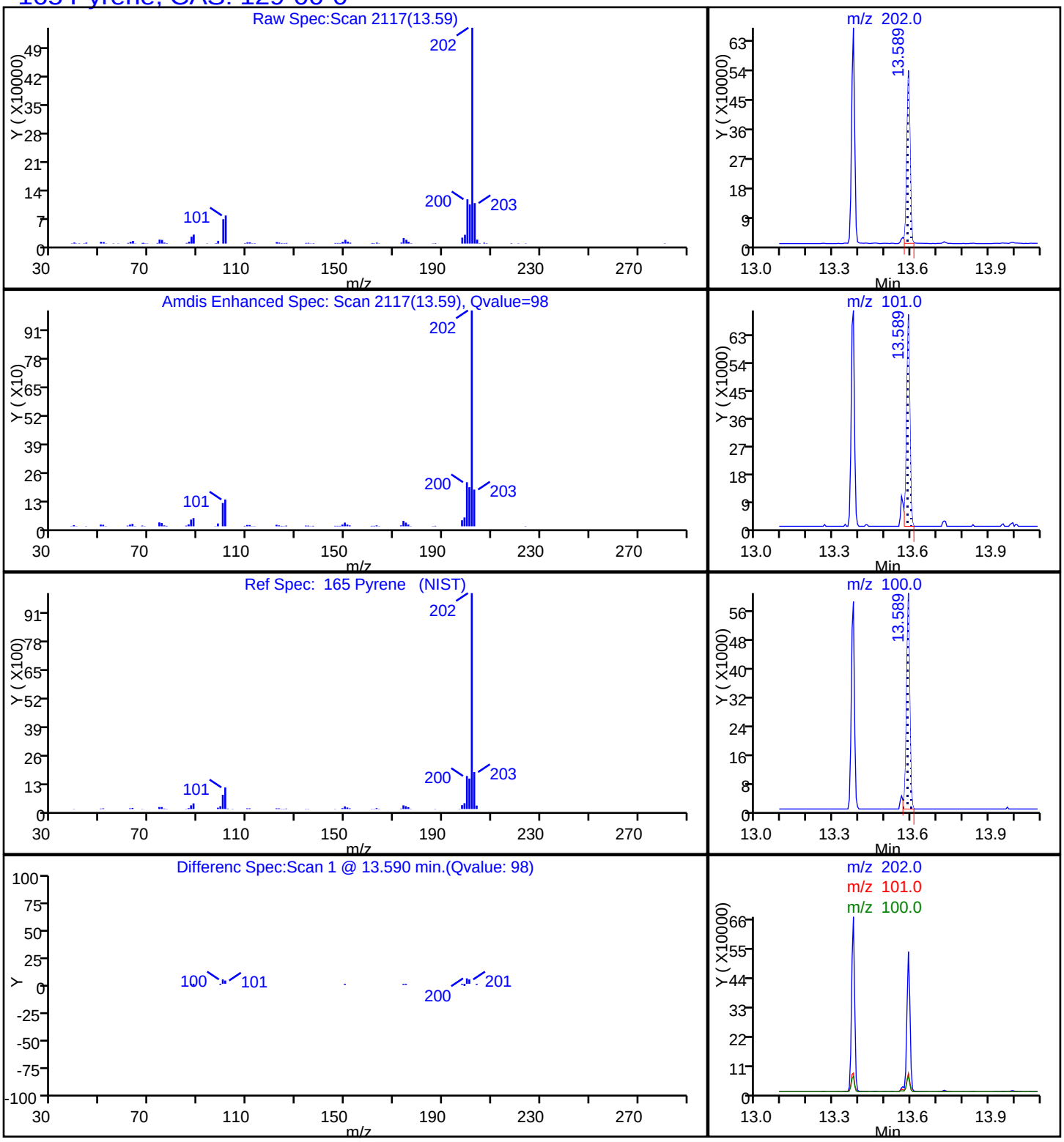
150 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328822.D				
Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

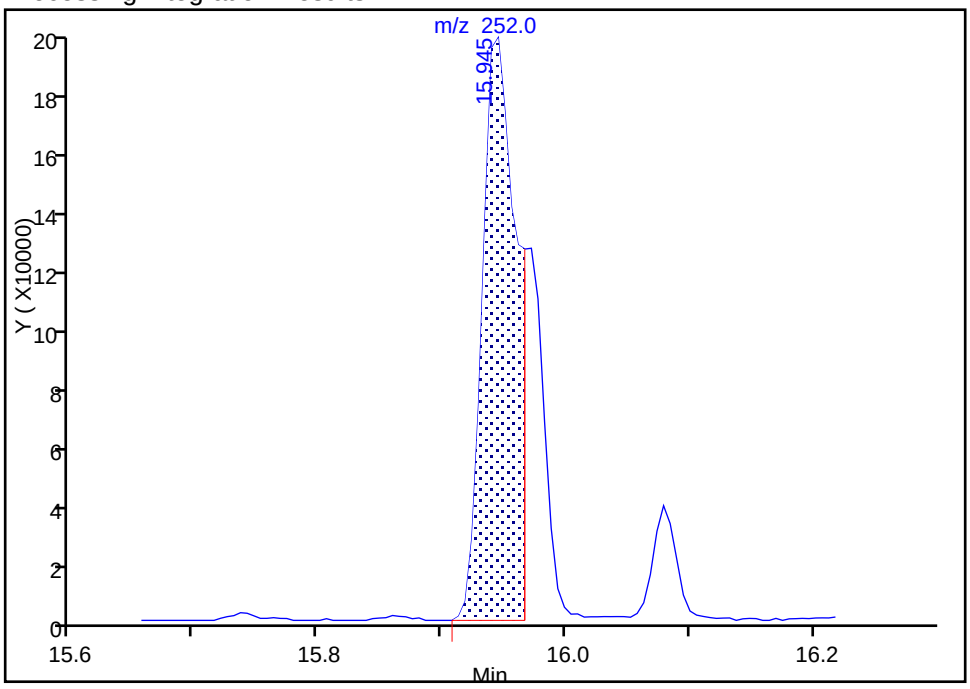
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Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

185 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

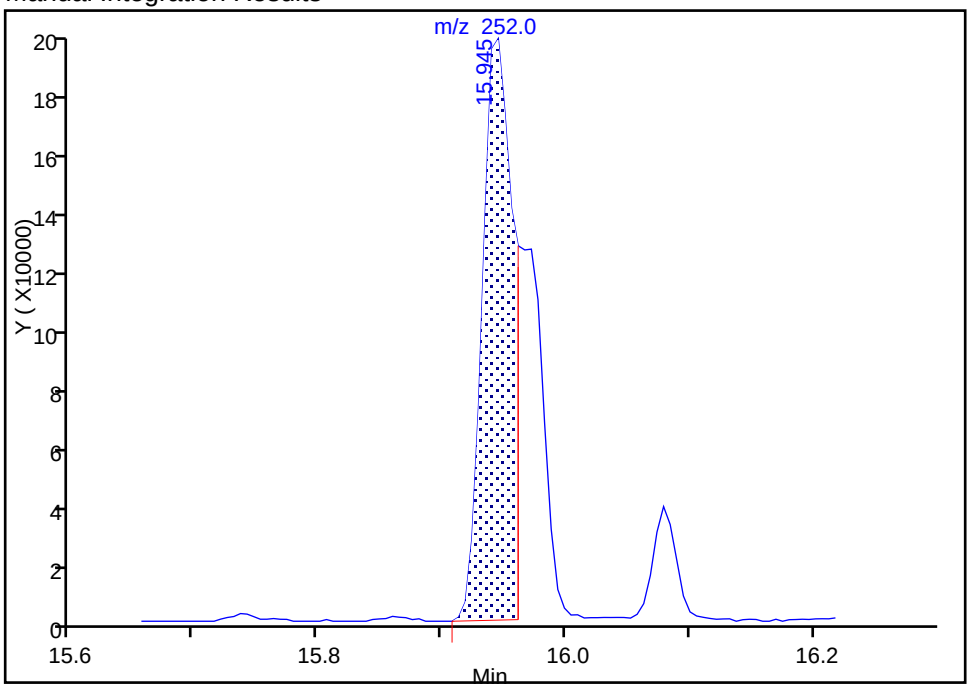
Processing Integration Results

RT: 15.95
Area: 379830
Amount: 23.238040
Amount Units: ng/uL



Manual Integration Results

RT: 15.95
Area: 339111
Amount: 20.746847
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:34:44

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

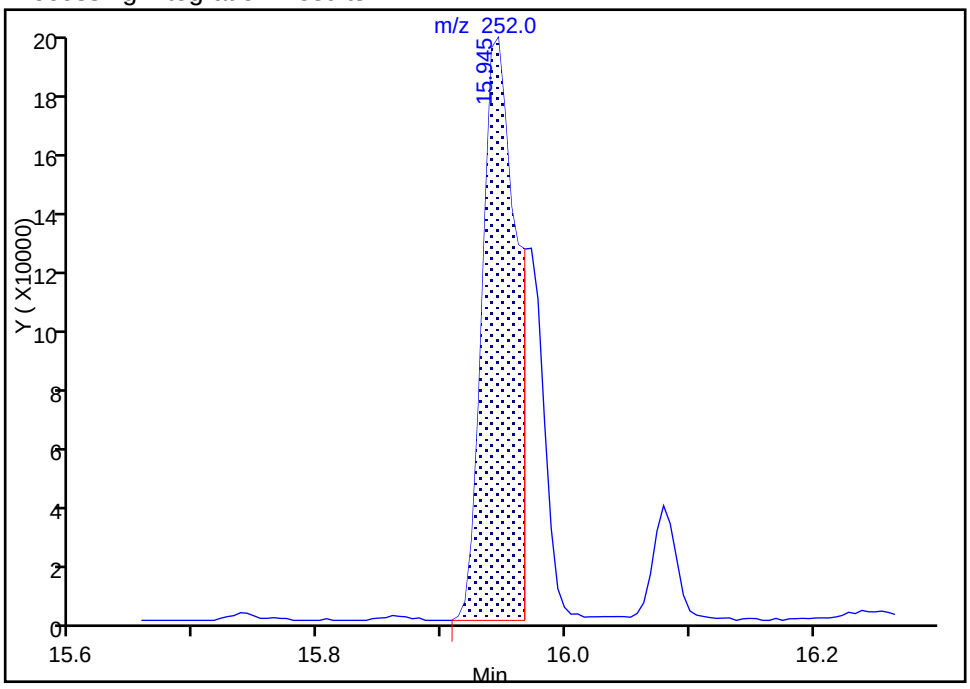
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Injection Date:	13-Nov-2017 18:49:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-7-A	Lab Sample ID:	480-127239-7		
Client ID:	NS-NORTH-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

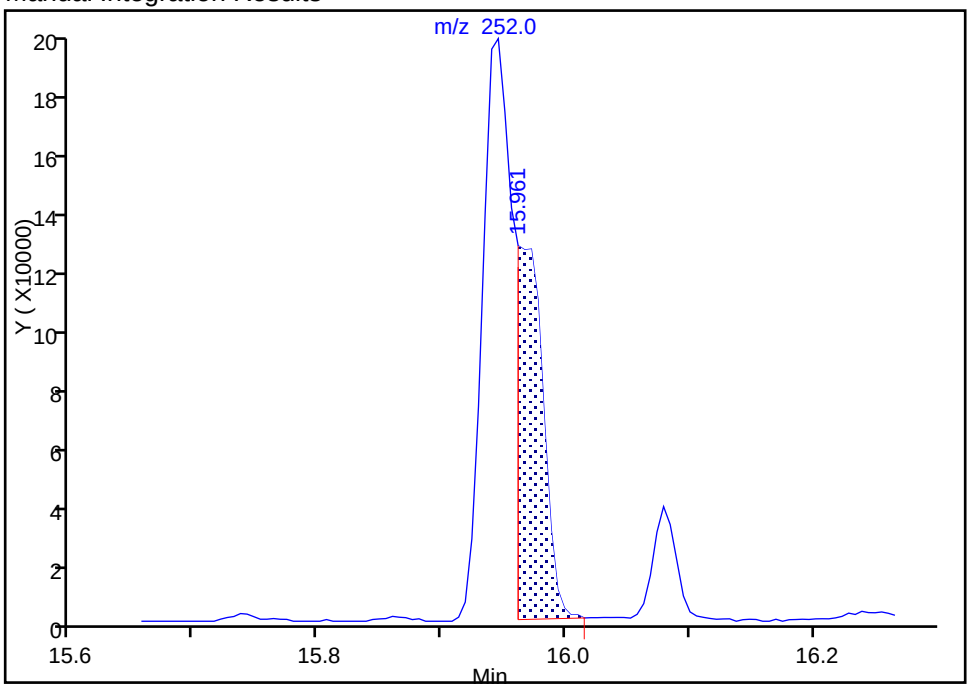
Processing Integration Results

RT: 15.95
Area: 379830
Amount: 22.651978
Amount Units: ng/uL



Manual Integration Results

RT: 15.96
Area: 188745
Amount: 11.256213
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:35:03

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 2-12" | Lab Sample ID: 480-127239-8

Matrix: Solid | Lab File ID: U328823.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.09(g) | Date Analyzed: 11/13/2017 19:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4400	650
108-60-1	bis (2-chloroisopropyl) ether	ND		4400	880
95-95-4	2,4,5-Trichlorophenol	ND		4400	1200
88-06-2	2,4,6-Trichlorophenol	ND		4400	880
120-83-2	2,4-Dichlorophenol	ND		4400	470
105-67-9	2,4-Dimethylphenol	ND		4400	1100
51-28-5	2,4-Dinitrophenol	ND		43000	20000
121-14-2	2,4-Dinitrotoluene	ND		4400	910
606-20-2	2,6-Dinitrotoluene	ND		4400	520
91-58-7	2-Chloronaphthalene	ND		4400	730
95-57-8	2-Chlorophenol	ND		4400	800
91-57-6	2-Methylnaphthalene	ND		4400	880
95-48-7	2-Methylphenol	ND		4400	520
88-74-4	2-Nitroaniline	ND		8600	650
88-75-5	2-Nitrophenol	ND		4400	1200
91-94-1	3,3'-Dichlorobenzidine	ND		8600	5200
99-09-2	3-Nitroaniline	ND		8600	1200
534-52-1	4,6-Dinitro-2-methylphenol	ND		8600	4400
101-55-3	4-Bromophenyl phenyl ether	ND		4400	620
59-50-7	4-Chloro-3-methylphenol	ND		4400	1100
106-47-8	4-Chloroaniline	ND		4400	1100
7005-72-3	4-Chlorophenyl phenyl ether	ND		4400	550
106-44-5	4-Methylphenol	ND		8600	520
100-01-6	4-Nitroaniline	ND		8600	2300
100-02-7	4-Nitrophenol	ND		8600	3100
83-32-9	Acenaphthene	940	J	4400	650
208-96-8	Acenaphthylene	2500	J	4400	570
98-86-2	Acetophenone	ND		4400	600
120-12-7	Anthracene	4300	J	4400	1100
1912-24-9	Atrazine	ND		4400	1500
100-52-7	Benzaldehyde	ND		4400	3500
56-55-3	Benzo(a)anthracene	12000		4400	440
50-32-8	Benzo(a)pyrene	10000		4400	650
205-99-2	Benzo(b)fluoranthene	13000		4400	700

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 2-12" | Lab Sample ID: 480-127239-8

Matrix: Solid | Lab File ID: U328823.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.09(g) | Date Analyzed: 11/13/2017 19:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	7600		4400	470
207-08-9	Benzo(k)fluoranthene	7100		4400	570
111-91-1	Bis(2-chloroethoxy)methane	ND		4400	930
111-44-4	Bis(2-chloroethyl)ether	ND		4400	570
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4400	1500
85-68-7	Butyl benzyl phthalate	ND		4400	730
105-60-2	Caprolactam	ND		4400	1300
86-74-8	Carbazole	2900	J	4400	520
218-01-9	Chrysene	12000		4400	990
84-74-2	Di-n-butyl phthalate	ND		4400	750
117-84-0	Di-n-octyl phthalate	ND		4400	520
53-70-3	Dibenz(a,h)anthracene	2500	J	4400	780
132-64-9	Dibenzofuran	1700	J	4400	520
84-66-2	Diethyl phthalate	ND		4400	570
131-11-3	Dimethyl phthalate	ND		4400	520
206-44-0	Fluoranthene	26000		4400	470
86-73-7	Fluorene	2700	J	4400	520
118-74-1	Hexachlorobenzene	ND		4400	600
87-68-3	Hexachlorobutadiene	ND		4400	650
77-47-4	Hexachlorocyclopentadiene	ND		4400	600
67-72-1	Hexachloroethane	ND		4400	570
193-39-5	Indeno(1,2,3-cd)pyrene	7000		4400	550
78-59-1	Isophorone	ND		4400	930
621-64-7	N-Nitrosodi-n-propylamine	ND		4400	750
86-30-6	N-Nitrosodiphenylamine	ND		4400	3600
91-20-3	Naphthalene	1200	J	4400	570
98-95-3	Nitrobenzene	ND		4400	490
87-86-5	Pentachlorophenol	ND		8600	4400
85-01-8	Phenanthrene	20000		4400	650
108-95-2	Phenol	ND		4400	670
129-00-0	Pyrene	20000		4400	520

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 2-12" | Lab Sample ID: 480-127239-8

Matrix: Solid | Lab File ID: U328823.D

Analysis Method: 8270D | Date Collected: 11/07/2017 13:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.09(g) | Date Analyzed: 11/13/2017 19:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	149	X	54-120
321-60-8	2-Fluorobiphenyl	83		60-120
367-12-4	2-Fluorophenol	63		52-120
4165-60-0	Nitrobenzene-d5	64		53-120
1718-51-0	p-Terphenyl-d14	91		65-121
4165-62-2	Phenol-d5	75		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D
Lims ID: 480-127239-A-8-A
Client ID: NS-EAST-SOIL 2-12"
Sample Type: Client
Inject. Date: 13-Nov-2017 19:15:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 480-0067222-012
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 14-Nov-2017 11:42:47 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: richardsd Date: 14-Nov-2017 11:41:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	97	93643	40.0	
* 2 Naphthalene-d8	136	8.738	8.739	-0.001	99	335336	40.0	
* 3 Acenaphthene-d10	164	10.763	10.769	-0.006	95	170653	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	97	327901	40.0	
* 5 Chrysene-d12	240	14.711	14.711	0.000	96	482632	40.0	
* 6 Perylene-d12	264	16.490	16.485	0.005	99	600143	40.0	
$ 7 2-Fluorophenol	112	5.661	5.656	0.005	91	3960	1.26	
$ 8 Phenol-d5	99	6.735	6.730	0.005	2	5788	1.50	
$ 9 Nitrobenzene-d5	82	7.862	7.862	0.000	94	4690	1.29	
$ 10 2-Fluorobiphenyl	172	9.983	9.983	0.000	98	11076	1.66	
$ 11 2,4,6-Tribromophenol	330	11.575	11.581	-0.006	1	1131	2.98	
$ 12 p-Terphenyl-d14	244	13.669	13.669	0.000	98	15770	1.82	
32 Benzaldehyde	77		6.703				ND	
33 Phenol	94		6.751				ND	
35 Bis(2-chloroethyl)ether	93		6.869				ND	
37 2-Chlorophenol	128		6.981				ND	
43 2-Methylphenol	108		7.467				ND	
44 2,2'-oxybis[1-chloropropan	45		7.504				ND	
46 4-Methylphenol	108		7.638				ND	
47 N-Nitrosodi-n-propylamine	70		7.654				ND	
49 Acetophenone	105		7.675				ND	
53 Hexachloroethane	117		7.846				ND	
54 Nitrobenzene	77		7.884				ND	
56 Isophorone	82		8.156				ND	
59 2-Nitrophenol	139		8.268				ND	
60 2,4-Dimethylphenol	107		8.274				ND	
62 Bis(2-chloroethoxy)methane	93		8.381				ND	
67 2,4-Dichlorophenol	162		8.546				ND	
70 Naphthalene	128	8.760	8.760	0.000	96	11169	1.33	
72 4-Chloroaniline	127		8.792				ND	
74 Hexachlorobutadiene	225		8.904				ND	
76 Caprolactam	113		9.171				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		9.337				ND	
83 2-Methylnaphthalene	142	9.577	9.577	0.000	94	5632	0.9860	
86 Hexachlorocyclopentadiene	237		9.775				ND	
89 2,4,6-Trichlorophenol	196		9.898				ND	
91 2,4,5-Trichlorophenol	196		9.941				ND	
94 1,1'-Biphenyl	154		10.106				ND	
95 2-Chloronaphthalene	162		10.149				ND	
98 2-Nitroaniline	65		10.234				ND	
102 Dimethyl phthalate	163		10.411				ND	
104 2,6-Dinitrotoluene	165		10.485				ND	
105 Acenaphthylene	152	10.619	10.614	0.005	98	23339	2.89	
106 3-Nitroaniline	138		10.683				ND	
107 2,4-Dinitrophenol	184		10.790				ND	
108 Acenaphthene	153	10.801	10.801	0.000	92	6031	1.09	
109 4-Nitrophenol	109		10.833				ND	
111 2,4-Dinitrotoluene	165		10.929				ND	
112 Dibenzofuran	168	10.982	10.982	0.000	96	15891	2.00	
118 Diethyl phthalate	149		11.153				ND	
121 4-Chlorophenyl phenyl ethe	204		11.308				ND	
122 4-Nitroaniline	138		11.324				ND	
123 Fluorene	166	11.335	11.335	0.000	94	20240	3.11	
125 4,6-Dinitro-2-methylphenol	198		11.356				ND	
127 N-Nitrosodiphenylamine	169		11.420				ND	
137 4-Bromophenyl phenyl ether	248		11.800				ND	
139 Hexachlorobenzene	284		11.901				ND	
141 Atrazine	200		11.912				ND	
143 Pentachlorophenol	266		12.072				ND	
150 Phenanthrene	178	12.280	12.286	-0.006	97	221190	23.4	
151 Anthracene	178	12.328	12.329	0.000	96	48045	4.92	
152 Carbazole	167	12.457	12.457	0.000	97	28735	3.32	
155 Di-n-butyl phthalate	149		12.708				ND	
162 Fluoranthene	202	13.376	13.376	0.000	98	322191	29.7	
165 Pyrene	202	13.589	13.589	0.000	98	245897	22.8	
172 Butyl benzyl phthalate	149		14.059				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.551				ND	
179 3,3'-Dichlorobenzidine	252		14.615				ND	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	96	195290	14.1	
182 Chrysene	228	14.732	14.738	-0.006	96	186175	13.9	
183 Di-n-octyl phthalate	149		15.208				ND	
185 Benzo[b]fluoranthene	252	15.940	15.940	0.000	95	270953	15.4	
187 Benzo[k]fluoranthene	252	15.967	15.977	-0.010	97	149164	8.26	M
190 Benzo[a]pyrene	252	16.410	16.410	0.000	75	207191	12.1	
193 Dibenz(a,h)anthracene	278	18.301	18.306	-0.005	85	47674	2.94	
194 Indeno[1,2,3-cd]pyrene	276	18.312	18.317	-0.005	98	153954	8.06	
195 Benzo[g,h,i]perylene	276	18.889	18.894	-0.005	98	132028	8.75	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

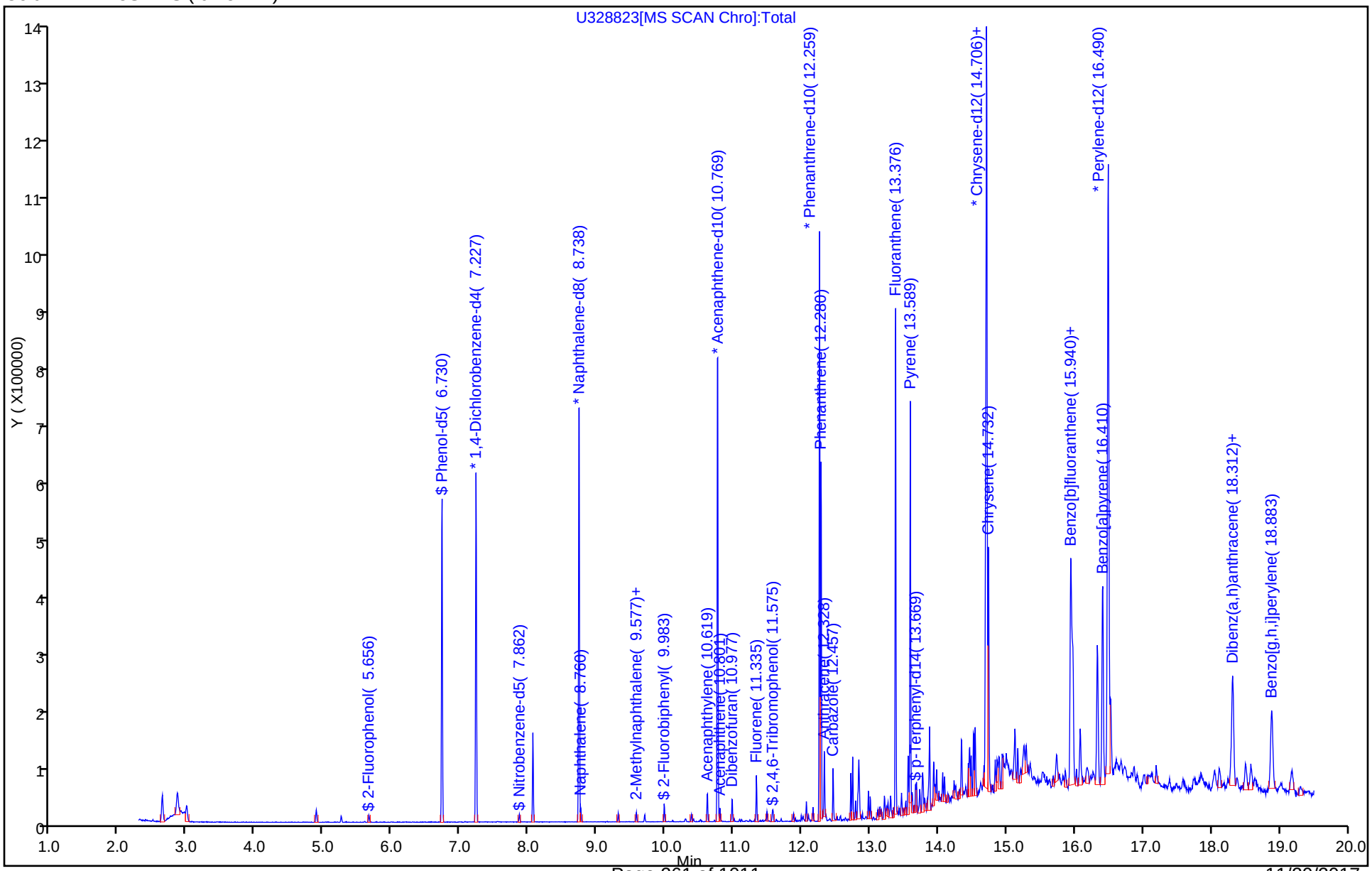
Report Date: 14-Nov-2017 11:50:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D

Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8	Worklist Smp#:	12
Client ID:	NS-EAST-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	12
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)

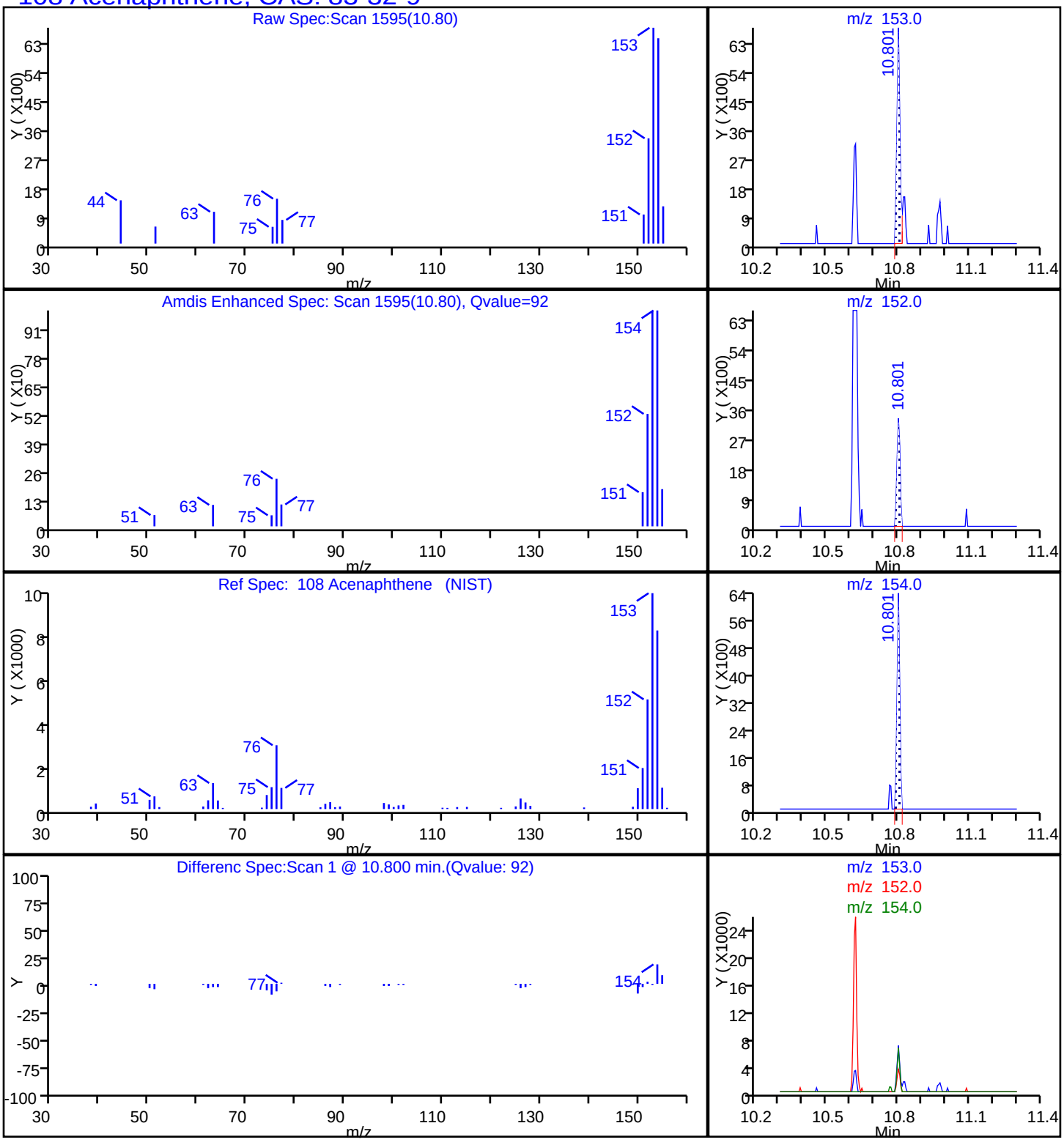


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D

Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

108 Acenaphthene, CAS: 83-32-9

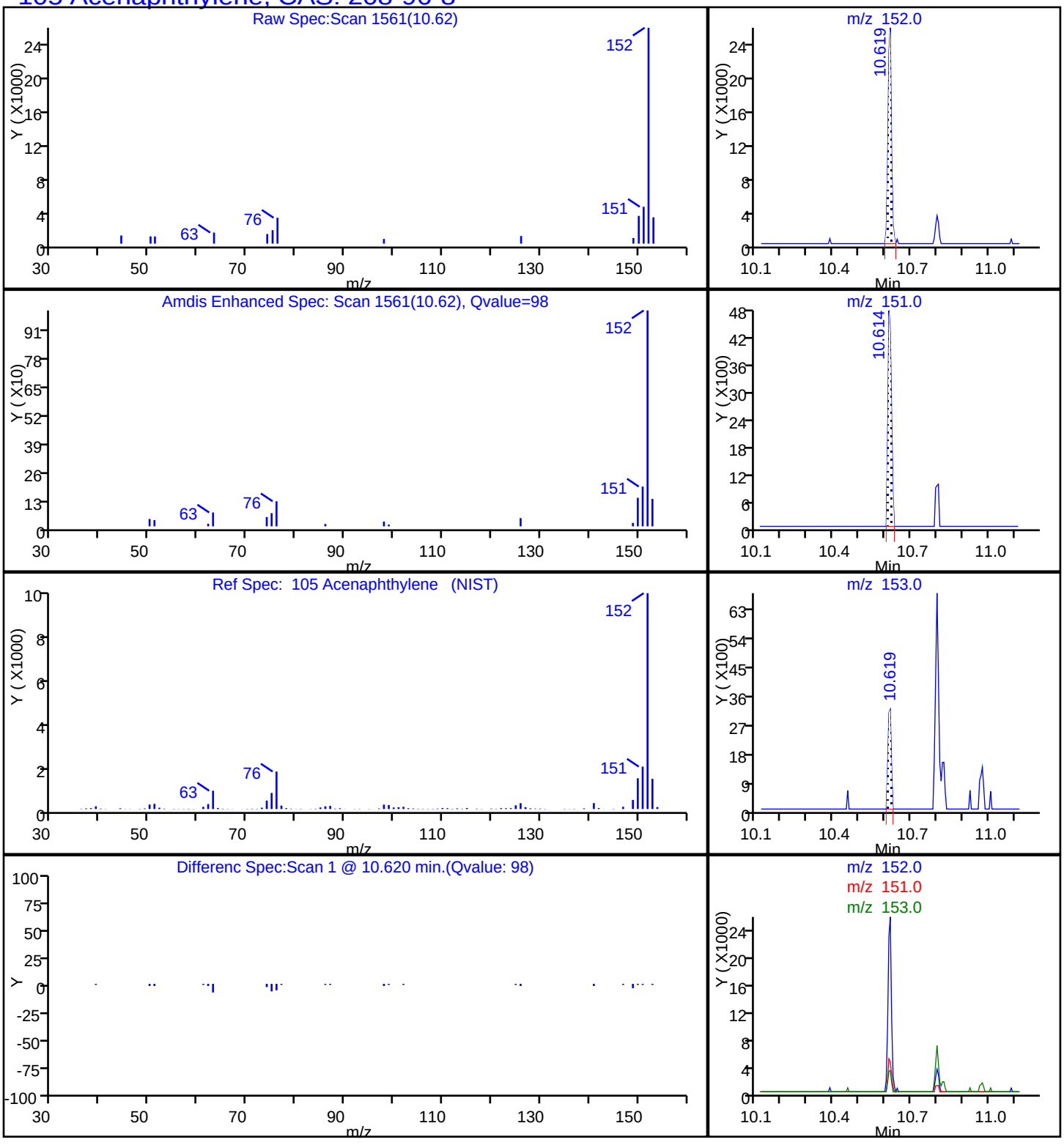


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D

Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

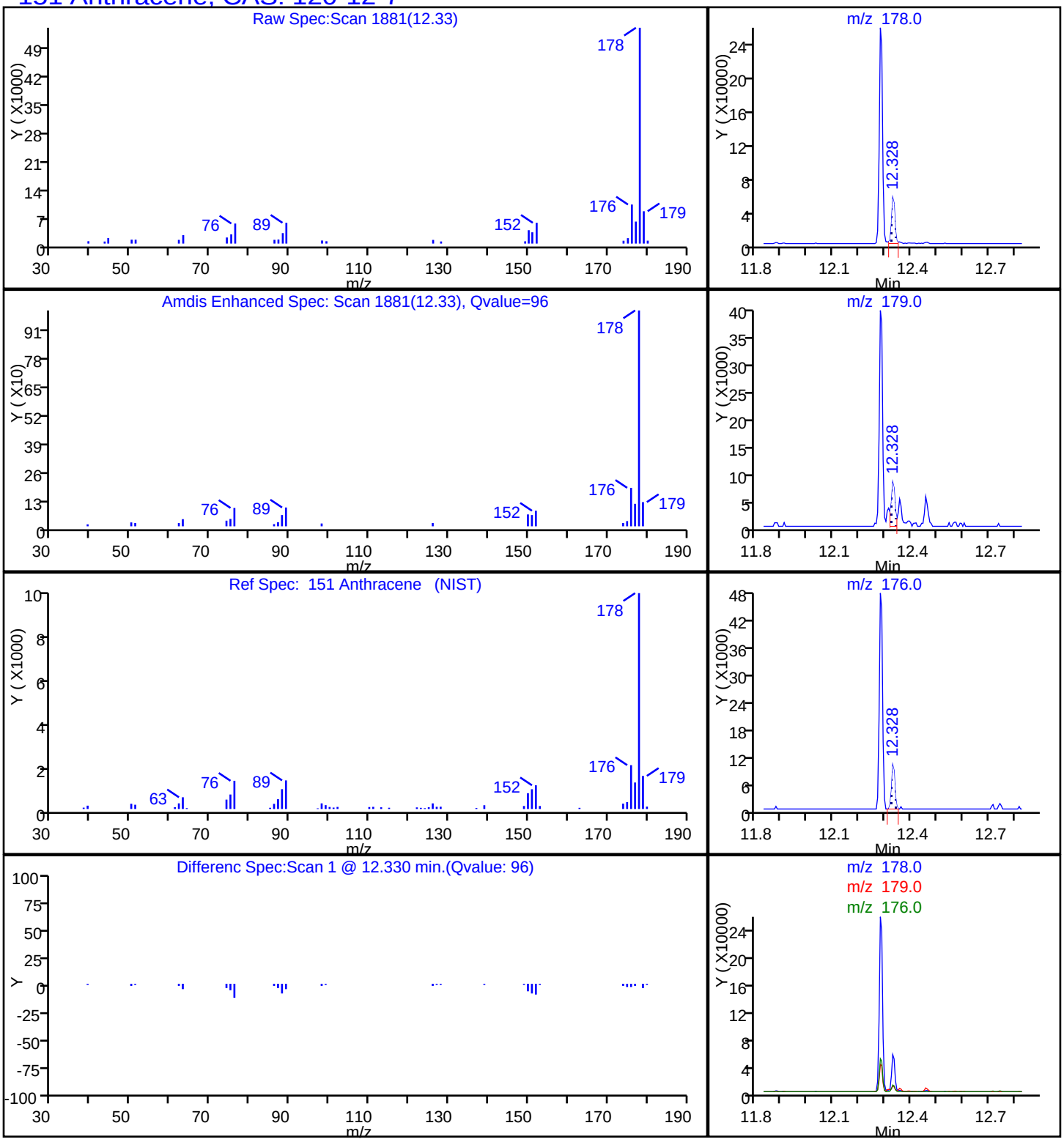
105 Acenaphthylene, CAS: 208-96-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

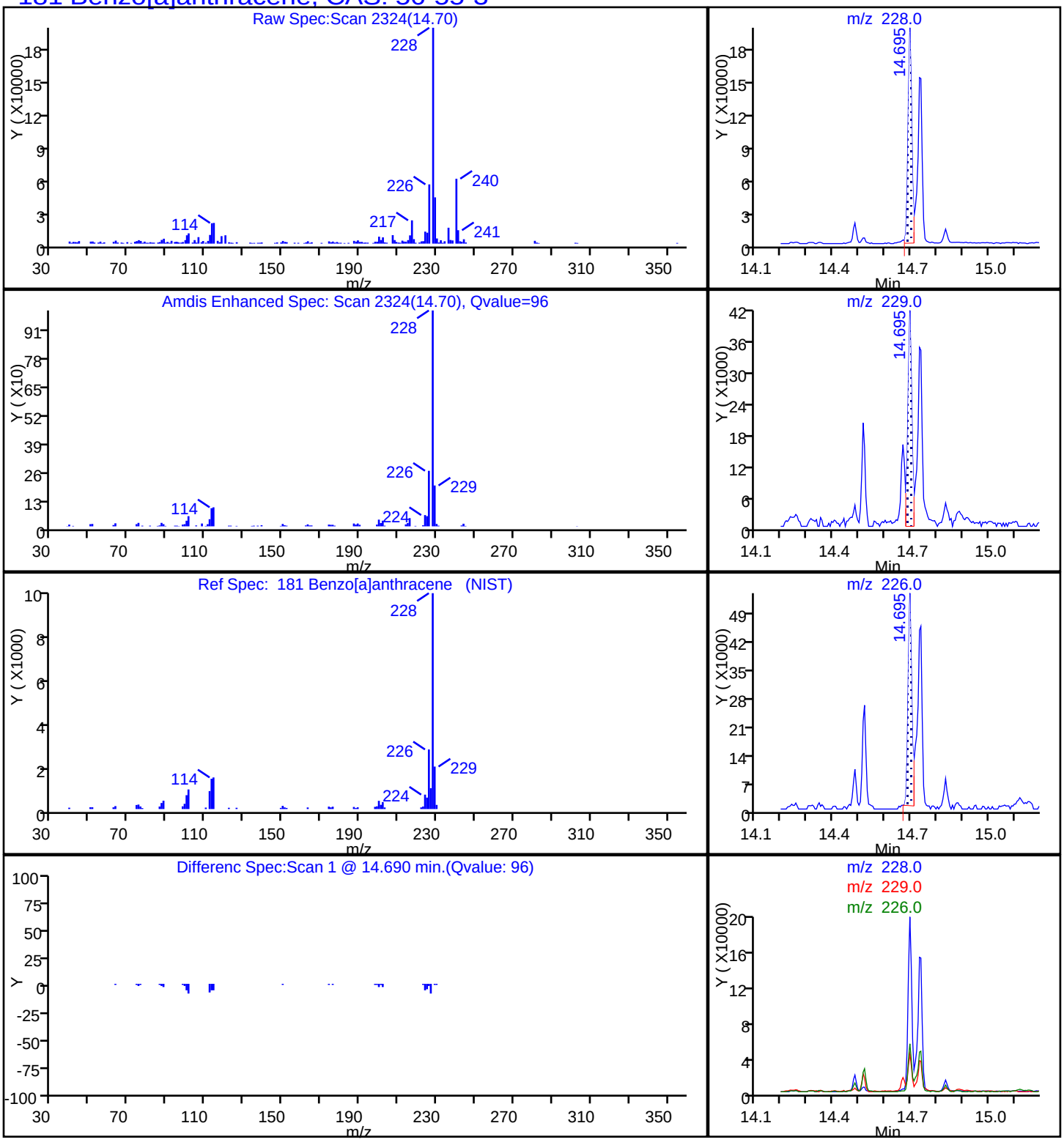
151 Anthracene, CAS: 120-12-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

181 Benzo[a]anthracene, CAS: 56-55-3

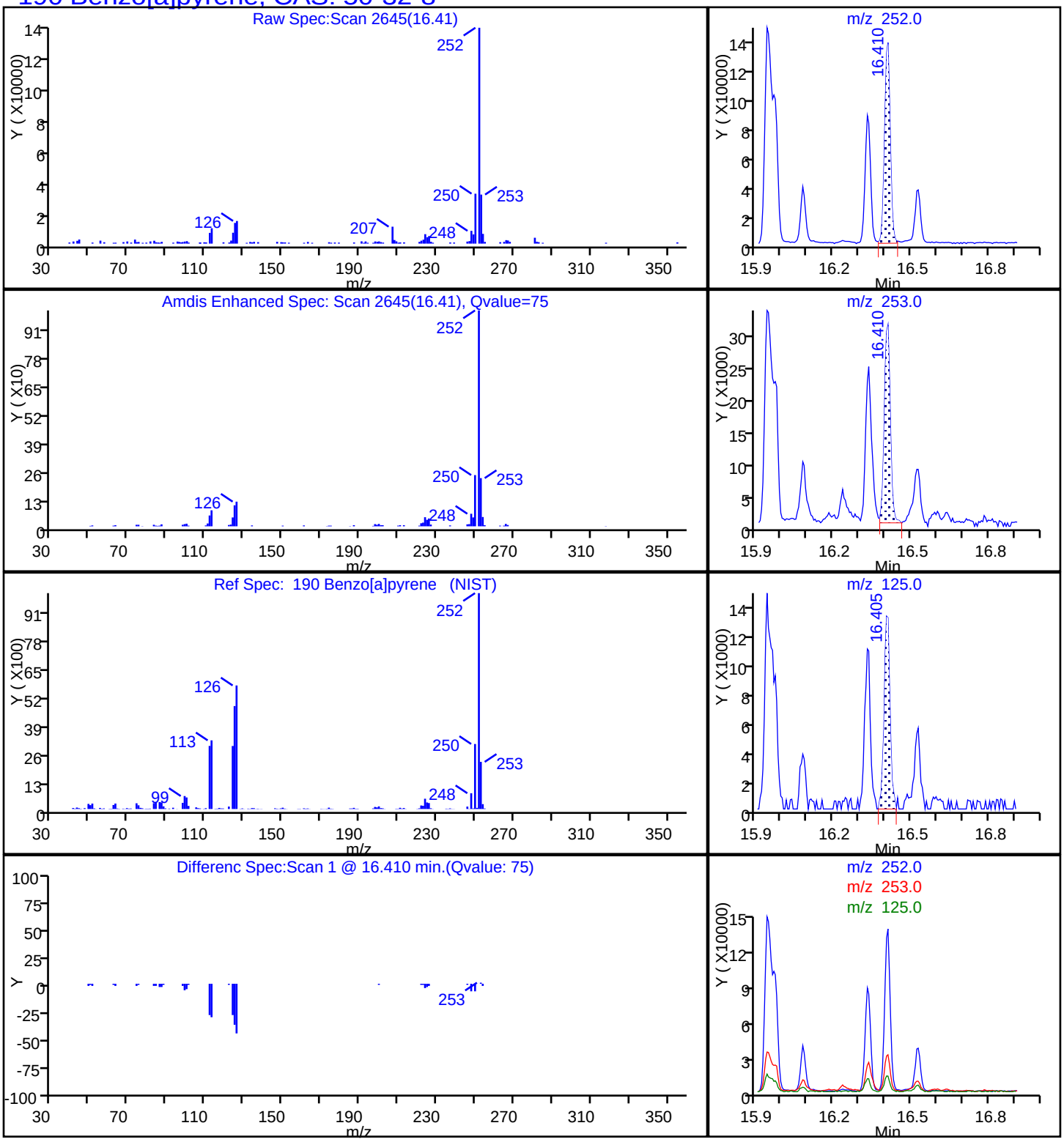


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D

Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8
Client ID:	NS-EAST-SOIL 2-12"		
Operator ID:	DR	ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

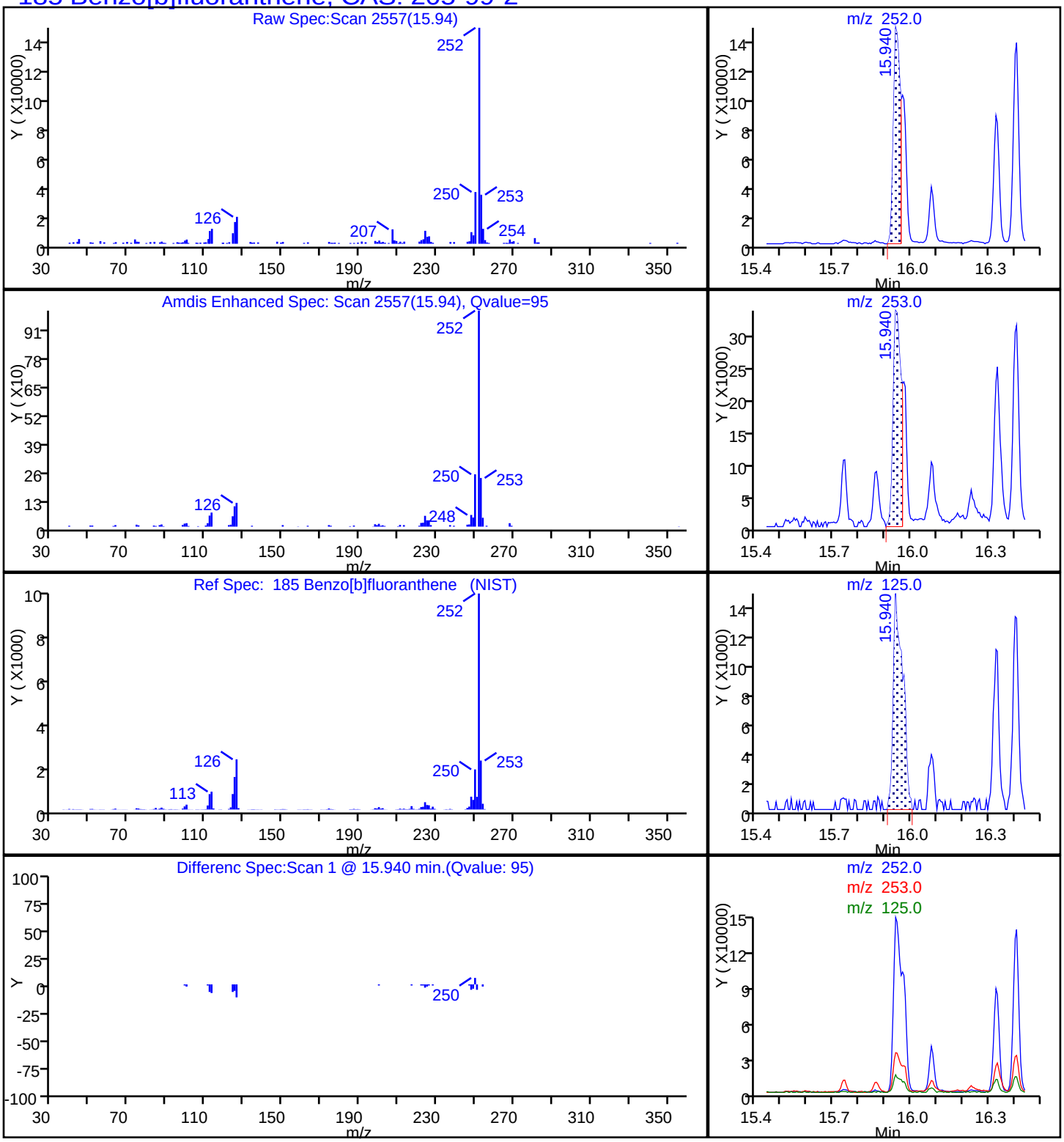
190 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

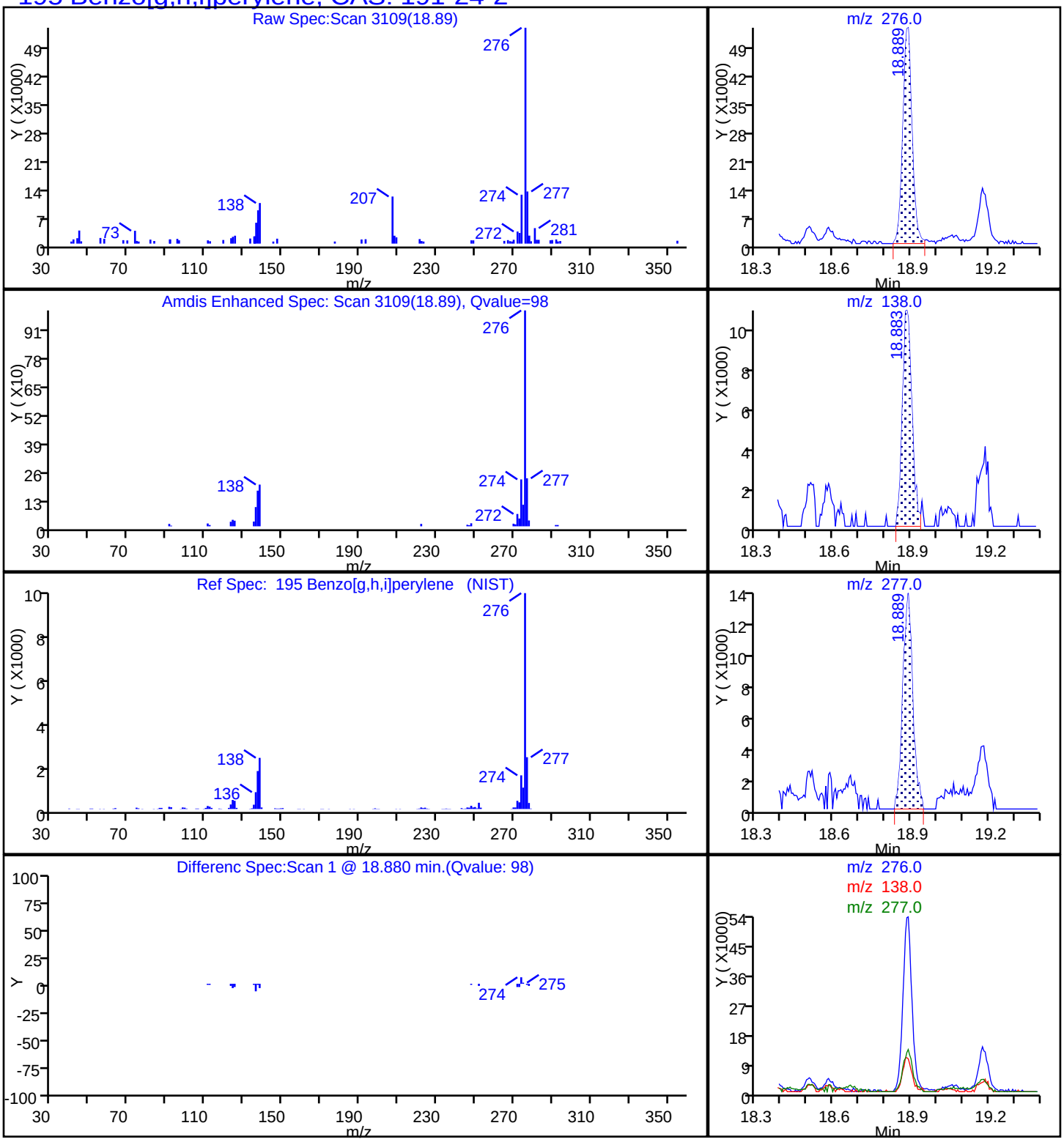
185 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

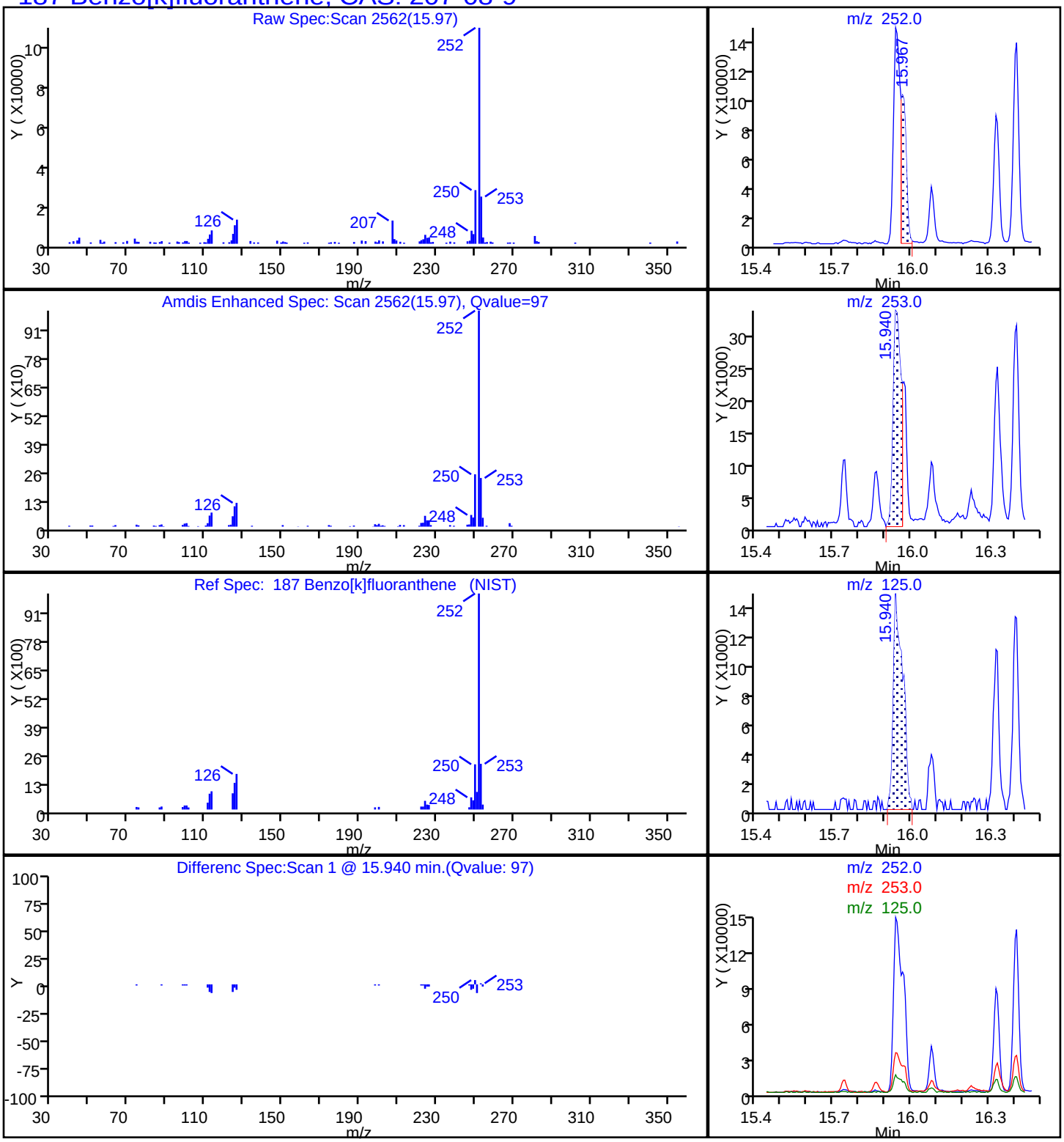
195 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

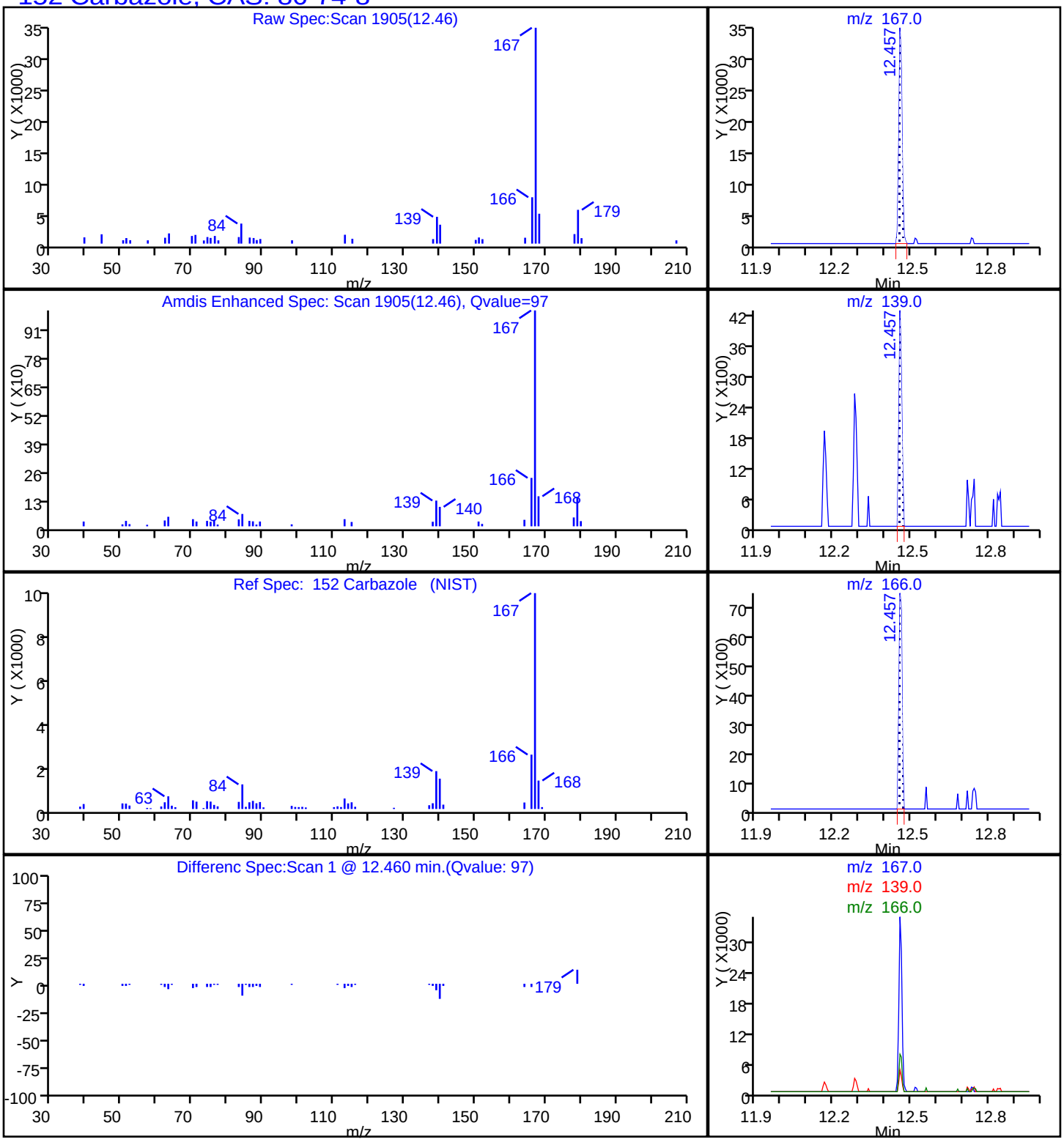
187 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

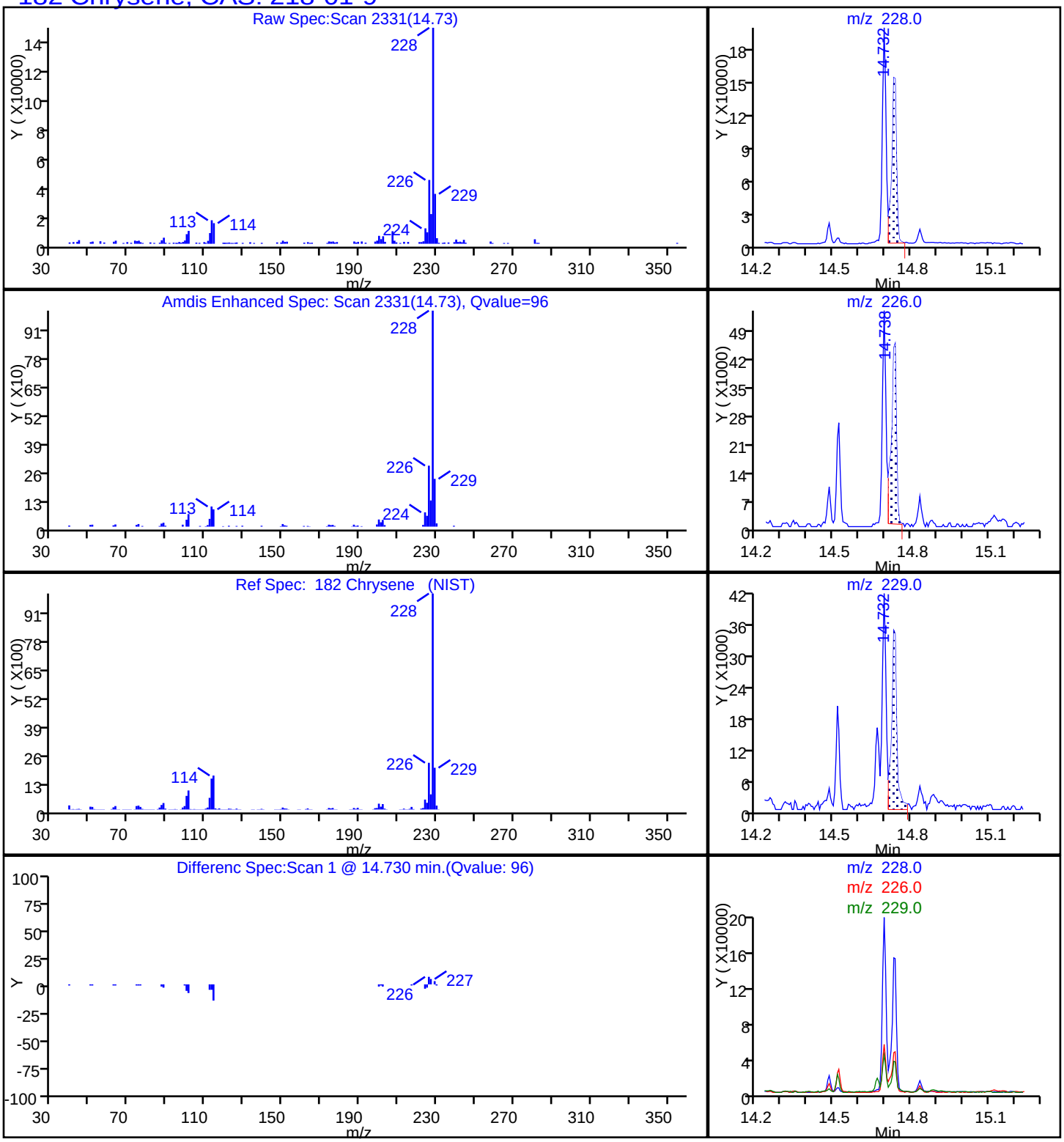
152 Carbazole, CAS: 86-74-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

182 Chrysene, CAS: 218-01-9



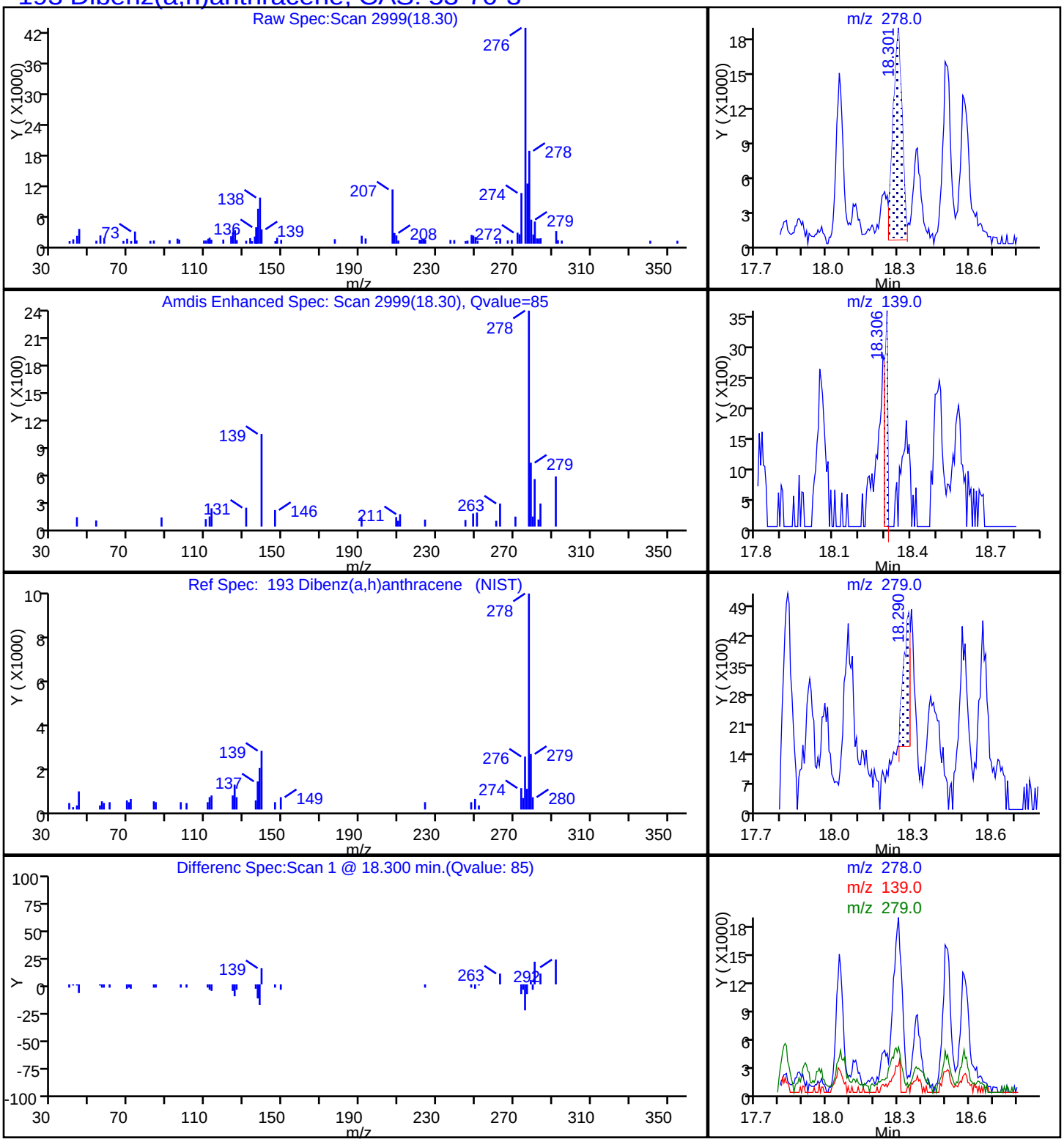
Report Date: 14-Nov-2017 11:50:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D

Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

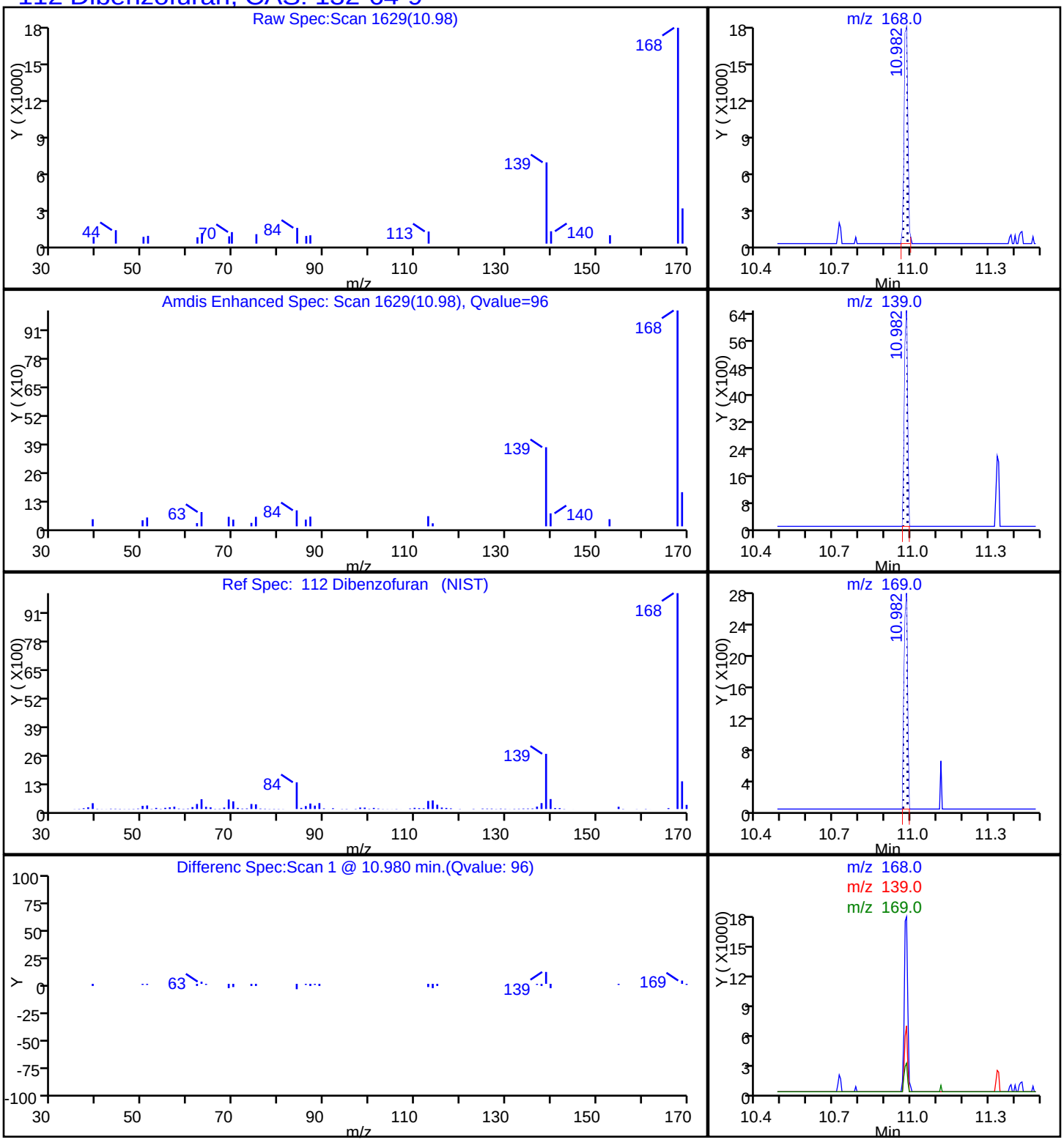
193 Dibenz(a,h)anthracene, CAS: 53-70-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

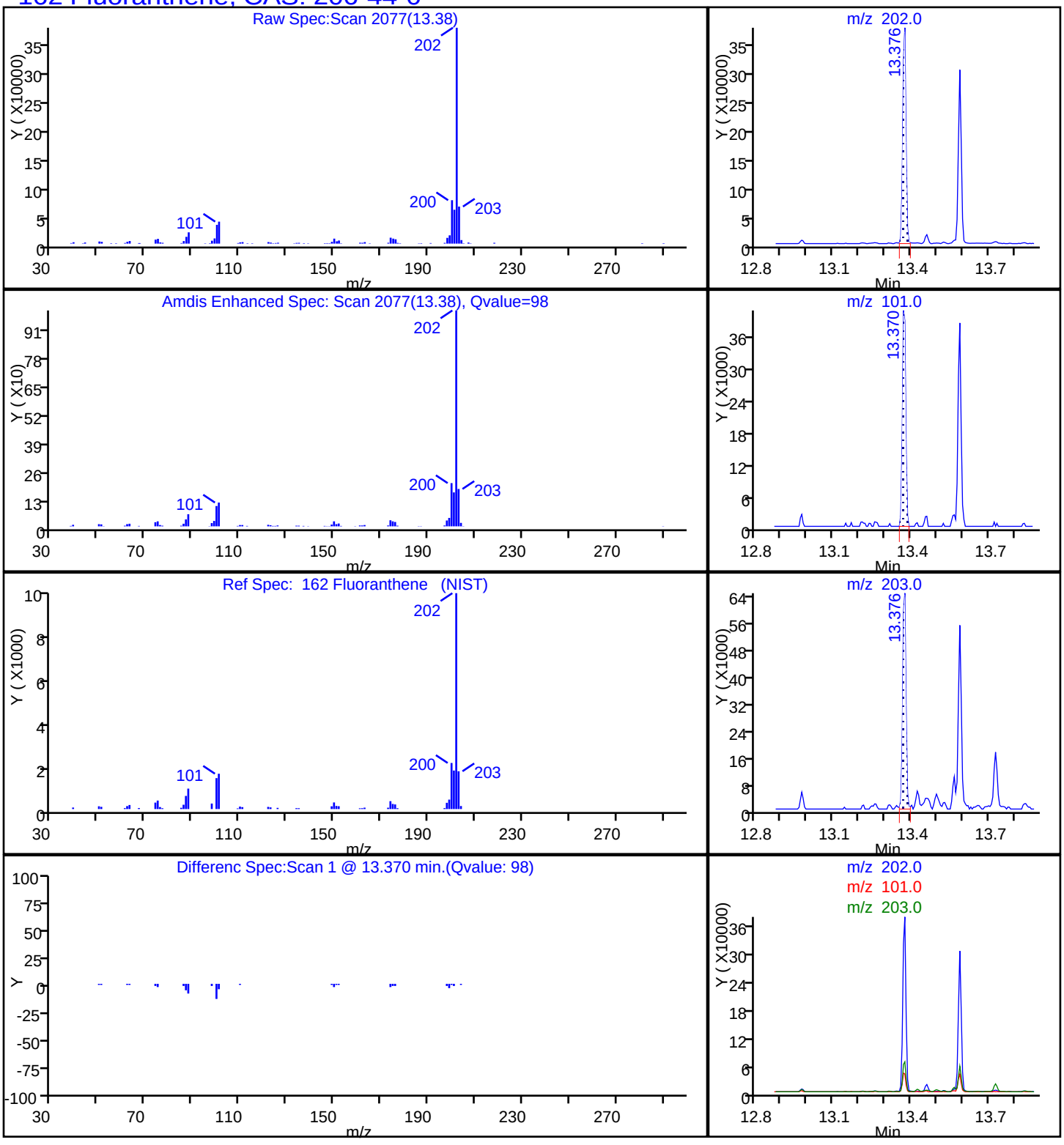
112 Dibenzofuran, CAS: 132-64-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

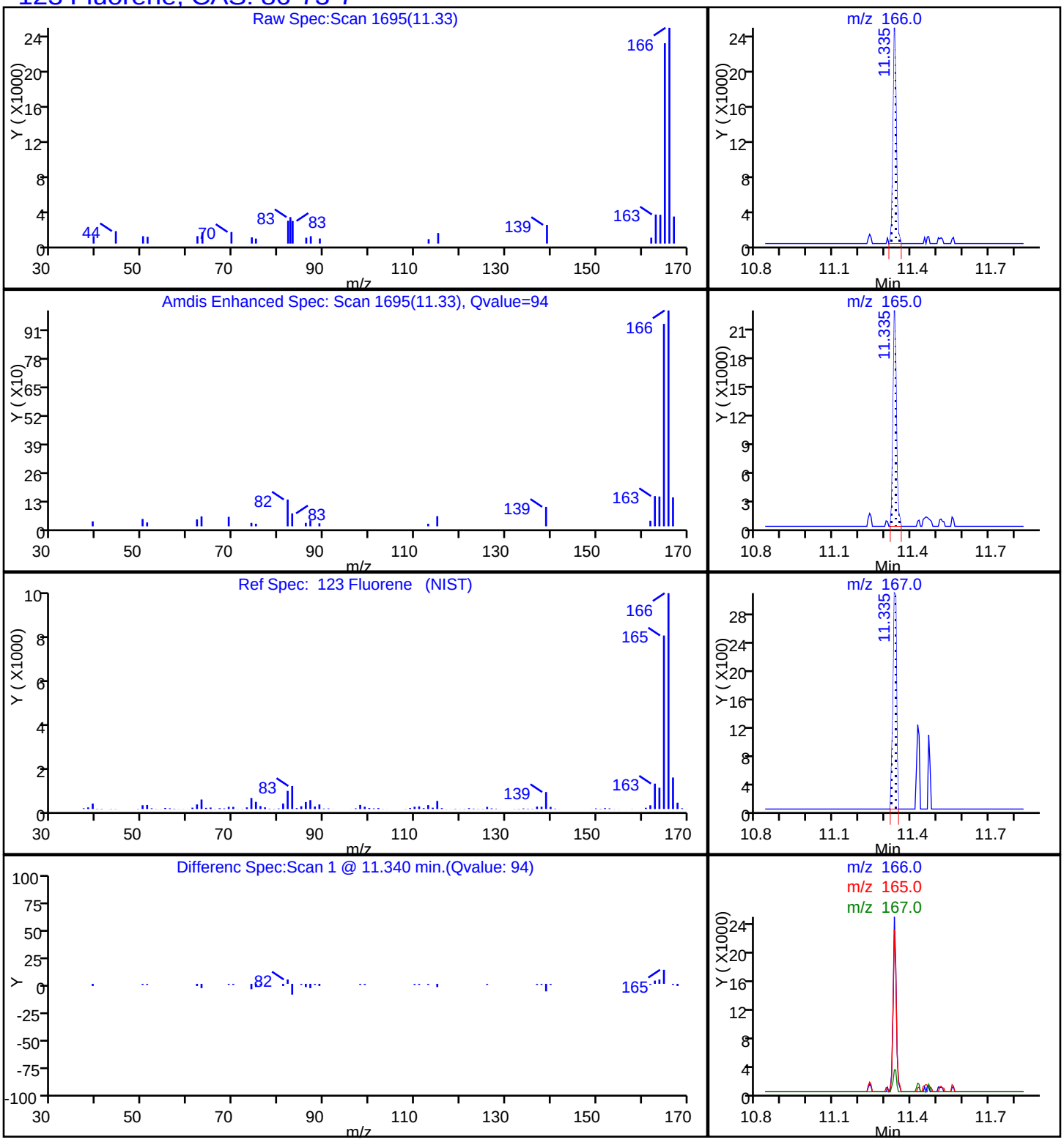
162 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

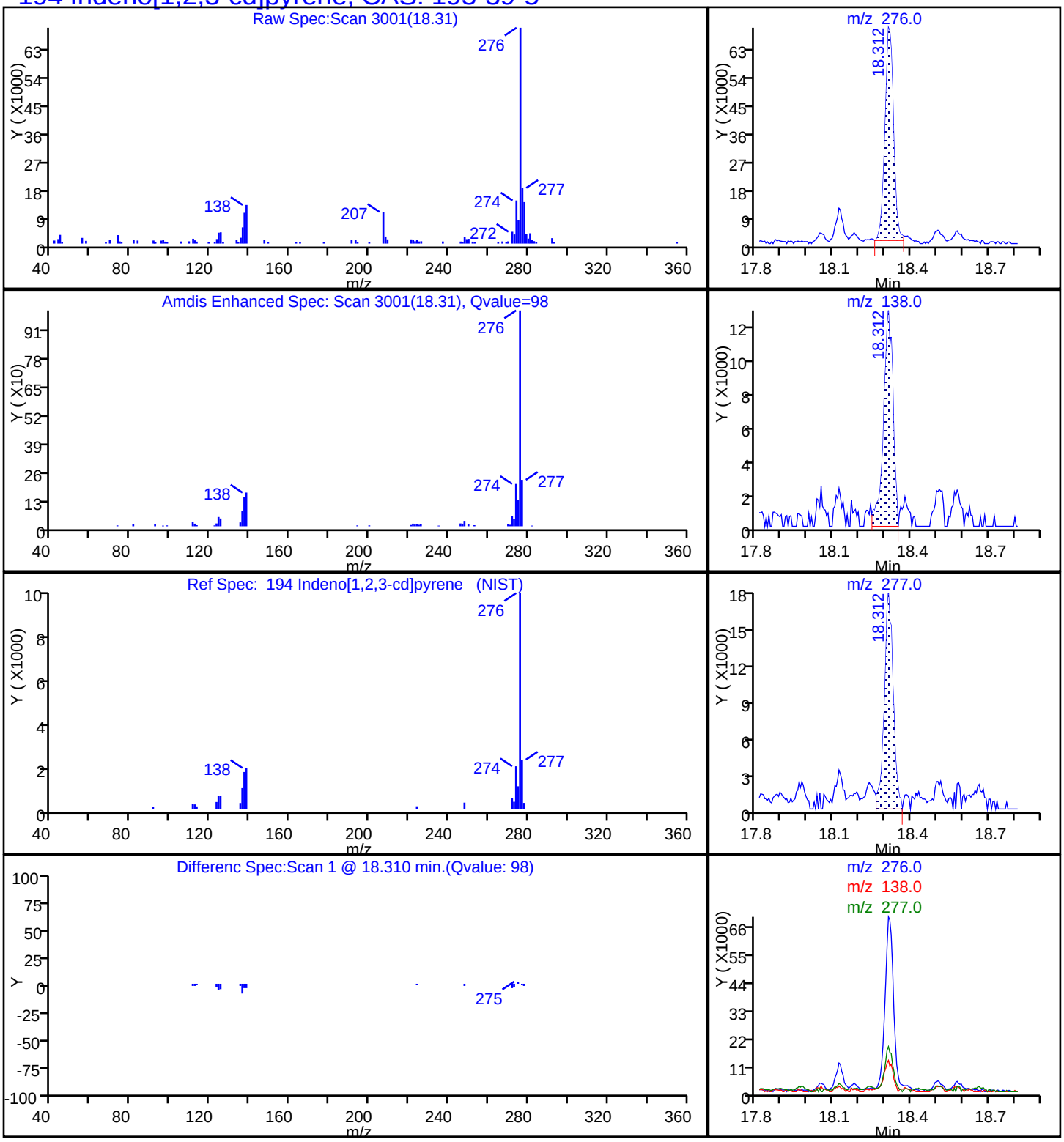
123 Fluorene, CAS: 86-73-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

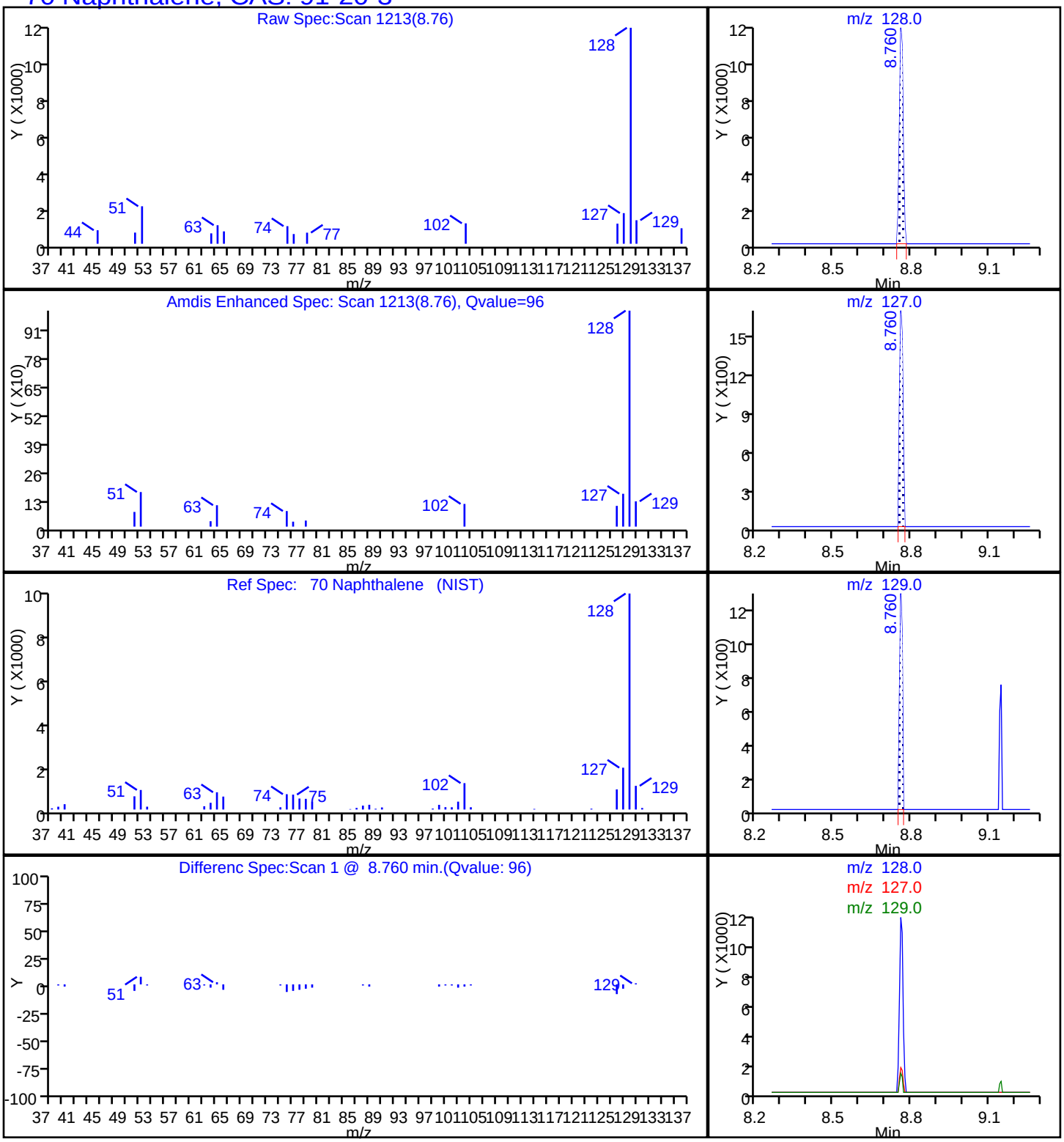
194 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

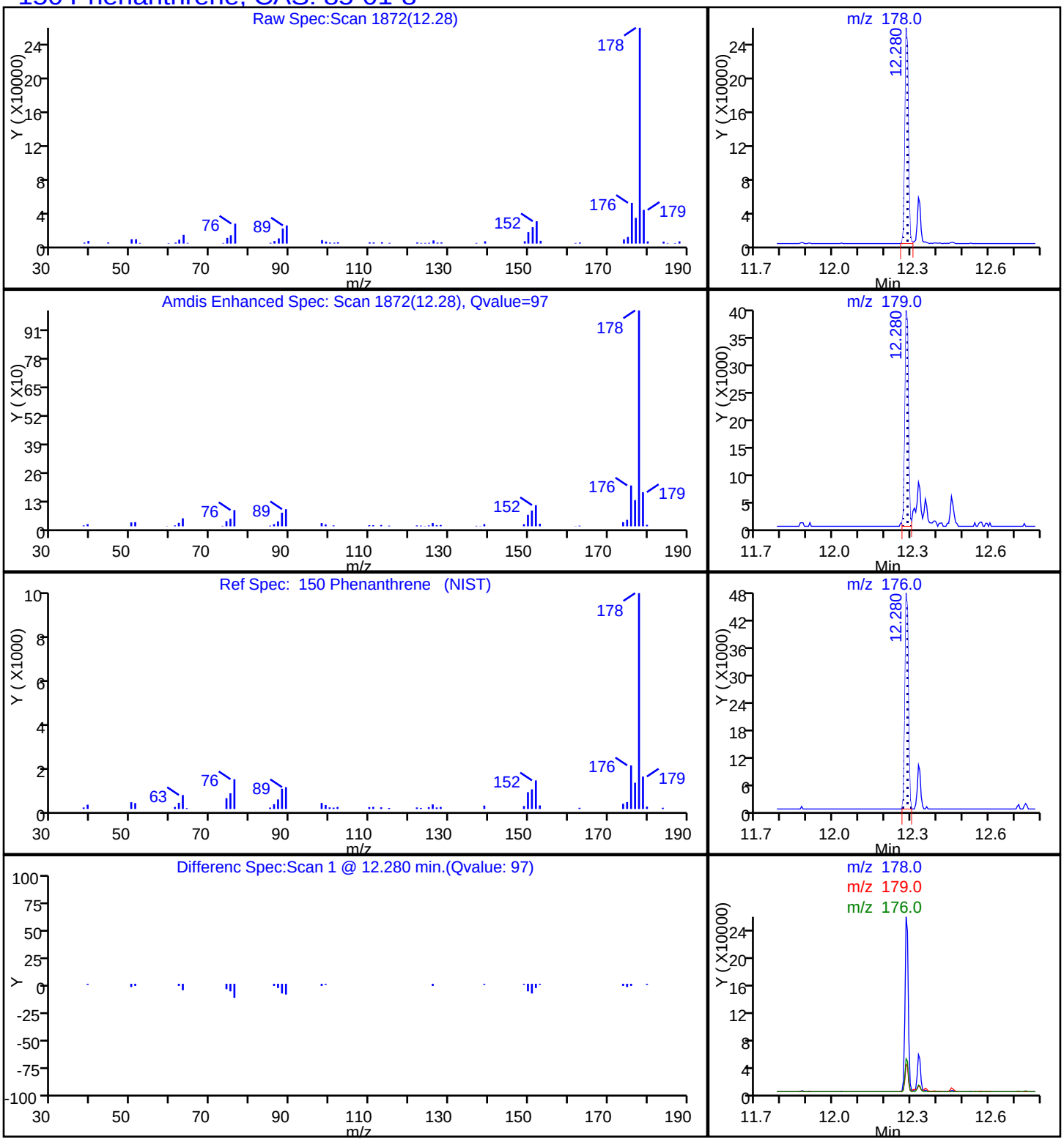
70 Naphthalene, CAS: 91-20-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

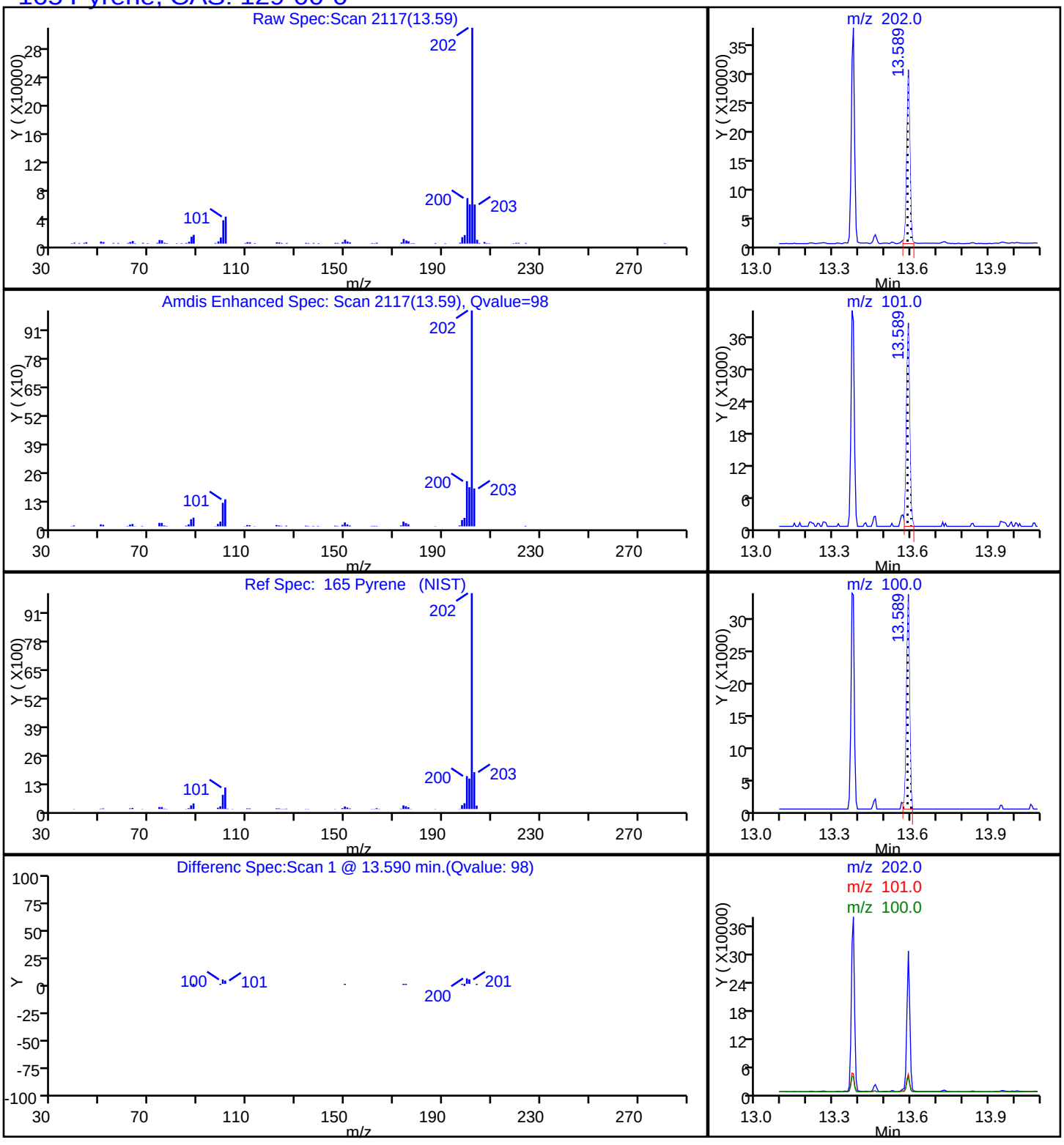
150 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

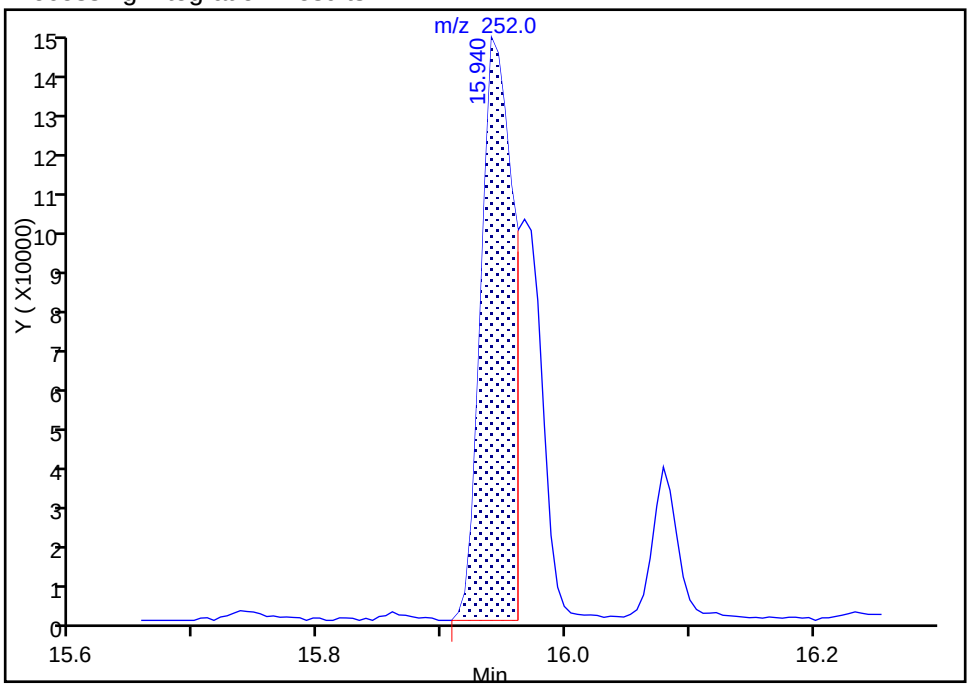
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328823.D				
Injection Date:	13-Nov-2017 19:15:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-8-A	Lab Sample ID:	480-127239-8		
Client ID:	NS-EAST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

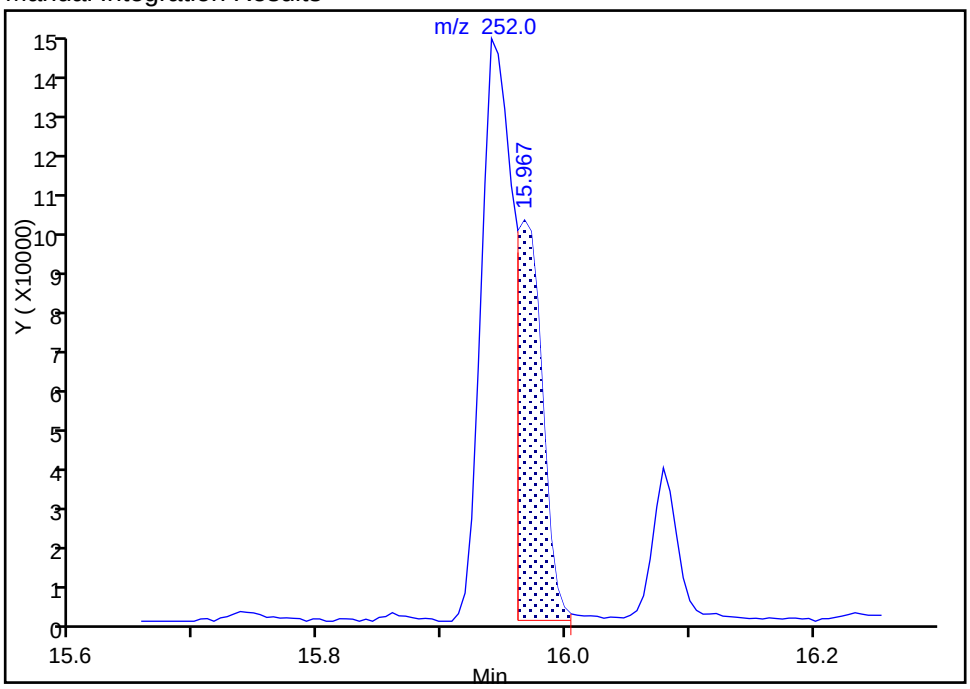
Processing Integration Results

RT: 15.94
Area: 270953
Amount: 15.010081
Amount Units: ng/uL



Manual Integration Results

RT: 15.97
Area: 149164
Amount: 8.263292
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:35:35

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" | Lab Sample ID: 480-127239-9

Matrix: Solid | Lab File ID: X207628.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.92(g) | Date Analyzed: 11/16/2017 18:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2000	300
108-60-1	bis (2-chloroisopropyl) ether	ND	F1	2000	410
95-95-4	2,4,5-Trichlorophenol	ND	F2	2000	550
88-06-2	2,4,6-Trichlorophenol	ND		2000	410
120-83-2	2,4-Dichlorophenol	ND		2000	210
105-67-9	2,4-Dimethylphenol	ND		2000	490
51-28-5	2,4-Dinitrophenol	ND		20000	9400
121-14-2	2,4-Dinitrotoluene	ND		2000	420
606-20-2	2,6-Dinitrotoluene	ND	F2	2000	240
91-58-7	2-Chloronaphthalene	ND		2000	330
95-57-8	2-Chlorophenol	ND		2000	370
91-57-6	2-Methylnaphthalene	ND		2000	410
95-48-7	2-Methylphenol	ND		2000	240
88-74-4	2-Nitroaniline	ND		3900	300
88-75-5	2-Nitrophenol	ND		2000	570
91-94-1	3,3'-Dichlorobenzidine	ND		3900	2400
99-09-2	3-Nitroaniline	ND		3900	560
534-52-1	4,6-Dinitro-2-methylphenol	ND		3900	2000
101-55-3	4-Bromophenyl phenyl ether	ND		2000	290
59-50-7	4-Chloro-3-methylphenol	ND		2000	500
106-47-8	4-Chloroaniline	ND		2000	500
7005-72-3	4-Chlorophenyl phenyl ether	ND		2000	250
106-44-5	4-Methylphenol	ND		3900	240
100-01-6	4-Nitroaniline	ND		3900	1100
100-02-7	4-Nitrophenol	ND	F1	3900	1400
83-32-9	Acenaphthene	ND		2000	300
208-96-8	Acenaphthylene	ND		2000	260
98-86-2	Acetophenone	ND		2000	270
120-12-7	Anthracene	ND		2000	500
1912-24-9	Atrazine	ND		2000	700
100-52-7	Benzaldehyde	ND		2000	1600
56-55-3	Benzo(a)anthracene	ND	F2 F1	2000	200
50-32-8	Benzo(a)pyrene	ND	F1	2000	300
205-99-2	Benzo(b)fluoranthene	ND	F1	2000	320

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" | Lab Sample ID: 480-127239-9

Matrix: Solid | Lab File ID: X207628.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.92(g) | Date Analyzed: 11/16/2017 18:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND	F1	2000	210
207-08-9	Benzo(k)fluoranthene	ND	F1	2000	260
111-91-1	Bis(2-chloroethoxy)methane	ND		2000	430
111-44-4	Bis(2-chloroethyl)ether	ND		2000	260
117-81-7	Bis(2-ethylhexyl) phthalate	ND	F1 *	2000	690
85-68-7	Butyl benzyl phthalate	ND	F2 F1 *	2000	330
105-60-2	Caprolactam	ND		2000	610
86-74-8	Carbazole	ND		2000	240
218-01-9	Chrysene	ND	F2 F1	2000	450
84-74-2	Di-n-butyl phthalate	ND		2000	350
117-84-0	Di-n-octyl phthalate	ND		2000	240
53-70-3	Dibenz(a,h)anthracene	ND		2000	360
132-64-9	Dibenzofuran	ND		2000	240
84-66-2	Diethyl phthalate	ND		2000	260
131-11-3	Dimethyl phthalate	ND		2000	240
206-44-0	Fluoranthene	ND	F2 F1	2000	210
86-73-7	Fluorene	ND		2000	240
118-74-1	Hexachlorobenzene	ND		2000	270
87-68-3	Hexachlorobutadiene	ND		2000	300
77-47-4	Hexachlorocyclopentadiene	ND		2000	270
67-72-1	Hexachloroethane	ND		2000	260
193-39-5	Indeno(1,2,3-cd)pyrene	ND	F1	2000	250
78-59-1	Isophorone	ND		2000	430
621-64-7	N-Nitrosodi-n-propylamine	ND		2000	350
86-30-6	N-Nitrosodiphenylamine	ND		2000	1600
91-20-3	Naphthalene	ND		2000	260
98-95-3	Nitrobenzene	ND		2000	230
87-86-5	Pentachlorophenol	ND		3900	2000
85-01-8	Phenanthrene	ND	F1	2000	300
108-95-2	Phenol	ND		2000	310
129-00-0	Pyrene	ND	F1	2000	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" | Lab Sample ID: 480-127239-9

Matrix: Solid | Lab File ID: X207628.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.92(g) | Date Analyzed: 11/16/2017 18:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	111		54-120
321-60-8	2-Fluorobiphenyl	79		60-120
367-12-4	2-Fluorophenol	57		52-120
4165-60-0	Nitrobenzene-d5	68		53-120
1718-51-0	p-Terphenyl-d14	70		65-121
4165-62-2	Phenol-d5	66		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207628.D
Lims ID: 480-127239-B-9-A
Client ID: NS-SOUTH-SOIL 2-12"
Sample Type: Client
Inject. Date: 16-Nov-2017 18:38:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0067330-017
Operator ID: dr Instrument ID: HP5973X

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Nov-2017 11:33:08 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: richardsd Date: 20-Nov-2017 11:19:36

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.041	5.030	0.011	96	153403	40.0	
*	2 Naphthalene-d8	136	6.617	6.606	0.011	99	509545	40.0	
*	3 Acenaphthene-d10	164	8.679	8.674	0.005	94	259698	40.0	
*	4 Phenanthrene-d10	188	10.351	10.346	0.005	99	532456	40.0	
*	5 Chrysene-d12	240	12.771	12.766	0.005	99	532867	40.0	
*	6 Perylene-d12	264	13.893	13.888	0.005	99	476242	40.0	
$	7 2-Fluorophenol	112	3.203	3.161	0.042	93	11364	2.29	
$	8 Phenol-d5	99	4.641	4.608	0.033	89	15926	2.66	
$	9 Nitrobenzene-d5	82	5.757	5.730	0.027	92	14131	2.72	
$	10 2-Fluorobiphenyl	172	7.921	7.905	0.017	98	33866	3.15	
$	11 2,4,6-Tribromophenol	330	9.598	9.593	0.005	84	4049	4.45	
$	12 p-Terphenyl-d14	244	11.890	11.879	0.011	99	44535	2.80	
	199 2-Chlorotoluene	91		-0.700				ND	
	213 Chlorobenzotrifluoride N.O	1		-0.700				ND	
	191 N-Methylaniline	1		-0.700				ND	
	204 Chlorotoluene N.O.S	1		-0.700				ND	
	211 5-Ethyl-5-phenyl barbituri	1		-0.700				ND	
	205 Lidocaine	1		-0.700				ND	
	15 1,4-Dioxane	88		1.125				ND	
	16 N-Nitrosodimethylamine	42		1.344				ND	
	17 Pyridine	52		1.376				ND	
	18 2-Picoline	93		2.382				ND	
	19 N-Nitrosomethylethylamine	88		2.558				ND	
	20 Methyl methanesulfonate	80		3.098				ND	
	21 Acrylamide	44		3.146				ND	
	24 N-Nitrosodiethylamine	102		3.712				ND	
	22 4-Chloropyridine	78		3.828				ND	
	23 3-Chloropyridine	78		3.908				ND	
	25 Ethyl methanesulfonate	79		4.187				ND	
	26 2-Chloropyridine	78		4.400				ND	
	27 Benzaldehyde	77		4.421				ND	
	29 Aniline	93		4.587				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
28 Phenol	94		4.624				ND	
31 Bis(2-chloroethyl)ether	93		4.699				ND	
32 2-Chlorophenol	128		4.742				ND	
30 Pentachloroethane	167		4.812				ND	
35 n-Decane	57		4.865				ND	
36 1,3-Dichlorobenzene	146		4.934				ND	
37 1,4-Dichlorobenzene	146		5.036				ND	
34 n,n'-Dimethylaniline	120		5.162				ND	
39 1,2-Dichlorobenzene	146		5.228				ND	
38 Benzyl alcohol	108		5.233				ND	
33 p-Fluoroaniline	111		5.259				ND	
229 Indene	115		5.346				ND	
42 2,2'-oxybis[1-chloropropan	45		5.410				ND	
40 2-Methylphenol	108		5.410				ND	
45 Acetophenone	105		5.549				ND	
47 N-Nitrosodi-n-propylamine	70		5.575				ND	
46 4-Methylphenol	108		5.618				ND	
49 4-Methylbenzenamine	106		5.629				ND	
50 Hexachloroethane	117		5.645				ND	
43 N-Nitrosopyrrolidine	100		5.683				ND	
44 N-Nitrosomorpholine	56		5.742				ND	
52 Nitrobenzene	77		5.752				ND	
48 2-Toluidine	106		5.763				ND	
51 o-Anisidine	108		5.906				ND	
53 2,6-Dichloropyridine	112		5.996				ND	
56 Isophorone	82		6.056				ND	
212 2,4-Dichlorotoluene	125		6.093				ND	
54 N-Nitrosopiperidine	114		6.100				ND	
57 2-Chloroaniline	127		6.126				ND	
58 2-Nitrophenol	139		6.147				ND	
206 1,3,5-Trichlorobenzene	180		6.211				ND	
59 2,4-Dimethylphenol	107		6.259				ND	
61 Tetraethyl lead	237		6.297				ND	
62 Bis(2-chloroethoxy)methane	93		6.361				ND	
65 2,4-Dichlorophenol	162		6.457				ND	
60 o,o',o''-Triethylphosphoro	198		6.490				ND	
64 Benzoic acid	105		6.505				ND	
67 1,2,4-Trichlorobenzene	180		6.542				ND	
69 Naphthalene	128		6.617				ND	
63 alpha,alpha-Dimethyl phene	58		6.655				ND	
299 1,3-Dibromobenzene TIC	236		6.676				ND	
41 Alpha-Terpineol	59		6.681				ND	
184 4-Chlorophenol	128		6.708				ND	
66 5-Methyl-o-Anisidine	122		6.716				ND	
71 4-Chloroaniline	127		6.719				ND	
70 2,6-Dichlorophenol	162		6.724				ND	
300 1,4-Dibromobenzene TIC	236		6.724				ND	
73 Hexachlorobutadiene	225		6.804				ND	
72 Hexachloropropene	213		6.896				ND	
78 Caprolactam	113		7.141				ND	
74 Quinoline	129		7.179				ND	
77 p-Phenylene diamine	108		7.297				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
76 N-Nitrosodi-n-butylamine	84		7.302				ND	
79 4-Chloro-3-methylphenol	107		7.349				ND	
82 2-Methylnaphthalene	142		7.450				ND	
267 2,4,5-Trichlorotoluene	159		7.466				ND	
80 Safrole, Total	162		7.532				ND	
55 Phthalic anhydride	104		7.552				ND	
83 1-Methylnaphthalene	142		7.563				ND	
84 Hexachlorocyclopentadiene	237		7.653				ND	
85 1,2,4,5-Tetrachlorobenzene	216		7.659				ND	
269 2,3-Dichlorobenzenamine	161		7.803				ND	
86 2,4,6-Trichlorophenol	196		7.814				ND	
87 2,4,5-Trichlorophenol	196		7.856				ND	
292 Isosafrole Peak 1	162		7.873				ND	
90 1,1'-Biphenyl	154		8.017				ND	
91 2-Chloronaphthalene	162		8.017				ND	
270 1,2,3,4 -Tetrachlorobenzen	216		8.033				ND	
89 Isosafrole	162		8.141				ND	
294 Isosafrole Peak 2	162		8.141				ND	
93 2-Nitroaniline	65		8.166				ND	
92 1-Chloronaphthalene	162		8.194				ND	
68 Dicyclohexylamine	138		8.279				ND	
94 1,4-Naphthoquinone	158		8.386				ND	
96 Dimethyl phthalate	163		8.412				ND	
97 1,3-Dinitrobenzene	168		8.423				ND	
99 2,6-Dinitrotoluene	165		8.460				ND	
95 1,4-Dinitrobenzene	168		8.477				ND	
100 Acenaphthylene	152		8.497				ND	
101 3-Nitroaniline	138		8.652				ND	
102 Acenaphthene	153		8.706				ND	
103 2,4-Dinitrophenol	184		8.775				ND	
107 Dibenzofuran	168		8.909				ND	
104 4-Nitrophenol	109		8.909				ND	
106 2,4-Dinitrotoluene	165		8.930				ND	
105 Pentachlorobenzene	250		9.022				ND	
110 2,3,4,6-Tetrachlorophenol	232		9.074				ND	
108 1-Naphthylamine	143		9.156				ND	
109 2,3,5,6-Tetrachlorophenol	232		9.177				ND	
112 Diethyl phthalate	149		9.245				ND	
111 2-Naphthylamine	143		9.246				ND	
138 Hexadecane	57		9.288				ND	
115 Fluorene	166		9.304				ND	
116 4-Chlorophenyl phenyl ethe	204		9.336				ND	
118 4-Nitroaniline	138		9.363				ND	
119 4,6-Dinitro-2-methylphenol	198		9.406				ND	
114 Thionazin	97		9.465				ND	
120 N-Nitrosodiphenylamine	169		9.480				ND	
121 Diphenylamine	169		9.480				ND	
117 N-Nitro-o-toluidine	152		9.492				ND	
122 Azobenzene	77		9.513				ND	
123 1,2-Diphenylhydrazine	77		9.513				ND	
81 Tributyl phosphate	99		9.523				ND	
124 Sulfotepp	322		9.845				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
130 4-Bromophenyl phenyl ether	248		9.892				ND	
131 Hexachlorobenzene	284		9.945				ND	
125 1,3,5-Trinitrobenzene	213		9.957				ND	
295 Diallate Peak 1	43		9.962				ND	
127 Diallate	43		9.962				ND	
128 Phorate	75		9.968				ND	
129 Phenacetin	108		10.010				ND	
297 Diallate Peak 2	43		10.053				ND	
88 Simazine	201		10.079				ND	
133 Atrazine	200		10.116				ND	
132 Dimethoate	87		10.149				ND	
134 Pentachlorophenol	266		10.170				ND	
135 4-Aminobiphenyl	169		10.315				ND	
136 Pentachloronitrobenzene	237		10.320				ND	
113 n-Octadecane	57		10.330				ND	
141 Phenanthrene	178		10.367				ND	
137 Pronamide	173		10.411				ND	
142 Anthracene	178		10.421				ND	
140 Disulfoton	88		10.523				ND	
139 Dinoseb	211		10.523				ND	
143 Carbazole	167		10.602				ND	
98 Alachlor	160		10.779				ND	
144 Methyl parathion	109		10.892				ND	
271 2-Methylanthracene	192		10.966				ND	
145 Di-n-butyl phthalate	149		10.992				ND	
148 Anthraquinone	180		11.169				ND	
147 4-Nitroquinoline-1-oxide	190		11.271				ND	
146 Ethyl Parathion	97		11.271				ND	
149 Methapyrilene	58		11.367				ND	
151 Isodrin	193		11.506				ND	
152 Fluoranthene	202		11.516				ND	
153 1-Hydroxyanthraquinone	224		11.564				ND	
150 Octachlorostyrene	308		11.564				ND	
154 Benzidine	184		11.660				ND	
155 Pyrene	202		11.714				ND	
157 1,4-Dihydroxyanthraquinone	240		11.975				ND	
293 Aramite Peak 1	185		12.008				ND	
296 Aramite Peak 2	185		12.072				ND	
156 Aramite, Total	185		12.072				ND	
158 p-Dimethylamino azobenzene	120		12.131				ND	
159 Chlorobenzilate	139		12.179				ND	
160 Famphur	218		12.269				ND	
162 Butyl benzyl phthalate	149		12.323				ND	
126 Kepone	272		12.323				ND	
163 9-Octadecenamide	72		12.349				ND	
161 3,3'-Dimethylbenzidine	212		12.425				ND	
164 2-Acetylaminofluorene	181		12.639				ND	
166 3,3'-Dichlorobenzidine	252		12.745				ND	
167 Benzo[a]anthracene	228		12.750				ND	
169 Chrysene	228		12.782				ND	
172 Bis(2-ethylhexyl) phthalat	149		12.814				ND	
165 4,4'-Methylene bis(2-chlor	231		12.874				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
170 6-Methylchrysene	242		13.280				ND	
168 Di-n-octyl phthalate	149		13.322				ND	
174 Benzo[b]fluoranthene	252		13.599				ND	
175 Benzo[k]fluoranthene	252		13.621				ND	
173 7,12-Dimethylbenz(a)anthra	256		13.729				ND	
268 Benzo[e]pyrene	252		13.840				ND	
177 Benzo[a]pyrene	252		13.840				ND	
178 3-Methylcholanthrene	252		14.220				ND	
176 Hexachlorophene	196		14.501				ND	
179 Dibenz[a,h]acridine	279		14.621				ND	
180 Indeno[1,2,3-cd]pyrene	276		14.636				ND	
181 Dibenz(a,h)anthracene	278		14.646				ND	
182 Benzo[g,h,i]perylene	276		14.839				ND	
183 Dibenzo[a,e]pyrene	302		19.913				ND	
217 1-Bromopropane	1		-0.700				ND	
215 1-Methylcyclopentanol	1		-0.700				ND	
275 1,2,3-Trimethylbenzene	105		-0.700				ND	
225 2,4-Toluene diamine	1		-0.700				ND	
278 Photomirex TIC	1		-0.700				ND	
223 2-Chlorobenzotrifluoride	1		-0.700				ND	
221 CBF-500	1		-0.700				ND	
195 Phenylacetic Acid	1		-0.700				ND	
287 2,6-Dichlorotoluene TIC	1		-0.700				ND	
219 alpha,alpha-Dimethyl phene	1		-0.700				ND	
208 n,n'-Dimethylacetamide	1		-0.700				ND	
216 4-Chlorobenzotrifluoride	1		-0.700				ND	
291 3-Chlorobenzotrifluoride T	1		-0.700				ND	
185 Phenylmercaptan	110		-0.700				ND	
200 Dibenzo[a,h]pyrene	1		-0.700				ND	
188 CAG-800	1		-0.700				ND	
272 Benzophenone	1		-0.700				ND	
194 CN-500	1		-0.700				ND	
224 CBF-400	1		-0.700				ND	
209 7H-Dibenzo[c,g]carbazole	1		-0.700				ND	
298 2-Aminopyridine TIC	1		-0.700				ND	
274 Phenyl ether	1		-0.700				ND	
193 Dibenz(a,i)pyrene	1		-0.700				ND	
186 Dibenz[a,j]acridine	279		-0.700				ND	
201 2,3-Dichlorophenol	1		-0.700				ND	
273 4-tert-Octylphenol	1		-0.700				ND	
202 4-Chlorotoluene	91		-0.700				ND	
289 2-Chlorobenzotrifluoride T	1		-0.700				ND	
277 1,4-Dioxane TIC	1		-0.700				ND	
196 CU-600	1		-0.700				ND	
210 3-Chlorotoluene	1		-0.700				ND	
207 3-Chlorobenzotrifluoride	1		-0.700				ND	
290 2,4-Dichlorotoluene TIC	1		-0.700				ND	
190 Benzeneacetonitrile	1		-0.700				ND	
192 NVF-400	1		-0.700				ND	
203 Pendimethalin	1		-0.700				ND	
276 4-Chloro-3-nitro-alpha,alp	1		-0.700				ND	
S 236 3 & 4 Methylphenol	108		-0.700				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
S 239 EPH Adjustment 1	1		-0.700				ND	
S 238 3-Methylphenol	1		-0.700				ND	
S 237 Total Cresols	1		-0.700				ND	
T 306 Fluorobenzene TIC	96		0.976				ND	
T 311 1-Bromo-2-chloroethane TIC	63		1.328				ND	
T 301 Ethylene Dibromide TIC	107		2.194				ND	
T 288 4-Chlorobenzotrifluoride T	180		2.942				ND	
T 308 1-Bromo-3-fluorobenzene TI	95		3.855				ND	
T 304 4-Bromofluorobenzene TIC	174		4.026				ND	
T 305 1,2-dichloro-4-(trifluorom	214		4.865				ND	
T 307 2-Bromopyridine TIC	78		5.169				ND	
T 245 2,4-Xylidine TIC	121		5.300				ND	
T 242 5-Methyl-o-Anisidine TIC	122		5.300				ND	
T 240 o-Anisidine TIC	108		5.300				ND	
T 243 Tris(2,3-dibromopropyl)pho	201		5.300				ND	
T 241 1,3-phenylenediamine TIC	108		5.300				ND	
T 244 4,4'-Methylene bis(2-chlor	231		5.300				ND	
T 309 1-Bromo-4-ethylbenzene TIC	169		6.291				ND	
T 302 3-Nitro-4-Chlorobenzotrifl	179		6.382				ND	
T 310 3-Amino-4-Chlorobenzotrifl	195		6.414				ND	
T 248 Tetramethyl lead TIC	253		7.300				ND	
T 250 Pendimethalin (TIC)	252		7.300				ND	
T 246 Benefin (TIC)	292		7.300				ND	
T 247 Benzeneacetic acid (TIC)	91		7.300				ND	
T 251 Prometryn (TIC)	241		7.300				ND	
T 303 3'-Bromoacetophenone TIC	183		7.643				ND	
T 252 1-Methylnaphthalene (TIC)	142		7.773				ND	
T 249 trans Azobenzene (TIC)	77		9.835				ND	
T 253 Hexamethyldisiloxane TIC	147		2.300				ND	
T 254 2,3,7,8-TCDD	322		7.300				ND	

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

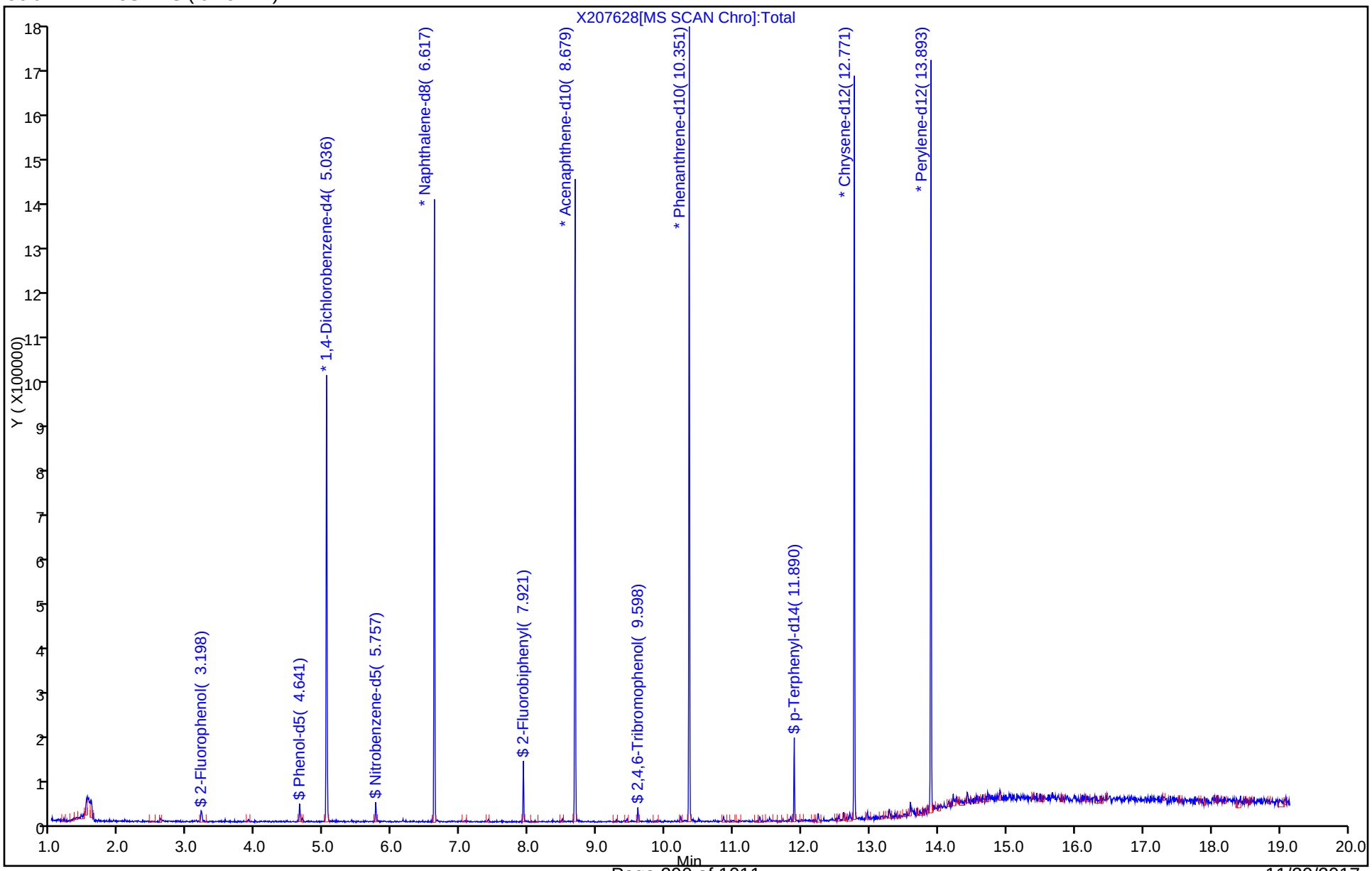
Report Date: 20-Nov-2017 11:33:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207628.D

Injection Date:	16-Nov-2017 18:38:30	Instrument ID:	HP5973X	Operator ID:	dr
Lims ID:	480-127239-B-9-A	Lab Sample ID:	480-127239-9	Worklist Smp#:	17
Client ID:	NS-SOUTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	17
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 2-12" | Lab Sample ID: 480-127239-10

Matrix: Solid | Lab File ID: U328824.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.77(g) | Date Analyzed: 11/13/2017 19:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4000	580
108-60-1	bis (2-chloroisopropyl) ether	ND		4000	790
95-95-4	2,4,5-Trichlorophenol	ND		4000	1100
88-06-2	2,4,6-Trichlorophenol	ND		4000	790
120-83-2	2,4-Dichlorophenol	ND		4000	420
105-67-9	2,4-Dimethylphenol	ND		4000	960
51-28-5	2,4-Dinitrophenol	ND		39000	18000
121-14-2	2,4-Dinitrotoluene	ND		4000	820
606-20-2	2,6-Dinitrotoluene	ND		4000	470
91-58-7	2-Chloronaphthalene	ND		4000	650
95-57-8	2-Chlorophenol	ND		4000	720
91-57-6	2-Methylnaphthalene	ND		4000	790
95-48-7	2-Methylphenol	ND		4000	470
88-74-4	2-Nitroaniline	ND		7700	580
88-75-5	2-Nitrophenol	ND		4000	1100
91-94-1	3,3'-Dichlorobenzidine	ND		7700	4700
99-09-2	3-Nitroaniline	ND		7700	1100
534-52-1	4,6-Dinitro-2-methylphenol	ND		7700	4000
101-55-3	4-Bromophenyl phenyl ether	ND		4000	560
59-50-7	4-Chloro-3-methylphenol	ND		4000	980
106-47-8	4-Chloroaniline	ND		4000	980
7005-72-3	4-Chlorophenyl phenyl ether	ND		4000	490
106-44-5	4-Methylphenol	ND		7700	470
100-01-6	4-Nitroaniline	ND		7700	2100
100-02-7	4-Nitrophenol	ND		7700	2800
83-32-9	Acenaphthene	ND		4000	580
208-96-8	Acenaphthylene	ND		4000	510
98-86-2	Acetophenone	ND		4000	540
120-12-7	Anthracene	ND		4000	980
1912-24-9	Atrazine	ND		4000	1400
100-52-7	Benzaldehyde	ND		4000	3100
56-55-3	Benzo(a)anthracene	2300	J	4000	400
50-32-8	Benzo(a)pyrene	2400	J	4000	580
205-99-2	Benzo(b)fluoranthene	3200	J	4000	630

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 2-12" | Lab Sample ID: 480-127239-10

Matrix: Solid | Lab File ID: U328824.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.77(g) | Date Analyzed: 11/13/2017 19:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	2000	J	4000	420
207-08-9	Benzo(k)fluoranthene	1000	J	4000	510
111-91-1	Bis(2-chloroethoxy)methane	ND		4000	840
111-44-4	Bis(2-chloroethyl)ether	ND		4000	510
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4000	1400
85-68-7	Butyl benzyl phthalate	ND		4000	650
105-60-2	Caprolactam	ND		4000	1200
86-74-8	Carbazole	ND		4000	470
218-01-9	Chrysene	2400	J	4000	890
84-74-2	Di-n-butyl phthalate	ND		4000	680
117-84-0	Di-n-octyl phthalate	ND		4000	470
53-70-3	Dibenz(a,h)anthracene	ND		4000	700
132-64-9	Dibenzofuran	ND		4000	470
84-66-2	Diethyl phthalate	ND		4000	510
131-11-3	Dimethyl phthalate	ND		4000	470
206-44-0	Fluoranthene	4500		4000	420
86-73-7	Fluorene	ND		4000	470
118-74-1	Hexachlorobenzene	ND		4000	540
87-68-3	Hexachlorobutadiene	ND		4000	580
77-47-4	Hexachlorocyclopentadiene	ND		4000	540
67-72-1	Hexachloroethane	ND		4000	510
193-39-5	Indeno(1,2,3-cd)pyrene	1700	J	4000	490
78-59-1	Isophorone	ND		4000	840
621-64-7	N-Nitrosodi-n-propylamine	ND		4000	680
86-30-6	N-Nitrosodiphenylamine	ND		4000	3200
91-20-3	Naphthalene	ND		4000	510
98-95-3	Nitrobenzene	ND		4000	440
87-86-5	Pentachlorophenol	ND		7700	4000
85-01-8	Phenanthrene	3500	J	4000	580
108-95-2	Phenol	ND		4000	610
129-00-0	Pyrene	4100		4000	470

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 2-12" | Lab Sample ID: 480-127239-10

Matrix: Solid | Lab File ID: U328824.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:50

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.77(g) | Date Analyzed: 11/13/2017 19:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387056 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	X	54-120
321-60-8	2-Fluorobiphenyl	86		60-120
367-12-4	2-Fluorophenol	64		52-120
4165-60-0	Nitrobenzene-d5	72		53-120
1718-51-0	p-Terphenyl-d14	95		65-121
4165-62-2	Phenol-d5	78		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D
Lims ID: 480-127239-A-10-A
Client ID: NS-WEST-SOIL 2-12"
Sample Type: Client
Inject. Date: 13-Nov-2017 19:42:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 480-0067222-013
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 14-Nov-2017 11:42:47 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: richardsd Date: 14-Nov-2017 11:42:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	97	93238	40.0	
* 2 Naphthalene-d8	136	8.733	8.739	-0.006	99	341101	40.0	
* 3 Acenaphthene-d10	164	10.763	10.769	-0.006	98	173923	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	98	334708	40.0	
* 5 Chrysene-d12	240	14.706	14.711	-0.005	96	468267	40.0	
* 6 Perylene-d12	264	16.485	16.485	0.000	99	561497	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	93	3969	1.27	
$ 8 Phenol-d5	99	6.730	6.730	0.000	75	5977	1.56	
$ 9 Nitrobenzene-d5	82	7.862	7.862	0.000	90	5373	1.45	
$ 10 2-Fluorobiphenyl	172	9.983	9.983	0.000	97	11605	1.71	
$ 11 2,4,6-Tribromophenol	330		11.581				ND	
$ 12 p-Terphenyl-d14	244	13.669	13.669	0.000	99	16004	1.90	
32 Benzaldehyde	77		6.703				ND	
33 Phenol	94		6.751				ND	
35 Bis(2-chloroethyl)ether	93		6.869				ND	
37 2-Chlorophenol	128		6.981				ND	
43 2-Methylphenol	108		7.467				ND	
44 2,2'-oxybis[1-chloropropan	45		7.504				ND	
46 4-Methylphenol	108		7.638				ND	
47 N-Nitrosodi-n-propylamine	70		7.654				ND	
49 Acetophenone	105		7.675				ND	
53 Hexachloroethane	117		7.846				ND	
54 Nitrobenzene	77		7.884				ND	
56 Isophorone	82		8.156				ND	
59 2-Nitrophenol	139		8.268				ND	
60 2,4-Dimethylphenol	107		8.274				ND	
62 Bis(2-chloroethoxy)methane	93		8.381				ND	
67 2,4-Dichlorophenol	162		8.546				ND	
70 Naphthalene	128		8.760				ND	
72 4-Chloroaniline	127		8.792				ND	
74 Hexachlorobutadiene	225		8.904				ND	
76 Caprolactam	113		9.171				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		9.337				ND	
83 2-Methylnaphthalene	142		9.577				ND	
86 Hexachlorocyclopentadiene	237		9.775				ND	
89 2,4,6-Trichlorophenol	196		9.898				ND	
91 2,4,5-Trichlorophenol	196		9.941				ND	
94 1,1'-Biphenyl	154		10.106				ND	
95 2-Chloronaphthalene	162		10.149				ND	
98 2-Nitroaniline	65		10.234				ND	
102 Dimethyl phthalate	163		10.411				ND	
104 2,6-Dinitrotoluene	165		10.485				ND	
105 Acenaphthylene	152		10.614				ND	
106 3-Nitroaniline	138		10.683				ND	
107 2,4-Dinitrophenol	184		10.790				ND	
108 Acenaphthene	153		10.801				ND	
109 4-Nitrophenol	109		10.833				ND	
111 2,4-Dinitrotoluene	165		10.929				ND	
112 Dibenzofuran	168		10.982				ND	
118 Diethyl phthalate	149		11.153				ND	
121 4-Chlorophenyl phenyl ethe	204		11.308				ND	
122 4-Nitroaniline	138		11.324				ND	
123 Fluorene	166		11.335				ND	
125 4,6-Dinitro-2-methylphenol	198		11.356				ND	
127 N-Nitrosodiphenylamine	169		11.420				ND	
137 4-Bromophenyl phenyl ether	248		11.800				ND	
139 Hexachlorobenzene	284		11.901				ND	
141 Atrazine	200		11.912				ND	
143 Pentachlorophenol	266		12.072				ND	
150 Phenanthrene	178	12.280	12.286	-0.006	95	43132	4.47	
151 Anthracene	178	12.329	12.329	0.001	97	9914	0.99	
152 Carbazole	167	12.457	12.457	0.000	94	5121	0.5804	
155 Di-n-butyl phthalate	149		12.708				ND	
162 Fluoranthene	202	13.376	13.376	0.000	97	64717	5.85	
165 Pyrene	202	13.589	13.589	0.000	98	55084	5.26	
172 Butyl benzyl phthalate	149		14.059				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.551				ND	
179 3,3'-Dichlorobenzidine	252		14.615				ND	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	95	40448	3.01	
182 Chrysene	228	14.733	14.738	-0.005	95	39854	3.07	
183 Di-n-octyl phthalate	149		15.208				ND	
185 Benzo[b]fluoranthene	252	15.940	15.940	0.000	96	68753	4.18	
187 Benzo[k]fluoranthene	252	15.972	15.977	-0.005	98	22261	1.32	M
190 Benzo[a]pyrene	252	16.405	16.410	-0.005	76	48945	3.06	
193 Dibenz(a,h)anthracene	278		18.306				ND	
194 Indeno[1,2,3-cd]pyrene	276	18.312	18.317	-0.005	97	39579	2.22	
195 Benzo[g,h,i]perylene	276	18.884	18.894	-0.010	98	37147	2.63	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

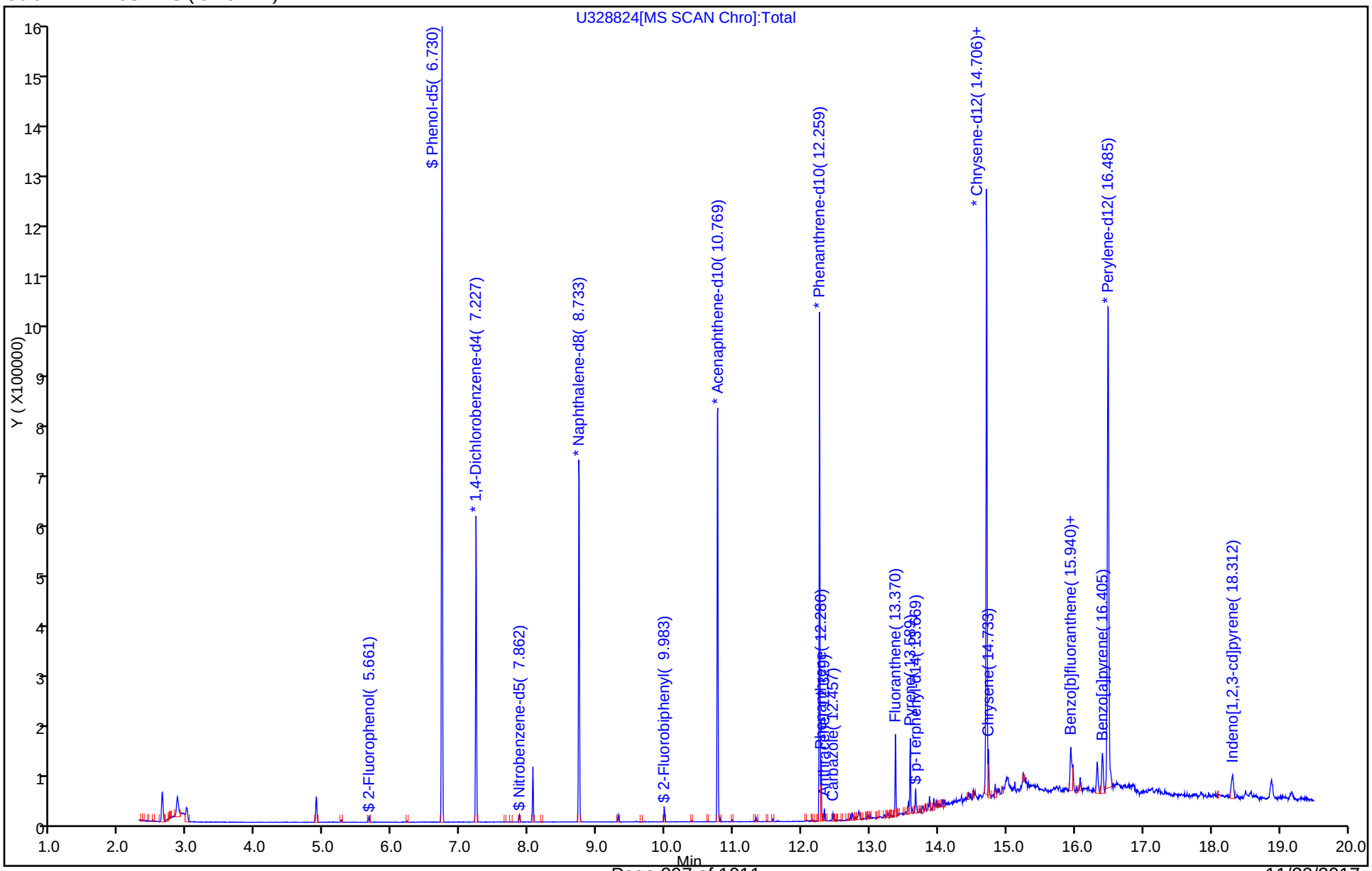
Report Date: 14-Nov-2017 11:50:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D

Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10	Worklist Smp#:	13
Client ID:	NS-WEST-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	13
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

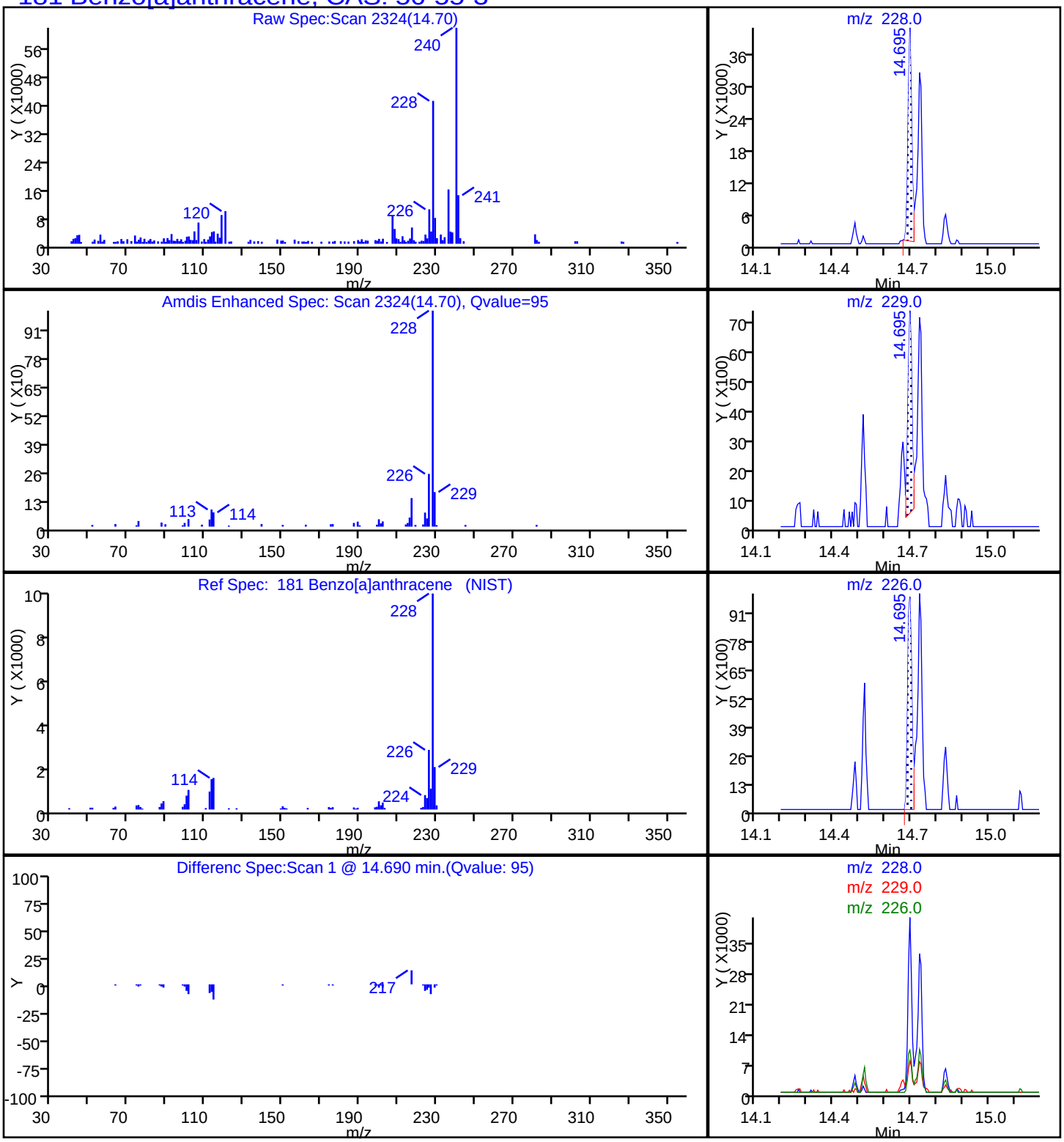
Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D				
Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

181 Benzo[a]anthracene, CAS: 56-55-3



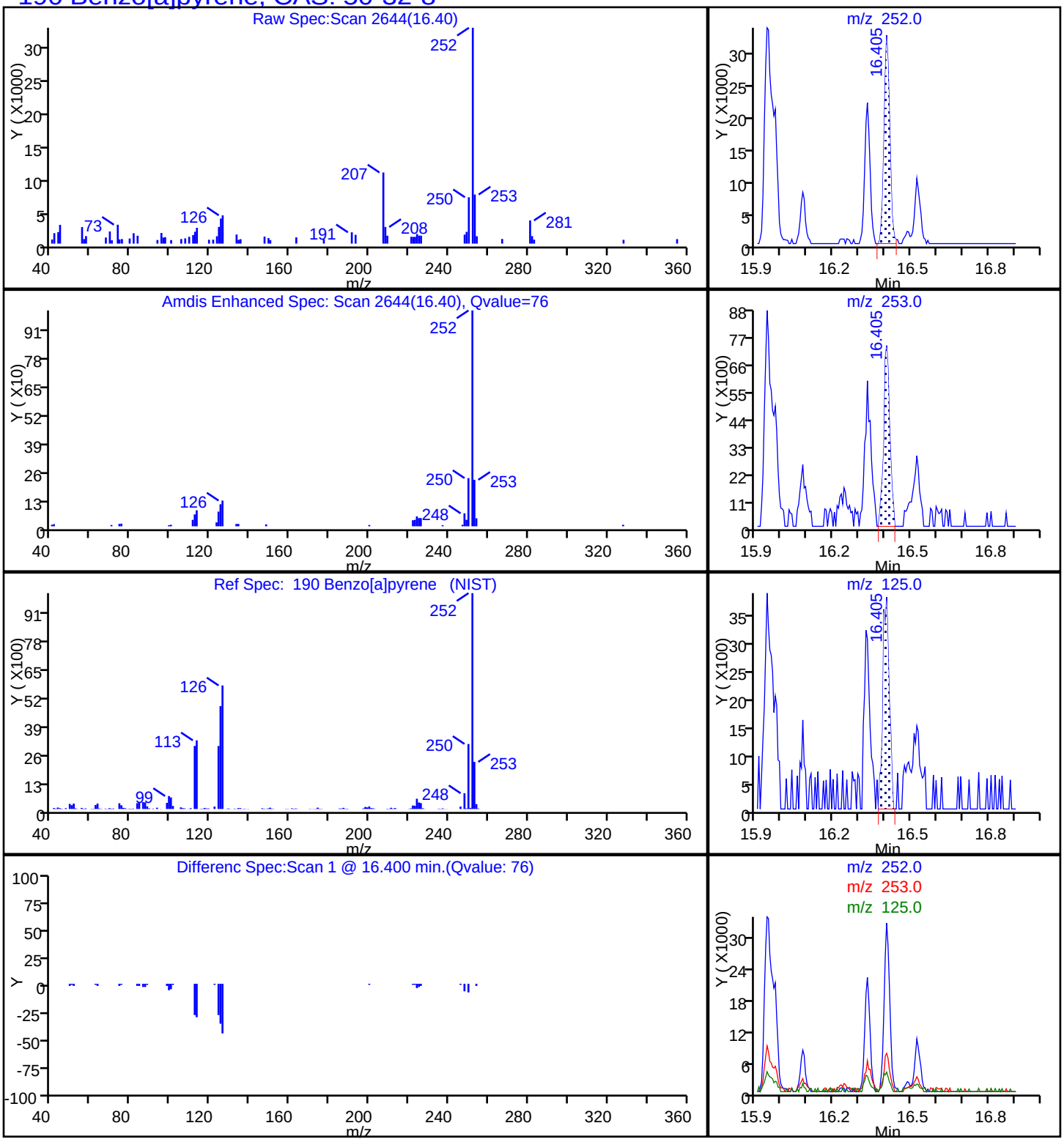
Report Date: 14-Nov-2017 11:50:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D

Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

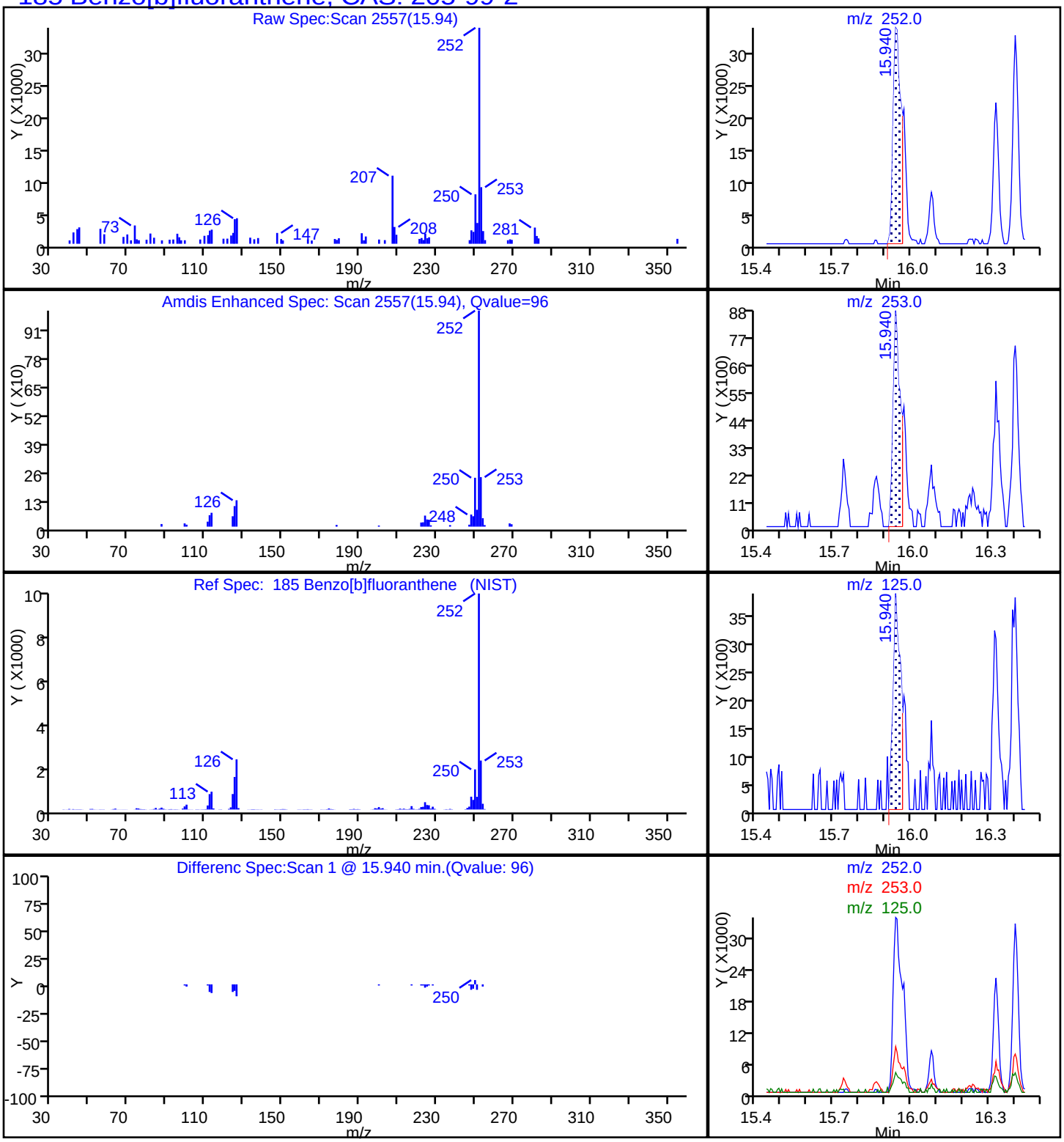
190 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D				
Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

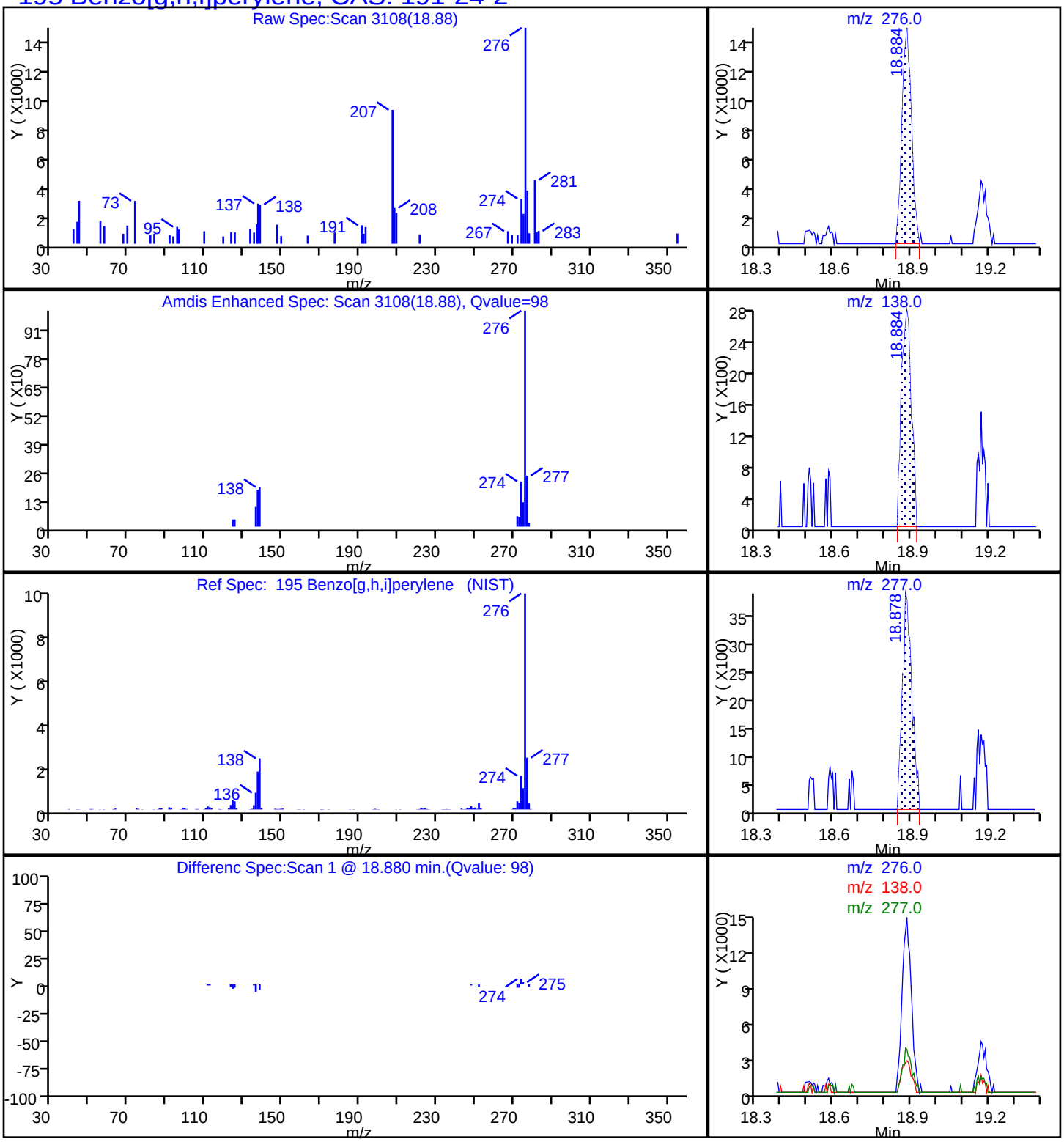
185 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D				
Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



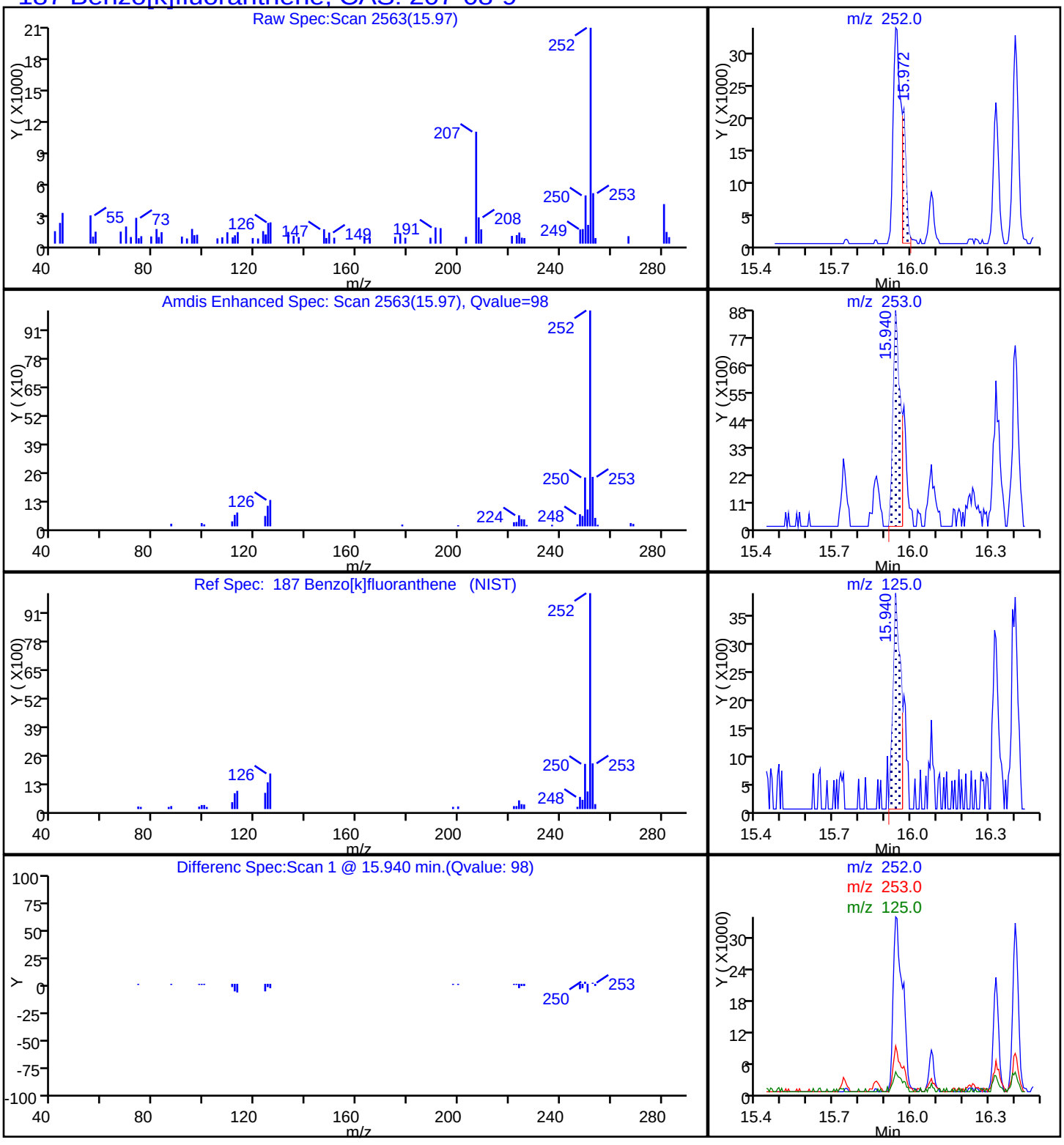
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D

Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

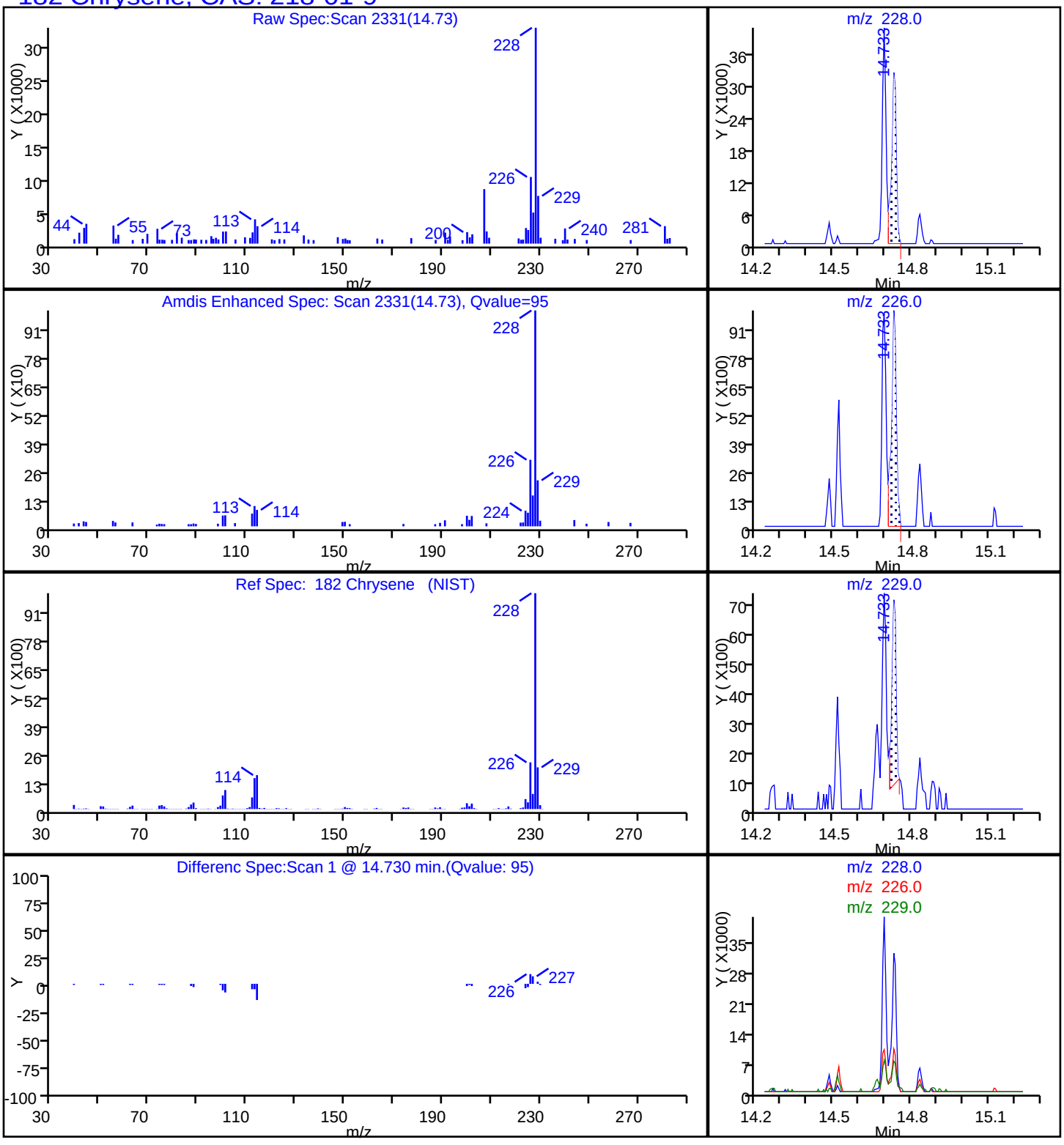
187 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D				
Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

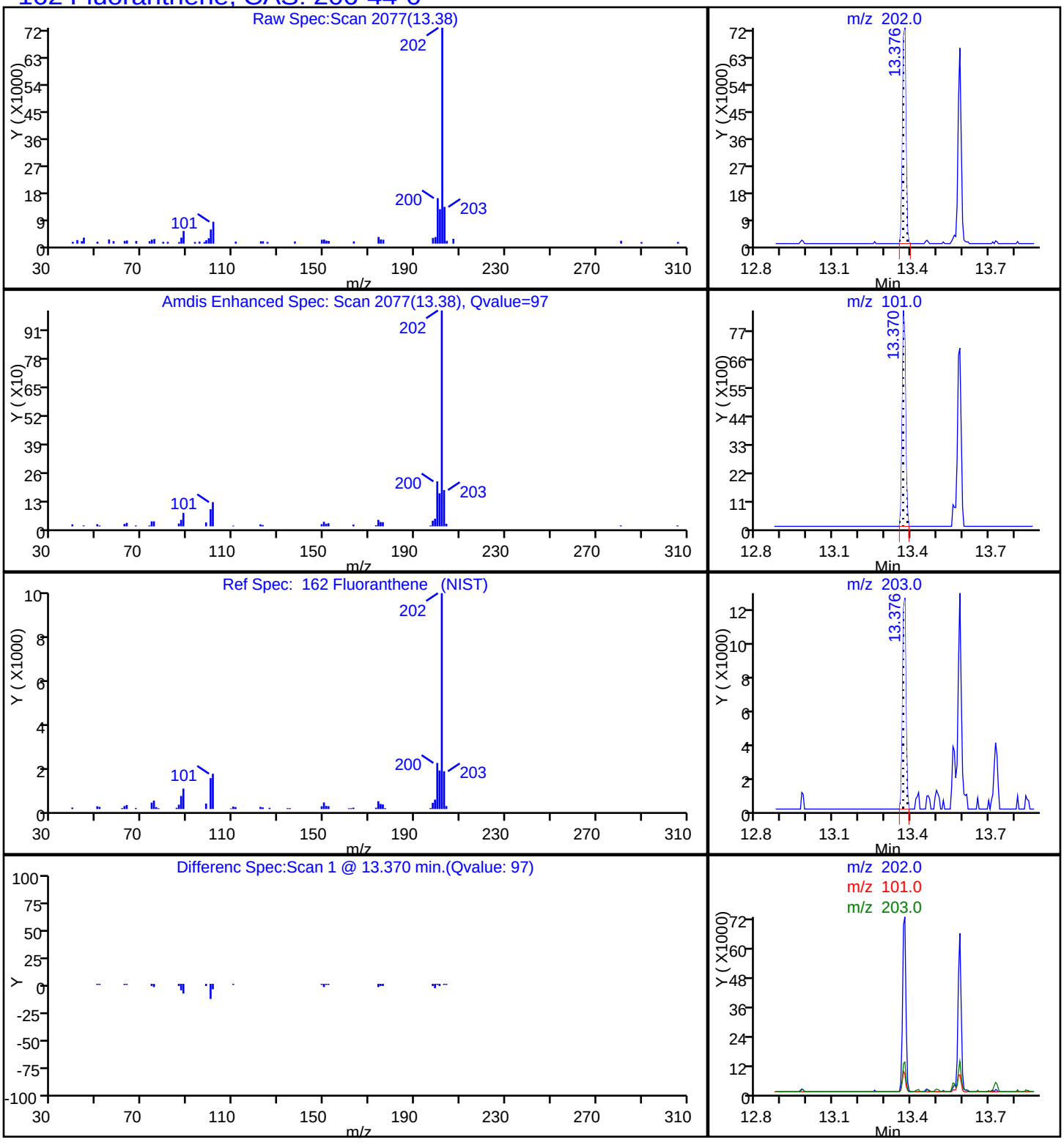
182 Chrysene, CAS: 218-01-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D				
Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

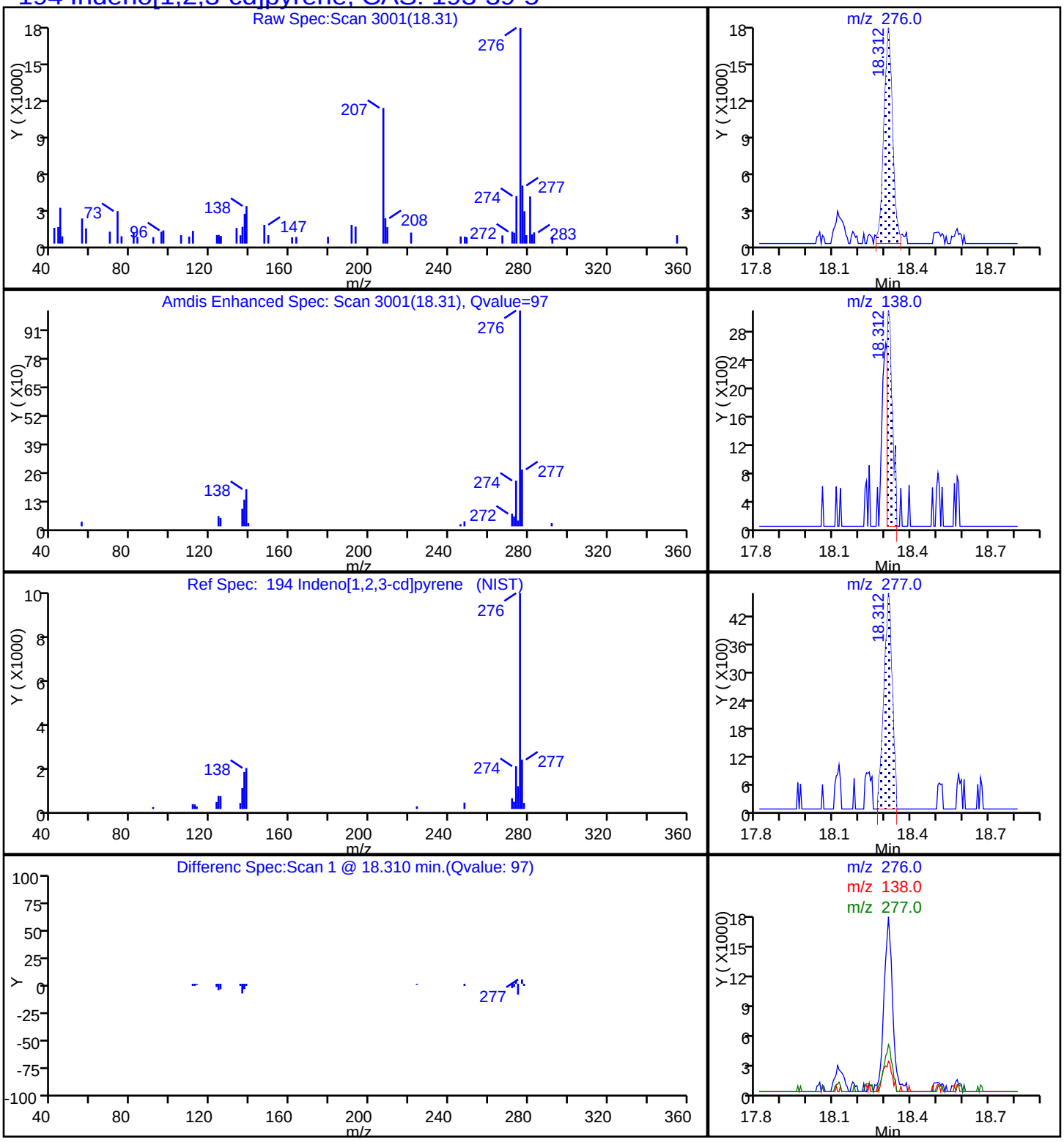
162 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D				
Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

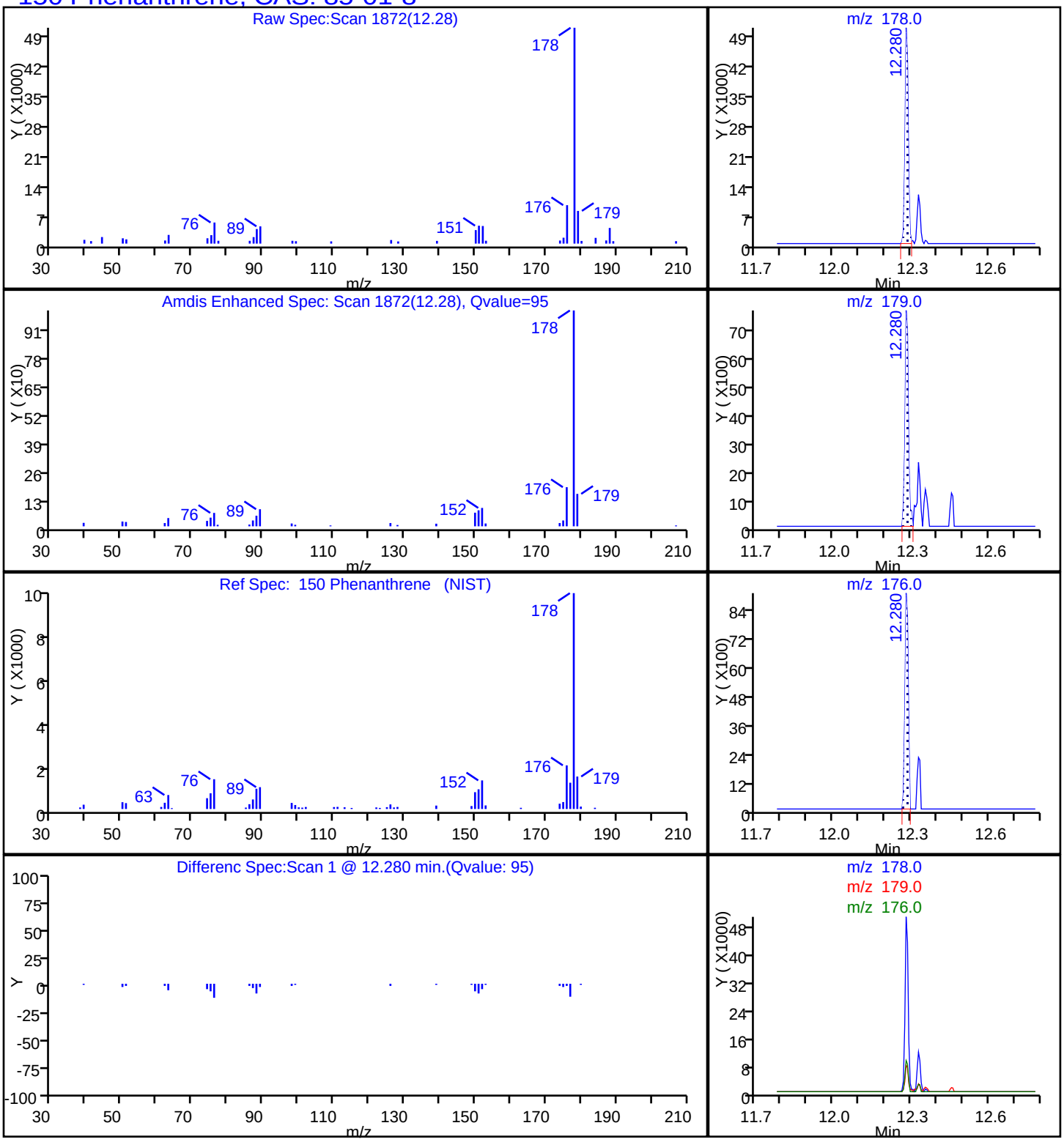
194 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D				
Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

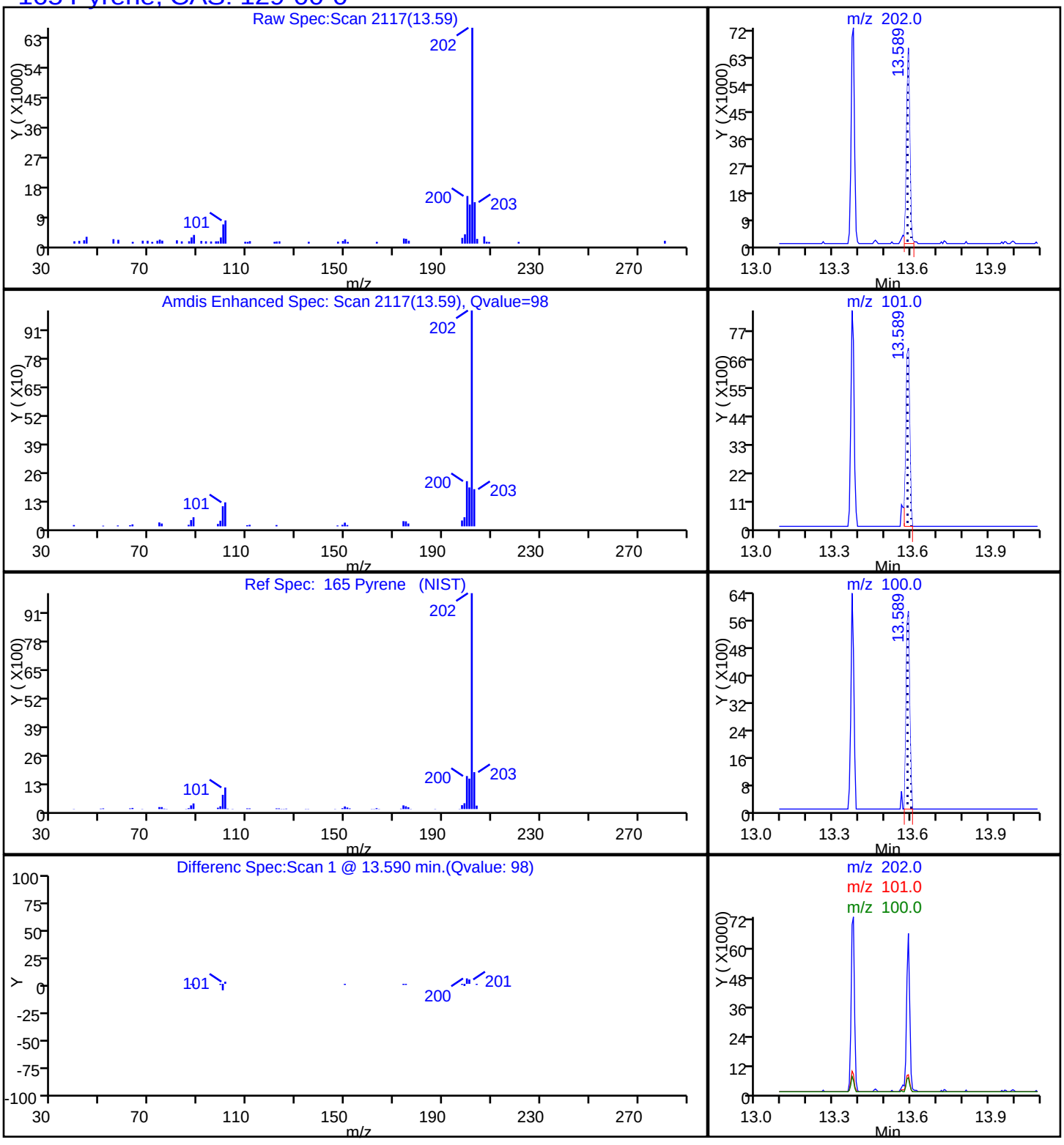
150 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328824.D				
Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

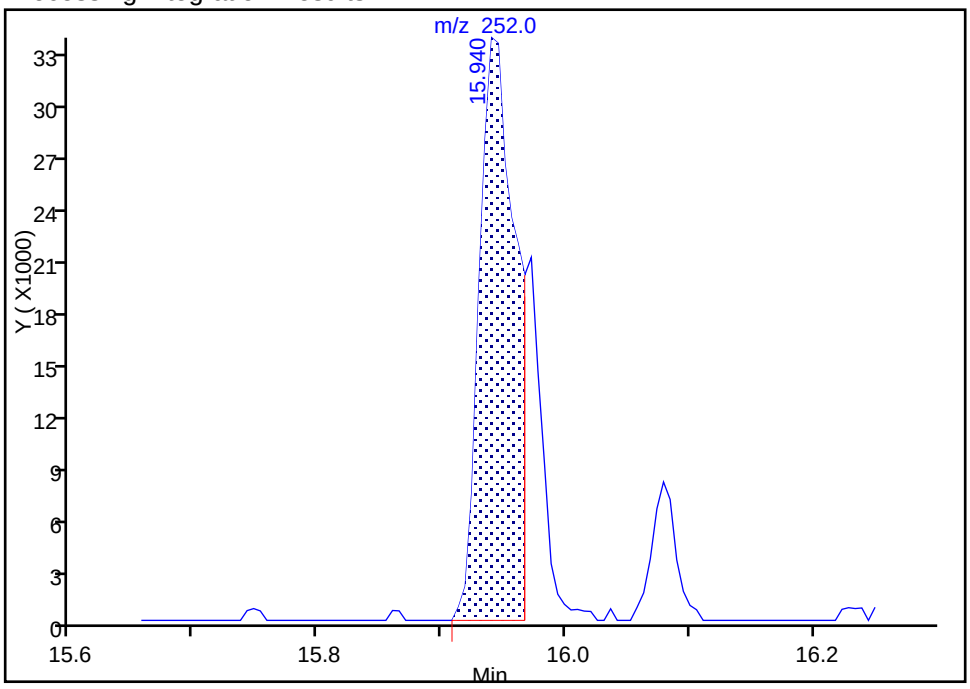
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Injection Date:	13-Nov-2017 19:42:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-10-A	Lab Sample ID:	480-127239-10		
Client ID:	NS-WEST-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

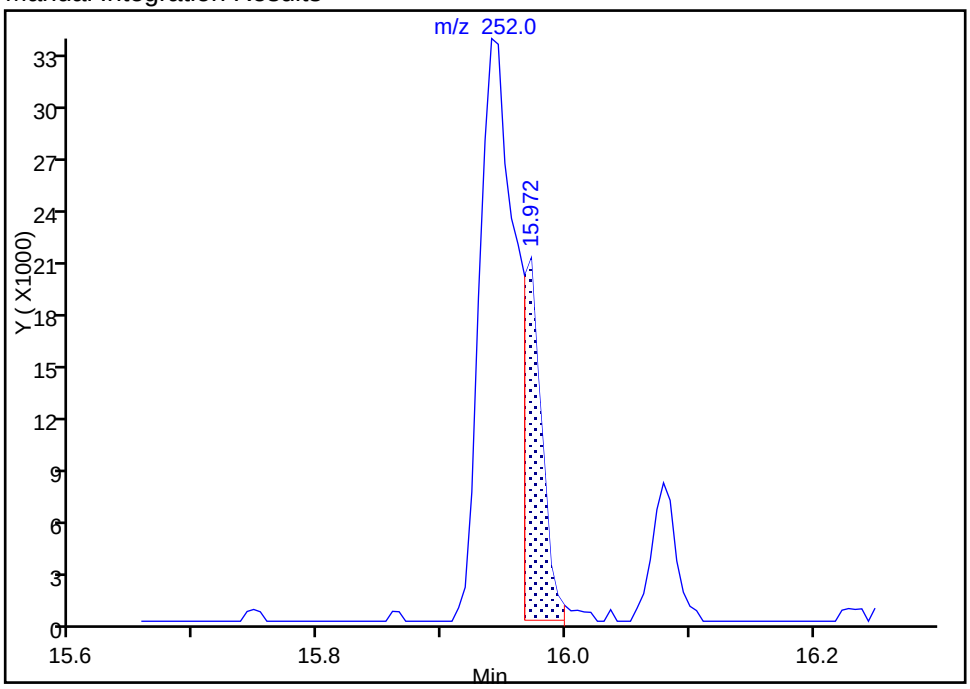
Processing Integration Results

RT: 15.94
Area: 68753
Amount: 4.070877
Amount Units: ng/uL



Manual Integration Results

RT: 15.97
Area: 22261
Amount: 1.318078
Amount Units: ng/uL



Reviewer: richardsd, 14-Nov-2017 11:42:33

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 2-12" | Lab Sample ID: 480-127239-11

Matrix: Solid | Lab File ID: U328804.D

Analysis Method: 8270D | Date Collected: 11/07/2017 15:20

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.53(g) | Date Analyzed: 11/11/2017 02:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		970	140
108-60-1	bis (2-chloroisopropyl) ether	ND		970	190
95-95-4	2,4,5-Trichlorophenol	ND		970	260
88-06-2	2,4,6-Trichlorophenol	ND		970	190
120-83-2	2,4-Dichlorophenol	ND		970	100
105-67-9	2,4-Dimethylphenol	ND		970	230
51-28-5	2,4-Dinitrophenol	ND		9500	4500
121-14-2	2,4-Dinitrotoluene	ND		970	200
606-20-2	2,6-Dinitrotoluene	ND		970	110
91-58-7	2-Chloronaphthalene	ND		970	160
95-57-8	2-Chlorophenol	ND		970	180
91-57-6	2-Methylnaphthalene	ND		970	190
95-48-7	2-Methylphenol	ND		970	110
88-74-4	2-Nitroaniline	ND		1900	140
88-75-5	2-Nitrophenol	ND		970	270
91-94-1	3,3'-Dichlorobenzidine	ND		1900	1100
99-09-2	3-Nitroaniline	ND		1900	270
534-52-1	4,6-Dinitro-2-methylphenol	ND		1900	970
101-55-3	4-Bromophenyl phenyl ether	ND		970	140
59-50-7	4-Chloro-3-methylphenol	ND		970	240
106-47-8	4-Chloroaniline	ND		970	240
7005-72-3	4-Chlorophenyl phenyl ether	ND		970	120
106-44-5	4-Methylphenol	ND		1900	110
100-01-6	4-Nitroaniline	ND		1900	510
100-02-7	4-Nitrophenol	ND		1900	680
83-32-9	Acenaphthene	ND		970	140
208-96-8	Acenaphthylene	ND		970	130
98-86-2	Acetophenone	ND		970	130
120-12-7	Anthracene	ND		970	240
1912-24-9	Atrazine	ND		970	340
100-52-7	Benzaldehyde	ND		970	770
56-55-3	Benzo(a)anthracene	310	J	970	97
50-32-8	Benzo(a)pyrene	270	J	970	140
205-99-2	Benzo(b)fluoranthene	290	J	970	150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 2-12" | Lab Sample ID: 480-127239-11

Matrix: Solid | Lab File ID: U328804.D

Analysis Method: 8270D | Date Collected: 11/07/2017 15:20

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.53(g) | Date Analyzed: 11/11/2017 02:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	200	J	970	100
207-08-9	Benzo(k)fluoranthene	190	J	970	130
111-91-1	Bis(2-chloroethoxy)methane	ND		970	210
111-44-4	Bis(2-chloroethyl)ether	ND		970	130
117-81-7	Bis(2-ethylhexyl) phthalate	ND		970	330
85-68-7	Butyl benzyl phthalate	ND		970	160
105-60-2	Caprolactam	ND		970	290
86-74-8	Carbazole	ND		970	110
218-01-9	Chrysene	310	J	970	220
84-74-2	Di-n-butyl phthalate	1100		970	170
117-84-0	Di-n-octyl phthalate	ND		970	110
53-70-3	Dibenz(a,h)anthracene	ND		970	170
132-64-9	Dibenzofuran	ND		970	110
84-66-2	Diethyl phthalate	ND		970	130
131-11-3	Dimethyl phthalate	ND		970	110
206-44-0	Fluoranthene	590	J	970	100
86-73-7	Fluorene	ND		970	110
118-74-1	Hexachlorobenzene	ND		970	130
87-68-3	Hexachlorobutadiene	ND		970	140
77-47-4	Hexachlorocyclopentadiene	ND		970	130
67-72-1	Hexachloroethane	ND		970	130
193-39-5	Indeno(1,2,3-cd)pyrene	170	J	970	120
78-59-1	Isophorone	ND		970	210
621-64-7	N-Nitrosodi-n-propylamine	ND		970	170
86-30-6	N-Nitrosodiphenylamine	ND		970	790
91-20-3	Naphthalene	ND		970	130
98-95-3	Nitrobenzene	ND		970	110
87-86-5	Pentachlorophenol	ND		1900	970
85-01-8	Phenanthrene	500	J	970	140
108-95-2	Phenol	ND		970	150
129-00-0	Pyrene	550	J	970	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 2-12" | Lab Sample ID: 480-127239-11

Matrix: Solid | Lab File ID: U328804.D

Analysis Method: 8270D | Date Collected: 11/07/2017 15:20

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.53(g) | Date Analyzed: 11/11/2017 02:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	80		54-120
321-60-8	2-Fluorobiphenyl	86		60-120
367-12-4	2-Fluorophenol	67		52-120
4165-60-0	Nitrobenzene-d5	72		53-120
1718-51-0	p-Terphenyl-d14	106		65-121
4165-62-2	Phenol-d5	78		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D
Lims ID: 480-127239-A-11-A
Client ID: NS-SBN-SOIL 2-12"
Sample Type: Client
Inject. Date: 11-Nov-2017 02:40:30 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 480-0067178-026
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 13-Nov-2017 14:27:17 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: richardsd Date: 13-Nov-2017 11:49:57

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	96	77249	40.0	
*	2 Naphthalene-d8	136	8.733	8.739	-0.006	99	288083	40.0	
*	3 Acenaphthene-d10	164	10.763	10.769	-0.006	97	150315	40.0	
*	4 Phenanthrene-d10	188	12.259	12.259	0.000	98	296018	40.0	
*	5 Chrysene-d12	240	14.711	14.712	-0.001	96	395594	40.0	
*	6 Perylene-d12	264	16.490	16.490	0.000	99	470588	40.0	
$	7 2-Fluorophenol	112	5.656	5.656	0.000	95	13884	5.37	
$	8 Phenol-d5	99	6.730	6.730	0.000	93	19720	6.20	
$	9 Nitrobenzene-d5	82	7.862	7.863	-0.001	95	18109	5.78	
$	10 2-Fluorobiphenyl	172	9.983	9.984	-0.001	99	40124	6.85	
$	11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	91	4435	6.38	
$	12 p-Terphenyl-d14	244	13.669	13.670	-0.001	99	60345	8.47	
	32 Benzaldehyde	77		6.703				ND	
	33 Phenol	94		6.746				ND	
	35 Bis(2-chloroethyl)ether	93		6.869				ND	
	37 2-Chlorophenol	128		6.981				ND	
	43 2-Methylphenol	108		7.467				ND	
	44 2,2'-oxybis[1-chloropropan	45		7.505				ND	
	46 4-Methylphenol	108		7.638				ND	
	47 N-Nitrosodi-n-propylamine	70		7.654				ND	
	49 Acetophenone	105		7.676				ND	
	53 Hexachloroethane	117		7.847				ND	
	54 Nitrobenzene	77		7.884				ND	
	56 Isophorone	82		8.157				ND	
	59 2-Nitrophenol	139		8.269				ND	
	60 2,4-Dimethylphenol	107		8.274				ND	
	62 Bis(2-chloroethoxy)methane	93		8.381				ND	
	67 2,4-Dichlorophenol	162		8.547				ND	
	70 Naphthalene	128		8.760				ND	
	72 4-Chloroaniline	127		8.792				ND	
	74 Hexachlorobutadiene	225		8.904				ND	
	76 Caprolactam	113		9.172				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		9.337				ND	
83 2-Methylnaphthalene	142		9.578				ND	
86 Hexachlorocyclopentadiene	237		9.775				ND	
89 2,4,6-Trichlorophenol	196		9.893				ND	
91 2,4,5-Trichlorophenol	196		9.941				ND	
94 1,1'-Biphenyl	154		10.106				ND	
95 2-Chloronaphthalene	162		10.149				ND	
98 2-Nitroaniline	65		10.235				ND	
102 Dimethyl phthalate	163		10.411				ND	
104 2,6-Dinitrotoluene	165		10.486				ND	
105 Acenaphthylene	152		10.614				ND	
106 3-Nitroaniline	138		10.678				ND	
107 2,4-Dinitrophenol	184		10.790				ND	
108 Acenaphthene	153		10.801				ND	
109 4-Nitrophenol	109		10.833				ND	
111 2,4-Dinitrotoluene	165		10.924				ND	
112 Dibenzofuran	168		10.983				ND	
118 Diethyl phthalate	149		11.154				ND	
121 4-Chlorophenyl phenyl ethe	204		11.308				ND	
122 4-Nitroaniline	138		11.325				ND	
123 Fluorene	166		11.335				ND	
125 4,6-Dinitro-2-methylphenol	198		11.357				ND	
127 N-Nitrosodiphenylamine	169		11.421				ND	
137 4-Bromophenyl phenyl ether	248		11.800				ND	
139 Hexachlorobenzene	284		11.901				ND	
141 Atrazine	200		11.912				ND	
143 Pentachlorophenol	266		12.072				ND	
150 Phenanthrene	178	12.280	12.286	-0.006	97	22417	2.63	
151 Anthracene	178	12.329	12.329	-0.001	91	4424	0.5017	
152 Carbazole	167		12.457				ND	
155 Di-n-butyl phthalate	149	12.708	12.708	0.000	99	53388	6.04	
162 Fluoranthene	202	13.376	13.376	0.000	97	30607	3.13	
165 Pyrene	202	13.589	13.590	-0.001	97	25541	2.88	
172 Butyl benzyl phthalate	149		14.060				ND	
178 Bis(2-ethylhexyl) phthalat	149	14.551	14.551	0.000	95	8026	1.49	
179 3,3'-Dichlorobenzidine	252		14.615				ND	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	97	18270	1.61	
182 Chrysene	228	14.733	14.738	-0.006	96	17743	1.62	
183 Di-n-octyl phthalate	149		15.208				ND	
185 Benzo[b]fluoranthene	252	15.940	15.940	0.000	96	21321	1.55	M
187 Benzo[k]fluoranthene	252	15.961	15.978	-0.017	97	14495	1.02	M
190 Benzo[a]pyrene	252	16.405	16.410	-0.005	76	19266	1.44	
193 Dibenz(a,h)anthracene	278		18.312				ND	
194 Indeno[1,2,3-cd]pyrene	276	18.312	18.323	-0.011	96	13259	0.8854	
195 Benzo[g,h,i]perylene	276	18.889	18.894	-0.005	98	12402	1.05	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

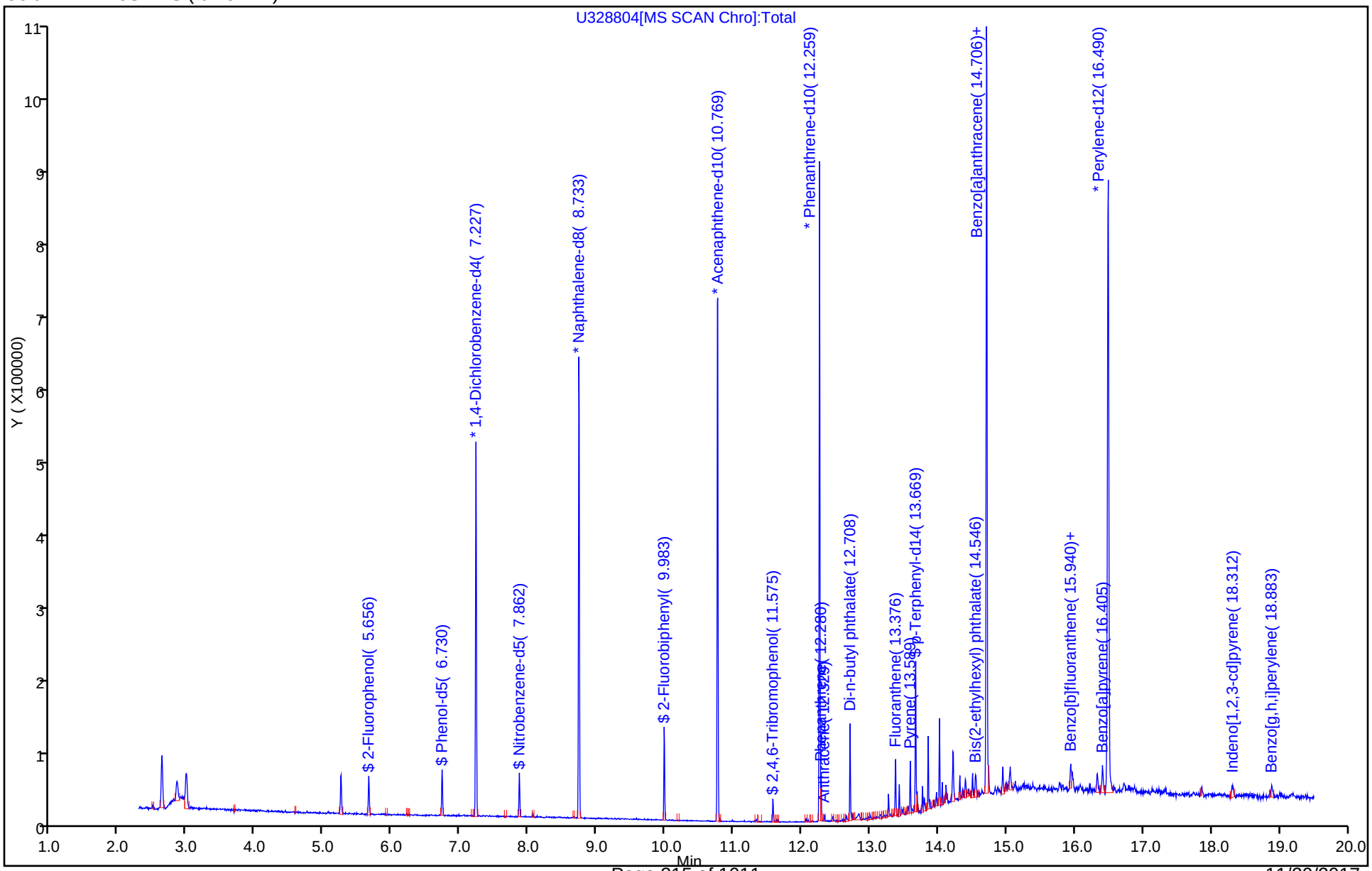
Report Date: 13-Nov-2017 14:27:23 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D

Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11	Worklist Smp#:	26
Client ID:	NS-SBN-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	26
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

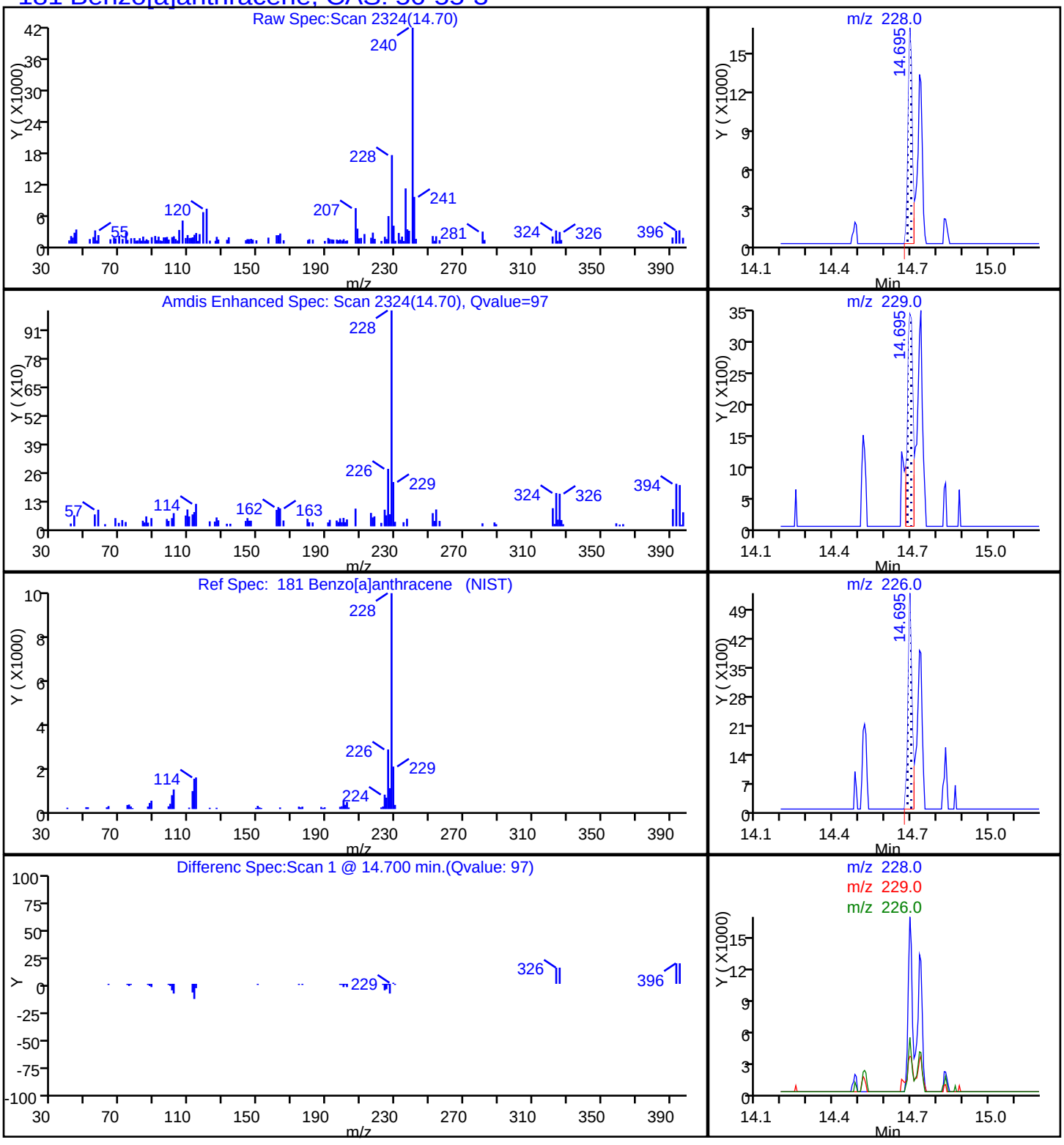
Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D				
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

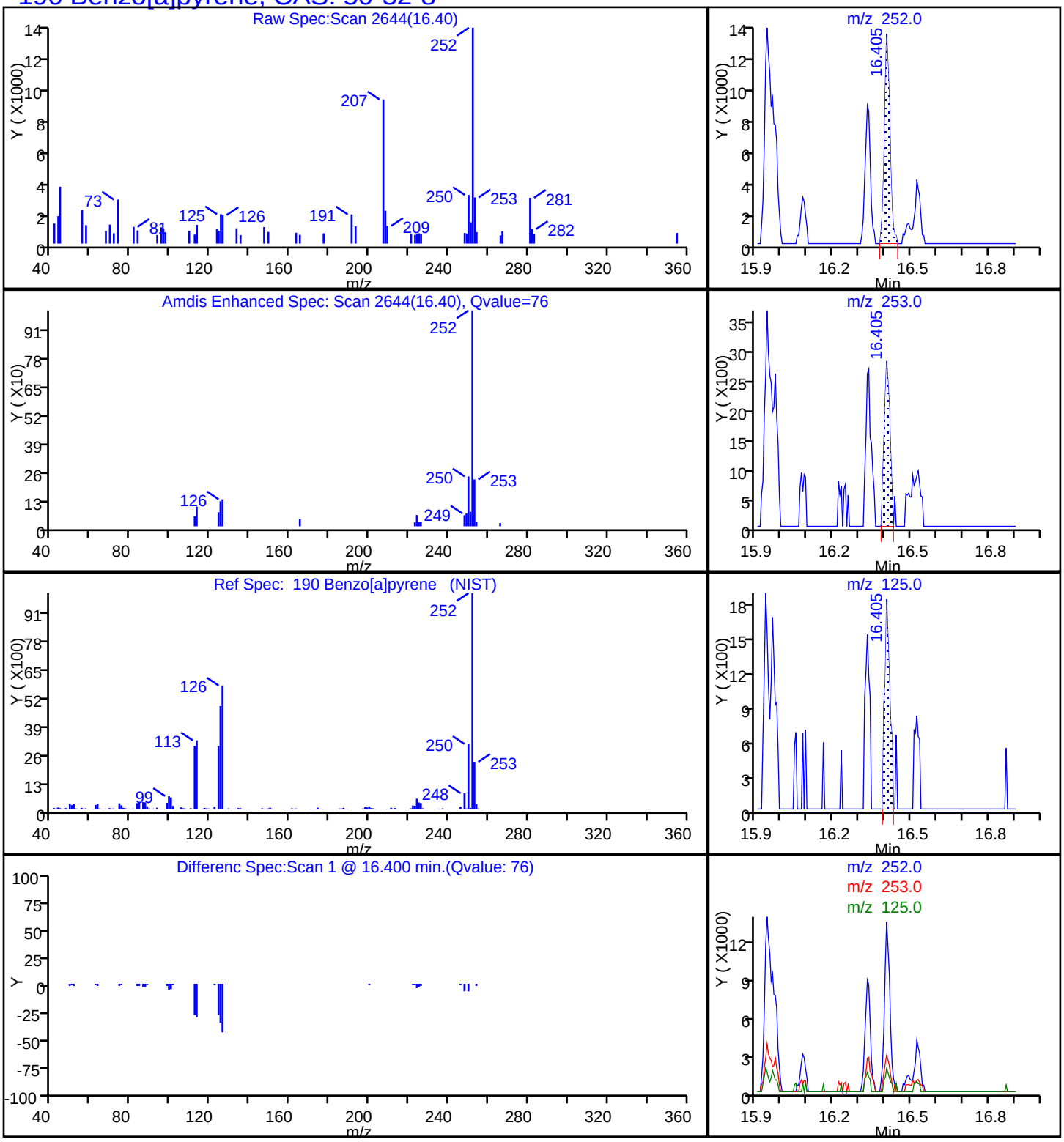
181 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D				
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

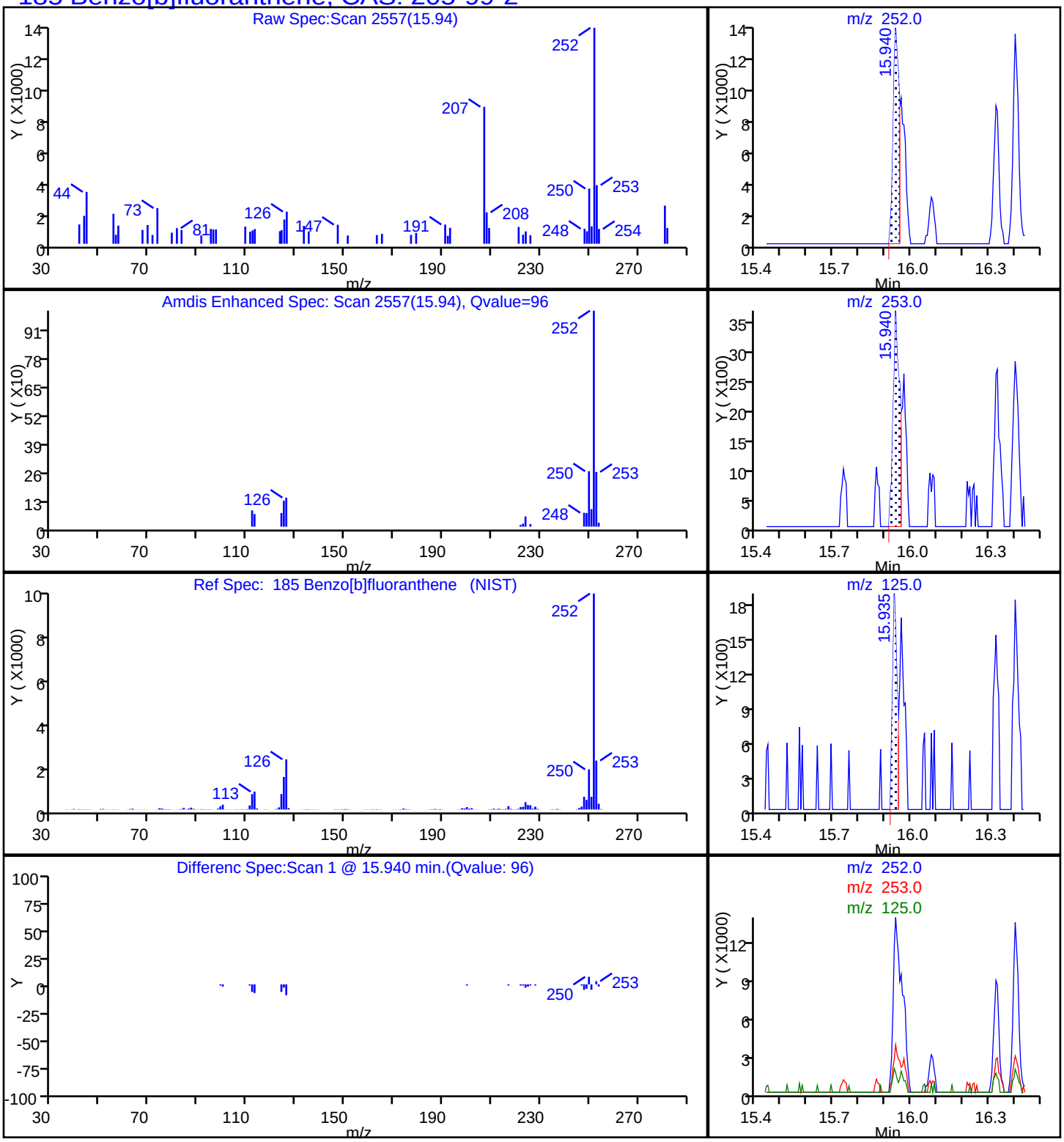
190 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D				
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

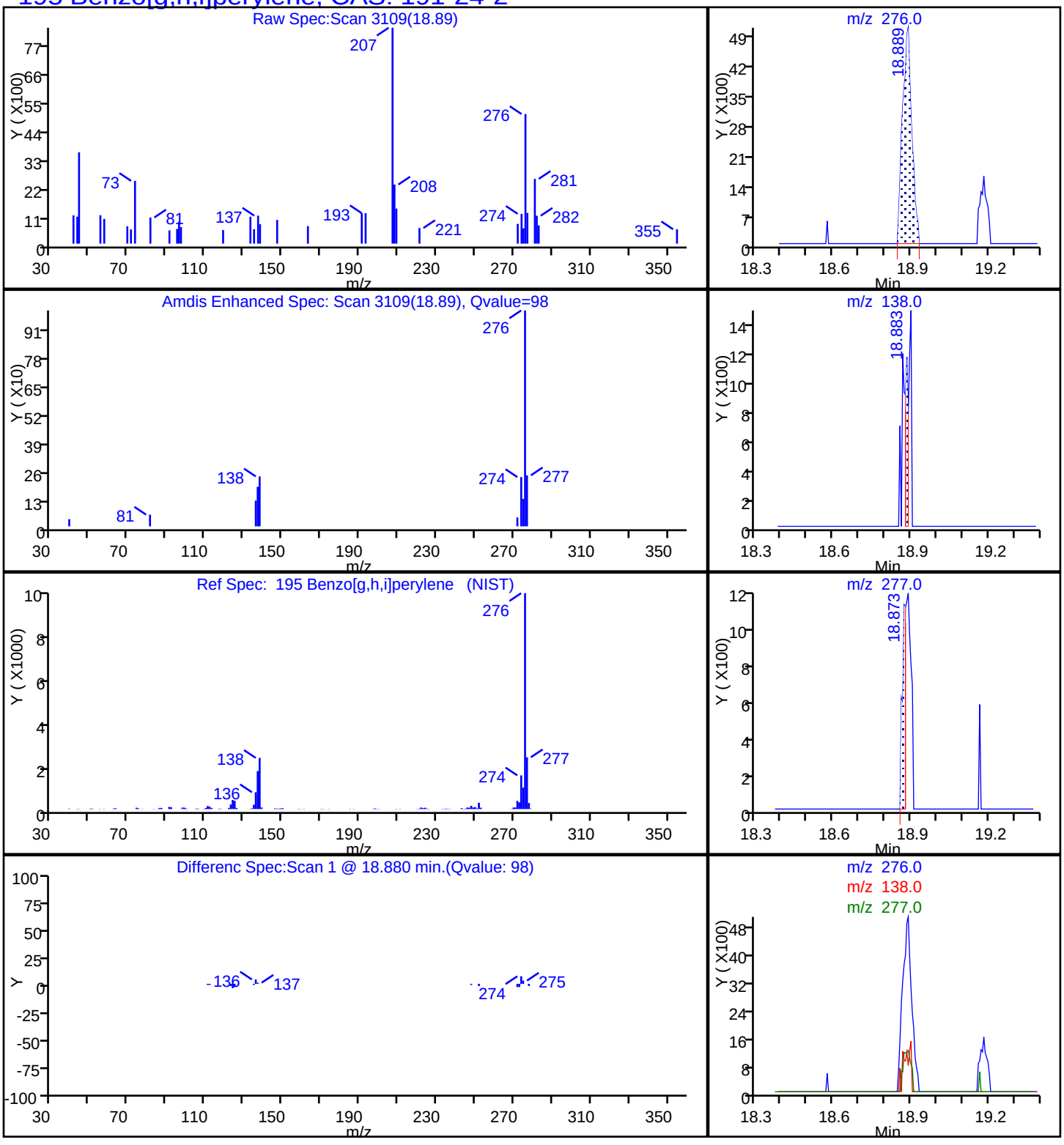
185 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D				
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

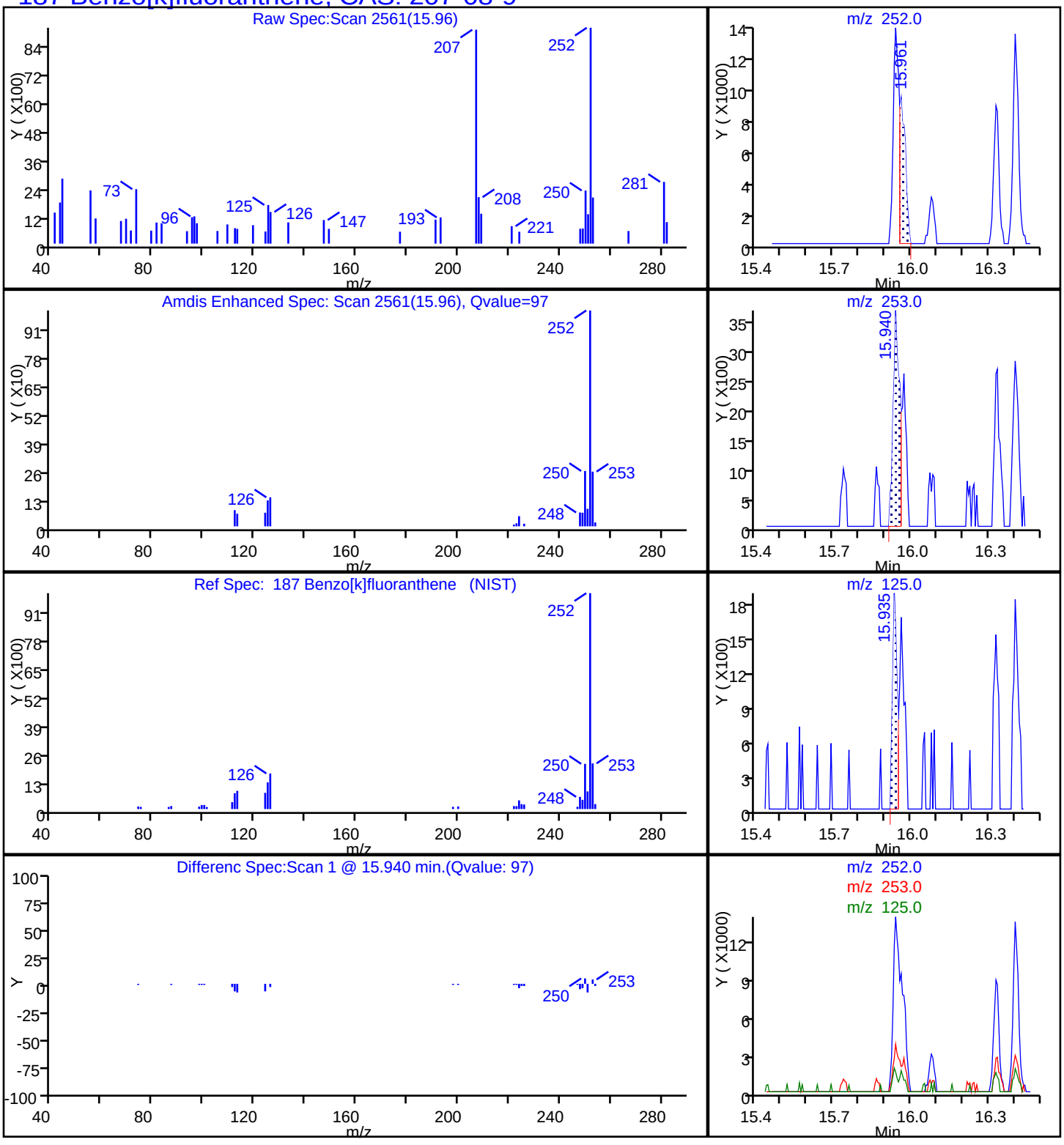
195 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D				
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

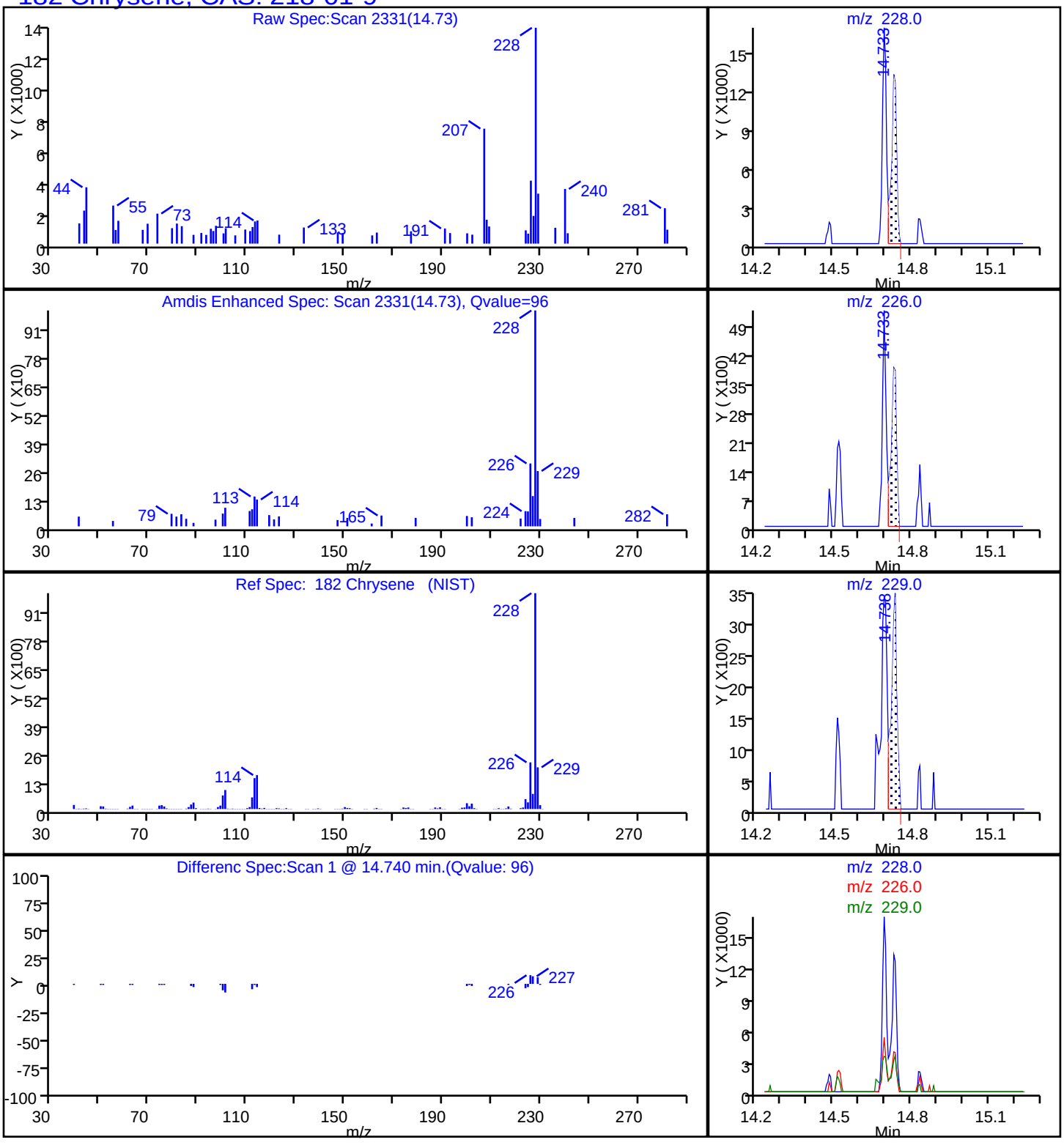
187 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D		
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11
Client ID:	NS-SBN-SOIL 2-12"		
Operator ID:	DR	ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

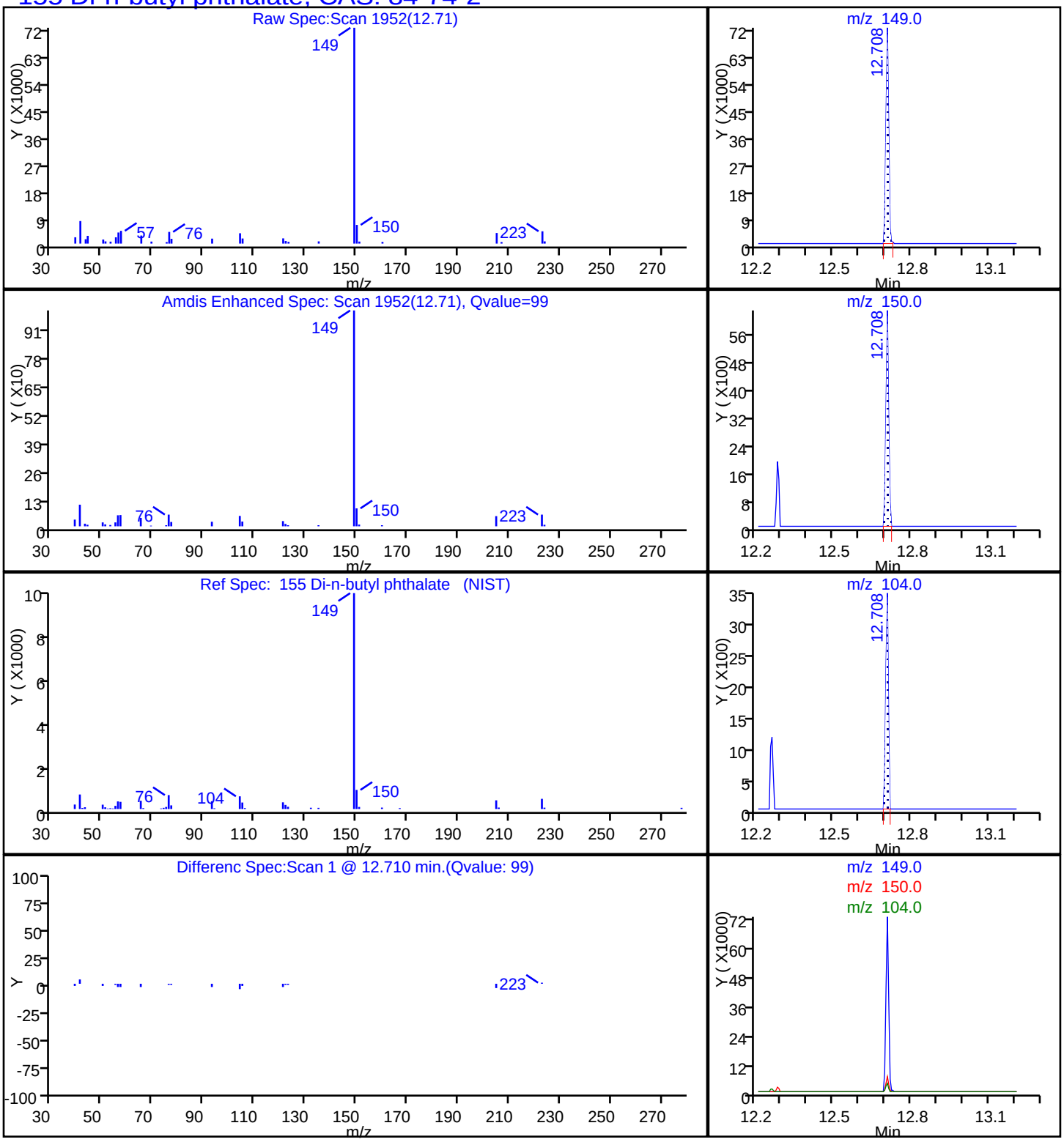
182 Chrysene, CAS: 218-01-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D				
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

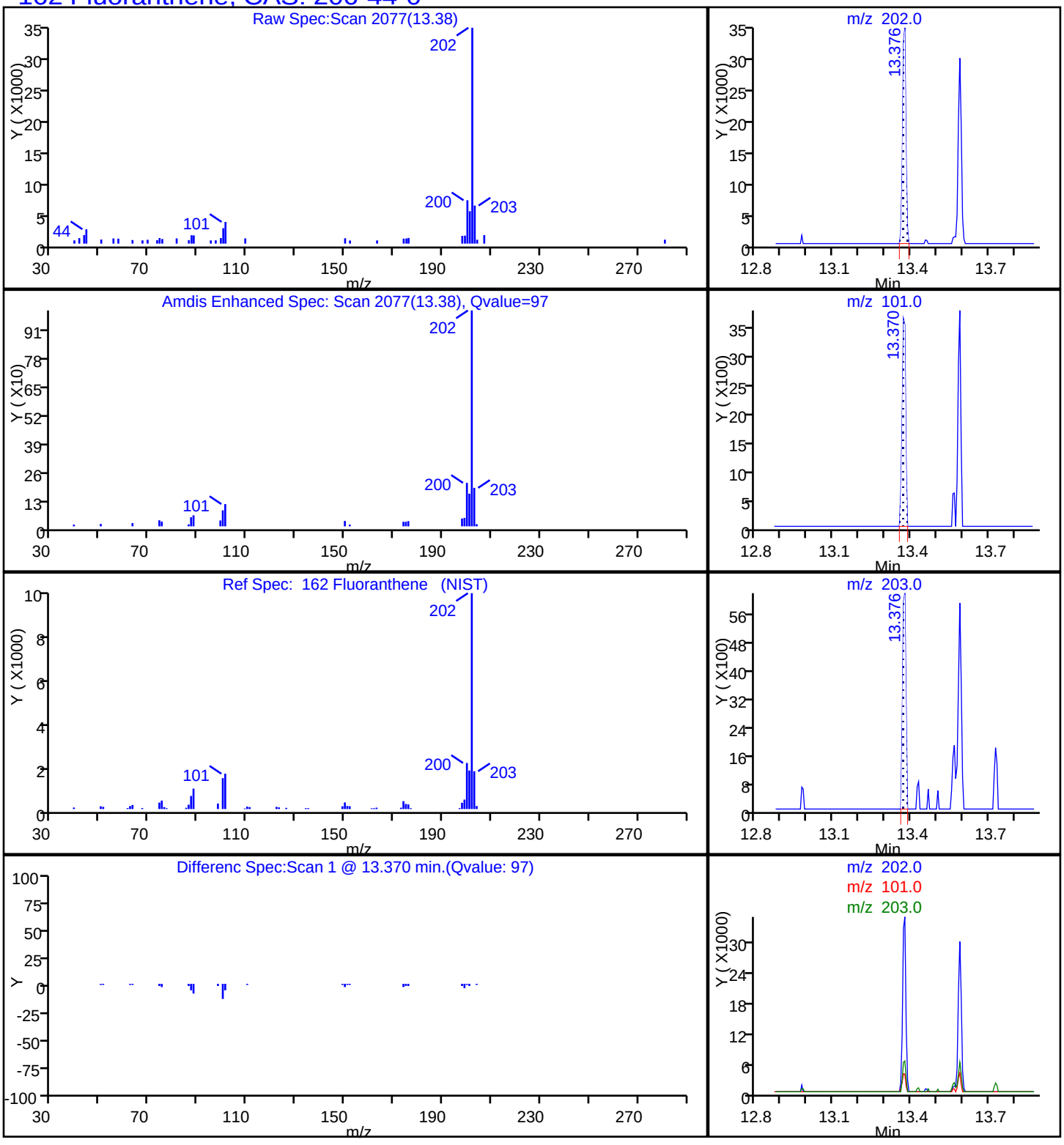
155 Di-n-butyl phthalate, CAS: 84-74-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D		
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11
Client ID:	NS-SBN-SOIL 2-12"		
Operator ID:	DR	ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

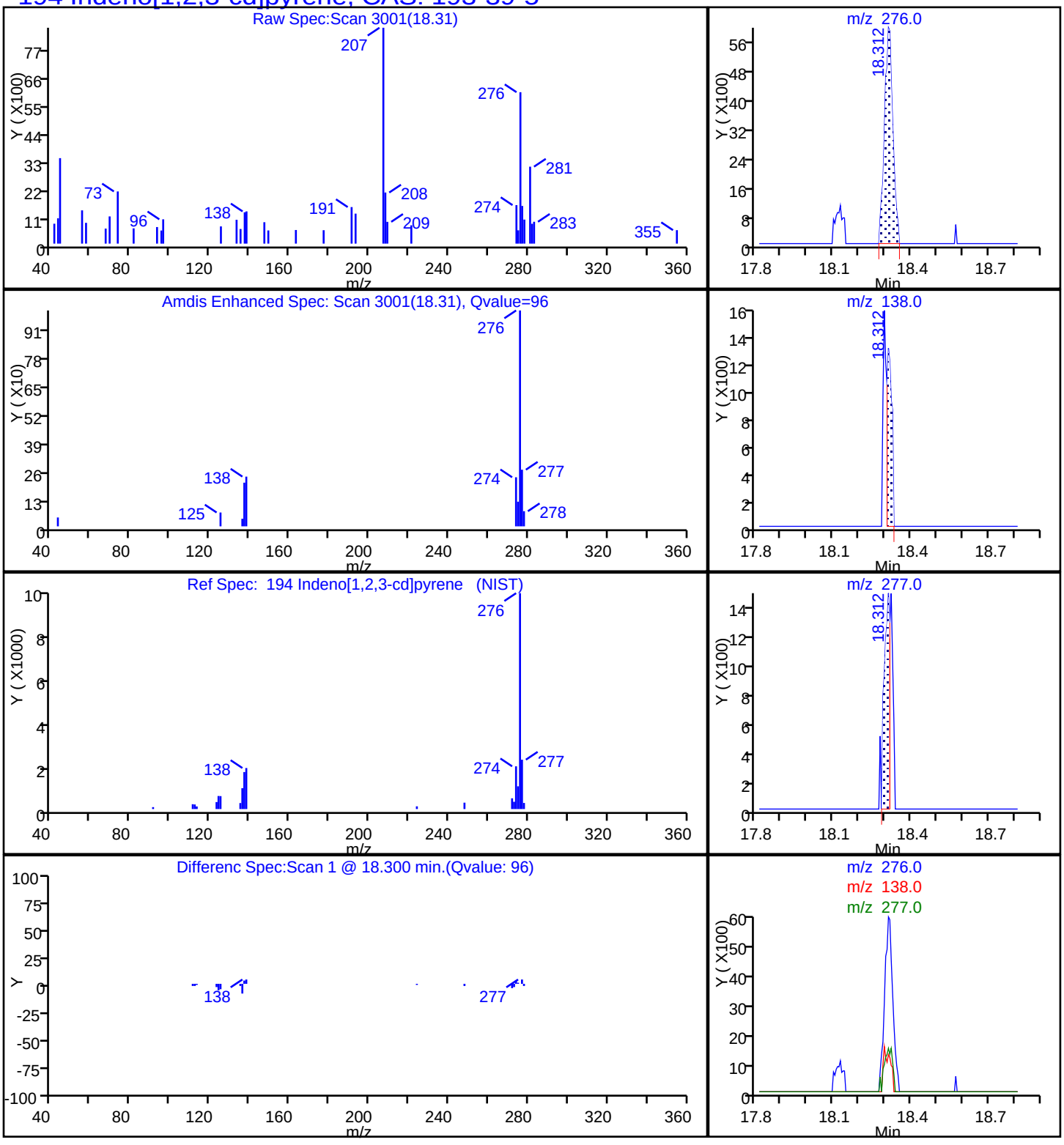
162 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D				
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

194 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

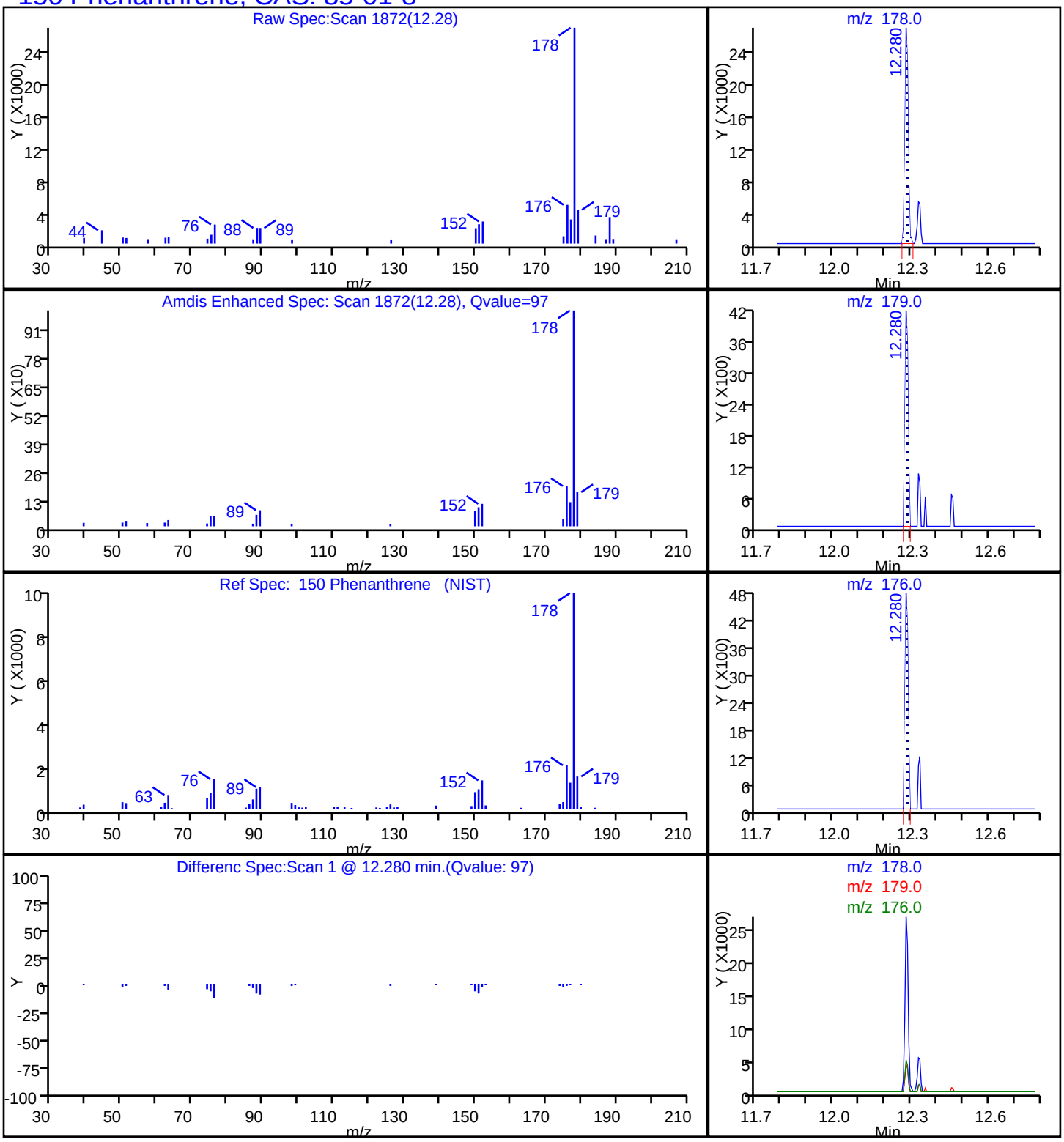


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D

Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

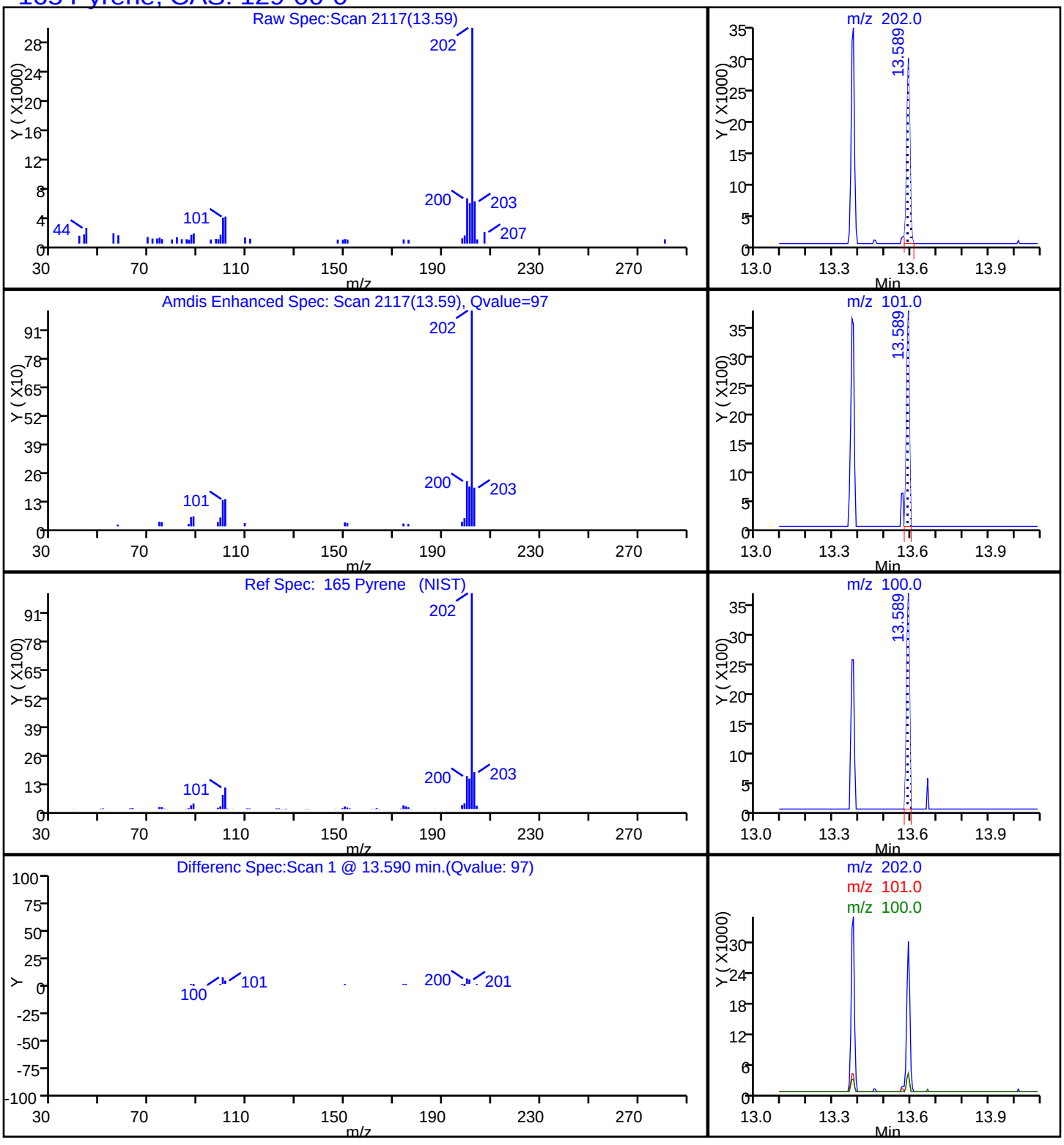
150 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D				
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

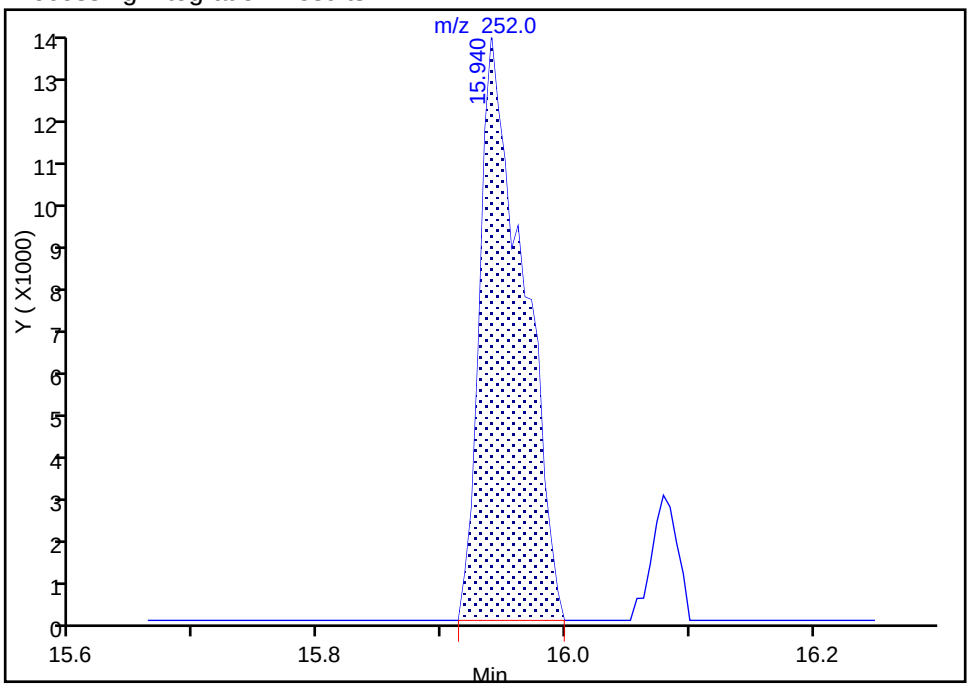
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D				
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

185 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

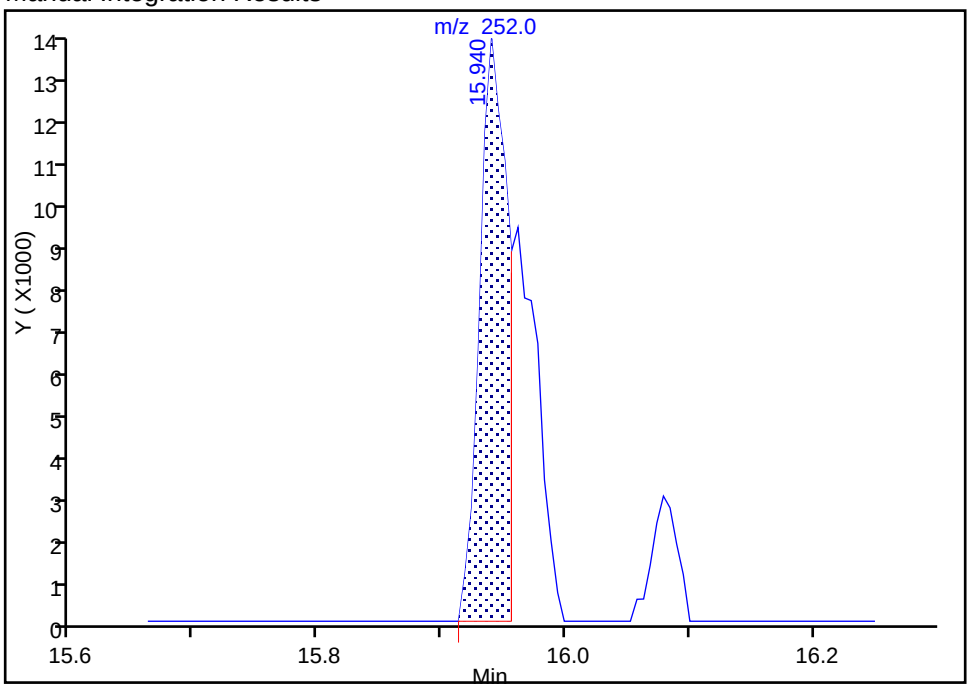
Processing Integration Results

RT: 15.94
Area: 33046
Amount: 2.395054
Amount Units: ng/uL



Manual Integration Results

RT: 15.94
Area: 21321
Amount: 1.545268
Amount Units: ng/uL



Reviewer: richardsd, 13-Nov-2017 11:49:50

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

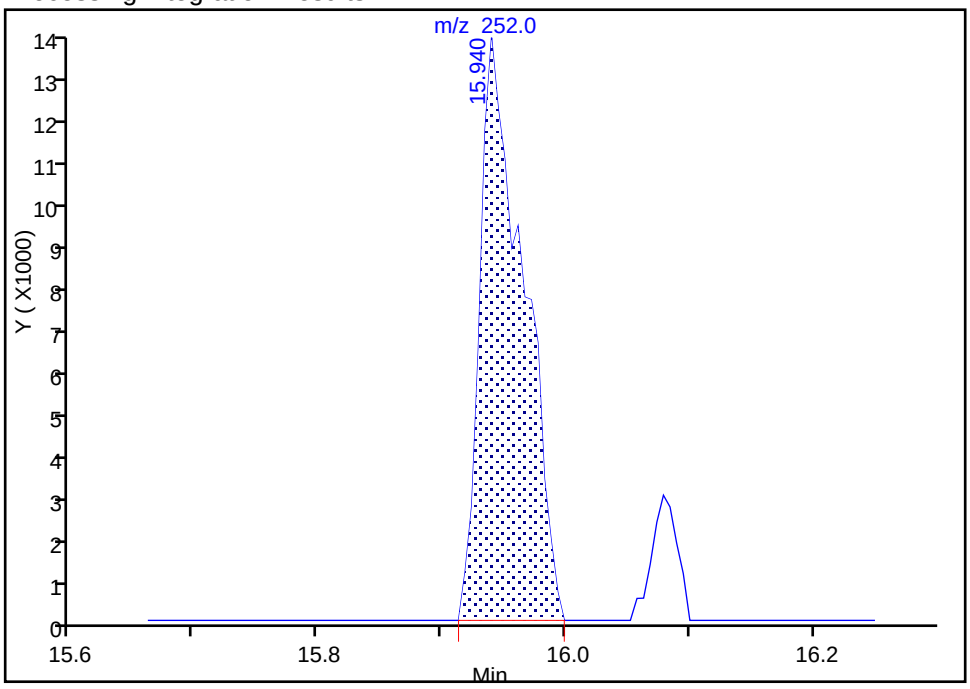
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328804.D				
Injection Date:	11-Nov-2017 02:40:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-11-A	Lab Sample ID:	480-127239-11		
Client ID:	NS-SBN-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

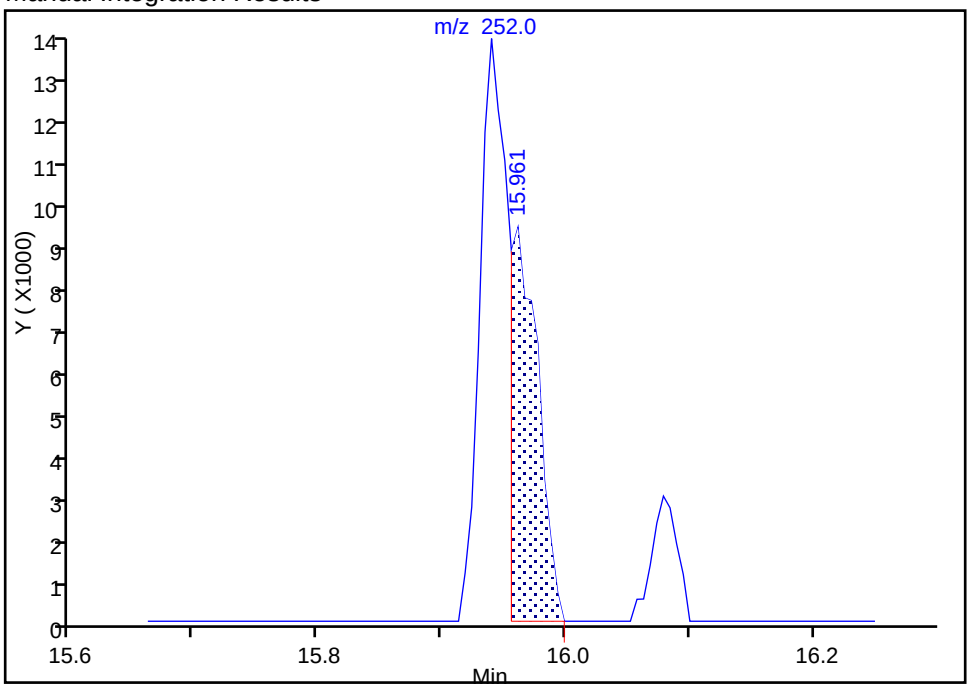
Processing Integration Results

RT: 15.94
Area: 33046
Amount: 2.334650
Amount Units: ng/uL



Manual Integration Results

RT: 15.96
Area: 14495
Amount: 1.024050
Amount Units: ng/uL



Reviewer: richardsd, 13-Nov-2017 11:49:54

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 2-12" | Lab Sample ID: 480-127239-12

Matrix: Solid | Lab File ID: U328805.D

Analysis Method: 8270D | Date Collected: 11/07/2017 00:00

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.65(g) | Date Analyzed: 11/11/2017 03:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		3900	580
108-60-1	bis (2-chloroisopropyl) ether	ND		3900	790
95-95-4	2,4,5-Trichlorophenol	ND		3900	1100
88-06-2	2,4,6-Trichlorophenol	ND		3900	790
120-83-2	2,4-Dichlorophenol	ND		3900	420
105-67-9	2,4-Dimethylphenol	ND		3900	950
51-28-5	2,4-Dinitrophenol	ND		39000	18000
121-14-2	2,4-Dinitrotoluene	ND		3900	810
606-20-2	2,6-Dinitrotoluene	ND		3900	460
91-58-7	2-Chloronaphthalene	ND		3900	650
95-57-8	2-Chlorophenol	ND		3900	720
91-57-6	2-Methylnaphthalene	ND		3900	790
95-48-7	2-Methylphenol	ND		3900	460
88-74-4	2-Nitroaniline	ND		7700	580
88-75-5	2-Nitrophenol	ND		3900	1100
91-94-1	3,3'-Dichlorobenzidine	ND		7700	4600
99-09-2	3-Nitroaniline	ND		7700	1100
534-52-1	4,6-Dinitro-2-methylphenol	ND		7700	3900
101-55-3	4-Bromophenyl phenyl ether	ND		3900	560
59-50-7	4-Chloro-3-methylphenol	ND		3900	970
106-47-8	4-Chloroaniline	ND		3900	970
7005-72-3	4-Chlorophenyl phenyl ether	ND		3900	490
106-44-5	4-Methylphenol	ND		7700	460
100-01-6	4-Nitroaniline	ND		7700	2100
100-02-7	4-Nitrophenol	ND		7700	2800
83-32-9	Acenaphthene	730	J	3900	580
208-96-8	Acenaphthylene	ND		3900	510
98-86-2	Acetophenone	ND		3900	530
120-12-7	Anthracene	1600	J	3900	970
1912-24-9	Atrazine	ND		3900	1400
100-52-7	Benzaldehyde	ND		3900	3100
56-55-3	Benzo(a)anthracene	4200		3900	390
50-32-8	Benzo(a)pyrene	3700	J	3900	580
205-99-2	Benzo(b)fluoranthene	4400		3900	630

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 2-12" | Lab Sample ID: 480-127239-12

Matrix: Solid | Lab File ID: U328805.D

Analysis Method: 8270D | Date Collected: 11/07/2017 00:00

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.65(g) | Date Analyzed: 11/11/2017 03:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	2500	J	3900	420
207-08-9	Benzo(k)fluoranthene	2300	J	3900	510
111-91-1	Bis(2-chloroethoxy)methane	ND		3900	840
111-44-4	Bis(2-chloroethyl)ether	ND		3900	510
117-81-7	Bis(2-ethylhexyl) phthalate	ND		3900	1300
85-68-7	Butyl benzyl phthalate	ND		3900	650
105-60-2	Caprolactam	ND		3900	1200
86-74-8	Carbazole	860	J	3900	460
218-01-9	Chrysene	4400		3900	880
84-74-2	Di-n-butyl phthalate	ND		3900	670
117-84-0	Di-n-octyl phthalate	ND		3900	460
53-70-3	Dibenz(a,h)anthracene	700	J	3900	700
132-64-9	Dibenzofuran	ND		3900	460
84-66-2	Diethyl phthalate	ND		3900	510
131-11-3	Dimethyl phthalate	ND		3900	460
206-44-0	Fluoranthene	9000		3900	420
86-73-7	Fluorene	630	J	3900	460
118-74-1	Hexachlorobenzene	ND		3900	530
87-68-3	Hexachlorobutadiene	ND		3900	580
77-47-4	Hexachlorocyclopentadiene	ND		3900	530
67-72-1	Hexachloroethane	ND		3900	510
193-39-5	Indeno(1,2,3-cd)pyrene	2300	J	3900	490
78-59-1	Isophorone	ND		3900	840
621-64-7	N-Nitrosodi-n-propylamine	ND		3900	670
86-30-6	N-Nitrosodiphenylamine	ND		3900	3200
91-20-3	Naphthalene	ND		3900	510
98-95-3	Nitrobenzene	ND		3900	440
87-86-5	Pentachlorophenol	ND		7700	3900
85-01-8	Phenanthrene	7500		3900	580
108-95-2	Phenol	ND		3900	600
129-00-0	Pyrene	8100		3900	460

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 2-12" | Lab Sample ID: 480-127239-12

Matrix: Solid | Lab File ID: U328805.D

Analysis Method: 8270D | Date Collected: 11/07/2017 00:00

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.65(g) | Date Analyzed: 11/11/2017 03:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	146	X	54-120
321-60-8	2-Fluorobiphenyl	89		60-120
367-12-4	2-Fluorophenol	68		52-120
4165-60-0	Nitrobenzene-d5	80		53-120
1718-51-0	p-Terphenyl-d14	101		65-121
4165-62-2	Phenol-d5	84		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D
Lims ID: 480-127239-A-12-A
Client ID: NS-DUP-SOIL 2-12"
Sample Type: Client
Inject. Date: 11-Nov-2017 03:06:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 480-0067178-027
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 13-Nov-2017 14:27:17 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: richardsd Date: 13-Nov-2017 11:51:10

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	97	73282	40.0	
*	2 Naphthalene-d8	136	8.733	8.739	-0.006	99	267527	40.0	
*	3 Acenaphthene-d10	164	10.763	10.769	-0.006	97	139898	40.0	
*	4 Phenanthrene-d10	188	12.259	12.259	0.000	98	276273	40.0	
*	5 Chrysene-d12	240	14.711	14.712	-0.001	97	394369	40.0	
*	6 Perylene-d12	264	16.490	16.490	0.000	99	473708	40.0	
$	7 2-Fluorophenol	112	5.656	5.656	0.000	7	3317	1.35	
$	8 Phenol-d5	99	6.730	6.730	0.000	91	5074	1.68	
$	9 Nitrobenzene-d5	82	7.862	7.863	-0.001	93	4641	1.60	
$	10 2-Fluorobiphenyl	172	9.989	9.984	0.005	97	9681	1.77	
$	11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	79	896	2.92	
$	12 p-Terphenyl-d14	244	13.669	13.670	-0.001	97	14290	2.01	
	32 Benzaldehyde	77		6.703				ND	
	33 Phenol	94		6.746				ND	
	35 Bis(2-chloroethyl)ether	93		6.869				ND	
	37 2-Chlorophenol	128		6.981				ND	
	43 2-Methylphenol	108		7.467				ND	
	44 2,2'-oxybis[1-chloropropan	45		7.505				ND	
	46 4-Methylphenol	108		7.638				ND	
	47 N-Nitrosodi-n-propylamine	70		7.654				ND	
	49 Acetophenone	105		7.676				ND	
	53 Hexachloroethane	117		7.847				ND	
	54 Nitrobenzene	77		7.884				ND	
	56 Isophorone	82		8.157				ND	
	59 2-Nitrophenol	139		8.269				ND	
	60 2,4-Dimethylphenol	107		8.274				ND	
	62 Bis(2-chloroethoxy)methane	93		8.381				ND	
	67 2,4-Dichlorophenol	162		8.547				ND	
	70 Naphthalene	128		8.760				ND	
	72 4-Chloroaniline	127		8.792				ND	
	74 Hexachlorobutadiene	225		8.904				ND	
	76 Caprolactam	113		9.172				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		9.337				ND	
83 2-Methylnaphthalene	142		9.578				ND	
86 Hexachlorocyclopentadiene	237		9.775				ND	
89 2,4,6-Trichlorophenol	196		9.893				ND	
91 2,4,5-Trichlorophenol	196		9.941				ND	
94 1,1'-Biphenyl	154		10.106				ND	
95 2-Chloronaphthalene	162		10.149				ND	
98 2-Nitroaniline	65		10.235				ND	
102 Dimethyl phthalate	163		10.411				ND	
104 2,6-Dinitrotoluene	165		10.486				ND	
105 Acenaphthylene	152		10.614				ND	
106 3-Nitroaniline	138		10.678				ND	
107 2,4-Dinitrophenol	184		10.790				ND	
108 Acenaphthene	153	10.801	10.801	0.000	92	4300	0.9482	
109 4-Nitrophenol	109		10.833				ND	
111 2,4-Dinitrotoluene	165		10.924				ND	
112 Dibenzofuran	168		10.983				ND	
118 Diethyl phthalate	149		11.154				ND	
121 4-Chlorophenyl phenyl ethe	204		11.308				ND	
122 4-Nitroaniline	138		11.325				ND	
123 Fluorene	166	11.335	11.335	0.000	90	4364	0.8189	
125 4,6-Dinitro-2-methylphenol	198		11.357				ND	
127 N-Nitrosodiphenylamine	169		11.421				ND	
137 4-Bromophenyl phenyl ether	248		11.800				ND	
139 Hexachlorobenzene	284		11.901				ND	
141 Atrazine	200		11.912				ND	
143 Pentachlorophenol	266		12.072				ND	
150 Phenanthrene	178	12.280	12.286	-0.006	97	77224	9.69	
151 Anthracene	178	12.328	12.329	-0.001	96	17508	2.13	
152 Carbazole	167	12.457	12.457	0.000	96	8055	1.11	
155 Di-n-butyl phthalate	149		12.708				ND	
162 Fluoranthene	202	13.376	13.376	0.000	97	106309	11.6	
165 Pyrene	202	13.589	13.590	-0.001	97	92267	10.5	
172 Butyl benzyl phthalate	149		14.060				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.551				ND	
179 3,3'-Dichlorobenzidine	252		14.615				ND	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	97	60990	5.39	
182 Chrysene	228	14.738	14.738	0.000	96	61684	5.65	
183 Di-n-octyl phthalate	149		15.208				ND	
185 Benzo[b]fluoranthene	252	15.945	15.940	0.005	95	78352	5.64	M
187 Benzo[k]fluoranthene	252	15.961	15.978	-0.017	97	41807	2.93	M
190 Benzo[a]pyrene	252	16.410	16.410	0.000	76	64024	4.74	
193 Dibenz(a,h)anthracene	278	18.296	18.312	-0.016	59	11593	0.9055	
194 Indeno[1,2,3-cd]pyrene	276	18.312	18.323	-0.011	99	45050	2.99	
195 Benzo[g,h,i]perylene	276	18.878	18.894	-0.016	98	38828	3.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

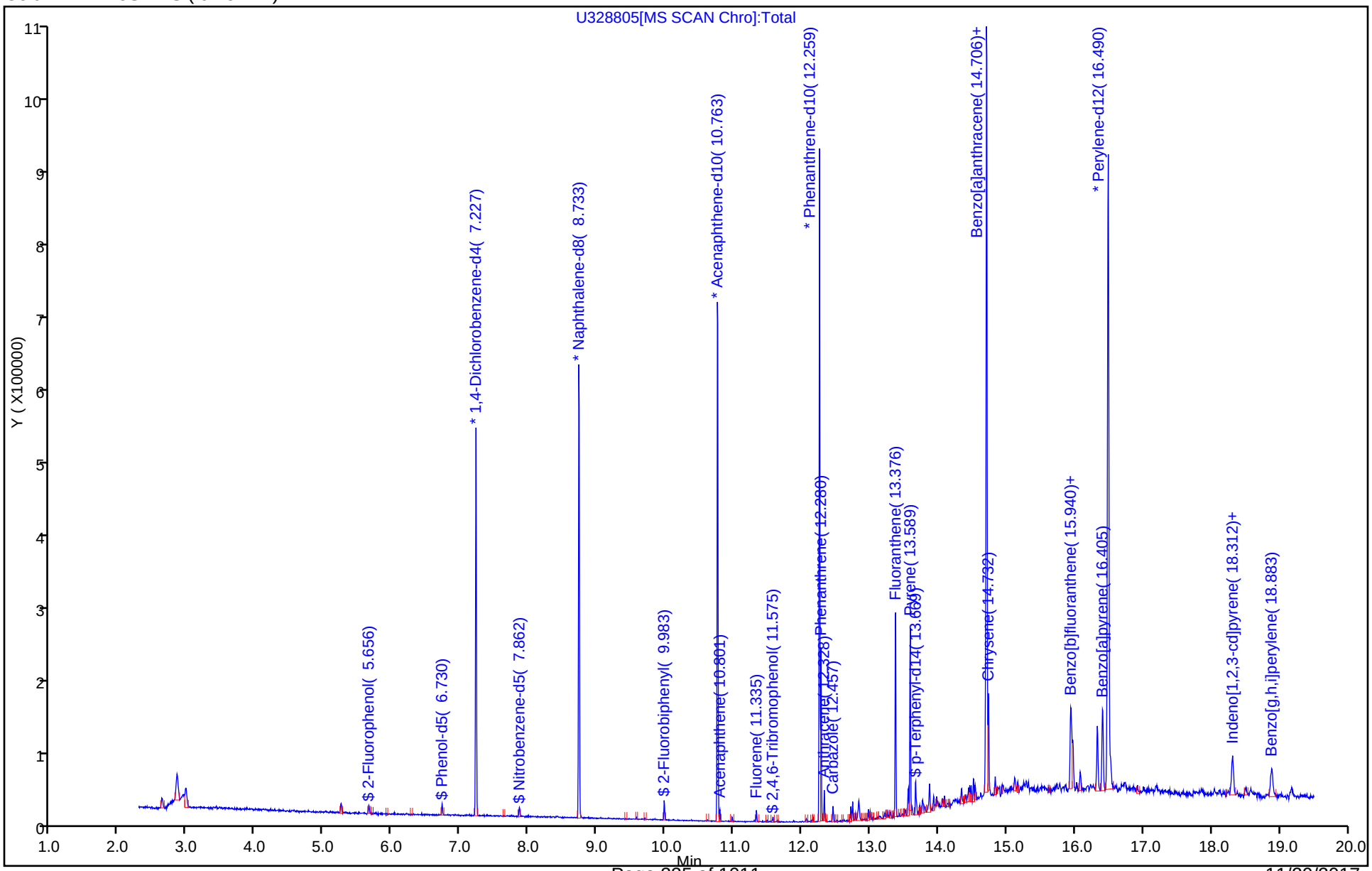
Report Date: 13-Nov-2017 14:27:21 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D

Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12	Worklist Smp#:	27
Client ID:	NS-DUP-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	27
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

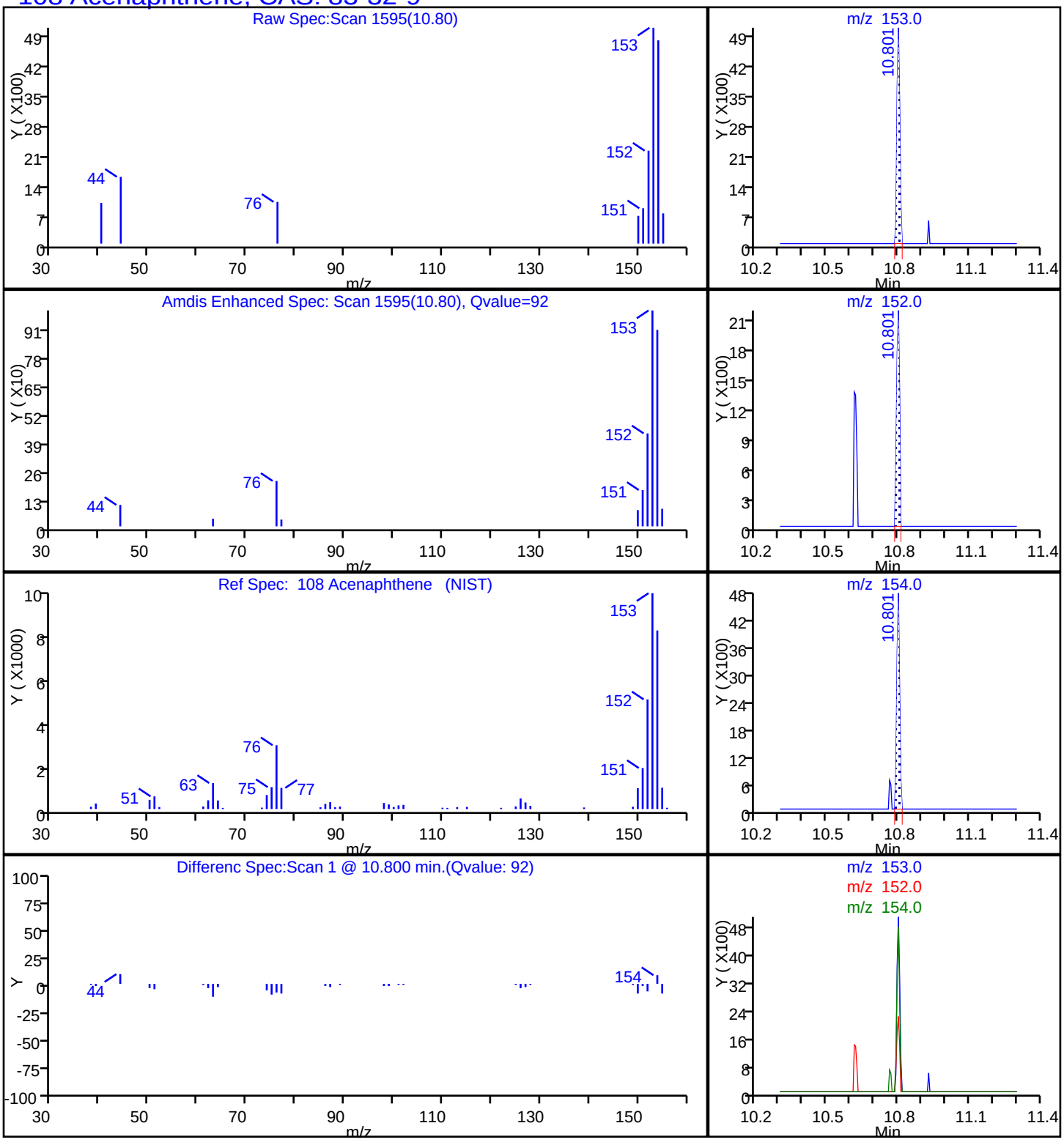
Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

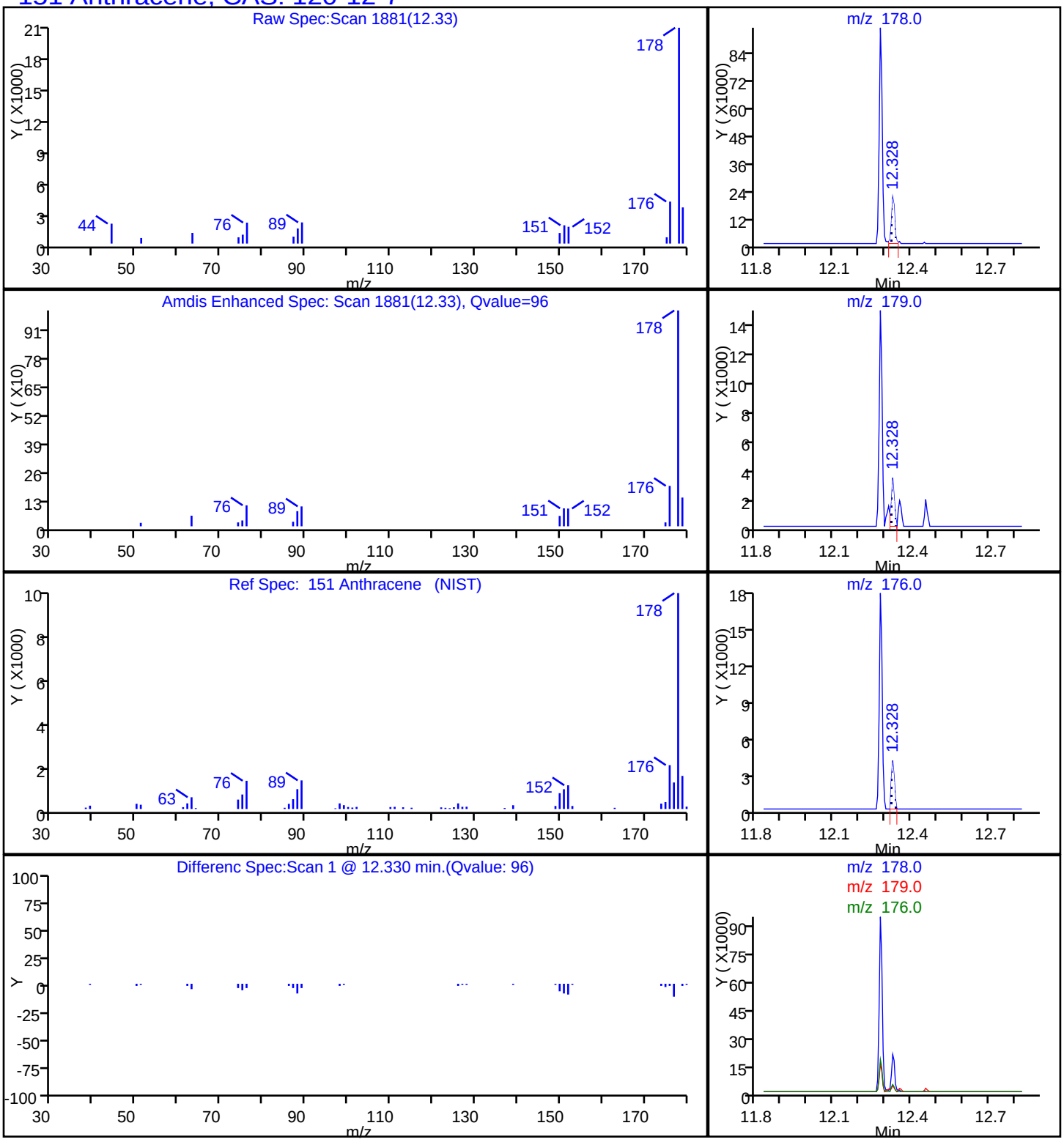
108 Acenaphthene, CAS: 83-32-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

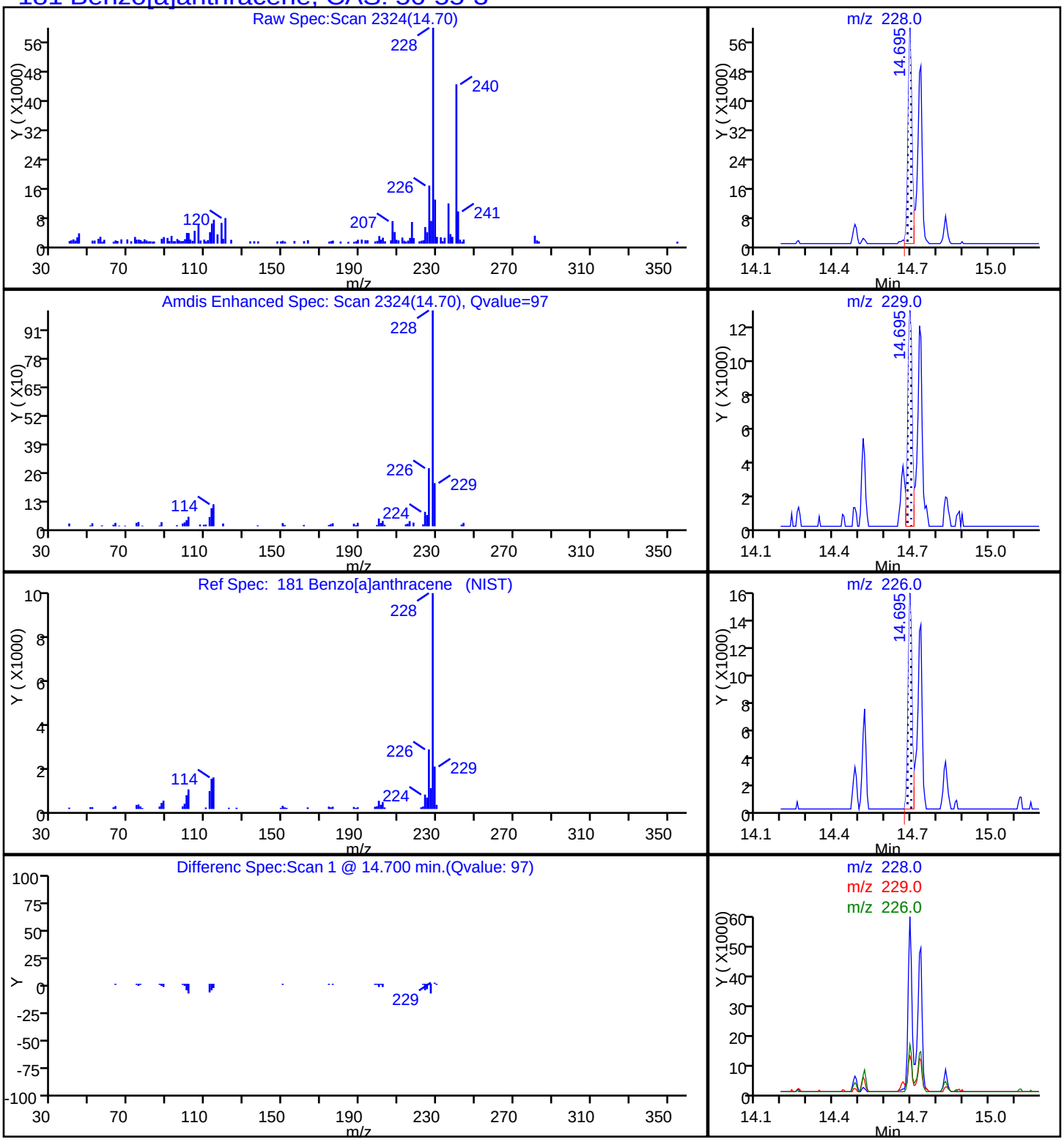
151 Anthracene, CAS: 120-12-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

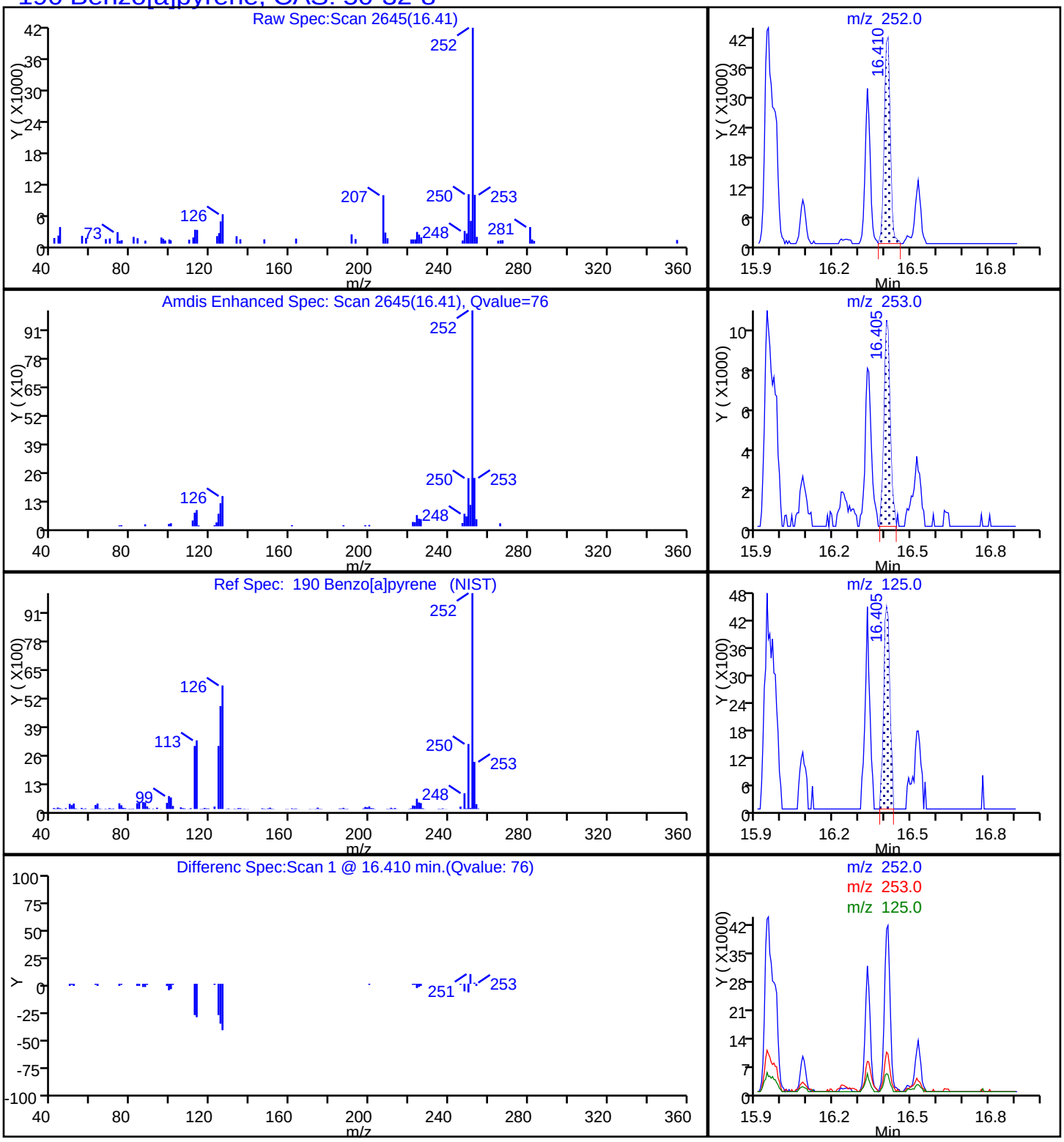
181 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

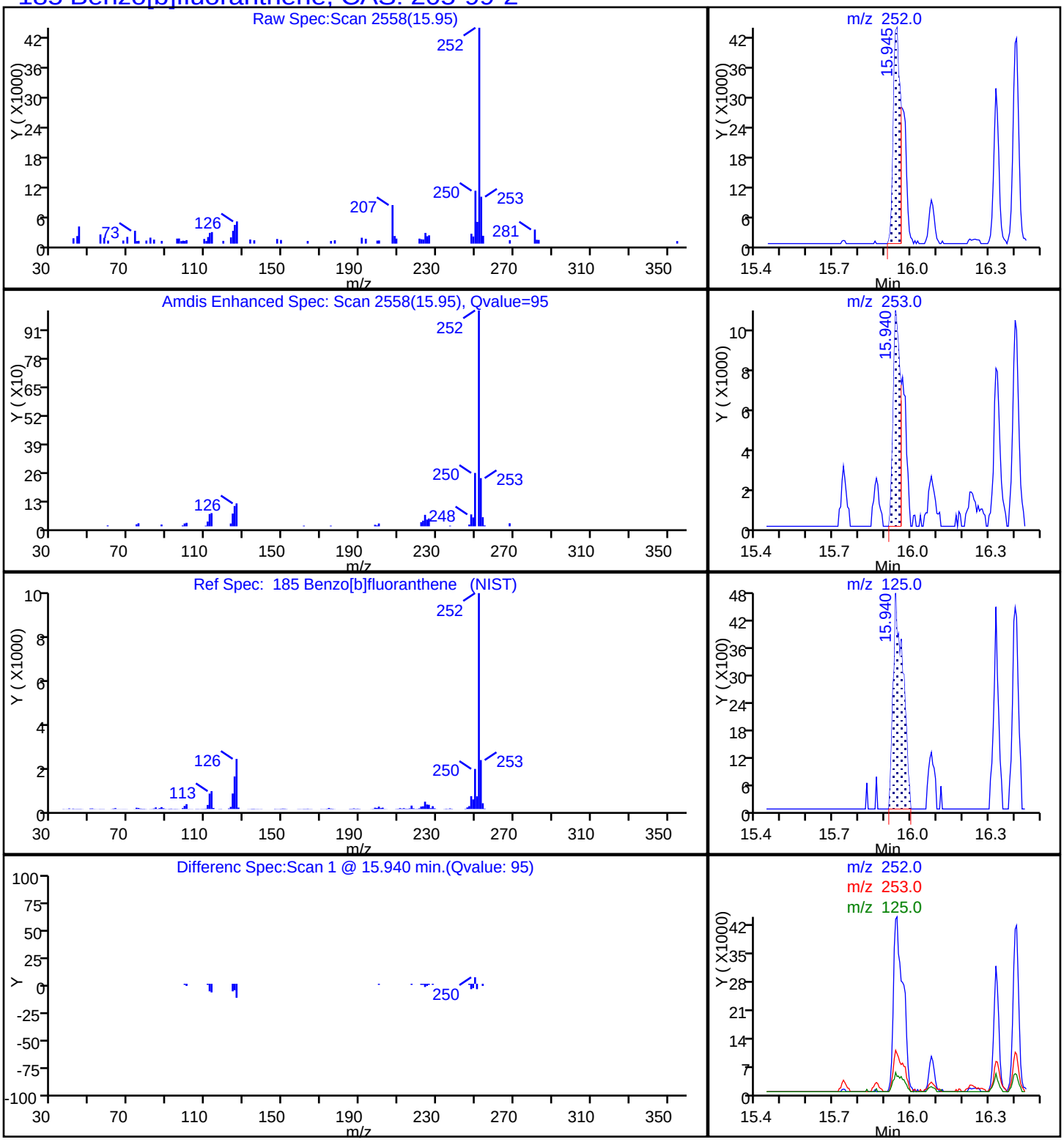
190 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

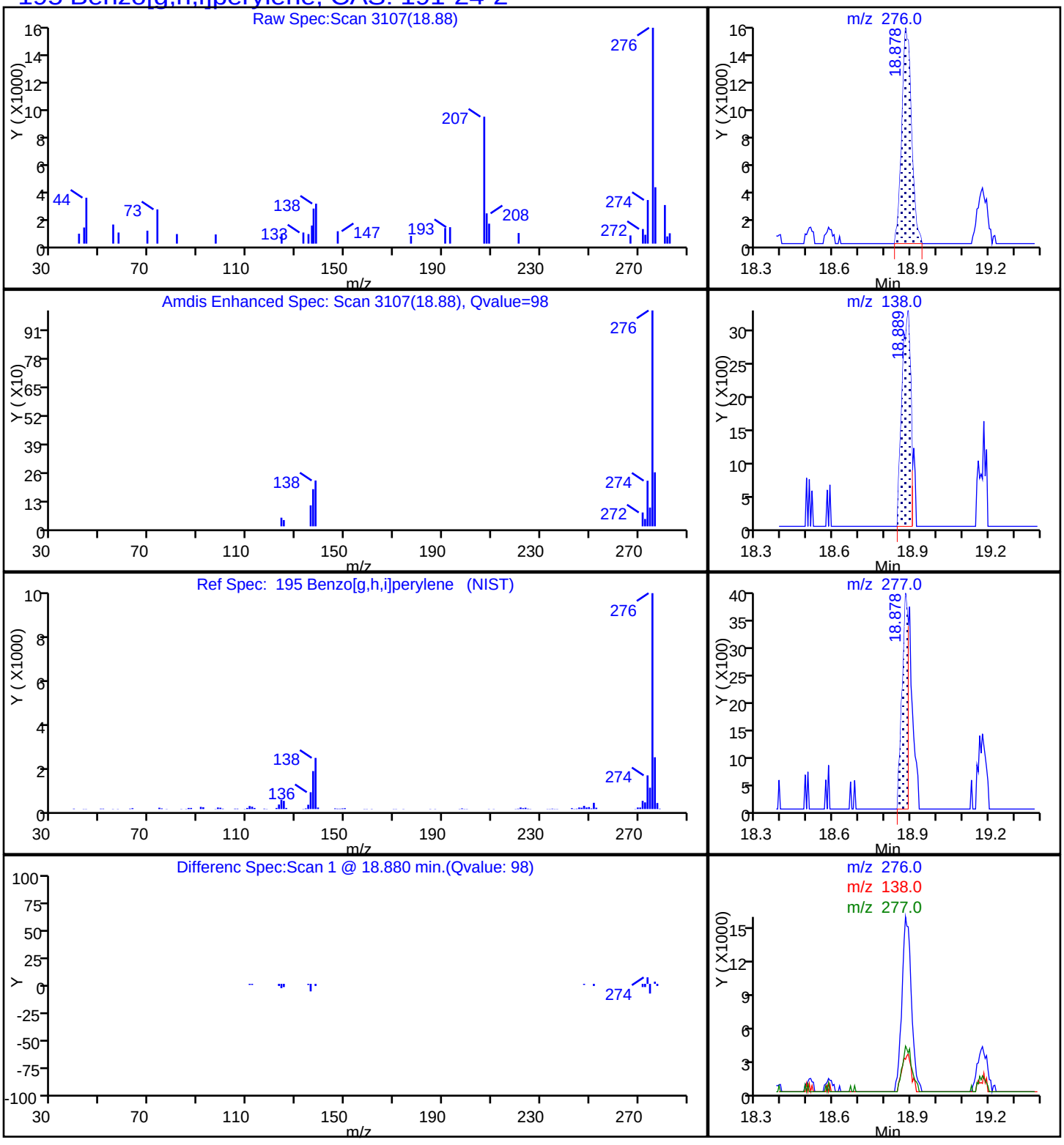
185 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

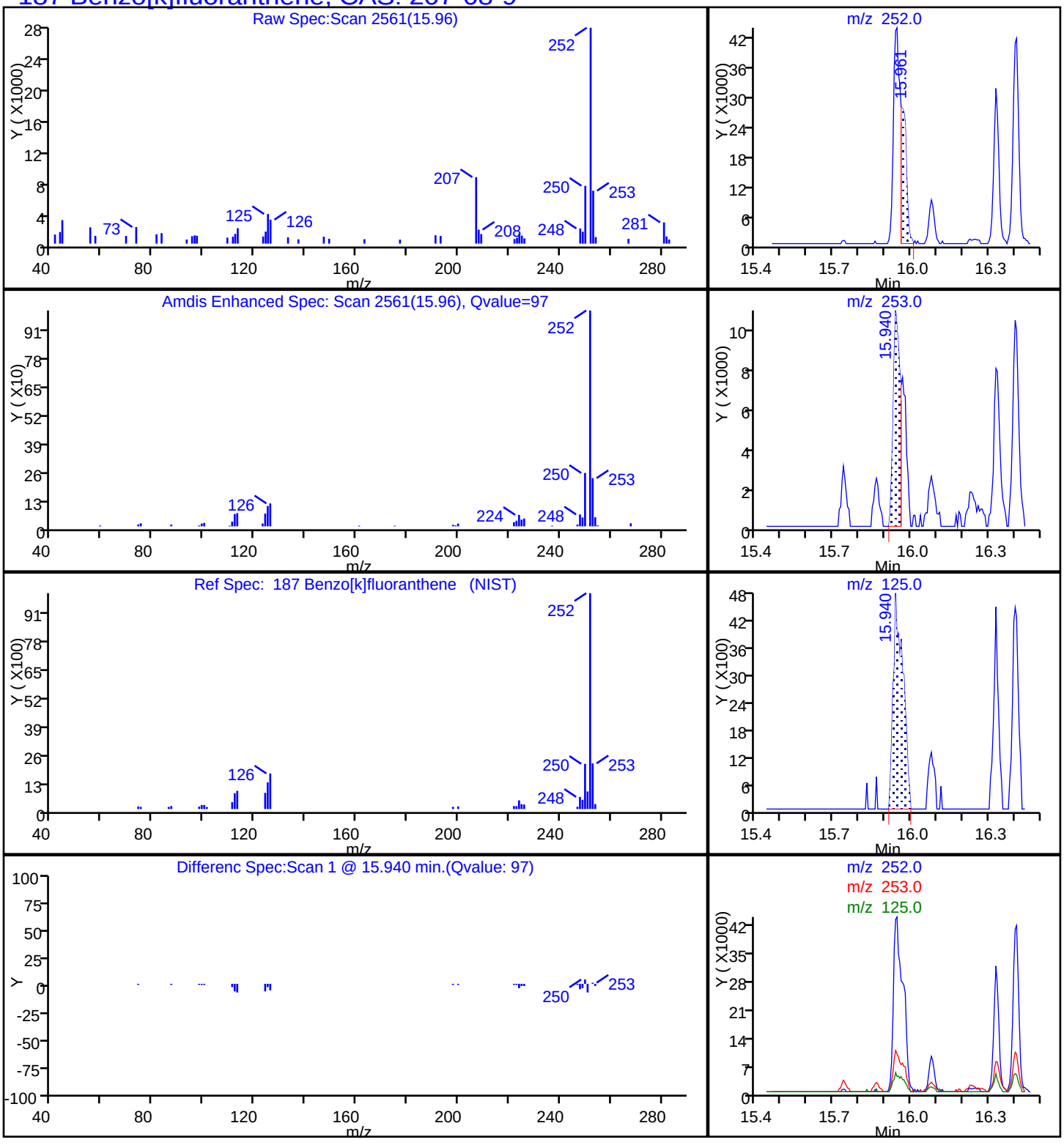
195 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

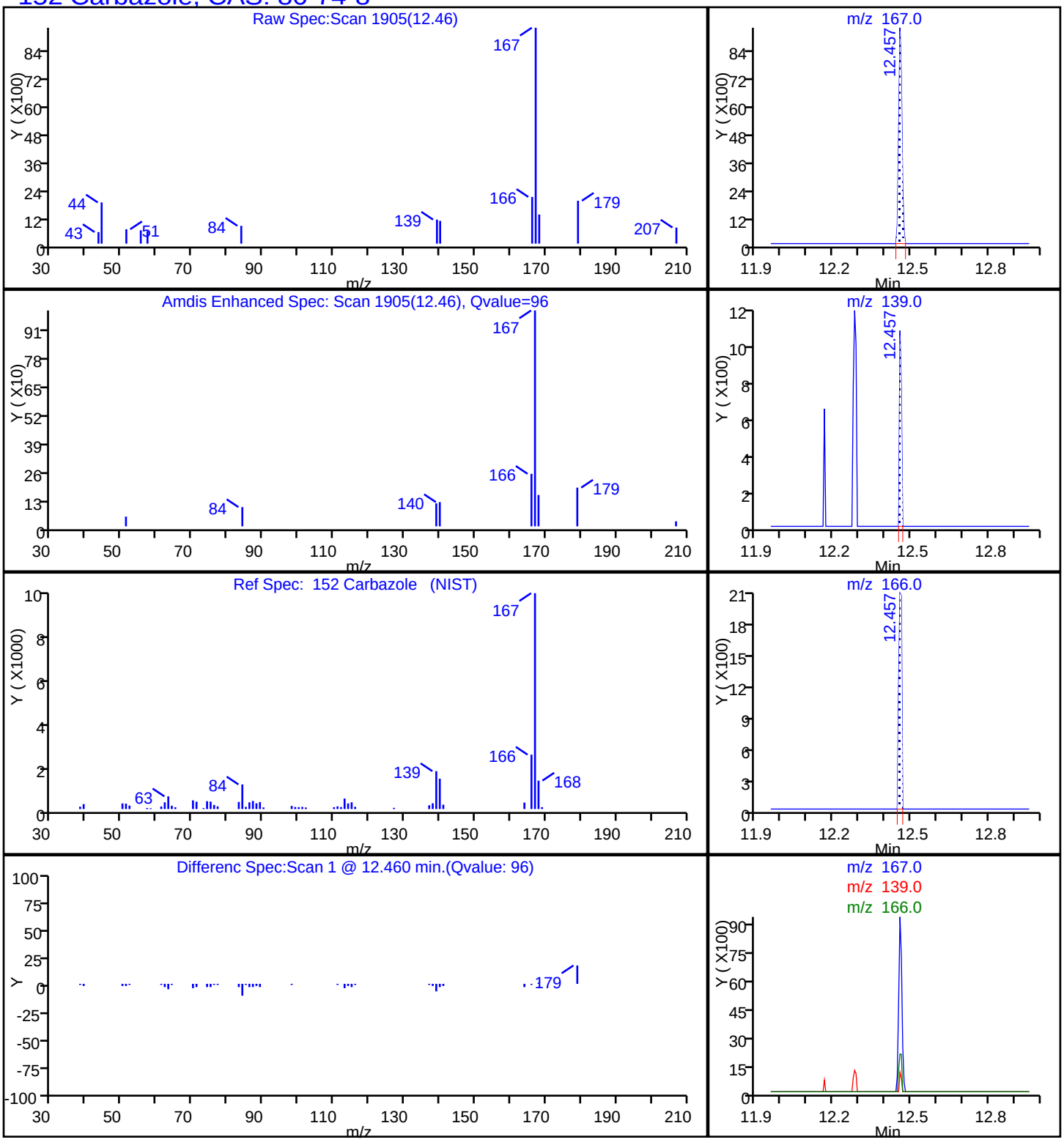
187 Benzo[k]fluoranthene, CAS: 207-08-9



Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D

Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

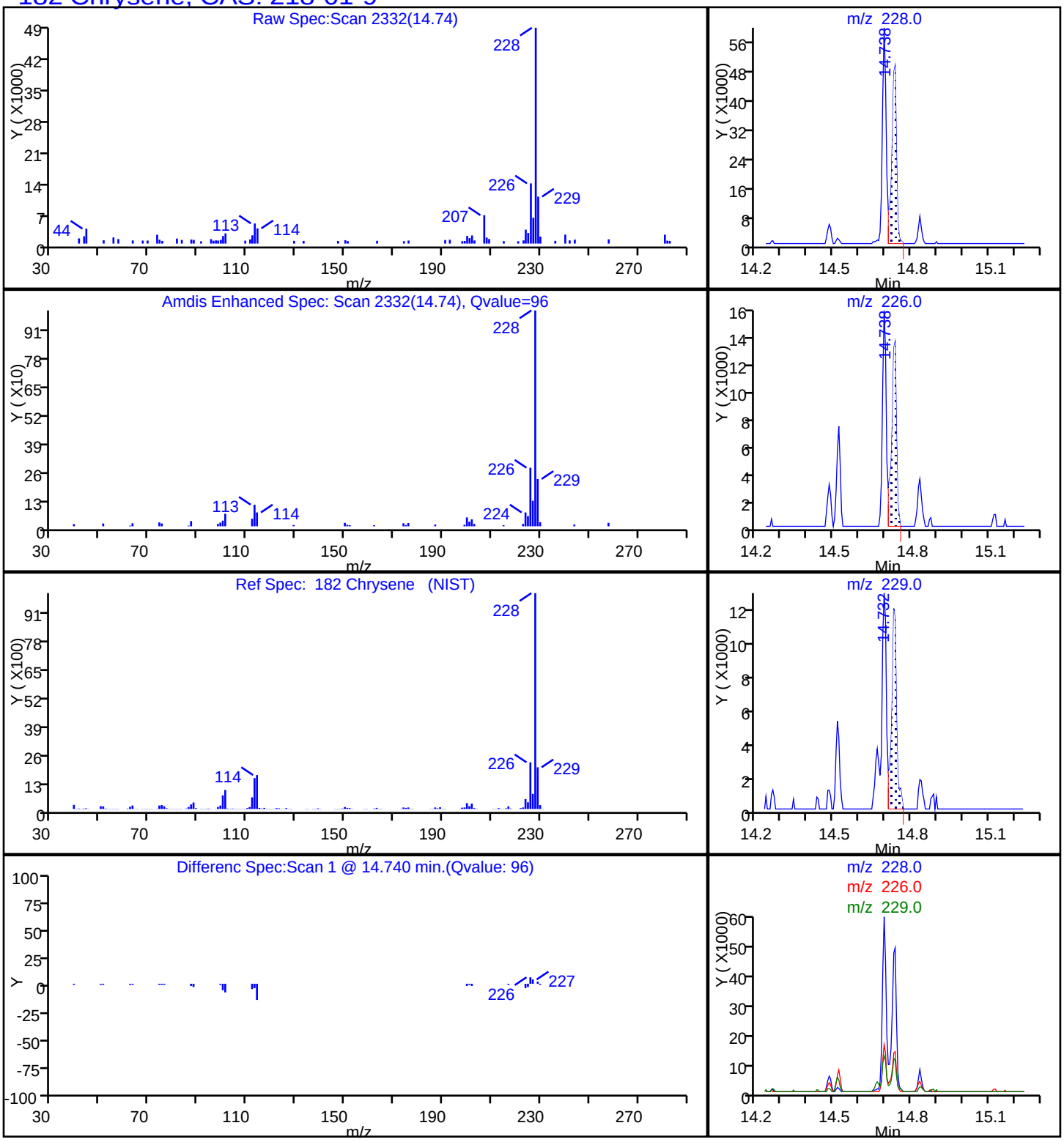
152 Carbazole, CAS: 86-74-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

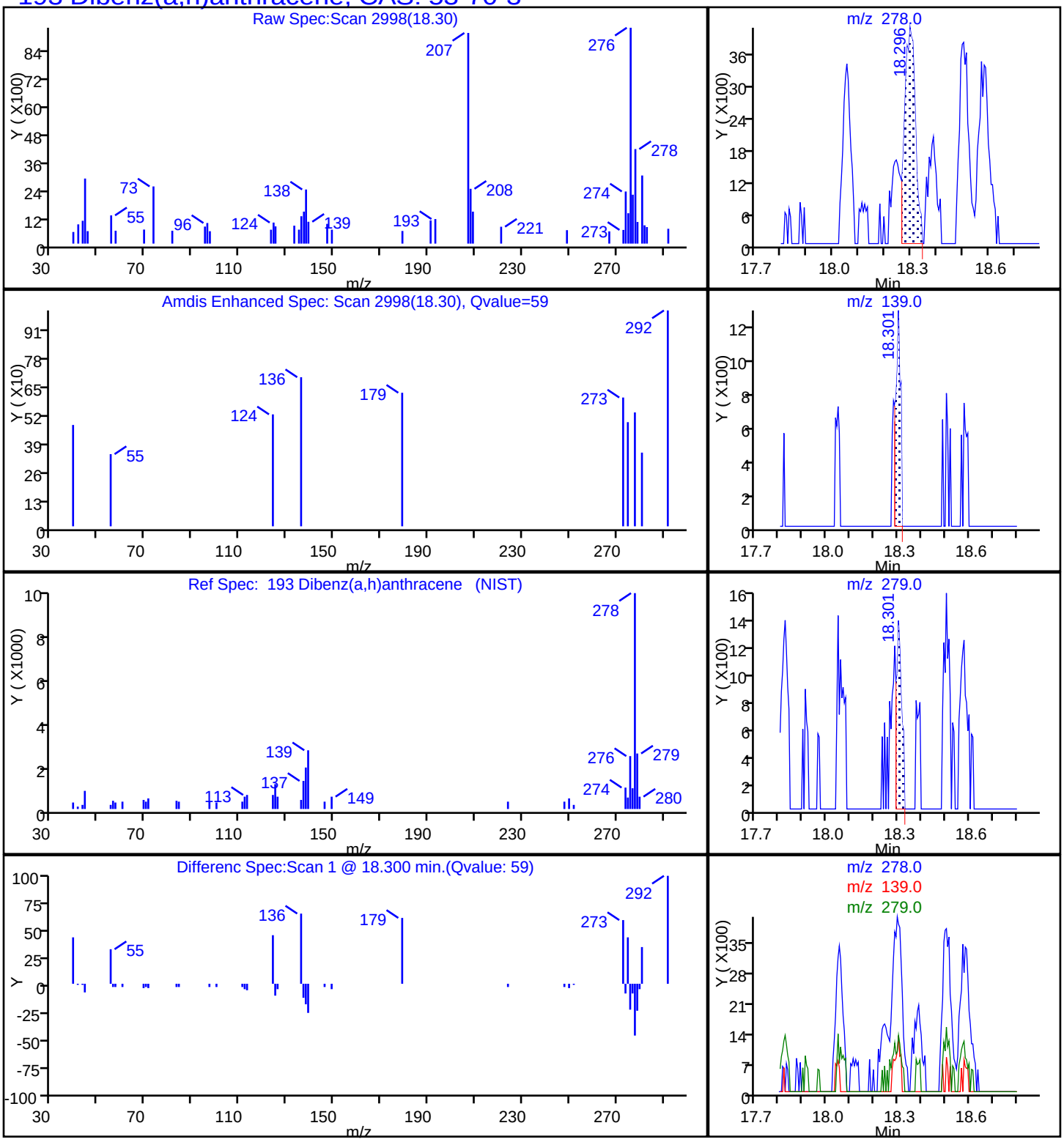
182 Chrysene, CAS: 218-01-9



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

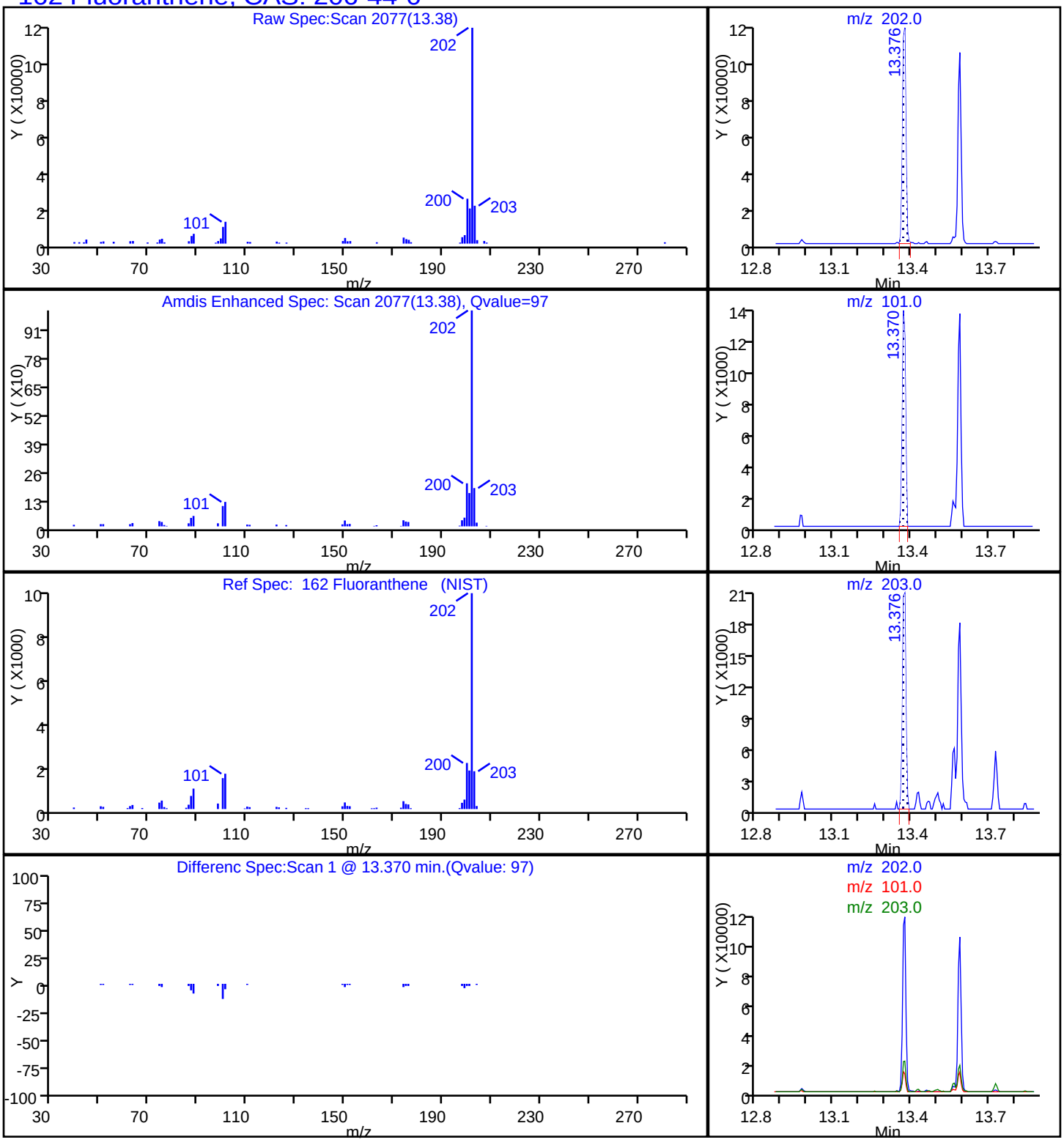
193 Dibenz(a,h)anthracene, CAS: 53-70-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

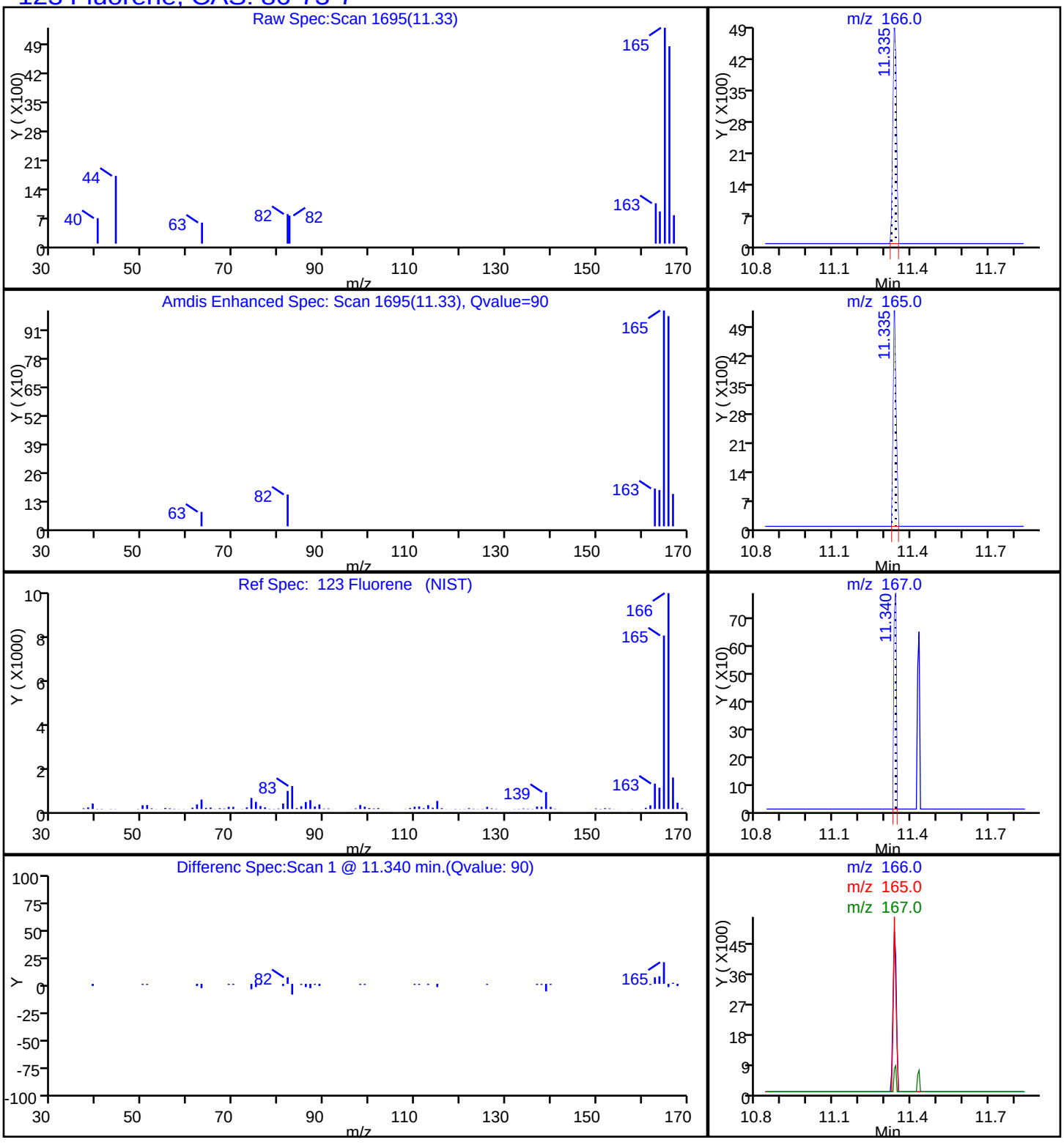
162 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

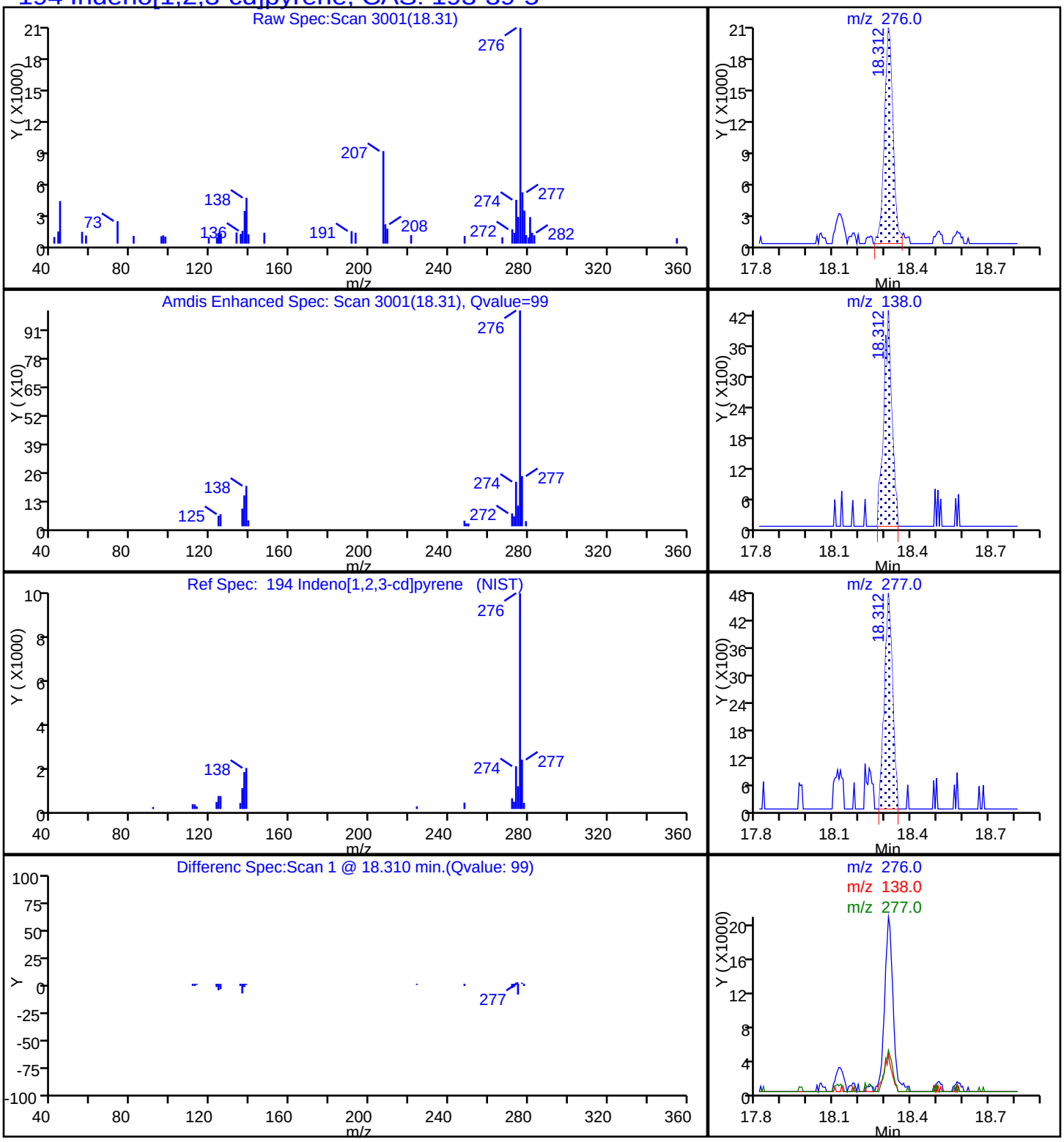
123 Fluorene, CAS: 86-73-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

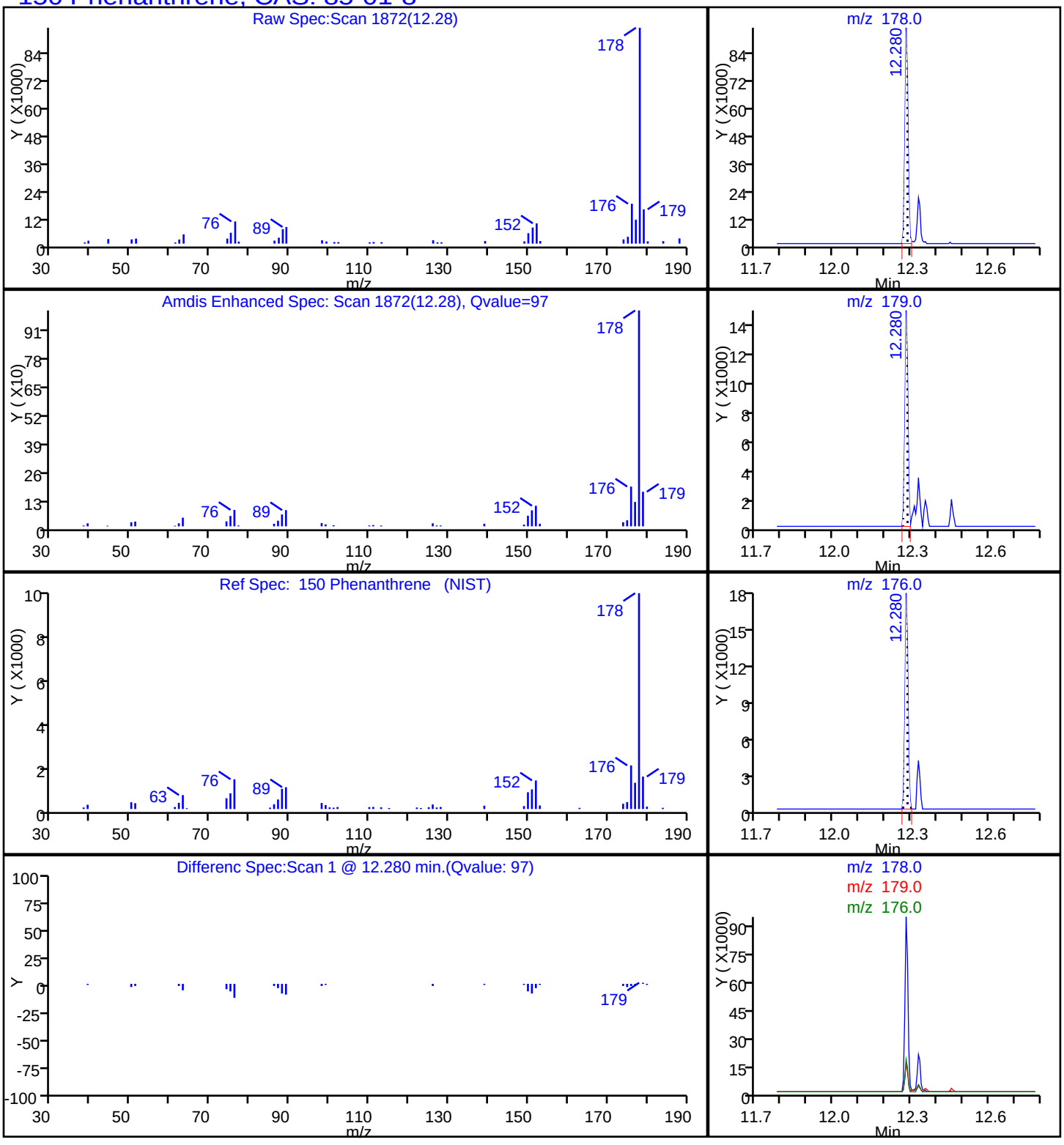
194 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

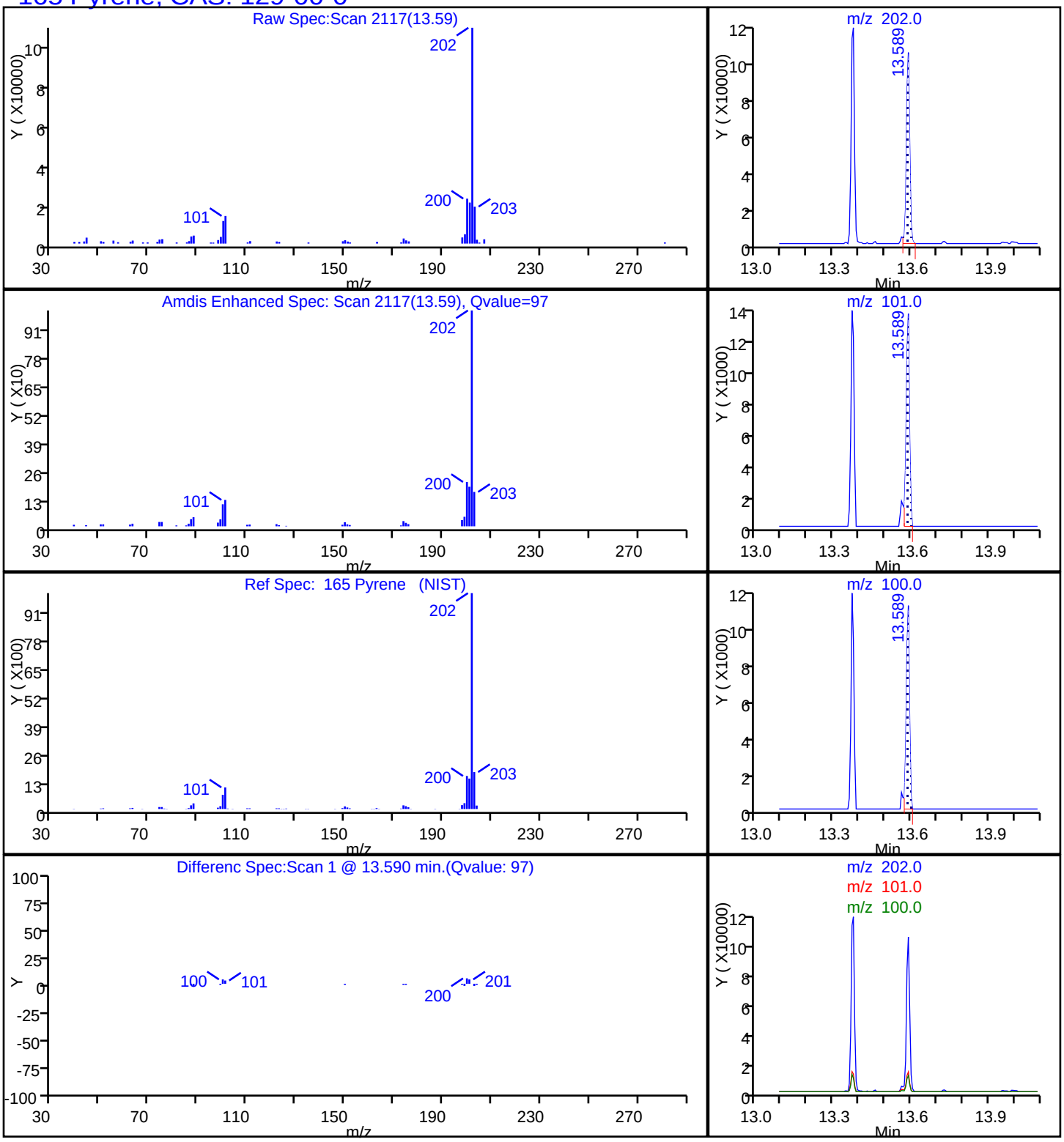
150 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

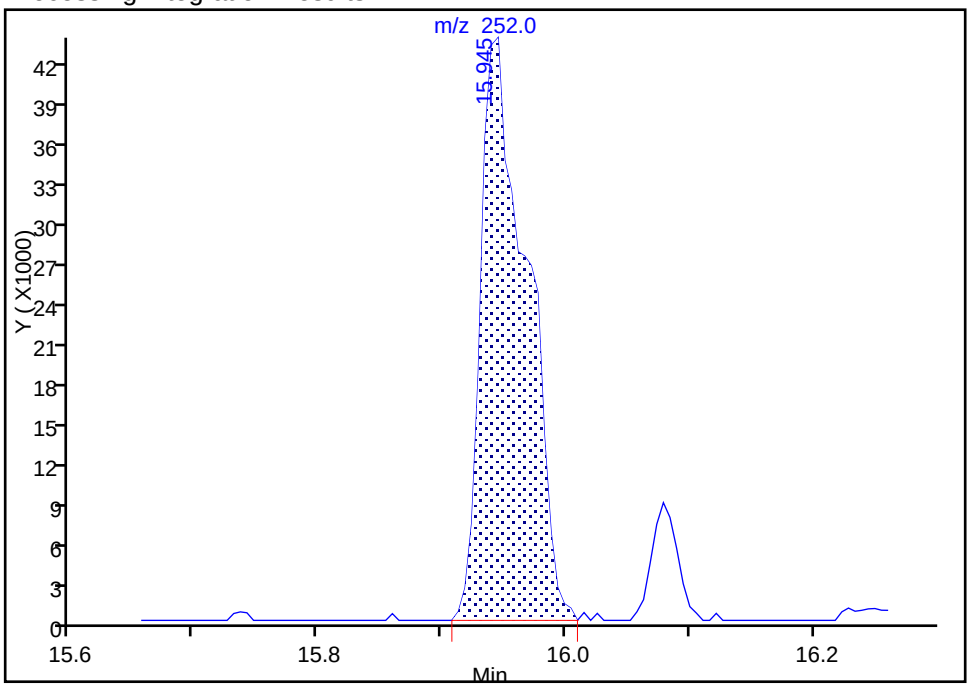
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

185 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

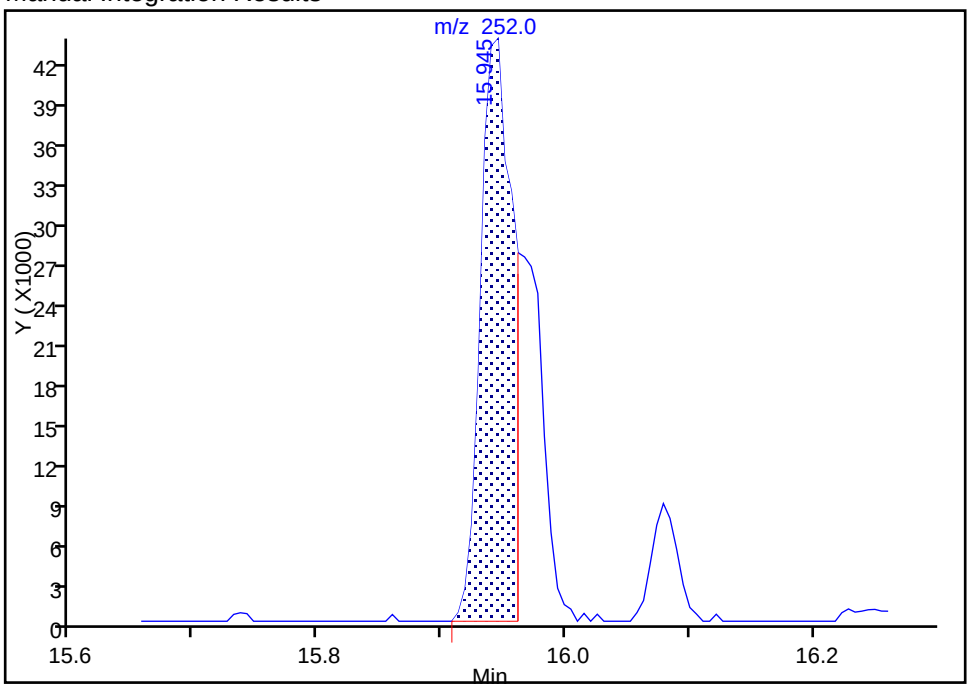
Processing Integration Results

RT: 15.95
Area: 111361
Amount: 8.017881
Amount Units: ng/uL



Manual Integration Results

RT: 15.95
Area: 78352
Amount: 5.641266
Amount Units: ng/uL



Reviewer: richardsd, 13-Nov-2017 11:50:20

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

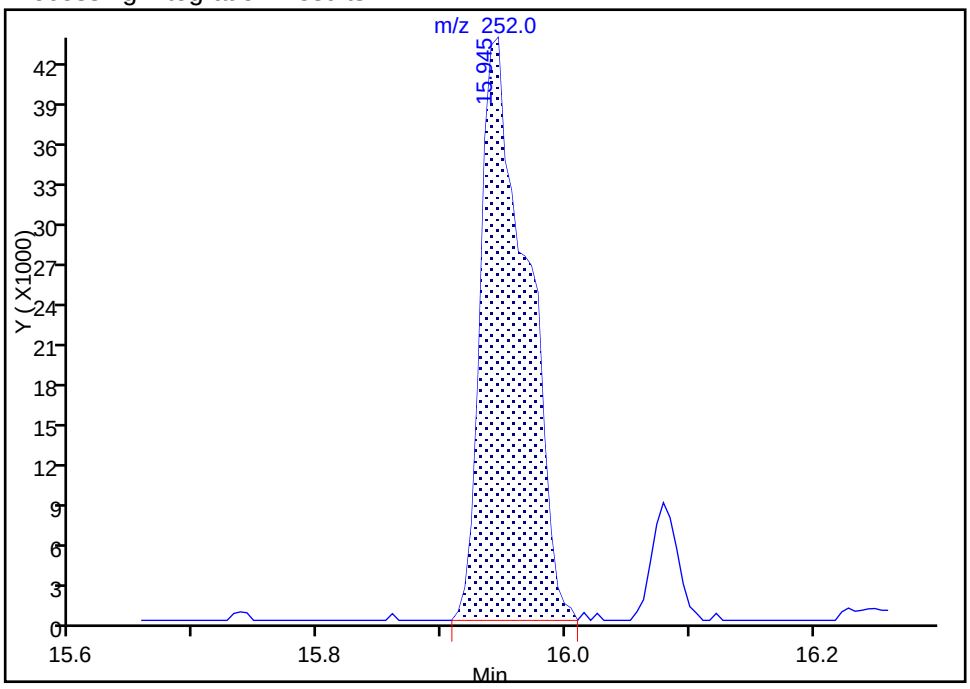
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328805.D				
Injection Date:	11-Nov-2017 03:06:30	Instrument ID:	HP5973U		
Lims ID:	480-127239-A-12-A	Lab Sample ID:	480-127239-12		
Client ID:	NS-DUP-SOIL 2-12"				
Operator ID:	DR	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

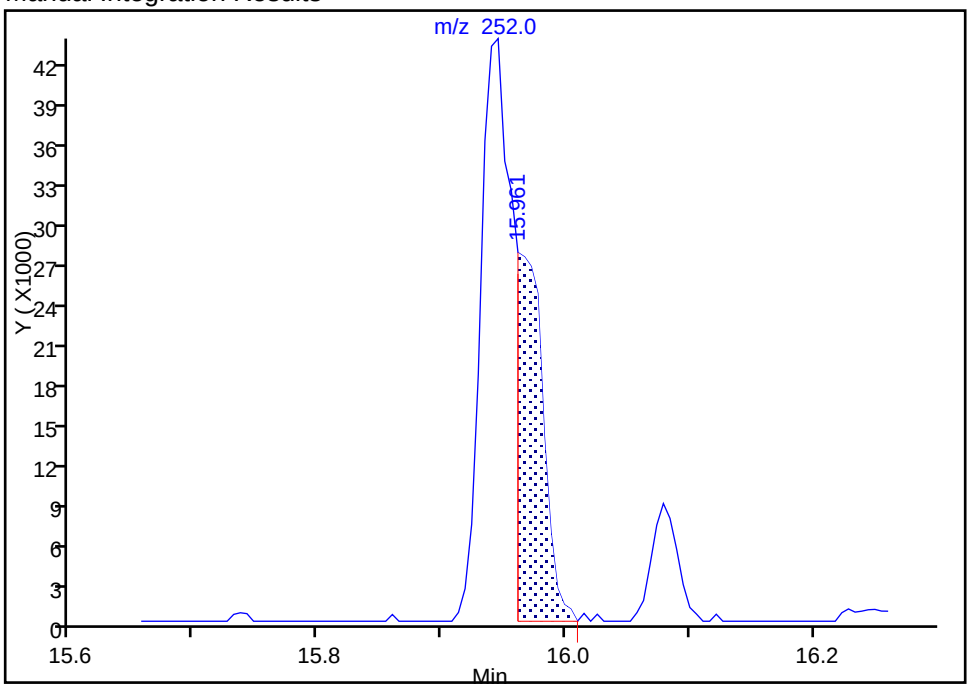
Processing Integration Results

RT: 15.95
Area: 111361
Amount: 7.815670
Amount Units: ng/uL



Manual Integration Results

RT: 15.96
Area: 41807
Amount: 2.934149
Amount Units: ng/uL



Reviewer: richardsd, 13-Nov-2017 11:50:15

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384467

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/29/2017 17:50 Calibration End Date: 10/29/2017 20:04 Calibration ID: 31851

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384467/3	U328553.D
Level 2	IC 480-384467/4	U328554.D
Level 3	ICIS 480-384467/5	U328555.D
Level 4	IC 480-384467/6	U328556.D
Level 5	IC 480-384467/7	U328557.D
Level 6	IC 480-384467/8	U328558.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.7033 0.6471	0.6555	0.6511	0.6300	0.6444	Ave		0.6552				3.8		20.0			
N-Nitrosodimethylamine	1.0041 1.0095	1.0359	0.9943	0.9891	0.9862	Ave		1.0032				1.8		20.0			
Pyridine	1.6667 1.6059	1.6606	1.5971	1.5681	1.5918	Ave		1.6151				2.5		20.0			
Benzaldehyde	1.2543 1.0939	1.2132	0.9900	1.1647	1.1383	Ave		1.1424			0.0100	8.2		20.0			
Phenol	1.7947 1.7017	1.7064	1.7065	1.6966	1.7137	Ave		1.7200			0.8000	2.2		20.0			
Aniline	2.1658 2.1138	2.1619	2.1129	2.1167	2.1193	Ave		2.1317				1.2		20.0			
Bis(2-chloroethyl)ether	1.5087 1.3726	1.4441	1.4070	1.3860	1.3696	Ave		1.4147			0.7000	3.8		20.0			
2-Chlorophenol	1.2712 1.3100	1.3019	1.3218	1.2707	1.3008	Ave		1.2961			0.8000	1.6		20.0			
n-Decane	2.2453 2.1405	2.3414	2.1711	2.0918	2.0903	Ave		2.1800			0.0100	4.5		20.0			
1,3-Dichlorobenzene	1.6019 1.6033	1.6811	1.5895	1.5557	1.5513	Ave		1.5971				2.9		20.0			
1,4-Dichlorobenzene	1.6568 1.5939	1.6068	1.6276	1.5708	1.5733	Ave		1.6049				2.1		20.0			
Benzyl alcohol	0.8702 0.8935	0.8613	0.8761	0.8812	0.8969	Ave		0.8799				1.5		20.0			
1,2-Dichlorobenzene	1.5658 1.5046	1.5480	1.4924	1.4640	1.4774	Ave		1.5087				2.7		20.0			
2-Methylphenol	1.2238 1.2071	1.1543	1.1840	1.2102	1.1903	Ave		1.1950			0.7000	2.1		20.0			
bis (2-chloroisopropyl) ether	2.7543 2.4905	2.7258	2.6208	2.5409	2.5027	Ave		2.6058			0.0100	4.4		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 Buffalo Job No.: 480-127239-1 Analy Batch No.: 384467

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/29/2017 17:50 Calibration End Date: 10/29/2017 20:04 Calibration ID: 31851

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Indene	2.4556 2.2088	2.3542	2.2893	2.2450	2.2327	Ave		2.2976				4.0		20.0			
4-Methylphenol	1.2229 1.2685	1.2273	1.2436	1.2483	1.2529	Ave		1.2439			0.6000	1.4		20.0			
N-Nitrosodi-n-propylamine	0.9519 1.0336	1.0607	1.0375	1.0279	1.0377	Ave		1.0249			0.5000	3.7		20.0			
Acetophenone	1.7583 1.7290	1.7815	1.7644	1.7335	1.7394	Ave		1.7510			0.0100	1.2		20.0			
Hexachloroethane	0.5908 0.5774	0.5945	0.5678	0.5584	0.5785	Ave		0.5779			0.3000	2.4		20.0			
Nitrobenzene	0.3938 0.4072	0.3938	0.4092	0.4003	0.4024	Ave		0.4011			0.2000	1.6		20.0			
Isophorone	0.6749 0.7055	0.7008	0.7098	0.7043	0.7011	Ave		0.6994			0.4000	1.8		20.0			
2-Nitrophenol	0.1459 0.1845	0.1537	0.1698	0.1731	0.1806	Lin1	-0.276	0.1816			0.1000				0.9990		0.9900
2,4-Dimethylphenol	0.3537 0.3611	0.3615	0.3617	0.3590	0.3572	Ave		0.3591			0.2000	0.9		20.0			
Benzoic acid	0.1088 0.2481	0.1567	0.1943	0.2139	0.2353	Lin1	-2.808	0.2392							0.9930		0.9900
Bis(2-chloroethoxy)methane	0.4566 0.4230	0.4449	0.4392	0.4258	0.4233	Ave		0.4355			0.3000	3.2		20.0			
2,4-Dichlorophenol	0.2968 0.3159	0.2886	0.3092	0.3132	0.3126	Ave		0.3060			0.2000	3.6		20.0			
1,2,4-Trichlorobenzene	0.3851 0.3582	0.3684	0.3591	0.3566	0.3528	Ave		0.3634				3.3		20.0			
Naphthalene	1.0937 0.9642	1.0116	0.9915	0.9693	0.9608	Ave		0.9985			0.7000	5.1		20.0			
4-Chloroaniline	0.4449 0.4218	0.4011	0.4271	0.4107	0.4152	Ave		0.4201			0.0100	3.6		20.0			
2,6-Dichlorophenol	0.2978 0.3069	0.3044	0.3076	0.3031	0.3043	Ave		0.3040				1.2		20.0			
Hexachlorobutadiene	0.2323 0.2338	0.2353	0.2362	0.2288	0.2296	Ave		0.2327			0.0100	1.3		20.0			
Caprolactam	0.0684 0.1096	0.0933	0.1022	0.1032	0.1036	Lin1	-0.223	0.1077			0.0100				0.9990		0.9900
4-Chloro-3-methylphenol	0.2693 0.3015	0.2774	0.2905	0.2943	0.2951	Ave		0.2880			0.2000	4.2		20.0			
2-Methylnaphthalene	0.6801 0.6735	0.6959	0.6861	0.6742	0.6780	Ave		0.6813			0.4000	1.2		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 Buffalo Job No.: 480-127239-1 Analy Batch No.: 384467

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/29/2017 17:50 Calibration End Date: 10/29/2017 20:04 Calibration ID: 31851

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.7088 0.6401	0.6554	0.6551	0.6279	0.6337	Ave		0.6535			0.0100	4.5		20.0			
Hexachlorocyclopentadiene	0.3841 0.5603	0.4667	0.5139	0.5127	0.5253	Lin1	-1.019	0.5443			0.0500				0.9980		0.9900
1,2,4,5-Tetrachlorobenzene	0.7780 0.7400	0.7170	0.7271	0.7066	0.7047	Ave		0.7289			0.0100	3.8		20.0			
2,4,6-Trichlorophenol	0.4177 0.4862	0.4139	0.4449	0.4552	0.4560	Ave		0.4456			0.2000	6.1		20.0			
2,4,5-Trichlorophenol	0.4104 0.5130	0.4521	0.4691	0.4856	0.4864	Lin1	-0.620	0.5001			0.2000				0.9990		0.9900
Biphenyl	1.7397 1.6747	1.6848	1.6813	1.6341	1.6168	Ave		1.6719			0.0100	2.6		20.0			
2-Chloronaphthalene	1.4750 1.3473	1.3330	1.3372	1.3136	1.3109	Ave		1.3528			0.8000	4.5		20.0			
2-Nitroaniline	0.3057 0.4638	0.3687	0.4060	0.4301	0.4293	Lin1	-0.970	0.4486			0.0100				0.9980		0.9900
Dimethyl phthalate	1.5048 1.5411	1.5099	1.4855	1.5115	1.4705	Ave		1.5039			0.0100	1.6		20.0			
1,3-Dinitrobenzene	0.0720 0.1336	0.0917	0.1067	0.1197	0.1263	Lin1	-0.419	0.1291							0.9950		0.9900
2,6-Dinitrotoluene	0.2853 0.3784	0.3040	0.3303	0.3444	0.3533	Lin1	-0.632	0.3639							0.9970		0.9900
Acenaphthylene	1.9475 1.9452	1.8692	1.8711	1.8659	1.8506	Ave		1.8916			0.9000	2.3		20.0			
3-Nitroaniline	0.2739 0.3819	0.3135	0.3316	0.3607	0.3572	Lin1	-0.687	0.3705			0.0100				0.9980		0.9900
2,4-Dinitrophenol	0.0732 +++++	0.1189	0.1628	0.1821	0.2002	Lin1	-1.624	0.1947			0.0100				0.9910		0.9900
Acenaphthene	1.3591 1.3150	1.3001	1.2831	1.2675	1.2549	Ave		1.2966			0.9000	2.9		20.0			
4-Nitrophenol	0.1544 0.2327	0.1802	0.1966	0.2052	0.2097	Lin1	-0.973	0.2205			0.0100				0.9950		0.9900
2,4-Dinitrotoluene	0.3197 0.5105	0.3961	0.4267	0.4566	0.4575	Lin1	-1.148	0.4847			0.2000				0.9960		0.9900
Dibenzofuran	2.0018 1.8793	1.8680	1.8253	1.8092	1.7810	Ave		1.8608			0.8000	4.2		20.0			
2,3,4,6-Tetrachlorophenol	0.3517 0.4800	0.3726	0.4040	0.4243	0.4375	Lin1	-0.873	0.4549			0.0100				0.9950		0.9900
Diethyl phthalate	1.5114 1.5238	1.4425	1.4370	1.4500	1.4200	Ave		1.4641			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 SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384467

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/29/2017 17:50 Calibration End Date: 10/29/2017 20:04 Calibration ID: 31851

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexadecane	1.3045 1.1930	1.2509	1.2368	1.1860	1.1640	Ave		1.2225			0.0100	4.2		20.0			
4-Chlorophenyl phenyl ether	0.8676 0.8491	0.8228	0.8019	0.8043	0.7947	Ave		0.8234			0.4000	3.5		20.0			
4-Nitroaniline	0.2936 0.4207	0.3450	0.3712	0.3886	0.3854	Lin1	-0.756	0.4049			0.0100				0.9980		0.9900
Fluorene	1.5731 1.5728	1.5232	1.5004	1.5054	1.4677	Ave		1.5238			0.9000	2.8		20.0			
4,6-Dinitro-2-methylphenol	0.0618 0.1370	0.0861	0.1128	0.1198	0.1306	Lin1	-1.012	0.1331			0.0100				0.9940		0.9900
Diphenylamine	0.6694 0.6407	0.6499	0.6516	0.6289	0.6462	Ave		0.6478				2.1		20.0			
N-Nitrosodiphenylamine	0.5724 0.5478	0.5557	0.5571	0.5377	0.5525	Ave		0.5539			0.0100	2.1		20.0			
1,2-Diphenylhydrazine	0.7820 0.7523	0.7912	0.7917	0.7523	0.7646	Ave		0.7724				2.4		20.0			
trans-Azobenzene	0.7820 0.7523	0.7912	0.7917	0.7523	0.7646	Ave		0.7724				2.4		20.0			
4-Bromophenyl phenyl ether	0.2641 0.2571	0.2592	0.2603	0.2531	0.2645	Ave		0.2597			0.1000	1.7		20.0			
Hexachlorobenzene	0.2769 0.2715	0.2681	0.2727	0.2646	0.2720	Ave		0.2709			0.1000	1.6		20.0			
Atrazine	0.3927 0.4603	0.4356	0.4392	0.4306	0.4269	Ave		0.4309			0.0100	5.1		20.0			
n-Octadecane	0.6011 0.5718	0.6301	0.6245	0.5865	0.5903	Ave		0.6007			0.0100	3.8		20.0			
Pentachlorophenol	0.1061 0.1778	0.1394	0.1609	0.1660	0.1734	Lin1	-0.893	0.1760			0.0500				0.9990		0.9900
Phenanthrene	1.2235 1.1180	1.1696	1.1695	1.1200	1.1230	Ave		1.1540			0.7000	3.6		20.0			
Anthracene	1.2005 1.1733	1.2075	1.2186	1.1734	1.1756	Ave		1.1915			0.7000	1.7		20.0			
Carbazole	1.0797 1.0432	1.0609	1.0612	1.0453	1.0362	Ave		1.0544			0.0100	1.5		20.0			
Di-n-butyl phthalate	1.1424 1.2097	1.2051	1.2098	1.2016	1.1964	Ave		1.1942			0.0100	2.2		20.0			
Fluoranthene	1.3246 1.3417	1.3133	1.3264	1.3167	1.3122	Ave		1.3225			0.6000	0.8		20.0			
Benzidine	0.4879 0.5245	0.5355	0.4870	0.5528	0.5449	Ave		0.5221				5.4		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 Buffalo Job No.: 480-127239-1 Analy Batch No.: 384467

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/29/2017 17:50 Calibration End Date: 10/29/2017 20:04 Calibration ID: 31851

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Pyrene	0.9353 0.8598	0.9267	0.9021	0.8715	0.8763	Ave		0.8953			0.6000	3.5		20.0			
Butyl benzyl phthalate	0.4036 0.4037	0.3788	0.3965	0.3961	0.4054	Ave		0.3973			0.0100	2.5		20.0			
Bis(2-ethylhexyl) phthalate	0.5076 0.5598	0.5254	0.5522	0.5513	0.5640	Ave		0.5434			0.0100	4.1		20.0			
3,3'-Dichlorobenzidine	0.4303 0.4718	0.4503	0.4643	0.4710	0.4731	Ave		0.4601			0.0100	3.7		20.0			
Benzo(a)anthracene	1.2520 1.0992	1.1497	1.1433	1.1242	1.1225	Ave		1.1485			0.8000	4.7		20.0			
Chrysene	1.2044 1.0633	1.1123	1.1083	1.0875	1.0720	Ave		1.1080			0.7000	4.6		20.0			
Di-n-octyl phthalate	0.9186 1.0308	0.9534	1.0132	1.0225	1.0353	Ave		0.9956			0.0100	4.8		20.0			
Benzo(b)fluoranthene	1.1540 1.1967	1.2121	1.1501	1.1921	1.1318	Ave		1.1728			0.7000	2.7		20.0			
Benzo(k)fluoranthene	1.2816 1.1809	1.1773	1.1881	1.1763	1.2145	Ave		1.2031			0.7000	3.4		20.0			
Benzo(a)pyrene	1.1479 1.1578	1.1187	1.1373	1.1354	1.1448	Ave		1.1403			0.7000	1.2		20.0			
Dibenz(a,h)anthracene	1.0961 1.0870	1.0248	1.1254	1.0538	1.0995	Ave		1.0811				3.3		20.0			
Indeno(1,2,3-cd)pyrene	1.2915 1.2768	1.2061	1.3279	1.2336	1.3015	Ave		1.2729			0.5000	3.6		20.0			
Benzo(g,h,i)perylene	1.0376 1.0031	0.9647	1.0580	0.9639	1.0077	Ave		1.0058			0.5000	3.8		20.0			
2-Fluorophenol	1.4055 1.3506	1.3394	1.3203	1.2906	1.3260	Ave		1.3387				2.9		20.0			
Phenol-d5	1.6582 1.6561	1.6148	1.6489	1.6415	1.6549	Ave		1.6457				1.0		20.0			
Nitrobenzene-d5	0.4181 0.4440	0.4316	0.4411	0.4342	0.4404	Ave		0.4349				2.2		20.0			
2-Fluorobiphenyl	1.6547 1.5678	1.5587	1.5451	1.5247	1.5067	Ave		1.5596				3.3		20.0			
2,4,6-Tribromophenol	0.0947 0.1386	0.1172	0.1230	0.1283	0.1343	Lin1	-0.267	0.1359							0.9980		0.9900
p-Terphenyl-d14	0.7509 0.7062	0.7276	0.7221	0.7060	0.7076	Ave		0.7201				2.4		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
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384467

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/29/2017 17:50 Calibration End Date: 10/29/2017 20:04 Calibration ID: 31851

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384467/3	U328553.D
Level 2	IC 480-384467/4	U328554.D
Level 3	ICIS 480-384467/5	U328555.D
Level 4	IC 480-384467/6	U328556.D
Level 5	IC 480-384467/7	U328557.D
Level 6	IC 480-384467/8	U328558.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	5237 144304	19668	52438	74204	114163	5.00 160	20.0	50.0	80.0	120
N-Nitrosodimethylamine	DCBd 4	Ave	7477 225121	31084	80081	116504	174729	5.00 160	20.0	50.0	80.0	120
Pyridine	DCBd 4	Ave	24821 716265	99657	257259	369401	564066	10.0 320	40.0	100	160	240
Benzaldehyde	DCBd 4	Ave	9340 243947	36404	79737	137192	201678	5.00 160	20.0	50.0	80.0	120
Phenol	DCBd 4	Ave	13364 379481	51202	137441	199845	303625	5.00 160	20.0	50.0	80.0	120
Aniline	DCBd 4	Ave	16127 471392	64870	170169	249318	375489	5.00 160	20.0	50.0	80.0	120
Bis(2-chloroethyl)ether	DCBd 4	Ave	11234 306091	43330	113321	163249	242662	5.00 160	20.0	50.0	80.0	120
2-Chlorophenol	DCBd 4	Ave	9466 292138	39063	106453	149670	230473	5.00 160	20.0	50.0	80.0	120
n-Decane	DCBd 4	Ave	16719 477337	70254	174856	246384	370343	5.00 160	20.0	50.0	80.0	120
1,3-Dichlorobenzene	DCBd 4	Ave	11928 357536	50441	128017	183237	274842	5.00 160	20.0	50.0	80.0	120
1,4-Dichlorobenzene	DCBd 4	Ave	12337 355435	48214	131086	185016	278749	5.00 160	20.0	50.0	80.0	120
Benzyl alcohol	DCBd 4	Ave	6480 199259	25845	70557	103792	158900	5.00 160	20.0	50.0	80.0	120
1,2-Dichlorobenzene	DCBd 4	Ave	11659 335526	46448	120195	172444	261760	5.00 160	20.0	50.0	80.0	120
2-Methylphenol	DCBd 4	Ave	9113 269196	34635	95359	142542	210894	5.00 160	20.0	50.0	80.0	120
bis (2-chloroisopropyl) ether	DCBd 4	Ave	20509 555388	81790	211077	299289	443416	5.00 160	20.0	50.0	80.0	120
Indene	DCBd 4	Ave	54855 1477723	211914	553139	793303	1186703	15.0 480	60.0	150	240	360

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384467

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/29/2017 17:50 Calibration End Date: 10/29/2017 20:04 Calibration ID: 31851

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methylphenol	DCBd 4	Ave	9106 282885	36825	100158	147030	221976	5.00 160	20.0	50.0	80.0	120
N-Nitrosodi-n-propylamine	DCBd 4	Ave	7088 230496	31828	83556	121078	183848	5.00 160	20.0	50.0	80.0	120
Acetophenone	DCBd 4	Ave	13093 385585	53454	142100	204189	308179	5.00 160	20.0	50.0	80.0	120
Hexachloroethane	DCBd 4	Ave	4399 128759	17839	45729	65774	102503	5.00 160	20.0	50.0	80.0	120
Nitrobenzene	NPT	Ave	10455 327093	42585	118992	170545	260851	5.00 160	20.0	50.0	80.0	120
Isophorone	NPT	Ave	17919 566671	75770	206415	300062	454505	5.00 160	20.0	50.0	80.0	120
2-Nitrophenol	NPT	Lin1	3873 148208	16617	49387	73763	117100	5.00 160	20.0	50.0	80.0	120
2,4-Dimethylphenol	NPT	Ave	9392 290097	39086	105193	152970	231535	5.00 160	20.0	50.0	80.0	120
Benzoic acid	NPT	Lin1	8670 597760	50825	169533	273432	457682	15.0 480	60.0	150	240	360
Bis(2-chloroethoxy)methane	NPT	Ave	12122 339794	48101	127725	181418	274401	5.00 160	20.0	50.0	80.0	120
2,4-Dichlorophenol	NPT	Ave	7880 253728	31200	89915	133451	202666	5.00 160	20.0	50.0	80.0	120
1,2,4-Trichlorobenzene	NPT	Ave	10225 287743	39836	104423	151949	228675	5.00 160	20.0	50.0	80.0	120
Naphthalene	NPT	Ave	29039 774473	109378	288325	412971	622822	5.00 160	20.0	50.0	80.0	120
4-Chloroaniline	NPT	Ave	11813 338812	43365	124193	174986	269160	5.00 160	20.0	50.0	80.0	120
2,6-Dichlorophenol	NPT	Ave	7906 246514	32918	89449	129125	197284	5.00 160	20.0	50.0	80.0	120
Hexachlorobutadiene	NPT	Ave	6167 187842	25444	68686	97471	148816	5.00 160	20.0	50.0	80.0	120
Caprolactam	NPT	Lin1	1817 88002	10084	29719	43983	67135	5.00 160	20.0	50.0	80.0	120
4-Chloro-3-methylphenol	NPT	Ave	7150 242206	29992	84472	125378	191307	5.00 160	20.0	50.0	80.0	120
2-Methylnaphthalene	NPT	Ave	18058 541008	75247	199512	287265	439495	5.00 160	20.0	50.0	80.0	120
1-Methylnaphthalene	NPT	Ave	18819 514193	70864	190515	267529	410814	5.00 160	20.0	50.0	80.0	120
Hexachlorocyclopentadiene	ANT	Lin1	5032 223126	25792	75164	110960	174419	5.00 160	20.0	50.0	80.0	120

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384467

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/29/2017 17:50 Calibration End Date: 10/29/2017 20:04 Calibration ID: 31851

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	10193 294701	39624	106357	152939	233996	5.00 160	20.0	50.0	80.0	120
2,4,6-Trichlorophenol	ANT	Ave	5472 193620	22870	65076	98517	151400	5.00 160	20.0	50.0	80.0	120
2,4,5-Trichlorophenol	ANT	Lin1	5377 204273	24982	68611	105089	161510	5.00 160	20.0	50.0	80.0	120
Biphenyl	ANT	Ave	22792 666906	93104	245927	353664	536864	5.00 160	20.0	50.0	80.0	120
2-Chloronaphthalene	ANT	Ave	19324 536552	73661	195592	284296	435281	5.00 160	20.0	50.0	80.0	120
2-Nitroaniline	ANT	Lin1	4005 184689	20375	59382	93094	142548	5.00 160	20.0	50.0	80.0	120
Dimethyl phthalate	ANT	Ave	19715 613702	83436	217282	327133	488289	5.00 160	20.0	50.0	80.0	120
1,3-Dinitrobenzene	NPT	Lin1	1913 107335	9917	31020	50981	81880	5.00 160	20.0	50.0	80.0	120
2,6-Dinitrotoluene	ANT	Lin1	3738 150685	16800	48314	74545	117304	5.00 160	20.0	50.0	80.0	120
Acenaphthylene	ANT	Ave	25515 774627	103294	273680	403843	614483	5.00 160	20.0	50.0	80.0	120
3-Nitroaniline	ANT	Lin1	3589 152101	17324	48505	78058	118612	5.00 160	20.0	50.0	80.0	120
2,4-Dinitrophenol	ANT	Lin1	1918 +++++	13143	47613	78841	132947	10.0 +++++	40.0	100	160	240
Acenaphthene	ANT	Ave	17806 523669	71843	187682	274324	416676	5.00 160	20.0	50.0	80.0	120
4-Nitrophenol	ANT	Lin1	4046 185360	19914	57505	88803	139248	10.0 320	40.0	100	160	240
2,4-Dinitrotoluene	ANT	Lin1	4189 203293	21891	62410	98822	151903	5.00 160	20.0	50.0	80.0	120
Dibenzofuran	ANT	Ave	26226 748397	103225	266985	391570	591369	5.00 160	20.0	50.0	80.0	120
2,3,4,6-Tetrachlorophenol	ANT	Lin1	4608 191169	20592	59088	91827	145262	5.00 160	20.0	50.0	80.0	120
Diethyl phthalate	ANT	Ave	19801 606802	79716	210186	313819	471497	5.00 160	20.0	50.0	80.0	120
Hexadecane	ANT	Ave	17090 475098	69127	180912	256686	386500	5.00 160	20.0	50.0	80.0	120
4-Chlorophenyl phenyl ether	ANT	Ave	11367 338128	45468	117291	174071	263868	5.00 160	20.0	50.0	80.0	120
4-Nitroaniline	ANT	Lin1	3847 167544	19063	54300	84097	127967	5.00 160	20.0	50.0	80.0	120

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384467

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/29/2017 17:50 Calibration End Date: 10/29/2017 20:04 Calibration ID: 31851

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Fluorene	ANT	Ave	20609 626336	84175	219459	325809	487342	5.00 160	20.0	50.0	80.0	120
4,6-Dinitro-2-methylphenol	PHN	Lin1	3238 233900	18722	63958	105687	171560	10.0 320	40.0	100	160	240
Diphenylamine	PHN	Ave	14986 467680	60419	157985	237172	362773	4.28 137	17.1	42.8	68.4	103
N-Nitrosodiphenylamine	PHN	Ave	14986 467680	60419	157985	237172	362773	5.00 160	20.0	50.0	80.0	120
1,2-Diphenylhydrazine	PHN	Ave	20476 642264	86027	224511	331786	502097	5.00 160	20.0	50.0	80.0	120
trans-Azobenzene	PHN	Ave	20476 642264	86027	224511	331786	502097	5.00 160	20.0	50.0	80.0	120
4-Bromophenyl phenyl ether	PHN	Ave	6916 219495	28185	73828	111622	173709	5.00 160	20.0	50.0	80.0	120
Hexachlorobenzene	PHN	Ave	7251 231748	29148	77328	116684	178597	5.00 160	20.0	50.0	80.0	120
Atrazine	ANT	Ave	5145 183305	24072	64240	93196	141767	5.00 160	20.0	50.0	80.0	120
n-Octadecane	PHN	Ave	15737 488141	68518	177105	258686	387600	5.00 160	20.0	50.0	80.0	120
Pentachlorophenol	PHN	Lin1	5555 303526	30311	91255	146421	227674	10.0 320	40.0	100	160	240
Phenanthrene	PHN	Ave	32033 954466	127175	331658	493995	737448	5.00 160	20.0	50.0	80.0	120
Anthracene	PHN	Ave	31432 1001633	131292	345555	517522	771984	5.00 160	20.0	50.0	80.0	120
Carbazole	PHN	Ave	28269 890602	115350	300935	461043	680405	5.00 160	20.0	50.0	80.0	120
Di-n-butyl phthalate	PHN	Ave	29911 1032746	131032	343066	529948	785605	5.00 160	20.0	50.0	80.0	120
Fluoranthene	PHN	Ave	34682 1145427	142800	376145	580711	861626	5.00 160	20.0	50.0	80.0	120
Benzidine	CRY	Ave	19428 723462	87982	211902	382211	556632	5.00 160	20.0	50.0	80.0	120
Pyrene	CRY	Ave	37241 1185953	152246	392509	602600	895167	5.00 160	20.0	50.0	80.0	120
Butyl benzyl phthalate	CRY	Ave	16071 556860	62227	172519	273886	414060	5.00 160	20.0	50.0	80.0	120
Bis(2-ethylhexyl) phthalate	CRY	Ave	20210 772257	86317	240258	381218	576145	5.00 160	20.0	50.0	80.0	120
3,3'-Dichlorobenzidine	CRY	Ave	17134 650843	73982	202025	325705	483236	5.00 160	20.0	50.0	80.0	120

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384467

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/29/2017 17:50 Calibration End Date: 10/29/2017 20:04 Calibration ID: 31851

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzo(a)anthracene	CRY	Ave	49852 1516260	188881	497490	777312	1146565	5.00 160	20.0	50.0	80.0	120
Chrysene	CRY	Ave	47957 1466687	182730	482242	751985	1095026	5.00 160	20.0	50.0	80.0	120
Di-n-octyl phthalate	CRY	Ave	36577 1421848	156639	440867	707036	1057493	5.00 160	20.0	50.0	80.0	120
Benzo(b)fluoranthene	PRY	Ave	55159 1821958	223329	575950	930946	1304196	5.00 160	20.0	50.0	80.0	120
Benzo(k)fluoranthene	PRY	Ave	61261 1797945	216919	594997	918620	1399506	5.00 160	20.0	50.0	80.0	120
Benzo(a)pyrene	PRY	Ave	54871 1762721	206114	569573	886669	1319160	5.00 160	20.0	50.0	80.0	120
Dibenz(a,h)anthracene	PRY	Ave	52393 1654937	188818	563588	822962	1266937	5.00 160	20.0	50.0	80.0	120
Indeno(1,2,3-cd)pyrene	PRY	Ave	61734 1943950	222216	665004	963340	1499753	5.00 160	20.0	50.0	80.0	120
Benzo(g,h,i)perylene	PRY	Ave	49599 1527230	177741	529866	752743	1161133	5.00 160	20.0	50.0	80.0	120
2-Fluorophenol	DCBd 4	Ave	10466 301185	40189	106338	152016	234924	5.00 160	20.0	50.0	80.0	120
Phenol-d5	DCBd 4	Ave	12347 369323	48452	132803	193354	293201	5.00 160	20.0	50.0	80.0	120
Nitrobenzene-d5	NPT	Ave	11101 356675	46670	128284	184978	285506	5.00 160	20.0	50.0	80.0	120
2-Fluorobiphenyl	ANT	Ave	21679 624357	86133	226001	329993	500305	5.00 160	20.0	50.0	80.0	120
2,4,6-Tribromophenol	PHN	Lin1	2479 118313	12748	34880	56576	88215	5.00 160	20.0	50.0	80.0	120
p-Terphenyl-d14	CRY	Ave	29897 974086	119543	314190	488165	722818	5.00 160	20.0	50.0	80.0	120

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328553.D
Lims ID: IC - List1 5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Oct-2017 17:50:30 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066819-003
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2017 12:50:29 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: richardsd Date: 30-Oct-2017 11:38:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.232	7.232	0.000	97	59570	40.0	40.0	
* 2 Naphthalene-d8	136	8.739	8.739	0.000	99	212410	40.0	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	0.000	98	104809	40.0	40.0	
* 4 Phenanthrene-d10	188	12.265	12.265	0.000	97	209460	40.0	40.0	
* 5 Chrysene-d12	240	14.711	14.717	-0.006	96	318536	40.0	40.0	
* 6 Perylene-d12	264	16.496	16.496	0.000	99	382396	40.0	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	93	10466	5.00	5.25	
$ 8 Phenol-d5	99	6.725	6.730	-0.005	97	12347	5.00	5.04	
$ 9 Nitrobenzene-d5	82	7.868	7.868	0.000	93	11101	5.00	4.81	
$ 10 2-Fluorobiphenyl	172	9.989	9.989	0.000	99	21679	5.00	5.30	
$ 11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	89	2479	5.00	5.45	
$ 12 p-Terphenyl-d14	244	13.675	13.675	0.000	99	29897	5.00	5.21	
23 1,4-Dioxane	88	3.423	3.423	0.000	92	5237	5.00	5.37	
24 N-Nitrosodimethylamine	42	3.840	3.845	-0.005	91	7477	5.00	5.00	
25 Pyridine	52	3.941	3.947	-0.006	83	24821	10.0	10.3	
32 Benzaldehyde	77	6.703	6.703	0.000	90	9340	5.00	5.49	
33 Phenol	94	6.741	6.746	-0.005	98	13364	5.00	5.22	
34 Aniline	93	6.826	6.826	0.000	94	16127	5.00	5.08	
35 Bis(2-chloroethyl)ether	93	6.869	6.869	0.000	96	11234	5.00	5.33	
37 2-Chlorophenol	128	6.981	6.981	0.000	95	9466	5.00	4.90	
38 n-Decane	57	7.008	7.008	0.000	92	16719	5.00	5.15	
39 1,3-Dichlorobenzene	146	7.174	7.174	0.000	92	11928	5.00	5.01	
40 1,4-Dichlorobenzene	146	7.254	7.254	0.000	95	12337	5.00	5.16	
41 Benzyl alcohol	108	7.350	7.355	-0.005	88	6480	5.00	4.95	
42 1,2-Dichlorobenzene	146	7.441	7.441	0.000	95	11659	5.00	5.19	
43 2-Methylphenol	108	7.467	7.467	0.000	97	9113	5.00	5.12	
44 2,2'-oxybis[1-chloropropan	45	7.510	7.510	0.000	92	20509	5.00	5.28	
45 Indene	115	7.542	7.542	0.000	89	54855	15.0	16.0	
46 4-Methylphenol	108	7.638	7.638	0.000	92	9106	5.00	4.92	
47 N-Nitrosodi-n-propylamine	70	7.660	7.660	0.000	89	7088	5.00	4.64	
49 Acetophenone	105	7.676	7.676	0.000	91	13093	5.00	5.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.852	7.852	0.000	89	4399	5.00	5.11	
54 Nitrobenzene	77	7.889	7.889	0.000	92	10455	5.00	4.91	
56 Isophorone	82	8.157	8.162	-0.006	98	17919	5.00	4.82	
59 2-Nitrophenol	139	8.269	8.269	0.000	63	3873	5.00	5.54	
60 2,4-Dimethylphenol	107	8.274	8.274	0.000	90	9392	5.00	4.93	
64 Benzoic acid	105	8.306	8.370	-0.064	41	8670	15.0	18.6	
62 Bis(2-chloroethoxy)methane	93	8.381	8.386	-0.005	96	12122	5.00	5.24	
67 2,4-Dichlorophenol	162	8.546	8.547	-0.001	92	7880	5.00	4.85	
68 1,2,4-Trichlorobenzene	180	8.664	8.664	0.000	93	10225	5.00	5.30	
70 Naphthalene	128	8.766	8.766	0.000	97	29039	5.00	5.48	
72 4-Chloroaniline	127	8.792	8.792	0.000	94	11813	5.00	5.29	
73 2,6-Dichlorophenol	162	8.819	8.819	0.000	94	7906	5.00	4.90	
74 Hexachlorobutadiene	225	8.910	8.910	0.000	93	6167	5.00	4.99	
76 Caprolactam	113	9.156	9.172	-0.016	1	1817	5.00	5.25	M
80 4-Chloro-3-methylphenol	107	9.337	9.337	0.000	96	7150	5.00	4.67	
83 2-Methylnaphthalene	142	9.583	9.583	0.000	91	18058	5.00	4.99	
85 1-Methylnaphthalene	142	9.700	9.706	-0.006	94	18819	5.00	5.42	
86 Hexachlorocyclopentadiene	237	9.775	9.781	-0.006	92	5032	5.00	5.40	
87 1,2,4,5-Tetrachlorobenzene	216	9.786	9.786	0.000	96	10193	5.00	5.34	
89 2,4,6-Trichlorophenol	196	9.898	9.898	0.000	89	5472	5.00	4.69	
91 2,4,5-Trichlorophenol	196	9.941	9.941	0.000	93	5377	5.00	5.34	
94 1,1'-Biphenyl	154	10.112	10.112	0.000	96	22792	5.00	5.20	
95 2-Chloronaphthalene	162	10.149	10.155	-0.006	95	19324	5.00	5.45	
98 2-Nitroaniline	65	10.235	10.235	0.000	80	4005	5.00	5.57	
102 Dimethyl phthalate	163	10.411	10.416	-0.005	98	19715	5.00	5.00	
103 1,3-Dinitrobenzene	168	10.459	10.459	0.000	85	1913	5.00	6.04	
104 2,6-Dinitrotoluene	165	10.486	10.491	-0.005	88	3738	5.00	5.66	
105 Acenaphthylene	152	10.619	10.619	0.000	98	25515	5.00	5.15	
106 3-Nitroaniline	138	10.678	10.683	-0.005	58	3589	5.00	5.55	
107 2,4-Dinitrophenol	184	10.790	10.790	0.000	7	1918	10.0	12.1	
108 Acenaphthene	153	10.806	10.806	0.000	94	17806	5.00	5.24	
109 4-Nitrophenol	109	10.822	10.828	-0.006	95	4046	10.0	11.4	
111 2,4-Dinitrotoluene	165	10.929	10.929	0.000	88	4189	5.00	5.67	
112 Dibenzofuran	168	10.983	10.983	0.000	97	26226	5.00	5.38	
116 2,3,4,6-Tetrachlorophenol	232	11.105	11.105	0.000	65	4608	5.00	5.79	
118 Diethyl phthalate	149	11.159	11.159	0.000	97	19801	5.00	5.16	
119 Hexadecane	57	11.170	11.170	0.000	90	17090	5.00	5.34	
121 4-Chlorophenyl phenyl ethe	204	11.314	11.314	0.000	89	11367	5.00	5.27	
122 4-Nitroaniline	138	11.319	11.325	-0.005	82	3847	5.00	5.49	
123 Fluorene	166	11.340	11.341	-0.001	94	20609	5.00	5.16	
125 4,6-Dinitro-2-methylphenol	198	11.357	11.357	-0.001	83	3238	10.0	12.2	
128 Diphenylamine	169	11.421	11.426	-0.005	95	14986	4.28	4.42	
127 N-Nitrosodiphenylamine	169	11.421	11.426	-0.005	62	14986	5.00	5.17	
129 1,2-Diphenylhydrazine	77	11.474	11.474	0.000	97	20476	5.00	5.06	
130 Azobenzene	77	11.474	11.474	0.000	98	20476	5.00	5.06	
137 4-Bromophenyl phenyl ether	248	11.805	11.805	0.000	67	6916	5.00	5.08	
139 Hexachlorobenzene	284	11.901	11.907	-0.006	94	7251	5.00	5.11	
141 Atrazine	200	11.912	11.918	-0.006	88	5145	5.00	4.56	
144 n-Octadecane	57	12.067	12.067	0.000	91	15737	5.00	5.00	
143 Pentachlorophenol	266	12.072	12.078	-0.006	91	5555	10.0	11.1	
150 Phenanthrene	178	12.286	12.286	0.000	97	32033	5.00	5.30	
151 Anthracene	178	12.334	12.334	0.000	97	31432	5.00	5.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.462	12.462	0.000	95	28269	5.00	5.12	
155 Di-n-butyl phthalate	149	12.713	12.713	0.000	99	29911	5.00	4.78	
162 Fluoranthene	202	13.376	13.376	0.000	87	34682	5.00	5.01	
164 Benzidine	184	13.445	13.445	0.000	98	19428	5.00	4.67	
165 Pyrene	202	13.595	13.595	0.000	94	37241	5.00	5.22	
172 Butyl benzyl phthalate	149	14.065	14.065	0.000	97	16071	5.00	5.08	
178 Bis(2-ethylhexyl) phthalat	149	14.557	14.557	-0.001	96	20210	5.00	4.67	
179 3,3'-Dichlorobenzidine	252	14.621	14.621	0.000	72	17134	5.00	4.68	
181 Benzo[a]anthracene	228	14.701	14.701	0.000	96	49852	5.00	5.45	
182 Chrysene	228	14.743	14.744	-0.001	96	47957	5.00	5.44	
183 Di-n-octyl phthalate	149	15.219	15.219	0.000	99	36577	5.00	4.61	
185 Benzo[b]fluoranthene	252	15.945	15.951	-0.006	95	55159	5.00	4.92	
187 Benzo[k]fluoranthene	252	15.983	15.983	0.000	98	61261	5.00	5.33	
190 Benzo[a]pyrene	252	16.416	16.421	-0.005	75	54871	5.00	5.03	
193 Dibenz(a,h)anthracene	278	18.312	18.328	-0.016	86	52393	5.00	5.07	
194 Indeno[1,2,3-cd]pyrene	276	18.323	18.339	-0.016	98	61734	5.00	5.07	
195 Benzo[g,h,i]perylene	276	18.889	18.911	-0.021	97	49599	5.00	5.16	
S 254 Total Cresols	1				0			10.0	
S 257 3 & 4 Methylphenol	108				0			4.92	
S 256 3-Methylphenol	1				0			4.92	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00520	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

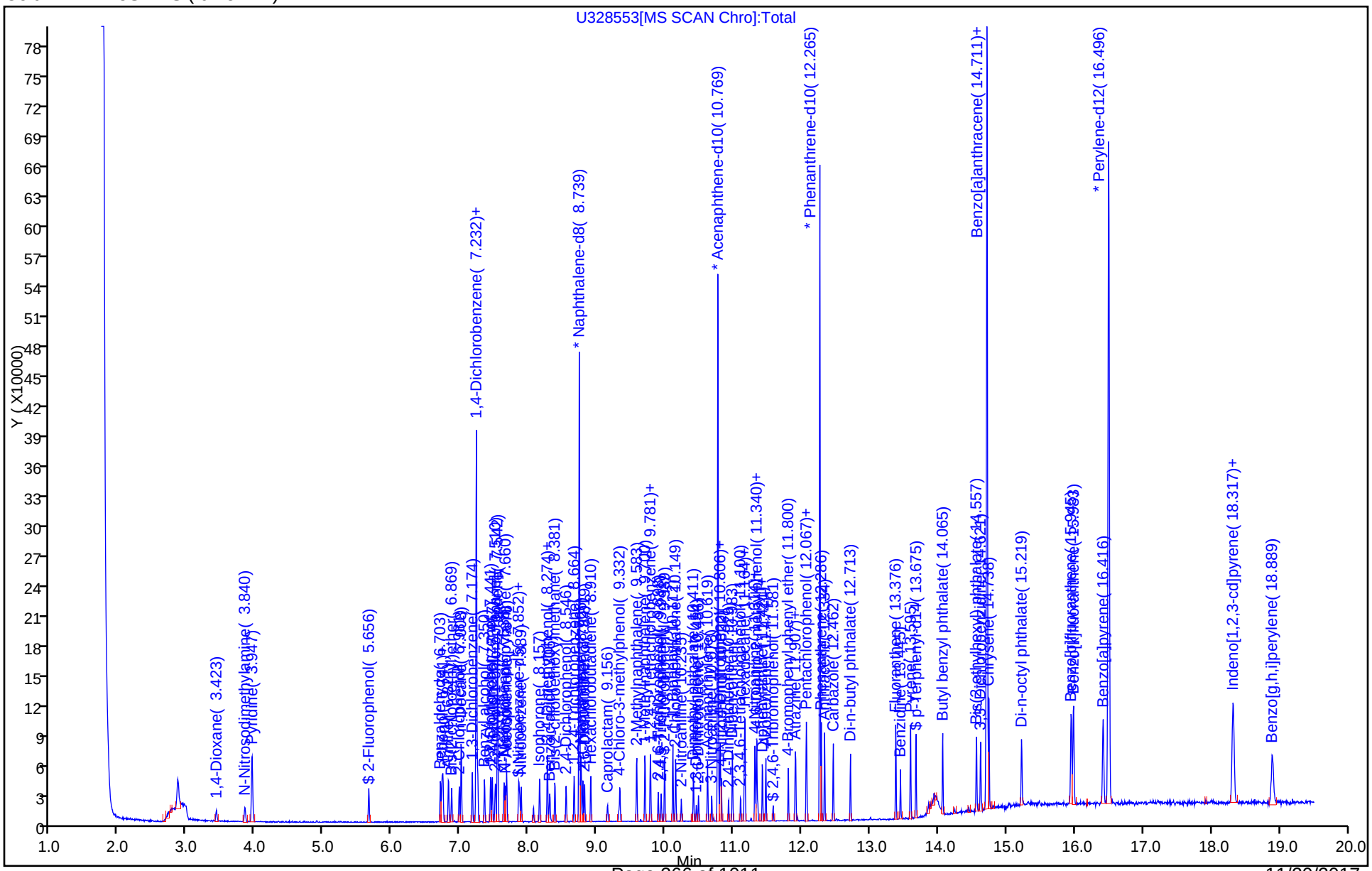
Report Date: 30-Oct-2017 12:50:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328553.D

Injection Date:	29-Oct-2017 17:50:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 5			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

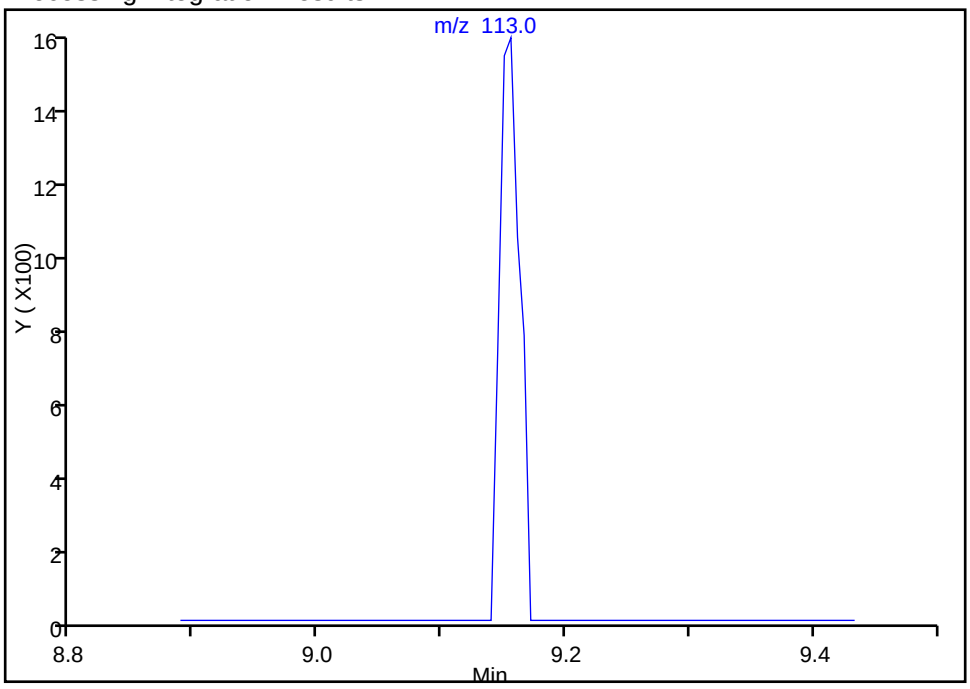
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Injection Date: 29-Oct-2017 17:50:30 Instrument ID: HP5973U
Lims ID: IC - List1 5
Client ID:
Operator ID: DR ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

76 Caprolactam, CAS: 105-60-2

Signal: 1

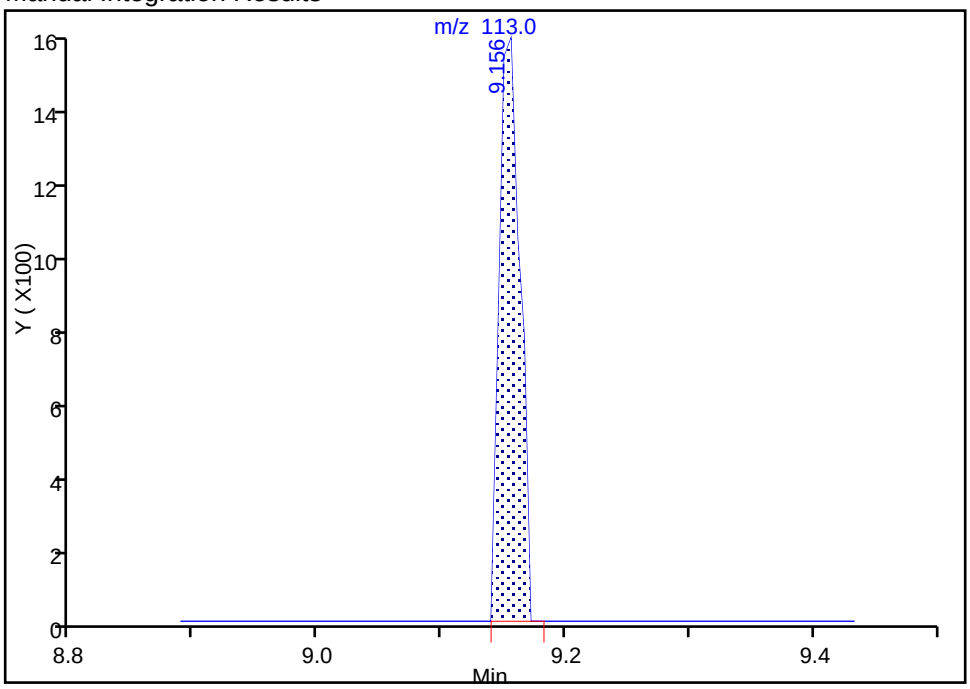
Not Detected
Expected RT: 9.17

Processing Integration Results



Manual Integration Results

RT: 9.16
Area: 1817
Amount: 5.245067
Amount Units: ng/uL



Reviewer: richardsd, 30-Oct-2017 11:37:53
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

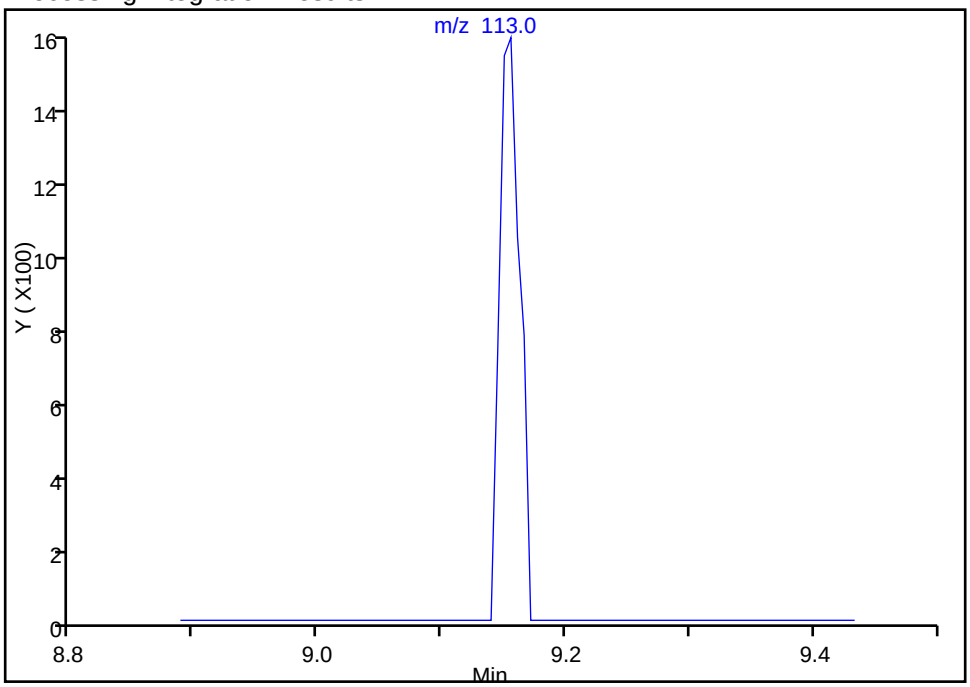
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Injection Date: 29-Oct-2017 17:50:30 Instrument ID: HP5973U
Lims ID: IC - List1 5
Client ID:
Operator ID: DR ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

76 Caprolactam, CAS: 105-60-2

Signal: 1

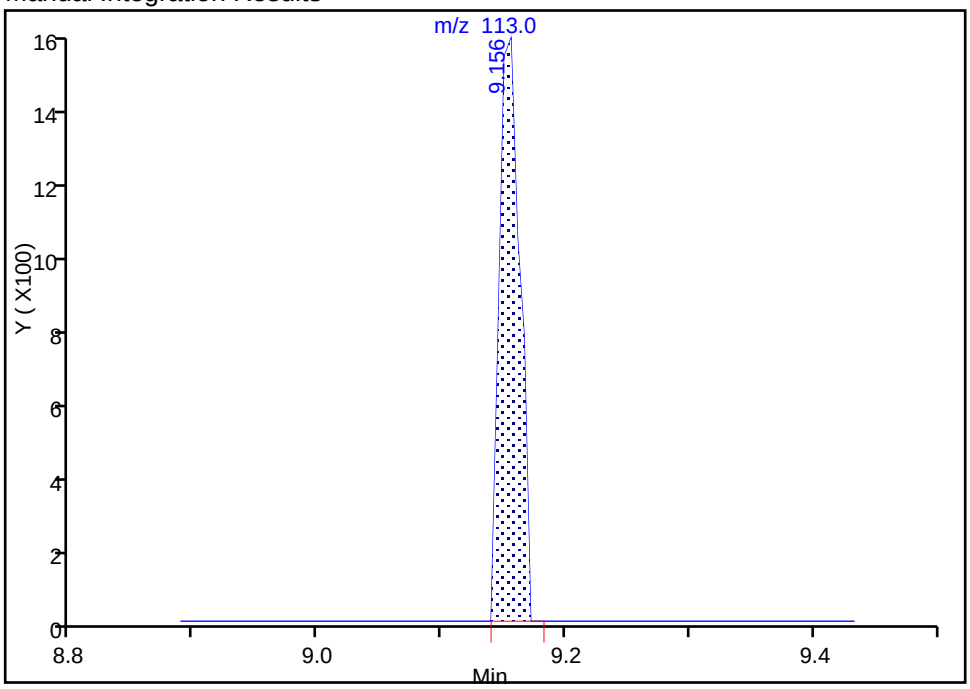
Processing Integration Results

Not Detected
Expected RT: 9.17



Manual Integration Results

RT: 9.16
Area: 1817
Amount: 5.245067
Amount Units: ng/uL



Reviewer: richardsd, 30-Oct-2017 11:38:01
Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328554.D
Lims ID: IC - List1 20
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Oct-2017 18:17:30 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066819-004
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2017 12:50:34 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: richardsd Date: 30-Oct-2017 11:40:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.232	7.232	0.000	96	60011	40.0	40.0	
* 2 Naphthalene-d8	136	8.739	8.739	0.000	99	216251	40.0	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	0.000	98	110521	40.0	40.0	
* 4 Phenanthrene-d10	188	12.265	12.265	0.000	97	217467	40.0	40.0	
* 5 Chrysene-d12	240	14.717	14.717	0.000	97	328575	40.0	40.0	
* 6 Perylene-d12	264	16.496	16.496	0.000	99	368494	40.0	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	96	40189	20.0	20.0	
$ 8 Phenol-d5	99	6.730	6.730	0.000	97	48452	20.0	19.6	
$ 9 Nitrobenzene-d5	82	7.868	7.868	0.000	94	46670	20.0	19.8	
$ 10 2-Fluorobiphenyl	172	9.989	9.989	0.000	100	86133	20.0	20.0	
$ 11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	94	12748	20.0	19.2	
$ 12 p-Terphenyl-d14	244	13.675	13.675	0.000	99	119543	20.0	20.2	
23 1,4-Dioxane	88	3.423	3.423	0.000	90	19668	20.0	20.0	
24 N-Nitrosodimethylamine	42	3.840	3.845	-0.005	87	31084	20.0	20.7	
25 Pyridine	52	3.942	3.947	-0.005	81	99657	40.0	41.1	
32 Benzaldehyde	77	6.704	6.703	0.001	92	36404	20.0	21.2	
33 Phenol	94	6.746	6.746	0.000	98	51202	20.0	19.8	
34 Aniline	93	6.826	6.826	0.000	95	64870	20.0	20.3	
35 Bis(2-chloroethyl)ether	93	6.869	6.869	0.000	93	43330	20.0	20.4	
37 2-Chlorophenol	128	6.981	6.981	0.000	96	39063	20.0	20.1	
38 n-Decane	57	7.008	7.008	0.000	93	70254	20.0	21.5	
39 1,3-Dichlorobenzene	146	7.174	7.174	0.000	97	50441	20.0	21.1	
40 1,4-Dichlorobenzene	146	7.254	7.254	0.000	93	48214	20.0	20.0	
41 Benzyl alcohol	108	7.355	7.355	0.000	89	25845	20.0	19.6	
42 1,2-Dichlorobenzene	146	7.441	7.441	0.000	97	46448	20.0	20.5	
43 2-Methylphenol	108	7.467	7.467	0.000	98	34635	20.0	19.3	
44 2,2'-oxybis[1-chloropropan	45	7.510	7.510	0.000	93	81790	20.0	20.9	
45 Indene	115	7.542	7.542	0.000	90	211914	60.0	61.5	
46 4-Methylphenol	108	7.638	7.638	0.000	91	36825	20.0	19.7	
47 N-Nitrosodi-n-propylamine	70	7.660	7.660	0.000	92	31828	20.0	20.7	
49 Acetophenone	105	7.676	7.676	0.000	90	53454	20.0	20.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.852	7.852	0.000	93	17839	20.0	20.6	
54 Nitrobenzene	77	7.889	7.889	0.000	93	42585	20.0	19.6	
56 Isophorone	82	8.157	8.162	-0.005	98	75770	20.0	20.0	
59 2-Nitrophenol	139	8.269	8.269	0.000	93	16617	20.0	18.4	
60 2,4-Dimethylphenol	107	8.274	8.274	0.000	96	39086	20.0	20.1	
64 Benzoic acid	105	8.333	8.370	-0.037	91	50825	60.0	51.0	M
62 Bis(2-chloroethoxy)methane	93	8.381	8.386	-0.005	95	48101	20.0	20.4	
67 2,4-Dichlorophenol	162	8.547	8.547	0.000	95	31200	20.0	18.9	
68 1,2,4-Trichlorobenzene	180	8.664	8.664	0.000	94	39836	20.0	20.3	
70 Naphthalene	128	8.766	8.766	0.000	97	109378	20.0	20.3	
72 4-Chloroaniline	127	8.792	8.792	0.000	95	43365	20.0	19.1	
73 2,6-Dichlorophenol	162	8.819	8.819	0.000	96	32918	20.0	20.0	
74 Hexachlorobutadiene	225	8.910	8.910	0.000	94	25444	20.0	20.2	
76 Caprolactam	113	9.161	9.172	-0.011	74	10084	20.0	19.4	
80 4-Chloro-3-methylphenol	107	9.337	9.337	0.000	97	29992	20.0	19.3	
83 2-Methylnaphthalene	142	9.583	9.583	0.000	92	75247	20.0	20.4	
85 1-Methylnaphthalene	142	9.706	9.706	0.000	93	70864	20.0	20.1	
86 Hexachlorocyclopentadiene	237	9.775	9.781	-0.006	94	25792	20.0	19.0	
87 1,2,4,5-Tetrachlorobenzene	216	9.786	9.786	0.000	97	39624	20.0	19.7	
89 2,4,6-Trichlorophenol	196	9.898	9.898	0.000	92	22870	20.0	18.6	
91 2,4,5-Trichlorophenol	196	9.941	9.941	0.000	95	24982	20.0	19.3	
94 1,1'-Biphenyl	154	10.112	10.112	0.000	96	93104	20.0	20.2	
95 2-Chloronaphthalene	162	10.155	10.155	0.000	96	73661	20.0	19.7	
98 2-Nitroaniline	65	10.235	10.235	0.000	79	20375	20.0	18.6	
102 Dimethyl phthalate	163	10.411	10.416	-0.005	99	83436	20.0	20.1	
103 1,3-Dinitrobenzene	168	10.454	10.459	-0.005	83	9917	20.0	17.5	
104 2,6-Dinitrotoluene	165	10.486	10.491	-0.005	92	16800	20.0	18.4	
105 Acenaphthylene	152	10.619	10.619	0.000	98	103294	20.0	19.8	
106 3-Nitroaniline	138	10.683	10.683	0.000	88	17324	20.0	18.8	
107 2,4-Dinitrophenol	184	10.790	10.790	0.000	40	13143	40.0	32.8	
108 Acenaphthene	153	10.806	10.806	0.000	95	71843	20.0	20.1	
109 4-Nitrophenol	109	10.822	10.828	-0.006	95	19914	40.0	37.1	
111 2,4-Dinitrotoluene	165	10.929	10.929	0.000	93	21891	20.0	18.7	
112 Dibenzofuran	168	10.983	10.983	0.000	97	103225	20.0	20.1	
116 2,3,4,6-Tetrachlorophenol	232	11.106	11.105	0.001	70	20592	20.0	18.3	
118 Diethyl phthalate	149	11.159	11.159	0.000	98	79716	20.0	19.7	
119 Hexadecane	57	11.170	11.170	0.000	90	69127	20.0	20.5	
121 4-Chlorophenyl phenyl ethe	204	11.314	11.314	0.000	89	45468	20.0	20.0	
122 4-Nitroaniline	138	11.325	11.325	0.001	83	19063	20.0	18.9	
123 Fluorene	166	11.341	11.341	0.000	94	84175	20.0	20.0	
125 4,6-Dinitro-2-methylphenol	198	11.357	11.357	0.000	88	18722	40.0	33.5	
127 N-Nitrosodiphenylamine	169	11.426	11.426	0.000	63	60419	20.0	20.1	
128 Diphenylamine	169	11.426	11.426	0.000	94	60419	17.1	17.2	
130 Azobenzene	77	11.474	11.474	0.000	98	86027	20.0	20.5	
129 1,2-Diphenylhydrazine	77	11.474	11.474	0.000	97	86027	20.0	20.5	
137 4-Bromophenyl phenyl ether	248	11.805	11.805	0.000	66	28185	20.0	20.0	
139 Hexachlorobenzene	284	11.907	11.907	0.000	94	29148	20.0	19.8	
141 Atrazine	200	11.912	11.918	-0.006	92	24072	20.0	20.2	
144 n-Octadecane	57	12.067	12.067	0.000	92	68518	20.0	21.0	
143 Pentachlorophenol	266	12.072	12.078	-0.006	93	30311	40.0	36.7	
150 Phenanthrene	178	12.286	12.286	0.000	97	127175	20.0	20.3	
151 Anthracene	178	12.334	12.334	0.000	97	131292	20.0	20.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.462	12.462	0.000	97	115350	20.0	20.1	
155 Di-n-butyl phthalate	149	12.714	12.713	0.001	100	131032	20.0	20.2	
162 Fluoranthene	202	13.376	13.376	0.000	97	142800	20.0	19.9	
164 Benzidine	184	13.445	13.445	0.000	99	87982	20.0	20.5	
165 Pyrene	202	13.595	13.595	0.000	96	152246	20.0	20.7	
172 Butyl benzyl phthalate	149	14.065	14.065	0.000	98	62227	20.0	19.1	
178 Bis(2-ethylhexyl) phthalat	149	14.562	14.557	0.005	97	86317	20.0	19.3	
179 3,3'-Dichlorobenzidine	252	14.621	14.621	0.000	73	73982	20.0	19.6	
181 Benzo[a]anthracene	228	14.701	14.701	0.000	97	188881	20.0	20.0	
182 Chrysene	228	14.744	14.744	0.000	96	182730	20.0	20.1	
183 Di-n-octyl phthalate	149	15.219	15.219	0.000	99	156639	20.0	19.2	
185 Benzo[b]fluoranthene	252	15.951	15.951	0.000	95	223329	20.0	20.7	
187 Benzo[k]fluoranthene	252	15.983	15.983	0.000	97	216919	20.0	19.6	
190 Benzo[a]pyrene	252	16.416	16.421	-0.005	76	206114	20.0	19.6	
193 Dibenz(a,h)anthracene	278	18.318	18.328	-0.010	86	188818	20.0	19.0	
194 Indeno[1,2,3-cd]pyrene	276	18.328	18.339	-0.011	98	222216	20.0	18.9	
195 Benzo[g,h,i]perylene	276	18.900	18.911	-0.010	98	177741	20.0	19.2	
S 256 3-Methylphenol	1				0			19.7	
S 254 Total Cresols	1				0			39.1	
S 257 3 & 4 Methylphenol	108				0			19.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

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MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

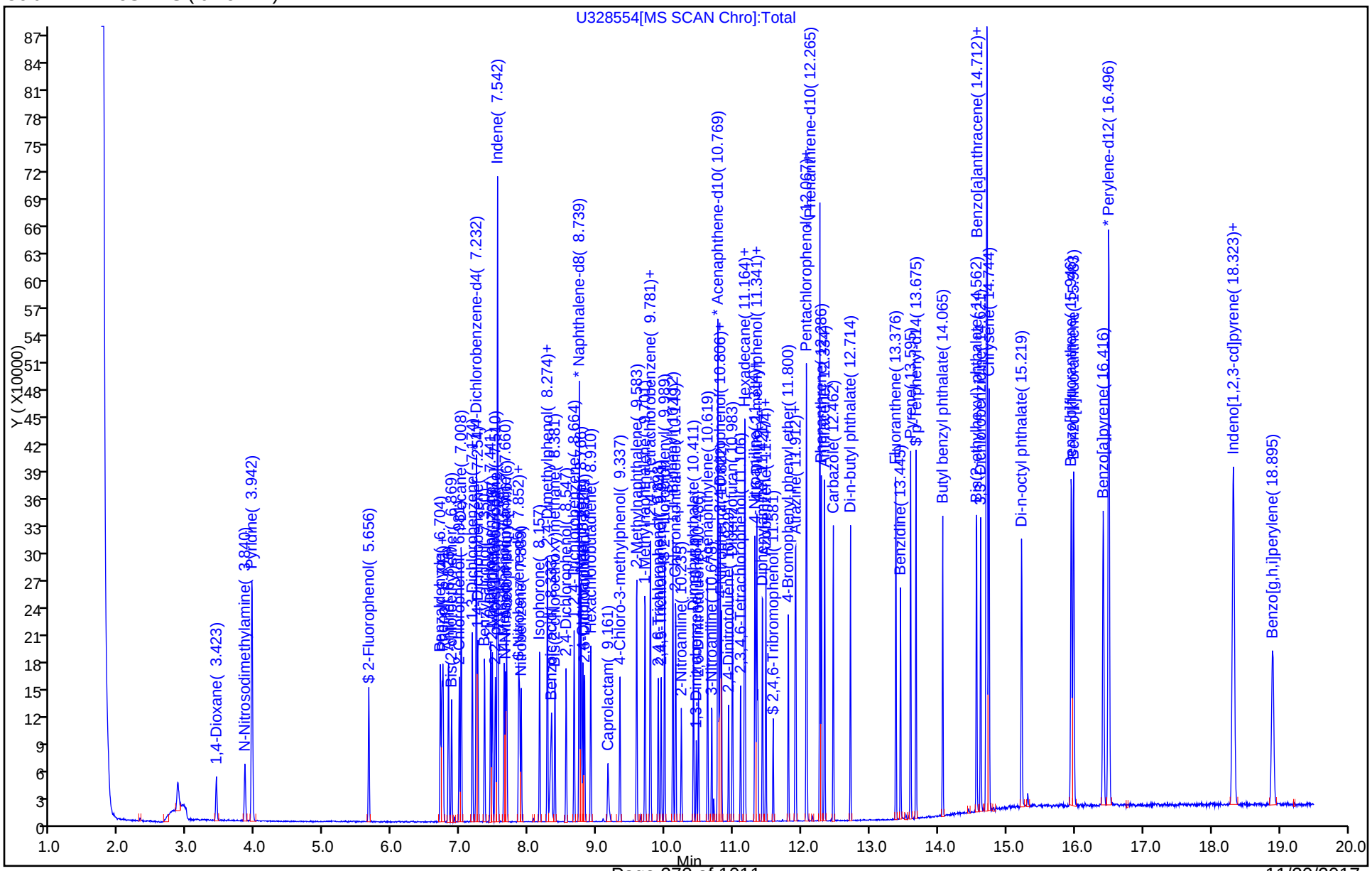
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328554.D

Injection Date:	29-Oct-2017 18:17:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 20			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

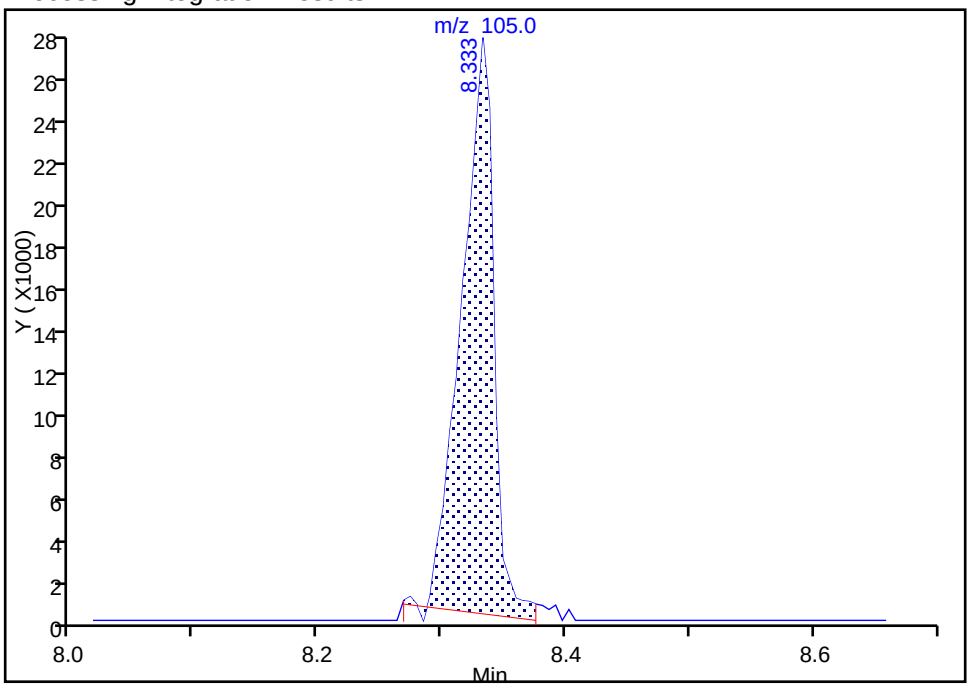
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Injection Date: 29-Oct-2017 18:17:30 Instrument ID: HP5973U
Lims ID: IC - List1 20
Client ID:
Operator ID: DR ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

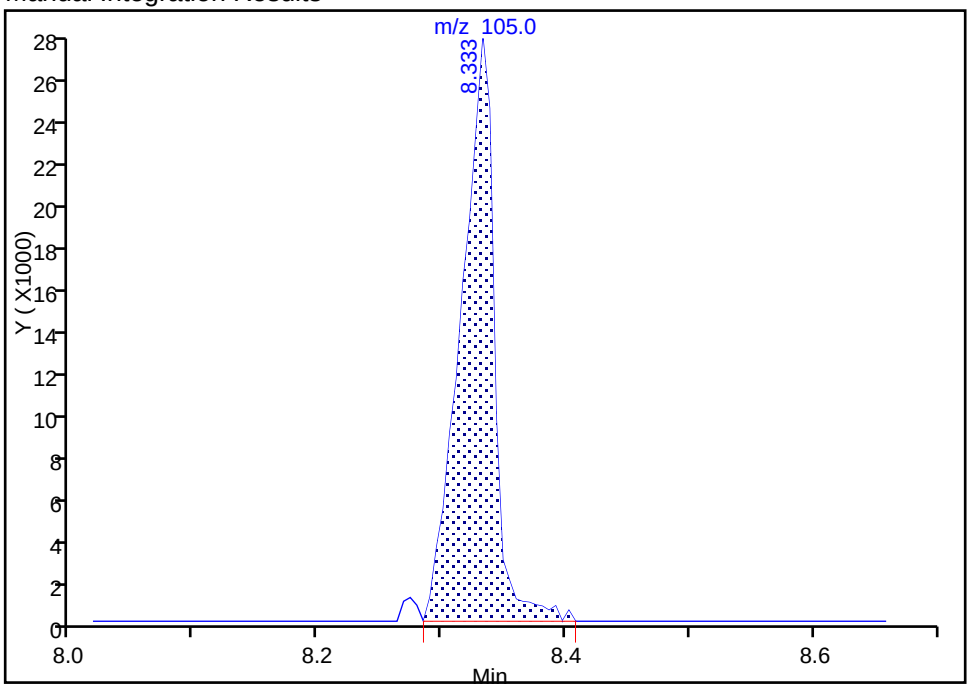
Processing Integration Results

RT: 8.33
Area: 48388
Amount: 49.160861
Amount Units: ng/uL



Manual Integration Results

RT: 8.33
Area: 50825
Amount: 51.039034
Amount Units: ng/uL



Reviewer: richardsd, 30-Oct-2017 11:39:23
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328555.D
Lims ID: ICIS - List1 50
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 29-Oct-2017 18:44:30 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066819-005
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2017 12:50:38 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: richardsd Date: 30-Oct-2017 12:48:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.232	7.232	0.000	95	64431	40.0	40.0	
* 2 Naphthalene-d8	136	8.739	8.739	0.000	99	232638	40.0	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	0.000	97	117016	40.0	40.0	
* 4 Phenanthrene-d10	188	12.265	12.265	0.000	97	226862	40.0	40.0	
* 5 Chrysene-d12	240	14.717	14.717	0.000	97	348102	40.0	40.0	
* 6 Perylene-d12	264	16.496	16.496	0.000	99	400640	40.0	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	96	106338	50.0	49.3	
$ 8 Phenol-d5	99	6.730	6.730	0.000	97	132803	50.0	50.1	
$ 9 Nitrobenzene-d5	82	7.868	7.868	0.000	93	128284	50.0	50.7	
$ 10 2-Fluorobiphenyl	172	9.989	9.989	0.000	100	226001	50.0	49.5	
$ 11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	95	34880	50.0	47.2	
$ 12 p-Terphenyl-d14	244	13.675	13.675	0.000	99	314190	50.0	50.1	
23 1,4-Dioxane	88	3.423	3.423	0.000	92	52438	50.0	49.7	
24 N-Nitrosodimethylamine	42	3.845	3.845	0.000	88	80081	50.0	49.6	
25 Pyridine	52	3.947	3.947	0.000	82	257259	100.0	98.9	
32 Benzaldehyde	77	6.703	6.703	0.000	92	79737	50.0	43.3	
33 Phenol	94	6.746	6.746	0.000	98	137441	50.0	49.6	
34 Aniline	93	6.826	6.826	0.000	95	170169	50.0	49.6	
35 Bis(2-chloroethyl)ether	93	6.869	6.869	0.000	92	113321	50.0	49.7	
37 2-Chlorophenol	128	6.981	6.981	0.000	96	106453	50.0	51.0	
38 n-Decane	57	7.008	7.008	0.000	93	174856	50.0	49.8	
39 1,3-Dichlorobenzene	146	7.174	7.174	0.000	97	128017	50.0	49.8	
40 1,4-Dichlorobenzene	146	7.254	7.254	0.000	94	131086	50.0	50.7	
41 Benzyl alcohol	108	7.355	7.355	0.000	90	70557	50.0	49.8	
42 1,2-Dichlorobenzene	146	7.441	7.441	0.000	96	120195	50.0	49.5	
43 2-Methylphenol	108	7.467	7.467	0.000	98	95359	50.0	49.5	
44 2,2'-oxybis[1-chloropropan	45	7.510	7.510	0.000	93	211077	50.0	50.3	
45 Indene	115	7.542	7.542	0.000	91	553139	150.0	149.5	
46 4-Methylphenol	108	7.638	7.638	0.000	93	100158	50.0	50.0	
47 N-Nitrosodi-n-propylamine	70	7.660	7.660	0.000	89	83556	50.0	50.6	
49 Acetophenone	105	7.676	7.676	0.000	93	142100	50.0	50.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.852	7.852	0.000	91	45729	50.0	49.1	
54 Nitrobenzene	77	7.889	7.889	0.000	93	118992	50.0	51.0	
56 Isophorone	82	8.162	8.162	0.000	98	206415	50.0	50.7	
59 2-Nitrophenol	139	8.269	8.269	0.000	90	49387	50.0	48.3	
60 2,4-Dimethylphenol	107	8.274	8.274	0.000	95	105193	50.0	50.4	
64 Benzoic acid	105	8.370	8.370	0.000	90	169533	150.0	133.6	M
62 Bis(2-chloroethoxy)methane	93	8.386	8.386	0.000	95	127725	50.0	50.4	
67 2,4-Dichlorophenol	162	8.547	8.547	0.000	95	89915	50.0	50.5	
68 1,2,4-Trichlorobenzene	180	8.664	8.664	0.000	93	104423	50.0	49.4	
70 Naphthalene	128	8.766	8.766	0.000	97	288325	50.0	49.6	
72 4-Chloroaniline	127	8.792	8.792	0.000	95	124193	50.0	50.8	M
73 2,6-Dichlorophenol	162	8.819	8.819	0.000	96	89449	50.0	50.6	
74 Hexachlorobutadiene	225	8.910	8.910	0.000	94	68686	50.0	50.8	
76 Caprolactam	113	9.172	9.172	0.000	75	29719	50.0	49.5	
80 4-Chloro-3-methylphenol	107	9.337	9.337	0.000	97	84472	50.0	50.4	
83 2-Methylnaphthalene	142	9.583	9.583	0.000	92	199512	50.0	50.4	
85 1-Methylnaphthalene	142	9.706	9.706	0.000	93	190515	50.0	50.1	
86 Hexachlorocyclopentadiene	237	9.781	9.781	0.000	96	75164	50.0	49.1	
87 1,2,4,5-Tetrachlorobenzene	216	9.786	9.786	0.000	97	106357	50.0	49.9	
89 2,4,6-Trichlorophenol	196	9.898	9.898	0.000	93	65076	50.0	49.9	
91 2,4,5-Trichlorophenol	196	9.941	9.941	0.000	94	68611	50.0	48.1	
94 1,1'-Biphenyl	154	10.112	10.112	0.000	96	245927	50.0	50.3	
95 2-Chloronaphthalene	162	10.155	10.155	0.000	96	195592	50.0	49.4	
98 2-Nitroaniline	65	10.235	10.235	0.000	79	59382	50.0	47.4	
102 Dimethyl phthalate	163	10.416	10.416	0.000	99	217282	50.0	49.4	
103 1,3-Dinitrobenzene	168	10.459	10.459	0.000	84	31020	50.0	44.6	
104 2,6-Dinitrotoluene	165	10.491	10.491	0.000	93	48314	50.0	47.1	
105 Acenaphthylene	152	10.619	10.619	0.000	98	273680	50.0	49.5	
106 3-Nitroaniline	138	10.683	10.683	0.000	90	48505	50.0	46.6	
107 2,4-Dinitrophenol	184	10.790	10.790	0.000	83	47613	100.0	91.9	
108 Acenaphthene	153	10.806	10.806	0.000	95	187682	50.0	49.5	
109 4-Nitrophenol	109	10.828	10.828	0.000	94	57505	100.0	93.5	
111 2,4-Dinitrotoluene	165	10.929	10.929	0.000	93	62410	50.0	46.4	
112 Dibenzofuran	168	10.983	10.983	0.000	97	266985	50.0	49.0	
116 2,3,4,6-Tetrachlorophenol	232	11.105	11.105	0.000	71	59088	50.0	46.3	
118 Diethyl phthalate	149	11.159	11.159	0.000	98	210186	50.0	49.1	
119 Hexadecane	57	11.170	11.170	0.000	90	180912	50.0	50.6	
121 4-Chlorophenyl phenyl ethe	204	11.314	11.314	0.000	91	117291	50.0	48.7	
122 4-Nitroaniline	138	11.325	11.325	0.000	84	54300	50.0	47.7	
123 Fluorene	166	11.341	11.341	0.000	94	219459	50.0	49.2	
125 4,6-Dinitro-2-methylphenol	198	11.357	11.357	0.000	89	63958	100.0	92.3	
128 Diphenylamine	169	11.426	11.426	0.000	94	157985	42.8	43.0	
127 N-Nitrosodiphenylamine	169	11.426	11.426	0.000	64	157985	50.0	50.3	
129 1,2-Diphenylhydrazine	77	11.474	11.474	0.000	97	224511	50.0	51.3	
130 Azobenzene	77	11.474	11.474	0.000	98	224511	50.0	51.3	
137 4-Bromophenyl phenyl ether	248	11.805	11.805	0.000	66	73828	50.0	50.1	
139 Hexachlorobenzene	284	11.907	11.907	0.000	95	77328	50.0	50.3	
141 Atrazine	200	11.918	11.918	0.000	92	64240	50.0	51.0	
144 n-Octadecane	57	12.067	12.067	0.000	92	177105	50.0	52.0	
143 Pentachlorophenol	266	12.078	12.078	0.000	93	91255	100.0	96.5	
150 Phenanthrene	178	12.286	12.286	0.000	97	331658	50.0	50.7	
151 Anthracene	178	12.334	12.334	0.000	96	345555	50.0	51.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.462	12.462	0.000	97	300935	50.0	50.3	
155 Di-n-butyl phthalate	149	12.713	12.713	0.000	100	343066	50.0	50.7	
162 Fluoranthene	202	13.376	13.376	0.000	98	376145	50.0	50.1	
164 Benzidine	184	13.445	13.445	0.000	100	211902	50.0	46.6	
165 Pyrene	202	13.595	13.595	0.000	98	392509	50.0	50.4	
172 Butyl benzyl phthalate	149	14.065	14.065	0.000	98	172519	50.0	49.9	
178 Bis(2-ethylhexyl) phthalat	149	14.557	14.557	0.000	97	240258	50.0	50.8	
179 3,3'-Dichlorobenzidine	252	14.621	14.621	0.000	73	202025	50.0	50.5	
181 Benzo[a]anthracene	228	14.701	14.701	0.000	97	497490	50.0	49.8	
182 Chrysene	228	14.744	14.744	0.000	96	482242	50.0	50.0	
183 Di-n-octyl phthalate	149	15.219	15.219	0.000	100	440867	50.0	50.9	
185 Benzo[b]fluoranthene	252	15.951	15.951	0.000	96	575950	50.0	49.0	
187 Benzo[k]fluoranthene	252	15.983	15.983	0.000	97	594997	50.0	49.4	
190 Benzo[a]pyrene	252	16.421	16.421	0.000	76	569573	50.0	49.9	
193 Dibenz(a,h)anthracene	278	18.328	18.328	0.000	91	563588	50.0	52.0	
194 Indeno[1,2,3-cd]pyrene	276	18.339	18.339	0.000	98	665004	50.0	52.2	
195 Benzo[g,h,i]perylene	276	18.911	18.911	0.000	98	529866	50.0	52.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00522	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

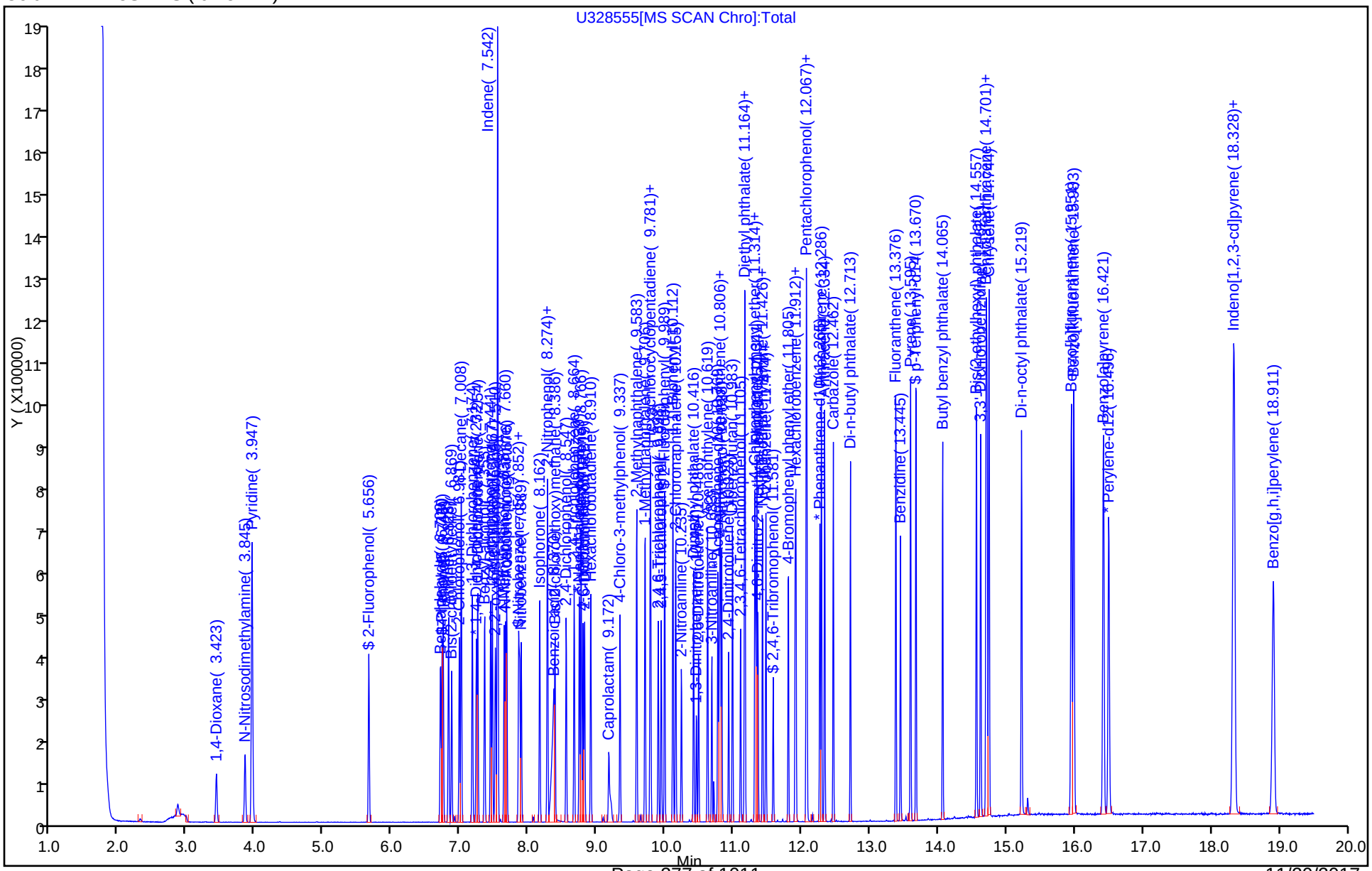
Report Date: 30-Oct-2017 12:50:39 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328555.D

Injection Date:	29-Oct-2017 18:44:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	ICIS - List1 50			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

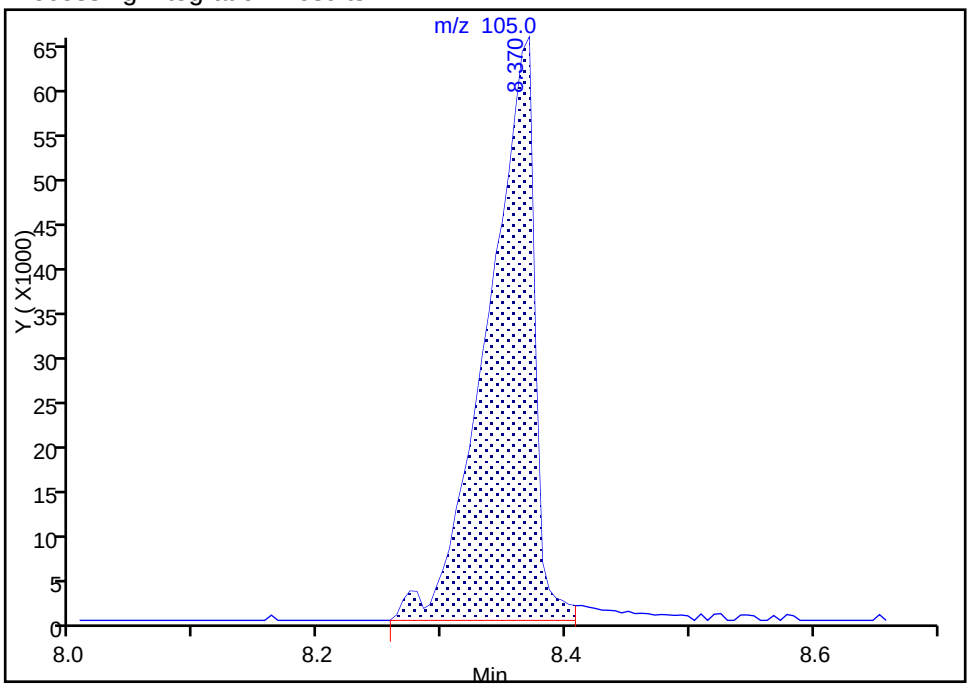
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Injection Date:	29-Oct-2017 18:44:30	Instrument ID:	HP5973U		
Lims ID:	ICIS - List1 50				
Client ID:					
Operator ID:	DR	ALS Bottle#:	6	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

64 Benzoic acid, CAS: 65-85-0

Signal: 1

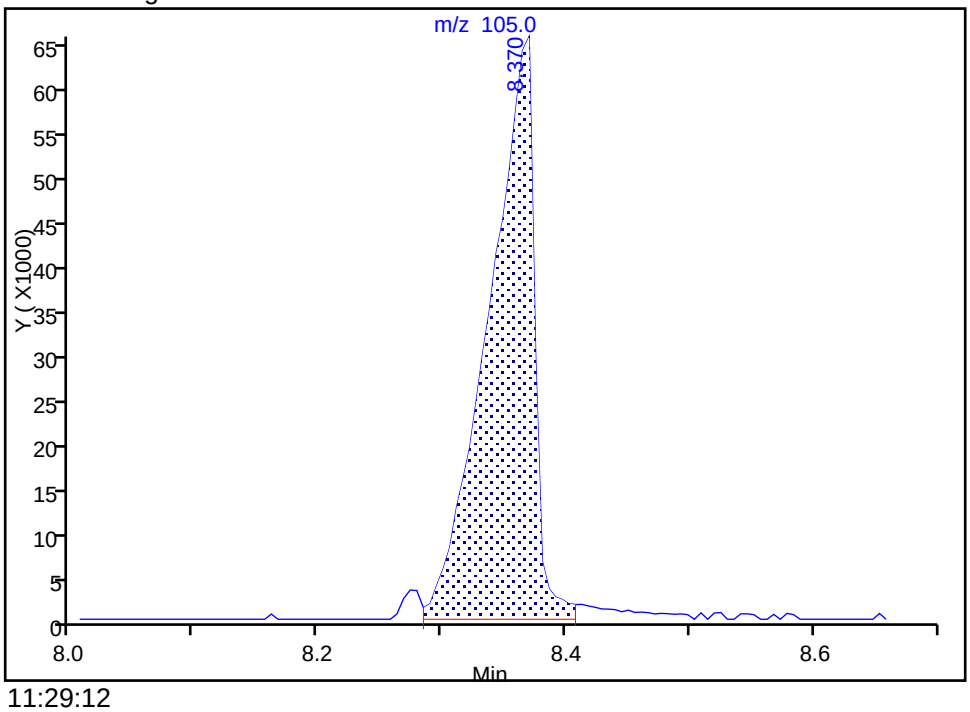
Processing Integration Results

RT: 8.37
Area: 172567
Amount: 130.9053
Amount Units: ng/uL



Manual Integration Results

RT: 8.37
Area: 169533
Amount: 133.5975
Amount Units: ng/uL



Reviewer: richardsd, 30-Oct-2017 11:29:12

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

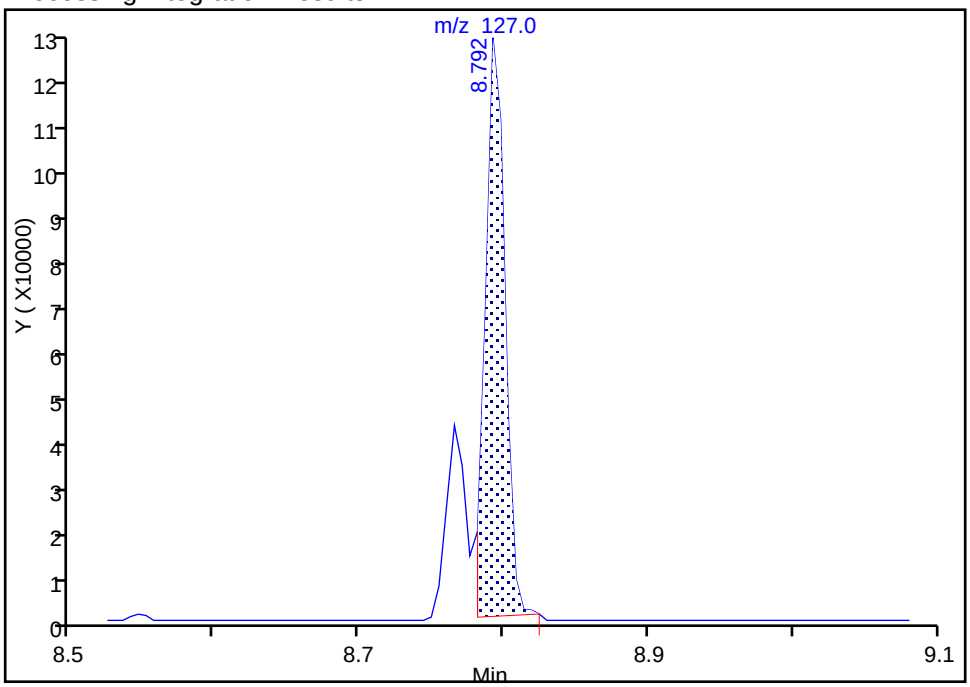
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Injection Date: 29-Oct-2017 18:44:30 Instrument ID: HP5973U
Lims ID: ICIS - List1 50
Client ID:
Operator ID: DR ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 4-Chloroaniline, CAS: 106-47-8

Signal: 1

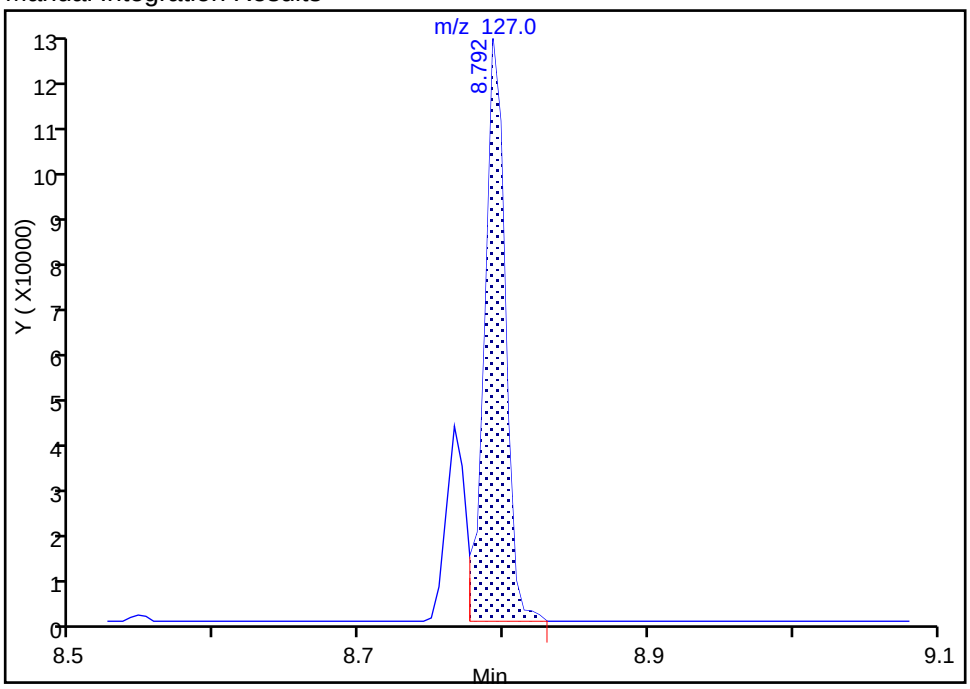
Processing Integration Results

RT: 8.79
Area: 116776
Amount: 48.142711
Amount Units: ng/uL



Manual Integration Results

RT: 8.79
Area: 124193
Amount: 50.826721
Amount Units: ng/uL



Reviewer: richardsd, 30-Oct-2017 11:34:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328556.D
Lims ID: IC - List1 80
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Oct-2017 19:11:30 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066819-006
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2017 12:50:44 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: richardsd Date: 30-Oct-2017 11:43:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.232	7.232	0.000	96	58894	40.0	40.0	
* 2 Naphthalene-d8	136	8.744	8.739	0.005	99	213027	40.0	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	0.000	97	108216	40.0	40.0	
* 4 Phenanthrene-d10	188	12.265	12.265	0.000	97	220524	40.0	40.0	
* 5 Chrysene-d12	240	14.717	14.717	0.000	97	345728	40.0	40.0	
* 6 Perylene-d12	264	16.501	16.496	0.005	99	390465	40.0	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	95	152016	80.0	77.1	
$ 8 Phenol-d5	99	6.730	6.730	0.000	97	193354	80.0	79.8	
$ 9 Nitrobenzene-d5	82	7.868	7.868	0.000	94	184978	80.0	79.9	
$ 10 2-Fluorobiphenyl	172	9.989	9.989	0.000	100	329993	80.0	78.2	
$ 11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	95	56576	80.0	77.5	
$ 12 p-Terphenyl-d14	244	13.675	13.675	0.000	99	488165	80.0	78.4	
23 1,4-Dioxane	88	3.418	3.423	-0.005	91	74204	80.0	76.9	
24 N-Nitrosodimethylamine	42	3.840	3.845	-0.005	88	116504	80.0	78.9	
25 Pyridine	52	3.942	3.947	-0.005	82	369401	160.0	155.3	
32 Benzaldehyde	77	6.704	6.703	0.001	92	137192	80.0	81.6	
33 Phenol	94	6.746	6.746	0.000	98	199845	80.0	78.9	
34 Aniline	93	6.826	6.826	0.000	96	249318	80.0	79.4	
35 Bis(2-chloroethyl)ether	93	6.869	6.869	0.000	94	163249	80.0	78.4	
37 2-Chlorophenol	128	6.981	6.981	0.000	96	149670	80.0	78.4	
38 n-Decane	57	7.013	7.008	0.005	92	246384	80.0	76.8	
39 1,3-Dichlorobenzene	146	7.174	7.174	0.000	97	183237	80.0	77.9	
40 1,4-Dichlorobenzene	146	7.254	7.254	0.000	93	185016	80.0	78.3	
41 Benzyl alcohol	108	7.355	7.355	0.000	90	103792	80.0	80.1	
42 1,2-Dichlorobenzene	146	7.441	7.441	0.000	96	172444	80.0	77.6	
43 2-Methylphenol	108	7.467	7.467	0.000	98	142542	80.0	81.0	
44 2,2'-oxybis[1-chloropropan	45	7.510	7.510	0.000	93	299289	80.0	78.0	
45 Indene	115	7.548	7.542	0.006	90	793303	240.0	234.5	
46 4-Methylphenol	108	7.644	7.638	0.006	92	147030	80.0	80.3	
47 N-Nitrosodi-n-propylamine	70	7.660	7.660	0.000	94	121078	80.0	80.2	
49 Acetophenone	105	7.676	7.676	0.000	92	204189	80.0	79.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.852	7.852	0.000	91	65774	80.0	77.3	
54 Nitrobenzene	77	7.889	7.889	0.000	93	170545	80.0	79.8	
56 Isophorone	82	8.162	8.162	0.000	98	300062	80.0	80.6	
59 2-Nitrophenol	139	8.269	8.269	0.000	95	73763	80.0	77.8	
60 2,4-Dimethylphenol	107	8.274	8.274	0.000	94	152970	80.0	80.0	
64 Benzoic acid	105	8.386	8.370	0.016	56	273432	240.0	226.4	M
62 Bis(2-chloroethoxy)methane	93	8.386	8.386	0.000	95	181418	80.0	78.2	
67 2,4-Dichlorophenol	162	8.552	8.547	0.005	94	133451	80.0	81.9	
68 1,2,4-Trichlorobenzene	180	8.664	8.664	0.000	93	151949	80.0	78.5	
70 Naphthalene	128	8.766	8.766	0.000	98	412971	80.0	77.7	
72 4-Chloroaniline	127	8.798	8.792	0.006	95	174986	80.0	78.2	M
73 2,6-Dichlorophenol	162	8.819	8.819	0.000	96	129125	80.0	79.8	
74 Hexachlorobutadiene	225	8.910	8.910	0.000	94	97471	80.0	78.7	
76 Caprolactam	113	9.182	9.172	0.010	75	43983	80.0	78.7	
80 4-Chloro-3-methylphenol	107	9.337	9.337	0.000	97	125378	80.0	81.7	
83 2-Methylnaphthalene	142	9.583	9.583	0.000	92	287265	80.0	79.2	
85 1-Methylnaphthalene	142	9.706	9.706	0.000	92	267529	80.0	76.9	
86 Hexachlorocyclopentadiene	237	9.781	9.781	0.000	94	110960	80.0	77.2	
87 1,2,4,5-Tetrachlorobenzene	216	9.786	9.786	0.000	97	152939	80.0	77.6	
89 2,4,6-Trichlorophenol	196	9.898	9.898	0.000	93	98517	80.0	81.7	
91 2,4,5-Trichlorophenol	196	9.941	9.941	0.000	95	105089	80.0	78.9	
94 1,1'-Biphenyl	154	10.112	10.112	0.000	96	353664	80.0	78.2	
95 2-Chloronaphthalene	162	10.155	10.155	0.000	96	284296	80.0	77.7	
98 2-Nitroaniline	65	10.235	10.235	0.000	80	93094	80.0	78.9	
102 Dimethyl phthalate	163	10.416	10.416	0.000	99	327133	80.0	80.4	
103 1,3-Dinitrobenzene	168	10.459	10.459	0.000	84	50981	80.0	77.4	
104 2,6-Dinitrotoluene	165	10.491	10.491	0.000	94	74545	80.0	77.5	
105 Acenaphthylene	152	10.619	10.619	0.000	98	403843	80.0	78.9	
106 3-Nitroaniline	138	10.683	10.683	0.000	90	78058	80.0	79.7	
107 2,4-Dinitrophenol	184	10.796	10.790	0.006	83	78841	160.0	158.0	
108 Acenaphthene	153	10.806	10.806	0.000	94	274324	80.0	78.2	
109 4-Nitrophenol	109	10.828	10.828	0.000	94	88803	160.0	153.2	
111 2,4-Dinitrotoluene	165	10.929	10.929	0.000	94	98822	80.0	77.7	
112 Dibenzofuran	168	10.988	10.983	0.005	97	391570	80.0	77.8	
116 2,3,4,6-Tetrachlorophenol	232	11.106	11.105	0.001	71	91827	80.0	76.5	
118 Diethyl phthalate	149	11.159	11.159	0.000	98	313819	80.0	79.2	
119 Hexadecane	57	11.170	11.170	0.000	92	256686	80.0	77.6	
121 4-Chlorophenyl phenyl ethe	204	11.314	11.314	0.000	90	174071	80.0	78.1	
122 4-Nitroaniline	138	11.330	11.325	0.006	84	84097	80.0	78.6	
123 Fluorene	166	11.341	11.341	0.000	93	325809	80.0	79.0	
125 4,6-Dinitro-2-methylphenol	198	11.362	11.357	0.005	88	105687	160.0	151.7	
127 N-Nitrosodiphenylamine	169	11.426	11.426	0.000	64	237172	80.0	77.7	
128 Diphenylamine	169	11.426	11.426	0.000	93	237172	68.4	66.4	
130 Azobenzene	77	11.474	11.474	0.000	98	331786	80.0	77.9	
129 1,2-Diphenylhydrazine	77	11.474	11.474	0.000	98	331786	80.0	77.9	
137 4-Bromophenyl phenyl ether	248	11.805	11.805	0.000	65	111622	80.0	78.0	
139 Hexachlorobenzene	284	11.907	11.907	0.000	96	116684	80.0	78.1	
141 Atrazine	200	11.918	11.918	0.000	93	93196	80.0	79.9	
144 n-Octadecane	57	12.067	12.067	0.000	92	258686	80.0	78.1	
143 Pentachlorophenol	266	12.078	12.078	0.000	94	146421	160.0	156.0	
150 Phenanthrene	178	12.286	12.286	0.000	98	493995	80.0	77.6	
151 Anthracene	178	12.334	12.334	0.000	96	517522	80.0	78.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.462	12.462	0.000	97	461043	80.0	79.3	
155 Di-n-butyl phthalate	149	12.714	12.713	0.001	100	529948	80.0	80.5	
162 Fluoranthene	202	13.381	13.376	0.005	97	580711	80.0	79.6	
164 Benzidine	184	13.445	13.445	0.000	99	382211	80.0	84.7	
165 Pyrene	202	13.595	13.595	0.000	95	602600	80.0	77.9	
172 Butyl benzyl phthalate	149	14.065	14.065	0.000	97	273886	80.0	79.8	
178 Bis(2-ethylhexyl) phthalat	149	14.562	14.557	0.005	97	381218	80.0	81.2	
179 3,3'-Dichlorobenzidine	252	14.621	14.621	0.000	73	325705	80.0	81.9	
181 Benzo[a]anthracene	228	14.706	14.701	0.005	97	777312	80.0	78.3	
182 Chrysene	228	14.744	14.744	0.000	96	751985	80.0	78.5	
183 Di-n-octyl phthalate	149	15.219	15.219	0.000	100	707036	80.0	82.2	
185 Benzo[b]fluoranthene	252	15.956	15.951	0.005	96	930946	80.0	81.3	
187 Benzo[k]fluoranthene	252	15.988	15.983	0.005	97	918620	80.0	78.2	
190 Benzo[a]pyrene	252	16.426	16.421	0.005	76	886669	80.0	79.7	
193 Dibenz(a,h)anthracene	278	18.334	18.328	0.006	90	822962	80.0	78.0	
194 Indeno[1,2,3-cd]pyrene	276	18.344	18.339	0.005	97	963340	80.0	77.5	
195 Benzo[g,h,i]perylene	276	18.916	18.911	0.006	98	752743	80.0	76.7	
S 256 3-Methylphenol	1				0			80.3	
S 254 Total Cresols	1				0			161.3	
S 257 3 & 4 Methylphenol	108				0			80.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00527	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

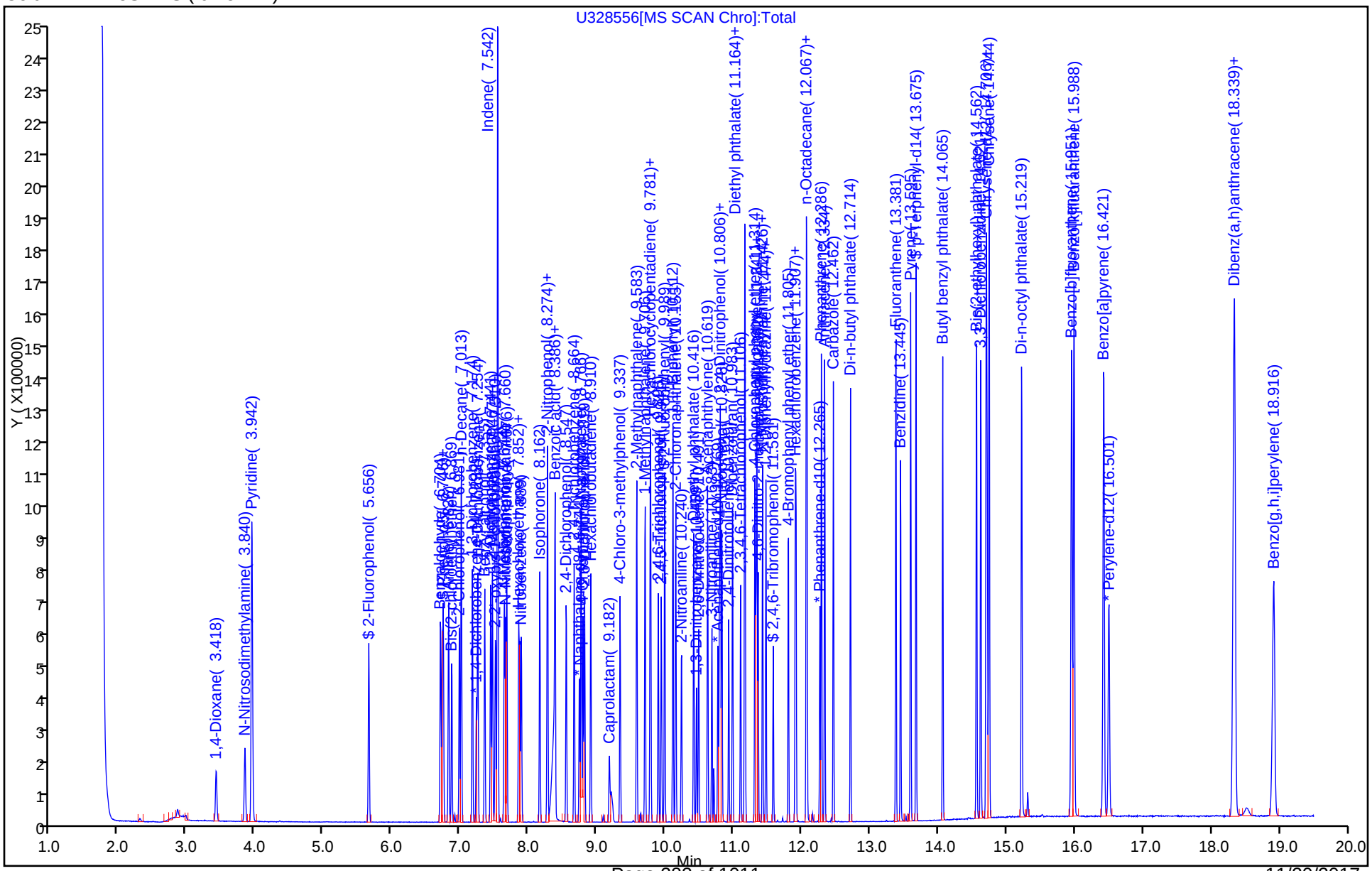
Report Date: 30-Oct-2017 12:50:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328556.D

Injection Date:	29-Oct-2017 19:11:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 80			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

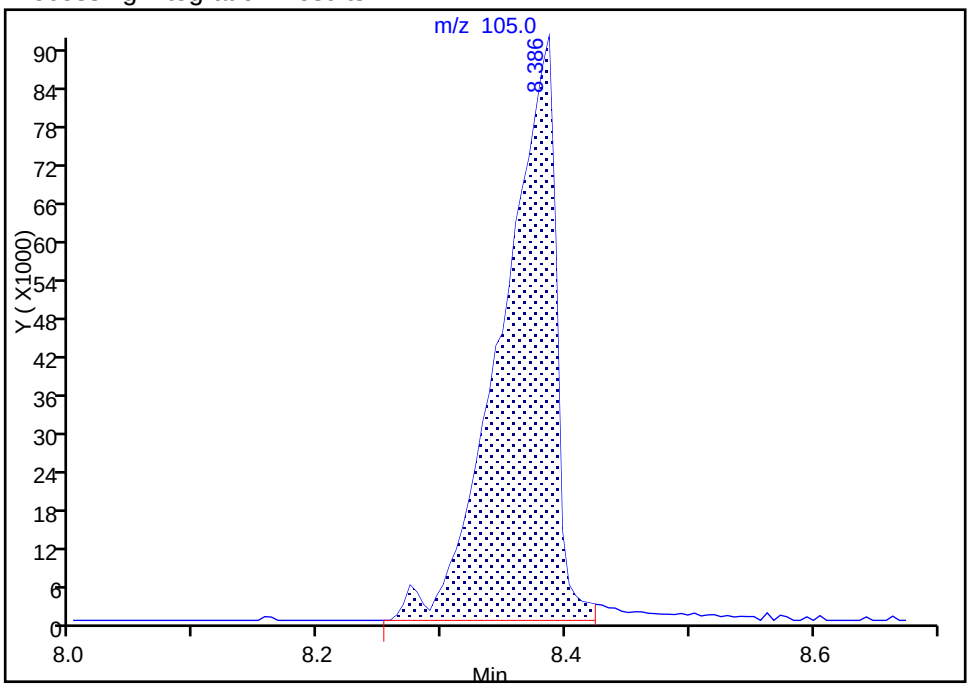
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Injection Date:	29-Oct-2017 19:11:30	Instrument ID:	HP5973U		
Lims ID:	IC - List1 80				
Client ID:					
Operator ID:	DR	ALS Bottle#:	7	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

64 Benzoic acid, CAS: 65-85-0

Signal: 1

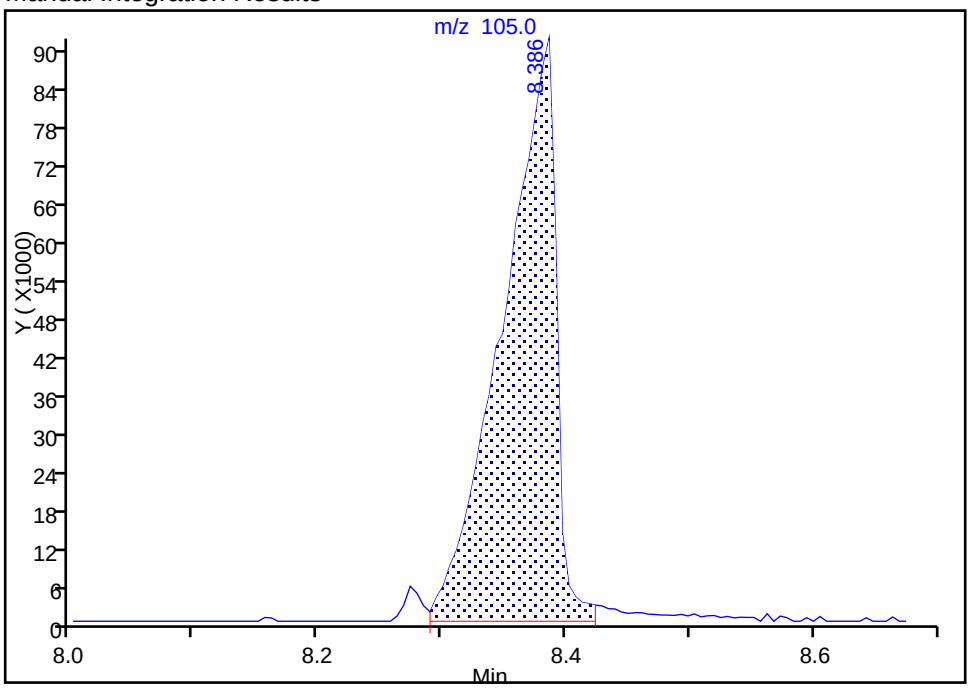
Processing Integration Results

RT: 8.39
Area: 278496
Amount: 227.3123
Amount Units: ng/uL



Manual Integration Results

RT: 8.39
Area: 273432
Amount: 226.3732
Amount Units: ng/uL



Reviewer: richardsd, 30-Oct-2017 11:42:27

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

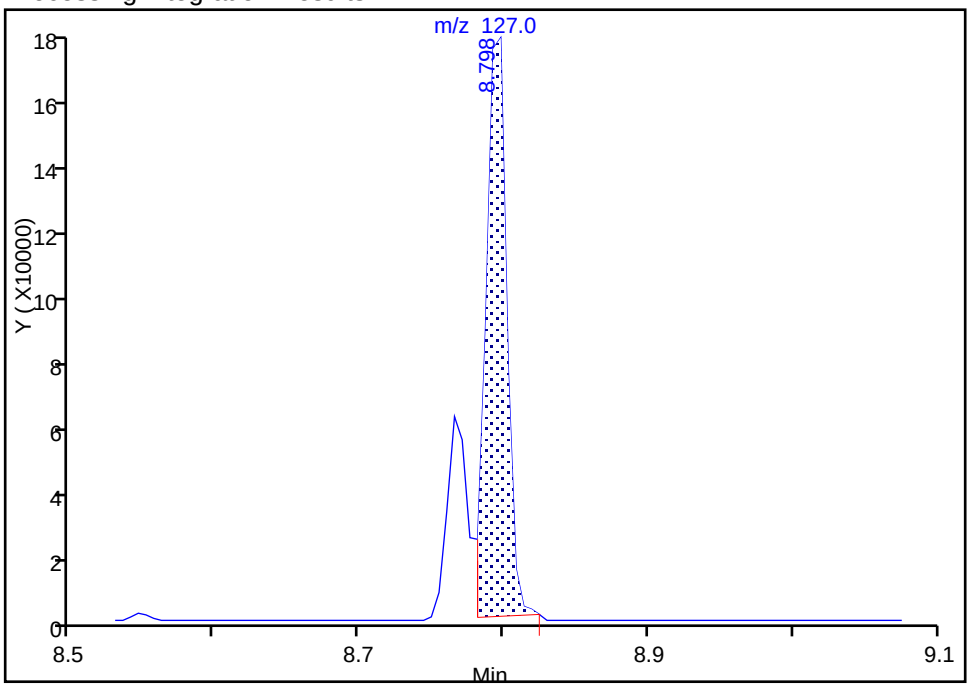
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Injection Date: 29-Oct-2017 19:11:30 Instrument ID: HP5973U
Lims ID: IC - List1 80
Client ID:
Operator ID: DR ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 4-Chloroaniline, CAS: 106-47-8

Signal: 1

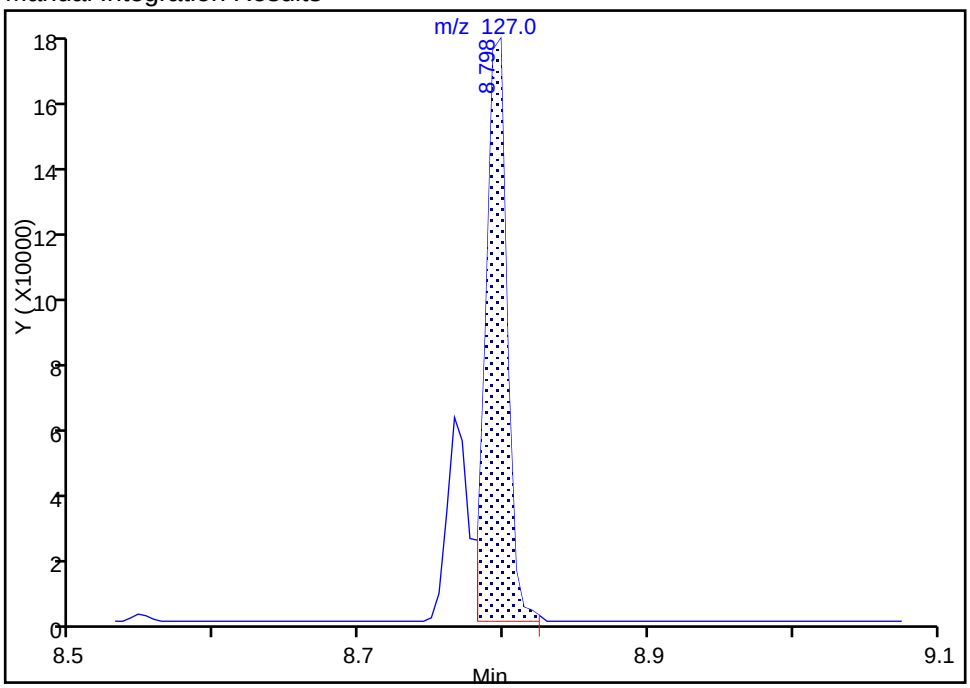
Processing Integration Results

RT: 8.80
Area: 171195
Amount: 76.783473
Amount Units: ng/uL



Manual Integration Results

RT: 8.80
Area: 174986
Amount: 78.206758
Amount Units: ng/uL



Reviewer: richardsd, 30-Oct-2017 11:42:46
Audit Action: Assigned New Baseline Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328557.D
Lims ID: IC - List1 120
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 29-Oct-2017 19:37:30 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066819-007
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2017 12:50:48 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: richardsd Date: 30-Oct-2017 11:44:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.232	7.232	0.000	95	59058	40.0	40.0	
* 2 Naphthalene-d8	136	8.744	8.739	0.005	99	216077	40.0	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	0.000	96	110683	40.0	40.0	
* 4 Phenanthrene-d10	188	12.265	12.265	0.000	98	218884	40.0	40.0	
* 5 Chrysene-d12	240	14.717	14.717	0.000	96	340493	40.0	40.0	
* 6 Perylene-d12	264	16.501	16.496	0.005	99	384096	40.0	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	96	234924	120.0	118.9	
$ 8 Phenol-d5	99	6.735	6.730	0.005	97	293201	120.0	120.7	
$ 9 Nitrobenzene-d5	82	7.868	7.868	0.000	94	285506	120.0	121.5	
$ 10 2-Fluorobiphenyl	172	9.994	9.989	0.005	100	500305	120.0	115.9	
$ 11 2,4,6-Tribromophenol	330	11.586	11.581	0.005	95	88215	120.0	120.6	
$ 12 p-Terphenyl-d14	244	13.675	13.675	0.000	99	722818	120.0	117.9	
23 1,4-Dioxane	88	3.423	3.423	0.000	93	114163	120.0	118.0	
24 N-Nitrosodimethylamine	42	3.845	3.845	0.000	90	174729	120.0	118.0	
25 Pyridine	52	3.947	3.947	0.000	82	564066	240.0	236.6	
32 Benzaldehyde	77	6.709	6.703	0.006	92	201678	120.0	119.6	
33 Phenol	94	6.751	6.746	0.005	98	303625	120.0	119.6	
34 Aniline	93	6.826	6.826	0.000	95	375489	120.0	119.3	
35 Bis(2-chloroethyl)ether	93	6.874	6.869	0.005	92	242662	120.0	116.2	
37 2-Chlorophenol	128	6.987	6.981	0.006	96	230473	120.0	120.4	
38 n-Decane	57	7.013	7.008	0.005	92	370343	120.0	115.1	
39 1,3-Dichlorobenzene	146	7.174	7.174	0.000	97	274842	120.0	116.6	
40 1,4-Dichlorobenzene	146	7.254	7.254	0.000	93	278749	120.0	117.6	
41 Benzyl alcohol	108	7.355	7.355	0.000	90	158900	120.0	122.3	
42 1,2-Dichlorobenzene	146	7.441	7.441	0.000	96	261760	120.0	117.5	
43 2-Methylphenol	108	7.467	7.467	0.000	98	210894	120.0	119.5	
44 2,2'-oxybis[1-chloropropan	45	7.515	7.510	0.005	93	443416	120.0	115.3	
45 Indene	115	7.547	7.542	0.005	90	1186703	360.0	349.8	
46 4-Methylphenol	108	7.644	7.638	0.006	93	221976	120.0	120.9	
47 N-Nitrosodi-n-propylamine	70	7.665	7.660	0.005	93	183848	120.0	121.5	
49 Acetophenone	105	7.681	7.676	0.005	92	308179	120.0	119.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.852	7.852	0.000	92	102503	120.0	120.1	
54 Nitrobenzene	77	7.895	7.889	0.006	93	260851	120.0	120.4	
56 Isophorone	82	8.162	8.162	0.000	98	454505	120.0	120.3	
59 2-Nitrophenol	139	8.274	8.269	0.005	96	117100	120.0	120.9	
60 2,4-Dimethylphenol	107	8.279	8.274	0.005	94	231535	120.0	119.4	
64 Benzoic acid	105	8.408	8.370	0.038	92	457682	360.0	365.9	M
62 Bis(2-chloroethoxy)methane	93	8.386	8.386	0.000	95	274401	120.0	116.7	
67 2,4-Dichlorophenol	162	8.552	8.547	0.005	95	202666	120.0	122.6	
68 1,2,4-Trichlorobenzene	180	8.669	8.664	0.005	94	228675	120.0	116.5	
70 Naphthalene	128	8.771	8.766	0.005	98	622822	120.0	115.5	
72 4-Chloroaniline	127	8.798	8.792	0.006	95	269160	120.0	118.6	
73 2,6-Dichlorophenol	162	8.819	8.819	0.000	96	197284	120.0	120.1	
74 Hexachlorobutadiene	225	8.910	8.910	0.000	94	148816	120.0	118.4	
76 Caprolactam	113	9.193	9.172	0.021	74	67135	120.0	117.4	
80 4-Chloro-3-methylphenol	107	9.342	9.337	0.005	96	191307	120.0	123.0	
83 2-Methylnaphthalene	142	9.583	9.583	0.000	92	439495	120.0	119.4	
85 1-Methylnaphthalene	142	9.706	9.706	0.000	93	410814	120.0	116.4	
86 Hexachlorocyclopentadiene	237	9.781	9.781	0.000	95	174419	120.0	117.7	
87 1,2,4,5-Tetrachlorobenzene	216	9.786	9.786	0.000	97	233996	120.0	116.0	
89 2,4,6-Trichlorophenol	196	9.898	9.898	0.000	93	151400	120.0	122.8	
91 2,4,5-Trichlorophenol	196	9.941	9.941	0.000	95	161510	120.0	117.9	
94 1,1'-Biphenyl	154	10.112	10.112	0.000	96	536864	120.0	116.0	
95 2-Chloronaphthalene	162	10.155	10.155	-0.001	96	435281	120.0	116.3	
98 2-Nitroaniline	65	10.240	10.235	0.005	80	142548	120.0	117.0	
102 Dimethyl phthalate	163	10.416	10.416	0.000	99	488289	120.0	117.3	
103 1,3-Dinitrobenzene	168	10.459	10.459	0.000	84	81880	120.0	120.7	
104 2,6-Dinitrotoluene	165	10.491	10.491	0.000	94	117304	120.0	118.2	
105 Acenaphthylene	152	10.619	10.619	0.000	98	614483	120.0	117.4	
106 3-Nitroaniline	138	10.683	10.683	0.000	90	118612	120.0	117.5	
107 2,4-Dinitrophenol	184	10.796	10.790	0.006	83	132947	240.0	255.1	
108 Acenaphthene	153	10.806	10.806	0.000	95	416676	120.0	116.1	
109 4-Nitrophenol	109	10.833	10.828	0.005	95	139248	240.0	232.6	
111 2,4-Dinitrotoluene	165	10.934	10.929	0.005	93	151903	120.0	115.6	
112 Dibenzofuran	168	10.988	10.983	0.005	96	591369	120.0	114.9	
116 2,3,4,6-Tetrachlorophenol	232	11.105	11.105	0.000	71	145262	120.0	117.3	
118 Diethyl phthalate	149	11.164	11.159	0.005	98	471497	120.0	116.4	
119 Hexadecane	57	11.170	11.170	0.000	91	386500	120.0	114.3	
121 4-Chlorophenyl phenyl ethe	204	11.314	11.314	0.000	91	263868	120.0	115.8	
122 4-Nitroaniline	138	11.330	11.325	0.006	84	127967	120.0	116.1	
123 Fluorene	166	11.340	11.341	-0.001	94	487342	120.0	115.6	
125 4,6-Dinitro-2-methylphenol	198	11.362	11.357	0.005	88	171560	240.0	243.2	
128 Diphenylamine	169	11.426	11.426	0.000	93	362773	102.6	102.3	
127 N-Nitrosodiphenylamine	169	11.426	11.426	0.000	64	362773	120.0	119.7	
129 1,2-Diphenylhydrazine	77	11.474	11.474	0.000	97	502097	120.0	118.8	
130 Azobenzene	77	11.474	11.474	0.000	98	502097	120.0	118.8	
137 4-Bromophenyl phenyl ether	248	11.805	11.805	0.000	65	173709	120.0	122.2	
139 Hexachlorobenzene	284	11.907	11.907	0.000	95	178597	120.0	120.5	
141 Atrazine	200	11.917	11.918	-0.001	92	141767	120.0	118.9	
144 n-Octadecane	57	12.067	12.067	0.000	92	387600	120.0	117.9	
143 Pentachlorophenol	266	12.078	12.078	0.000	94	227674	240.0	241.5	
150 Phenanthrene	178	12.291	12.286	0.005	98	737448	120.0	116.8	
151 Anthracene	178	12.339	12.334	0.005	97	771984	120.0	118.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.462	12.462	0.000	97	680405	120.0	117.9	
155 Di-n-butyl phthalate	149	12.713	12.713	0.000	100	785605	120.0	120.2	
162 Fluoranthene	202	13.381	13.376	0.005	98	861626	120.0	119.1	
164 Benzidine	184	13.451	13.445	0.006	99	556632	120.0	125.2	
165 Pyrene	202	13.595	13.595	0.000	97	895167	120.0	117.5	
172 Butyl benzyl phthalate	149	14.065	14.065	0.000	98	414060	120.0	122.4	
178 Bis(2-ethylhexyl) phthalat	149	14.562	14.557	0.005	97	576145	120.0	124.6	
179 3,3'-Dichlorobenzidine	252	14.626	14.621	0.005	73	483236	120.0	123.4	
181 Benzo[a]anthracene	228	14.706	14.701	0.005	97	1146565	120.0	117.3	
182 Chrysene	228	14.749	14.744	0.005	96	1095026	120.0	116.1	
183 Di-n-octyl phthalate	149	15.224	15.219	0.005	99	1057493	120.0	124.8	
185 Benzo[b]fluoranthene	252	15.956	15.951	0.005	96	1304196	120.0	115.8	
187 Benzo[k]fluoranthene	252	15.994	15.983	0.011	97	1399506	120.0	121.1	
190 Benzo[a]pyrene	252	16.426	16.421	0.005	76	1319160	120.0	120.5	
193 Dibenz(a,h)anthracene	278	18.339	18.328	0.011	91	1266937	120.0	122.0	
194 Indeno[1,2,3-cd]pyrene	276	18.355	18.339	0.016	97	1499753	120.0	122.7	
195 Benzo[g,h,i]perylene	276	18.926	18.911	0.016	98	1161133	120.0	120.2	
S 254 Total Cresols	1				0			240.4	
S 257 3 & 4 Methylphenol	108				0			120.9	
S 256 3-Methylphenol	1				0			120.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00528	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

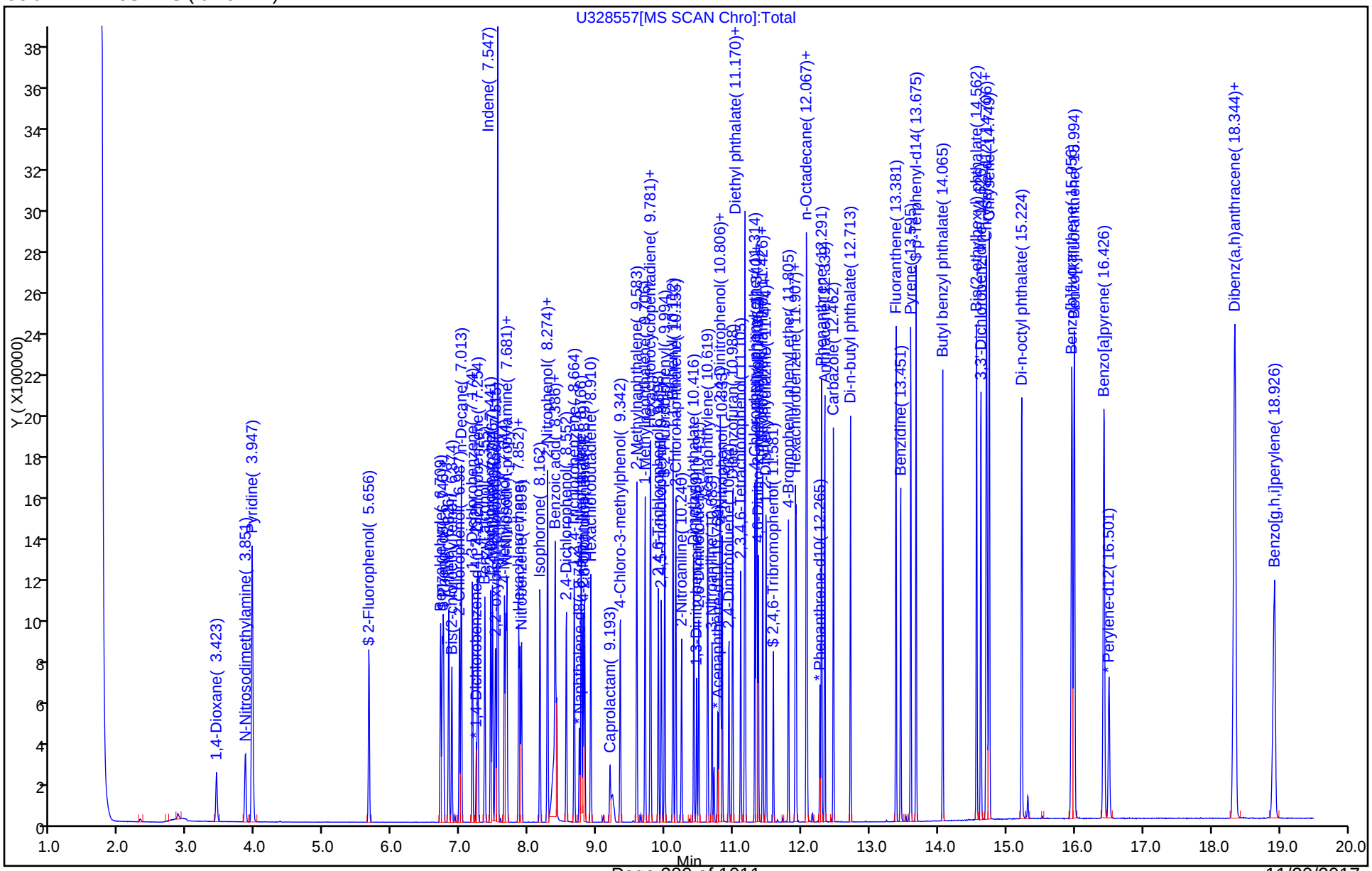
Report Date: 30-Oct-2017 12:50:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328557.D

Injection Date:	29-Oct-2017 19:37:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 120			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

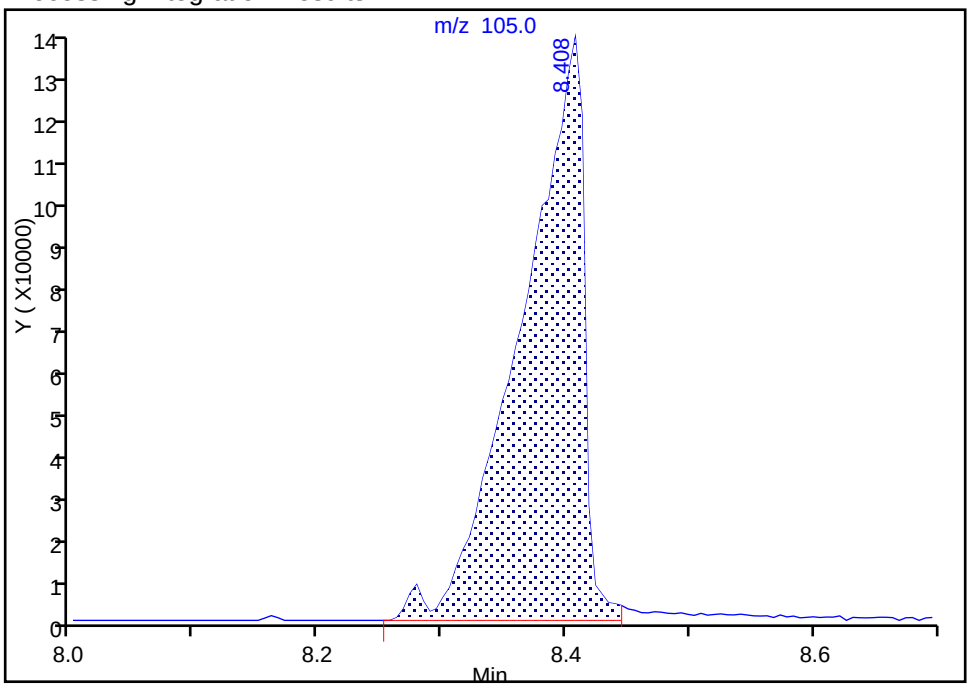
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328557.D
Injection Date: 29-Oct-2017 19:37:30 Instrument ID: HP5973U
Lims ID: IC - List1 120
Client ID:
Operator ID: DR ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

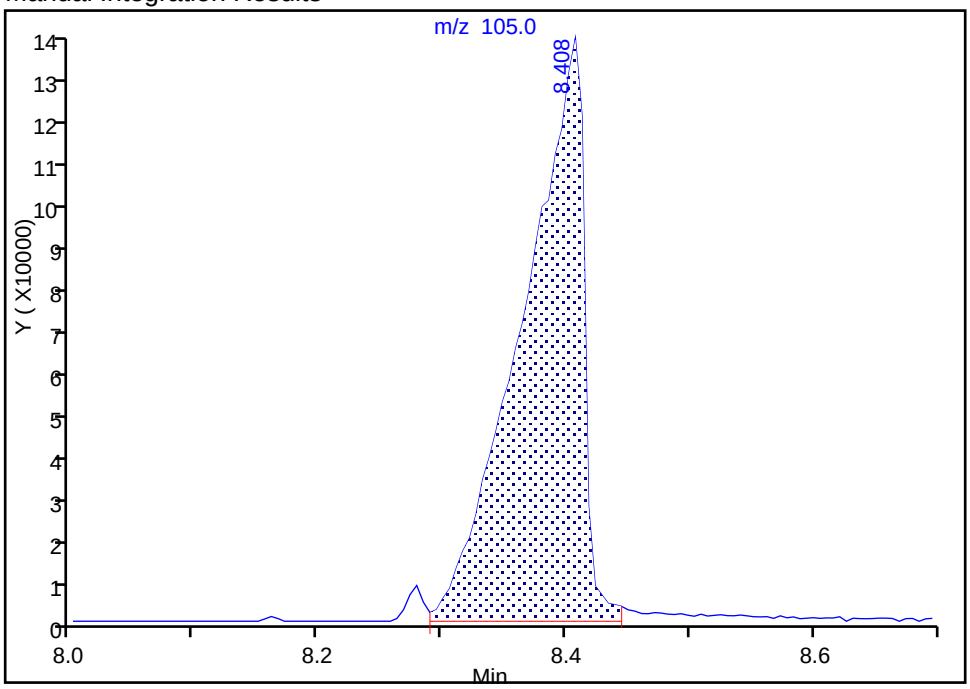
Processing Integration Results

RT: 8.41
Area: 464684
Amount: 367.3092
Amount Units: ng/uL



Manual Integration Results

RT: 8.41
Area: 457682
Amount: 365.9323
Amount Units: ng/uL



Reviewer: richardsd, 30-Oct-2017 11:43:59
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328558.D
Lims ID: IC - List1 160
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Oct-2017 20:04:30 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066819-008
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2017 12:50:53 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: richardsd Date: 30-Oct-2017 11:46:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.232	7.232	0.000	96	55751	40.0	40.0	
* 2 Naphthalene-d8	136	8.744	8.739	0.005	99	200815	40.0	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	0.000	97	99557	40.0	40.0	
* 4 Phenanthrene-d10	188	12.265	12.265	0.000	98	213427	40.0	40.0	
* 5 Chrysene-d12	240	14.722	14.717	0.005	96	344852	40.0	40.0	
* 6 Perylene-d12	264	16.501	16.496	0.005	99	380619	40.0	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	95	301185	160.0	161.4	
$ 8 Phenol-d5	99	6.736	6.730	0.006	96	369323	160.0	161.0	
$ 9 Nitrobenzene-d5	82	7.868	7.868	0.000	94	356675	160.0	163.4	
$ 10 2-Fluorobiphenyl	172	9.994	9.989	0.005	100	624357	160.0	160.8	
$ 11 2,4,6-Tribromophenol	330	11.586	11.581	0.005	95	118313	160.0	165.1	
$ 12 p-Terphenyl-d14	244	13.675	13.675	0.000	99	974086	160.0	156.9	
23 1,4-Dioxane	88	3.423	3.423	0.000	91	144304	160.0	158.0	
24 N-Nitrosodimethylamine	42	3.851	3.845	0.006	89	225121	160.0	161.0	
25 Pyridine	52	3.947	3.947	0.000	83	716265	320.0	318.2	
32 Benzaldehyde	77	6.709	6.703	0.006	92	243947	160.0	153.2	
33 Phenol	94	6.752	6.746	0.006	98	379481	160.0	158.3	
34 Aniline	93	6.826	6.826	0.000	95	471392	160.0	158.7	
35 Bis(2-chloroethyl)ether	93	6.874	6.869	0.005	93	306091	160.0	155.2	
37 2-Chlorophenol	128	6.987	6.981	0.006	95	292138	160.0	161.7	
38 n-Decane	57	7.013	7.008	0.005	92	477337	160.0	157.1	
39 1,3-Dichlorobenzene	146	7.174	7.174	0.000	98	357536	160.0	160.6	
40 1,4-Dichlorobenzene	146	7.254	7.254	0.000	92	355435	160.0	158.9	
41 Benzyl alcohol	108	7.361	7.355	0.006	90	199259	160.0	162.5	
42 1,2-Dichlorobenzene	146	7.441	7.441	0.000	96	335526	160.0	159.6	
43 2-Methylphenol	108	7.467	7.467	0.000	98	269196	160.0	161.6	
44 2,2'-oxybis[1-chloropropan	45	7.515	7.510	0.005	93	555388	160.0	152.9	
45 Indene	115	7.548	7.542	0.006	90	1477723	480.0	461.5	
46 4-Methylphenol	108	7.644	7.638	0.006	92	282885	160.0	163.2	
47 N-Nitrosodi-n-propylamine	70	7.665	7.660	0.005	93	230496	160.0	161.4	
49 Acetophenone	105	7.681	7.676	0.005	91	385585	160.0	158.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.852	7.852	0.000	92	128759	160.0	159.9	
54 Nitrobenzene	77	7.895	7.889	0.006	92	327093	160.0	162.4	
56 Isophorone	82	8.167	8.162	0.005	98	566671	160.0	161.4	
59 2-Nitrophenol	139	8.274	8.269	0.005	92	148208	160.0	164.1	
60 2,4-Dimethylphenol	107	8.279	8.274	0.005	94	290097	160.0	160.9	
64 Benzoic acid	105	8.424	8.370	0.054	92	597760	480.0	509.5	M
62 Bis(2-chloroethoxy)methane	93	8.386	8.386	0.000	96	339794	160.0	155.4	
67 2,4-Dichlorophenol	162	8.552	8.547	0.005	95	253728	160.0	165.1	
68 1,2,4-Trichlorobenzene	180	8.669	8.664	0.005	93	287743	160.0	157.7	
70 Naphthalene	128	8.771	8.766	0.005	97	774473	160.0	154.5	
72 4-Chloroaniline	127	8.798	8.792	0.006	95	338812	160.0	160.6	
73 2,6-Dichlorophenol	162	8.819	8.819	0.000	96	246514	160.0	161.5	
74 Hexachlorobutadiene	225	8.910	8.910	0.000	94	187842	160.0	160.8	
76 Caprolactam	113	9.198	9.172	0.026	75	88002	160.0	164.8	
80 4-Chloro-3-methylphenol	107	9.343	9.337	0.006	97	242206	160.0	167.5	
83 2-Methylnaphthalene	142	9.583	9.583	0.000	92	541008	160.0	158.2	
85 1-Methylnaphthalene	142	9.706	9.706	0.000	93	514193	160.0	156.7	
86 Hexachlorocyclopentadiene	237	9.781	9.781	0.000	94	223126	160.0	166.6	
87 1,2,4,5-Tetrachlorobenzene	216	9.786	9.786	0.000	97	294701	160.0	162.4	
89 2,4,6-Trichlorophenol	196	9.898	9.898	0.000	93	193620	160.0	174.6	
91 2,4,5-Trichlorophenol	196	9.946	9.941	0.005	95	204273	160.0	165.3	
94 1,1'-Biphenyl	154	10.112	10.112	0.000	96	666906	160.0	160.3	
95 2-Chloronaphthalene	162	10.155	10.155	0.000	96	536552	160.0	159.4	
98 2-Nitroaniline	65	10.240	10.235	0.005	80	184689	160.0	167.6	
102 Dimethyl phthalate	163	10.422	10.416	0.006	98	613702	160.0	164.0	
103 1,3-Dinitrobenzene	168	10.464	10.459	0.005	91	107335	160.0	168.9	
104 2,6-Dinitrotoluene	165	10.491	10.491	0.000	94	150685	160.0	168.1	
105 Acenaphthylene	152	10.619	10.619	0.000	98	774627	160.0	164.5	
106 3-Nitroaniline	138	10.689	10.683	0.006	90	152101	160.0	166.8	
107 2,4-Dinitrophenol	184	10.796	10.790	0.006	85	179436	320.0	378.7	
108 Acenaphthene	153	10.806	10.806	0.000	95	523669	160.0	162.3	
109 4-Nitrophenol	109	10.838	10.828	0.010	95	185360	320.0	342.1	
111 2,4-Dinitrotoluene	165	10.935	10.929	0.006	94	203293	160.0	170.9	
112 Dibenzofuran	168	10.988	10.983	0.005	96	748397	160.0	161.6	
116 2,3,4,6-Tetrachlorophenol	232	11.105	11.105	0.000	70	191169	160.0	170.8	
118 Diethyl phthalate	149	11.164	11.159	0.005	98	606802	160.0	166.5	
119 Hexadecane	57	11.170	11.170	0.000	91	475098	160.0	156.1	
121 4-Chlorophenyl phenyl ethe	204	11.314	11.314	0.000	91	338128	160.0	165.0	
122 4-Nitroaniline	138	11.335	11.325	0.011	84	167544	160.0	168.1	
123 Fluorene	166	11.346	11.341	0.005	94	626336	160.0	165.2	
125 4,6-Dinitro-2-methylphenol	198	11.367	11.357	0.010	88	233900	320.0	337.0	
127 N-Nitrosodiphenylamine	169	11.426	11.426	0.000	64	467680	160.0	158.3	
128 Diphenylamine	169	11.426	11.426	0.000	94	467680	136.8	135.3	
130 Azobenzene	77	11.479	11.474	0.005	98	642264	160.0	155.8	
129 1,2-Diphenylhydrazine	77	11.479	11.474	0.005	98	642264	160.0	155.8	
137 4-Bromophenyl phenyl ether	248	11.805	11.805	0.000	65	219495	160.0	158.4	
139 Hexachlorobenzene	284	11.907	11.907	0.000	95	231748	160.0	160.3	
141 Atrazine	200	11.918	11.918	0.000	94	183305	160.0	170.9	
144 n-Octadecane	57	12.067	12.067	0.000	92	488141	160.0	152.3	
143 Pentachlorophenol	266	12.078	12.078	0.000	94	303526	320.0	328.3	
150 Phenanthrene	178	12.291	12.286	0.005	98	954466	160.0	155.0	
151 Anthracene	178	12.340	12.334	0.006	96	1001633	160.0	157.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.468	12.462	0.006	98	890602	160.0	158.3	
155 Di-n-butyl phthalate	149	12.713	12.713	0.000	100	1032746	160.0	162.1	
162 Fluoranthene	202	13.381	13.376	0.005	98	1145427	160.0	162.3	
164 Benzidine	184	13.451	13.445	0.006	98	723462	160.0	160.7	
165 Pyrene	202	13.600	13.595	0.005	95	1185953	160.0	153.7	
172 Butyl benzyl phthalate	149	14.065	14.065	0.000	98	556860	160.0	162.6	
178 Bis(2-ethylhexyl) phthalat	149	14.562	14.557	0.005	97	772257	160.0	164.8	
179 3,3'-Dichlorobenzidine	252	14.626	14.621	0.005	73	650843	160.0	164.1	
181 Benzo[a]anthracene	228	14.706	14.701	0.005	97	1516260	160.0	153.1	
182 Chrysene	228	14.749	14.744	0.005	95	1466687	160.0	153.5	
183 Di-n-octyl phthalate	149	15.224	15.219	0.005	99	1421848	160.0	165.6	
185 Benzo[b]fluoranthene	252	15.962	15.951	0.011	95	1821958	160.0	163.3	
187 Benzo[k]fluoranthene	252	15.994	15.983	0.011	97	1797945	160.0	157.0	
190 Benzo[a]pyrene	252	16.432	16.421	0.011	76	1762721	160.0	162.5	
193 Dibenz(a,h)anthracene	278	18.350	18.328	0.022	92	1654937	160.0	160.9	
194 Indeno[1,2,3-cd]pyrene	276	18.360	18.339	0.021	97	1943950	160.0	160.5	
195 Benzo[g,h,i]perylene	276	18.932	18.911	0.022	98	1527230	160.0	159.6	
S 256 3-Methylphenol	1				0			163.2	
S 254 Total Cresols	1				0			324.8	
S 257 3 & 4 Methylphenol	108				0			163.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00529	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

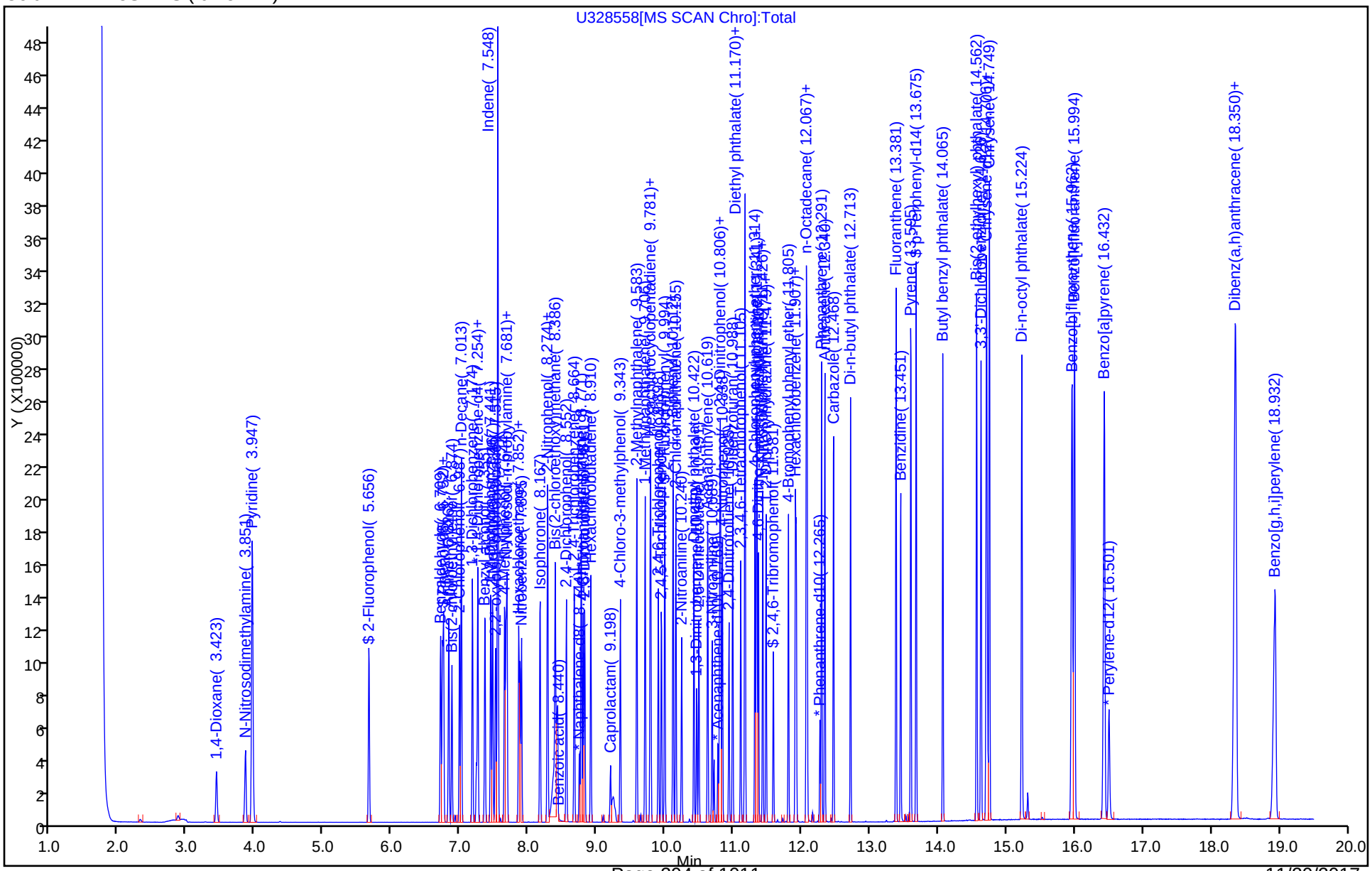
Report Date: 30-Oct-2017 12:50:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328558.D

Injection Date:	29-Oct-2017 20:04:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 160			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

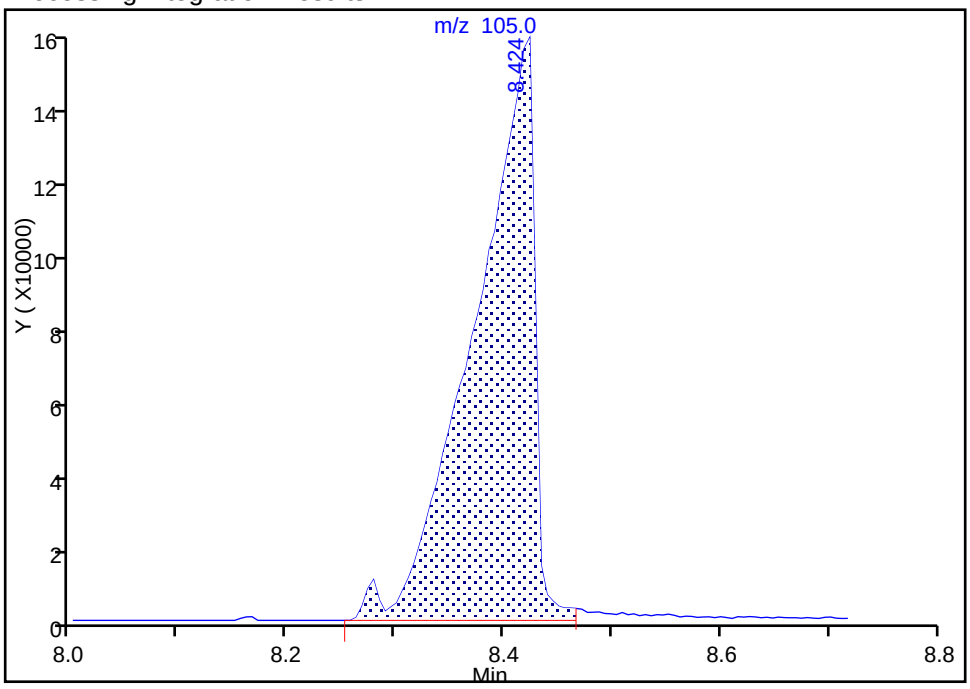
Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328558.D				
Injection Date:	29-Oct-2017 20:04:30	Instrument ID:	HP5973U		
Lims ID:	IC - List1 160				
Client ID:					
Operator ID:	DR	ALS Bottle#:	9	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

64 Benzoic acid, CAS: 65-85-0

Signal: 1

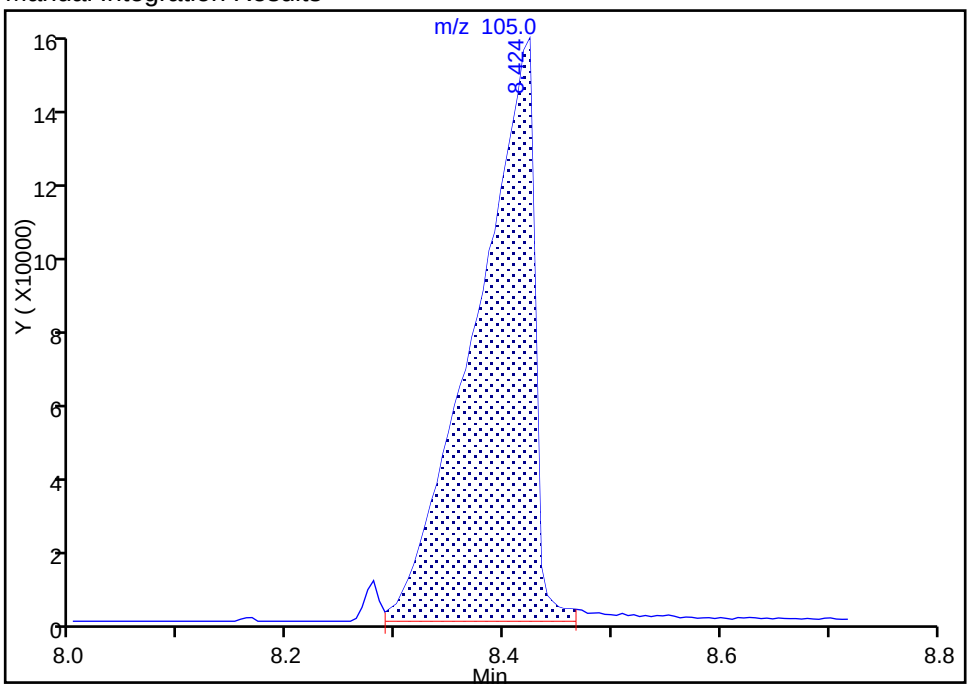
Processing Integration Results

RT: 8.42
Area: 607273
Amount: 513.9167
Amount Units: ng/uL



Manual Integration Results

RT: 8.42
Area: 597760
Amount: 509.4947
Amount Units: ng/uL



Reviewer: richardsd, 30-Oct-2017 11:44:41

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 382697

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 12:41 Calibration End Date: 10/19/2017 14:53 Calibration ID: 31776

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-382697/3	X20655.D
Level 2	IC 480-382697/4	X20656.D
Level 3	ICIS 480-382697/5	X20657.D
Level 4	IC 480-382697/6	X20658.D
Level 5	IC 480-382697/7	X20659.D
Level 6	IC 480-382697/8	X20660.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.5922 0.5831	0.5951	0.5917	0.6037	0.6315	Ave		0.5995				2.8		20.0			
N-Nitrosodimethylamine	0.5656 0.5368	0.5662	0.5735	0.5453	0.5753	Ave		0.5605				2.8		20.0			
Pyridine	0.8974 0.8072	0.8725	0.8801	0.8284	0.8789	Lin1	0.9767	0.8366							0.9980		0.9900
Benzaldehyde	1.0472 +++++	1.0548	1.0186	0.8520	0.6693	Ave		0.9284			0.0100	18.0		20.0			
Aniline	2.0948 1.8361	2.0277	2.1111	2.0583	1.9704	Ave		2.0164				5.0		20.0			
Phenol	1.7775 1.6054	1.7777	1.8344	1.7338	1.7103	Ave		1.7398			0.8000	4.5		20.0			
Bis(2-chloroethyl)ether	1.3641 1.1818	1.2425	1.3010	1.2910	1.2322	Ave		1.2688			0.7000	5.0		20.0			
2-Chlorophenol	1.3386 1.1898	1.3299	1.2214	1.2510	1.2409	Ave		1.2619			0.8000	4.7		20.0			
n-Decane	1.3278 1.2523	1.3415	1.3536	1.3338	1.3211	Ave		1.3217			0.0100	2.7		20.0			
1,3-Dichlorobenzene	1.5916 1.4499	1.4830	1.5025	1.4663	1.4591	Ave		1.4921				3.5		20.0			
1,4-Dichlorobenzene	1.6645 1.4473	1.6023	1.5317	1.5420	1.4681	Ave		1.5427				5.3		20.0			
Benzyl alcohol	0.8169 0.7601	0.7866	0.8946	0.8171	0.8229	Lin1	0.3113	0.8010							0.9960		0.9900
1,2-Dichlorobenzene	1.6227 1.2141	1.4209	1.4764	1.3293	1.3585	Lin1	2.3563	1.2870							0.9950		0.9900
Indene	0.5990 0.5647	0.6613	0.5991	0.6544	0.6632	Ave		0.6236				6.7		20.0			
2-Methylphenol	1.2512 1.0206	1.1974	1.1481	1.1027	1.1345	Lin1	1.3959	1.0733			0.7000				0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 382697

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 12:41 Calibration End Date: 10/19/2017 14:53 Calibration ID: 31776

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	1.5763 1.1888	1.4211	1.3549	1.2827	1.2791	Lin1	2.3874	1.2323			0.0100				0.9980		0.9900
Acetophenone	1.6292 1.5238	1.7612	1.7470	1.6868	1.6193	Ave		1.6612			0.0100	5.4		20.0			
N-Nitrosodi-n-propylamine	0.8427 0.7993	0.9033	0.9054	0.8544	0.8509	Ave		0.8593			0.5000	4.7		20.0			
4-Methylphenol	1.0936 1.0948	1.2514	1.2354	1.1981	1.1536	Ave		1.1711			0.6000	5.8		20.0			
Hexachloroethane	0.5397 0.5367	0.5870	0.5746	0.5766	0.5661	Ave		0.5634			0.3000	3.7		20.0			
Nitrobenzene	0.3707 0.4099	0.3856	0.4184	0.4265	0.3960	Ave		0.4012			0.2000	5.2		20.0			
Isophorone	0.6054 0.7229	0.6693	0.7370	0.6508	0.6535	Lin1	-0.424	0.6941			0.4000				0.9960		0.9900
2-Nitrophenol	0.1535 0.2174	0.1967	0.2246	0.2035	0.1989	Lin1	-0.274	0.2127			0.1000				0.9970		0.9900
2,4-Dimethylphenol	0.3576 0.3970	0.4163	0.4321	0.4051	0.3835	Lin1	-0.017	0.3995			0.2000				0.9980		0.9900
Bis(2-chloroethoxy)methane	0.4240 0.4285	0.4562	0.4779	0.4517	0.4151	Ave		0.4422			0.3000	5.4		20.0			
Benzoic acid	0.0590 +++++	0.1477	0.2157	0.2254	0.2388	Lin1	-3.262	0.2406							0.9960		0.9900
2,4-Dichlorophenol	0.2873 0.3478	0.3445	0.3635	0.3037	0.3139	Lin1	-0.126	0.3330			0.2000				0.9940		0.9900
1,2,4-Trichlorobenzene	0.3986 0.3681	0.3782	0.3908	0.3697	0.3761	Ave		0.3803				3.2		20.0			
Naphthalene	1.1342 0.9622	1.1121	1.1068	1.0348	0.9755	Ave		1.0543			0.7000	7.0		20.0			
4-Chloroaniline	0.3874 0.4104	0.4518	0.4219	0.4411	0.4059	Lin1	0.0552	0.4170			0.0100				0.9980		0.9900
2,6-Dichlorophenol	0.2848 0.3146	0.3408	0.3125	0.3354	0.3071	Lin1	-0.031	0.3174							0.9980		0.9900
Hexachlorobutadiene	0.2607 0.2622	0.2472	0.2730	0.2673	0.2521	Ave		0.2604			0.0100	3.7		20.0			
Caprolactam	0.1030 0.1153	0.1055	0.1056	0.1041	0.1023	Lin1	-0.055	0.1087			0.0100				0.9960		0.9900
4-Chloro-3-methylphenol	0.2912 0.3388	0.3163	0.3331	0.3133	0.3044	Lin1	-0.174	0.3248			0.2000				0.9970		0.9900
2-Methylnaphthalene	0.7235 0.7330	0.7504	0.7691	0.7306	0.6763	Ave		0.7305			0.4000	4.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 382697

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 12:41 Calibration End Date: 10/19/2017 14:53 Calibration ID: 31776

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6347 0.6927	0.7057	0.6590	0.6713	0.6361	Ave		0.6666			0.0100	4.4		20.0			
Hexachlorocyclopentadiene	0.4903 0.6570	0.5649	0.5520	0.7048	0.6333	Lin1	-1.138	0.6567			0.0500				0.9950		0.9900
1,2,4,5-Tetrachlorobenzene	0.7804 0.8217	0.7477	0.7471	0.9067	0.7867	Ave		0.7984			0.0100	7.5		20.0			
2,4,6-Trichlorophenol	0.4073 0.5232	0.4328	0.4700	0.5364	0.4898	Lin1	-0.790	0.5157			0.2000				0.9970		0.9900
2,4,5-Trichlorophenol	0.4319 0.5454	0.4686	0.4914	0.5804	0.5092	Lin1	-0.737	0.5410			0.2000				0.9960		0.9900
Biphenyl	1.6275 1.7120	1.6644	1.7036	1.6946	1.6320	Ave		1.6724			0.0100	2.2		20.0			
2-Chloronaphthalene	1.2930 1.3740	1.3059	1.3300	1.3355	1.3015	Ave		1.3233			0.8000	2.3		20.0			
2-Nitroaniline	0.3042 0.3812	0.3494	0.3547	0.3628	0.3653	Lin1	-0.423	0.3739			0.0100				0.9990		0.9900
Dimethyl phthalate	1.4859 1.4282	1.4870	1.4658	1.4314	1.4077	Ave		1.4510			0.0100	2.3		20.0			
1,3-Dinitrobenzene	0.1247 0.1419	0.1227	0.1443	0.1230	0.1318	Lin1	-0.096	0.1361							0.9960		0.9900
2,6-Dinitrotoluene	0.3018 0.3629	0.3448	0.3495	0.3548	0.3458	Lin1	-0.290	0.3576							1.0000		0.9900
Acenaphthylene	1.8325 1.9429	1.7940	1.9154	1.9179	1.8599	Ave		1.8771			0.9000	3.1		20.0			
3-Nitroaniline	0.3101 0.3681	0.3297	0.3508	0.3532	0.3452	Lin1	-0.330	0.3592			0.0100				0.9990		0.9900
Acenaphthene	1.3357 1.1978	1.1713	1.2568	1.2988	1.2454	Ave		1.2509			0.9000	4.9		20.0			
2,4-Dinitrophenol	0.0820 0.2733	0.1676	0.2225	0.2406	0.2534	Lin1	-2.370	0.2652			0.0100				0.9950		0.9900
4-Nitrophenol	0.1273 0.2358	0.1689	0.1899	0.2225	0.2211	Lin1	-1.425	0.2295			0.0100				0.9960		0.9900
Dibenzofuran	1.8166 1.7361	1.8648	1.8417	1.8736	1.8050	Ave		1.8230			0.8000	2.8		20.0			
2,4-Dinitrotoluene	0.3700 0.4420	0.4410	0.4453	0.4699	0.4492	Lin1	-0.347	0.4534			0.2000				0.9990		0.9900
2,3,4,6-Tetrachlorophenol	0.3115 0.4502	0.3763	0.3961	0.4543	0.4255	Lin1	-0.857	0.4447			0.0100				0.9980		0.9900
Diethyl phthalate	1.4572 1.4462	1.4297	1.2672	1.5716	1.3640	Ave		1.4227			0.0100	7.1		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 Buffalo Job No.: 480-127239-1 Analy Batch No.: 382697

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 12:41 Calibration End Date: 10/19/2017 14:53 Calibration ID: 31776

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexadecane	0.7500 0.7902	0.7654	0.7087	0.9021	0.7735	Ave		0.7816			0.0100	8.3		20.0			
Fluorene	1.3815 1.4688	1.5188	1.3968	1.6776	1.4091	Ave		1.4754			0.9000	7.6		20.0			
4-Chlorophenyl phenyl ether	0.7849 0.8322	0.8403	0.7882	0.9502	0.7923	Ave		0.8313			0.4000	7.6		20.0			
4-Nitroaniline	0.2816 0.3635	0.3407	0.3285	0.3947	0.3447	Lin1	-0.441	0.3641			0.0100				0.9960		0.9900
4,6-Dinitro-2-methylphenol	0.0745 0.1514	0.1175	0.1380	0.1428	0.1438	Lin1	-0.882	0.1498			0.0100				0.9990		0.9900
Diphenylamine	0.5899 0.6233	0.6136	0.6278	0.6310	0.6278	Ave		0.6189				2.5		20.0			
N-Nitrosodiphenylamine	0.5044 0.5329	0.5247	0.5368	0.5395	0.5367	Ave		0.5292			0.0100	2.5		20.0			
1,2-Diphenylhydrazine	0.6495 0.6839	0.6852	0.6893	0.6967	0.6992	Ave		0.6840				2.6		20.0			
trans-Azobenzene	0.6495 0.6839	0.6852	0.6893	0.6967	0.6992	Ave		0.6840				2.6		20.0			
4-Bromophenyl phenyl ether	0.2236 0.2520	0.2466	0.2543	0.2521	0.2458	Ave		0.2457			0.1000	4.6		20.0			
Hexachlorobenzene	0.2308 0.2498	0.2510	0.2466	0.2560	0.2488	Ave		0.2472			0.1000	3.5		20.0			
Atrazine	0.3924 0.3950	0.4360	0.4332	0.4589	0.3850	Lin1	0.1822	0.4077			0.0100				0.9940		0.9900
Pentachlorophenol	0.0581 0.1423	0.1137	0.1423	0.1507	0.1579	Lin1	-1.028	0.1529			0.0500				0.9970		0.9900
n-Octadecane	0.3382 0.3753	0.3741	0.3826	0.3791	0.3767	Lin1	-0.161	0.3790			0.0100				1.0000		0.9900
Phenanthrene	1.0525 0.9469	1.0947	1.0365	1.0182	0.9995	Ave		1.0247			0.7000	4.9		20.0			
Anthracene	1.1288 1.0380	1.1232	1.0606	1.0633	1.0506	Ave		1.0774			0.7000	3.6		20.0			
Carbazole	0.9641 0.9125	0.9861	0.9536	0.9583	1.0388	Ave		0.9689			0.0100	4.3		20.0			
Di-n-butyl phthalate	1.0382 1.0891	1.0844	1.1005	1.1091	1.2145	Lin1	-0.613	1.1363			0.0100				0.9970		0.9900
Fluoranthene	1.2226 1.0399	1.2227	1.1887	1.1845	1.3198	Ave		1.1964			0.6000	7.6		20.0			
Benzidine	0.4322 0.3379	0.5800	0.5195	0.4777	0.3934	Ave		0.4568				19.2		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 Buffalo Job No.: 480-127239-1 Analy Batch No.: 382697

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 12:41 Calibration End Date: 10/19/2017 14:53 Calibration ID: 31776

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Pyrene	1.1413 1.0294	1.3176	1.1505	1.1185	1.0127	Ave		1.1283			0.6000	9.7		20.0			
Butyl benzyl phthalate	0.3909 0.4567	0.4954	0.4524	0.4638	0.4426	Lin1	-0.122	0.4563			0.0100				0.9990		0.9900
3,3'-Dichlorobenzidine	0.3639 0.4008	0.3991	0.4042	0.4123	0.4052	Lin1	-0.180	0.4065			0.0100				1.0000		0.9900
Benzo(a)anthracene	1.1461 1.0392	1.1188	1.0893	1.0872	1.0561	Lin1	0.7312	1.0532			0.8000				1.0000		0.9900
Chrysene	1.1302 0.9632	1.1182	1.0477	1.0280	0.9962	Ave		1.0473			0.7000	6.3		20.0			
Bis(2-ethylhexyl) phthalate	0.5898 0.6336	0.6243	0.6515	0.6424	0.6064	Lin1	-0.117	0.6305			0.0100				0.9990		0.9900
Di-n-octyl phthalate	0.9593 1.0563	1.1700	1.1019	1.0637	1.0555	Lin1	0.0276	1.0664			0.0100				0.9990		0.9900
Benzo(b)fluoranthene	1.1309 1.1142	1.1967	1.2112	1.1460	1.0985	Ave		1.1496			0.7000	3.9		20.0			
Benzo(k)fluoranthene	1.4057 1.1956	1.3666	1.3091	1.2449	1.2784	Ave		1.3000			0.7000	6.0		20.0			
Benzo(a)pyrene	1.1053 1.0918	1.2160	1.1546	1.1649	1.1181	Lin1	0.4538	1.1193			0.7000				0.9990		0.9900
Indeno(1,2,3-cd)pyrene	1.2987 1.3379	1.3904	1.3826	1.4497	1.3676	Lin1	-0.073	1.3748			0.5000				0.9990		0.9900
Dibenz(a,h)anthracene	1.1252 1.1194	1.1781	1.1669	1.2211	1.1588	Lin1	0.1230	1.1555							0.9990		0.9900
Benzo(g,h,i)perylene	1.1184 1.1398	1.2016	1.1685	1.2568	1.1811	Lin1	-0.026	1.1790			0.5000				0.9980		0.9900
2-Fluorophenol	1.2534 1.3473	1.2450	1.3206	1.2553	1.3258	Ave		1.2912				3.5		20.0			
Phenol-d5	1.5607 1.4392	1.6347	1.5956	1.5985	1.5396	Ave		1.5614				4.4		20.0			
Nitrobenzene-d5	0.3683 0.4140	0.3830	0.4425	0.4340	0.4021	Ave		0.4073				7.1		20.0			
2-Fluorobiphenyl	1.6416 1.6874	1.7052	1.6495	1.6508	1.6010	Ave		1.6559				2.2		20.0			
2,4,6-Tribromophenol	0.0833 0.1211	0.1012	0.1124	0.1187	0.1180	Lin1	-0.233	0.1207							0.9990		0.9900
p-Terphenyl-d14	0.8629 0.7498	0.9338	0.8194	0.7924	0.7369	Lin1	1.2325	0.7548							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 382697

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 12:41 Calibration End Date: 10/19/2017 14:53 Calibration ID: 31776

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-382697/3	X20655.D
Level 2	IC 480-382697/4	X20656.D
Level 3	ICIS 480-382697/5	X20657.D
Level 4	IC 480-382697/6	X20658.D
Level 5	IC 480-382697/7	X20659.D
Level 6	IC 480-382697/8	X20660.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	15234 547450	62569	159543	276012	380092	5.00 160	20.0	50.0	80.0	120
N-Nitrosodimethylamine	DCBd 4	Ave	14551 503952	59528	154652	249337	346316	5.00 160	20.0	50.0	80.0	120
Pyridine	DCBd 4	Lin1	46170 1515682	183477	474613	757521	1058131	10.0 320	40.0	100	160	240
Benzaldehyde	DCBd 4	Ave	26939 +++++	110906	274661	389526	402858	5.00 +++++	20.0	50.0	80.0	120
Aniline	DCBd 4	Ave	53890 1723867	213203	569238	941059	1186066	5.00 160	20.0	50.0	80.0	120
Phenol	DCBd 4	Ave	45726 1507202	186911	494647	792724	1029495	5.00 160	20.0	50.0	80.0	120
Bis(2-chloroethyl)ether	DCBd 4	Ave	35092 1109544	130637	350817	590262	741720	5.00 160	20.0	50.0	80.0	120
2-Chlorophenol	DCBd 4	Ave	34437 1117034	139834	329344	571961	746957	5.00 160	20.0	50.0	80.0	120
n-Decane	DCBd 4	Ave	34157 1175764	141053	365004	609831	795219	5.00 160	20.0	50.0	80.0	120
1,3-Dichlorobenzene	DCBd 4	Ave	40945 1361240	155929	405143	670388	878279	5.00 160	20.0	50.0	80.0	120
1,4-Dichlorobenzene	DCBd 4	Ave	42821 1358838	168473	413019	705038	883712	5.00 160	20.0	50.0	80.0	120
Benzyl alcohol	DCBd 4	Lin1	21015 713652	82709	241211	373601	495350	5.00 160	20.0	50.0	80.0	120
1,2-Dichlorobenzene	DCBd 4	Lin1	41744 1139876	149393	398112	607766	817722	5.00 160	20.0	50.0	80.0	120
Indene	PHN	Ave	176856 5081421	729645	1721044	2901364	3676472	15.0 480	60.0	150	240	360
2-Methylphenol	DCBd 4	Lin1	32187 958150	125894	309579	504171	682906	5.00 160	20.0	50.0	80.0	120
bis (2-chloroisopropyl) ether	DCBd 4	Lin1	40550 1116094	149423	365340	586450	769938	5.00 160	20.0	50.0	80.0	120

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 382697

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 12:41 Calibration End Date: 10/19/2017 14:53 Calibration ID: 31776

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetophenone	DCBd 4	Ave	41912 1430590	185180	471058	771227	974707	5.00 160	20.0	50.0	80.0	120
N-Nitrosodi-n-propylamine	DCBd 4	Ave	21679 750411	94977	244144	390636	512163	5.00 160	20.0	50.0	80.0	120
4-Methylphenol	DCBd 4	Ave	28133 1027900	131571	333107	547792	694386	5.00 160	20.0	50.0	80.0	120
Hexachloroethane	DCBd 4	Ave	13884 503907	61719	154929	263615	340744	5.00 160	20.0	50.0	80.0	120
Nitrobenzene	NPT	Ave	33190 1172084	129428	360441	609265	758075	5.00 160	20.0	50.0	80.0	120
Isophorone	NPT	Lin1	54210 2067070	224631	634925	929609	1251071	5.00 160	20.0	50.0	80.0	120
2-Nitrophenol	NPT	Lin1	13745 621738	66027	193526	290673	380789	5.00 160	20.0	50.0	80.0	120
2,4-Dimethylphenol	NPT	Lin1	32022 1135169	139719	372263	578703	734153	5.00 160	20.0	50.0	80.0	120
Bis(2-chloroethoxy)methane	NPT	Ave	37967 1225297	153097	411710	645177	794733	5.00 160	20.0	50.0	80.0	120
Benzoic acid	NPT	Lin1	15853 +++++	148760	557345	965771	1371509	15.0 +++++	60.0	150	240	360
2,4-Dichlorophenol	NPT	Lin1	25729 994410	115627	313126	433853	600872	5.00 160	20.0	50.0	80.0	120
1,2,4-Trichlorobenzene	NPT	Ave	35694 1052533	126922	336686	528159	719998	5.00 160	20.0	50.0	80.0	120
Naphthalene	NPT	Ave	101561 2751393	373223	953431	1478213	1867531	5.00 160	20.0	50.0	80.0	120
4-Chloroaniline	NPT	Lin1	34685 1173661	151647	363494	630106	777154	5.00 160	20.0	50.0	80.0	120
2,6-Dichlorophenol	NPT	Lin1	25504 899494	114381	269237	479050	587986	5.00 160	20.0	50.0	80.0	120
Hexachlorobutadiene	NPT	Ave	23346 749866	82966	235194	381865	482697	5.00 160	20.0	50.0	80.0	120
Caprolactam	NPT	Lin1	9225 329678	35414	90968	148637	195809	5.00 160	20.0	50.0	80.0	120
4-Chloro-3-methylphenol	NPT	Lin1	26076 968898	106154	286927	447567	582809	5.00 160	20.0	50.0	80.0	120
2-Methylnaphthalene	NPT	Ave	64783 2095864	251839	662533	1043585	1294745	5.00 160	20.0	50.0	80.0	120
1-Methylnaphthalene	NPT	Ave	56835 1980851	236853	567735	958873	1217856	5.00 160	20.0	50.0	80.0	120
Hexachlorocyclopentadiene	ANT	Lin1	23039 952872	101085	261674	460081	598392	5.00 160	20.0	50.0	80.0	120

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 382697

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 12:41 Calibration End Date: 10/19/2017 14:53 Calibration ID: 31776

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	36674 1191875	133779	354131	591881	743355	5.00 160	20.0	50.0	80.0	120
2,4,6-Trichlorophenol	ANT	Lin1	19142 758833	77445	222779	350195	462819	5.00 160	20.0	50.0	80.0	120
2,4,5-Trichlorophenol	ANT	Lin1	20298 791095	83851	232937	378907	481182	5.00 160	20.0	50.0	80.0	120
Biphenyl	ANT	Ave	76480 2483058	297819	807546	1106271	1542142	5.00 160	20.0	50.0	80.0	120
2-Chloronaphthalene	ANT	Ave	60761 1992902	233660	630413	871817	1229777	5.00 160	20.0	50.0	80.0	120
2-Nitroaniline	ANT	Lin1	14297 552882	62513	168148	236864	345162	5.00 160	20.0	50.0	80.0	120
Dimethyl phthalate	ANT	Ave	69826 2071483	266077	694819	934459	1330143	5.00 160	20.0	50.0	80.0	120
1,3-Dinitrobenzene	NPT	Lin1	11169 405663	41175	124305	175686	252333	5.00 160	20.0	50.0	80.0	120
2,6-Dinitrotoluene	ANT	Lin1	14182 526368	61691	165655	231639	326780	5.00 160	20.0	50.0	80.0	120
Acenaphthylene	ANT	Ave	86115 2817969	321005	907898	1252053	1757479	5.00 160	20.0	50.0	80.0	120
3-Nitroaniline	ANT	Lin1	14570 533905	58992	166280	230577	326188	5.00 160	20.0	50.0	80.0	120
Acenaphthene	ANT	Ave	62767 1737249	209575	595729	847863	1176808	5.00 160	20.0	50.0	80.0	120
2,4-Dinitrophenol	ANT	Lin1	7703 792665	59993	210912	314118	478877	10.0 320	40.0	100	160	240
4-Nitrophenol	ANT	Lin1	11966 684116	60427	180043	290481	417857	10.0 320	40.0	100	160	240
Dibenzofuran	ANT	Ave	85368 2518088	333672	872974	1223113	1705577	5.00 160	20.0	50.0	80.0	120
2,4-Dinitrotoluene	ANT	Lin1	17387 641033	78906	211060	306740	424419	5.00 160	20.0	50.0	80.0	120
2,3,4,6-Tetrachlorophenol	ANT	Lin1	14638 653013	67329	187761	296548	402017	5.00 160	20.0	50.0	80.0	120
Diethyl phthalate	ANT	Ave	68478 2097649	255821	600686	1025978	1288851	5.00 160	20.0	50.0	80.0	120
Hexadecane	ANT	Ave	35244 1146187	136946	335910	588929	730893	5.00 160	20.0	50.0	80.0	120
Fluorene	ANT	Ave	64920 2130429	271754	662113	1095148	1331511	5.00 160	20.0	50.0	80.0	120
4-Chlorophenyl phenyl ether	ANT	Ave	36885 1207108	150356	373597	620280	748659	5.00 160	20.0	50.0	80.0	120

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 382697

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 12:41 Calibration End Date: 10/19/2017 14:53 Calibration ID: 31776

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Nitroaniline	ANT	Lin1	13234 527199	60961	155711	257669	325750	5.00 160	20.0	50.0	80.0	120
4,6-Dinitro-2-methylphenol	PHN	Lin1	14668 908223	86393	264228	422055	531627	10.0 320	40.0	100	160	240
Diphenylamine	PHN	Ave	49637 1598410	192959	513981	797377	991832	4.28 137	17.1	42.8	68.4	103
N-Nitrosodiphenylamine	PHN	Ave	49637 1598410	192959	513981	797377	991832	5.00 160	20.0	50.0	80.0	120
1,2-Diphenylhydrazine	PHN	Ave	63913 2051393	251984	660003	1029658	1292111	5.00 160	20.0	50.0	80.0	120
trans-Azobenzene	PHN	Ave	63913 2051381	251984	660003	1029658	1292111	5.00 160	20.0	50.0	80.0	120
4-Bromophenyl phenyl ether	PHN	Ave	22002 755712	90689	243472	372601	454171	5.00 160	20.0	50.0	80.0	120
Hexachlorobenzene	PHN	Ave	22717 749253	92319	236153	378327	459840	5.00 160	20.0	50.0	80.0	120
Atrazine	ANT	Lin1	18438 572878	78008	205326	299595	363749	5.00 160	20.0	50.0	80.0	120
Pentachlorophenol	PHN	Lin1	11434 853731	83659	272454	445390	583402	10.0 320	40.0	100	160	240
n-Octadecane	PHN	Lin1	33280 1125815	137580	366357	560310	696099	5.00 160	20.0	50.0	80.0	120
Phenanthrene	PHN	Ave	103574 2840041	402585	992461	1504781	1847016	5.00 160	20.0	50.0	80.0	120
Anthracene	PHN	Ave	111089 3113535	413080	1015543	1571425	1941488	5.00 160	20.0	50.0	80.0	120
Carbazole	PHN	Ave	94879 2736827	362659	913034	1416303	1919504	5.00 160	20.0	50.0	80.0	120
Di-n-butyl phthalate	PHN	Lin1	102166 3266593	398813	1053731	1639093	2244231	5.00 160	20.0	50.0	80.0	120
Fluoranthene	PHN	Ave	120320 3119193	449672	1138164	1750615	2438803	5.00 160	20.0	50.0	80.0	120
Benzidine	CRY	Ave	46421 1154171	201959	524405	763048	961659	5.00 160	20.0	50.0	80.0	120
Pyrene	CRY	Ave	122576 3516089	458787	1161369	1786441	2475594	5.00 160	20.0	50.0	80.0	120
Butyl benzyl phthalate	CRY	Lin1	41983 1559780	172483	456689	740701	1082060	5.00 160	20.0	50.0	80.0	120
3,3'-Dichlorobenzidine	CRY	Lin1	39079 1369113	138977	408031	658461	990429	5.00 160	20.0	50.0	80.0	120
Benzo(a)anthracene	CRY	Lin1	123085 3549520	389576	1099604	1736525	2581562	5.00 160	20.0	50.0	80.0	120

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

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 382697

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 12:41 Calibration End Date: 10/19/2017 14:53 Calibration ID: 31776

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chrysene	CRY	Ave	121383 3290102	389369	1057663	1641845	2435344	5.00 160	20.0	50.0	80.0	120
Bis(2-ethylhexyl) phthalate	CRY	Lin1	63347 2164222	217375	657705	1025995	1482306	5.00 160	20.0	50.0	80.0	120
Di-n-octyl phthalate	CRY	Lin1	103022 3607988	407404	1112343	1698983	2580190	5.00 160	20.0	50.0	80.0	120
Benzo(b)fluoranthene	PRY	Ave	115960 3741737	468181	1143183	1860690	2700430	5.00 160	20.0	50.0	80.0	120
Benzo(k)fluoranthene	PRY	Ave	144134 4015274	534642	1235567	2021333	3142656	5.00 160	20.0	50.0	80.0	120
Benzo(a)pyrene	PRY	Lin1	113336 3666537	475727	1089691	1891485	2748549	5.00 160	20.0	50.0	80.0	120
Indeno(1,2,3-cd)pyrene	PRY	Lin1	133167 4493118	543939	1304908	2353914	3361974	5.00 160	20.0	50.0	80.0	120
Dibenz(a,h)anthracene	PRY	Lin1	115375 3759361	460915	1101338	1982723	2848588	5.00 160	20.0	50.0	80.0	120
Benzo(g,h,i)perylene	PRY	Lin1	114677 3827891	470082	1102839	2040689	2903530	5.00 160	20.0	50.0	80.0	120
2-Fluorophenol	DCBd 4	Ave	32245 1264885	130900	356091	573936	798069	5.00 160	20.0	50.0	80.0	120
Phenol-d5	DCBd 4	Ave	40150 1351242	171877	430240	730832	926722	5.00 160	20.0	50.0	80.0	120
Nitrobenzene-d5	NPT	Ave	32980 1183704	128545	381219	619923	769874	5.00 160	20.0	50.0	80.0	120
2-Fluorobiphenyl	ANT	Ave	77144 2447416	305116	781865	1077698	1512826	5.00 160	20.0	50.0	80.0	120
2,4,6-Tribromophenol	PHN	Lin1	8201 363292	37217	107596	175405	218064	5.00 160	20.0	50.0	80.0	120
p-Terphenyl-d14	CRY	Lin1	92668 2561137	325156	827189	1265630	1801275	5.00 160	20.0	50.0	80.0	120

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20655.D
Lims ID: IC - List1 5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 19-Oct-2017 12:41:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066532-003
Operator ID: DR Instrument ID: HP5973X
Sublist: chrom-X-8270*sub83

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Oct-2017 12:19:16 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: richardsd Date: 19-Oct-2017 13:33:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.379	5.395	-0.016	94	205803	40.0	40.0	
* 2 Naphthalene-d8	136	6.955	6.950	0.005	98	716337	40.0	40.0	
* 3 Acenaphthene-d10	164	9.023	9.007	0.016	97	375939	40.0	40.0	
* 4 Phenanthrene-d10	188	10.657	10.658	-0.001	99	787275	40.0	40.0	
* 5 Chrysene-d12	240	13.051	13.051	0.000	99	859169	40.0	40.0	
* 6 Perylene-d12	264	14.189	14.194	-0.005	99	820297	40.0	40.0	
$ 7 2-Fluorophenol	112	3.611	3.622	-0.011	93	32245	5.00	4.85	
$ 8 Phenol-d5	99	4.947	4.968	-0.021	88	40150	5.00	5.00	
$ 9 Nitrobenzene-d5	82	6.079	6.090	-0.011	92	32980	5.00	4.52	
$ 10 2-Fluorobiphenyl	172	8.259	8.238	0.021	99	77144	5.00	4.96	
$ 11 2,4,6-Tribromophenol	330	9.931	9.926	0.005	92	8201	5.00	5.39	
$ 12 p-Terphenyl-d14	244	12.164	12.164	0.000	99	92668	5.00	4.08	
15 1,4-Dioxane	88	1.415	1.415	0.000	95	15234	5.00	4.94	
16 N-Nitrosodimethylamine	42	1.677	1.677	0.000	72	14551	5.00	5.05	
17 Pyridine	52	1.720	1.715	0.005	80	46170	10.0	9.56	
27 Benzaldehyde	77	4.808	4.824	-0.016	87	26939	5.00	5.64	
29 Aniline	93	4.957	4.973	-0.016	98	53890	5.00	5.19	
28 Phenol	94	4.968	4.984	-0.016	85	45726	5.00	5.11	
31 Bis(2-chloroethyl)ether	93	5.059	5.080	-0.021	93	35092	5.00	5.38	
32 2-Chlorophenol	128	5.107	5.128	-0.021	97	34437	5.00	5.30	
35 n-Decane	57	5.224	5.241	-0.017	94	34157	5.00	5.02	
36 1,3-Dichlorobenzene	146	5.305	5.321	-0.016	95	40945	5.00	5.33	
37 1,4-Dichlorobenzene	146	5.401	5.417	-0.016	89	42821	5.00	5.39	
38 Benzyl alcohol	108	5.577	5.593	-0.016	94	21015	5.00	4.71	
39 1,2-Dichlorobenzene	146	5.593	5.604	-0.011	94	41744	5.00	4.47	
229 Indene	115	5.705	5.721	-0.016	83	176856	15.0	14.4	
40 2-Methylphenol	108	5.743	5.753	-0.010	92	32187	5.00	4.53	
42 2,2'-oxybis[1-chloropropan	45	5.764	5.769	-0.005	89	40550	5.00	4.46	
45 Acetophenone	105	5.898	5.908	-0.010	91	41912	5.00	4.90	
47 N-Nitrosodi-n-propylamine	70	5.919	5.930	-0.011	83	21679	5.00	4.90	
46 4-Methylphenol	108	5.946	5.956	-0.010	94	28133	5.00	4.67	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.015	6.020	-0.005	91	13884	5.00	4.79	
52 Nitrobenzene	77	6.106	6.111	-0.005	90	33190	5.00	4.62	
56 Isophorone	82	6.410	6.410	0.000	97	54210	5.00	4.97	
58 2-Nitrophenol	139	6.501	6.501	0.000	86	13745	5.00	4.90	
59 2,4-Dimethylphenol	107	6.592	6.592	0.000	96	32022	5.00	4.52	
62 Bis(2-chloroethoxy)methane	93	6.704	6.699	0.005	95	37967	5.00	4.79	
65 2,4-Dichlorophenol	162	6.800	6.800	0.000	94	25729	5.00	4.69	
64 Benzoic acid	105	6.710	6.806	-0.096	13	15853	15.0	17.2	
67 1,2,4-Trichlorobenzene	180	6.897	6.891	0.006	95	35694	5.00	5.24	
69 Naphthalene	128	6.977	6.977	0.000	98	101561	5.00	5.38	
71 4-Chloroaniline	127	7.067	7.062	0.005	97	34685	5.00	4.51	
70 2,6-Dichlorophenol	162	7.073	7.068	0.005	95	25504	5.00	4.58	
73 Hexachlorobutadiene	225	7.158	7.153	0.005	93	23346	5.00	5.01	
78 Caprolactam	113	7.436	7.474	-0.038	86	9225	5.00	5.25	
79 4-Chloro-3-methylphenol	107	7.671	7.666	0.005	92	26076	5.00	5.02	
82 2-Methylnaphthalene	142	7.810	7.799	0.011	97	64783	5.00	4.95	
83 1-Methylnaphthalene	142	7.922	7.912	0.010	99	56835	5.00	4.76	
84 Hexachlorocyclopentadiene	237	8.013	7.997	0.016	80	23039	5.00	5.47	
85 1,2,4,5-Tetrachlorobenzene	216	8.013	7.997	0.016	96	36674	5.00	4.89	
86 2,4,6-Trichlorophenol	196	8.157	8.141	0.016	89	19142	5.00	5.48	
87 2,4,5-Trichlorophenol	196	8.195	8.179	0.016	92	20298	5.00	5.35	
90 1,1'-Biphenyl	154	8.366	8.350	0.016	99	76480	5.00	4.87	
91 2-Chloronaphthalene	162	8.376	8.355	0.021	98	60761	5.00	4.89	
93 2-Nitroaniline	65	8.510	8.489	0.021	89	14297	5.00	5.20	
96 Dimethyl phthalate	163	8.745	8.729	0.016	98	69826	5.00	5.12	
97 1,3-Dinitrobenzene	168	8.761	8.740	0.021	85	11169	5.00	5.29	
99 2,6-Dinitrotoluene	165	8.798	8.788	0.010	93	14182	5.00	5.03	
100 Acenaphthylene	152	8.852	8.836	0.016	99	86115	5.00	4.88	
101 3-Nitroaniline	138	8.985	8.975	0.010	93	14570	5.00	5.23	
102 Acenaphthene	153	9.060	9.044	0.016	96	62767	5.00	5.34	
103 2,4-Dinitrophenol	184	9.114	9.098	0.016	83	7703	10.0	12.0	
104 4-Nitrophenol	109	9.215	9.210	0.005	90	11966	10.0	11.8	
107 Dibenzofuran	168	9.263	9.253	0.010	97	85368	5.00	4.98	
106 2,4-Dinitrotoluene	165	9.263	9.258	0.005	56	17387	5.00	4.85	
110 2,3,4,6-Tetrachlorophenol	232	9.418	9.413	0.005	94	14638	5.00	5.43	
112 Diethyl phthalate	149	9.568	9.568	0.000	99	68478	5.00	5.12	
138 Hexadecane	57	9.616	9.616	0.000	96	35244	5.00	4.80	
115 Fluorene	166	9.658	9.653	0.005	98	64920	5.00	4.68	
116 4-Chlorophenyl phenyl ethe	204	9.675	9.669	0.005	96	36885	5.00	4.72	
118 4-Nitroaniline	138	9.691	9.691	0.000	85	13234	5.00	5.08	
119 4,6-Dinitro-2-methylphenol	198	9.733	9.733	0.000	94	14668	10.0	10.9	
120 N-Nitrosodiphenylamine	169	9.813	9.808	0.005	97	49637	5.00	4.77	
121 Diphenylamine	169	9.813	9.808	0.005	98	49637	4.28	4.07	
123 1,2-Diphenylhydrazine	77	9.851	9.851	0.000	98	63913	5.00	4.75	
122 Azobenzene	77	9.851	9.851	0.000	95	63913	5.00	4.75	
130 4-Bromophenyl phenyl ether	248	10.214	10.209	0.005	94	22002	5.00	4.55	
131 Hexachlorobenzene	284	10.267	10.268	-0.001	95	22717	5.00	4.67	
133 Atrazine	200	10.412	10.412	0.000	94	18438	5.00	4.36	
134 Pentachlorophenol	266	10.487	10.481	0.006	93	11434	10.0	10.5	
113 n-Octadecane	57	10.620	10.620	0.000	93	33280	5.00	4.89	
141 Phenanthrene	178	10.684	10.684	0.000	98	103574	5.00	5.14	
142 Anthracene	178	10.732	10.732	0.000	99	111089	5.00	5.24	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
143 Carbazole	167	10.903	10.903	0.000	99	94879	5.00	4.98	
145 Di-n-butyl phthalate	149	11.277	11.277	0.000	99	102166	5.00	5.11	
152 Fluoranthene	202	11.811	11.811	0.000	98	120320	5.00	5.11	
154 Benzidine	184	11.945	11.945	0.000	99	46421	5.00	4.73	
155 Pyrene	202	12.009	12.009	0.000	98	122576	5.00	5.06	
162 Butyl benzyl phthalate	149	12.597	12.597	0.000	98	41983	5.00	4.55	
166 3,3'-Dichlorobenzidine	252	13.029	13.030	-0.001	85	39079	5.00	4.92	
167 Benzo[a]anthracene	228	13.045	13.046	-0.001	95	123085	5.00	4.75	
169 Chrysene	228	13.072	13.078	-0.006	98	121383	5.00	5.40	
172 Bis(2-ethylhexyl) phthalat	149	13.083	13.083	0.000	96	63347	5.00	4.86	
168 Di-n-octyl phthalate	149	13.601	13.601	0.000	99	103022	5.00	4.47	
174 Benzo[b]fluoranthene	252	13.900	13.906	-0.006	99	115960	5.00	4.92	
175 Benzo[k]fluoranthene	252	13.922	13.927	-0.005	97	144134	5.00	5.41	M
177 Benzo[a]pyrene	252	14.146	14.151	-0.005	99	113336	5.00	4.53	
180 Indeno[1,2,3-cd]pyrene	276	15.022	15.033	-0.011	92	133167	5.00	4.78	
181 Dibenz(a,h)anthracene	278	15.027	15.038	-0.011	86	115375	5.00	4.76	
182 Benzo[g,h,i]perylene	276	15.252	15.268	-0.016	99	114677	5.00	4.76	
S 238 3-Methylphenol	1				0			4.67	
S 237 Total Cresols	1				0			9.20	
S 236 3 & 4 Methylphenol	108				0			4.67	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00520	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

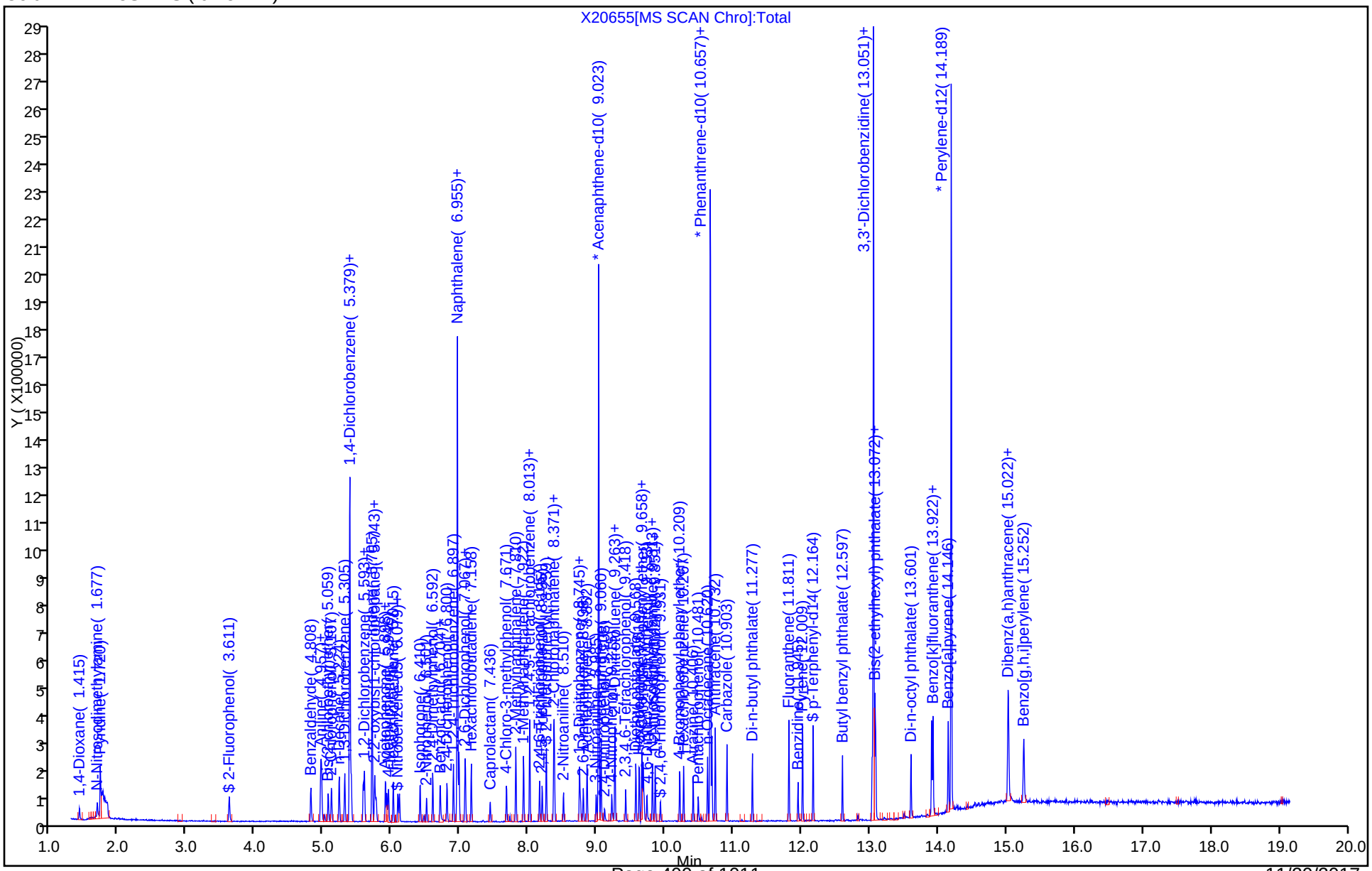
Report Date: 20-Oct-2017 12:19:18 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20655.D

Injection Date:	19-Oct-2017 12:41:30	Instrument ID:	HP5973X	Operator ID:	DR
Lims ID:	IC - List1 5			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

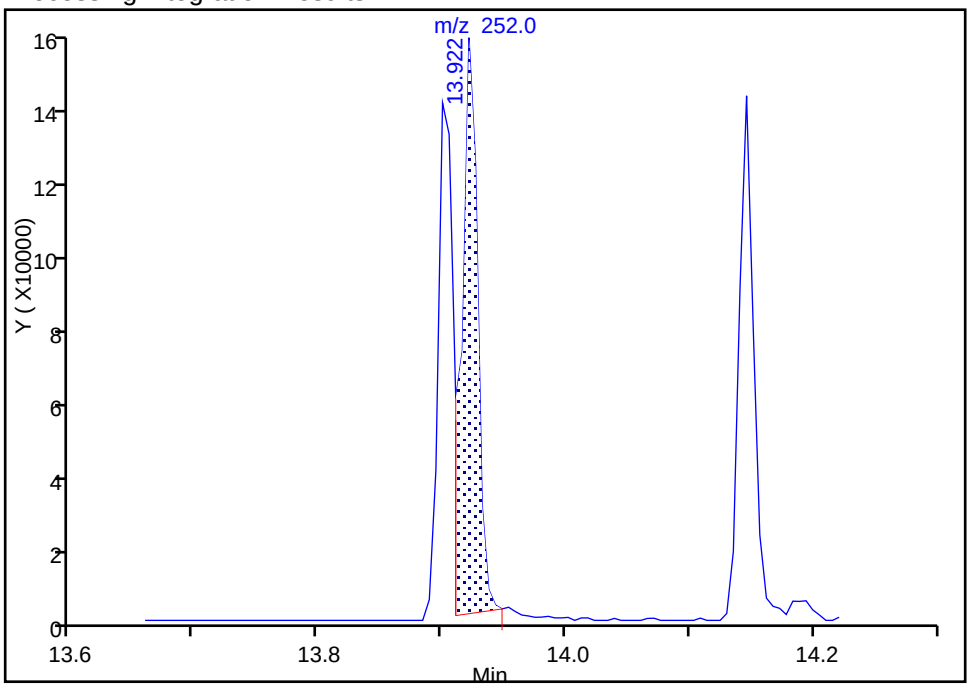
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Injection Date: 19-Oct-2017 12:41:30 Instrument ID: HP5973X
Lims ID: IC - List1 5
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

175 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

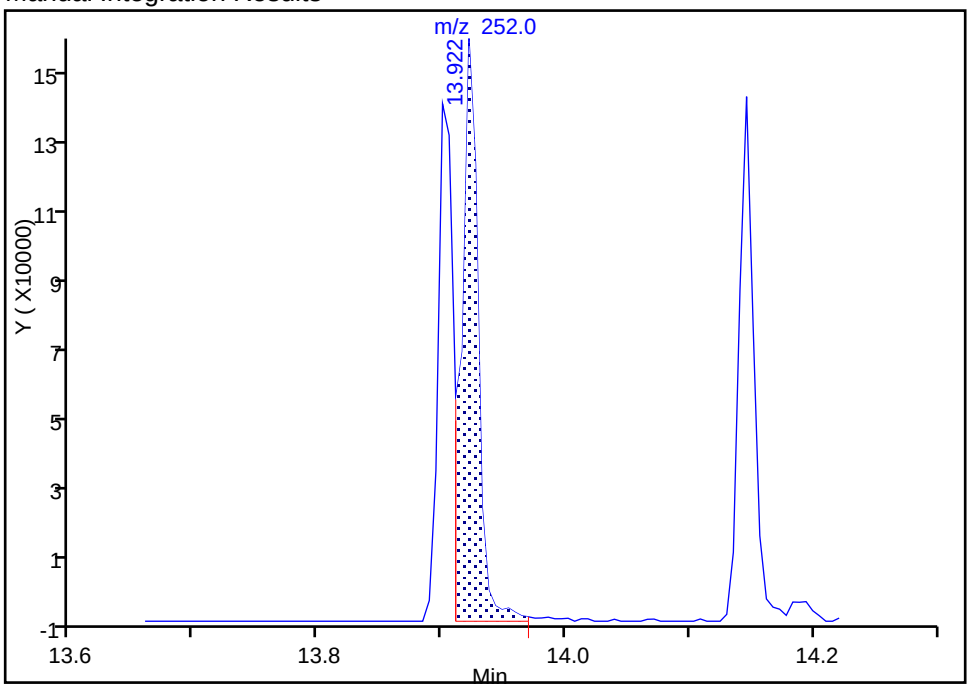
Processing Integration Results

RT: 13.92
Area: 136112
Amount: 5.295001
Amount Units: ng/uL



Manual Integration Results

RT: 13.92
Area: 144134
Amount: 5.406248
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 16:03:48
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20656.D
Lims ID: IC - List1 20
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Oct-2017 13:08:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066532-004
Operator ID: DR Instrument ID: HP5973X
Sublist: chrom-X-8270*sub83

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Oct-2017 12:19:23 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: richardsd Date: 19-Oct-2017 14:00:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.390	5.395	-0.005	93	210286	40.0	40.0	
* 2 Naphthalene-d8	136	6.945	6.950	-0.005	98	671230	40.0	40.0	
* 3 Acenaphthene-d10	164	9.012	9.007	0.005	98	357860	40.0	40.0	
* 4 Phenanthrene-d10	188	10.652	10.658	-0.006	99	735545	40.0	40.0	
* 5 Chrysene-d12	240	13.051	13.051	0.000	99	696408	40.0	40.0	M
* 6 Perylene-d12	264	14.194	14.194	0.000	99	782440	40.0	40.0	
$ 7 2-Fluorophenol	112	3.638	3.622	0.016	93	130900	20.0	19.3	
$ 8 Phenol-d5	99	4.963	4.968	-0.005	90	171877	20.0	20.9	
$ 9 Nitrobenzene-d5	82	6.085	6.090	-0.005	92	128545	20.0	18.8	
$ 10 2-Fluorobiphenyl	172	8.238	8.238	0.000	99	305116	20.0	20.6	
$ 11 2,4,6-Tribromophenol	330	9.920	9.926	-0.006	96	37217	20.0	18.7	
$ 12 p-Terphenyl-d14	244	12.164	12.164	0.000	99	325156	20.0	23.1	
15 1,4-Dioxane	88	1.426	1.415	0.011	89	62569	20.0	19.9	
16 N-Nitrosodimethylamine	42	1.688	1.677	0.011	72	59528	20.0	20.2	
17 Pyridine	52	1.731	1.715	0.016	81	183477	40.0	40.6	
27 Benzaldehyde	77	4.819	4.824	-0.006	86	110906	20.0	22.7	
29 Aniline	93	4.968	4.973	-0.005	97	213203	20.0	20.1	
28 Phenol	94	4.979	4.984	-0.005	88	186911	20.0	20.4	
31 Bis(2-chloroethyl)ether	93	5.075	5.080	-0.005	92	130637	20.0	19.6	
32 2-Chlorophenol	128	5.123	5.128	-0.005	99	139834	20.0	21.1	
35 n-Decane	57	5.235	5.241	-0.006	94	141053	20.0	20.3	
36 1,3-Dichlorobenzene	146	5.315	5.321	-0.006	95	155929	20.0	19.9	
37 1,4-Dichlorobenzene	146	5.406	5.417	-0.011	96	168473	20.0	20.8	
38 Benzyl alcohol	108	5.582	5.593	-0.011	94	82709	20.0	19.3	
39 1,2-Dichlorobenzene	146	5.598	5.604	-0.006	93	149393	20.0	20.2	
229 Indene	115	5.711	5.721	-0.010	85	729645	60.0	63.6	
40 2-Methylphenol	108	5.748	5.753	-0.005	96	125894	20.0	21.0	
42 2,2'-oxybis[1-chloropropan	45	5.769	5.769	0.000	92	149423	20.0	21.1	
45 Acetophenone	105	5.903	5.908	-0.005	92	185180	20.0	21.2	
47 N-Nitrosodi-n-propylamine	70	5.924	5.930	-0.006	81	94977	20.0	21.0	
46 4-Methylphenol	108	5.946	5.956	-0.010	93	131571	20.0	21.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.015	6.020	-0.005	93	61719	20.0	20.8	
52 Nitrobenzene	77	6.106	6.111	-0.005	91	129428	20.0	19.2	
56 Isophorone	82	6.405	6.410	-0.005	96	224631	20.0	19.9	
58 2-Nitrophenol	139	6.501	6.501	0.000	84	66027	20.0	19.8	
59 2,4-Dimethylphenol	107	6.587	6.592	-0.005	96	139719	20.0	20.9	
62 Bis(2-chloroethoxy)methane	93	6.694	6.699	-0.005	94	153097	20.0	20.6	
65 2,4-Dichlorophenol	162	6.795	6.800	-0.005	92	115627	20.0	21.1	
64 Benzoic acid	105	6.742	6.806	-0.064	81	148760	60.0	50.4	M
67 1,2,4-Trichlorobenzene	180	6.886	6.891	-0.005	95	126922	20.0	19.9	
69 Naphthalene	128	6.971	6.977	-0.006	99	373223	20.0	21.1	
71 4-Chloroaniline	127	7.057	7.062	-0.005	97	151647	20.0	21.5	
70 2,6-Dichlorophenol	162	7.062	7.068	-0.006	95	114381	20.0	21.6	
73 Hexachlorobutadiene	225	7.148	7.153	-0.005	96	82966	20.0	19.0	
78 Caprolactam	113	7.436	7.474	-0.038	88	35414	20.0	19.9	
79 4-Chloro-3-methylphenol	107	7.655	7.666	-0.011	94	106154	20.0	20.0	
82 2-Methylnaphthalene	142	7.794	7.799	-0.005	96	251839	20.0	20.5	
83 1-Methylnaphthalene	142	7.906	7.912	-0.006	99	236853	20.0	21.2	
85 1,2,4,5-Tetrachlorobenzene	216	7.997	7.997	0.000	96	133779	20.0	18.7	
84 Hexachlorocyclopentadiene	237	7.997	7.997	0.000	85	101085	20.0	18.9	
86 2,4,6-Trichlorophenol	196	8.141	8.141	0.000	91	77445	20.0	18.3	
87 2,4,5-Trichlorophenol	196	8.179	8.179	0.000	93	83851	20.0	18.7	
90 1,1'-Biphenyl	154	8.350	8.350	0.000	99	297819	20.0	19.9	
91 2-Chloronaphthalene	162	8.360	8.355	0.005	98	233660	20.0	19.7	
93 2-Nitroaniline	65	8.494	8.489	0.005	91	62513	20.0	19.8	
96 Dimethyl phthalate	163	8.729	8.729	0.000	99	266077	20.0	20.5	
97 1,3-Dinitrobenzene	168	8.745	8.740	0.005	91	41175	20.0	18.7	
99 2,6-Dinitrotoluene	165	8.788	8.788	0.000	95	61691	20.0	20.1	
100 Acenaphthylene	152	8.841	8.836	0.005	99	321005	20.0	19.1	
101 3-Nitroaniline	138	8.975	8.975	0.000	96	58992	20.0	19.3	
102 Acenaphthene	153	9.050	9.044	0.006	98	209575	20.0	18.7	
103 2,4-Dinitrophenol	184	9.098	9.098	0.000	86	59993	40.0	34.2	
104 4-Nitrophenol	109	9.204	9.210	-0.006	91	60427	40.0	35.6	
107 Dibenzofuran	168	9.253	9.253	0.000	95	333672	20.0	20.5	
106 2,4-Dinitrotoluene	165	9.253	9.258	-0.005	60	78906	20.0	20.2	
110 2,3,4,6-Tetrachlorophenol	232	9.407	9.413	-0.006	94	67329	20.0	18.8	
112 Diethyl phthalate	149	9.562	9.568	-0.006	100	255821	20.0	20.1	
138 Hexadecane	57	9.610	9.616	-0.006	97	136946	20.0	19.6	
115 Fluorene	166	9.648	9.653	-0.005	99	271754	20.0	20.6	
116 4-Chlorophenyl phenyl ethe	204	9.664	9.669	-0.005	96	150356	20.0	20.2	
118 4-Nitroaniline	138	9.680	9.691	-0.011	85	60961	20.0	19.9	
119 4,6-Dinitro-2-methylphenol	198	9.723	9.733	-0.010	94	86393	40.0	37.2	
121 Diphenylamine	169	9.803	9.808	-0.005	98	192959	17.1	17.0	
120 N-Nitrosodiphenylamine	169	9.803	9.808	-0.005	97	192959	20.0	19.8	
122 Azobenzene	77	9.846	9.851	-0.005	94	251984	20.0	20.0	
123 1,2-Diphenylhydrazine	77	9.846	9.851	-0.005	98	251984	20.0	20.0	
130 4-Bromophenyl phenyl ether	248	10.203	10.209	-0.006	93	90689	20.0	20.1	
131 Hexachlorobenzene	284	10.262	10.268	-0.006	95	92319	20.0	20.3	
133 Atrazine	200	10.406	10.412	-0.006	92	78008	20.0	20.9	
134 Pentachlorophenol	266	10.476	10.481	-0.005	95	83659	40.0	36.5	
113 n-Octadecane	57	10.615	10.620	-0.005	90	137580	20.0	20.2	
141 Phenanthrene	178	10.679	10.684	-0.005	99	402585	20.0	21.4	
142 Anthracene	178	10.727	10.732	-0.005	99	413080	20.0	20.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
143 Carbazole	167	10.898	10.903	-0.005	99	362659	20.0	20.4	
145 Di-n-butyl phthalate	149	11.272	11.277	-0.005	99	398813	20.0	19.6	
152 Fluoranthene	202	11.811	11.811	0.000	98	449672	20.0	20.4	
154 Benzidine	184	11.940	11.945	-0.005	100	201959	20.0	25.4	
155 Pyrene	202	12.009	12.009	0.000	98	458787	20.0	23.4	
162 Butyl benzyl phthalate	149	12.597	12.597	0.000	98	172483	20.0	22.0	
166 3,3'-Dichlorobenzidine	252	13.030	13.030	0.000	85	138977	20.0	20.1	
167 Benzo[a]anthracene	228	13.046	13.046	0.000	95	389576	20.0	20.6	
169 Chrysene	228	13.072	13.078	-0.006	99	389369	20.0	21.4	
172 Bis(2-ethylhexyl) phthalat	149	13.083	13.083	0.000	96	217375	20.0	20.0	
168 Di-n-octyl phthalate	149	13.601	13.601	0.000	100	407404	20.0	21.9	
174 Benzo[b]fluoranthene	252	13.906	13.906	0.000	98	468181	20.0	20.8	
175 Benzo[k]fluoranthene	252	13.927	13.927	0.000	98	534642	20.0	21.0	
177 Benzo[a]pyrene	252	14.151	14.151	0.000	99	475727	20.0	21.3	
180 Indeno[1,2,3-cd]pyrene	276	15.038	15.033	0.005	92	543939	20.0	20.3	
181 Dibenz(a,h)anthracene	278	15.044	15.038	0.006	87	460915	20.0	20.3	
182 Benzo[g,h,i]perylene	276	15.268	15.268	0.000	99	470082	20.0	20.4	
S 236 3 & 4 Methylphenol	108				0			21.4	
S 238 3-Methylphenol	1				0			21.4	
S 237 Total Cresols	1				0			42.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00521	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

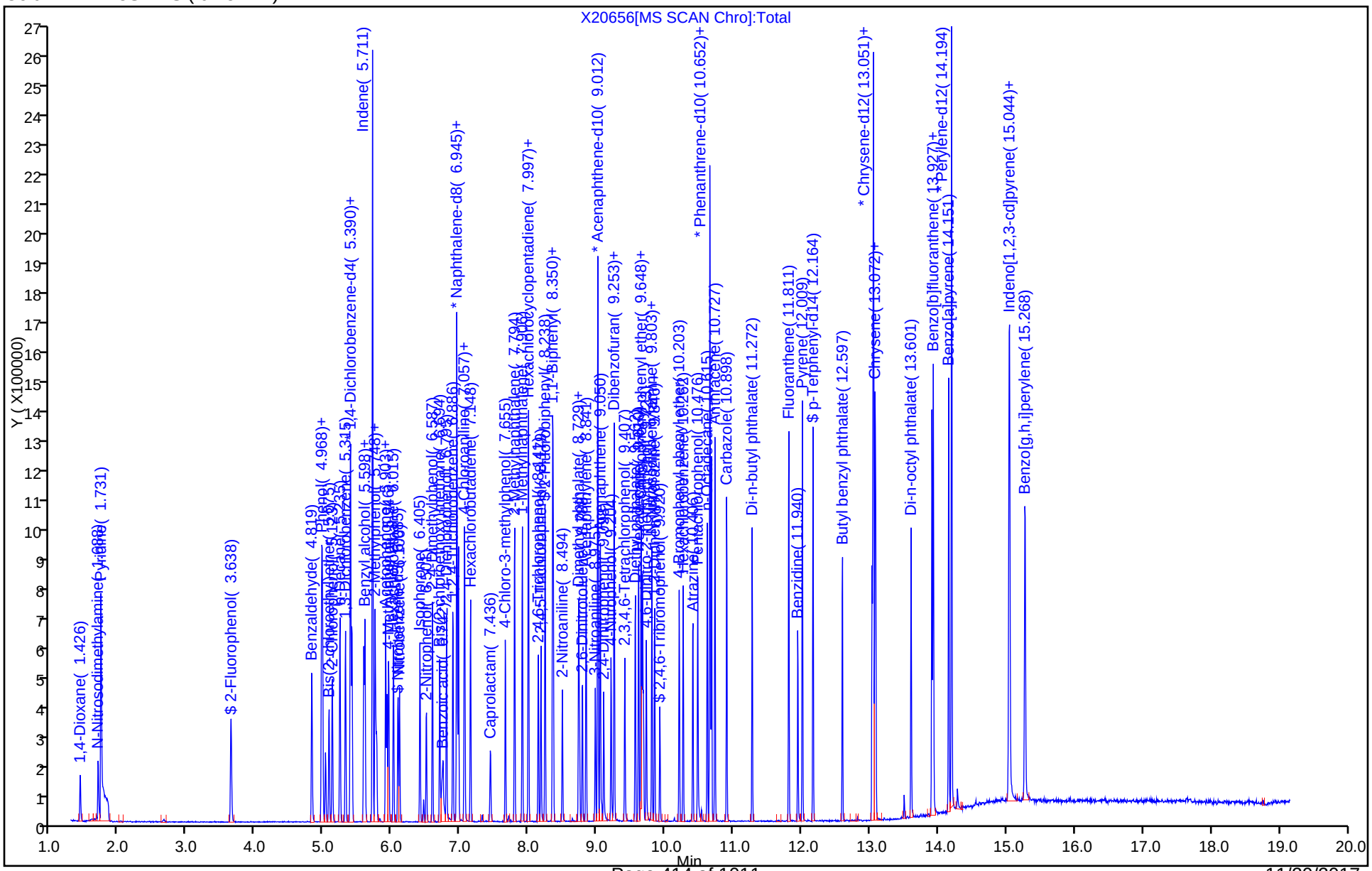
Report Date: 20-Oct-2017 12:19:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20656.D

Injection Date:	19-Oct-2017 13:08:30	Instrument ID:	HP5973X	Operator ID:	DR
Lims ID:	IC - List1 20			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

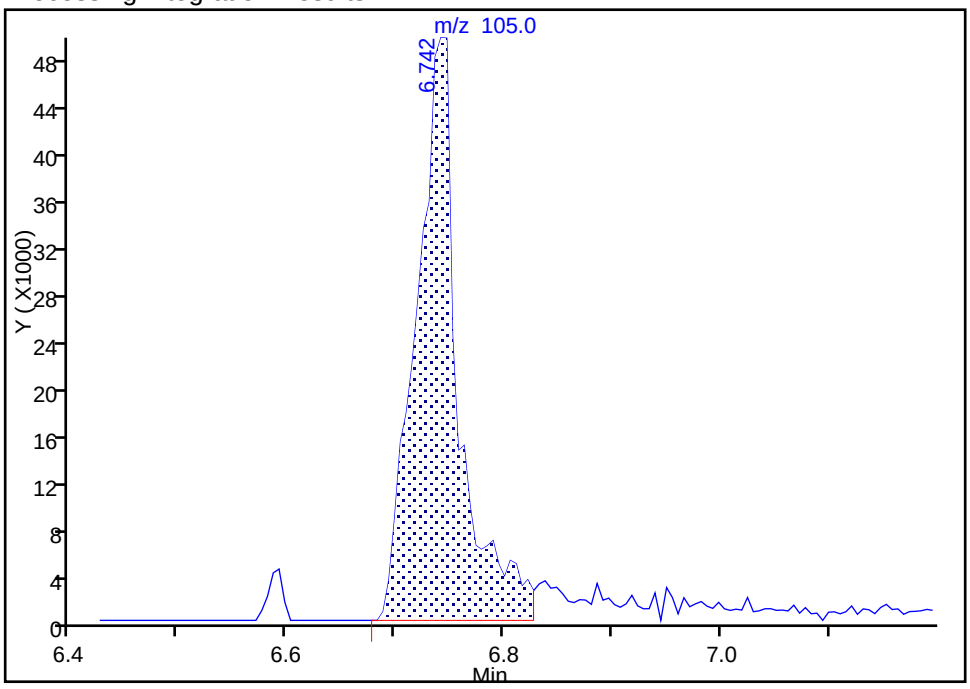
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Injection Date:	19-Oct-2017 13:08:30	Instrument ID:	HP5973X		
Lims ID:	IC - List1 20				
Client ID:					
Operator ID:	DR	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

64 Benzoic acid, CAS: 65-85-0

Signal: 1

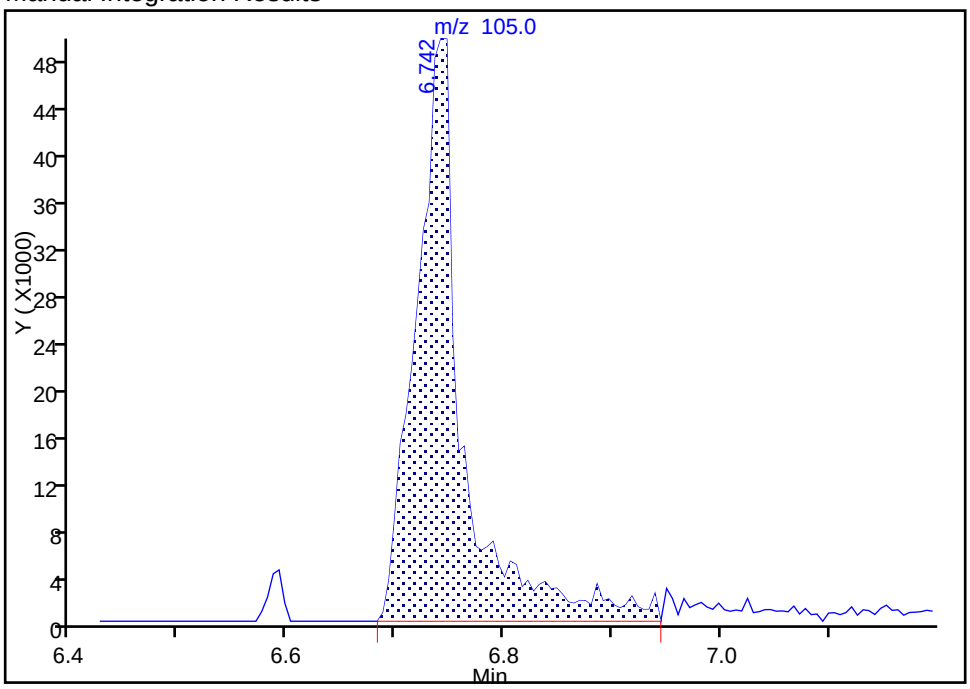
Processing Integration Results

RT: 6.74
Area: 135814
Amount: 50.987804
Amount Units: ng/uL



Manual Integration Results

RT: 6.74
Area: 148760
Amount: 50.410229
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 15:33:37

Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

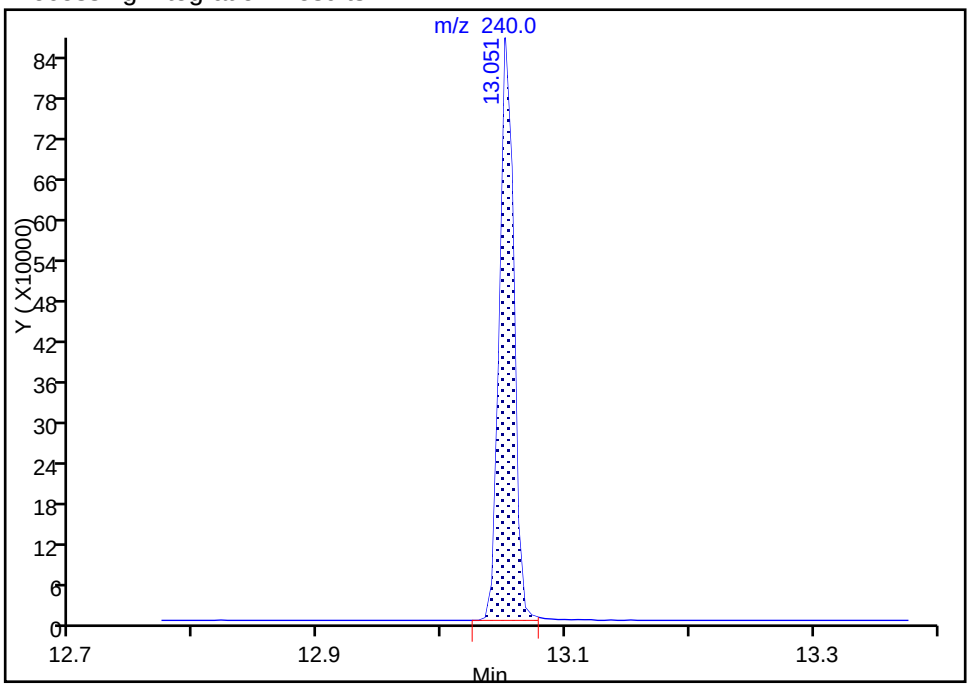
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Injection Date: 19-Oct-2017 13:08:30 Instrument ID: HP5973X
Lims ID: IC - List1 20
Client ID:
Operator ID: DR ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

* 5 Chrysene-d12, CAS: 1719-03-5

Signal: 1

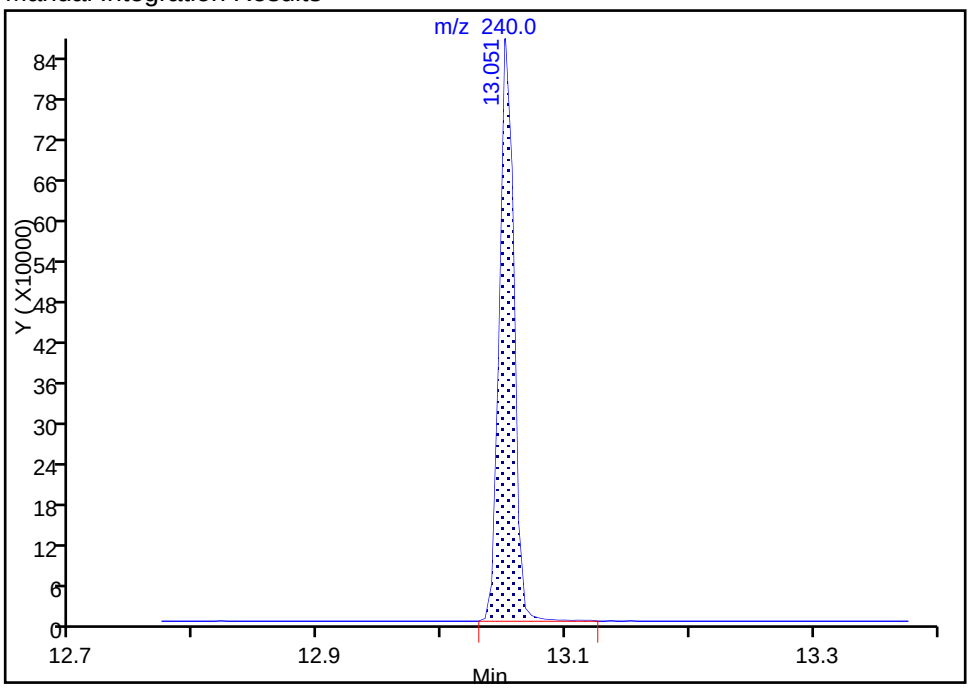
Processing Integration Results

RT: 13.05
Area: 692960
Amount: 40.000000
Amount Units: ng/uL



Manual Integration Results

RT: 13.05
Area: 696408
Amount: 40.000000
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 16:10:54
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20657.D
Lims ID: ICIS - List1 50
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 19-Oct-2017 13:34:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066532-005
Operator ID: DR Instrument ID: HP5973X
Sublist: chrom-X-8270*sub83

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Oct-2017 12:19:32 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: pagem Date: 20-Oct-2017 11:52:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.395	5.395	0.000	93	215716	40.0	40.0	
* 2 Naphthalene-d8	136	6.950	6.950	0.000	98	689170	40.0	40.0	
* 3 Acenaphthene-d10	164	9.007	9.007	0.000	96	379208	40.0	40.0	
* 4 Phenanthrene-d10	188	10.658	10.658	0.000	98	765996	40.0	40.0	
* 5 Chrysene-d12	240	13.051	13.051	0.000	99	807575	40.0	40.0	
* 6 Perylene-d12	264	14.194	14.194	0.000	99	755051	40.0	40.0	
$ 7 2-Fluorophenol	112	3.622	3.622	0.000	92	356091	50.0	51.1	
$ 8 Phenol-d5	99	4.968	4.968	0.000	90	430240	50.0	51.1	
$ 9 Nitrobenzene-d5	82	6.090	6.090	0.000	92	381219	50.0	54.3	
$ 10 2-Fluorobiphenyl	172	8.238	8.238	0.000	100	781865	50.0	49.8	
$ 11 2,4,6-Tribromophenol	330	9.926	9.926	0.000	95	107596	50.0	48.5	
$ 12 p-Terphenyl-d14	244	12.164	12.164	0.000	99	827189	50.0	52.6	
15 1,4-Dioxane	88	1.415	1.415	0.000	94	159543	50.0	49.3	
16 N-Nitrosodimethylamine	42	1.677	1.677	0.000	72	154652	50.0	51.2	
17 Pyridine	52	1.715	1.715	0.000	82	474613	100.0	104.0	
27 Benzaldehyde	77	4.824	4.824	0.000	85	274661	50.0	54.9	
29 Aniline	93	4.973	4.973	0.000	96	569238	50.0	52.3	
28 Phenol	94	4.984	4.984	0.000	89	494647	50.0	52.7	
31 Bis(2-chloroethyl)ether	93	5.080	5.080	0.000	92	350817	50.0	51.3	
32 2-Chlorophenol	128	5.128	5.128	0.000	99	329344	50.0	48.4	
35 n-Decane	57	5.241	5.241	0.000	95	365004	50.0	51.2	
36 1,3-Dichlorobenzene	146	5.321	5.321	0.000	96	405143	50.0	50.3	
37 1,4-Dichlorobenzene	146	5.417	5.417	0.000	95	413019	50.0	49.6	
38 Benzyl alcohol	108	5.593	5.593	0.000	92	241211	50.0	55.5	
39 1,2-Dichlorobenzene	146	5.604	5.604	0.000	95	398112	50.0	55.5	
229 Indene	115	5.721	5.721	0.000	84	1721044	150.0	144.1	
40 2-Methylphenol	108	5.753	5.753	0.000	96	309579	50.0	52.2	
42 2,2'-oxybis[1-chloropropan	45	5.769	5.769	0.000	92	365340	50.0	53.0	
45 Acetophenone	105	5.908	5.908	0.000	94	471058	50.0	52.6	
47 N-Nitrosodi-n-propylamine	70	5.930	5.930	0.000	84	244144	50.0	52.7	
46 4-Methylphenol	108	5.956	5.956	0.000	93	333107	50.0	52.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.020	6.020	0.000	90	154929	50.0	51.0	
52 Nitrobenzene	77	6.111	6.111	0.000	91	360441	50.0	52.1	
56 Isophorone	82	6.410	6.410	0.000	97	634925	50.0	53.7	
58 2-Nitrophenol	139	6.501	6.501	0.000	85	193526	50.0	54.1	
59 2,4-Dimethylphenol	107	6.592	6.592	0.000	96	372263	50.0	54.1	
62 Bis(2-chloroethoxy)methane	93	6.699	6.699	0.000	95	411710	50.0	54.0	
65 2,4-Dichlorophenol	162	6.800	6.800	0.000	93	313126	50.0	55.0	
64 Benzoic acid	105	6.806	6.806	0.000	80	557345	150.0	148.0	M
67 1,2,4-Trichlorobenzene	180	6.891	6.891	0.000	96	336686	50.0	51.4	
69 Naphthalene	128	6.977	6.977	0.000	99	953431	50.0	52.5	
71 4-Chloroaniline	127	7.062	7.062	0.000	96	363494	50.0	50.5	
70 2,6-Dichlorophenol	162	7.068	7.068	0.000	97	269237	50.0	49.3	
73 Hexachlorobutadiene	225	7.153	7.153	0.000	95	235194	50.0	52.4	
78 Caprolactam	113	7.474	7.474	0.000	91	90968	50.0	49.1	
79 4-Chloro-3-methylphenol	107	7.666	7.666	0.000	94	286927	50.0	51.8	
82 2-Methylnaphthalene	142	7.799	7.799	0.000	96	662533	50.0	52.6	
83 1-Methylnaphthalene	142	7.912	7.912	0.000	100	567735	50.0	49.4	
84 Hexachlorocyclopentadiene	237	7.997	7.997	0.000	87	261674	50.0	43.8	
85 1,2,4,5-Tetrachlorobenzene	216	7.997	7.997	0.000	96	354131	50.0	46.8	
86 2,4,6-Trichlorophenol	196	8.141	8.141	0.000	92	222779	50.0	47.1	
87 2,4,5-Trichlorophenol	196	8.179	8.179	0.000	95	232937	50.0	46.8	
90 1,1'-Biphenyl	154	8.350	8.350	0.000	99	807546	50.0	50.9	
91 2-Chloronaphthalene	162	8.355	8.355	0.000	99	630413	50.0	50.3	
93 2-Nitroaniline	65	8.489	8.489	0.000	92	168148	50.0	48.6	
96 Dimethyl phthalate	163	8.729	8.729	0.000	99	694819	50.0	50.5	
97 1,3-Dinitrobenzene	168	8.740	8.740	0.000	89	124305	50.0	53.7	
99 2,6-Dinitrotoluene	165	8.788	8.788	0.000	97	165655	50.0	49.7	
100 Acenaphthylene	152	8.836	8.836	0.000	100	907898	50.0	51.0	
101 3-Nitroaniline	138	8.975	8.975	0.000	94	166280	50.0	49.8	
102 Acenaphthene	153	9.044	9.044	0.000	99	595729	50.0	50.2	
103 2,4-Dinitrophenol	184	9.098	9.098	0.000	84	210912	100.0	92.8	
104 4-Nitrophenol	109	9.210	9.210	0.000	91	180043	100.0	88.9	
107 Dibenzofuran	168	9.253	9.253	0.000	97	872974	50.0	50.5	
106 2,4-Dinitrotoluene	165	9.258	9.258	0.000	94	211060	50.0	49.9	
110 2,3,4,6-Tetrachlorophenol	232	9.413	9.413	0.000	94	187761	50.0	46.5	
112 Diethyl phthalate	149	9.568	9.568	0.000	100	600686	50.0	44.5	
138 Hexadecane	57	9.616	9.616	0.000	97	335910	50.0	45.3	
115 Fluorene	166	9.653	9.653	0.000	98	662113	50.0	47.3	
116 4-Chlorophenyl phenyl ethe	204	9.669	9.669	0.000	97	373597	50.0	47.4	
118 4-Nitroaniline	138	9.691	9.691	0.000	87	155711	50.0	46.3	
119 4,6-Dinitro-2-methylphenol	198	9.733	9.733	0.000	96	264228	100.0	98.0	
120 N-Nitrosodiphenylamine	169	9.808	9.808	0.000	97	513981	50.0	50.7	
121 Diphenylamine	169	9.808	9.808	0.000	98	513981	42.8	43.4	
123 1,2-Diphenylhydrazine	77	9.851	9.851	0.000	98	660003	50.0	50.4	
122 Azobenzene	77	9.851	9.851	0.000	95	660003	50.0	50.4	
130 4-Bromophenyl phenyl ether	248	10.209	10.209	0.000	92	243472	50.0	51.7	
131 Hexachlorobenzene	284	10.268	10.268	0.000	96	236153	50.0	49.9	
133 Atrazine	200	10.412	10.412	0.000	93	205326	50.0	52.7	
134 Pentachlorophenol	266	10.481	10.481	0.000	95	272454	100.0	99.7	
113 n-Octadecane	57	10.620	10.620	0.000	90	366357	50.0	50.9	
141 Phenanthrene	178	10.684	10.684	0.000	99	992461	50.0	50.6	
142 Anthracene	178	10.732	10.732	0.000	99	1015543	50.0	49.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
143 Carbazole	167	10.903	10.903	0.000	99	913034	50.0	49.2	
145 Di-n-butyl phthalate	149	11.277	11.277	0.000	99	1053731	50.0	49.0	
152 Fluoranthene	202	11.811	11.811	0.000	99	1138164	50.0	49.7	
154 Benzidine	184	11.945	11.945	0.000	100	524405	50.0	56.9	
155 Pyrene	202	12.009	12.009	0.000	99	1161369	50.0	51.0	
162 Butyl benzyl phthalate	149	12.597	12.597	0.000	98	456689	50.0	49.8	
166 3,3'-Dichlorobenzidine	252	13.030	13.030	0.000	86	408031	50.0	50.2	
167 Benzo[a]anthracene	228	13.046	13.046	0.000	96	1099604	50.0	51.0	
169 Chrysene	228	13.078	13.078	0.000	98	1057663	50.0	50.0	
172 Bis(2-ethylhexyl) phthalat	149	13.083	13.083	0.000	97	657705	50.0	51.9	
168 Di-n-octyl phthalate	149	13.601	13.601	0.000	100	1112343	50.0	51.6	
174 Benzo[b]fluoranthene	252	13.906	13.906	0.000	99	1143183	50.0	52.7	
175 Benzo[k]fluoranthene	252	13.927	13.927	0.000	98	1235567	50.0	50.3	M
177 Benzo[a]pyrene	252	14.151	14.151	0.000	99	1089691	50.0	51.2	
180 Indeno[1,2,3-cd]pyrene	276	15.033	15.033	0.000	92	1304908	50.0	50.3	
181 Dibenz(a,h)anthracene	278	15.038	15.038	0.000	90	1101338	50.0	50.4	
182 Benzo[g,h,i]perylene	276	15.268	15.268	0.000	100	1102839	50.0	49.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00522	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

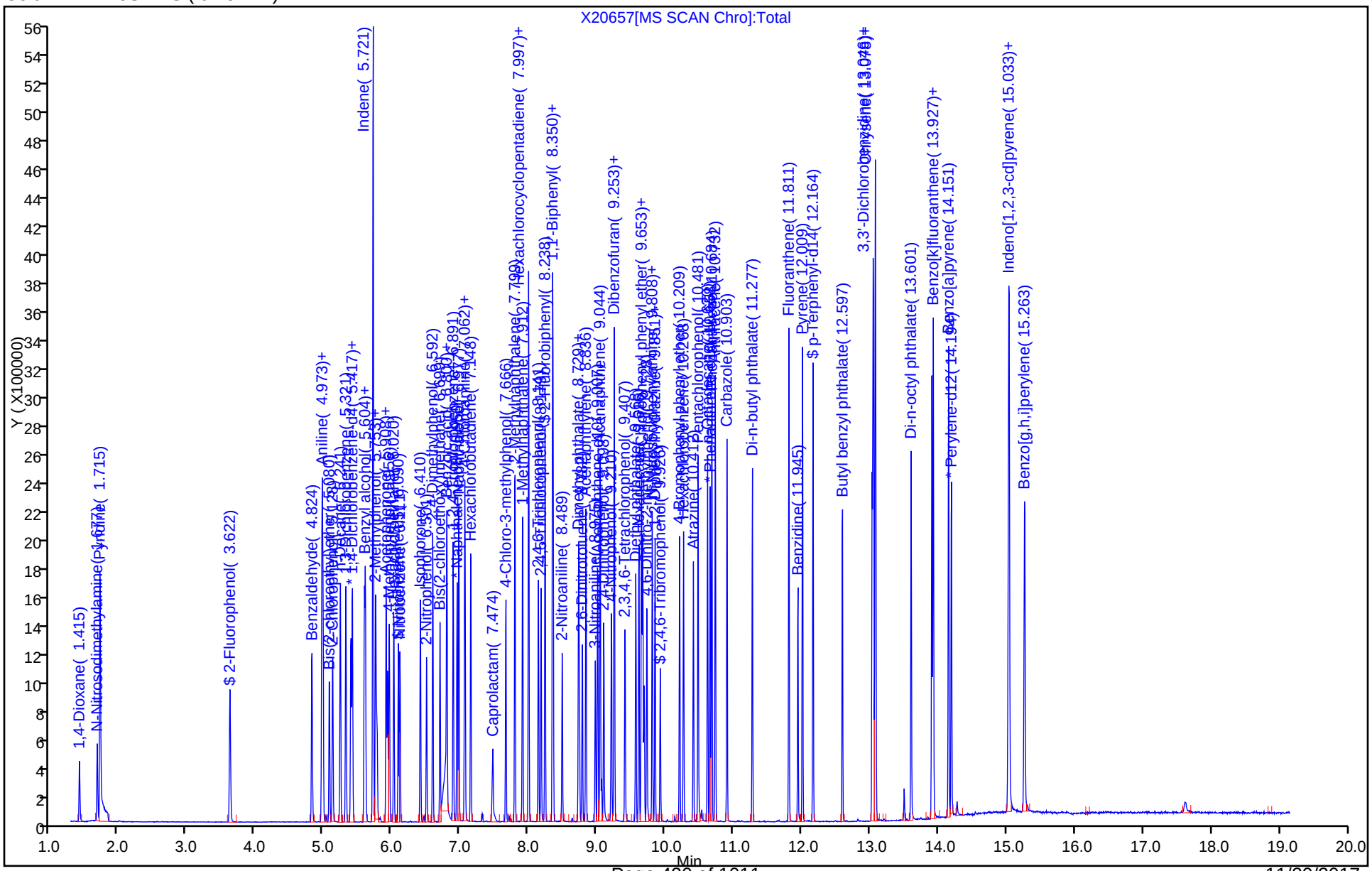
Report Date: 20-Oct-2017 12:19:34 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20657.D

Injection Date:	19-Oct-2017 13:34:30	Instrument ID:	HP5973X	Operator ID:	DR
Lims ID:	ICIS - List1 50			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

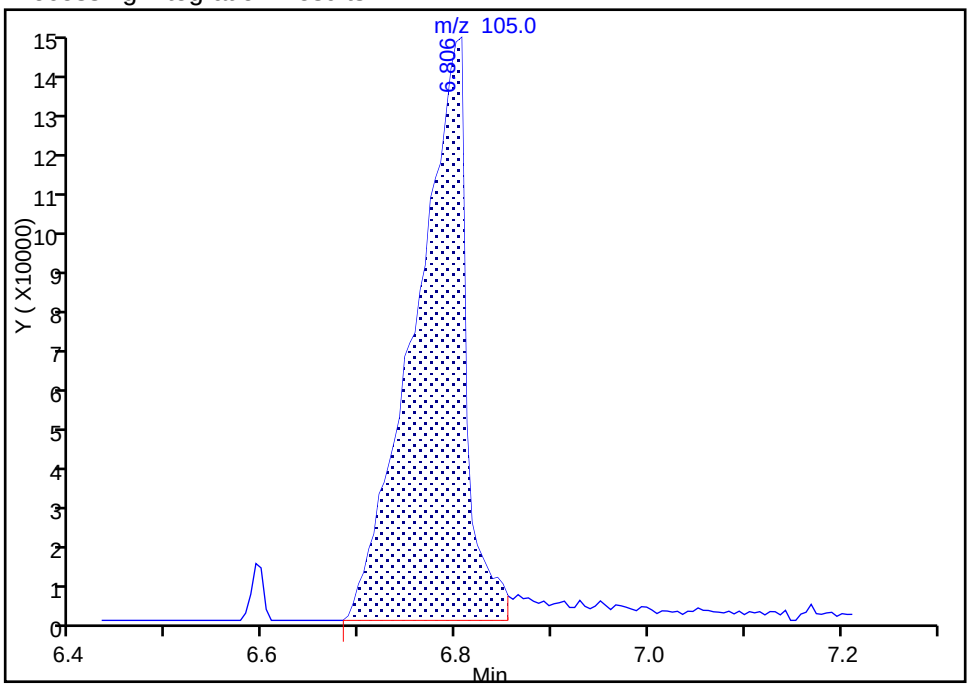
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Injection Date:	19-Oct-2017 13:34:30	Instrument ID:	HP5973X		
Lims ID:	ICIS - List1 50				
Client ID:					
Operator ID:	DR	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

64 Benzoic acid, CAS: 65-85-0

Signal: 1

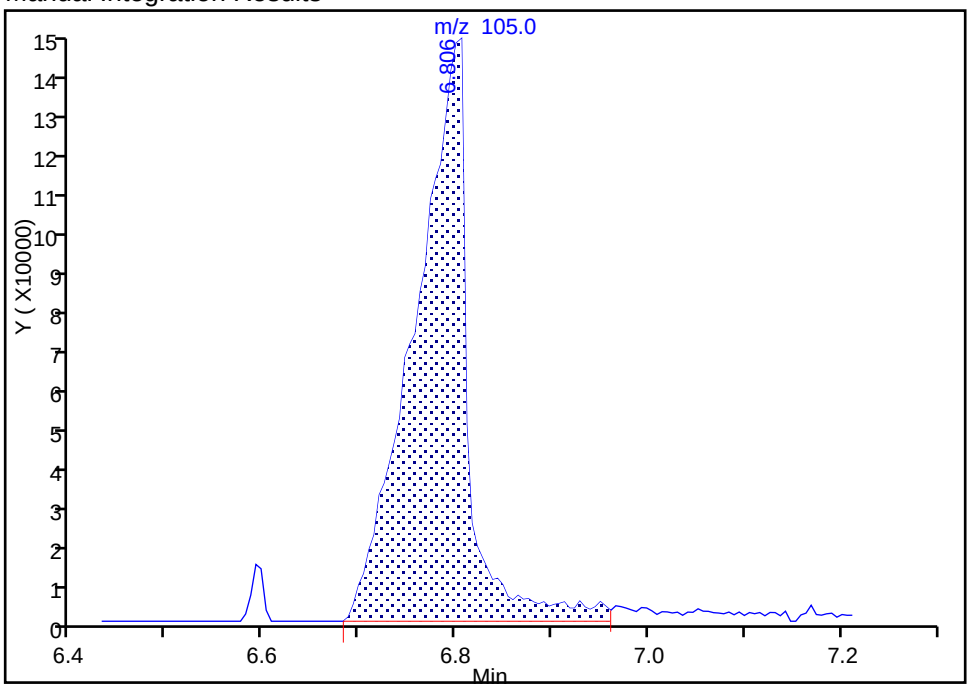
Processing Integration Results

RT: 6.81
Area: 530243
Amount: 197.1399
Amount Units: ng/uL



Manual Integration Results

RT: 6.81
Area: 557345
Amount: 148.0302
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 15:33:11

Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

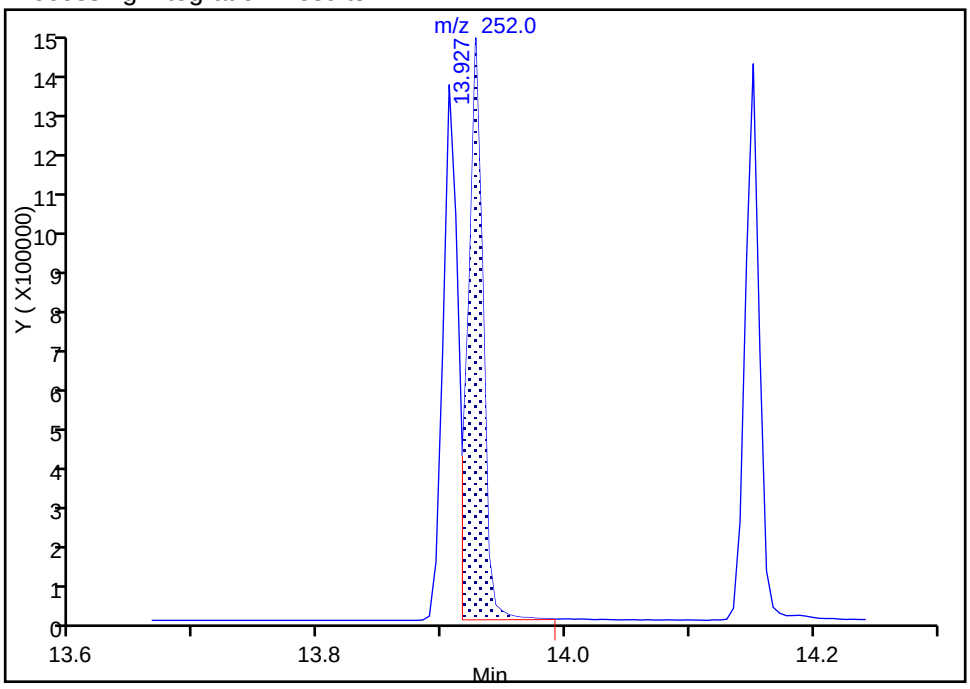
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Injection Date: 19-Oct-2017 13:34:30 Instrument ID: HP5973X
Lims ID: ICIS - List1 50
Client ID:
Operator ID: DR ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

175 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

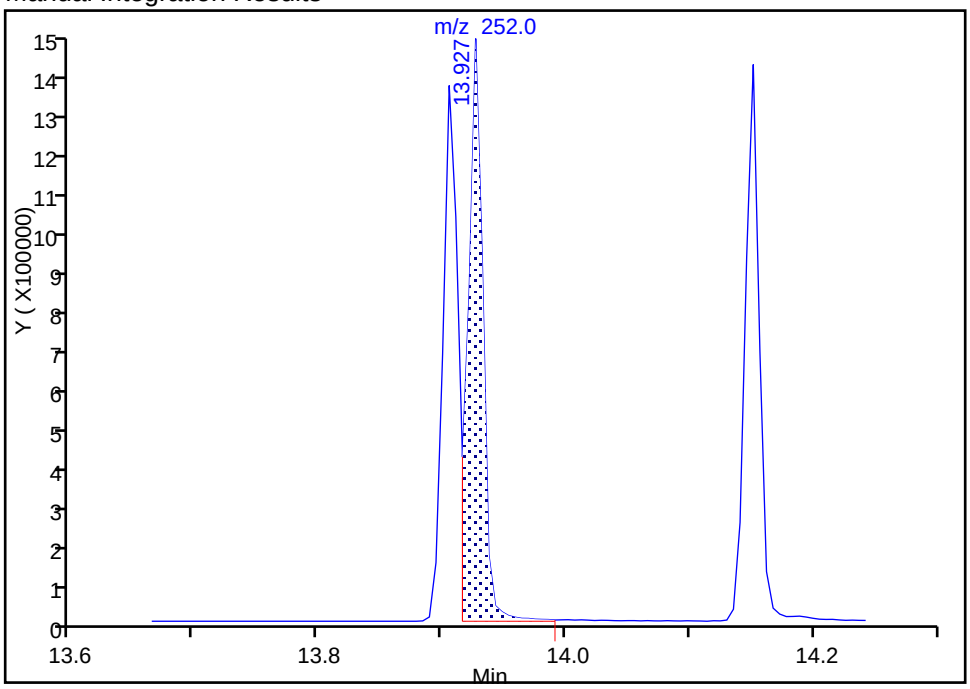
Processing Integration Results

RT: 13.93
Area: 1227681
Amount: 51.885981
Amount Units: ng/uL



Manual Integration Results

RT: 13.93
Area: 1235567
Amount: 50.348979
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 16:06:07
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20658.D
Lims ID: IC - List1 80
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 19-Oct-2017 14:00:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066532-006
Operator ID: DR Instrument ID: HP5973X
Sublist: chrom-X-8270*sub83

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Oct-2017 12:19:40 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: richardsd Date: 19-Oct-2017 16:06:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.395	5.395	0.000	93	228606	40.0	40.0	
* 2 Naphthalene-d8	136	6.955	6.950	0.005	98	714220	40.0	40.0	
* 3 Acenaphthene-d10	164	9.023	9.007	0.016	97	326408	40.0	40.0	
* 4 Phenanthrene-d10	188	10.663	10.658	0.005	98	738956	40.0	40.0	
* 5 Chrysene-d12	240	13.051	13.051	0.000	99	798595	40.0	40.0	
* 6 Perylene-d12	264	14.189	14.194	-0.005	99	811851	40.0	40.0	
$ 7 2-Fluorophenol	112	3.627	3.622	0.005	93	573936	80.0	77.8	
$ 8 Phenol-d5	99	4.973	4.968	0.005	89	730832	80.0	81.9	
$ 9 Nitrobenzene-d5	82	6.090	6.090	0.000	92	619923	80.0	85.2	
$ 10 2-Fluorobiphenyl	172	8.248	8.238	0.010	100	1077698	80.0	79.8	
$ 11 2,4,6-Tribromophenol	330	9.936	9.926	0.010	95	175405	80.0	80.6	
$ 12 p-Terphenyl-d14	244	12.164	12.164	0.000	100	1265630	80.0	82.3	
15 1,4-Dioxane	88	1.421	1.415	0.006	92	276012	80.0	80.6	
16 N-Nitrosodimethylamine	42	1.688	1.677	0.011	72	249337	80.0	77.8	
17 Pyridine	52	1.725	1.715	0.010	81	757521	160.0	157.3	
27 Benzaldehyde	77	4.824	4.824	0.000	86	389526	80.0	73.4	
29 Aniline	93	4.979	4.973	0.006	95	941059	80.0	81.7	
28 Phenol	94	4.989	4.984	0.005	86	792724	80.0	79.7	
31 Bis(2-chloroethyl)ether	93	5.080	5.080	0.000	91	590262	80.0	81.4	
32 2-Chlorophenol	128	5.128	5.128	0.000	99	571961	80.0	79.3	
35 n-Decane	57	5.241	5.241	0.000	95	609831	80.0	80.7	
36 1,3-Dichlorobenzene	146	5.321	5.321	0.000	96	670388	80.0	78.6	
37 1,4-Dichlorobenzene	146	5.417	5.417	0.000	96	705038	80.0	80.0	
38 Benzyl alcohol	108	5.593	5.593	0.000	92	373601	80.0	81.2	
39 1,2-Dichlorobenzene	146	5.604	5.604	0.000	97	607766	80.0	80.8	
229 Indene	115	5.721	5.721	0.000	84	2901364	240.0	251.8	
40 2-Methylphenol	108	5.753	5.753	0.000	96	504171	80.0	80.9	
42 2,2'-oxybis[1-chloropropan	45	5.775	5.769	0.006	93	586450	80.0	81.3	
45 Acetophenone	105	5.908	5.908	0.000	93	771227	80.0	81.2	
47 N-Nitrosodi-n-propylamine	70	5.930	5.930	0.000	81	390636	80.0	79.5	
46 4-Methylphenol	108	5.956	5.956	0.000	93	547792	80.0	81.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.021	6.020	0.001	91	263615	80.0	81.9	
52 Nitrobenzene	77	6.117	6.111	0.006	90	609265	80.0	85.1	
56 Isophorone	82	6.416	6.410	0.006	96	929609	80.0	75.6	
58 2-Nitrophenol	139	6.507	6.501	0.006	84	290673	80.0	77.8	
59 2,4-Dimethylphenol	107	6.597	6.592	0.005	96	578703	80.0	81.2	
62 Bis(2-chloroethoxy)methane	93	6.704	6.699	0.005	94	645177	80.0	81.7	
65 2,4-Dichlorophenol	162	6.806	6.800	0.006	95	433853	80.0	73.3	
64 Benzoic acid	105	6.843	6.806	0.037	80	965771	240.0	238.4	M
67 1,2,4-Trichlorobenzene	180	6.902	6.891	0.011	96	528159	80.0	77.8	
69 Naphthalene	128	6.982	6.977	0.005	99	1478213	80.0	78.5	
71 4-Chloroaniline	127	7.068	7.062	0.006	97	630106	80.0	84.5	
70 2,6-Dichlorophenol	162	7.078	7.068	0.010	98	479050	80.0	84.6	
73 Hexachlorobutadiene	225	7.158	7.153	0.005	95	381865	80.0	82.1	
78 Caprolactam	113	7.500	7.474	0.026	89	148637	80.0	77.1	
79 4-Chloro-3-methylphenol	107	7.677	7.666	0.011	94	447567	80.0	77.7	
82 2-Methylnaphthalene	142	7.805	7.799	0.006	97	1043585	80.0	80.0	
83 1-Methylnaphthalene	142	7.917	7.912	0.005	99	958873	80.0	80.6	
85 1,2,4,5-Tetrachlorobenzene	216	8.008	7.997	0.011	97	591881	80.0	90.8	
84 Hexachlorocyclopentadiene	237	8.008	7.997	0.011	94	460081	80.0	87.6	
86 2,4,6-Trichlorophenol	196	8.152	8.141	0.011	92	350195	80.0	84.7	
87 2,4,5-Trichlorophenol	196	8.189	8.179	0.010	94	378907	80.0	87.2	
90 1,1'-Biphenyl	154	8.360	8.350	0.010	99	1106271	80.0	81.1	
91 2-Chloronaphthalene	162	8.371	8.355	0.016	98	871817	80.0	80.7	
93 2-Nitroaniline	65	8.505	8.489	0.016	92	236864	80.0	78.8	
96 Dimethyl phthalate	163	8.745	8.729	0.016	99	934459	80.0	78.9	
97 1,3-Dinitrobenzene	168	8.761	8.740	0.021	92	175686	80.0	73.0	
99 2,6-Dinitrotoluene	165	8.804	8.788	0.016	96	231639	80.0	80.2	
100 Acenaphthylene	152	8.852	8.836	0.016	100	1252053	80.0	81.7	
101 3-Nitroaniline	138	8.991	8.975	0.016	96	230577	80.0	79.6	
102 Acenaphthene	153	9.060	9.044	0.016	98	847863	80.0	83.1	
103 2,4-Dinitrophenol	184	9.114	9.098	0.016	85	314118	160.0	154.1	
104 4-Nitrophenol	109	9.226	9.210	0.016	92	290481	160.0	161.3	
107 Dibenzofuran	168	9.263	9.253	0.010	97	1223113	80.0	82.2	
106 2,4-Dinitrotoluene	165	9.269	9.258	0.011	95	306740	80.0	83.7	
110 2,3,4,6-Tetrachlorophenol	232	9.424	9.413	0.011	94	296548	80.0	83.6	
112 Diethyl phthalate	149	9.578	9.568	0.010	100	1025978	80.0	88.4	
138 Hexadecane	57	9.621	9.616	0.005	97	588929	80.0	92.3	
115 Fluorene	166	9.664	9.653	0.011	98	1095148	80.0	91.0	
116 4-Chlorophenyl phenyl ethe	204	9.680	9.669	0.011	96	620280	80.0	91.4	
118 4-Nitroaniline	138	9.707	9.691	0.016	85	257669	80.0	87.9	
119 4,6-Dinitro-2-methylphenol	198	9.744	9.733	0.011	95	422055	160.0	158.4	
121 Diphenylamine	169	9.819	9.808	0.011	98	797377	68.4	69.7	
120 N-Nitrosodiphenylamine	169	9.819	9.808	0.011	97	797377	80.0	81.6	
122 Azobenzene	77	9.856	9.851	0.005	95	1029658	80.0	81.5	
123 1,2-Diphenylhydrazine	77	9.856	9.851	0.005	98	1029658	80.0	81.5	
130 4-Bromophenyl phenyl ether	248	10.214	10.209	0.005	92	372601	80.0	82.1	
131 Hexachlorobenzene	284	10.273	10.268	0.005	96	378327	80.0	82.8	
133 Atrazine	200	10.417	10.412	0.005	93	299595	80.0	89.6	
134 Pentachlorophenol	266	10.487	10.481	0.006	95	445390	160.0	164.4	
113 n-Octadecane	57	10.620	10.620	0.000	91	560310	80.0	80.5	
141 Phenanthrene	178	10.684	10.684	0.000	99	1504781	80.0	79.5	
142 Anthracene	178	10.738	10.732	0.006	99	1571425	80.0	78.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
143 Carbazole	167	10.909	10.903	0.006	99	1416303	80.0	79.1	
145 Di-n-butyl phthalate	149	11.272	11.277	-0.005	99	1639093	80.0	78.6	
152 Fluoranthene	202	11.812	11.811	0.001	99	1750615	80.0	79.2	
154 Benzidine	184	11.940	11.945	-0.005	100	763048	80.0	83.7	
155 Pyrene	202	12.009	12.009	0.000	99	1786441	80.0	79.3	
162 Butyl benzyl phthalate	149	12.591	12.597	-0.006	99	740701	80.0	81.6	
166 3,3'-Dichlorobenzidine	252	13.030	13.030	0.000	86	658461	80.0	81.6	
167 Benzo[a]anthracene	228	13.040	13.046	-0.006	96	1736525	80.0	81.9	
169 Chrysene	228	13.072	13.078	-0.006	99	1641845	80.0	78.5	
172 Bis(2-ethylhexyl) phthalat	149	13.083	13.083	0.000	96	1025995	80.0	81.7	
168 Di-n-octyl phthalate	149	13.601	13.601	0.000	100	1698983	80.0	79.8	
174 Benzo[b]fluoranthene	252	13.906	13.906	0.000	98	1860690	80.0	79.7	
175 Benzo[k]fluoranthene	252	13.927	13.927	0.000	97	2021333	80.0	76.6	M
177 Benzo[a]pyrene	252	14.151	14.151	0.000	100	1891485	80.0	82.9	
180 Indeno[1,2,3-cd]pyrene	276	15.033	15.033	0.000	92	2353914	80.0	84.4	
181 Dibenz(a,h)anthracene	278	15.044	15.038	0.006	95	1982723	80.0	84.4	
182 Benzo[g,h,i]perylene	276	15.268	15.268	0.000	100	2040689	80.0	85.3	
S 236 3 & 4 Methylphenol	108				0			81.8	
S 238 3-Methylphenol	1				0			81.8	
S 237 Total Cresols	1				0			162.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

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MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

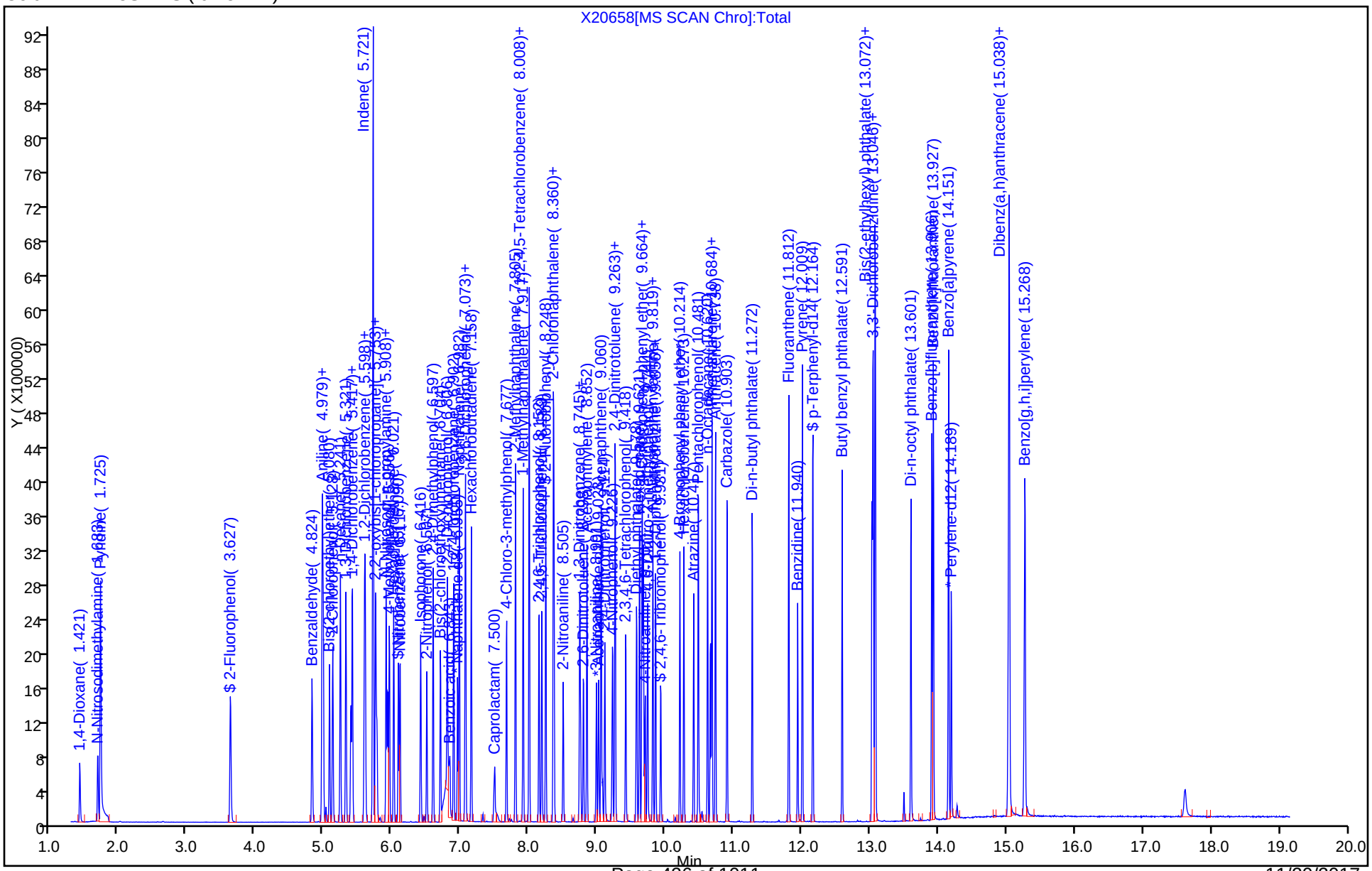
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TestAmerica Buffalo

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Injection Date:	19-Oct-2017 14:00:30	Instrument ID:	HP5973X	Operator ID:	DR
Lims ID:	IC - List1 80			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

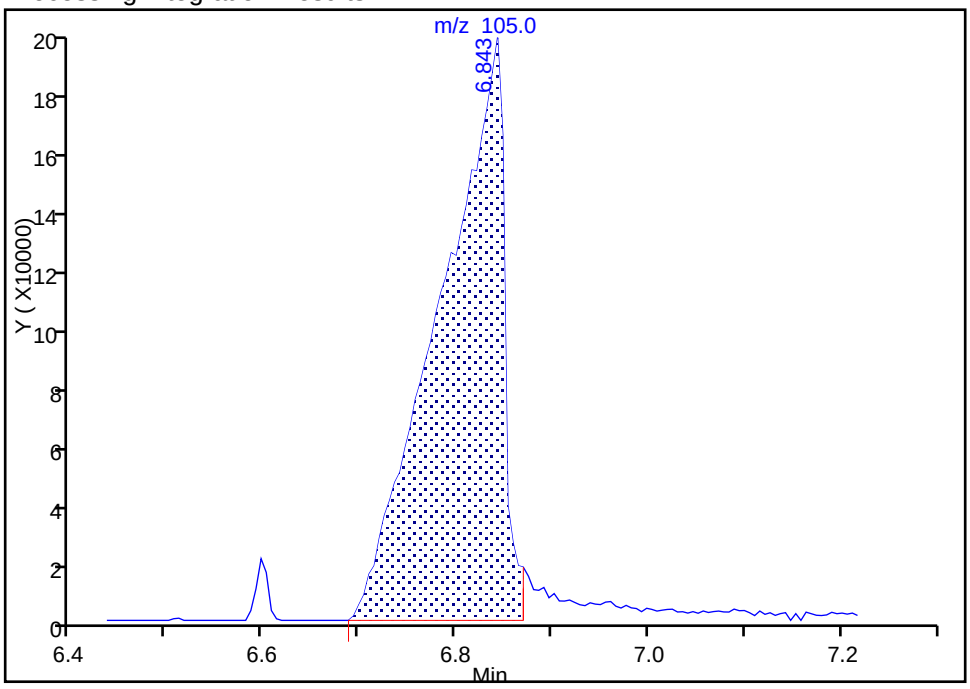
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Injection Date: 19-Oct-2017 14:00:30 Instrument ID: HP5973X
Lims ID: IC - List1 80
Client ID:
Operator ID: DR ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

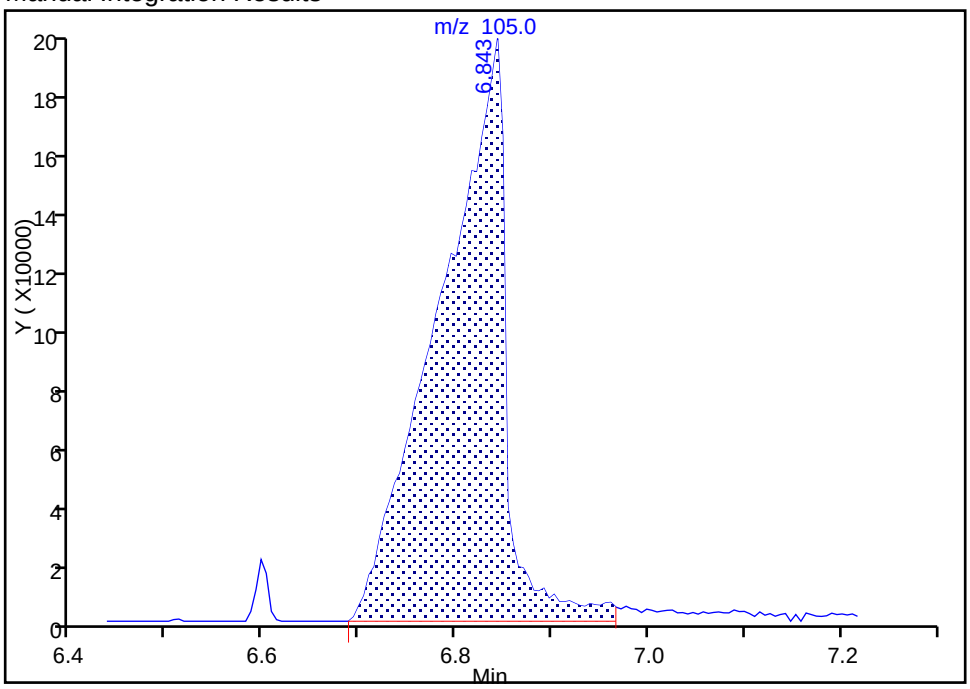
Processing Integration Results

RT: 6.84
Area: 922595
Amount: 336.4105
Amount Units: ng/uL



Manual Integration Results

RT: 6.84
Area: 965771
Amount: 238.3987
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 15:32:46
Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

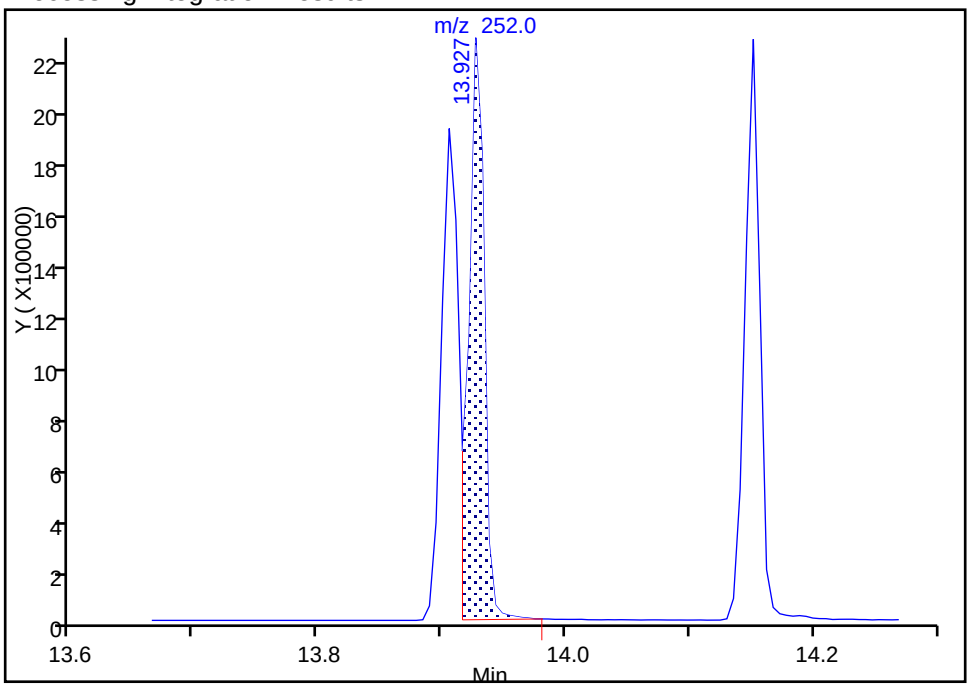
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Injection Date: 19-Oct-2017 14:00:30 Instrument ID: HP5973X
Lims ID: IC - List1 80
Client ID:
Operator ID: DR ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

175 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

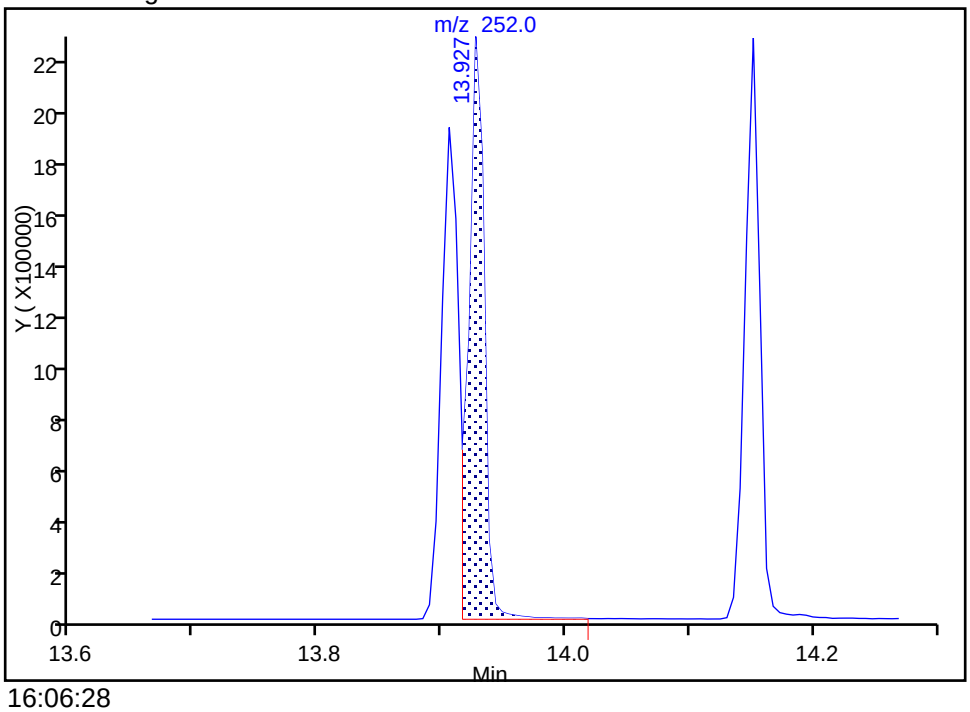
Processing Integration Results

RT: 13.93
Area: 1997004
Amount: 78.495252
Amount Units: ng/uL



Manual Integration Results

RT: 13.93
Area: 2021333
Amount: 76.605895
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 16:06:28
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20659.D
Lims ID: IC - List1 120
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 19-Oct-2017 14:27:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066532-007
Operator ID: DR Instrument ID: HP5973X
Sublist: chrom-X-8270*sub83

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Oct-2017 12:19:46 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: pagem Date: 20-Oct-2017 12:19:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.427	5.395	0.032	93	200645	40.0	40.0	
* 2 Naphthalene-d8	136	6.961	6.950	0.011	98	638146	40.0	40.0	
* 3 Acenaphthene-d10	164	9.044	9.007	0.037	98	314971	40.0	40.0	
* 4 Phenanthrene-d10	188	10.679	10.658	0.021	98	615965	40.0	40.0	
* 5 Chrysene-d12	240	13.051	13.051	0.000	99	814848	40.0	40.0	
* 6 Perylene-d12	264	14.199	14.194	0.005	99	819437	40.0	40.0	
$ 7 2-Fluorophenol	112	3.638	3.622	0.016	93	798069	120.0	123.2	
$ 8 Phenol-d5	99	5.005	4.968	0.037	89	926722	120.0	118.3	
$ 9 Nitrobenzene-d5	82	6.111	6.090	0.021	92	769874	120.0	118.5	
$ 10 2-Fluorobiphenyl	172	8.275	8.238	0.037	100	1512826	120.0	116.0	
$ 11 2,4,6-Tribromophenol	330	9.963	9.926	0.037	97	218064	120.0	119.3	
$ 12 p-Terphenyl-d14	244	12.164	12.164	0.000	100	1801275	120.0	115.5	
15 1,4-Dioxane	88	1.415	1.415	0.000	92	380092	120.0	126.4	
16 N-Nitrosodimethylamine	42	1.682	1.677	0.005	71	346316	120.0	123.2	
17 Pyridine	52	1.720	1.715	0.005	82	1058131	240.0	251.0	
27 Benzaldehyde	77	4.850	4.824	0.026	86	402858	120.0	86.5	
29 Aniline	93	5.005	4.973	0.032	96	1186066	120.0	117.3	
28 Phenol	94	5.021	4.984	0.037	90	1029495	120.0	118.0	
31 Bis(2-chloroethyl)ether	93	5.112	5.080	0.032	92	741720	120.0	116.5	
32 2-Chlorophenol	128	5.160	5.128	0.032	99	746957	120.0	118.0	
35 n-Decane	57	5.272	5.241	0.031	95	795219	120.0	119.9	
36 1,3-Dichlorobenzene	146	5.353	5.321	0.032	96	878279	120.0	117.3	
37 1,4-Dichlorobenzene	146	5.449	5.417	0.032	96	883712	120.0	114.2	
38 Benzyl alcohol	108	5.630	5.593	0.037	94	495350	120.0	122.9	
39 1,2-Dichlorobenzene	146	5.636	5.604	0.032	96	817722	120.0	124.8	
229 Indene	115	5.753	5.721	0.032	84	3676472	360.0	382.8	
40 2-Methylphenol	108	5.785	5.753	0.032	96	682906	120.0	125.5	
42 2,2'-oxybis[1-chloropropan	45	5.801	5.769	0.032	93	769938	120.0	122.6	
45 Acetophenone	105	5.940	5.908	0.032	92	974707	120.0	117.0	
47 N-Nitrosodi-n-propylamine	70	5.962	5.930	0.032	83	512163	120.0	118.8	
46 4-Methylphenol	108	5.983	5.956	0.027	94	694386	120.0	118.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.042	6.020	0.022	94	340744	120.0	120.6	
52 Nitrobenzene	77	6.138	6.111	0.027	91	758075	120.0	118.4	
56 Isophorone	82	6.432	6.410	0.022	97	1251071	120.0	113.6	
58 2-Nitrophenol	139	6.517	6.501	0.016	87	380789	120.0	113.5	
59 2,4-Dimethylphenol	107	6.608	6.592	0.016	97	734153	120.0	115.2	
62 Bis(2-chloroethoxy)methane	93	6.715	6.699	0.016	94	794733	120.0	112.6	
65 2,4-Dichlorophenol	162	6.811	6.800	0.011	95	600872	120.0	113.5	
64 Benzoic acid	105	6.870	6.806	0.064	81	1371509	360.0	370.9	M
67 1,2,4-Trichlorobenzene	180	6.902	6.891	0.011	96	719998	120.0	118.7	
69 Naphthalene	128	6.987	6.977	0.010	99	1867531	120.0	111.0	
71 4-Chloroaniline	127	7.073	7.062	0.011	98	777154	120.0	116.7	
70 2,6-Dichlorophenol	162	7.078	7.068	0.010	97	587986	120.0	116.2	
73 Hexachlorobutadiene	225	7.164	7.153	0.011	96	482697	120.0	116.2	
78 Caprolactam	113	7.527	7.474	0.053	89	195809	120.0	113.4	M
79 4-Chloro-3-methylphenol	107	7.687	7.666	0.021	94	582809	120.0	113.0	
82 2-Methylnaphthalene	142	7.821	7.799	0.022	97	1294745	120.0	111.1	
83 1-Methylnaphthalene	142	7.938	7.912	0.026	100	1217856	120.0	114.5	
84 Hexachlorocyclopentadiene	237	8.029	7.997	0.032	94	598392	120.0	117.5	
85 1,2,4,5-Tetrachlorobenzene	216	8.029	7.997	0.032	96	743355	120.0	118.2	
86 2,4,6-Trichlorophenol	196	8.173	8.141	0.032	93	462819	120.0	115.5	
87 2,4,5-Trichlorophenol	196	8.216	8.179	0.037	94	481182	120.0	114.3	
90 1,1'-Biphenyl	154	8.387	8.350	0.037	99	1542142	120.0	117.1	
91 2-Chloronaphthalene	162	8.398	8.355	0.043	99	1229777	120.0	118.0	
93 2-Nitroaniline	65	8.531	8.489	0.042	91	345162	120.0	118.4	
96 Dimethyl phthalate	163	8.772	8.729	0.043	100	1330143	120.0	116.4	
97 1,3-Dinitrobenzene	168	8.788	8.740	0.048	92	252333	120.0	116.9	
99 2,6-Dinitrotoluene	165	8.825	8.788	0.037	93	326780	120.0	116.9	
100 Acenaphthylene	152	8.878	8.836	0.042	100	1757479	120.0	118.9	
101 3-Nitroaniline	138	9.017	8.975	0.042	96	326188	120.0	116.3	
102 Acenaphthene	153	9.087	9.044	0.043	98	1176808	120.0	119.5	
103 2,4-Dinitrophenol	184	9.140	9.098	0.042	83	478877	240.0	238.2	
104 4-Nitrophenol	109	9.258	9.210	0.048	89	417857	240.0	237.4	
107 Dibenzofuran	168	9.290	9.253	0.037	98	1705577	120.0	118.8	
106 2,4-Dinitrotoluene	165	9.295	9.258	0.037	98	424419	120.0	119.7	
110 2,3,4,6-Tetrachlorophenol	232	9.445	9.413	0.032	94	402017	120.0	116.7	
112 Diethyl phthalate	149	9.605	9.568	0.037	100	1288851	120.0	115.1	
138 Hexadecane	57	9.648	9.616	0.032	96	730893	120.0	118.7	
115 Fluorene	166	9.685	9.653	0.032	98	1331511	120.0	114.6	
116 4-Chlorophenyl phenyl ethe	204	9.707	9.669	0.038	96	748659	120.0	114.4	
118 4-Nitroaniline	138	9.739	9.691	0.048	89	325750	120.0	114.8	
119 4,6-Dinitro-2-methylphenol	198	9.771	9.733	0.038	95	531627	240.0	236.3	
120 N-Nitrosodiphenylamine	169	9.845	9.808	0.037	97	991832	120.0	121.7	
121 Diphenylamine	169	9.845	9.808	0.037	99	991832	102.6	104.1	
123 1,2-Diphenylhydrazine	77	9.883	9.851	0.032	98	1292111	120.0	122.7	
122 Azobenzene	77	9.883	9.851	0.032	95	1292111	120.0	122.7	
130 4-Bromophenyl phenyl ether	248	10.241	10.209	0.032	94	454171	120.0	120.0	
131 Hexachlorobenzene	284	10.300	10.268	0.032	96	459840	120.0	120.8	
133 Atrazine	200	10.444	10.412	0.032	93	363749	120.0	112.9	
134 Pentachlorophenol	266	10.508	10.481	0.027	96	583402	240.0	254.4	
113 n-Octadecane	57	10.641	10.620	0.021	92	696099	120.0	119.7	
141 Phenanthrene	178	10.706	10.684	0.022	99	1847016	120.0	117.1	
142 Anthracene	178	10.754	10.732	0.022	99	1941488	120.0	117.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
143 Carbazole	167	10.925	10.903	0.022	99	1919504	120.0	128.7	
145 Di-n-butyl phthalate	149	11.282	11.277	0.005	99	2244231	120.0	128.8	
152 Fluoranthene	202	11.811	11.811	0.000	99	2438803	120.0	132.4	
154 Benzidine	184	11.940	11.945	-0.005	100	961659	120.0	103.3	
155 Pyrene	202	12.009	12.009	0.000	99	2475594	120.0	107.7	
162 Butyl benzyl phthalate	149	12.591	12.597	-0.006	99	1082060	120.0	116.7	
166 3,3'-Dichlorobenzidine	252	13.029	13.030	-0.001	86	990429	120.0	120.0	
167 Benzo[a]anthracene	228	13.045	13.046	-0.001	96	2581562	120.0	119.6	
169 Chrysene	228	13.077	13.078	-0.001	99	2435344	120.0	114.2	
172 Bis(2-ethylhexyl) phthalat	149	13.077	13.083	-0.006	97	1482306	120.0	115.6	
168 Di-n-octyl phthalate	149	13.601	13.601	0.000	100	2580190	120.0	118.7	
174 Benzo[b]fluoranthene	252	13.916	13.906	0.010	98	2700430	120.0	114.7	M
175 Benzo[k]fluoranthene	252	13.938	13.927	0.011	98	3142656	120.0	118.0	M
177 Benzo[a]pyrene	252	14.162	14.151	0.011	100	2748549	120.0	119.5	
180 Indeno[1,2,3-cd]pyrene	276	15.054	15.033	0.021	96	3361974	120.0	119.4	
181 Dibenz(a,h)anthracene	278	15.065	15.038	0.027	97	2848588	120.0	120.2	
182 Benzo[g,h,i]perylene	276	15.295	15.268	0.026	99	2903530	120.0	120.2	
S 238 3-Methylphenol	1				0			118.2	
S 237 Total Cresols	1				0			243.7	
S 236 3 & 4 Methylphenol	108				0			118.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

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MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

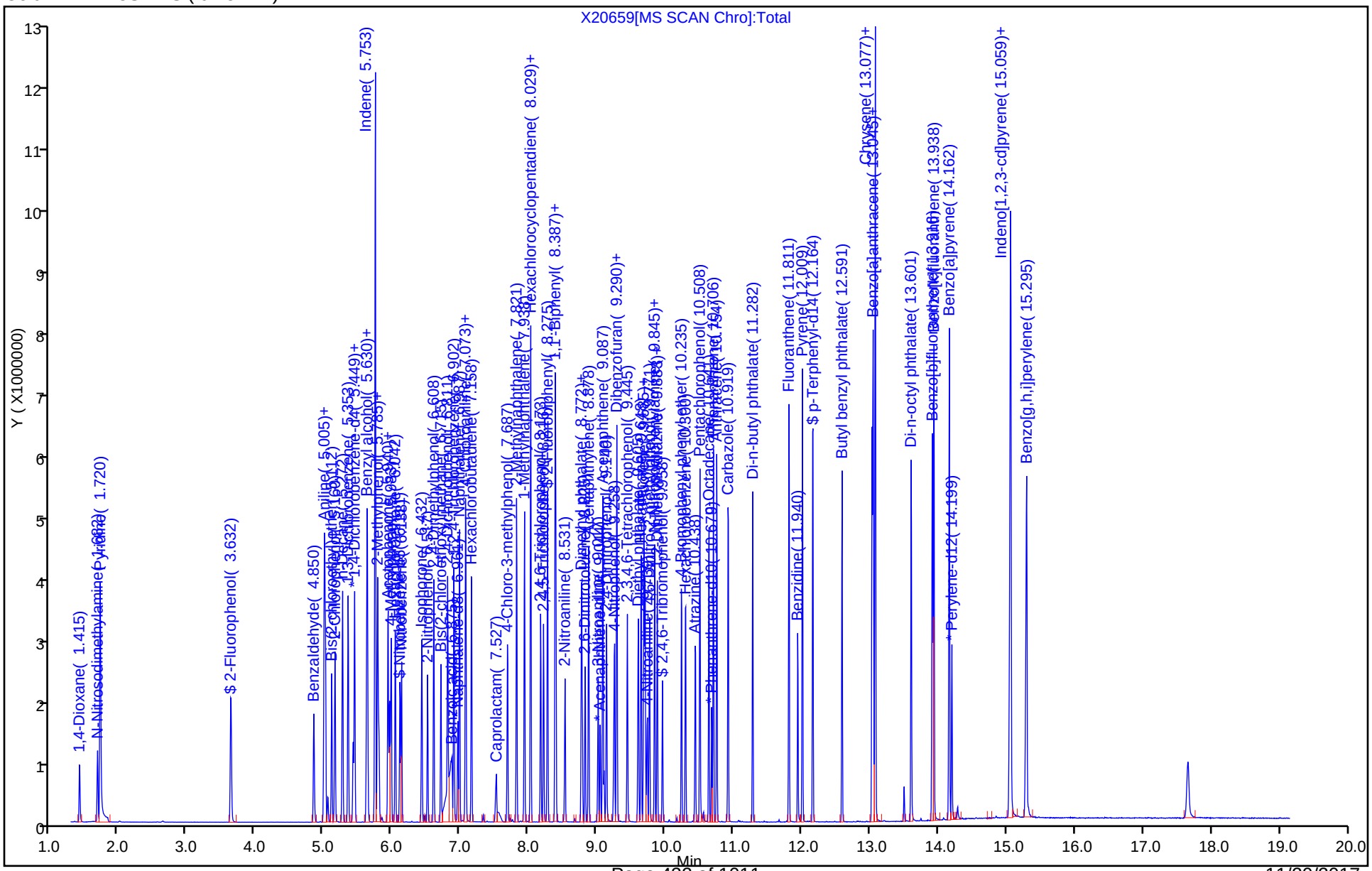
Report Date: 20-Oct-2017 12:19:47 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20659.D

Injection Date:	19-Oct-2017 14:27:30	Instrument ID:	HP5973X	Operator ID:	DR
Lims ID:	IC - List1 120			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

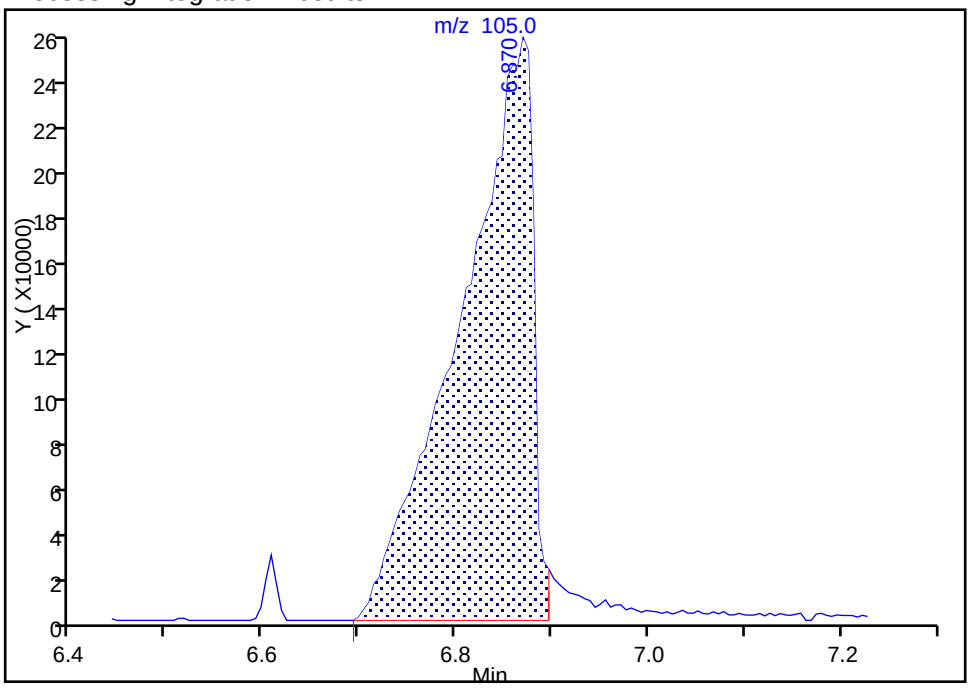
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20659.D
Injection Date: 19-Oct-2017 14:27:30 Instrument ID: HP5973X
Lims ID: IC - List1 120
Client ID:
Operator ID: DR ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

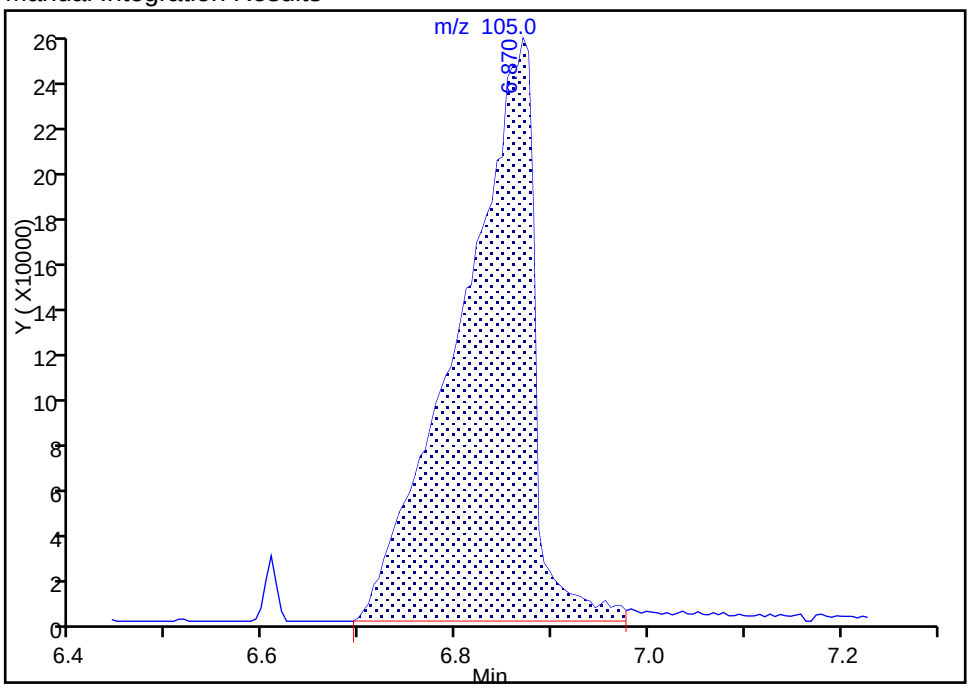
Processing Integration Results

RT: 6.87
Area: 1326539
Amount: 373.8562
Amount Units: ng/uL



Manual Integration Results

RT: 6.87
Area: 1371509
Amount: 370.9214
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 15:31:57
Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

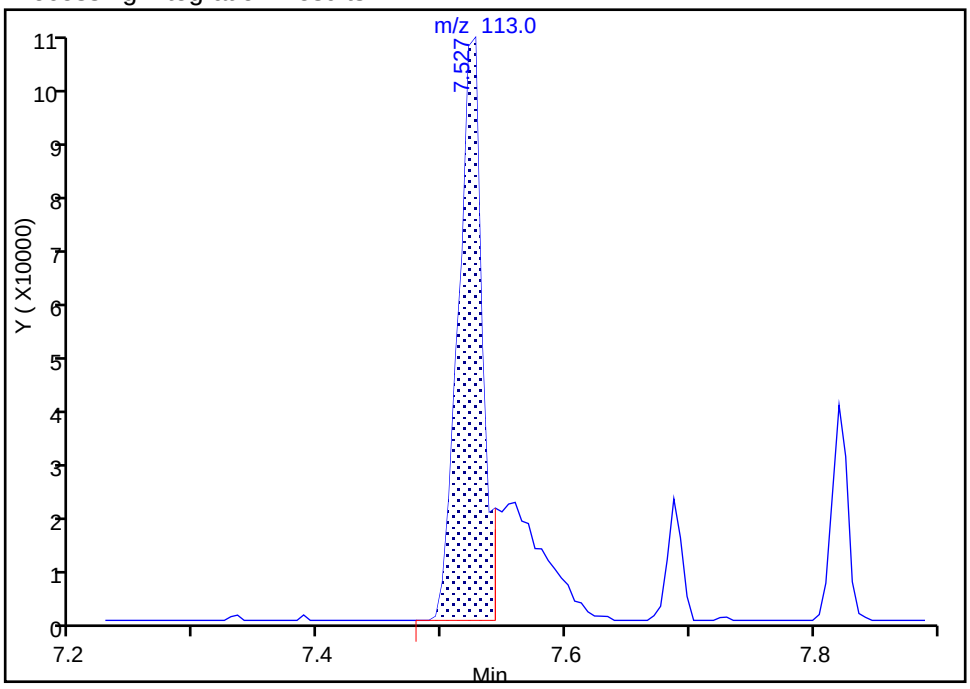
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Injection Date: 19-Oct-2017 14:27:30 Instrument ID: HP5973X
Lims ID: IC - List1 120
Client ID:
Operator ID: DR ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

78 Caprolactam, CAS: 105-60-2

Signal: 1

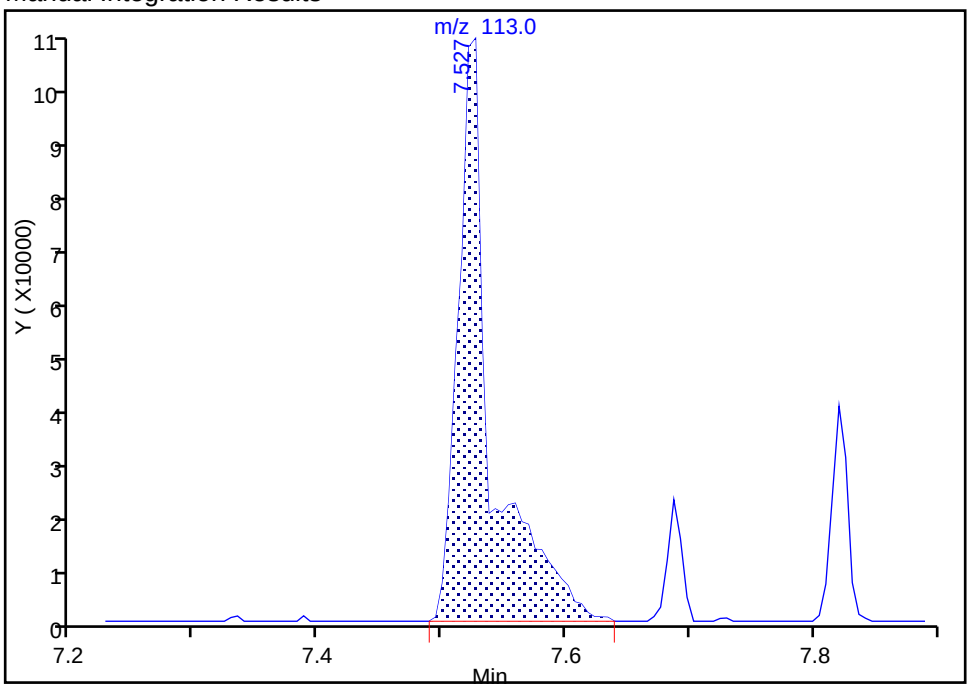
Processing Integration Results

RT: 7.53
Area: 142006
Amount: 98.952913
Amount Units: ng/uL



Manual Integration Results

RT: 7.53
Area: 195809
Amount: 113.4278
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 15:20:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

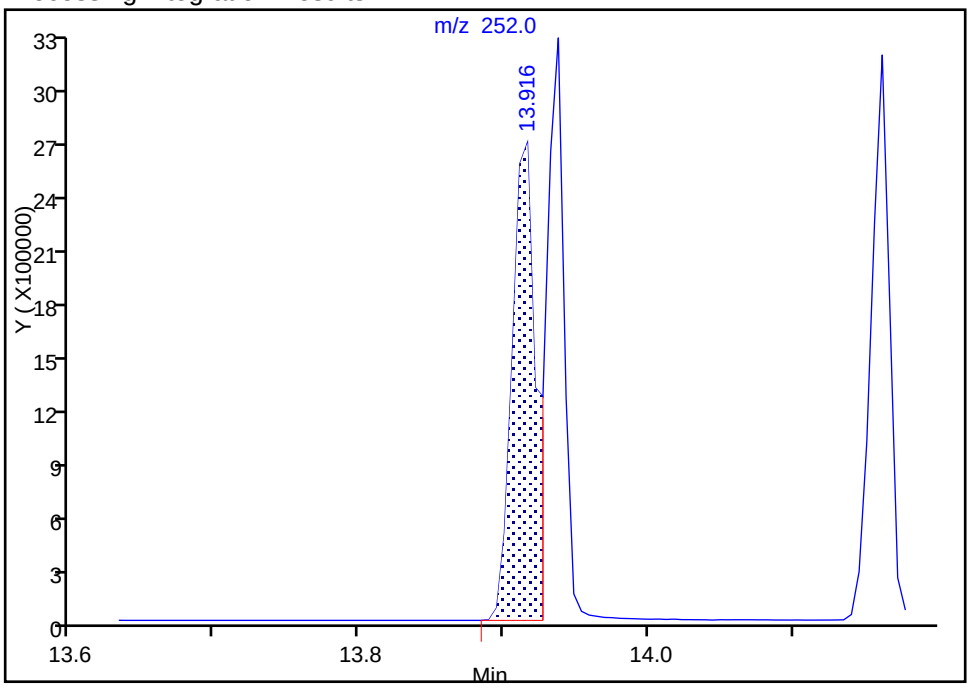
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Injection Date: 19-Oct-2017 14:27:30 Instrument ID: HP5973X
Lims ID: IC - List1 120
Client ID:
Operator ID: DR ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

174 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

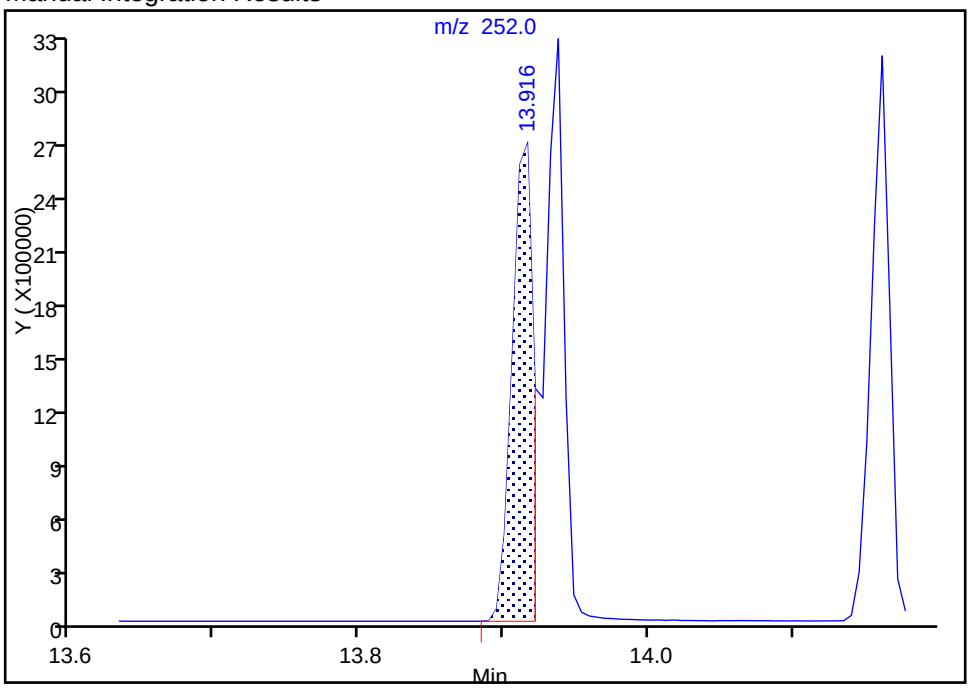
Processing Integration Results

RT: 13.92
Area: 3096176
Amount: 128.4729
Amount Units: ng/uL



Manual Integration Results

RT: 13.92
Area: 2700430
Amount: 114.6670
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 16:07:29
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

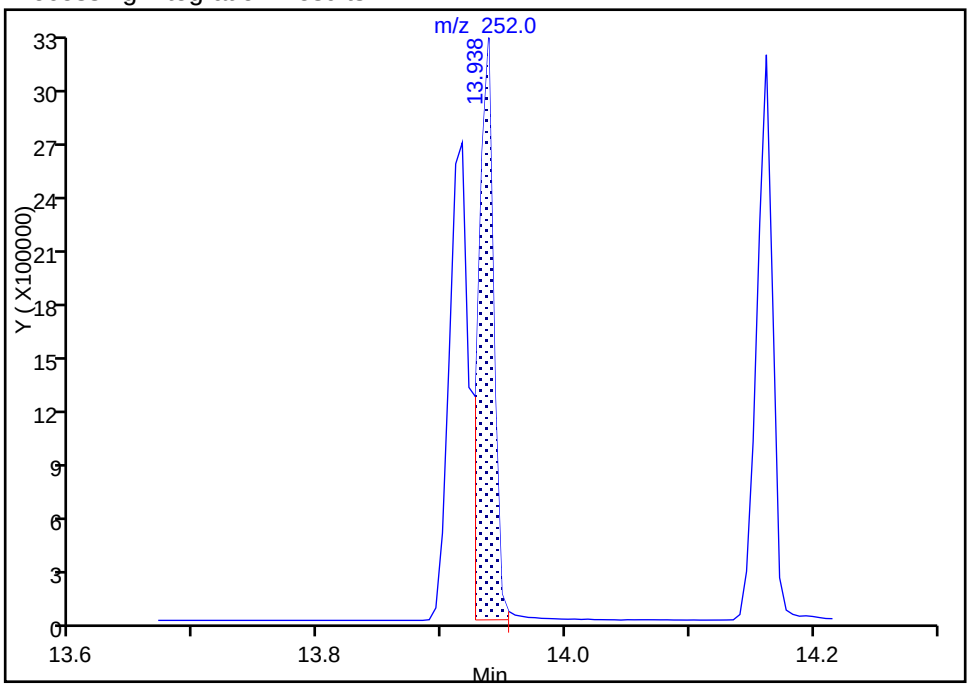
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20659.D
Injection Date: 19-Oct-2017 14:27:30 Instrument ID: HP5973X
Lims ID: IC - List1 120
Client ID:
Operator ID: DR ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

175 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

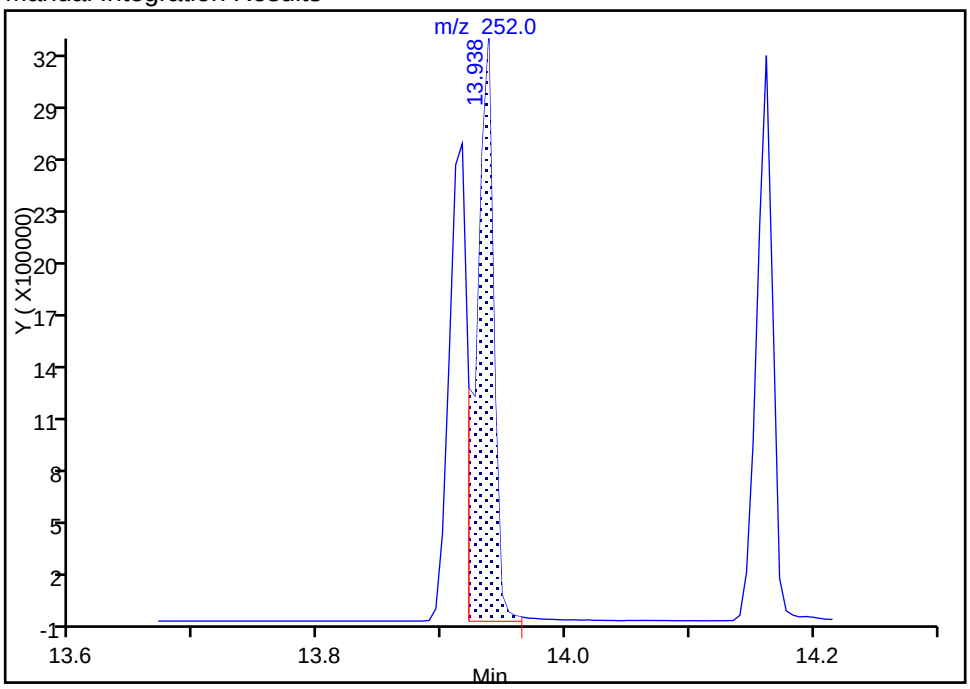
Processing Integration Results

RT: 13.94
Area: 2705564
Amount: 105.3618
Amount Units: ng/uL



Manual Integration Results

RT: 13.94
Area: 3142656
Amount: 118.0000
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 16:07:52
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D
Lims ID: IC - List1 160
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 19-Oct-2017 14:53:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066532-008
Operator ID: DR Instrument ID: HP5973X
Sublist: chrom-X-8270*sub83

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Oct-2017 12:19:57 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: richardsd Date: 19-Oct-2017 16:08:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.401	5.395	0.006	93	234714	40.0	40.0	
* 2 Naphthalene-d8	136	6.961	6.950	0.011	98	714867	40.0	40.0	
* 3 Acenaphthene-d10	164	9.034	9.007	0.027	97	362604	40.0	40.0	
* 4 Phenanthrene-d10	188	10.658	10.658	0.000	99	749856	40.0	40.0	
* 5 Chrysene-d12	240	13.056	13.051	0.005	99	853911	40.0	40.0	
* 6 Perylene-d12	264	14.194	14.194	0.000	99	839583	40.0	40.0	M
$ 7 2-Fluorophenol	112	3.643	3.622	0.021	92	1264885	160.0	166.9	
$ 8 Phenol-d5	99	4.989	4.968	0.021	88	1351242	160.0	147.5	
$ 9 Nitrobenzene-d5	82	6.095	6.090	0.005	92	1183704	160.0	162.6	
$ 10 2-Fluorobiphenyl	172	8.270	8.238	0.032	100	2447416	160.0	163.0	
$ 11 2,4,6-Tribromophenol	330	9.936	9.926	0.010	96	363292	160.0	162.5	
$ 12 p-Terphenyl-d14	244	12.169	12.164	0.005	100	2561137	160.0	157.3	
15 1,4-Dioxane	88	1.426	1.415	0.011	93	547450	160.0	155.6	
16 N-Nitrosodimethylamine	42	1.699	1.677	0.022	72	503952	160.0	153.2	
17 Pyridine	52	1.736	1.715	0.021	82	1515682	320.0	307.6	
27 Benzaldehyde	77	4.835	4.824	0.011	86	489513	160.0	89.9	
29 Aniline	93	4.989	4.973	0.016	95	1723867	160.0	145.7	
28 Phenol	94	5.005	4.984	0.021	87	1507202	160.0	147.6	
31 Bis(2-chloroethyl)ether	93	5.096	5.080	0.016	92	1109544	160.0	149.0	
32 2-Chlorophenol	128	5.139	5.128	0.011	99	1117034	160.0	150.9	
35 n-Decane	57	5.251	5.241	0.010	95	1175764	160.0	151.6	
36 1,3-Dichlorobenzene	146	5.326	5.321	0.005	96	1361240	160.0	155.5	
37 1,4-Dichlorobenzene	146	5.422	5.417	0.005	96	1358838	160.0	150.1	
38 Benzyl alcohol	108	5.609	5.593	0.016	93	713652	160.0	151.5	
39 1,2-Dichlorobenzene	146	5.609	5.604	0.005	96	1139876	160.0	149.1	
229 Indene	115	5.732	5.721	0.011	84	5081421	480.0	434.6	
40 2-Methylphenol	108	5.764	5.753	0.011	96	958150	160.0	150.8	
42 2,2'-oxybis[1-chloropropan	45	5.780	5.769	0.011	93	1116094	160.0	152.4	
45 Acetophenone	105	5.919	5.908	0.011	94	1430590	160.0	146.8	
47 N-Nitrosodi-n-propylamine	70	5.946	5.930	0.016	81	750411	160.0	148.8	
46 4-Methylphenol	108	5.967	5.956	0.011	93	1027900	160.0	149.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.026	6.020	0.006	92	503907	160.0	152.4	
52 Nitrobenzene	77	6.122	6.111	0.011	91	1172084	160.0	163.5	
56 Isophorone	82	6.427	6.410	0.017	96	2067070	160.0	167.2	
58 2-Nitrophenol	139	6.507	6.501	0.006	85	621738	160.0	164.9	
59 2,4-Dimethylphenol	107	6.603	6.592	0.011	96	1135169	160.0	159.0	
62 Bis(2-chloroethoxy)methane	93	6.710	6.699	0.011	95	1225297	160.0	155.0	
65 2,4-Dichlorophenol	162	6.811	6.800	0.011	94	994410	160.0	167.5	
64 Benzoic acid	105	6.918	6.806	0.112	59	2295308	480.0	547.4	M
67 1,2,4-Trichlorobenzene	180	6.902	6.891	0.011	98	1052533	160.0	154.9	
69 Naphthalene	128	6.987	6.977	0.010	99	2751393	160.0	146.0	
71 4-Chloroaniline	127	7.078	7.062	0.016	98	1173661	160.0	157.3	
70 2,6-Dichlorophenol	162	7.084	7.068	0.016	95	899494	160.0	158.7	
73 Hexachlorobutadiene	225	7.164	7.153	0.011	96	749866	160.0	161.1	
78 Caprolactam	113	7.548	7.474	0.074	87	329678	160.0	170.2	M
79 4-Chloro-3-methylphenol	107	7.693	7.666	0.027	94	968898	160.0	167.4	
82 2-Methylnaphthalene	142	7.821	7.799	0.022	97	2095864	160.0	160.5	
83 1-Methylnaphthalene	142	7.938	7.912	0.026	99	1980851	160.0	166.3	
85 1,2,4,5-Tetrachlorobenzene	216	8.029	7.997	0.032	96	1191875	160.0	164.7	
84 Hexachlorocyclopentadiene	237	8.024	7.997	0.027	94	952872	160.0	161.8	
86 2,4,6-Trichlorophenol	196	8.168	8.141	0.027	92	758833	160.0	163.9	
87 2,4,5-Trichlorophenol	196	8.211	8.179	0.032	94	791095	160.0	162.7	
90 1,1'-Biphenyl	154	8.382	8.350	0.032	98	2483058	160.0	163.8	
91 2-Chloronaphthalene	162	8.392	8.355	0.037	99	1992902	160.0	166.1	
93 2-Nitroaniline	65	8.526	8.489	0.037	89	552882	160.0	164.3	
96 Dimethyl phthalate	163	8.766	8.729	0.037	99	2071483	160.0	157.5	
97 1,3-Dinitrobenzene	168	8.777	8.740	0.037	93	405663	160.0	167.4	
99 2,6-Dinitrotoluene	165	8.820	8.788	0.032	93	526368	160.0	163.2	
100 Acenaphthylene	152	8.868	8.836	0.032	100	2817969	160.0	165.6	
101 3-Nitroaniline	138	9.007	8.975	0.032	95	533905	160.0	164.9	
102 Acenaphthene	153	9.071	9.044	0.027	99	1737249	160.0	153.2	
103 2,4-Dinitrophenol	184	9.130	9.098	0.032	84	792665	320.0	338.6	
104 4-Nitrophenol	109	9.247	9.210	0.037	92	684116	320.0	335.0	
107 Dibenzofuran	168	9.274	9.253	0.021	97	2518088	160.0	152.4	
106 2,4-Dinitrotoluene	165	9.279	9.258	0.021	93	641033	160.0	156.7	
110 2,3,4,6-Tetrachlorophenol	232	9.424	9.413	0.011	94	653013	160.0	163.9	
112 Diethyl phthalate	149	9.584	9.568	0.016	99	2097649	160.0	162.7	
138 Hexadecane	57	9.621	9.616	0.005	96	1146187	160.0	161.8	
115 Fluorene	166	9.664	9.653	0.011	99	2130429	160.0	159.3	
116 4-Chlorophenyl phenyl ethe	204	9.680	9.669	0.011	97	1207108	160.0	160.2	
118 4-Nitroaniline	138	9.723	9.691	0.032	89	527199	160.0	160.9	
119 4,6-Dinitro-2-methylphenol	198	9.749	9.733	0.016	96	908223	320.0	329.2	
121 Diphenylamine	169	9.824	9.808	0.016	98	1598410	136.8	137.8	
120 N-Nitrosodiphenylamine	169	9.824	9.808	0.016	97	1598410	160.0	161.1	
122 Azobenzene	77	9.856	9.851	0.005	95	2051381	160.0	160.0	
123 1,2-Diphenylhydrazine	77	9.856	9.851	0.005	98	2051393	160.0	160.0	
130 4-Bromophenyl phenyl ether	248	10.214	10.209	0.005	94	755712	160.0	164.1	
131 Hexachlorobenzene	284	10.273	10.268	0.005	96	749253	160.0	161.7	
133 Atrazine	200	10.423	10.412	0.011	93	572878	160.0	154.6	
134 Pentachlorophenol	266	10.487	10.481	0.006	96	853731	320.0	304.5	
113 n-Octadecane	57	10.620	10.620	0.000	91	1125815	160.0	158.9	
141 Phenanthrene	178	10.684	10.684	0.000	99	2840041	160.0	147.8	
142 Anthracene	178	10.738	10.732	0.006	99	3113535	160.0	154.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
143 Carbazole	167	10.909	10.903	0.006	99	2736827	160.0	150.7	
145 Di-n-butyl phthalate	149	11.277	11.277	0.000	99	3266593	160.0	153.9	
152 Fluoranthene	202	11.817	11.811	0.006	99	3119193	160.0	139.1	
154 Benzidine	184	11.945	11.945	0.000	100	1154171	160.0	118.4	
155 Pyrene	202	12.015	12.009	0.006	99	3516089	160.0	146.0	
162 Butyl benzyl phthalate	149	12.597	12.597	0.000	99	1559780	160.0	160.4	
166 3,3'-Dichlorobenzidine	252	13.035	13.030	0.005	86	1369113	160.0	158.2	
167 Benzo[a]anthracene	228	13.051	13.046	0.005	96	3549520	160.0	157.2	
169 Chrysene	228	13.083	13.078	0.005	99	3290102	160.0	147.2	
172 Bis(2-ethylhexyl) phthalat	149	13.083	13.083	0.000	96	2164222	160.0	161.0	
168 Di-n-octyl phthalate	149	13.601	13.601	0.000	100	3607988	160.0	158.5	
174 Benzo[b]fluoranthene	252	13.911	13.906	0.005	99	3741737	160.0	155.1	
175 Benzo[k]fluoranthene	252	13.938	13.927	0.011	98	4015274	160.0	147.1	
177 Benzo[a]pyrene	252	14.157	14.151	0.006	99	3666537	160.0	155.7	
180 Indeno[1,2,3-cd]pyrene	276	15.044	15.033	0.011	94	4493118	160.0	155.8	
181 Dibenz(a,h)anthracene	278	15.054	15.038	0.016	96	3759361	160.0	154.9	
182 Benzo[g,h,i]perylene	276	15.284	15.268	0.016	99	3827891	160.0	154.7	
S 236 3 & 4 Methylphenol	108				0			149.6	
S 238 3-Methylphenol	1				0			149.6	
S 237 Total Cresols	1				0			300.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00525	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

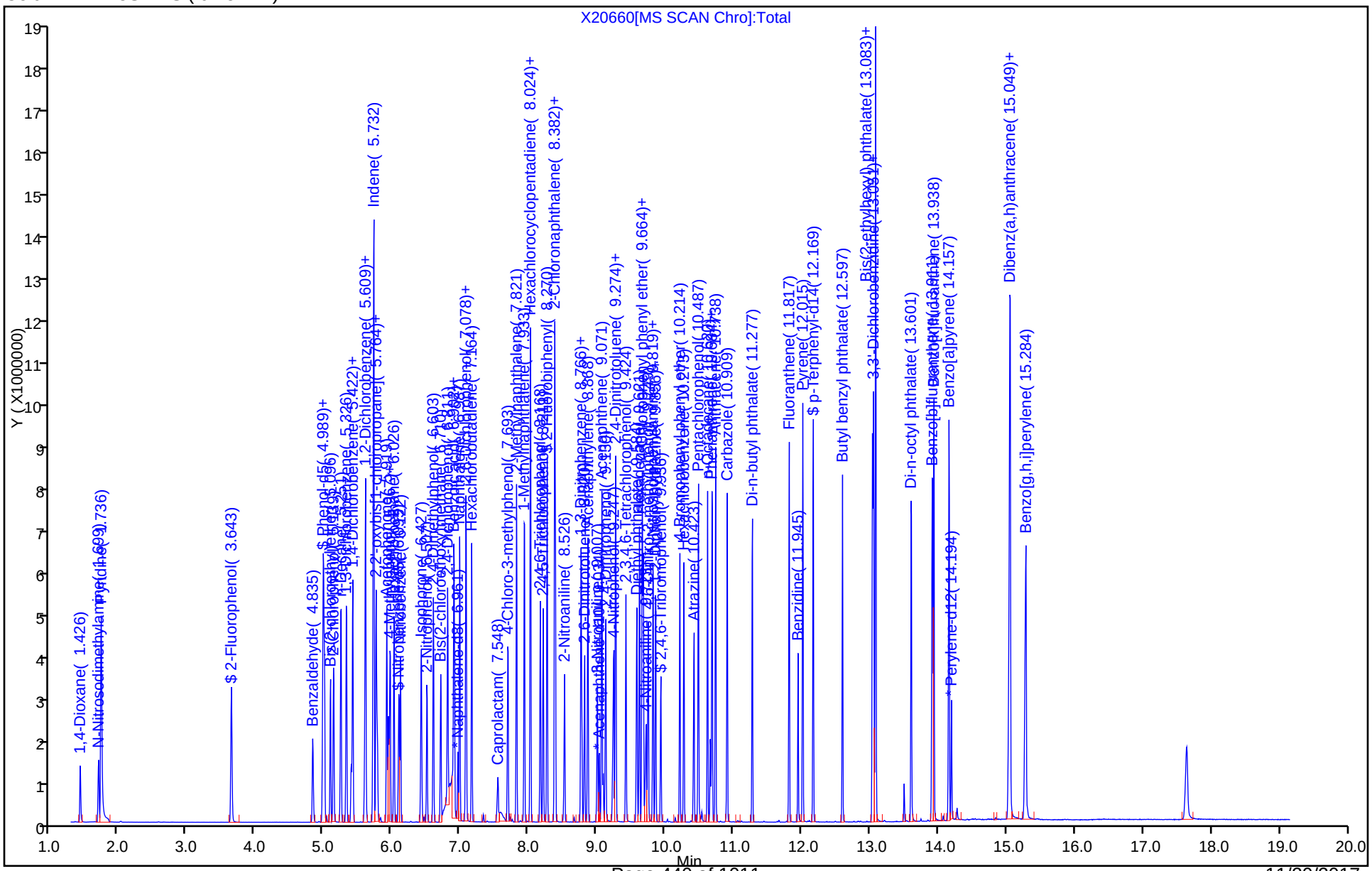
Report Date: 20-Oct-2017 12:19:58 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Injection Date:	19-Oct-2017 14:53:30	Instrument ID:	HP5973X	Operator ID:	DR
Lims ID:	IC - List1 160			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

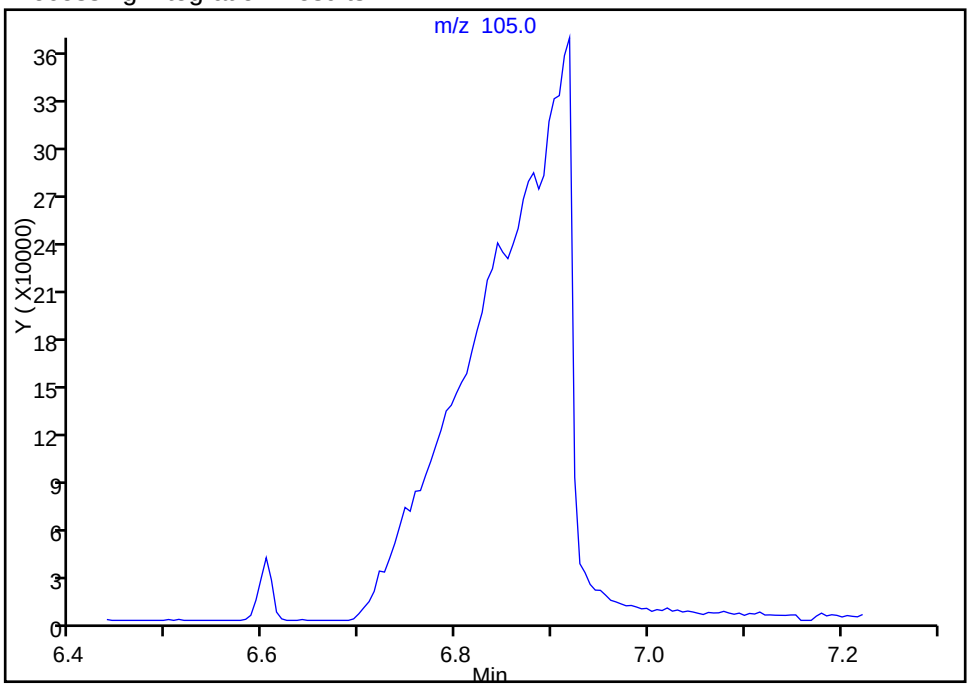
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D
Injection Date: 19-Oct-2017 14:53:30 Instrument ID: HP5973X
Lims ID: IC - List1 160
Client ID:
Operator ID: DR ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

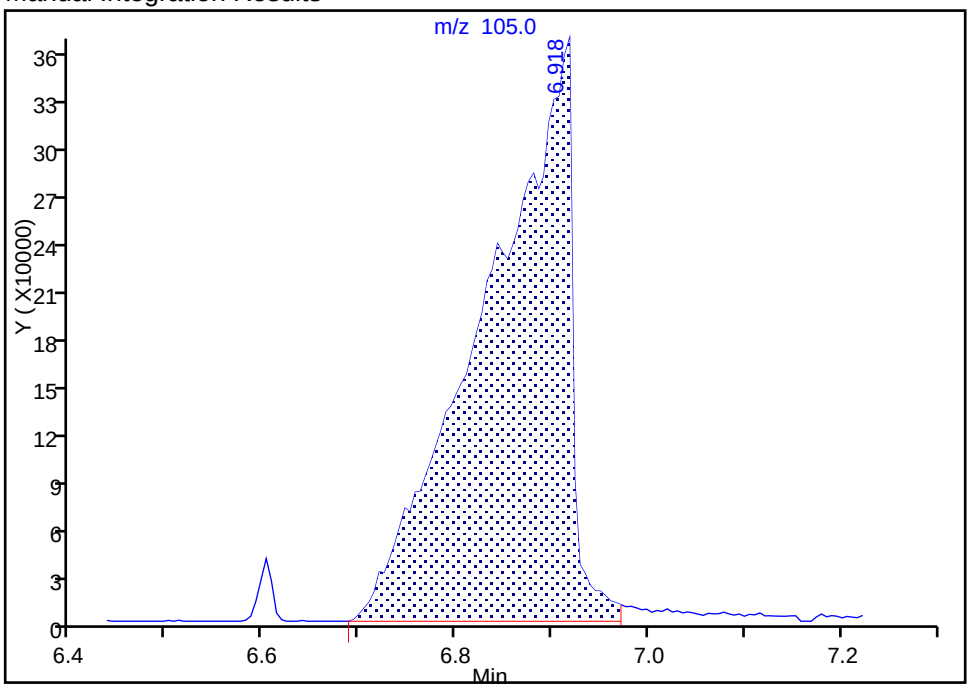
Not Detected
Expected RT: 6.81

Processing Integration Results



Manual Integration Results

RT: 6.92
Area: 2295308
Amount: 547.4416
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 15:21:10
Audit Action: Assigned Compound ID Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

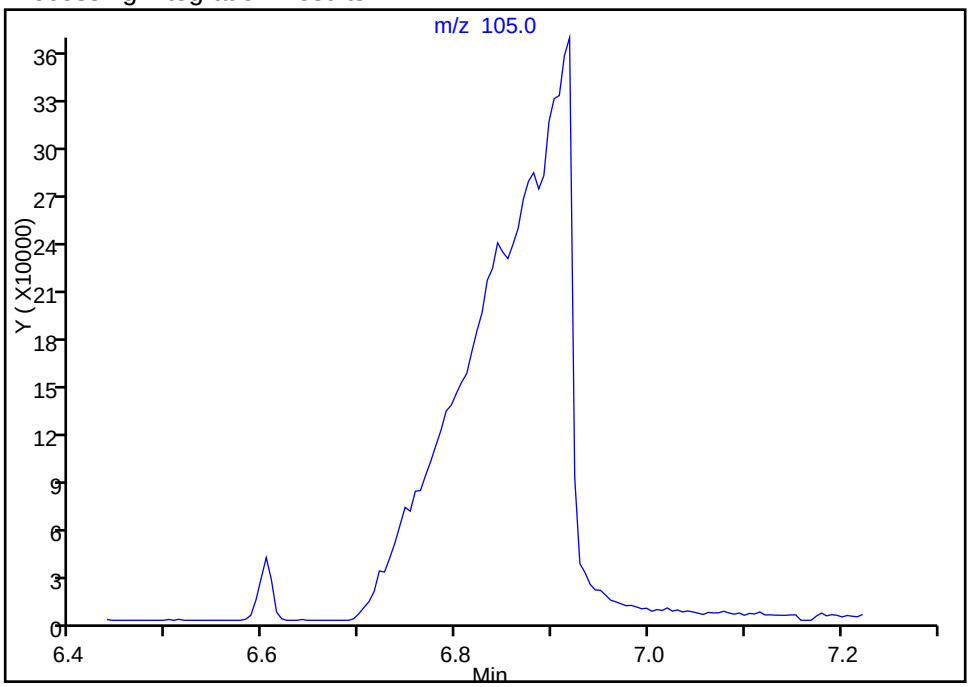
Injection Date:	19-Oct-2017 14:53:30	Instrument ID:	HP5973X		
Lims ID:	IC - List1 160				
Client ID:					
Operator ID:	DR	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

64 Benzoic acid, CAS: 65-85-0

Signal: 1

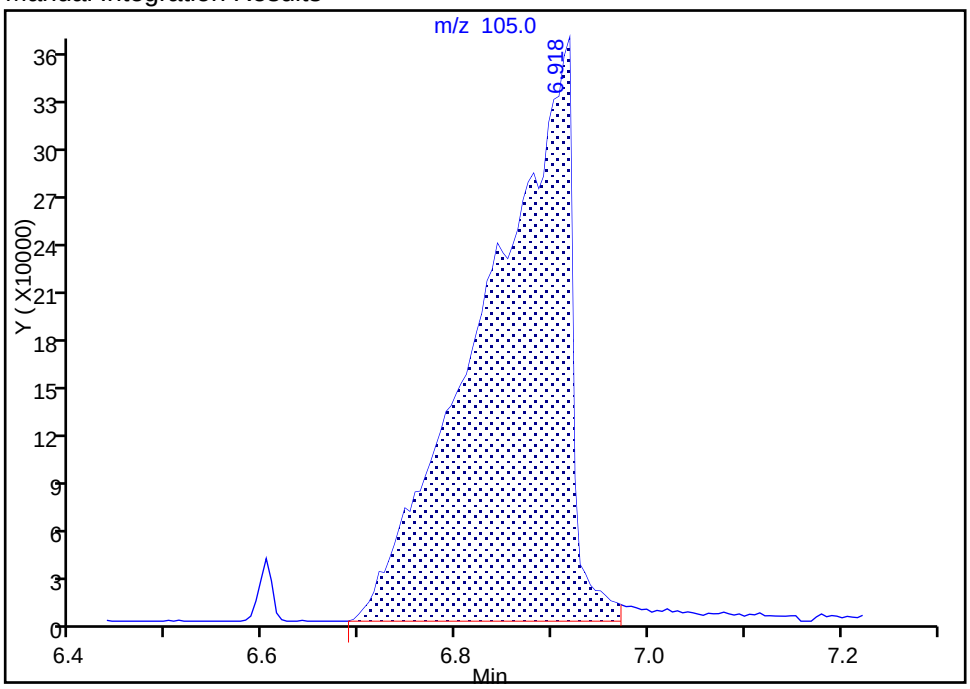
Processing Integration Results

Not Detected
Expected RT: 6.81



Manual Integration Results

RT: 6.92
Area: 2295308
Amount: 547.4416
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 15:32:15
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

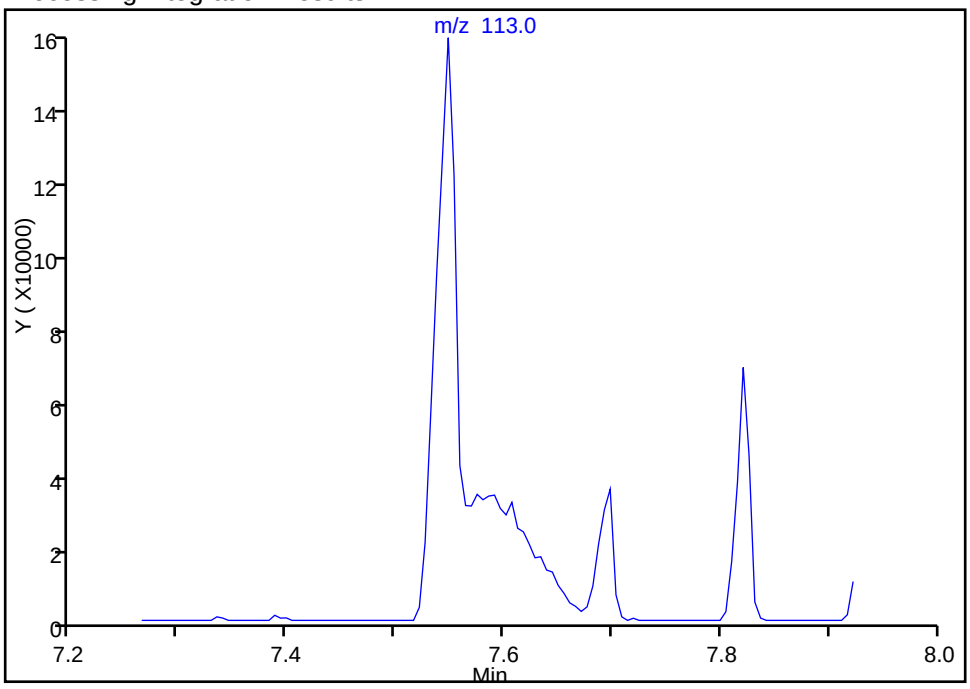
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D
Injection Date: 19-Oct-2017 14:53:30 Instrument ID: HP5973X
Lims ID: IC - List1 160
Client ID:
Operator ID: DR ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

78 Caprolactam, CAS: 105-60-2

Signal: 1

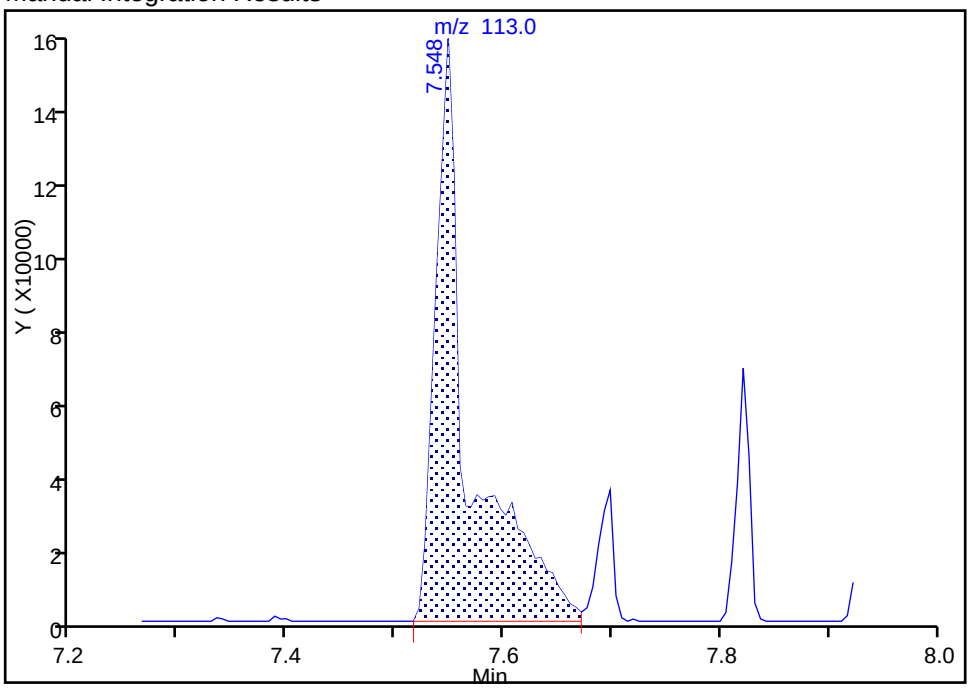
Not Detected
Expected RT: 7.47

Processing Integration Results



Manual Integration Results

RT: 7.55
Area: 329678
Amount: 170.2241
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 15:21:16
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

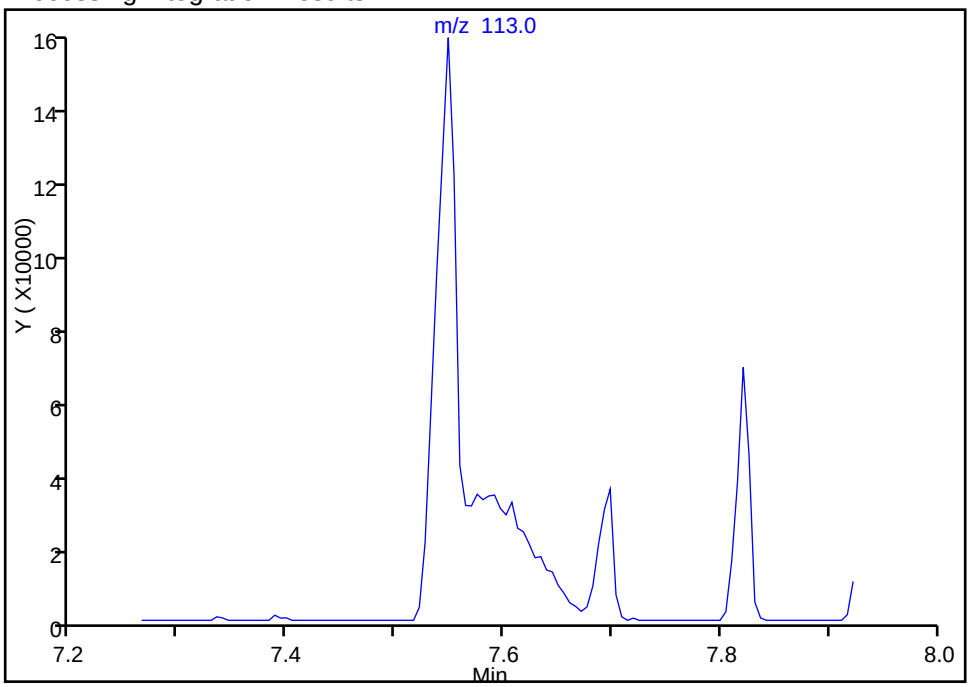
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D
Injection Date: 19-Oct-2017 14:53:30 Instrument ID: HP5973X
Lims ID: IC - List1 160
Client ID:
Operator ID: DR ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

78 Caprolactam, CAS: 105-60-2

Signal: 1

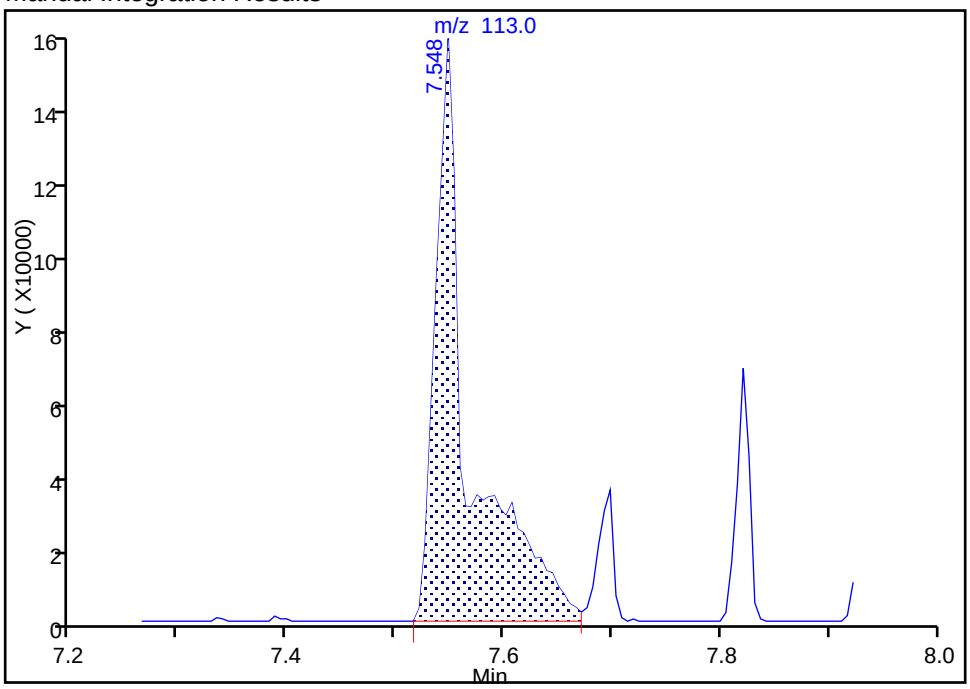
Not Detected
Expected RT: 7.47

Processing Integration Results



Manual Integration Results

RT: 7.55
Area: 329678
Amount: 170.2241
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 15:37:55
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

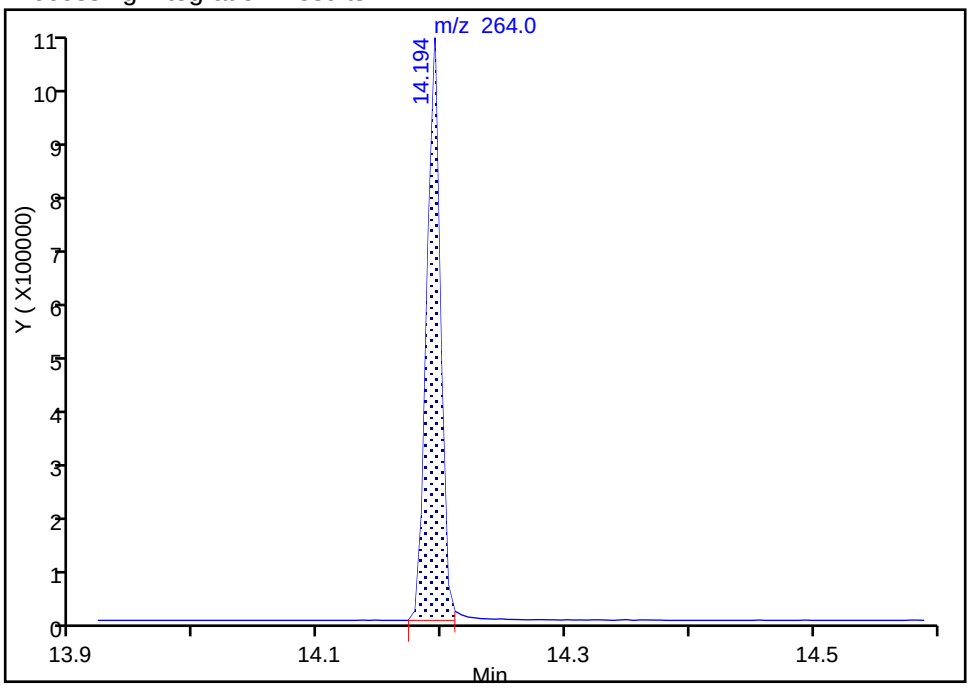
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D
Injection Date: 19-Oct-2017 14:53:30 Instrument ID: HP5973X
Lims ID: IC - List1 160
Client ID:
Operator ID: DR ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

* 6 Perylene-d12, CAS: 1520-96-3

Signal: 1

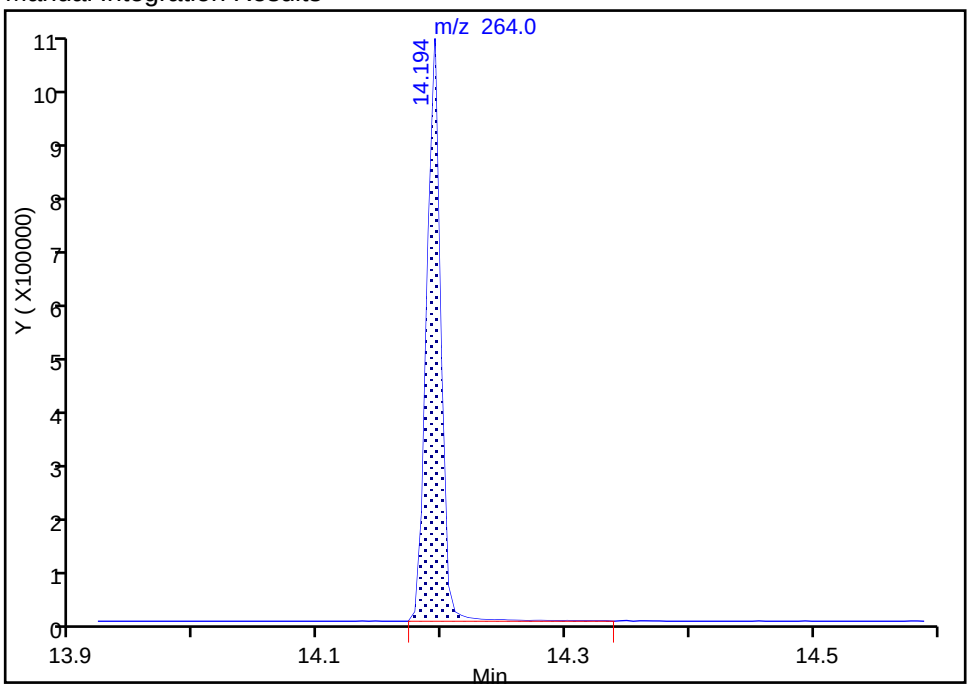
Processing Integration Results

RT: 14.19
Area: 823799
Amount: 40.000000
Amount Units: ng/uL



Manual Integration Results

RT: 14.19
Area: 839583
Amount: 40.000000
Amount Units: ng/uL



Reviewer: richardsd, 19-Oct-2017 15:22:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID (1): CCVIS 480-386804/4 Instrument ID (1): HP5973U

GC Column (1): RXI-5Sil MS(0 ID: 0.25(mm) Date Analyzed (1): 11/10/2017 16:59

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol	5.66	100.0
Benzaldehyde	6.70	100.0
Phenol-d5	6.73	100.0
Phenol	6.75	100.0
Bis(2-chloroethyl)ether	6.87	100.0
2-Chlorophenol	6.98	100.0
2-Methylphenol	7.47	100.0
bis (2-chloroisopropyl) ether	7.51	100.0
4-Methylphenol	7.64	100.0
N-Nitrosodi-n-propylamine	7.65	100.0
Acetophenone	7.68	100.0
Hexachloroethane	7.85	100.0
Nitrobenzene-d5	7.86	100.0
Nitrobenzene	7.88	100.0
Isophorone	8.16	100.0
2-Nitrophenol	8.27	100.0
2,4-Dimethylphenol	8.27	100.0
Bis(2-chloroethoxy)methane	8.38	100.0
2,4-Dichlorophenol	8.55	100.0
Naphthalene	8.76	100.0
4-Chloroaniline	8.79	100.0
Hexachlorobutadiene	8.90	100.0
Caprolactam	9.17	100.0
4-Chloro-3-methylphenol	9.34	100.0
2-Methylnaphthalene	9.58	100.0
Hexachlorocyclopentadiene	9.78	100.0
2,4,6-Trichlorophenol	9.89	100.0
2,4,5-Trichlorophenol	9.94	100.0
2-Fluorobiphenyl	9.98	100.0
Biphenyl	10.11	100.0
2-Chloronaphthalene	10.15	100.0
2-Nitroaniline	10.24	100.0
Dimethyl phthalate	10.41	100.0
2,6-Dinitrotoluene	10.49	100.0
Acenaphthylene	10.61	100.0
3-Nitroaniline	10.68	100.0
2,4-Dinitrophenol	10.79	100.0
Acenaphthene	10.80	100.0
4-Nitrophenol	10.83	100.0
2,4-Dinitrotoluene	10.92	100.0
Dibenzofuran	10.98	100.0
Diethyl phthalate	11.15	100.0
4-Chlorophenyl phenyl ether	11.31	100.0
4-Nitroaniline	11.33	100.0
Fluorene	11.34	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID (1): CCVIS 480-386804/4 Instrument ID (1): HP5973U

GC Column (1): RXI-5Sil MS(0 ID: 0.25(mm) Date Analyzed (1): 11/10/2017 16:59

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	11.36	100.0
N-Nitrosodiphenylamine	11.42	100.0
2,4,6-Tribromophenol	11.58	100.0
4-Bromophenyl phenyl ether	11.80	100.0
Hexachlorobenzene	11.90	100.0
Atrazine	11.91	100.0
Pentachlorophenol	12.07	100.0
Phenanthrene	12.29	100.0
Anthracene	12.33	100.0
Carbazole	12.46	100.0
Di-n-butyl phthalate	12.71	100.0
Fluoranthene	13.38	100.0
Pyrene	13.59	100.0
p-Terphenyl-d14	13.67	100.0
Butyl benzyl phthalate	14.06	100.0
Bis(2-ethylhexyl) phthalate	14.55	100.0
3,3'-Dichlorobenzidine	14.62	100.0
Benzo(a)anthracene	14.70	100.0
Chrysene	14.74	100.0
Di-n-octyl phthalate	15.21	100.0
Benzo(b)fluoranthene	15.94	32.40
Benzo(k)fluoranthene	15.98	100.0
Benzo(a)pyrene	16.41	100.0
Dibenz(a,h)anthracene	18.31	100.0
Indeno(1,2,3-cd)pyrene	18.32	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID (1): CCVIS 480-387056/4 Instrument ID (1): HP5973U

GC Column (1): RXI-5Sil MS(0 ID: 0.25(mm) Date Analyzed (1): 11/13/2017 15:43

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol	5.66	100.0
Benzaldehyde	6.70	100.0
Phenol-d5	6.73	100.0
Phenol	6.75	100.0
Bis(2-chloroethyl)ether	6.87	100.0
2-Chlorophenol	6.98	100.0
2-Methylphenol	7.47	100.0
bis (2-chloroisopropyl) ether	7.50	100.0
4-Methylphenol	7.64	100.0
N-Nitrosodi-n-propylamine	7.65	100.0
Acetophenone	7.68	100.0
Hexachloroethane	7.85	100.0
Nitrobenzene-d5	7.86	100.0
Nitrobenzene	7.88	100.0
Isophorone	8.16	100.0
2-Nitrophenol	8.27	100.0
2,4-Dimethylphenol	8.27	100.0
Bis(2-chloroethoxy)methane	8.38	100.0
2,4-Dichlorophenol	8.55	100.0
Naphthalene	8.76	100.0
4-Chloroaniline	8.79	100.0
Hexachlorobutadiene	8.90	100.0
Caprolactam	9.17	100.0
4-Chloro-3-methylphenol	9.34	100.0
2-Methylnaphthalene	9.58	100.0
Hexachlorocyclopentadiene	9.78	100.0
2,4,6-Trichlorophenol	9.90	100.0
2,4,5-Trichlorophenol	9.94	100.0
2-Fluorobiphenyl	9.98	100.0
Biphenyl	10.11	100.0
2-Chloronaphthalene	10.15	100.0
2-Nitroaniline	10.23	100.0
Dimethyl phthalate	10.41	100.0
2,6-Dinitrotoluene	10.49	100.0
Acenaphthylene	10.61	100.0
3-Nitroaniline	10.68	100.0
2,4-Dinitrophenol	10.79	100.0
Acenaphthene	10.80	100.0
4-Nitrophenol	10.83	100.0
2,4-Dinitrotoluene	10.93	100.0
Dibenzofuran	10.98	100.0
Diethyl phthalate	11.15	100.0
4-Chlorophenyl phenyl ether	11.31	100.0
4-Nitroaniline	11.32	100.0
Fluorene	11.34	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID (1): CCVIS 480-387056/4 Instrument ID (1): HP5973U

GC Column (1): RXI-5Sil MS(0 ID: 0.25(mm) Date Analyzed (1): 11/13/2017 15:43

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	11.36	100.0
N-Nitrosodiphenylamine	11.42	100.0
2,4,6-Tribromophenol	11.58	100.0
4-Bromophenyl phenyl ether	11.80	100.0
Hexachlorobenzene	11.90	100.0
Atrazine	11.91	100.0
Pentachlorophenol	12.07	100.0
Phenanthrene	12.29	100.0
Anthracene	12.33	100.0
Carbazole	12.46	100.0
Di-n-butyl phthalate	12.71	100.0
Fluoranthene	13.38	100.0
Pyrene	13.59	100.0
p-Terphenyl-d14	13.67	100.0
Butyl benzyl phthalate	14.06	100.0
Bis(2-ethylhexyl) phthalate	14.55	100.0
3,3'-Dichlorobenzidine	14.62	100.0
Benzo(a)anthracene	14.70	100.0
Chrysene	14.74	100.0
Di-n-octyl phthalate	15.21	100.0
Benzo(b)fluoranthene	15.94	31.50
Benzo(k)fluoranthene	15.98	100.0
Benzo(a)pyrene	16.41	100.0
Dibenz(a,h)anthracene	18.31	100.0
Indeno(1,2,3-cd)pyrene	18.32	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID (1): CCVIS 480-387796/4 Instrument ID (1): HP5973X

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 11/16/2017 12:54

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol	3.16	100.0
Benzaldehyde	4.42	100.0
Phenol-d5	4.61	100.0
Phenol	4.62	100.0
Bis(2-chloroethyl)ether	4.70	100.0
2-Chlorophenol	4.74	100.0
bis (2-chloroisopropyl) ether	5.41	100.0
2-Methylphenol	5.41	100.0
Acetophenone	5.55	100.0
N-Nitrosodi-n-propylamine	5.58	100.0
4-Methylphenol	5.62	100.0
Hexachloroethane	5.65	100.0
Nitrobenzene-d5	5.73	100.0
Nitrobenzene	5.75	100.0
Isophorone	6.06	100.0
2-Nitrophenol	6.15	100.0
2,4-Dimethylphenol	6.26	100.0
Bis(2-chloroethoxy)methane	6.36	100.0
2,4-Dichlorophenol	6.46	100.0
Naphthalene	6.62	100.0
4-Chloroaniline	6.72	100.0
Hexachlorobutadiene	6.80	100.0
Caprolactam	7.14	100.0
4-Chloro-3-methylphenol	7.35	100.0
2-Methylnaphthalene	7.45	100.0
Hexachlorocyclopentadiene	7.65	100.0
2,4,6-Trichlorophenol	7.81	100.0
2,4,5-Trichlorophenol	7.86	100.0
2-Fluorobiphenyl	7.91	100.0
2-Chloronaphthalene	8.02	100.0
Biphenyl	8.02	100.0
2-Nitroaniline	8.17	100.0
Dimethyl phthalate	8.41	100.0
2,6-Dinitrotoluene	8.46	100.0
Acenaphthylene	8.50	100.0
3-Nitroaniline	8.65	100.0
Acenaphthene	8.71	100.0
2,4-Dinitrophenol	8.78	100.0
4-Nitrophenol	8.91	100.0
Dibenzofuran	8.91	100.0
2,4-Dinitrotoluene	8.93	100.0
Diethyl phthalate	9.25	100.0
Fluorene	9.30	100.0
4-Chlorophenyl phenyl ether	9.34	100.0
4-Nitroaniline	9.36	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID (1): CCVIS 480-387796/4 Instrument ID (1): HP5973X

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 11/16/2017 12:54

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	9.41	100.0
N-Nitrosodiphenylamine	9.48	100.0
2,4,6-Tribromophenol	9.59	100.0
4-Bromophenyl phenyl ether	9.89	100.0
Hexachlorobenzene	9.95	100.0
Atrazine	10.12	100.0
Pentachlorophenol	10.17	100.0
Phenanthrene	10.37	100.0
Anthracene	10.42	100.0
Carbazole	10.60	100.0
Di-n-butyl phthalate	10.99	100.0
Fluoranthene	11.52	100.0
Pyrene	11.71	100.0
p-Terphenyl-d14	11.88	100.0
Butyl benzyl phthalate	12.32	100.0
3,3'-Dichlorobenzidine	12.75	100.0
Benzo(a)anthracene	12.75	100.0
Chrysene	12.78	100.0
Bis(2-ethylhexyl) phthalate	12.81	100.0
Di-n-octyl phthalate	13.32	100.0
Benzo(b)fluoranthene	13.60	28.90
Benzo(k)fluoranthene	13.62	100.0
Benzo(a)pyrene	13.84	100.0
Indeno(1,2,3-cd)pyrene	14.64	100.0
Dibenz(a,h)anthracene	14.65	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-386804/4 Calibration Date: 11/10/2017 16:59

Instrument ID: HP5973U Calib Start Date: 10/29/2017 17:50

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 10/29/2017 20:04

Lab File ID: U328780.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6552	0.6062	0.0100	46300	50000	-7.5	20.0
N-Nitrosodimethylamine	Ave	1.003	1.138	0.0100	56700	50000	13.5	50.0
Pyridine	Ave	1.615	1.584	0.0100	98100	100000	-1.9	50.0
Benzaldehyde	Ave	1.142	0.8986	0.0100	39300	50000	-21.3	50.0
Phenol	Ave	1.720	1.699	0.8000	49400	50000	-1.2	20.0
Aniline	Ave	2.132	2.111	0.0100	49500	50000	-1.0	20.0
Bis(2-chloroethyl)ether	Ave	1.415	1.394	0.7000	49300	50000	-1.5	20.0
2-Chlorophenol	Ave	1.296	1.279	0.8000	49300	50000	-1.3	20.0
n-Decane	Ave	2.180	2.136	0.0100	49000	50000	-2.0	20.0
1,3-Dichlorobenzene	Ave	1.597	1.620	0.0100	50700	50000	1.4	20.0
1,4-Dichlorobenzene	Ave	1.605	1.614	0.0100	50300	50000	0.6	20.0
Benzyl alcohol	Ave	0.8799	0.8594	0.0100	48800	50000	-2.3	20.0
1,2-Dichlorobenzene	Ave	1.509	1.526	0.0100	50600	50000	1.2	20.0
2-Methylphenol	Ave	1.195	1.204	0.7000	50400	50000	0.8	20.0
bis (2-chloroisopropyl) ether	Ave	2.606	2.748	0.0100	52700	50000	5.5	20.0
Indene	Ave	2.298	2.357	0.0100	154000	150000	2.6	20.0
4-Methylphenol	Ave	1.244	1.260	0.6000	50700	50000	1.3	20.0
N-Nitrosodi-n-propylamine	Ave	1.025	1.079	0.5000	52600	50000	5.3	20.0
Acetophenone	Ave	1.751	1.841	0.0100	52600	50000	5.1	20.0
Hexachloroethane	Ave	0.5779	0.6033	0.3000	52200	50000	4.4	20.0
Nitrobenzene	Ave	0.4011	0.3994	0.2000	49800	50000	-0.4	20.0
Isophorone	Ave	0.6994	0.6832	0.4000	48800	50000	-2.3	20.0
2-Nitrophenol	Lin1		0.1745	0.1000	49500	50000	-0.9	20.0
2,4-Dimethylphenol	Ave	0.3591	0.3454	0.2000	48100	50000	-3.8	20.0
Benzoic acid	Lin1		0.1770	0.0100	123000	150000	-18.2	50.0
Bis(2-chloroethoxy)methane	Ave	0.4355	0.4232	0.3000	48600	50000	-2.8	20.0
2,4-Dichlorophenol	Ave	0.3060	0.3057	0.2000	49900	50000	-0.1	20.0
1,2,4-Trichlorobenzene	Ave	0.3634	0.3618	0.0100	49800	50000	-0.4	20.0
Naphthalene	Ave	0.999	0.9751	0.7000	48800	50000	-2.3	20.0
4-Chloroaniline	Ave	0.4201	0.4314	0.0100	51300	50000	2.7	20.0
2,6-Dichlorophenol	Ave	0.3040	0.3020	0.0100	49700	50000	-0.7	20.0
Hexachlorobutadiene	Ave	0.2327	0.2315	0.0100	49800	50000	-0.5	20.0
Caprolactam	Lin1		0.1061	0.0100	51300	50000	2.6	50.0
4-Chloro-3-methylphenol	Ave	0.2880	0.2833	0.2000	49200	50000	-1.6	20.0
2-Methylnaphthalene	Ave	0.6813	0.6959	0.4000	51100	50000	2.1	20.0
1-Methylnaphthalene	Ave	0.6535	0.6602	0.0100	50500	50000	1.0	20.0
Hexachlorocyclopentadiene	Lin1		0.5124	0.0500	48900	50000	-2.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7289	0.7202	0.0100	49400	50000	-1.2	20.0
2,4,6-Trichlorophenol	Ave	0.4456	0.4221	0.2000	47400	50000	-5.3	20.0
2,4,5-Trichlorophenol	Lin1		0.4638	0.2000	47600	50000	-4.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-386804/4 Calibration Date: 11/10/2017 16:59

Instrument ID: HP5973U Calib Start Date: 10/29/2017 17:50

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 10/29/2017 20:04

Lab File ID: U328780.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.672	1.660	0.0100	49600	50000	-0.7	20.0
2-Chloronaphthalene	Ave	1.353	1.331	0.8000	49200	50000	-1.6	20.0
2-Nitroaniline	Lin1		0.4284	0.0100	49900	50000	-0.2	20.0
Dimethyl phthalate	Ave	1.504	1.480	0.0100	49200	50000	-1.6	20.0
1,3-Dinitrobenzene	Lin1		0.1306	0.0100	53800	50000	7.7	20.0
2,6-Dinitrotoluene	Lin1		0.3543	0.2000	50400	50000	0.8	20.0
Acenaphthylene	Ave	1.892	1.879	0.9000	49700	50000	-0.7	20.0
3-Nitroaniline	Lin1		0.3461	0.0100	48600	50000	-2.9	20.0
2,4-Dinitrophenol	Lin1		0.1750	0.0100	98300	100000	-1.7	20.0
Acenaphthene	Ave	1.297	1.282	0.0100	49400	50000	-1.1	20.0
4-Nitrophenol	Lin1		0.1899	0.0100	90500	100000	-9.5	20.0
2,4-Dinitrotoluene	Lin1		0.4706	0.0100	50900	50000	1.8	20.0
Dibenzofuran	Ave	1.861	1.825	0.8000	49000	50000	-1.9	20.0
2,3,4,6-Tetrachlorophenol	Lin1		0.4038	0.0100	46300	50000	-7.4	20.0
Diethyl phthalate	Ave	1.464	1.439	0.0100	49100	50000	-1.7	20.0
Hexadecane	Ave	1.223	1.236	0.0100	50500	50000	1.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.8234	0.8108	0.4000	49200	50000	-1.5	20.0
4-Nitroaniline	Lin1		0.3771	0.0100	48400	50000	-3.1	20.0
Fluorene	Ave	1.524	1.507	0.9000	49400	50000	-1.1	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1259	0.0100	102000	100000	2.2	20.0
Diphenylamine	Ave	0.6478	0.6557	0.0100	43300	42800	1.2	20.0
N-Nitrosodiphenylamine	Ave	0.5539	0.5606	0.0100	50600	50000	1.2	20.0
1,2-Diphenylhydrazine	Ave	0.7724	0.8038	0.0100	52000	50000	4.1	20.0
trans-Azobenzene	Ave	0.7724	0.8038	0.0100	52000	50000	4.1	20.0
4-Bromophenyl phenyl ether	Ave	0.2597	0.2638	0.1000	50800	50000	1.6	20.0
Hexachlorobenzene	Ave	0.2709	0.2718	0.1000	50200	50000	0.3	20.0
Atrazine	Ave	0.4309	0.4359	0.0100	50600	50000	1.2	20.0
n-Octadecane	Ave	0.6007	0.6333	0.0100	52700	50000	5.4	20.0
Pentachlorophenol	Lin1		0.1490	0.0500	89700	100000	-10.3	20.0
Phenanthrene	Ave	1.154	1.160	0.7000	50300	50000	0.5	20.0
Anthracene	Ave	1.191	1.192	0.7000	50000	50000	0.0	20.0
Carbazole	Ave	1.054	1.038	0.0100	49200	50000	-1.6	20.0
Di-n-butyl phthalate	Ave	1.194	1.177	0.0100	49300	50000	-1.4	20.0
Fluoranthene	Ave	1.322	1.248	0.6000	47200	50000	-5.6	20.0
Benzidine	Ave	0.5221	0.4100	0.0100	39300	50000	-21.5	50.0
Pyrene	Ave	0.8953	1.037	0.6000	57900	50000	15.8	20.0
Butyl benzyl phthalate	Ave	0.3973	0.4583	0.0100	57700	50000	15.3	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5434	0.6175	0.0100	56800	50000	13.6	20.0
3,3'-Dichlorobenzidine	Ave	0.4601	0.4069	0.0100	44200	50000	-11.6	50.0
Benzo(a)anthracene	Ave	1.148	1.171	0.8000	51000	50000	1.9	20.0
Chrysene	Ave	1.108	1.135	0.7000	51200	50000	2.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-386804/4 Calibration Date: 11/10/2017 16:59

Instrument ID: HP5973U Calib Start Date: 10/29/2017 17:50

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 10/29/2017 20:04

Lab File ID: U328780.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Ave	0.996	1.023	0.0100	51400	50000	2.7	20.0
Benzo(b)fluoranthene	Ave	1.173	1.165	0.7000	49700	50000	-0.7	20.0
Benzo(k)fluoranthene	Ave	1.203	1.317	0.7000	54700	50000	9.5	20.0
Benzo(a)pyrene	Ave	1.140	1.164	0.7000	51000	50000	2.0	20.0
Dibenz(a,h)anthracene	Ave	1.081	1.191	0.4000	55100	50000	10.2	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.273	1.412	0.5000	55500	50000	10.9	20.0
Benzo(g,h,i)perylene	Ave	1.006	1.188	0.5000	59100	50000	18.1	20.0
2-Fluorophenol	Ave	1.339	1.247	0.0100	46600	50000	-6.8	20.0
Phenol-d5	Ave	1.646	1.602	0.0100	48700	50000	-2.7	20.0
Nitrobenzene-d5	Ave	0.4349	0.4404	0.0100	50600	50000	1.3	20.0
2-Fluorobiphenyl	Ave	1.560	1.506	0.0100	48300	50000	-3.4	20.0
2,4,6-Tribromophenol	Lin1		0.1211	0.0100	46500	50000	-7.0	20.0
p-Terphenyl-d14	Ave	0.7201	0.8368	0.0100	58100	50000	16.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328780.D
Lims ID: CCVIS - List1 50
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Nov-2017 16:59:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0067178-004
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 13-Nov-2017 14:27:13 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: richardsd Date: 13-Nov-2017 11:10:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	96	76286	40.0	40.0	
* 2 Naphthalene-d8	136	8.739	8.739	0.000	99	295060	40.0	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	0.000	97	154807	40.0	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	97	304133	40.0	40.0	
* 5 Chrysene-d12	240	14.712	14.712	0.000	96	376967	40.0	40.0	
* 6 Perylene-d12	264	16.490	16.490	0.000	99	356609	40.0	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	95	118930	50.0	46.6	
$ 8 Phenol-d5	99	6.730	6.730	0.000	95	152759	50.0	48.7	
$ 9 Nitrobenzene-d5	82	7.863	7.863	0.000	95	162430	50.0	50.6	
$ 10 2-Fluorobiphenyl	172	9.984	9.984	0.000	99	291399	50.0	48.3	
$ 11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	95	46024	50.0	46.5	
$ 12 p-Terphenyl-d14	244	13.670	13.670	0.000	99	394290	50.0	58.1	
23 1,4-Dioxane	88	3.418	3.418	0.000	91	57807	50.0	46.3	
24 N-Nitrosodimethylamine	42	3.840	3.840	0.000	83	108556	50.0	56.7	
25 Pyridine	52	3.942	3.942	0.000	79	302174	100.0	98.1	
32 Benzaldehyde	77	6.703	6.703	0.000	90	85691	50.0	39.3	
33 Phenol	94	6.746	6.746	0.000	97	161968	50.0	49.4	
34 Aniline	93	6.821	6.821	0.000	95	201281	50.0	49.5	
35 Bis(2-chloroethyl)ether	93	6.869	6.869	0.000	92	132900	50.0	49.3	
37 2-Chlorophenol	128	6.981	6.981	0.000	96	121944	50.0	49.3	
38 n-Decane	57	7.003	7.003	0.000	93	203721	50.0	49.0	
39 1,3-Dichlorobenzene	146	7.168	7.168	0.000	97	154483	50.0	50.7	
40 1,4-Dichlorobenzene	146	7.248	7.248	0.000	93	153911	50.0	50.3	
41 Benzyl alcohol	108	7.350	7.350	0.000	89	81947	50.0	48.8	
42 1,2-Dichlorobenzene	146	7.435	7.435	0.000	96	145536	50.0	50.6	
43 2-Methylphenol	108	7.467	7.467	0.000	98	114816	50.0	50.4	
44 2,2'-oxybis[1-chloropropan	45	7.505	7.505	0.000	92	262066	50.0	52.7	
45 Indene	115	7.537	7.537	0.000	90	674226	150.0	153.9	
46 4-Methylphenol	108	7.638	7.638	0.000	93	120182	50.0	50.7	
47 N-Nitrosodi-n-propylamine	70	7.654	7.654	0.000	94	102876	50.0	52.6	
49 Acetophenone	105	7.676	7.676	0.000	91	175528	50.0	52.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.847	7.847	0.000	91	57526	50.0	52.2	
54 Nitrobenzene	77	7.884	7.884	0.000	95	147316	50.0	49.8	
56 Isophorone	82	8.157	8.157	0.000	97	251961	50.0	48.8	
59 2-Nitrophenol	139	8.269	8.269	0.000	95	64343	50.0	49.5	
60 2,4-Dimethylphenol	107	8.274	8.274	0.000	92	127391	50.0	48.1	
64 Benzoic acid	105	8.370	8.370	0.000	92	195806	150.0	122.7	
62 Bis(2-chloroethoxy)methane	93	8.381	8.381	0.000	94	156103	50.0	48.6	
67 2,4-Dichlorophenol	162	8.547	8.547	0.000	95	112764	50.0	49.9	
68 1,2,4-Trichlorobenzene	180	8.659	8.659	0.000	93	133445	50.0	49.8	
70 Naphthalene	128	8.760	8.760	0.000	98	359624	50.0	48.8	
72 4-Chloroaniline	127	8.792	8.792	0.000	95	159120	50.0	51.3	
73 2,6-Dichlorophenol	162	8.814	8.814	0.000	96	111399	50.0	49.7	
74 Hexachlorobutadiene	225	8.904	8.904	0.000	93	85384	50.0	49.8	
76 Caprolactam	113	9.172	9.172	0.000	73	39123	50.0	51.3	
80 4-Chloro-3-methylphenol	107	9.337	9.337	0.000	96	104484	50.0	49.2	
83 2-Methylnaphthalene	142	9.578	9.578	0.000	92	256654	50.0	51.1	
85 1-Methylnaphthalene	142	9.700	9.700	0.000	94	243482	50.0	50.5	
86 Hexachlorocyclopentadiene	237	9.775	9.775	0.000	95	99152	50.0	48.9	
87 1,2,4,5-Tetrachlorobenzene	216	9.781	9.781	0.000	97	139358	50.0	49.4	
89 2,4,6-Trichlorophenol	196	9.893	9.893	0.000	93	81676	50.0	47.4	
91 2,4,5-Trichlorophenol	196	9.941	9.941	0.000	96	89749	50.0	47.6	
94 1,1'-Biphenyl	154	10.106	10.106	0.000	96	321160	50.0	49.6	
95 2-Chloronaphthalene	162	10.149	10.149	0.000	96	257599	50.0	49.2	
98 2-Nitroaniline	65	10.235	10.235	0.000	79	82907	50.0	49.9	
102 Dimethyl phthalate	163	10.411	10.411	0.000	98	286397	50.0	49.2	
103 1,3-Dinitrobenzene	168	10.454	10.454	0.000	85	48180	50.0	53.8	
104 2,6-Dinitrotoluene	165	10.486	10.486	0.000	93	68559	50.0	50.4	
105 Acenaphthylene	152	10.614	10.614	0.000	98	363642	50.0	49.7	
106 3-Nitroaniline	138	10.678	10.678	0.000	90	66973	50.0	48.6	
107 2,4-Dinitrophenol	184	10.790	10.790	0.000	82	67742	100.0	98.3	
108 Acenaphthene	153	10.801	10.801	0.000	96	248066	50.0	49.4	
109 4-Nitrophenol	109	10.833	10.833	0.000	96	73474	100.0	90.5	
111 2,4-Dinitrotoluene	165	10.924	10.924	0.000	93	91064	50.0	50.9	
112 Dibenzofuran	168	10.983	10.983	0.000	97	353182	50.0	49.0	
116 2,3,4,6-Tetrachlorophenol	232	11.100	11.100	0.000	71	78136	50.0	46.3	
118 Diethyl phthalate	149	11.154	11.154	0.000	98	278491	50.0	49.1	
119 Hexadecane	57	11.164	11.164	0.000	92	239088	50.0	50.5	
121 4-Chlorophenyl phenyl ethe	204	11.308	11.308	0.000	91	156897	50.0	49.2	
122 4-Nitroaniline	138	11.325	11.325	0.000	84	72978	50.0	48.4	
123 Fluorene	166	11.335	11.335	0.000	94	291568	50.0	49.4	
125 4,6-Dinitro-2-methylphenol	198	11.357	11.357	0.000	86	95700	100.0	102.2	
127 N-Nitrosodiphenylamine	169	11.421	11.421	0.000	65	213137	50.0	50.6	
128 Diphenylamine	169	11.421	11.421	0.000	93	213137	42.8	43.3	
130 Azobenzene	77	11.469	11.469	0.000	97	305579	50.0	52.0	
129 1,2-Diphenylhydrazine	77	11.469	11.469	0.000	96	305579	50.0	52.0	
137 4-Bromophenyl phenyl ether	248	11.800	11.800	0.000	66	100283	50.0	50.8	
139 Hexachlorobenzene	284	11.901	11.901	0.000	95	103337	50.0	50.2	
141 Atrazine	200	11.912	11.912	0.000	92	84355	50.0	50.6	
144 n-Octadecane	57	12.062	12.062	0.000	92	240768	50.0	52.7	
143 Pentachlorophenol	266	12.072	12.072	0.000	94	113291	100.0	89.7	
150 Phenanthrene	178	12.286	12.286	0.000	97	440988	50.0	50.3	
151 Anthracene	178	12.329	12.329	0.000	96	453302	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.457	12.457	0.000	97	394467	50.0	49.2	
155 Di-n-butyl phthalate	149	12.708	12.708	0.000	99	447558	50.0	49.3	
162 Fluoranthene	202	13.376	13.376	0.000	98	474612	50.0	47.2	
164 Benzidine	184	13.445	13.445	0.000	99	193194	50.0	39.3	M
165 Pyrene	202	13.590	13.590	0.000	97	488579	50.0	57.9	
172 Butyl benzyl phthalate	149	14.060	14.060	0.000	98	215953	50.0	57.7	
178 Bis(2-ethylhexyl) phthalat	149	14.551	14.551	0.000	97	290950	50.0	56.8	
179 3,3'-Dichlorobenzidine	252	14.615	14.615	0.000	73	191745	50.0	44.2	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	97	551591	50.0	51.0	
182 Chrysene	228	14.738	14.738	0.000	96	534717	50.0	51.2	
183 Di-n-octyl phthalate	149	15.208	15.208	0.000	99	481883	50.0	51.4	
185 Benzo[b]fluoranthene	252	15.940	15.940	0.000	96	519297	50.0	49.7	
187 Benzo[k]fluoranthene	252	15.978	15.978	0.000	97	587258	50.0	54.7	
190 Benzo[a]pyrene	252	16.410	16.410	0.000	76	518730	50.0	51.0	
193 Dibenz(a,h)anthracene	278	18.312	18.312	0.000	90	530916	50.0	55.1	
194 Indeno[1,2,3-cd]pyrene	276	18.323	18.323	0.000	97	629479	50.0	55.5	
195 Benzo[g,h,i]perylene	276	18.894	18.894	0.000	98	529716	50.0	59.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00522	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

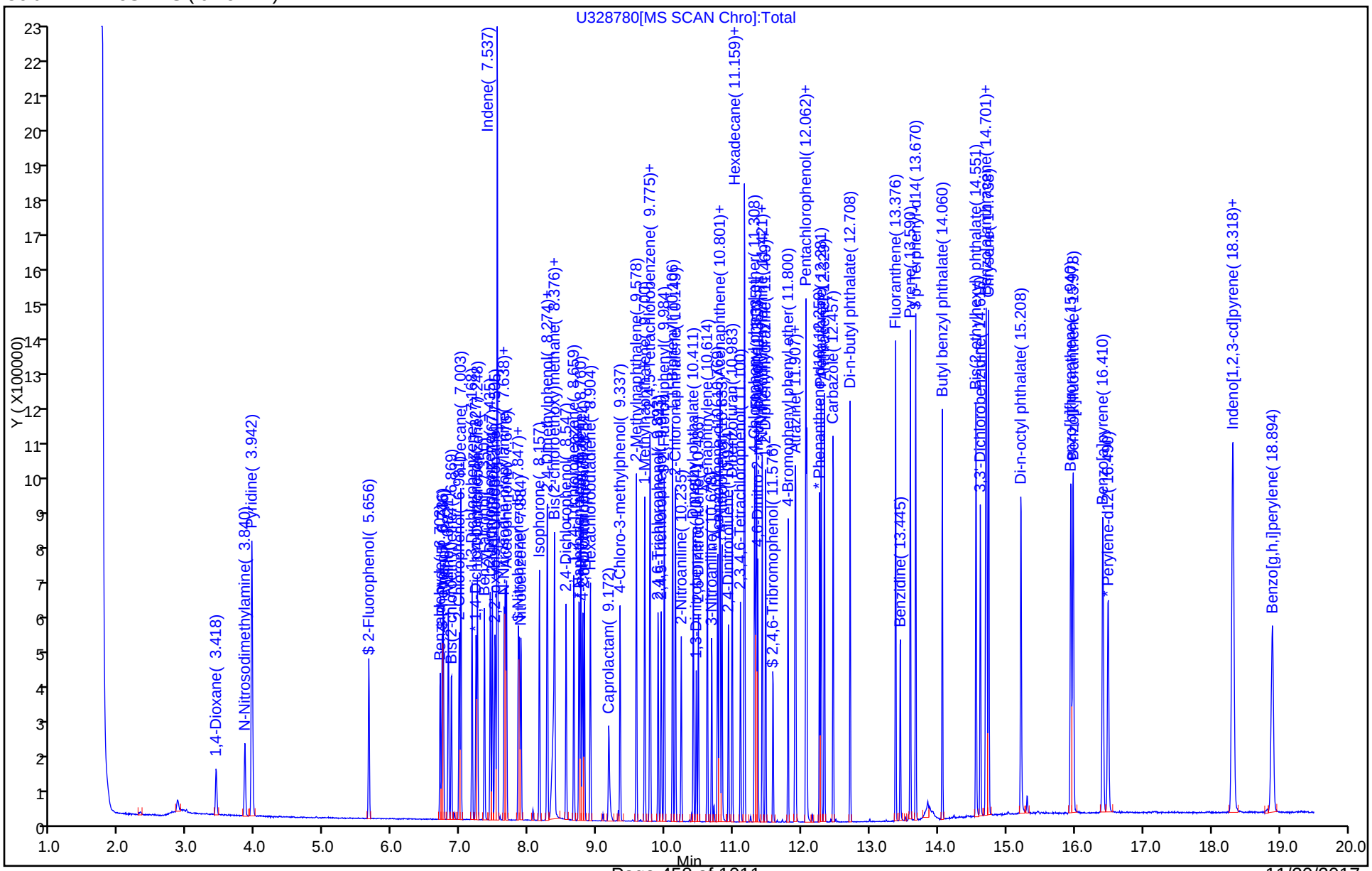
Report Date: 13-Nov-2017 14:27:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328780.D

Injection Date:	10-Nov-2017 16:59:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	CCVIS - List1 50			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

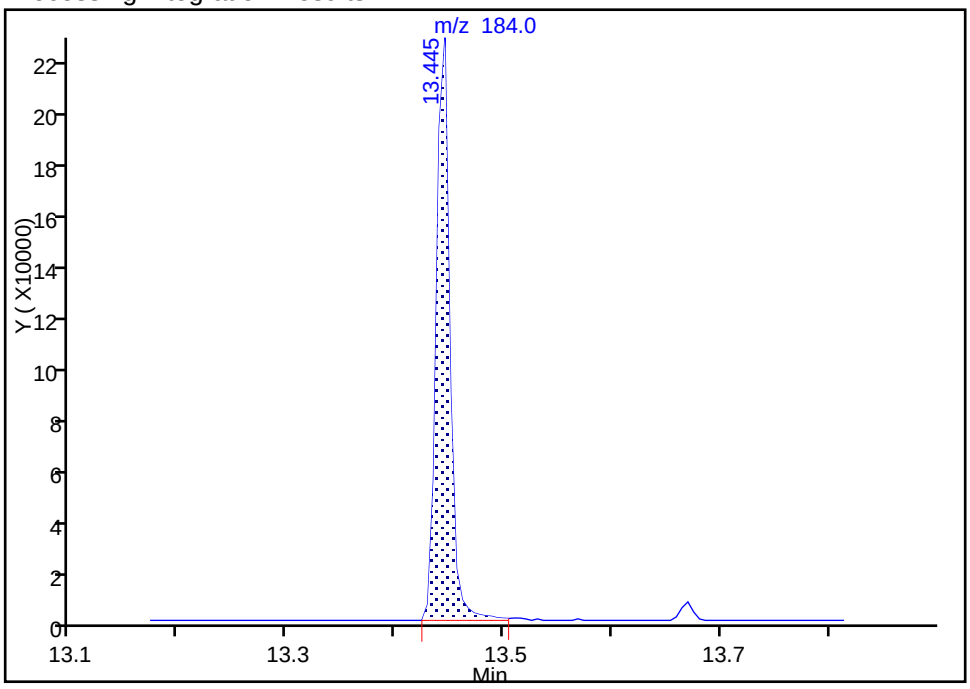
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Injection Date: 10-Nov-2017 16:59:30 Instrument ID: HP5973U
Lims ID: CCVIS - List1 50
Client ID:
Operator ID: DR ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

164 Benzidine, CAS: 92-87-5

Signal: 1

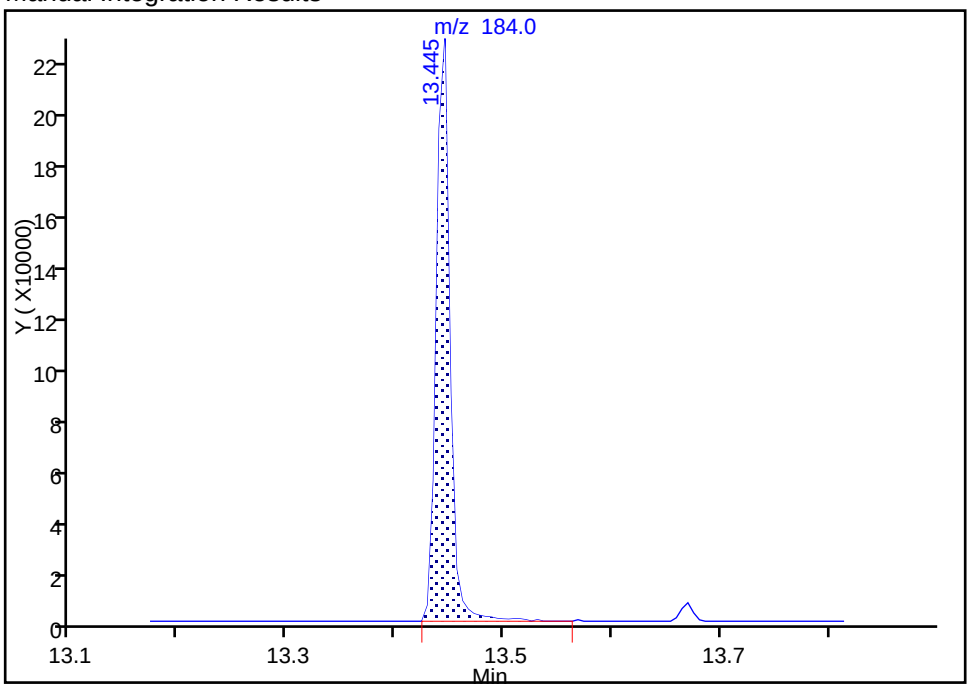
Processing Integration Results

RT: 13.45
Area: 192265
Amount: 39.075126
Amount Units: ng/uL



Manual Integration Results

RT: 13.45
Area: 193194
Amount: 39.263932
Amount Units: ng/uL



Reviewer: richardsd, 13-Nov-2017 12:07:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-387056/4 Calibration Date: 11/13/2017 15:43

Instrument ID: HP5973U Calib Start Date: 10/29/2017 17:50

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 10/29/2017 20:04

Lab File ID: U328815.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6552	0.5967	0.0100	45500	50000	-8.9	20.0
N-Nitrosodimethylamine	Ave	1.003	0.9910	0.0100	49400	50000	-1.2	50.0
Pyridine	Ave	1.615	1.428	0.0100	88400	100000	-11.6	50.0
Benzaldehyde	Ave	1.142	0.8029	0.0100	35100	50000	-29.7	50.0
Phenol	Ave	1.720	1.605	0.8000	46700	50000	-6.7	20.0
Aniline	Ave	2.132	1.999	0.0100	46900	50000	-6.2	20.0
Bis(2-chloroethyl)ether	Ave	1.415	1.331	0.7000	47000	50000	-5.9	20.0
2-Chlorophenol	Ave	1.296	1.256	0.8000	48500	50000	-3.1	20.0
n-Decane	Ave	2.180	2.033	0.0100	46600	50000	-6.8	20.0
1,3-Dichlorobenzene	Ave	1.597	1.570	0.0100	49100	50000	-1.7	20.0
1,4-Dichlorobenzene	Ave	1.605	1.558	0.0100	48600	50000	-2.9	20.0
Benzyl alcohol	Ave	0.8799	0.8041	0.0100	45700	50000	-8.6	20.0
1,2-Dichlorobenzene	Ave	1.509	1.471	0.0100	48800	50000	-2.5	20.0
2-Methylphenol	Ave	1.195	1.131	0.7000	47300	50000	-5.4	20.0
bis (2-chloroisopropyl) ether	Ave	2.606	2.470	0.0100	47400	50000	-5.2	20.0
Indene	Ave	2.298	2.235	0.0100	146000	150000	-2.7	20.0
4-Methylphenol	Ave	1.244	1.184	0.6000	47600	50000	-4.8	20.0
N-Nitrosodi-n-propylamine	Ave	1.025	0.9797	0.5000	47800	50000	-4.4	20.0
Acetophenone	Ave	1.751	1.699	0.0100	48500	50000	-3.0	20.0
Hexachloroethane	Ave	0.5779	0.5594	0.3000	48400	50000	-3.2	20.0
Nitrobenzene	Ave	0.4011	0.3917	0.2000	48800	50000	-2.3	20.0
Isophorone	Ave	0.6994	0.6629	0.4000	47400	50000	-5.2	20.0
2-Nitrophenol	Lin1		0.1750	0.1000	49700	50000	-0.6	20.0
2,4-Dimethylphenol	Ave	0.3591	0.3437	0.2000	47900	50000	-4.3	20.0
Benzoic acid	Lin1		0.1863	0.0100	129000	150000	-14.3	50.0
Bis(2-chloroethoxy)methane	Ave	0.4355	0.4169	0.3000	47900	50000	-4.3	20.0
2,4-Dichlorophenol	Ave	0.3060	0.3070	0.2000	50200	50000	0.3	20.0
1,2,4-Trichlorobenzene	Ave	0.3634	0.3621	0.0100	49800	50000	-0.3	20.0
Naphthalene	Ave	0.999	0.9836	0.7000	49300	50000	-1.5	20.0
4-Chloroaniline	Ave	0.4201	0.4277	0.0100	50900	50000	1.8	20.0
2,6-Dichlorophenol	Ave	0.3040	0.3077	0.0100	50600	50000	1.2	20.0
Hexachlorobutadiene	Ave	0.2327	0.2347	0.0100	50400	50000	0.9	20.0
Caprolactam	Lin1		0.0940	0.0100	45700	50000	-8.6	50.0
4-Chloro-3-methylphenol	Ave	0.2880	0.2667	0.2000	46300	50000	-7.4	20.0
2-Methylnaphthalene	Ave	0.6813	0.6814	0.4000	50000	50000	0.0	20.0
1-Methylnaphthalene	Ave	0.6535	0.6510	0.0100	49800	50000	-0.4	20.0
Hexachlorocyclopentadiene	Lin1		0.5215	0.0500	49800	50000	-0.4	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7289	0.7386	0.0100	50700	50000	1.3	20.0
2,4,6-Trichlorophenol	Ave	0.4456	0.4387	0.2000	49200	50000	-1.6	20.0
2,4,5-Trichlorophenol	Lin1		0.4665	0.2000	47900	50000	-4.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-387056/4 Calibration Date: 11/13/2017 15:43

Instrument ID: HP5973U Calib Start Date: 10/29/2017 17:50

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 10/29/2017 20:04

Lab File ID: U328815.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.672	1.625	0.0100	48600	50000	-2.8	20.0
2-Chloronaphthalene	Ave	1.353	1.314	0.8000	48600	50000	-2.9	20.0
2-Nitroaniline	Lin1		0.3992	0.0100	46700	50000	-6.7	20.0
Dimethyl phthalate	Ave	1.504	1.407	0.0100	46800	50000	-6.4	20.0
1,3-Dinitrobenzene	Lin1		0.1164	0.0100	48300	50000	-3.3	20.0
2,6-Dinitrotoluene	Lin1		0.3266	0.2000	46600	50000	-6.8	20.0
Acenaphthylene	Ave	1.892	1.826	0.9000	48300	50000	-3.5	20.0
3-Nitroaniline	Lin1		0.3277	0.0100	46100	50000	-7.8	20.0
2,4-Dinitrophenol	Lin1		0.1801	0.0100	101000	100000	0.9	20.0
Acenaphthene	Ave	1.297	1.255	0.0100	48400	50000	-3.2	20.0
4-Nitrophenol	Lin1		0.1696	0.0100	81300	100000	-18.7	20.0
2,4-Dinitrotoluene	Lin1		0.4318	0.0100	46900	50000	-6.2	20.0
Dibenzofuran	Ave	1.861	1.773	0.8000	47700	50000	-4.7	20.0
2,3,4,6-Tetrachlorophenol	Lin1		0.3989	0.0100	45800	50000	-8.5	20.0
Diethyl phthalate	Ave	1.464	1.332	0.0100	45500	50000	-9.0	20.0
Hexadecane	Ave	1.223	1.136	0.0100	46500	50000	-7.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.8234	0.7912	0.4000	48000	50000	-3.9	20.0
4-Nitroaniline	Lin1		0.3430	0.0100	44200	50000	-11.5	20.0
Fluorene	Ave	1.524	1.467	0.9000	48100	50000	-3.7	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1272	0.0100	103000	100000	3.2	20.0
Diphenylamine	Ave	0.6478	0.6705	0.0100	44200	42800	3.5	20.0
N-Nitrosodiphenylamine	Ave	0.5539	0.5732	0.0100	51700	50000	3.5	20.0
1,2-Diphenylhydrazine	Ave	0.7724	0.7758	0.0100	50200	50000	0.4	20.0
trans-Azobenzene	Ave	0.7724	0.7758	0.0100	50200	50000	0.4	20.0
4-Bromophenyl phenyl ether	Ave	0.2597	0.2634	0.1000	50700	50000	1.4	20.0
Hexachlorobenzene	Ave	0.2709	0.2810	0.1000	51900	50000	3.7	20.0
Atrazine	Ave	0.4309	0.3968	0.0100	46000	50000	-7.9	20.0
n-Octadecane	Ave	0.6007	0.6103	0.0100	50800	50000	1.6	20.0
Pentachlorophenol	Lin1		0.1519	0.0500	91400	100000	-8.6	20.0
Phenanthrene	Ave	1.154	1.154	0.7000	50000	50000	0.0	20.0
Anthracene	Ave	1.191	1.194	0.7000	50100	50000	0.2	20.0
Carbazole	Ave	1.054	1.012	0.0100	48000	50000	-4.1	20.0
Di-n-butyl phthalate	Ave	1.194	1.118	0.0100	46800	50000	-6.4	20.0
Fluoranthene	Ave	1.322	1.200	0.6000	45400	50000	-9.2	20.0
Benzidine	Ave	0.5221	0.4219	0.0100	40400	50000	-19.2	50.0
Pyrene	Ave	0.8953	1.049	0.6000	58600	50000	17.1	20.0
Butyl benzyl phthalate	Ave	0.3973	0.4321	0.0100	54400	50000	8.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5434	0.5796	0.0100	53300	50000	6.7	20.0
3,3'-Dichlorobenzidine	Ave	0.4601	0.4125	0.0100	44800	50000	-10.4	50.0
Benzo(a)anthracene	Ave	1.148	1.146	0.8000	49900	50000	-0.3	20.0
Chrysene	Ave	1.108	1.114	0.7000	50300	50000	0.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-387056/4 Calibration Date: 11/13/2017 15:43

Instrument ID: HP5973U Calib Start Date: 10/29/2017 17:50

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 10/29/2017 20:04

Lab File ID: U328815.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Ave	0.996	0.9720	0.0100	48800	50000	-2.4	20.0
Benzo(b)fluoranthene	Ave	1.173	1.161	0.7000	49500	50000	-1.0	20.0
Benzo(k)fluoranthene	Ave	1.203	1.275	0.7000	53000	50000	6.0	20.0
Benzo(a)pyrene	Ave	1.140	1.172	0.7000	51400	50000	2.8	20.0
Dibenz(a,h)anthracene	Ave	1.081	1.268	0.4000	58600	50000	17.3	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.273	1.483	0.5000	58300	50000	16.5	20.0
Benzo(g,h,i)perylene	Ave	1.006	1.254	0.5000	62300	50000	24.7*	20.0
2-Fluorophenol	Ave	1.339	1.236	0.0100	46200	50000	-7.7	20.0
Phenol-d5	Ave	1.646	1.529	0.0100	46500	50000	-7.1	20.0
Nitrobenzene-d5	Ave	0.4349	0.4273	0.0100	49100	50000	-1.8	20.0
2-Fluorobiphenyl	Ave	1.560	1.527	0.0100	49000	50000	-2.1	20.0
2,4,6-Tribromophenol	Lin1		0.1288	0.0100	49300	50000	-1.4	20.0
p-Terphenyl-d14	Ave	0.7201	0.8413	0.0100	58400	50000	16.8	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328815.D
Lims ID: CCVIS - List1 50
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Nov-2017 15:43:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0067222-004
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 14-Nov-2017 11:50:47 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: richardsd Date: 13-Nov-2017 16:30:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	96	84475	40.0	40.0	
* 2 Naphthalene-d8	136	8.739	8.739	0.000	99	304183	40.0	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	0.000	96	156223	40.0	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	98	286705	40.0	40.0	
* 5 Chrysene-d12	240	14.711	14.711	0.000	96	334268	40.0	40.0	
* 6 Perylene-d12	264	16.485	16.485	0.000	99	327022	40.0	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	95	130496	50.0	46.2	
$ 8 Phenol-d5	99	6.730	6.730	0.000	96	161486	50.0	46.5	
$ 9 Nitrobenzene-d5	82	7.862	7.862	0.000	94	162465	50.0	49.1	
$ 10 2-Fluorobiphenyl	172	9.983	9.983	0.000	100	298231	50.0	49.0	
$ 11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	95	46140	50.0	49.3	
$ 12 p-Terphenyl-d14	244	13.669	13.669	0.000	99	351504	50.0	58.4	
23 1,4-Dioxane	88	3.418	3.418	0.000	94	63010	50.0	45.5	
24 N-Nitrosodimethylamine	42	3.840	3.840	0.000	84	104640	50.0	49.4	
25 Pyridine	52	3.941	3.941	0.000	81	301493	100.0	88.4	
32 Benzaldehyde	77	6.703	6.703	0.000	92	84782	50.0	35.1	
33 Phenol	94	6.751	6.751	0.000	97	169485	50.0	46.7	
34 Aniline	93	6.821	6.821	0.000	94	211046	50.0	46.9	
35 Bis(2-chloroethyl)ether	93	6.869	6.869	0.000	93	140518	50.0	47.0	
37 2-Chlorophenol	128	6.981	6.981	0.000	96	132676	50.0	48.5	
38 n-Decane	57	7.008	7.008	0.000	92	214638	50.0	46.6	
39 1,3-Dichlorobenzene	146	7.168	7.168	0.000	98	165774	50.0	49.1	
40 1,4-Dichlorobenzene	146	7.248	7.248	0.000	93	164562	50.0	48.6	
41 Benzyl alcohol	108	7.350	7.350	0.000	90	84904	50.0	45.7	
42 1,2-Dichlorobenzene	146	7.435	7.435	0.000	97	155375	50.0	48.8	
43 2-Methylphenol	108	7.467	7.467	0.000	99	119390	50.0	47.3	
44 2,2'-oxybis[1-chloropropan	45	7.504	7.504	0.000	93	260864	50.0	47.4	
45 Indene	115	7.542	7.542	0.000	91	707995	150.0	145.9	
46 4-Methylphenol	108	7.638	7.638	0.000	94	125044	50.0	47.6	
47 N-Nitrosodi-n-propylamine	70	7.654	7.654	0.000	92	103445	50.0	47.8	
49 Acetophenone	105	7.675	7.675	0.000	92	179379	50.0	48.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.846	7.846	0.000	91	59070	50.0	48.4	
54 Nitrobenzene	77	7.884	7.884	0.000	93	148944	50.0	48.8	
56 Isophorone	82	8.156	8.156	0.000	98	252055	50.0	47.4	
59 2-Nitrophenol	139	8.268	8.268	0.000	96	66546	50.0	49.7	
60 2,4-Dimethylphenol	107	8.274	8.274	0.000	93	130664	50.0	47.9	
64 Benzoic acid	105	8.370	8.370	0.000	92	212530	150.0	128.6	
62 Bis(2-chloroethoxy)methane	93	8.381	8.381	0.000	95	158532	50.0	47.9	
67 2,4-Dichlorophenol	162	8.546	8.546	0.000	95	116736	50.0	50.2	
68 1,2,4-Trichlorobenzene	180	8.664	8.664	0.000	94	137693	50.0	49.8	
70 Naphthalene	128	8.760	8.760	0.000	98	373974	50.0	49.3	
72 4-Chloroaniline	127	8.792	8.792	0.000	95	162623	50.0	50.9	
73 2,6-Dichlorophenol	162	8.813	8.813	0.000	96	117010	50.0	50.6	
74 Hexachlorobutadiene	225	8.904	8.904	0.000	93	89233	50.0	50.4	
76 Caprolactam	113	9.171	9.171	0.000	73	35743	50.0	45.7	
80 4-Chloro-3-methylphenol	107	9.337	9.337	0.000	95	101394	50.0	46.3	
83 2-Methylnaphthalene	142	9.577	9.577	0.000	92	259099	50.0	50.0	
85 1-Methylnaphthalene	142	9.700	9.700	0.000	94	247528	50.0	49.8	
86 Hexachlorocyclopentadiene	237	9.775	9.775	0.000	94	101840	50.0	49.8	
87 1,2,4,5-Tetrachlorobenzene	216	9.780	9.780	0.000	96	144225	50.0	50.7	
89 2,4,6-Trichlorophenol	196	9.898	9.898	0.000	92	85661	50.0	49.2	
91 2,4,5-Trichlorophenol	196	9.941	9.941	0.000	96	91095	50.0	47.9	
94 1,1'-Biphenyl	154	10.106	10.106	0.000	97	317287	50.0	48.6	
95 2-Chloronaphthalene	162	10.149	10.149	0.000	96	256611	50.0	48.6	
98 2-Nitroaniline	65	10.234	10.234	0.000	80	77954	50.0	46.7	
102 Dimethyl phthalate	163	10.411	10.411	0.000	99	274753	50.0	46.8	
103 1,3-Dinitrobenzene	168	10.453	10.453	0.000	85	44265	50.0	48.3	
104 2,6-Dinitrotoluene	165	10.485	10.485	0.000	93	63780	50.0	46.6	
105 Acenaphthylene	152	10.614	10.614	0.000	98	356488	50.0	48.3	
106 3-Nitroaniline	138	10.683	10.683	0.000	91	63998	50.0	46.1	
107 2,4-Dinitrophenol	184	10.790	10.790	0.000	83	70355	100.0	100.9	
108 Acenaphthene	153	10.801	10.801	0.000	95	245132	50.0	48.4	
109 4-Nitrophenol	109	10.833	10.833	0.000	96	66235	100.0	81.3	
111 2,4-Dinitrotoluene	165	10.929	10.929	0.000	94	84312	50.0	46.9	
112 Dibenzofuran	168	10.982	10.982	0.000	97	346319	50.0	47.7	
116 2,3,4,6-Tetrachlorophenol	232	11.100	11.100	0.000	70	77899	50.0	45.8	
118 Diethyl phthalate	149	11.153	11.153	0.000	98	260203	50.0	45.5	
119 Hexadecane	57	11.164	11.164	0.000	91	221814	50.0	46.5	
121 4-Chlorophenyl phenyl ethe	204	11.308	11.308	0.000	89	154500	50.0	48.0	
122 4-Nitroaniline	138	11.324	11.324	0.000	85	66979	50.0	44.2	
123 Fluorene	166	11.335	11.335	0.000	95	286469	50.0	48.1	
125 4,6-Dinitro-2-methylphenol	198	11.356	11.356	0.000	88	91162	100.0	103.2	
127 N-Nitrosodiphenylamine	169	11.420	11.420	0.000	64	205439	50.0	51.7	
128 Diphenylamine	169	11.420	11.420	0.000	94	205439	42.8	44.2	
130 Azobenzene	77	11.468	11.468	0.000	98	278028	50.0	50.2	
129 1,2-Diphenylhydrazine	77	11.468	11.468	0.000	97	278028	50.0	50.2	
137 4-Bromophenyl phenyl ether	248	11.800	11.800	0.000	66	94406	50.0	50.7	
139 Hexachlorobenzene	284	11.901	11.901	0.000	96	100708	50.0	51.9	
141 Atrazine	200	11.912	11.912	0.000	93	77481	50.0	46.0	
144 n-Octadecane	57	12.056	12.056	0.000	92	218724	50.0	50.8	
143 Pentachlorophenol	266	12.072	12.072	0.000	94	108862	100.0	91.4	
150 Phenanthrene	178	12.286	12.286	0.000	97	413626	50.0	50.0	
151 Anthracene	178	12.329	12.329	0.000	96	427793	50.0	50.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.457	12.457	0.000	97	362540	50.0	48.0	
155 Di-n-butyl phthalate	149	12.708	12.708	0.000	100	400758	50.0	46.8	
162 Fluoranthene	202	13.376	13.376	0.000	98	430118	50.0	45.4	
164 Benzidine	184	13.440	13.440	0.000	98	176274	50.0	40.4	
165 Pyrene	202	13.589	13.589	0.000	97	438142	50.0	58.6	
172 Butyl benzyl phthalate	149	14.059	14.059	0.000	98	180540	50.0	54.4	
178 Bis(2-ethylhexyl) phthalat	149	14.551	14.551	0.000	97	242167	50.0	53.3	
179 3,3'-Dichlorobenzidine	252	14.615	14.615	0.000	73	172347	50.0	44.8	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	96	478666	50.0	49.9	
182 Chrysene	228	14.738	14.738	0.000	96	465651	50.0	50.3	
183 Di-n-octyl phthalate	149	15.208	15.208	0.000	99	406141	50.0	48.8	
185 Benzo[b]fluoranthene	252	15.940	15.940	0.000	96	474580	50.0	49.5	
187 Benzo[k]fluoranthene	252	15.977	15.977	0.000	97	521302	50.0	53.0	
190 Benzo[a]pyrene	252	16.410	16.410	0.000	75	479123	50.0	51.4	
193 Dibenz(a,h)anthracene	278	18.306	18.306	0.000	90	518221	50.0	58.6	
194 Indeno[1,2,3-cd]pyrene	276	18.317	18.317	0.000	97	606250	50.0	58.3	
195 Benzo[g,h,i]perylene	276	18.894	18.894	0.000	98	512562	50.0	62.3	

Reagents:

MB_LIST1_WRK_00522	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

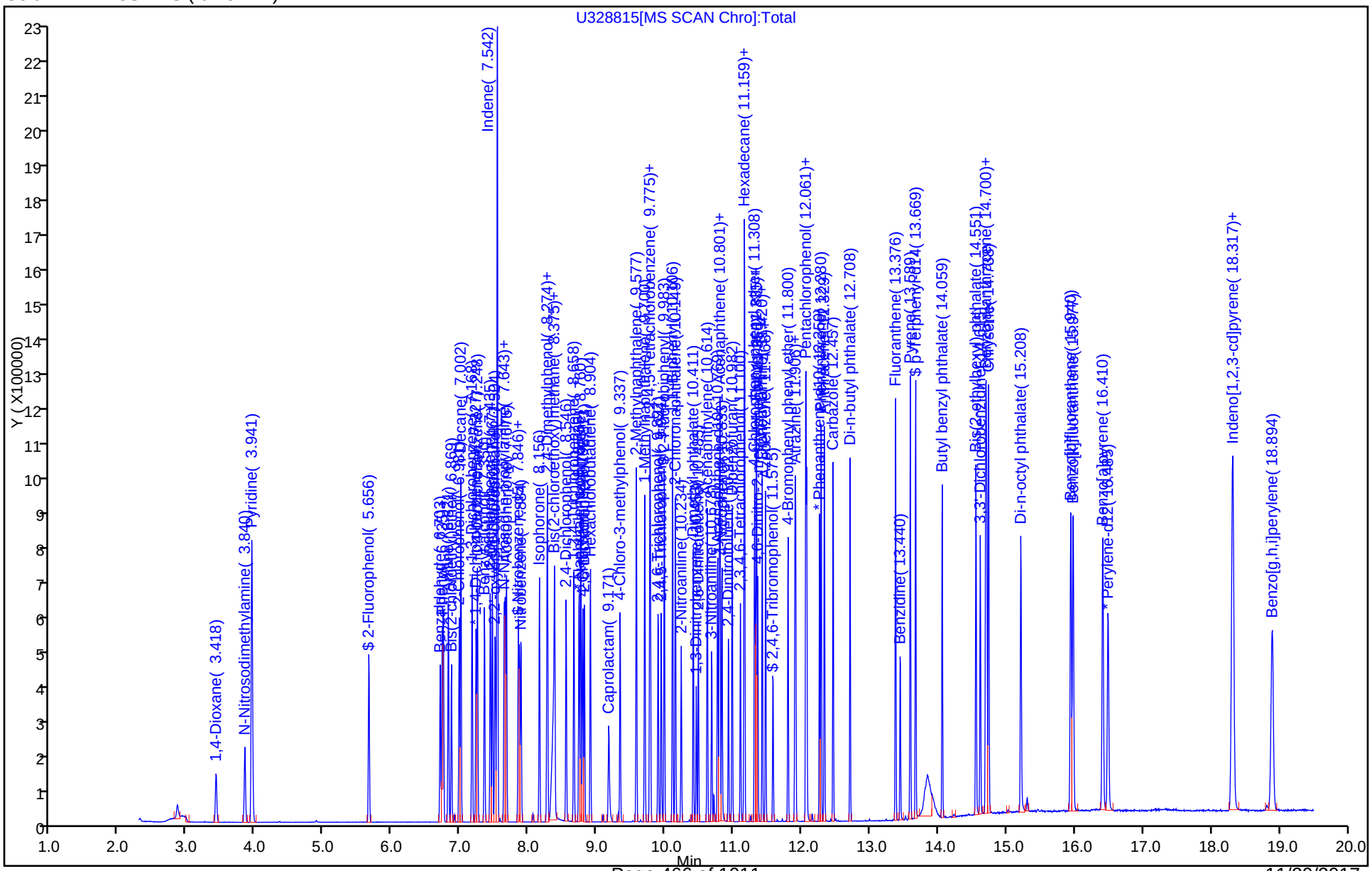
Report Date: 14-Nov-2017 11:50:47 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328815.D

Injection Date:	13-Nov-2017 15:43:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	CCVIS - List1 50			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-387796/4 Calibration Date: 11/16/2017 12:54

Instrument ID: HP5973X Calib Start Date: 10/19/2017 12:41

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/19/2017 14:53

Lab File ID: X207615.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5995	0.4334	0.0100	36100	50000	-27.7*	20.0
N-Nitrosodimethylamine	Ave	0.5605	0.5796	0.0100	51700	50000	3.4	50.0
Pyridine	Lin1		0.6301	0.0100	74200	100000	-25.8	50.0
Benzaldehyde	Ave	0.9284	0.7668	0.0100	41300	50000	-17.4	50.0
Aniline	Ave	2.016	1.839	0.0100	45600	50000	-8.8	20.0
Phenol	Ave	1.740	1.414	0.8000	40600	50000	-18.7	20.0
Bis(2-chloroethyl)ether	Ave	1.269	1.156	0.7000	45600	50000	-8.9	20.0
2-Chlorophenol	Ave	1.262	1.324	0.8000	52500	50000	4.9	20.0
n-Decane	Ave	1.322	1.007	0.0100	38100	50000	-23.8*	20.0
1,3-Dichlorobenzene	Ave	1.492	1.506	0.0100	50500	50000	1.0	20.0
1,4-Dichlorobenzene	Ave	1.543	1.512	0.0100	49000	50000	-2.0	20.0
1,2-Dichlorobenzene	Lin1		1.428	0.0100	53600	50000	7.3	20.0
Benzyl alcohol	Lin1		0.8146	0.0100	50500	50000	0.9	20.0
Indene	Ave	0.6236	0.6555	0.0100	158000	150000	5.1	20.0
2-Methylphenol	Lin1		1.139	0.7000	51800	50000	3.6	20.0
bis (2-chloroisopropyl) ether	Lin1		0.8877	0.0100	34100	50000	-31.8*	20.0
Acetophenone	Ave	1.661	1.656	0.0100	49900	50000	-0.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.8593	0.7673	0.5000	44600	50000	-10.7	20.0
4-Methylphenol	Ave	1.171	1.017	0.6000	43400	50000	-13.2	20.0
Hexachloroethane	Ave	0.5634	0.6037	0.3000	53600	50000	7.2	20.0
Nitrobenzene	Ave	0.4012	0.3899	0.2000	48600	50000	-2.8	20.0
Isophorone	Lin1		0.6739	0.4000	49200	50000	-1.7	20.0
2-Nitrophenol	Lin1		0.1974	0.1000	47700	50000	-4.6	20.0
2,4-Dimethylphenol	Lin1		0.4197	0.2000	52600	50000	5.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.4422	0.4018	0.3000	45400	50000	-9.1	20.0
2,4-Dichlorophenol	Lin1		0.3251	0.2000	49200	50000	-1.6	20.0
Benzoic acid	Lin1		0.1791	0.0100	125000	150000	-16.5	50.0
1,2,4-Trichlorobenzene	Ave	0.3803	0.3879	0.0100	51000	50000	2.0	20.0
Naphthalene	Ave	1.054	1.021	0.7000	48400	50000	-3.1	20.0
4-Chloroaniline	Lin1		0.4247	0.0100	50800	50000	1.6	20.0
2,6-Dichlorophenol	Lin1		0.3150	0.0100	49700	50000	-0.6	20.0
Hexachlorobutadiene	Ave	0.2604	0.2883	0.0100	55300	50000	10.7	20.0
Caprolactam	Lin1		0.0838	0.0100	39000	50000	-21.9	50.0
4-Chloro-3-methylphenol	Lin1		0.3435	0.2000	53400	50000	6.8	20.0
2-Methylnaphthalene	Ave	0.7305	0.6881	0.4000	47100	50000	-5.8	20.0
1-Methylnaphthalene	Ave	0.6666	0.6334	0.0100	47500	50000	-5.0	20.0
Hexachlorocyclopentadiene	Lin1		0.6095	0.0500	48100	50000	-3.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7984	0.7689	0.0100	48200	50000	-3.7	20.0
2,4,6-Trichlorophenol	Lin1		0.4988	0.2000	49900	50000	-0.2	20.0
2,4,5-Trichlorophenol	Lin1		0.5025	0.2000	47800	50000	-4.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-387796/4 Calibration Date: 11/16/2017 12:54

Instrument ID: HP5973X Calib Start Date: 10/19/2017 12:41

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/19/2017 14:53

Lab File ID: X207615.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.323	1.274	0.8000	48100	50000	-3.7	20.0
Biphenyl	Ave	1.672	1.600	0.0100	47800	50000	-4.3	20.0
2-Nitroaniline	Lin1		0.3721	0.0100	50900	50000	1.8	20.0
Dimethyl phthalate	Ave	1.451	1.632	0.0100	56300	50000	12.5	20.0
1,3-Dinitrobenzene	Lin1		0.1373	0.0100	51100	50000	2.2	20.0
2,6-Dinitrotoluene	Lin1		0.3570	0.2000	50700	50000	1.4	20.0
Acenaphthylene	Ave	1.877	1.956	0.9000	52100	50000	4.2	20.0
3-Nitroaniline	Lin1		0.3497	0.0100	49600	50000	-0.8	20.0
Acenaphthene	Ave	1.251	1.320	0.0100	52700	50000	5.5	20.0
2,4-Dinitrophenol	Lin1		0.2309	0.0100	96000	100000	-4.0	20.0
4-Nitrophenol	Lin1		0.3403	0.0100	154000	100000	54.5*	20.0
Dibenzofuran	Ave	1.823	1.907	0.8000	52300	50000	4.6	20.0
2,4-Dinitrotoluene	Lin1		0.4897	0.0100	54800	50000	9.5	20.0
2,3,4,6-Tetrachlorophenol	Lin1		0.4163	0.0100	48700	50000	-2.5	20.0
Diethyl phthalate	Ave	1.423	1.740	0.0100	61200	50000	22.3*	20.0
Hexadecane	Ave	0.7816	0.6159	0.0100	39400	50000	-21.2*	20.0
Fluorene	Ave	1.475	1.420	0.9000	48100	50000	-3.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.8313	0.7756	0.4000	46600	50000	-6.7	20.0
4-Nitroaniline	Lin1		0.3534	0.0100	49700	50000	-0.5	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1408	0.0100	99800	100000	-0.2	20.0
Diphenylamine	Ave	0.6189	0.6102	0.0100	42100	42800	-1.4	20.0
N-Nitrosodiphenylamine	Ave	0.5292	0.5217	0.0100	49300	50000	-1.4	20.0
1,2-Diphenylhydrazine	Ave	0.6840	0.7816	0.0100	57100	50000	14.3	20.0
trans-Azobenzene	Ave	0.6840	0.7816	0.0100	57100	50000	14.3	20.0
4-Bromophenyl phenyl ether	Ave	0.2457	0.2516	0.1000	51200	50000	2.4	20.0
Hexachlorobenzene	Ave	0.2472	0.2515	0.1000	50900	50000	1.7	20.0
Atrazine	Lin1		0.4484	0.0100	54500	50000	9.1	20.0
Pentachlorophenol	Lin1		0.1296	0.0500	91400	100000	-8.6	20.0
n-Octadecane	Lin1		0.3429	0.0100	45700	50000	-8.7	20.0
Phenanthrene	Ave	1.025	1.048	0.7000	51100	50000	2.2	20.0
Anthracene	Ave	1.077	1.090	0.7000	50600	50000	1.2	20.0
Carbazole	Ave	0.9689	1.003	0.0100	51800	50000	3.5	20.0
Di-n-butyl phthalate	Lin1		1.404	0.0100	62300	50000	24.6*	20.0
Fluoranthene	Ave	1.196	1.227	0.6000	51300	50000	2.6	20.0
Benzidine	Ave	0.4568	0.4712	0.0100	51600	50000	3.1	50.0
Pyrene	Ave	1.128	1.195	0.6000	52900	50000	5.9	20.0
Butyl benzyl phthalate	Lin1		0.6038	0.0100	66400	50000	32.9*	20.0
3,3'-Dichlorobenzidine	Lin1		0.4130	0.0100	51200	50000	2.5	50.0
Benzo(a)anthracene	Lin1		1.129	0.8000	52900	50000	5.8	20.0
Chrysene	Ave	1.047	1.068	0.7000	51000	50000	2.0	20.0
Bis(2-ethylhexyl) phthalate	Lin1		0.8519	0.0100	67700	50000	35.5*	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-387796/4 Calibration Date: 11/16/2017 12:54

Instrument ID: HP5973X Calib Start Date: 10/19/2017 12:41

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/19/2017 14:53

Lab File ID: X207615.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin1		1.410	0.0100	66100	50000	32.2*	20.0
Benzo(b)fluoranthene	Ave	1.150	1.325	0.7000	57600	50000	15.3	20.0
Benzo(k)fluoranthene	Ave	1.300	1.261	0.7000	48500	50000	-3.0	20.0
Benzo(a)pyrene	Lin1		1.197	0.7000	53100	50000	6.2	20.0
Indeno(1,2,3-cd)pyrene	Lin1		1.376	0.5000	50100	50000	0.2	20.0
Dibenz(a,h)anthracene	Lin1		1.154	0.4000	49800	50000	-0.4	20.0
Benzo(g,h,i)perylene	Lin1		1.131	0.5000	48000	50000	-4.0	20.0
2-Fluorophenol	Ave	1.291	1.254	0.0100	48500	50000	-2.9	20.0
Phenol-d5	Ave	1.561	1.503	0.0100	48100	50000	-3.7	20.0
Nitrobenzene-d5	Ave	0.4073	0.3887	0.0100	47700	50000	-4.6	20.0
2-Fluorobiphenyl	Ave	1.656	1.533	0.0100	46300	50000	-7.4	20.0
2,4,6-Tribromophenol	Lin1		0.1067	0.0100	46100	50000	-7.7	20.0
p-Terphenyl-d14	Lin1		0.8276	0.0100	53200	50000	6.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207615.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Nov-2017 12:54:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ccvis
Operator ID: dr Instrument ID: HP5973X
Sublist: chrom-X-8270*sub83

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Nov-2017 11:32:56 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: richardsd Date: 16-Nov-2017 13:35:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.009	5.009	0.000	96	144901	40.0	40.0	
* 2 Naphthalene-d8	136	6.596	6.596	0.000	98	486670	40.0	40.0	
* 3 Acenaphthene-d10	164	8.668	8.668	0.000	95	247811	40.0	40.0	
* 4 Phenanthrene-d10	188	10.341	10.341	0.000	99	506934	40.0	40.0	
* 5 Chrysene-d12	240	12.761	12.761	0.000	99	536414	40.0	40.0	
* 6 Perylene-d12	264	13.877	13.877	0.000	99	467288	40.0	40.0	
$ 7 2-Fluorophenol	112	3.161	3.161	0.000	93	227042	50.0	48.5	
$ 8 Phenol-d5	99	4.608	4.608	0.000	91	272221	50.0	48.1	
$ 9 Nitrobenzene-d5	82	5.730	5.730	0.000	93	236451	50.0	47.7	
$ 10 2-Fluorobiphenyl	172	7.905	7.905	0.000	100	474847	50.0	46.3	
$ 11 2,4,6-Tribromophenol	330	9.593	9.593	0.000	94	67620	50.0	46.1	
$ 12 p-Terphenyl-d14	244	11.879	11.879	0.000	99	554929	50.0	53.2	
15 1,4-Dioxane	88	1.125	1.125	0.000	93	78500	50.0	36.1	
16 N-Nitrosodimethylamine	42	1.344	1.344	0.000	85	104978	50.0	51.7	
17 Pyridine	52	1.376	1.376	0.000	86	228258	100.0	74.2	
27 Benzaldehyde	77	4.421	4.421	0.000	91	138886	50.0	41.3	
29 Aniline	93	4.587	4.587	0.000	96	333142	50.0	45.6	
28 Phenol	94	4.624	4.624	0.000	83	256129	50.0	40.6	
31 Bis(2-chloroethyl)ether	93	4.699	4.699	0.000	91	209432	50.0	45.6	
32 2-Chlorophenol	128	4.742	4.742	0.000	96	239776	50.0	52.5	
35 n-Decane	57	4.865	4.865	0.000	89	182425	50.0	38.1	
36 1,3-Dichlorobenzene	146	4.934	4.934	0.000	98	272859	50.0	50.5	
37 1,4-Dichlorobenzene	146	5.036	5.036	0.000	97	273894	50.0	49.0	
39 1,2-Dichlorobenzene	146	5.228	5.228	0.000	98	258616	50.0	53.6	
38 Benzyl alcohol	108	5.233	5.233	0.000	97	147550	50.0	50.5	
229 Indene	115	5.346	5.346	0.000	85	1246034	150.0	157.7	
42 2,2'-oxybis[1-chloropropan	45	5.410	5.410	0.000	87	160790	50.0	34.1	
40 2-Methylphenol	108	5.410	5.410	0.000	98	206390	50.0	51.8	
45 Acetophenone	105	5.549	5.549	0.000	92	300004	50.0	49.9	
47 N-Nitrosodi-n-propylamine	70	5.575	5.575	0.000	85	138975	50.0	44.6	
46 4-Methylphenol	108	5.618	5.618	0.000	97	184162	50.0	43.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	5.645	5.645	0.000	97	109354	50.0	53.6	
52 Nitrobenzene	77	5.752	5.752	0.000	93	237195	50.0	48.6	
56 Isophorone	82	6.056	6.056	0.000	97	409981	50.0	49.2	
58 2-Nitrophenol	139	6.147	6.147	0.000	92	120099	50.0	47.7	
59 2,4-Dimethylphenol	107	6.259	6.259	0.000	98	255337	50.0	52.6	
62 Bis(2-chloroethoxy)methane	93	6.361	6.361	0.000	94	244432	50.0	45.4	
65 2,4-Dichlorophenol	162	6.457	6.457	0.000	97	197742	50.0	49.2	
64 Benzoic acid	105	6.505	6.505	0.000	81	326870	150.0	125.2	
67 1,2,4-Trichlorobenzene	180	6.542	6.542	0.000	98	235949	50.0	51.0	
69 Naphthalene	128	6.617	6.617	0.000	99	621357	50.0	48.4	
71 4-Chloroaniline	127	6.719	6.719	0.000	98	258330	50.0	50.8	
70 2,6-Dichlorophenol	162	6.724	6.724	0.000	91	191626	50.0	49.7	
73 Hexachlorobutadiene	225	6.804	6.804	0.000	98	175366	50.0	55.3	
78 Caprolactam	113	7.141	7.141	0.000	86	50955	50.0	39.0	
79 4-Chloro-3-methylphenol	107	7.349	7.349	0.000	94	208990	50.0	53.4	
82 2-Methylnaphthalene	142	7.450	7.450	0.000	100	418585	50.0	47.1	
83 1-Methylnaphthalene	142	7.563	7.563	0.000	96	385322	50.0	47.5	
84 Hexachlorocyclopentadiene	237	7.653	7.653	0.000	95	188800	50.0	48.1	
85 1,2,4,5-Tetrachlorobenzene	216	7.659	7.659	0.000	97	238189	50.0	48.2	
86 2,4,6-Trichlorophenol	196	7.814	7.814	0.000	94	154515	50.0	49.9	
87 2,4,5-Trichlorophenol	196	7.856	7.856	0.000	98	155649	50.0	47.8	
90 1,1'-Biphenyl	154	8.017	8.017	0.000	99	495579	50.0	47.8	
91 2-Chloronaphthalene	162	8.017	8.017	0.000	98	394598	50.0	48.1	
93 2-Nitroaniline	65	8.166	8.166	0.000	94	115277	50.0	50.9	
96 Dimethyl phthalate	163	8.412	8.412	0.000	99	505660	50.0	56.3	
97 1,3-Dinitrobenzene	168	8.423	8.423	0.000	92	83509	50.0	51.1	
99 2,6-Dinitrotoluene	165	8.460	8.460	0.000	89	110573	50.0	50.7	
100 Acenaphthylene	152	8.497	8.497	0.000	100	605922	50.0	52.1	
101 3-Nitroaniline	138	8.652	8.652	0.000	96	108323	50.0	49.6	
102 Acenaphthene	153	8.706	8.706	0.000	98	408742	50.0	52.7	
103 2,4-Dinitrophenol	184	8.775	8.775	0.000	95	143069	100.0	96.0	
107 Dibenzofuran	168	8.909	8.909	0.000	90	590669	50.0	52.3	
104 4-Nitrophenol	109	8.909	8.909	0.000	58	210852	100.0	154.5	
106 2,4-Dinitrotoluene	165	8.930	8.930	0.000	90	151685	50.0	54.8	
110 2,3,4,6-Tetrachlorophenol	232	9.074	9.074	0.000	97	128967	50.0	48.7	
112 Diethyl phthalate	149	9.245	9.245	0.000	99	539105	50.0	61.2	
138 Hexadecane	57	9.288	9.288	0.000	91	190781	50.0	39.4	
115 Fluorene	166	9.304	9.304	0.000	99	439771	50.0	48.1	
116 4-Chlorophenyl phenyl ethe	204	9.336	9.336	0.000	97	240262	50.0	46.6	
118 4-Nitroaniline	138	9.363	9.363	0.000	97	109462	50.0	49.7	
119 4,6-Dinitro-2-methylphenol	198	9.406	9.406	0.000	96	178383	100.0	99.8	
120 N-Nitrosodiphenylamine	169	9.480	9.480	0.000	97	330603	50.0	49.3	
121 Diphenylamine	169	9.480	9.480	0.000	98	330603	42.8	42.1	
122 Azobenzene	77	9.513	9.513	0.000	95	495259	50.0	57.1	
123 1,2-Diphenylhydrazine	77	9.513	9.513	0.000	98	495259	50.0	57.1	
130 4-Bromophenyl phenyl ether	248	9.892	9.892	0.000	97	159420	50.0	51.2	
131 Hexachlorobenzene	284	9.945	9.945	0.000	96	159369	50.0	50.9	
133 Atrazine	200	10.116	10.116	0.000	94	138911	50.0	54.5	
134 Pentachlorophenol	266	10.170	10.170	0.000	97	164185	100.0	91.4	
113 n-Octadecane	57	10.330	10.330	0.000	94	217256	50.0	45.7	
141 Phenanthrene	178	10.367	10.367	0.000	100	663852	50.0	51.1	
142 Anthracene	178	10.421	10.421	0.000	100	690899	50.0	50.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
143 Carbazole	167	10.602	10.602	0.000	100	635546	50.0	51.8	
145 Di-n-butyl phthalate	149	10.992	10.992	0.000	100	889616	50.0	62.3	
152 Fluoranthene	202	11.516	11.516	0.000	99	777655	50.0	51.3	
154 Benzidine	184	11.660	11.660	0.000	100	315911	50.0	51.6	
155 Pyrene	202	11.714	11.714	0.000	99	801193	50.0	52.9	
162 Butyl benzyl phthalate	149	12.323	12.323	0.000	98	404880	50.0	66.4	
166 3,3'-Dichlorobenzidine	252	12.745	12.745	0.000	86	276938	50.0	51.2	
167 Benzo[a]anthracene	228	12.750	12.750	0.000	97	757290	50.0	52.9	
169 Chrysene	228	12.782	12.782	0.000	99	716237	50.0	51.0	
172 Bis(2-ethylhexyl) phthalat	149	12.814	12.814	0.000	97	571194	50.0	67.7	
168 Di-n-octyl phthalate	149	13.322	13.322	0.000	99	945338	50.0	66.1	
174 Benzo[b]fluoranthene	252	13.599	13.599	0.000	99	773952	50.0	57.6	
175 Benzo[k]fluoranthene	252	13.621	13.621	0.000	98	736314	50.0	48.5	
177 Benzo[a]pyrene	252	13.840	13.840	0.000	99	699381	50.0	53.1	
180 Indeno[1,2,3-cd]pyrene	276	14.636	14.636	0.000	96	803492	50.0	50.1	
181 Dibenz(a,h)anthracene	278	14.646	14.646	0.000	98	673998	50.0	49.8	
182 Benzo[g,h,i]perylene	276	14.839	14.839	0.000	99	660685	50.0	48.0	

Reagents:

MB_LIST1_WRK_00522	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00039	Amount Added: 20.00	Units: uL	Run Reagent

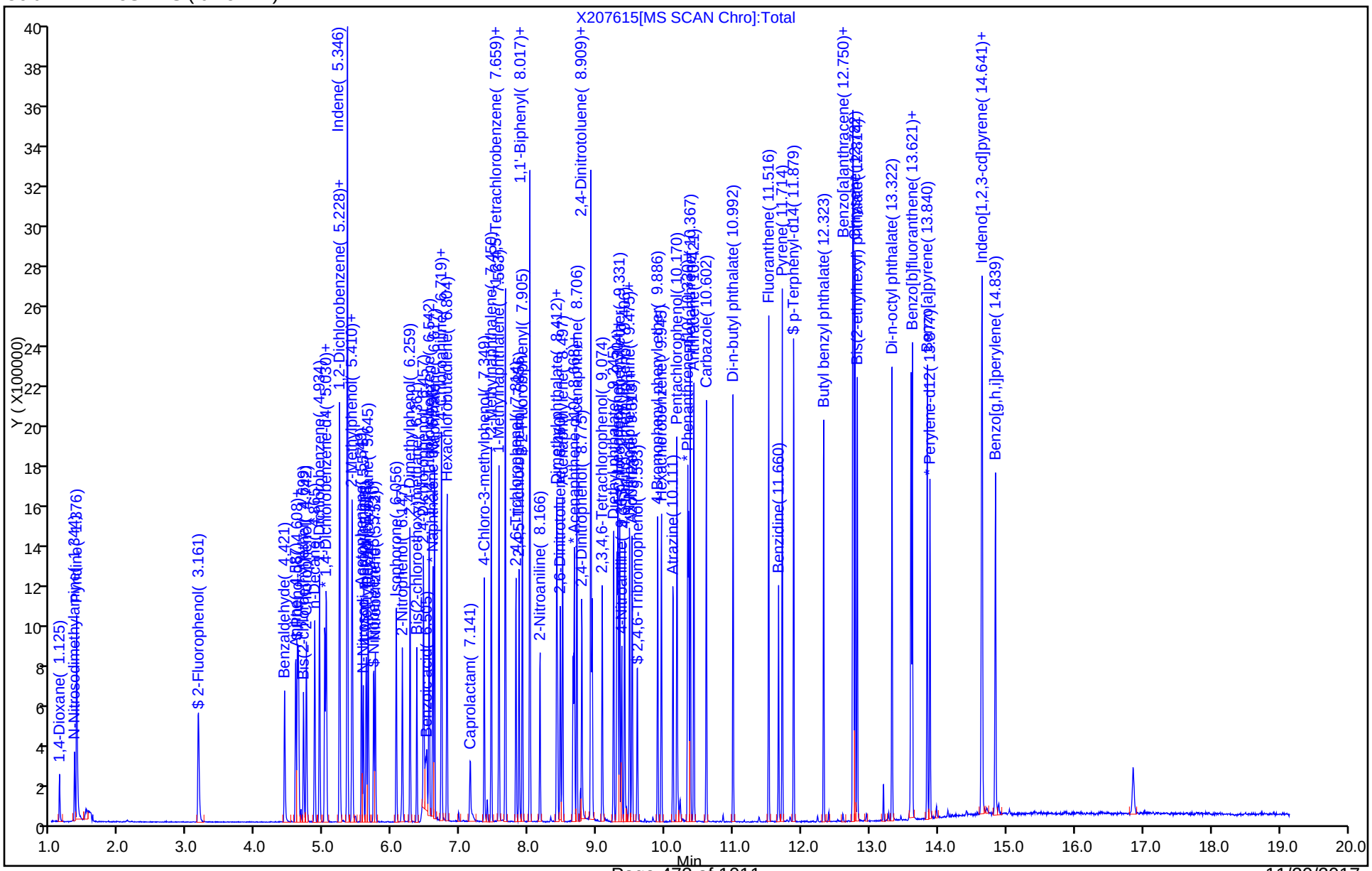
Report Date: 20-Nov-2017 11:32:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207615.D

Injection Date:	16-Nov-2017 12:54:30	Instrument ID:	HP5973X	Operator ID:	dr
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328552.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 29-Oct-2017 17:24:30 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0066819-002
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 01-Nov-2017 11:33:12 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: pagem Date: 01-Nov-2017 11:33:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	12.072	12.072	0.000	75	27667	NR	NR	
249 DFTPP									
251 4,4'-DDE	246		13.873					ND	
252 4,4'-DDD	235	13.921	13.921	0.000	40	8618		NR	
250 Benzidine_T	184	13.445	13.445	0.000	98	232349	NR	NR	
253 4,4'-DDT	235	14.199	14.199	0.000	93	109288	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

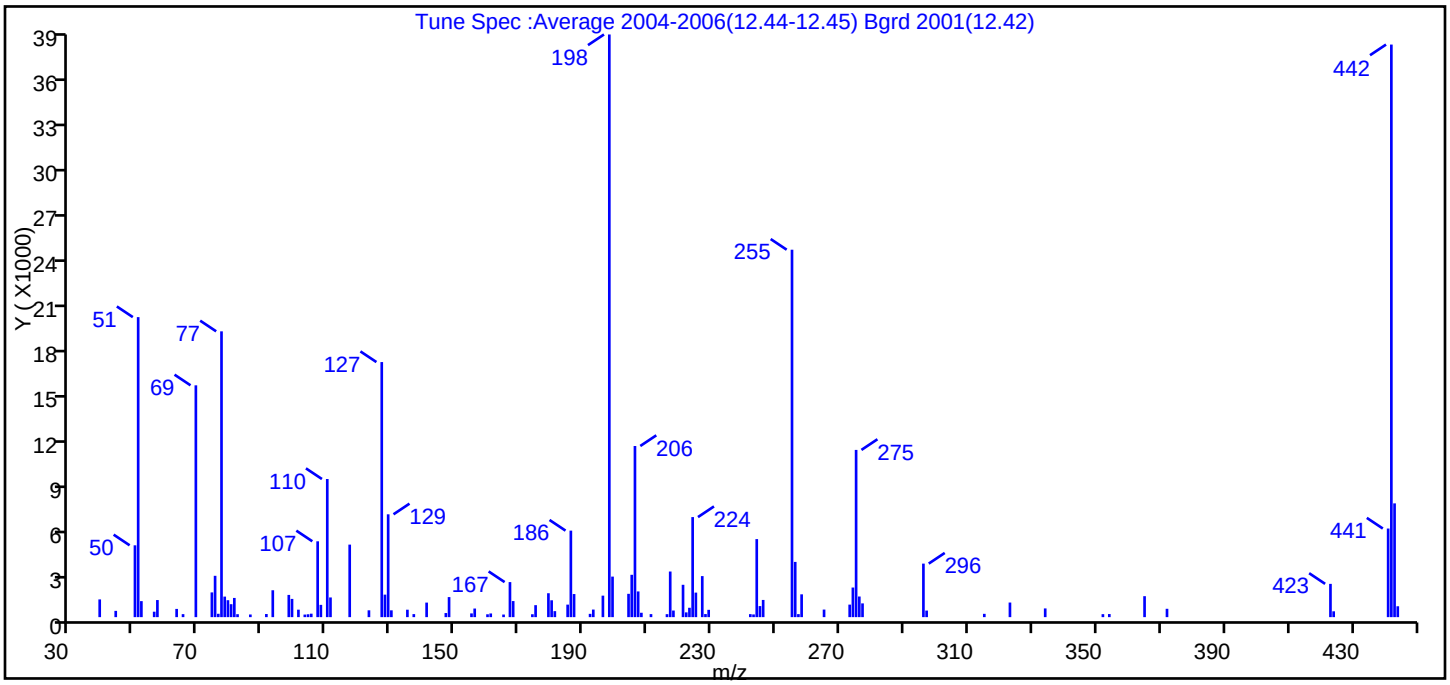
MB_DFTPP_WRK_00319 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328552.D
Injection Date: 29-Oct-2017 17:24:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (101.8)
51	10-80% of the base peak	51.5
68	<2% of mass 69	0.0 (0.0)
69	Present	39.8
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	43.8
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	28.7
365	>1% of mass 198	3.6
441	present but <24% of mass 442	15.2 (15.5)
442	base peak, or >50% of 198	98.3
443	15-24% of mass 442	19.5 (19.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328552.D\U-8270.rslt\spectra.d
Injection Date: 29-Oct-2017 17:24:30
Spectrum: Tune Spec :Average 2004-2006(12.44-12.45) Bgrd 2001(12.42)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 110

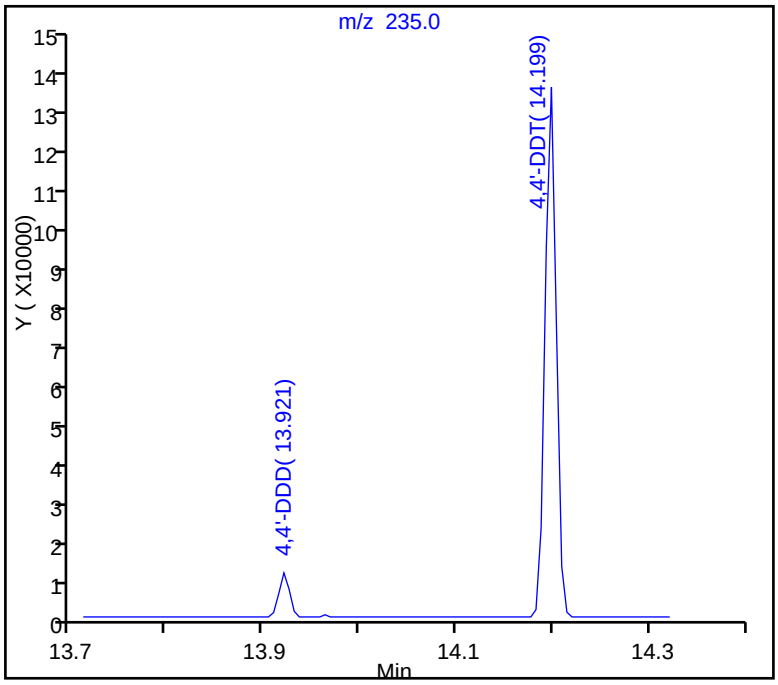
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1168	107.00	4995	186.00	5698	246.00	1133
44.00	413	108.00	809	187.00	1521	255.00	24200
50.00	4731	110.00	9097	192.00	217	256.00	3638
51.00	19760	111.00	1297	193.00	500	257.00	199
52.00	1055	117.00	4777	196.00	1416	258.00	1503
56.00	359	123.00	450	198.00	38376	265.00	499
57.00	1126	127.00	16800	199.00	2670	273.00	825
63.00	542	128.00	1483	204.00	1536	274.00	1950
65.00	198	129.00	6773	205.00	2789	275.00	11014
69.00	15268	130.00	449	206.00	11272	276.00	1359
74.00	1629	135.00	490	207.00	1693	277.00	906
75.00	2722	137.00	200	208.00	289	296.00	3526
76.00	221	141.00	958	211.00	200	297.00	433
77.00	18824	147.00	270	216.00	196	315.00	218
78.00	1353	148.00	1321	217.00	3005	323.00	962
79.00	1116	155.00	247	218.00	435	334.00	574
80.00	853	156.00	567	221.00	2131	352.00	197
81.00	1265	160.00	188	222.00	314	354.00	204
82.00	194	161.00	243	223.00	617	365.00	1381
86.00	175	165.00	172	224.00	6590	372.00	550
91.00	206	167.00	2308	225.00	1616	423.00	2192
93.00	1771	168.00	1059	227.00	2703	424.00	385
98.00	1464	174.00	191	228.00	204	441.00	5836
99.00	1201	175.00	789	229.00	482	442.00	37712
101.00	492	179.00	1575	242.00	198	443.00	7493
103.00	170	180.00	1111	243.00	179	444.00	717
104.00	189	181.00	395	244.00	5140		
105.00	228	185.00	825	245.00	728		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328552.D
Injection Date: 29-Oct-2017 17:24:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

253 4,4'-DDT, Area = 109288
252 4,4'-DDD, Area = 8618
251 4,4'-DDE, Area = 0

%Breakdown: 7.31%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

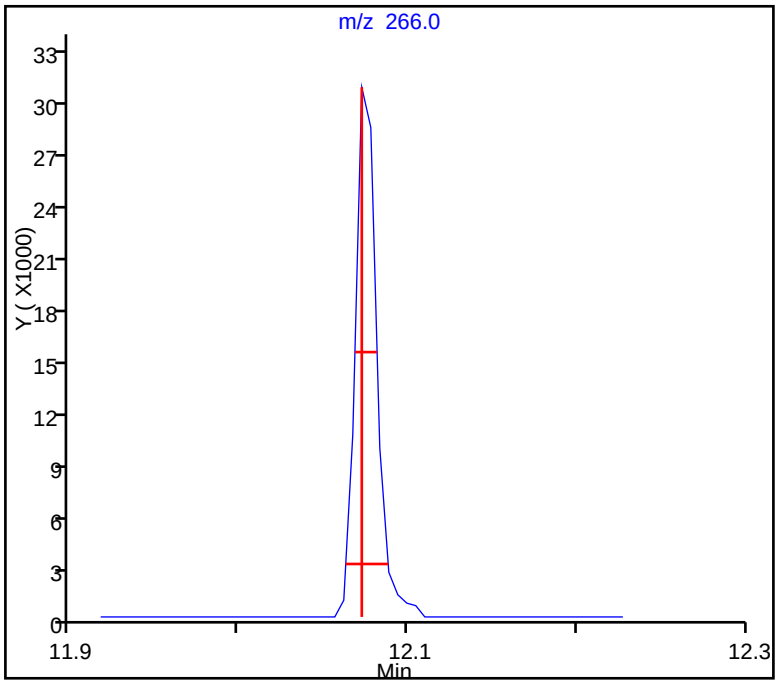
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328552.D
Injection Date: 29-Oct-2017 17:24:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.6, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

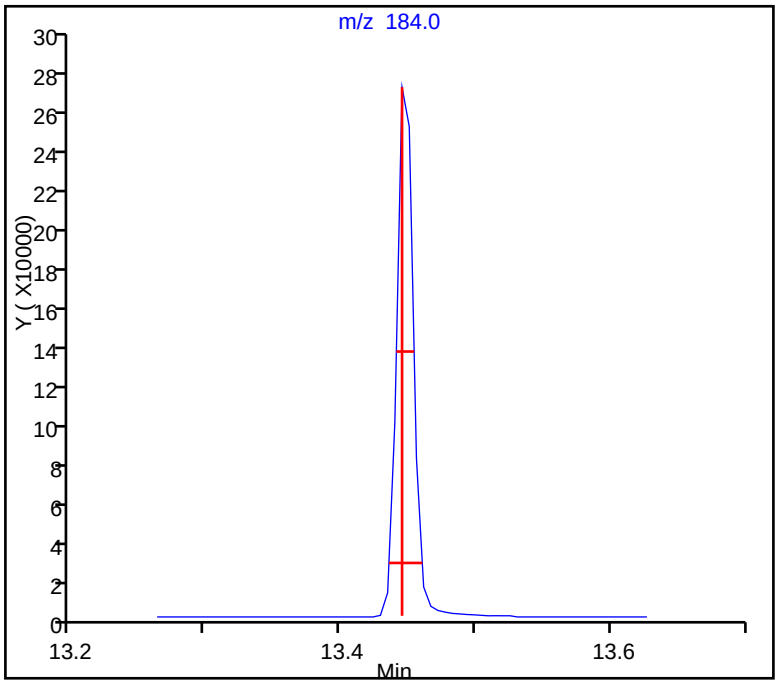
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328552.D
Injection Date: 29-Oct-2017 17:24:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328779.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 10-Nov-2017 16:33:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0067178-003
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 13-Nov-2017 14:27:17 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: richardsd Date: 10-Nov-2017 17:23:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	12.072	12.072	0.000	93	18271	NR	NR	
249 DFTPP									
250 Benzidine_T	184	13.445	13.445	0.000	99	223886	NR	NR	
251 4,4'-DDE	246		13.873					ND	
252 4,4'-DDD	235		13.921					ND	
253 4,4'-DDT	235	14.193	14.193	0.000	99	130403	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

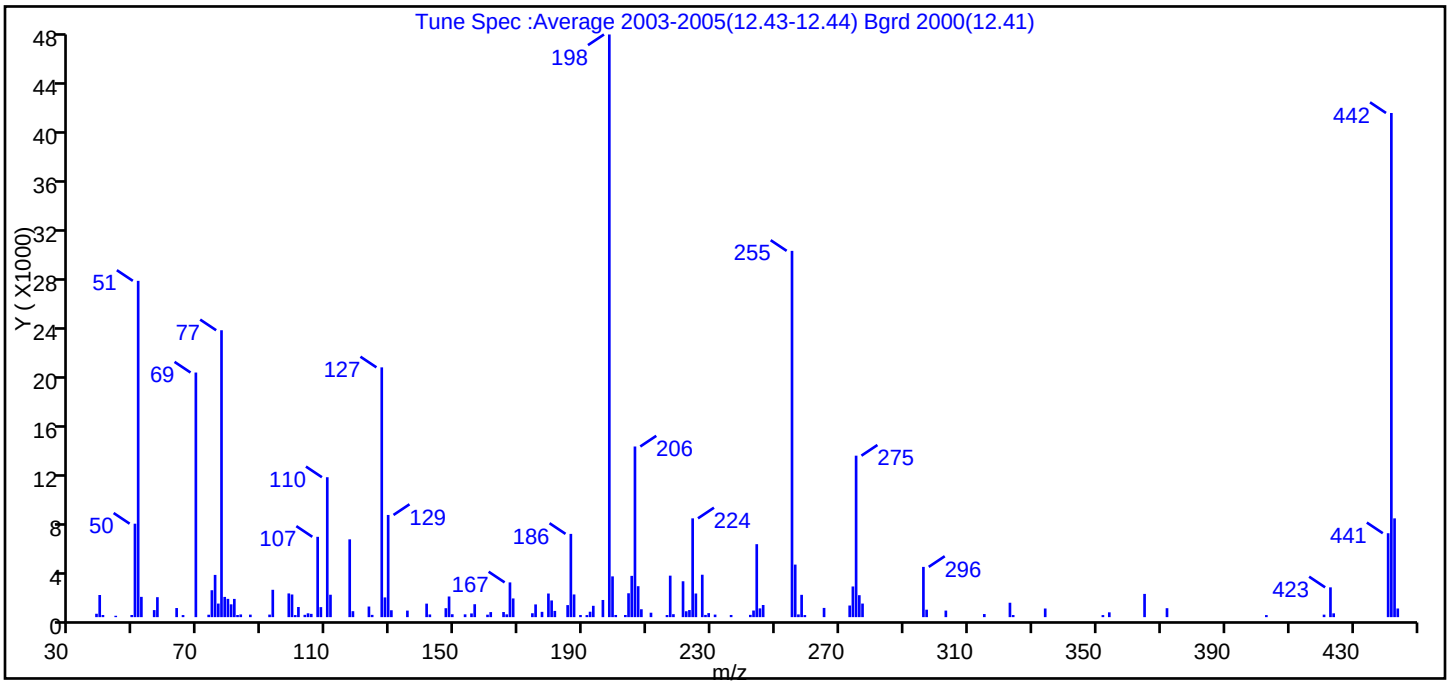
MB_DFTPP_WRK_00319 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328779.D
Injection Date: 10-Nov-2017 16:33:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (115.6)
51	10-80% of the base peak	57.7
68	<2% of mass 69	0.0 (0.0)
69	Present	42.0
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	42.9
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	27.7
365	>1% of mass 198	4.0
441	present but <24% of mass 442	14.4 (16.6)
442	base peak, or >50% of 198	86.5
443	15-24% of mass 442	17.0 (19.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328779.D\U-8270.rslt\spectra.d
Injection Date: 10-Nov-2017 16:33:30
Spectrum: Tune Spec :Average 2003-2005(12.43-12.44) Bgrd 2000(12.41)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	278	107.00	6582	186.00	6821	246.00	994
39.00	1814	108.00	821	187.00	1859	255.00	30008
40.00	176	110.00	11463	189.00	175	256.00	4306
44.00	113	111.00	1836	191.00	169	257.00	223
49.00	175	117.00	6374	192.00	444	258.00	1828
50.00	7656	118.00	489	193.00	929	259.00	171
51.00	27552	123.00	869	196.00	1406	265.00	756
52.00	1661	124.00	186	198.00	47736	273.00	953
56.00	577	127.00	20464	199.00	3340	274.00	2513
57.00	1636	128.00	1616	200.00	178	275.00	13229
63.00	746	129.00	8372	203.00	175	276.00	1798
65.00	171	130.00	565	204.00	1956	277.00	1113
69.00	20040	135.00	536	205.00	3382	296.00	4117
73.00	198	141.00	1107	206.00	13981	297.00	611
74.00	2205	142.00	220	207.00	2535	303.00	537
75.00	3460	147.00	733	208.00	647	315.00	255
76.00	1112	148.00	1692	211.00	363	323.00	1181
77.00	23504	149.00	238	216.00	172	324.00	173
78.00	1657	153.00	230	217.00	3399	334.00	708
79.00	1497	155.00	305	218.00	242	352.00	169
80.00	1050	156.00	1059	221.00	2940	354.00	394
81.00	1494	160.00	202	222.00	483	365.00	1904
82.00	176	161.00	415	223.00	581	372.00	734
83.00	222	165.00	419	224.00	8094	403.00	168
86.00	205	166.00	230	225.00	1937	421.00	205
92.00	208	167.00	2847	227.00	3475	423.00	2442
93.00	2241	168.00	1532	228.00	181	424.00	312
98.00	1943	174.00	320	229.00	329	441.00	6875
99.00	1856	175.00	1043	231.00	208	442.00	41304
100.00	169	177.00	435	236.00	177	443.00	8092
101.00	830	179.00	1936	242.00	186	444.00	709
103.00	189	180.00	1368	243.00	541		
104.00	315	181.00	511	244.00	5978		

Report Date: 13-Nov-2017 14:27:18 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328779.D\U-8270.rslt\spectra.d
Injection Date: 10-Nov-2017 16:33:30
Spectrum: Tune Spec :Average 2003-2005(12.43-12.44) Bgrd 2000(12.41)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 133

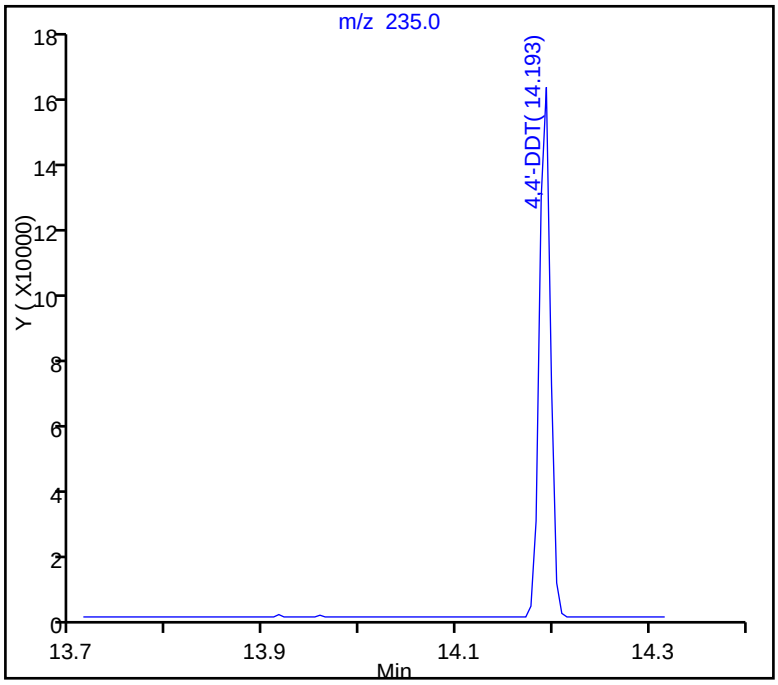
m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	269	185.00	986	245.00	718		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328779.D
Injection Date: 10-Nov-2017 16:33:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

253 4,4'-DDT, Area = 130403
252 4,4'-DDD, Area = 0
251 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

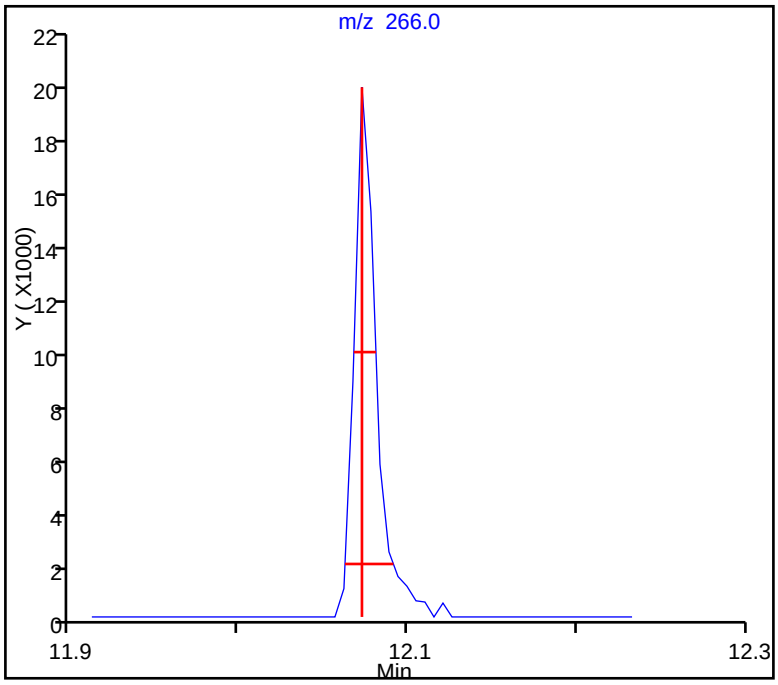
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328779.D
Injection Date: 10-Nov-2017 16:33:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.9, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

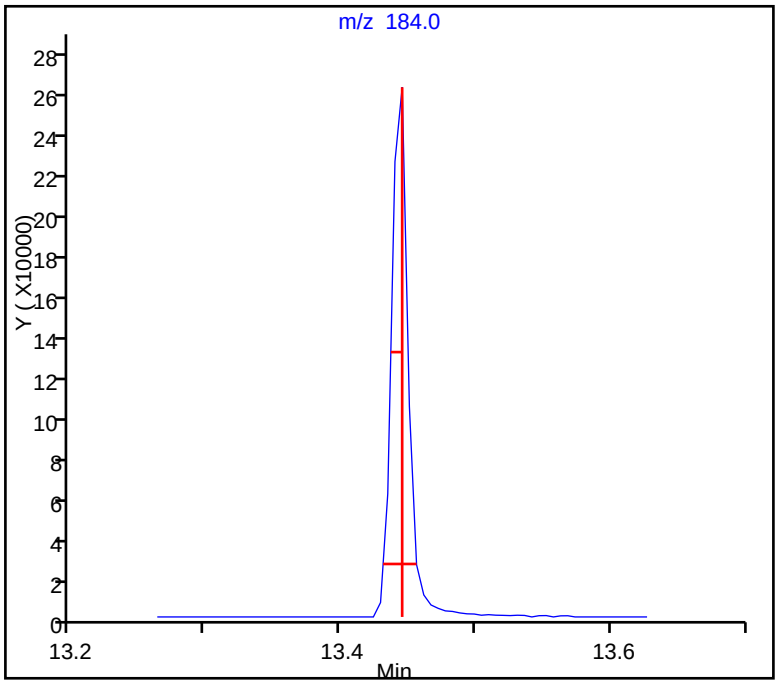
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Injection Date: 10-Nov-2017 16:33:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328814.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 13-Nov-2017 15:16:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0067222-003
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 14-Nov-2017 11:50:50 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: richardsd Date: 13-Nov-2017 17:02:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	12.072	12.072	0.000	95	36892	NR	NR	
249 DFTPP									
250 Benzidine_T	184	13.445	13.445	0.000	99	287168	NR	NR	
251 4,4'-DDE	246	13.611	13.611	0.000	1	743		NR	
252 4,4'-DDD	235		13.921				ND		
253 4,4'-DDT	235	14.193	14.193	0.000	99	165226	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

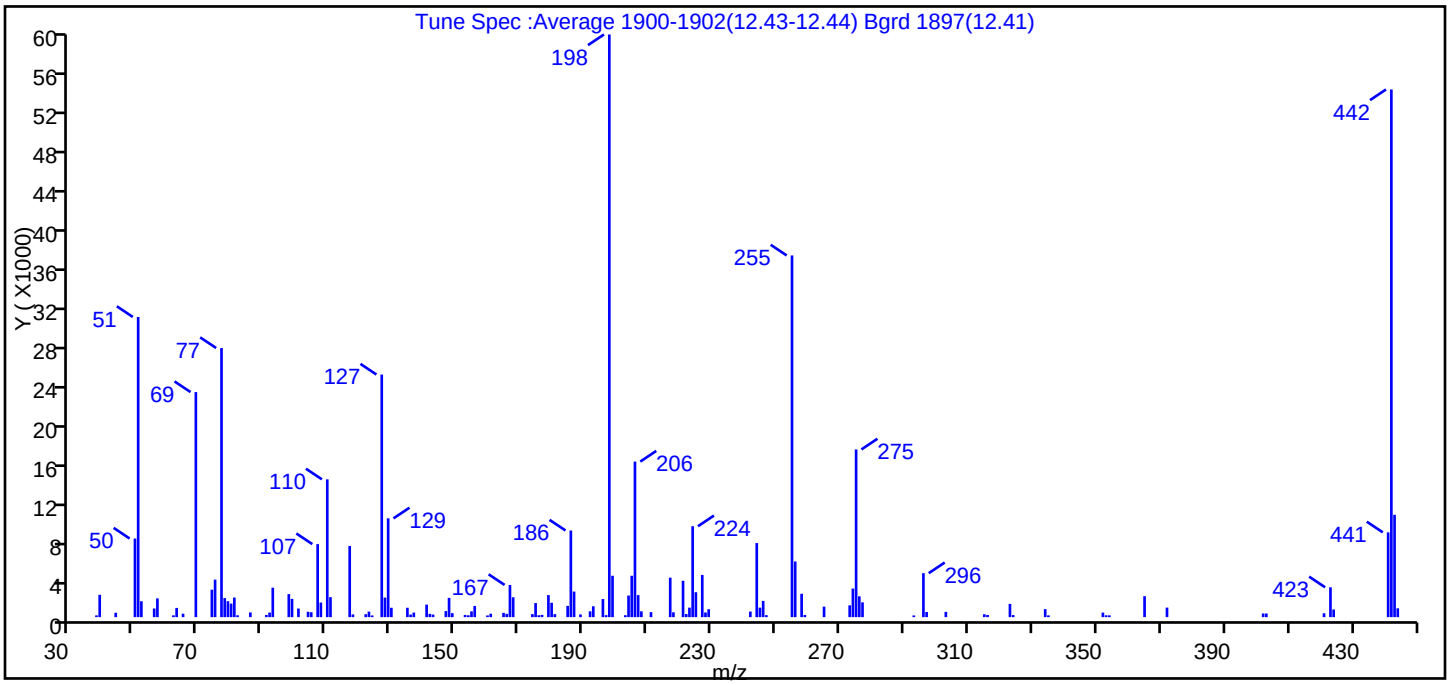
MB_DFTPP_WRK_00319 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328814.D
Injection Date: 13-Nov-2017 15:16:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (110.4)
51	10-80% of the base peak	51.5
68	<2% of mass 69	0.0 (0.0)
69	Present	38.6
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	41.6
197	<2% of mass 198	0.3
199	5-9% of mass 198	7.1
275	10-60% of the base peak	28.8
365	>1% of mass 198	3.6
441	present but <24% of mass 442	14.6 (16.1)
442	base peak, or >50% of 198	90.6
443	15-24% of mass 442	17.6 (19.4)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328814.D\U-8270.rslt\spectra.d
Injection Date: 13-Nov-2017 15:16:30
Spectrum: Tune Spec :Average 1900-1902(12.43-12.44) Bgrd 1897(12.41)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	181	118.00	277	185.00	1148	258.00	2374
39.00	2271	122.00	296	186.00	8810	259.00	223
44.00	447	123.00	562	187.00	2600	265.00	1070
50.00	7995	124.00	172	189.00	276	273.00	1199
51.00	30528	127.00	24672	192.00	593	274.00	2908
52.00	1613	128.00	1990	193.00	1106	275.00	17056
56.00	876	129.00	10046	196.00	1841	276.00	2116
57.00	1908	130.00	954	197.00	203	277.00	1503
62.00	183	135.00	955	198.00	59256	293.00	173
63.00	938	136.00	263	199.00	4209	296.00	4472
65.00	351	137.00	464	203.00	197	297.00	522
69.00	22888	141.00	1276	204.00	2200	303.00	537
74.00	2794	142.00	334	205.00	4208	315.00	291
75.00	3815	143.00	263	206.00	15820	316.00	223
77.00	27368	147.00	618	207.00	2241	323.00	1349
78.00	1933	148.00	1961	208.00	593	324.00	210
79.00	1624	149.00	406	211.00	508	334.00	811
80.00	1376	153.00	217	217.00	4015	335.00	181
81.00	1993	154.00	189	218.00	493	352.00	463
82.00	192	155.00	591	221.00	3697	353.00	188
86.00	479	156.00	1141	222.00	314	354.00	184
91.00	219	160.00	173	223.00	965	365.00	2129
92.00	465	161.00	347	224.00	9246	372.00	970
93.00	2996	165.00	436	225.00	2536	402.00	370
98.00	2344	166.00	333	227.00	4292	403.00	370
99.00	1860	167.00	3273	228.00	475	421.00	393
101.00	872	168.00	2020	229.00	806	423.00	3035
104.00	549	174.00	308	242.00	567	424.00	777
105.00	496	175.00	1432	244.00	7534	441.00	8622
107.00	7426	176.00	194	245.00	967	442.00	53664
108.00	1485	177.00	230	246.00	1651	443.00	10411
110.00	14012	179.00	2244	247.00	201	444.00	898
111.00	2033	180.00	1462	255.00	36784		

Report Date: 14-Nov-2017 11:50:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328814.D\U-8270.rslt\spectra.d
Injection Date: 13-Nov-2017 15:16:30
Spectrum: Tune Spec :Average 1900-1902(12.43-12.44) Bgrd 1897(12.41)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 134

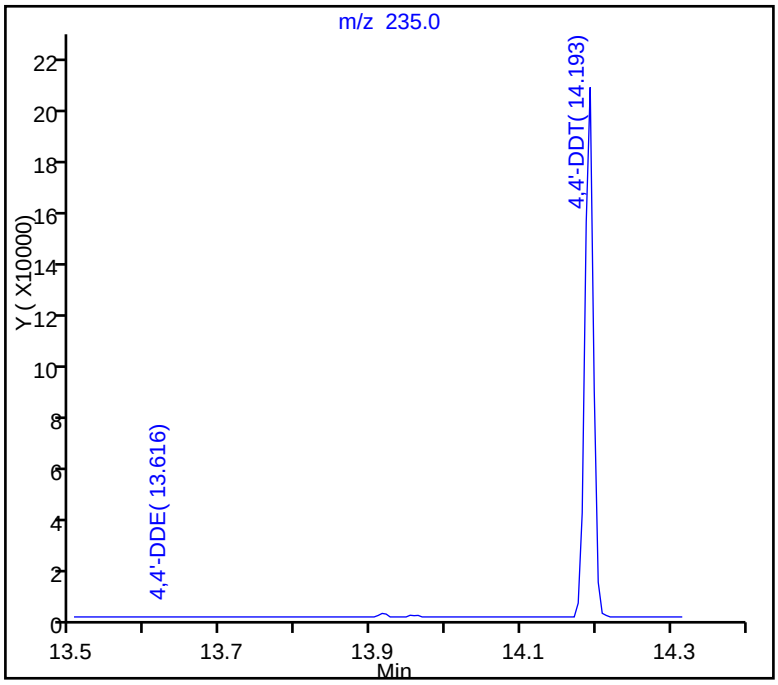
m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	7240	181.00	304	256.00	5663		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328814.D
Injection Date: 13-Nov-2017 15:16:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

253 4,4'-DDT, Area = 165226
252 4,4'-DDD, Area = 0
251 4,4'-DDE, Area = 743

%Breakdown: 0.45%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

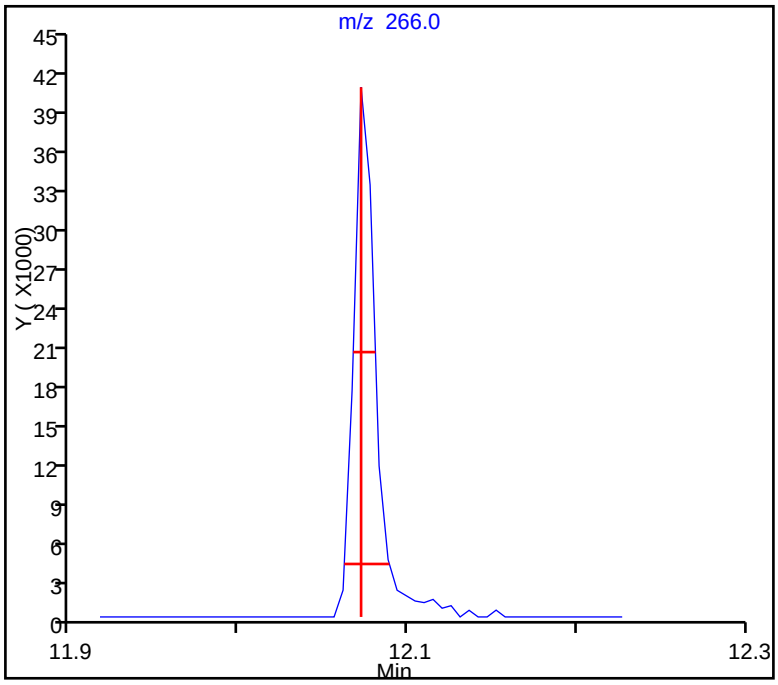
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328814.D
Injection Date: 13-Nov-2017 15:16:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.7, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

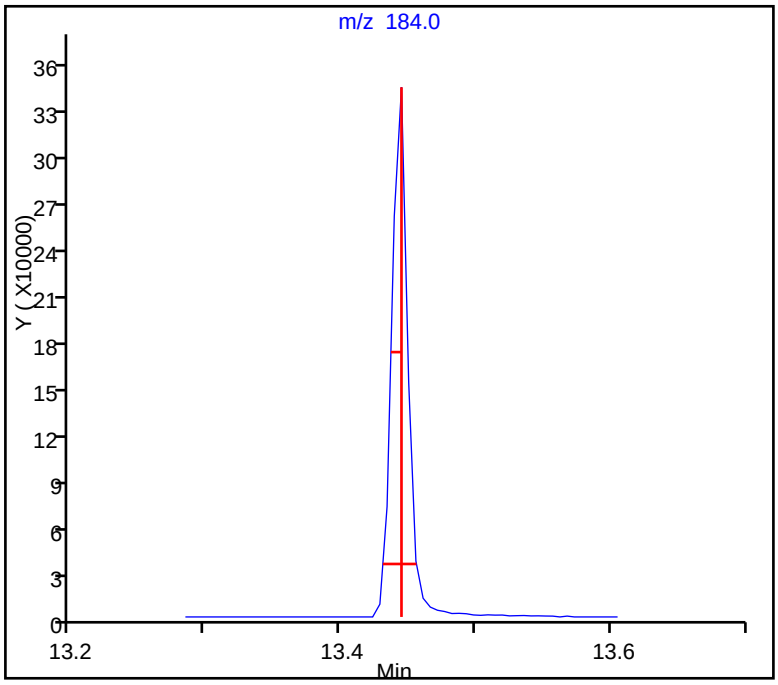
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171113-67222.b\U328814.D
Injection Date: 13-Nov-2017 15:16:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20654.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 19-Oct-2017 12:15:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: DR Instrument ID: HP5973X

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 19-Oct-2017 16:33:10 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: richardsd Date: 19-Oct-2017 16:33:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
230 Pentachlorophenol_T	266	10.481	10.481	0.000	95	59755	NR	NR	
231 DFTPP									
233 4,4'-DDE	246		11.662					ND	
232 Benzidine_T	184	11.950	11.950	0.000	100	530219	NR	NR	
234 4,4'-DDD	235		12.426					ND	
235 4,4'-DDT	235	12.672	12.672	0.000	96	316784	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

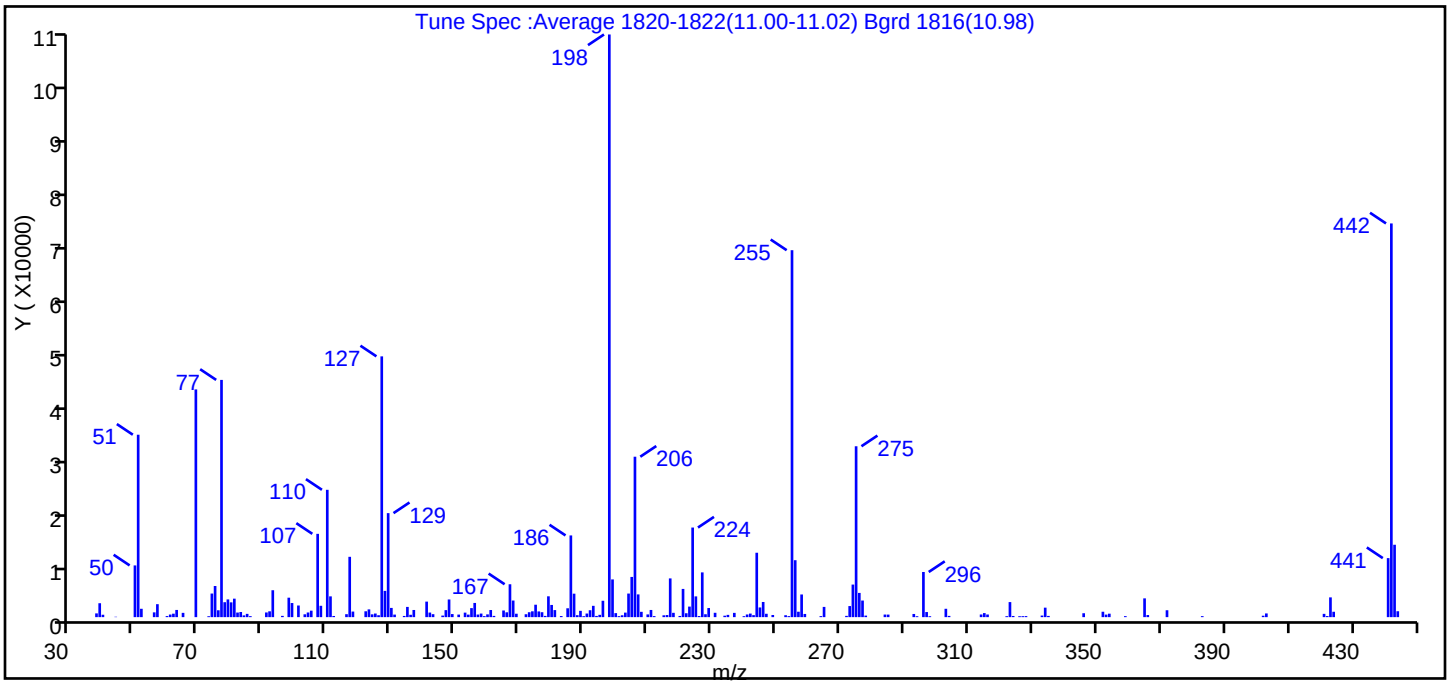
MB_DFTPP_WRK_00319 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20654.D
Injection Date: 19-Oct-2017 12:15:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

231 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (148.0)
51	10-80% of the base peak	31.3
68	<2% of mass 69	0.0 (0.0)
69	Present	39.1
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	44.8
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.5
275	10-60% of the base peak	29.3
365	>1% of mass 198	3.2
441	present but <24% of mass 442	10.1 (15.0)
442	base peak, or >50% of 198	67.6
443	15-24% of mass 442	12.4 (18.4)

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20654.D\X-8270.rslt\spectra.d
Injection Date: 19-Oct-2017 12:15:30
Spectrum: Tune Spec :Average 1820-1822(11.00-11.02) Bgrd 1816(10.98)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 204

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	698	126.00	355	192.00	1286	258.00	4215
39.00	2587	127.00	48480	193.00	2103	259.00	593
40.00	447	128.00	4882	194.00	225	264.00	191
44.00	69	129.00	19336	195.00	429	265.00	1903
50.00	9615	130.00	1716	196.00	3045	272.00	237
51.00	33912	131.00	474	198.00	108320	273.00	2060
52.00	1555	134.00	221	199.00	7015	274.00	6055
56.00	889	135.00	1902	200.00	747	275.00	31768
57.00	2411	136.00	437	201.00	188	276.00	4504
60.00	202	137.00	1332	202.00	347	277.00	3086
61.00	485	141.00	2888	203.00	842	278.00	285
62.00	643	142.00	852	204.00	4385	284.00	483
63.00	1338	143.00	550	205.00	7474	285.00	474
65.00	797	146.00	290	206.00	29824	293.00	590
69.00	42336	147.00	1303	207.00	4228	294.00	168
73.00	169	148.00	3286	208.00	990	296.00	8394
74.00	4387	149.00	571	210.00	505	297.00	947
75.00	5790	151.00	475	211.00	1334	298.00	169
76.00	1278	153.00	839	212.00	193	303.00	1555
77.00	44104	154.00	469	215.00	343	304.00	232
78.00	2775	155.00	1678	216.00	390	314.00	493
79.00	3297	156.00	2639	217.00	7201	315.00	753
80.00	2749	157.00	482	218.00	803	316.00	489
81.00	3436	158.00	666	220.00	220	322.00	178
82.00	853	159.00	187	221.00	5246	323.00	2798
83.00	953	160.00	513	222.00	725	324.00	217
84.00	326	161.00	1325	223.00	1962	326.00	172
85.00	610	162.00	231	224.00	16656	327.00	182
86.00	183	165.00	1237	225.00	3860	328.00	197
91.00	870	166.00	900	226.00	208	333.00	293
92.00	1085	167.00	6114	227.00	8319	334.00	1763
93.00	5003	168.00	3087	228.00	542	335.00	228
96.00	236	169.00	635	229.00	1693	346.00	726

Report Date: 19-Oct-2017 16:33:11 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20654.D\X-8270.rslt\spectra.d
Injection Date: 19-Oct-2017 12:15:30
Spectrum: Tune Spec :Average 1820-1822(11.00-11.02) Bgrd 1816(10.98)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 204

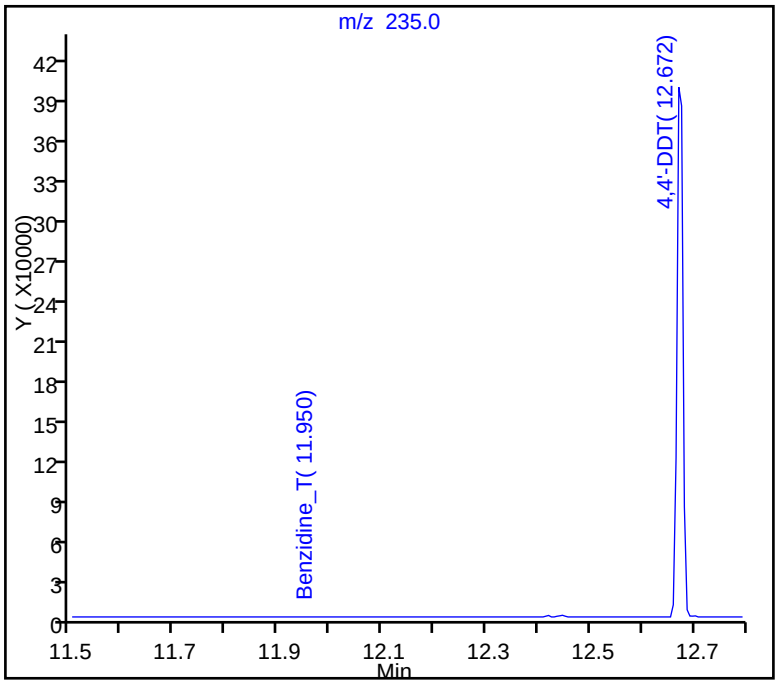
m/z	Y	m/z	Y	m/z	Y	m/z	Y
98.00	3617	172.00	540	231.00	809	352.00	1006
99.00	2624	173.00	912	234.00	268	353.00	473
101.00	2164	174.00	1085	235.00	422	354.00	644
103.00	529	175.00	2310	237.00	794	359.00	187
104.00	864	176.00	1062	240.00	178	365.00	3491
105.00	1206	177.00	916	241.00	496	366.00	391
107.00	15486	178.00	231	242.00	662	372.00	1283
108.00	2110	179.00	3873	243.00	374	383.00	186
110.00	23672	180.00	2267	244.00	11972	402.00	266
111.00	3863	181.00	1311	245.00	1803	403.00	689
112.00	214	183.00	204	246.00	2819	421.00	611
116.00	550	185.00	1649	247.00	626	422.00	203
117.00	11215	186.00	15190	249.00	399	423.00	3675
118.00	1037	187.00	4362	253.00	355	424.00	1000
122.00	1089	188.00	365	254.00	189	441.00	10973
123.00	1442	189.00	1171	255.00	68216	442.00	73192
124.00	521	190.00	174	256.00	10585	443.00	13457
125.00	670	191.00	671	257.00	1007	444.00	1098

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20654.D
Injection Date: 19-Oct-2017 12:15:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

235 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

235 4,4'-DDT, Area = 316784
234 4,4'-DDD, Area = 0
233 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

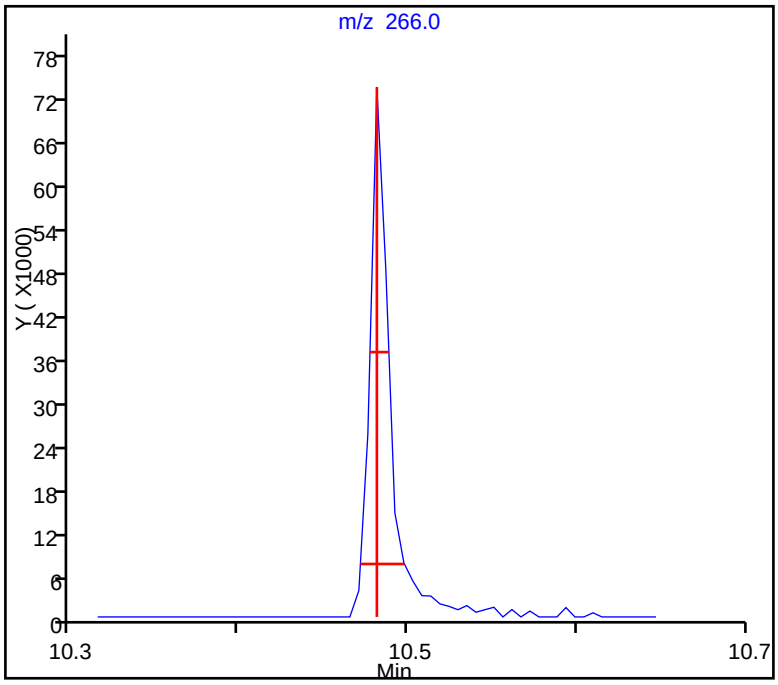
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20654.D
Injection Date: 19-Oct-2017 12:15:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

230 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.7, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

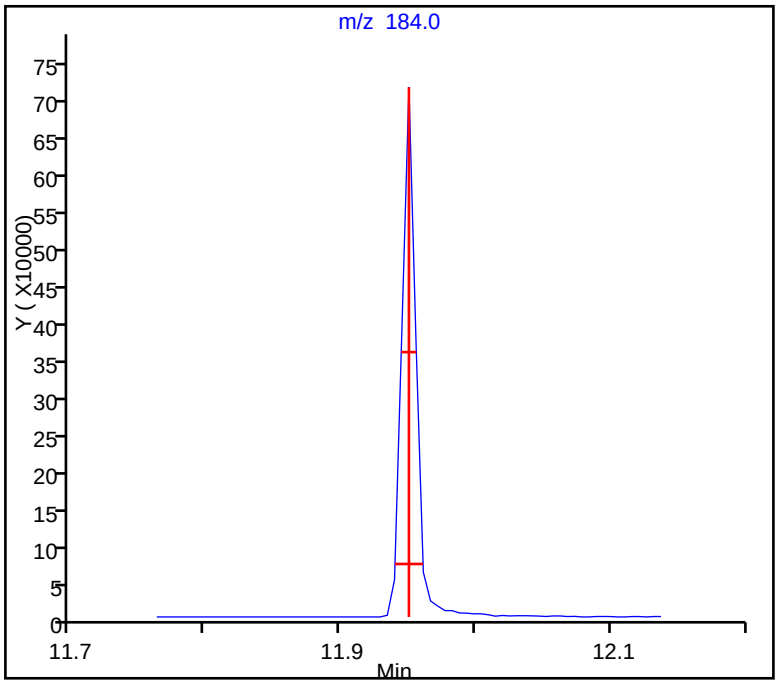
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20654.D
Injection Date: 19-Oct-2017 12:15:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

232 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207614.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 16-Nov-2017 12:28:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: dftpp
Operator ID: dr Instrument ID: HP5973X

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Nov-2017 11:32:50 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: richardsd Date: 16-Nov-2017 13:35:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
230 Pentachlorophenol_T	266	10.170	10.170	0.000	95	33042	NR	NR	
231 DFTPP									
233 4,4'-DDE	246		11.662					ND	
232 Benzidine_T	184	11.666	11.666	0.000	100	487138	NR	NR	
234 4,4'-DDD	235		12.141					ND	
235 4,4'-DDT	235	12.392	12.392	0.000	98	312113	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

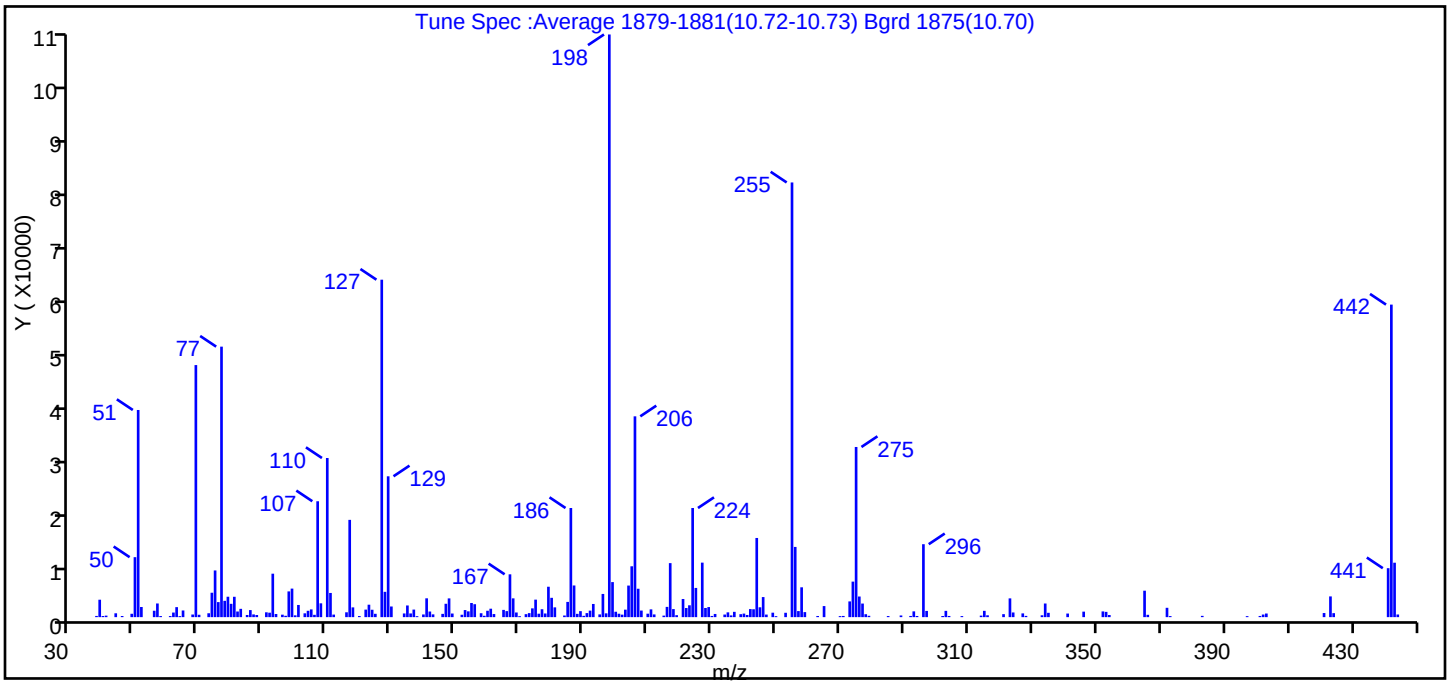
MB_DFTPP_WRK_00319 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207614.D
Injection Date: 16-Nov-2017 12:28:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: dr ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

231 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (186.4)
51	10-80% of the base peak	35.6
68	<2% of mass 69	0.4 (1.0)
69	Present	43.3
70	<2% of mass 69	0.4 (0.9)
127	10-80% of the base peak	57.9
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.0
275	10-60% of the base peak	29.2
365	>1% of mass 198	4.5
441	present but <24% of mass 442	8.4 (15.7)
442	base peak, or >50% of 198	53.6
443	15-24% of mass 442	9.3 (17.4)

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207614.D\X-8270.rslt\spectra.d
Injection Date: 16-Nov-2017 12:28:30
Spectrum: Tune Spec :Average 1879-1881(10.72-10.73) Bgrd 1875(10.70)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 223

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	207	117.00	16808	190.00	227	259.00	870
39.00	3011	118.00	1688	191.00	698	263.00	199
40.00	196	120.00	193	192.00	1125	265.00	1912
41.00	261	122.00	1301	193.00	2276	270.00	179
44.00	666	123.00	2150	195.00	474	271.00	206
46.00	196	124.00	1277	196.00	4008	273.00	2720
49.00	582	125.00	577	197.00	658	274.00	6138
50.00	10361	127.00	58304	198.00	100672	275.00	29400
51.00	35792	128.00	4374	199.00	6055	276.00	3563
52.00	1753	129.00	24336	200.00	932	277.00	2348
56.00	1106	130.00	1840	201.00	589	278.00	507
57.00	2361	134.00	637	202.00	430	279.00	231
58.00	188	135.00	2017	203.00	1294	285.00	189
61.00	188	136.00	639	204.00	5456	289.00	288
62.00	793	137.00	1307	205.00	8787	292.00	206
63.00	1729	138.00	167	206.00	34696	293.00	999
64.00	170	140.00	465	207.00	4906	294.00	200
65.00	1153	141.00	3253	208.00	1139	296.00	12602
68.00	453	142.00	972	210.00	597	297.00	1074
69.00	43552	143.00	480	211.00	1344	302.00	196
70.00	411	146.00	567	212.00	470	303.00	1085
73.00	672	147.00	2310	215.00	263	304.00	204
74.00	4217	148.00	3240	216.00	1771	308.00	182
75.00	8067	149.00	626	217.00	9333	314.00	263
76.00	2598	152.00	413	218.00	1391	315.00	1090
77.00	46736	153.00	1225	219.00	341	316.00	319
78.00	2819	154.00	1001	221.00	3136	321.00	517
79.00	3526	155.00	2443	222.00	1575	323.00	3242
80.00	2302	156.00	2235	223.00	2047	324.00	808
81.00	3518	158.00	677	224.00	18856	327.00	649
82.00	974	159.00	236	225.00	5046	328.00	217
83.00	1436	160.00	1102	227.00	9419	333.00	319
85.00	372	161.00	1458	228.00	1583	334.00	2357

Report Date: 20-Nov-2017 11:32:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207614.D\X-8270.rslt\spectra.d
Injection Date: 16-Nov-2017 12:28:30
Spectrum: Tune Spec :Average 1879-1881(10.72-10.73) Bgrd 1875(10.70)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 223

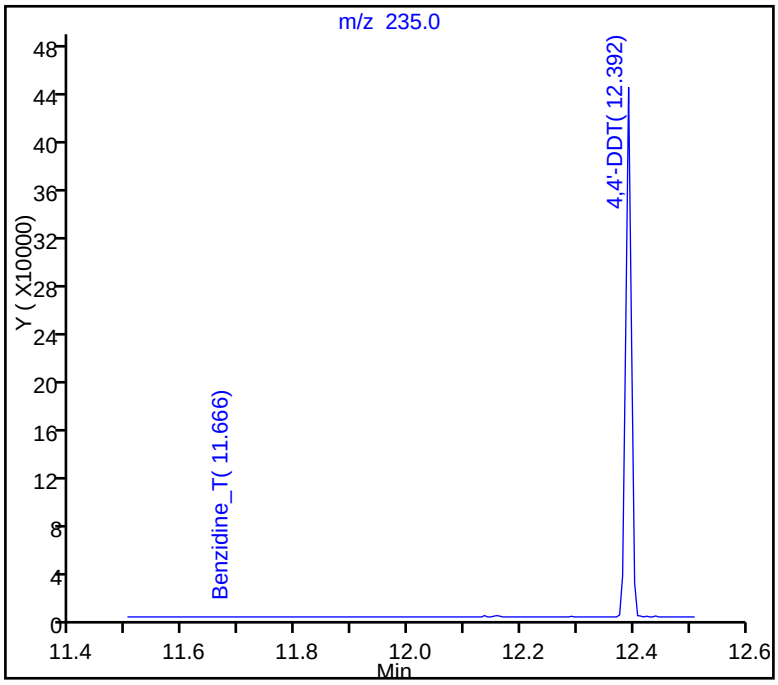
m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	1218	162.00	536	229.00	1741	335.00	747
87.00	473	165.00	1254	230.00	207	341.00	621
88.00	370	166.00	1041	231.00	549	346.00	951
91.00	837	167.00	7399	234.00	449	352.00	990
92.00	768	168.00	3246	235.00	827	353.00	910
93.00	7508	169.00	805	236.00	299	354.00	367
94.00	544	170.00	168	237.00	917	365.00	4569
96.00	426	172.00	516	239.00	514	366.00	403
97.00	234	173.00	695	240.00	612	372.00	1613
98.00	4448	174.00	1518	241.00	376	373.00	183
99.00	4931	175.00	3025	242.00	1392	383.00	222
100.00	312	176.00	592	243.00	1363	397.00	175
101.00	2103	177.00	1366	244.00	13679	401.00	203
103.00	659	178.00	631	245.00	1702	402.00	450
104.00	1098	179.00	5254	246.00	3468	403.00	626
105.00	1338	180.00	3339	247.00	443	421.00	711
106.00	401	181.00	1690	249.00	770	423.00	3582
107.00	20024	184.00	281	250.00	169	424.00	689
108.00	2388	185.00	2632	253.00	754	441.00	8458
110.00	27496	186.00	18856	255.00	75104	442.00	54000
111.00	4178	187.00	5471	256.00	12132	443.00	9405
112.00	442	188.00	569	257.00	1048	444.00	457
116.00	838	189.00	1034	258.00	5156		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207614.D
Injection Date: 16-Nov-2017 12:28:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: dr ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

235 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

235 4,4'-DDT, Area = 312113
234 4,4'-DDD, Area = 0
233 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

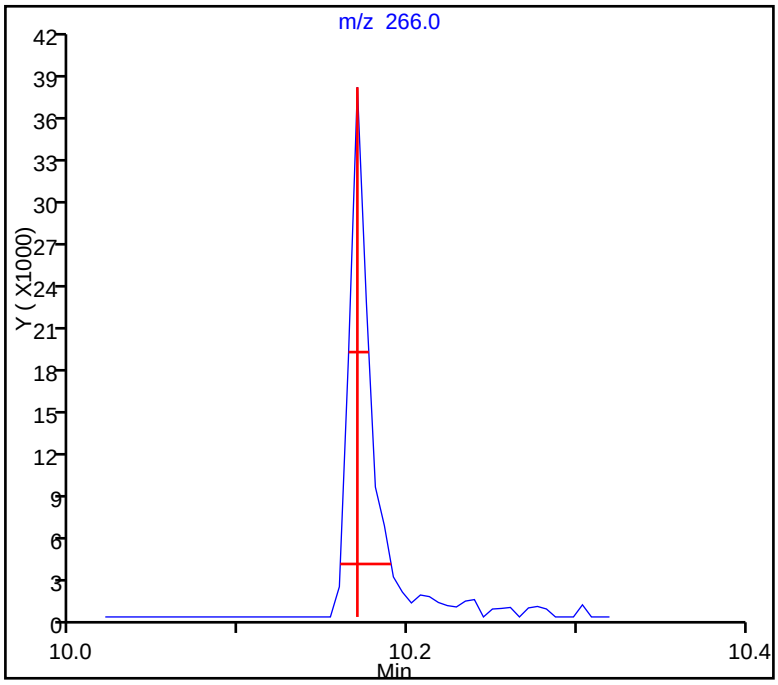
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207614.D
Injection Date: 16-Nov-2017 12:28:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: dr ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

230 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 2.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

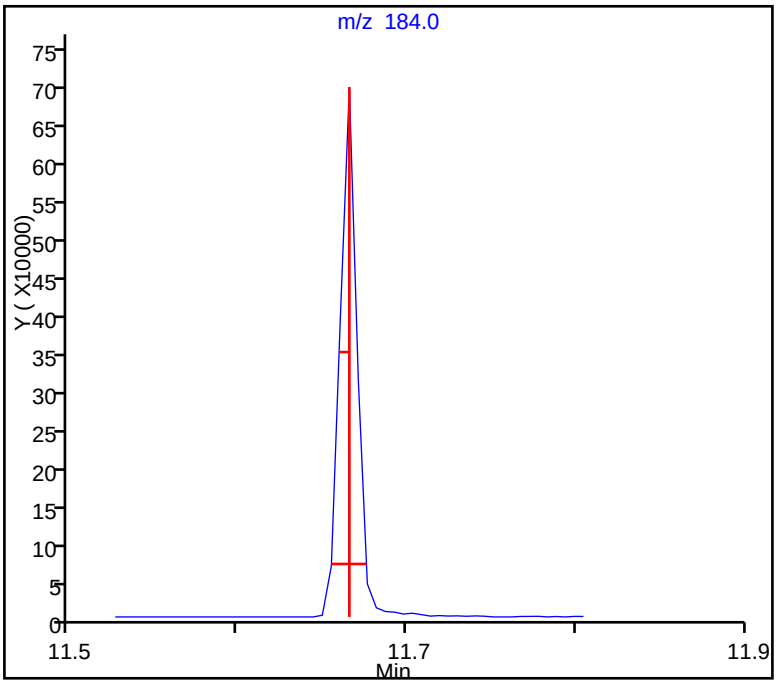
Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207614.D
Injection Date: 16-Nov-2017 12:28:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: dr ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

232 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-386401/1-A

Matrix: Solid | Lab File ID: U328784.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.74(g) | Date Analyzed: 11/10/2017 17:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		170	24
108-60-1	bis (2-chloroisopropyl) ether	ND		170	33
95-95-4	2,4,5-Trichlorophenol	ND		170	45
88-06-2	2,4,6-Trichlorophenol	ND		170	33
120-83-2	2,4-Dichlorophenol	ND		170	18
105-67-9	2,4-Dimethylphenol	ND		170	40
51-28-5	2,4-Dinitrophenol	ND		1600	770
121-14-2	2,4-Dinitrotoluene	ND		170	34
606-20-2	2,6-Dinitrotoluene	ND		170	20
91-58-7	2-Chloronaphthalene	ND		170	27
95-57-8	2-Chlorophenol	ND		170	30
91-57-6	2-Methylnaphthalene	ND		170	33
95-48-7	2-Methylphenol	ND		170	20
88-74-4	2-Nitroaniline	ND		320	24
88-75-5	2-Nitrophenol	ND		170	47
91-94-1	3,3'-Dichlorobenzidine	ND		320	200
99-09-2	3-Nitroaniline	ND		320	46
534-52-1	4,6-Dinitro-2-methylphenol	ND		320	170
101-55-3	4-Bromophenyl phenyl ether	ND		170	23
59-50-7	4-Chloro-3-methylphenol	ND		170	41
106-47-8	4-Chloroaniline	ND		170	41
7005-72-3	4-Chlorophenyl phenyl ether	ND		170	20
106-44-5	4-Methylphenol	ND		320	20
100-01-6	4-Nitroaniline	ND		320	87
100-02-7	4-Nitrophenol	ND		320	120
83-32-9	Acenaphthene	ND		170	24
208-96-8	Acenaphthylene	ND		170	21
98-86-2	Acetophenone	ND		170	22
120-12-7	Anthracene	ND		170	41
1912-24-9	Atrazine	ND		170	58
100-52-7	Benzaldehyde	ND		170	130
56-55-3	Benzo(a)anthracene	ND		170	17
50-32-8	Benzo(a)pyrene	ND		170	24
205-99-2	Benzo(b)fluoranthene	ND		170	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-386401/1-A

Matrix: Solid | Lab File ID: U328784.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.74(g) | Date Analyzed: 11/10/2017 17:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		170	18
207-08-9	Benzo(k)fluoranthene	ND		170	21
111-91-1	Bis(2-chloroethoxy)methane	ND		170	35
111-44-4	Bis(2-chloroethyl)ether	ND		170	21
117-81-7	Bis(2-ethylhexyl) phthalate	ND		170	57
85-68-7	Butyl benzyl phthalate	ND		170	27
105-60-2	Caprolactam	ND		170	50
86-74-8	Carbazole	ND		170	20
218-01-9	Chrysene	ND		170	37
84-74-2	Di-n-butyl phthalate	ND		170	28
117-84-0	Di-n-octyl phthalate	ND		170	20
53-70-3	Dibenz(a,h)anthracene	ND		170	29
132-64-9	Dibenzofuran	ND		170	20
84-66-2	Diethyl phthalate	ND		170	21
131-11-3	Dimethyl phthalate	ND		170	20
206-44-0	Fluoranthene	ND		170	18
86-73-7	Fluorene	ND		170	20
118-74-1	Hexachlorobenzene	ND		170	22
87-68-3	Hexachlorobutadiene	ND		170	24
77-47-4	Hexachlorocyclopentadiene	ND		170	22
67-72-1	Hexachloroethane	ND		170	21
193-39-5	Indeno(1,2,3-cd)pyrene	ND		170	20
78-59-1	Isophorone	ND		170	35
621-64-7	N-Nitrosodi-n-propylamine	ND		170	28
86-30-6	N-Nitrosodiphenylamine	ND		170	130
91-20-3	Naphthalene	ND		170	21
98-95-3	Nitrobenzene	ND		170	19
87-86-5	Pentachlorophenol	ND		320	170
85-01-8	Phenanthrene	ND		170	24
108-95-2	Phenol	ND		170	25
129-00-0	Pyrene	ND		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-386401/1-A

Matrix: Solid | Lab File ID: U328784.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.74(g) | Date Analyzed: 11/10/2017 17:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	55		54-120
321-60-8	2-Fluorobiphenyl	76		60-120
367-12-4	2-Fluorophenol	65		52-120
4165-60-0	Nitrobenzene-d5	67		53-120
1718-51-0	p-Terphenyl-d14	101		65-121
4165-62-2	Phenol-d5	69		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328784.D
Lims ID: MB 480-386401/1-A
Client ID:
Sample Type: MB
Inject. Date: 10-Nov-2017 17:53:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0067178-006
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 13-Nov-2017 14:22:24 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: richardsd Date: 13-Nov-2017 11:14:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	96	87591	40.0	40.0	
* 2 Naphthalene-d8	136	8.733	8.739	-0.006	99	318902	40.0	40.0	
* 3 Acenaphthene-d10	164	10.763	10.769	-0.006	97	163382	40.0	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	98	315469	40.0	40.0	
* 5 Chrysene-d12	240	14.711	14.712	-0.001	97	383877	40.0	40.0	
* 6 Perylene-d12	264	16.490	16.490	0.000	99	353045	40.0	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	95	75783	40.0	25.9	
$ 8 Phenol-d5	99	6.730	6.730	0.000	96	99988	40.0	27.7	
$ 9 Nitrobenzene-d5	82	7.862	7.863	-0.001	95	93511	40.0	27.0	
$ 10 2-Fluorobiphenyl	172	9.983	9.984	-0.001	100	193685	40.0	30.4	
$ 11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	95	21404	40.0	21.9	
$ 12 p-Terphenyl-d14	244	13.669	13.670	-0.001	99	278759	40.0	40.3	
13 3-Chloropyridine	1		0.700					ND	
18 2-Chloropyridine	1		0.700					ND	
16 Lidocaine	1		0.700					ND	
22 Chlorotoluene N.O.S	1		0.700					ND	
17 4-Chloropyridine	1		0.700					ND	
21 N-Methylaniline	1		0.700					ND	
19 Chlorobenzotrifluoride N.O	1		0.700					ND	
20 2-Chlorotoluene	91		0.700					ND	
15 5-Ethyl-5-phenyl barbituri	1		0.700					ND	
14 o-Anisidine	1		0.700					ND	
23 1,4-Dioxane	88		3.418					ND	
24 N-Nitrosodimethylamine	42		3.840					ND	
25 Pyridine	52		3.942					ND	
26 2-Picoline	93		4.951					ND	
27 N-Nitrosomethylethylamine	88		5.047					ND	
28 Acrylamide	71		5.330					ND	
29 Methyl methanesulfonate	80		5.416					ND	
30 N-Nitrosodiethylamine	102		5.929					ND	
31 Ethyl methanesulfonate	79		6.249					ND	
32 Benzaldehyde	77		6.703					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
33 Phenol	94		6.746					ND	
34 Aniline	93		6.821					ND	
35 Bis(2-chloroethyl)ether	93		6.869					ND	
36 Pentachloroethane	167		6.906					ND	
37 2-Chlorophenol	128		6.981					ND	
38 n-Decane	57		7.003					ND	
39 1,3-Dichlorobenzene	146		7.168					ND	
51 4-Methylbenzenamine	106		7.216					ND	
40 1,4-Dichlorobenzene	146		7.248					ND	
41 Benzyl alcohol	108		7.350					ND	
42 1,2-Dichlorobenzene	146		7.435					ND	
43 2-Methylphenol	108		7.467					ND	
44 2,2'-oxybis[1-chloropropan	45		7.505					ND	
45 Indene	115		7.537					ND	
48 N-Nitrosopyrrolidine	100		7.633					ND	
46 4-Methylphenol	108		7.638					ND	
47 N-Nitrosodi-n-propylamine	70		7.654					ND	
50 N-Nitrosomorpholine	56		7.670					ND	
57 2,4-Dichlorotoluene	125		7.670					ND	
49 Acetophenone	105		7.676					ND	
58 2-Chloroaniline	127		7.713					ND	
52 2-Toluidine	106		7.724					ND	
61 1,3,5-Trichlorobenzene	180		7.782					ND	
53 Hexachloroethane	117		7.847					ND	
65 Tetraethyl lead	237		7.873					ND	
54 Nitrobenzene	77		7.884					ND	
55 N-Nitrosopiperidine	114		8.055					ND	
69 4-Chlorophenol	128		8.151					ND	
56 Isophorone	82		8.157					ND	
71 Alpha-Terpineol	59		8.237					ND	
59 2-Nitrophenol	139		8.269					ND	
60 2,4-Dimethylphenol	107		8.274					ND	
63 o,o',o''-Triethylphosphoro	198		8.349					ND	
64 Benzoic acid	105		8.370					ND	
62 Bis(2-chloroethoxy)methane	93		8.381					ND	
304 1,3-Dibromobenzene TIC	236		8.546					ND	
67 2,4-Dichlorophenol	162		8.547					ND	
66 alpha,alpha-Dimethyl phene	58		8.557					ND	
305 1,4-Dibromobenzene TIC	236		8.589					ND	
68 1,2,4-Trichlorobenzene	180		8.659					ND	
70 Naphthalene	128		8.760					ND	
72 4-Chloroaniline	127		8.792					ND	
73 2,6-Dichlorophenol	162		8.814					ND	
75 Hexachloropropene	213		8.878					ND	
74 Hexachlorobutadiene	225		8.904					ND	
82 2,4,5-Trichlorotoluene	159		9.022					ND	
84 Phthalic anhydride	104		9.107					ND	
77 Quinoline	129		9.145					ND	
78 N-Nitrosodi-n-butylamine	84		9.171					ND	
76 Caprolactam	113		9.172					ND	
79 p-Phenylene diamine	108		9.198					ND	
80 4-Chloro-3-methylphenol	107		9.337					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
90 2,3-Dichlorobenzenamine	161		9.396					ND	
81 Safrole, Total	162		9.444					ND	
83 2-Methylnaphthalene	142		9.578					ND	
96 1,2,3,4 -Tetrachlorobenzen	216		9.609					ND	
85 1-Methylnaphthalene	142		9.700					ND	
86 Hexachlorocyclopentadiene	237		9.775					ND	
87 1,2,4,5-Tetrachlorobenzene	216		9.781					ND	
88 Isosafrole Peak 1	162		9.791					ND	
100 Dicyclohexylamine	138		9.866					ND	
89 2,4,6-Trichlorophenol	196		9.893					ND	
91 2,4,5-Trichlorophenol	196		9.941					ND	
93 Isosafrole Peak 2	162		10.053					ND	
92 Isosafrole	162		10.053					ND	
94 1,1'-Biphenyl	154		10.106					ND	
95 2-Chloronaphthalene	162		10.149					ND	
97 1-Chloronaphthalene	162		10.181					ND	
98 2-Nitroaniline	65		10.235					ND	
99 1,4-Naphthoquinone	158		10.325					ND	
101 1,4-Dinitrobenzene	168		10.363					ND	
102 Dimethyl phthalate	163		10.411					ND	
103 1,3-Dinitrobenzene	168		10.454					ND	
104 2,6-Dinitrotoluene	165		10.486					ND	
105 Acenaphthylene	152		10.614					ND	
110 n,n'-Dimethylaniline	120		10.665					ND	
106 3-Nitroaniline	138		10.678					ND	
107 2,4-Dinitrophenol	184		10.790					ND	
108 Acenaphthene	153		10.801					ND	
109 4-Nitrophenol	109		10.833					ND	
126 Tributyl phosphate	99		10.919					ND	
111 2,4-Dinitrotoluene	165		10.924					ND	
113 Pentachlorobenzene	250		10.950					ND	
112 Dibenzofuran	168		10.983					ND	
115 2,3,5,6-Tetrachlorophenol	232		11.057					ND	
114 1-Naphthylamine	143		11.057					ND	
116 2,3,4,6-Tetrachlorophenol	232		11.100					ND	
117 2-Naphthylamine	143		11.132					ND	
118 Diethyl phthalate	149		11.154					ND	
119 Hexadecane	57		11.164					ND	
120 Thionazin	97		11.244					ND	
121 4-Chlorophenyl phenyl ethe	204		11.308					ND	
124 N-Nitro-o-toluidine	152		11.319					ND	
122 4-Nitroaniline	138		11.325					ND	
123 Fluorene	166		11.335					ND	
125 4,6-Dinitro-2-methylphenol	198		11.357					ND	
127 N-Nitrosodiphenylamine	169		11.421					ND	
128 Diphenylamine	169		11.421					ND	
142 Simazine	201		11.453					ND	
130 Azobenzene	77		11.469					ND	
129 1,2-Diphenylhydrazine	77		11.469					ND	
131 Sulfotepp	322		11.549					ND	
132 1,3,5-Trinitrobenzene	213		11.639					ND	
133 Diallate	43		11.698					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
135 Phenacetin	108		11.698					ND	
134 Diallate Peak 1	43		11.698					ND	
136 Phorate	75		11.709					ND	
138 Diallate Peak 2	43		11.794					ND	
137 4-Bromophenyl phenyl ether	248		11.800					ND	
140 Dimethoate	87		11.875					ND	
139 Hexachlorobenzene	284		11.901					ND	
141 Atrazine	200		11.912					ND	
145 4-Aminobiphenyl	169		12.051					ND	
144 n-Octadecane	57		12.062					ND	
143 Pentachlorophenol	266		12.072					ND	
146 Pronamide	173		12.078					ND	
147 Pentachloronitrobenzene	237		12.094					ND	
153 Alachlor	160		12.126					ND	
148 Disulfoton	88		12.206					ND	
149 Dinoseb	211		12.216					ND	
150 Phenanthrene	178		12.286					ND	
151 Anthracene	178		12.329					ND	
156 2-Methylanthracene	192		12.339					ND	
152 Carbazole	167		12.457					ND	
154 Methyl parathion	109		12.558					ND	
159 Anthraquinone	180		12.559					ND	
155 Di-n-butyl phthalate	149		12.708					ND	
157 Ethyl Parathion	97		12.900					ND	
163 1-Hydroxyanthraquinone	224		12.943					ND	
158 4-Nitroquinoline-1-oxide	190		12.970					ND	
160 Methapyrilene	58		13.007					ND	
161 Isodrin	193		13.253					ND	
170 1,4-Dihydroxyanthraquinone	240		13.355					ND	
162 Fluoranthene	202		13.376					ND	
164 Benzidine	184		13.445					ND	
173 Famphur	218		13.579					ND	
165 Pyrene	202		13.590					ND	
174 9-Octadecenamide	72		13.600					ND	
166 Aramite Peak 1	185		13.605					ND	
167 Aramite, Total	185		13.670					ND	
168 Aramite Peak 2	185		13.670					ND	
176 Kepone	272		13.739					ND	
169 p-Dimethylamino azobenzene	120		13.792					ND	
171 Chlorobenzilate	139		13.814					ND	
172 Butyl benzyl phthalate	149		14.060					ND	
175 3,3'-Dimethylbenzidine	212		14.092					ND	
177 2-Acetylaminofluorene	181		14.332					ND	
178 Bis(2-ethylhexyl) phthalat	149		14.551					ND	
180 4,4'-Methylene bis(2-chlor	231		14.610					ND	
179 3,3'-Dichlorobenzidine	252		14.615					ND	
181 Benzo[a]anthracene	228		14.695					ND	
182 Chrysene	228		14.738					ND	
183 Di-n-octyl phthalate	149		15.208					ND	
184 6-Methylchrysene	242		15.219					ND	
189 Benzo[e]pyrene	252		15.561					ND	
188 Hexachlorophene	196		15.740					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
186 7,12-Dimethylbenz(a)anthra	256		15.919					ND	
185 Benzo[b]fluoranthene	252		15.940					ND	
187 Benzo[k]fluoranthene	252		15.978					ND	
190 Benzo[a]pyrene	252		16.410					ND	
191 3-Methylcholanthrene	252		16.907					ND	
192 Dibenz[a,h]acridine	279		17.842					ND	
193 Dibenz(a,h)anthracene	278		18.312					ND	
194 Indeno[1,2,3-cd]pyrene	276		18.323					ND	
195 Benzo[g,h,i]perylene	276		18.894					ND	
196 Dibenzo[a,e]pyrene	302		22.022					ND	
197 2-Aminopyridine TIC	1		0.000					ND	
235 5-Methyl-o-Anisidine	1		0.700					ND	
228 2,6-Dichloropyridine	1		0.700					ND	
231 1,2,3-Trimethylbenzene	105		0.700					ND	
240 4-Chloro-3-nitro-alpha,alp	1		0.700					ND	
226 Dibenz(a,i)pyrene	1		0.700					ND	
225 alpha,alpha-Dimethyl phene	1		0.700					ND	
227 4-tert-Octylphenol	1		0.700					ND	
234 4,4'-Methylene bis(2-chlor	1		0.700					ND	
229 Benzophenone	1		0.700					ND	
210 Benzeneacetic acid (TIC)	1		0.700					ND	
233 Tetramethyl lead TIC	1		0.700					ND	
230 1,4-Dioxane TIC	1		0.700					ND	
243 Phenylacetic Acid	1		0.700					ND	
209 CBF-500	1		0.700					ND	
247 Hexamethyldisiloxane TIC	1		0.700					ND	
212 Dibenz[a,j]acridine	279		0.700					ND	
245 Tris(2,3-dibromopropyl)pho	1		0.700					ND	
244 2,4-Xylidine TIC	1		0.700					ND	
237 CAG-800	1		0.700					ND	
242 4-Chlorobenzotrifluoride	1		0.700					ND	
241 2,4-Dichlorotoluene TIC	1		0.700					ND	
246 2,3-Dichlorophenol	1		0.700					ND	
239 2-Chlorobenzotrifluoride T	1		0.700					ND	
238 CU-600	1		0.700					ND	
216 3-Chlorobenzotrifluoride T	1		0.700					ND	
205 Octachlorostyrene	1		0.700					ND	
204 1-Methylcyclopentanol	1		0.700					ND	
203 CN-500	1		0.700					ND	
236 o-Anisidine TIC	1		0.700					ND	
201 3-Chlorotoluene	1		0.700					ND	
220 Dibenzo[a,h]pyrene	1		0.700					ND	
221 Pendimethalin	1		0.700					ND	
198 n,n'-Dimethylacetamide	1		0.700					ND	
232 Benzeneacetonitrile	1		0.700					ND	
202 Phenyl ether	1		0.700					ND	
199 CBF-400	1		0.700					ND	
208 2,4-Toluene diamine	1		0.700					ND	
207 3-Chlorobenzotrifluoride	1		0.700					ND	
206 Phenylmercaptan	110		0.700					ND	
223 p-Fluoroaniline	1		0.700					ND	
218 2,6-Dichlorotoluene	1		0.700					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
211 1,3-phenylenediamine TIC	1		0.700					ND	
214 2,6-Dichlorotoluene TIC	1		0.700					ND	
215 1-Bromopropane	1		0.700					ND	
200 Photomirex TIC	1		0.700					ND	
213 4-Chlorotoluene	91		0.700					ND	
224 NVF-400	1		0.700					ND	
217 2-Chlorobenzotrifluoride	1		0.700					ND	
219 5-Methyl-o-Anisidine TIC	1		0.700					ND	
222 7H-Dibenzo[c,g]carbazole	1		0.700					ND	
S 255 EPH Adjustment 1	1		0.700					ND	
S 256 3-Methylphenol	1		0.700					ND	
S 254 Total Cresols	1		0.700					ND	
S 257 3 & 4 Methylphenol	108		0.700					ND	
T 312 Fluorobenzene TIC	96		2.654					ND	
T 317 1-Bromo-2-chloroethane TIC	63		3.493					ND	
T 306 Ethylene Dibromide TIC	107		4.695					ND	
T 307 4-Chlorobenzotrifluoride T	180		5.245					ND	
T 314 1-Bromo-3-fluorobenzene TI	95		5.988					ND	
T 310 4-Bromofluorobenzene TIC	174		6.116					ND	
T 311 1,2-dichloro-4-(trifluorom	214		6.768					ND	
T 313 2-Bromopyridine TIC	78		7.099					ND	
T 308 3-Nitro-4-Chlorobenzotrifl	179		8.124					ND	
T 315 1-Bromo-4-ethylbenzene TIC	169		8.146					ND	
T 316 3-Amino-4-Chlorobenzotrifl	195		8.162					ND	
T 309 3'-Bromoacetophenone TIC	183		9.460					ND	
T 263 2,3,7,8-TCDD	322		10.700					ND	

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

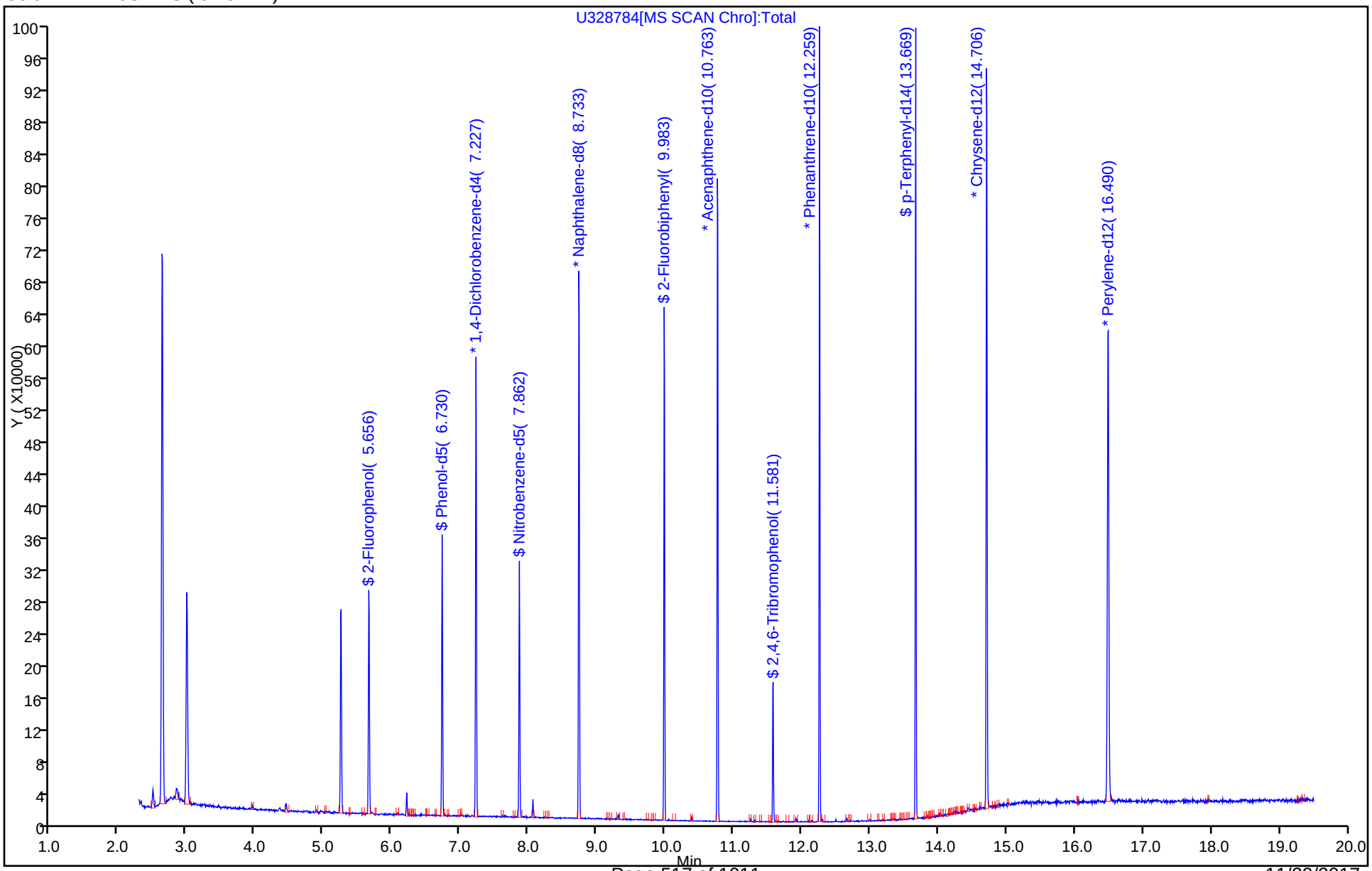
Report Date: 13-Nov-2017 14:27:10 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328784.D

Injection Date:	10-Nov-2017 17:53:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	MB 480-386401/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-387560/1-A

Matrix: Solid | Lab File ID: X207621.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.42(g) | Date Analyzed: 11/16/2017 15:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		170	25
108-60-1	bis (2-chloroisopropyl) ether	ND		170	34
95-95-4	2,4,5-Trichlorophenol	ND		170	45
88-06-2	2,4,6-Trichlorophenol	ND		170	34
120-83-2	2,4-Dichlorophenol	ND		170	18
105-67-9	2,4-Dimethylphenol	ND		170	40
51-28-5	2,4-Dinitrophenol	ND		1600	770
121-14-2	2,4-Dinitrotoluene	ND		170	35
606-20-2	2,6-Dinitrotoluene	ND		170	20
91-58-7	2-Chloronaphthalene	ND		170	28
95-57-8	2-Chlorophenol	ND		170	31
91-57-6	2-Methylnaphthalene	ND		170	34
95-48-7	2-Methylphenol	ND		170	20
88-74-4	2-Nitroaniline	ND		330	25
88-75-5	2-Nitrophenol	ND		170	47
91-94-1	3,3'-Dichlorobenzidine	ND		330	200
99-09-2	3-Nitroaniline	ND		330	46
534-52-1	4,6-Dinitro-2-methylphenol	ND		330	170
101-55-3	4-Bromophenyl phenyl ether	ND		170	24
59-50-7	4-Chloro-3-methylphenol	ND		170	41
106-47-8	4-Chloroaniline	ND		170	41
7005-72-3	4-Chlorophenyl phenyl ether	ND		170	21
106-44-5	4-Methylphenol	ND		330	20
100-01-6	4-Nitroaniline	ND		330	88
100-02-7	4-Nitrophenol	ND		330	120
83-32-9	Acenaphthene	ND		170	25
208-96-8	Acenaphthylene	ND		170	22
98-86-2	Acetophenone	ND		170	23
120-12-7	Anthracene	ND		170	41
1912-24-9	Atrazine	ND		170	58
100-52-7	Benzaldehyde	ND		170	130
56-55-3	Benzo(a)anthracene	ND		170	17
50-32-8	Benzo(a)pyrene	ND		170	25
205-99-2	Benzo(b)fluoranthene	ND		170	27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-387560/1-A

Matrix: Solid | Lab File ID: X207621.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.42(g) | Date Analyzed: 11/16/2017 15:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		170	18
207-08-9	Benzo(k)fluoranthene	ND		170	22
111-91-1	Bis(2-chloroethoxy)methane	ND		170	36
111-44-4	Bis(2-chloroethyl)ether	ND		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	ND		170	57
85-68-7	Butyl benzyl phthalate	ND		170	28
105-60-2	Caprolactam	ND		170	50
86-74-8	Carbazole	ND		170	20
218-01-9	Chrysene	ND		170	37
84-74-2	Di-n-butyl phthalate	ND		170	29
117-84-0	Di-n-octyl phthalate	ND		170	20
53-70-3	Dibenz(a,h)anthracene	ND		170	30
132-64-9	Dibenzofuran	ND		170	20
84-66-2	Diethyl phthalate	ND		170	22
131-11-3	Dimethyl phthalate	ND		170	20
206-44-0	Fluoranthene	ND		170	18
86-73-7	Fluorene	ND		170	20
118-74-1	Hexachlorobenzene	ND		170	23
87-68-3	Hexachlorobutadiene	ND		170	25
77-47-4	Hexachlorocyclopentadiene	ND		170	23
67-72-1	Hexachloroethane	ND		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		170	21
78-59-1	Isophorone	ND		170	36
621-64-7	N-Nitrosodi-n-propylamine	ND		170	29
86-30-6	N-Nitrosodiphenylamine	ND		170	140
91-20-3	Naphthalene	ND		170	22
98-95-3	Nitrobenzene	ND		170	19
87-86-5	Pentachlorophenol	ND		330	170
85-01-8	Phenanthrene	ND		170	25
108-95-2	Phenol	ND		170	26
129-00-0	Pyrene	ND		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-387560/1-A

Matrix: Solid | Lab File ID: X207621.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.42(g) | Date Analyzed: 11/16/2017 15:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	81		54-120
321-60-8	2-Fluorobiphenyl	83		60-120
367-12-4	2-Fluorophenol	73		52-120
4165-60-0	Nitrobenzene-d5	84		53-120
1718-51-0	p-Terphenyl-d14	117		65-121
4165-62-2	Phenol-d5	77		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207621.D
Lims ID: MB 480-387560/1-A
Client ID:
Sample Type: MB
Inject. Date: 16-Nov-2017 15:33:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0067330-010
Operator ID: dr Instrument ID: HP5973X

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Nov-2017 11:33:08 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: richardsd Date: 16-Nov-2017 18:46:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.030	5.030	0.000	96	223270	40.0	40.0	
* 2 Naphthalene-d8	136	6.617	6.606	0.011	99	783657	40.0	40.0	
* 3 Acenaphthene-d10	164	8.679	8.674	0.005	93	382680	40.0	40.0	
* 4 Phenanthrene-d10	188	10.351	10.346	0.005	99	758224	40.0	40.0	
* 5 Chrysene-d12	240	12.771	12.766	0.005	99	647948	40.0	40.0	
* 6 Perylene-d12	264	13.888	13.888	0.000	99	432685	40.0	40.0	
$ 7 2-Fluorophenol	112	3.182	3.161	0.021	94	211446	40.0	29.3	
$ 8 Phenol-d5	99	4.624	4.608	0.016	93	269633	40.0	30.9	
$ 9 Nitrobenzene-d5	82	5.746	5.730	0.016	93	266817	40.0	33.4	
$ 10 2-Fluorobiphenyl	172	7.926	7.905	0.022	100	529003	40.0	33.4	
$ 11 2,4,6-Tribromophenol	330	9.598	9.593	0.005	94	69535	40.0	32.3	
$ 12 p-Terphenyl-d14	244	11.890	11.879	0.011	99	591327	40.0	46.7	
199 2-Chlorotoluene	91		-0.700					ND	
213 Chlorobenzotrifluoride N.O	1		-0.700					ND	
191 N-Methylaniline	1		-0.700					ND	
204 Chlorotoluene N.O.S	1		-0.700					ND	
211 5-Ethyl-5-phenyl barbituri	1		-0.700					ND	
205 Lidocaine	1		-0.700					ND	
15 1,4-Dioxane	88		1.125					ND	
16 N-Nitrosodimethylamine	42		1.344					ND	
17 Pyridine	52		1.376					ND	
18 2-Picoline	93		2.382					ND	
19 N-Nitrosomethylethylamine	88		2.558					ND	
20 Methyl methanesulfonate	80		3.098					ND	
21 Acrylamide	44		3.146					ND	
24 N-Nitrosodiethylamine	102		3.712					ND	
22 4-Chloropyridine	78		3.828					ND	
23 3-Chloropyridine	78		3.908					ND	
25 Ethyl methanesulfonate	79		4.187					ND	
26 2-Chloropyridine	78		4.400					ND	
27 Benzaldehyde	77		4.421					ND	
29 Aniline	93		4.587					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
28 Phenol	94		4.624					ND	
31 Bis(2-chloroethyl)ether	93		4.699					ND	
32 2-Chlorophenol	128		4.742					ND	
30 Pentachloroethane	167		4.812					ND	
35 n-Decane	57		4.865					ND	
36 1,3-Dichlorobenzene	146		4.934					ND	
37 1,4-Dichlorobenzene	146		5.036					ND	
34 n,n'-Dimethylaniline	120		5.162					ND	
39 1,2-Dichlorobenzene	146		5.228					ND	
38 Benzyl alcohol	108		5.233					ND	
33 p-Fluoroaniline	111		5.259					ND	
229 Indene	115		5.346					ND	
42 2,2'-oxybis[1-chloropropan	45		5.410					ND	
40 2-Methylphenol	108		5.410					ND	
45 Acetophenone	105		5.549					ND	
47 N-Nitrosodi-n-propylamine	70		5.575					ND	
46 4-Methylphenol	108		5.618					ND	
49 4-Methylbenzenamine	106		5.629					ND	
50 Hexachloroethane	117		5.645					ND	
43 N-Nitrosopyrrolidine	100		5.683					ND	
44 N-Nitrosomorpholine	56		5.742					ND	
52 Nitrobenzene	77		5.752					ND	
48 2-Toluidine	106		5.763					ND	
51 o-Anisidine	108		5.906					ND	
53 2,6-Dichloropyridine	112		5.996					ND	
56 Isophorone	82		6.056					ND	
212 2,4-Dichlorotoluene	125		6.093					ND	
54 N-Nitrosopiperidine	114		6.100					ND	
57 2-Chloroaniline	127		6.126					ND	
58 2-Nitrophenol	139		6.147					ND	
206 1,3,5-Trichlorobenzene	180		6.211					ND	
59 2,4-Dimethylphenol	107		6.259					ND	
61 Tetraethyl lead	237		6.297					ND	
62 Bis(2-chloroethoxy)methane	93		6.361					ND	
65 2,4-Dichlorophenol	162		6.457					ND	
60 o,o',o''-Triethylphosphoro	198		6.490					ND	
64 Benzoic acid	105		6.505					ND	
67 1,2,4-Trichlorobenzene	180		6.542					ND	
69 Naphthalene	128		6.617					ND	
63 alpha,alpha-Dimethyl phene	58		6.655					ND	
299 1,3-Dibromobenzene TIC	236		6.676					ND	
41 Alpha-Terpineol	59		6.681					ND	
184 4-Chlorophenol	128		6.708					ND	
66 5-Methyl-o-Anisidine	122		6.716					ND	
71 4-Chloroaniline	127		6.719					ND	
70 2,6-Dichlorophenol	162		6.724					ND	
300 1,4-Dibromobenzene TIC	236		6.724					ND	
73 Hexachlorobutadiene	225		6.804					ND	
72 Hexachloropropene	213		6.896					ND	
78 Caprolactam	113		7.141					ND	
74 Quinoline	129		7.179					ND	
77 p-Phenylene diamine	108		7.297					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
76 N-Nitrosodi-n-butylamine	84		7.302					ND	
79 4-Chloro-3-methylphenol	107		7.349					ND	
82 2-Methylnaphthalene	142		7.450					ND	
267 2,4,5-Trichlorotoluene	159		7.466					ND	
80 Safrole, Total	162		7.532					ND	
55 Phthalic anhydride	104		7.552					ND	
83 1-Methylnaphthalene	142		7.563					ND	
84 Hexachlorocyclopentadiene	237		7.653					ND	
85 1,2,4,5-Tetrachlorobenzene	216		7.659					ND	
269 2,3-Dichlorobenzenamine	161		7.803					ND	
86 2,4,6-Trichlorophenol	196		7.814					ND	
87 2,4,5-Trichlorophenol	196		7.856					ND	
292 Isosafrole Peak 1	162		7.873					ND	
90 1,1'-Biphenyl	154		8.017					ND	
91 2-Chloronaphthalene	162		8.017					ND	
270 1,2,3,4 -Tetrachlorobenzen	216		8.033					ND	
89 Isosafrole	162		8.141					ND	
294 Isosafrole Peak 2	162		8.141					ND	
93 2-Nitroaniline	65		8.166					ND	
92 1-Chloronaphthalene	162		8.194					ND	
68 Dicyclohexylamine	138		8.279					ND	
94 1,4-Naphthoquinone	158		8.386					ND	
96 Dimethyl phthalate	163		8.412					ND	
97 1,3-Dinitrobenzene	168		8.423					ND	
99 2,6-Dinitrotoluene	165		8.460					ND	
95 1,4-Dinitrobenzene	168		8.477					ND	
100 Acenaphthylene	152		8.497					ND	
101 3-Nitroaniline	138		8.652					ND	
102 Acenaphthene	153		8.706					ND	
103 2,4-Dinitrophenol	184		8.775					ND	
107 Dibenzofuran	168		8.909					ND	
104 4-Nitrophenol	109		8.909					ND	
106 2,4-Dinitrotoluene	165		8.930					ND	
105 Pentachlorobenzene	250		9.022					ND	
110 2,3,4,6-Tetrachlorophenol	232		9.074					ND	
108 1-Naphthylamine	143		9.156					ND	
109 2,3,5,6-Tetrachlorophenol	232		9.177					ND	
112 Diethyl phthalate	149		9.245					ND	
111 2-Naphthylamine	143		9.246					ND	
138 Hexadecane	57		9.288					ND	
115 Fluorene	166		9.304					ND	
116 4-Chlorophenyl phenyl ethe	204		9.336					ND	
118 4-Nitroaniline	138		9.363					ND	
119 4,6-Dinitro-2-methylphenol	198		9.406					ND	
114 Thionazin	97		9.465					ND	
120 N-Nitrosodiphenylamine	169		9.480					ND	
121 Diphenylamine	169		9.480					ND	
117 N-Nitro-o-toluidine	152		9.492					ND	
122 Azobenzene	77		9.513					ND	
123 1,2-Diphenylhydrazine	77		9.513					ND	
81 Tributyl phosphate	99		9.523					ND	
124 Sulfotepp	322		9.845					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
130 4-Bromophenyl phenyl ether	248		9.892					ND	
131 Hexachlorobenzene	284		9.945					ND	
125 1,3,5-Trinitrobenzene	213		9.957					ND	
295 Diallate Peak 1	43		9.962					ND	
127 Diallate	43		9.962					ND	
128 Phorate	75		9.968					ND	
129 Phenacetin	108		10.010					ND	
297 Diallate Peak 2	43		10.053					ND	
88 Simazine	201		10.079					ND	
133 Atrazine	200		10.116					ND	
132 Dimethoate	87		10.149					ND	
134 Pentachlorophenol	266		10.170					ND	
135 4-Aminobiphenyl	169		10.315					ND	
136 Pentachloronitrobenzene	237		10.320					ND	
113 n-Octadecane	57		10.330					ND	
141 Phenanthrene	178		10.367					ND	
137 Pronamide	173		10.411					ND	
142 Anthracene	178		10.421					ND	
140 Disulfoton	88		10.523					ND	
139 Dinoseb	211		10.523					ND	
143 Carbazole	167		10.602					ND	
98 Alachlor	160		10.779					ND	
144 Methyl parathion	109		10.892					ND	
271 2-Methylanthracene	192		10.966					ND	
145 Di-n-butyl phthalate	149		10.992					ND	
148 Anthraquinone	180		11.169					ND	
147 4-Nitroquinoline-1-oxide	190		11.271					ND	
146 Ethyl Parathion	97		11.271					ND	
149 Methapyrilene	58		11.367					ND	
151 Isodrin	193		11.506					ND	
152 Fluoranthene	202		11.516					ND	
153 1-Hydroxyanthraquinone	224		11.564					ND	
150 Octachlorostyrene	308		11.564					ND	
154 Benzidine	184		11.660					ND	
155 Pyrene	202		11.714					ND	
157 1,4-Dihydroxyanthraquinone	240		11.975					ND	
293 Aramite Peak 1	185		12.008					ND	
296 Aramite Peak 2	185		12.072					ND	
156 Aramite, Total	185		12.072					ND	
158 p-Dimethylamino azobenzene	120		12.131					ND	
159 Chlorobenzilate	139		12.179					ND	
160 Famphur	218		12.269					ND	
162 Butyl benzyl phthalate	149		12.323					ND	
126 Kepone	272		12.323					ND	
163 9-Octadecenamide	72		12.349					ND	
161 3,3'-Dimethylbenzidine	212		12.425					ND	
164 2-Acetylaminofluorene	181		12.639					ND	
166 3,3'-Dichlorobenzidine	252		12.745					ND	
167 Benzo[a]anthracene	228		12.750					ND	
169 Chrysene	228		12.782					ND	
172 Bis(2-ethylhexyl) phthalat	149		12.814					ND	
165 4,4'-Methylene bis(2-chlor	231		12.874					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
170 6-Methylchrysene	242		13.280					ND	
168 Di-n-octyl phthalate	149		13.322					ND	
174 Benzo[b]fluoranthene	252		13.599					ND	
175 Benzo[k]fluoranthene	252		13.621					ND	
173 7,12-Dimethylbenz(a)anthra	256		13.729					ND	
268 Benzo[e]pyrene	252		13.840					ND	
177 Benzo[a]pyrene	252		13.840					ND	
178 3-Methylcholanthrene	252		14.220					ND	
176 Hexachlorophene	196		14.501					ND	
179 Dibenz[a,h]acridine	279		14.621					ND	
180 Indeno[1,2,3-cd]pyrene	276		14.636					ND	
181 Dibenz(a,h)anthracene	278		14.646					ND	
182 Benzo[g,h,i]perylene	276		14.839					ND	
183 Dibenzo[a,e]pyrene	302		19.913					ND	
217 1-Bromopropane	1		-0.700					ND	
215 1-Methylcyclopentanol	1		-0.700					ND	
275 1,2,3-Trimethylbenzene	105		-0.700					ND	
225 2,4-Toluene diamine	1		-0.700					ND	
278 Photomirex TIC	1		-0.700					ND	
223 2-Chlorobenzotrifluoride	1		-0.700					ND	
221 CBF-500	1		-0.700					ND	
195 Phenylacetic Acid	1		-0.700					ND	
287 2,6-Dichlorotoluene TIC	1		-0.700					ND	
219 alpha,alpha-Dimethyl phene	1		-0.700					ND	
208 n,n'-Dimethylacetamide	1		-0.700					ND	
216 4-Chlorobenzotrifluoride	1		-0.700					ND	
291 3-Chlorobenzotrifluoride T	1		-0.700					ND	
185 Phenylmercaptan	110		-0.700					ND	
200 Dibenzo[a,h]pyrene	1		-0.700					ND	
188 CAG-800	1		-0.700					ND	
272 Benzophenone	1		-0.700					ND	
194 CN-500	1		-0.700					ND	
224 CBF-400	1		-0.700					ND	
209 7H-Dibenzo[c,g]carbazole	1		-0.700					ND	
298 2-Aminopyridine TIC	1		-0.700					ND	
274 Phenyl ether	1		-0.700					ND	
193 Dibenz(a,i)pyrene	1		-0.700					ND	
186 Dibenz[a,j]acridine	279		-0.700					ND	
201 2,3-Dichlorophenol	1		-0.700					ND	
273 4-tert-Octylphenol	1		-0.700					ND	
202 4-Chlorotoluene	91		-0.700					ND	
289 2-Chlorobenzotrifluoride T	1		-0.700					ND	
277 1,4-Dioxane TIC	1		-0.700					ND	
196 CU-600	1		-0.700					ND	
210 3-Chlorotoluene	1		-0.700					ND	
207 3-Chlorobenzotrifluoride	1		-0.700					ND	
290 2,4-Dichlorotoluene TIC	1		-0.700					ND	
190 Benzeneacetonitrile	1		-0.700					ND	
192 NVF-400	1		-0.700					ND	
203 Pendimethalin	1		-0.700					ND	
276 4-Chloro-3-nitro-alpha,alp	1		-0.700					ND	
S 236 3 & 4 Methylphenol	108		-0.700					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
S 239 EPH Adjustment 1	1		-0.700					ND	
S 238 3-Methylphenol	1		-0.700					ND	
S 237 Total Cresols	1		-0.700					ND	
T 306 Fluorobenzene TIC	96		0.976					ND	
T 311 1-Bromo-2-chloroethane TIC	63		1.328					ND	
T 301 Ethylene Dibromide TIC	107		2.194					ND	
T 288 4-Chlorobenzotrifluoride T	180		2.942					ND	
T 308 1-Bromo-3-fluorobenzene TI	95		3.855					ND	
T 304 4-Bromofluorobenzene TIC	174		4.026					ND	
T 305 1,2-dichloro-4-(trifluorom	214		4.865					ND	
T 307 2-Bromopyridine TIC	78		5.169					ND	
T 245 2,4-Xylidine TIC	121		5.300					ND	
T 242 5-Methyl-o-Anisidine TIC	122		5.300					ND	
T 240 o-Anisidine TIC	108		5.300					ND	
T 243 Tris(2,3-dibromopropyl)pho	201		5.300					ND	
T 241 1,3-phenylenediamine TIC	108		5.300					ND	
T 244 4,4'-Methylene bis(2-chlor	231		5.300					ND	
T 309 1-Bromo-4-ethylbenzene TIC	169		6.291					ND	
T 302 3-Nitro-4-Chlorobenzotrifl	179		6.382					ND	
T 310 3-Amino-4-Chlorobenzotrifl	195		6.414					ND	
T 248 Tetramethyl lead TIC	253		7.300					ND	
T 250 Pendimethalin (TIC)	252		7.300					ND	
T 246 Benefin (TIC)	292		7.300					ND	
T 247 Benzeneacetic acid (TIC)	91		7.300					ND	
T 251 Prometryn (TIC)	241		7.300					ND	
T 303 3'-Bromoacetophenone TIC	183		7.643					ND	
T 252 1-Methylnaphthalene (TIC)	142		7.773					ND	
T 249 trans Azobenzene (TIC)	77		9.835					ND	
T 253 Hexamethyldisiloxane TIC	147		2.300					ND	
T 254 2,3,7,8-TCDD	322		7.300					ND	

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

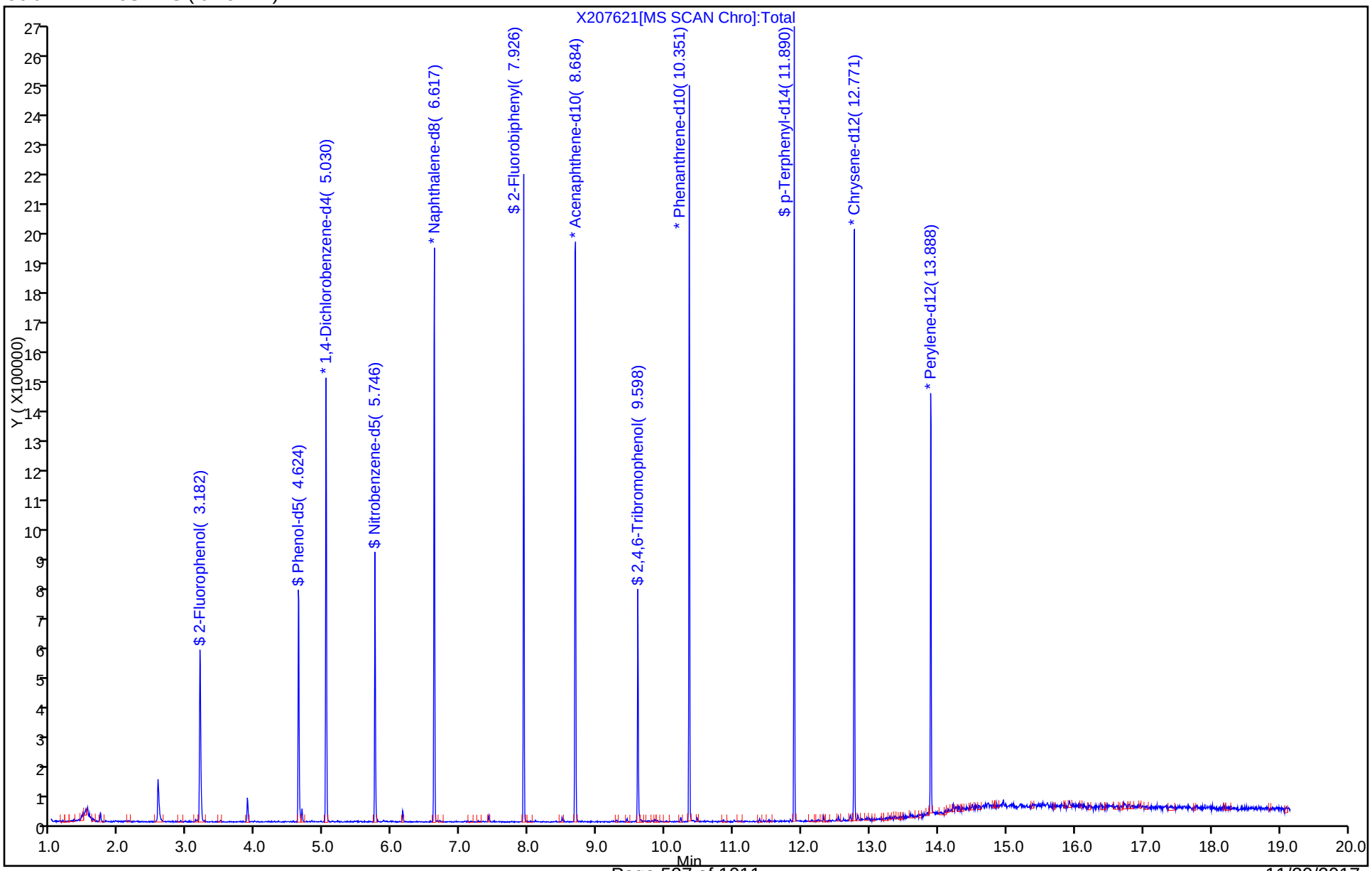
Report Date: 20-Nov-2017 11:33:25 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207621.D

Injection Date:	16-Nov-2017 15:33:30	Instrument ID:	HP5973X	Operator ID:	dr
Lims ID:	MB 480-387560/1-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-386401/2-A

Matrix: Solid | Lab File ID: U328785.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.92(g) | Date Analyzed: 11/10/2017 18:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1310		160	24
108-60-1	bis (2-chloroisopropyl) ether	1240		160	33
95-95-4	2,4,5-Trichlorophenol	1310		160	45
88-06-2	2,4,6-Trichlorophenol	1360		160	33
120-83-2	2,4-Dichlorophenol	1360		160	17
105-67-9	2,4-Dimethylphenol	1300		160	40
51-28-5	2,4-Dinitrophenol	2770		1600	760
121-14-2	2,4-Dinitrotoluene	1460		160	34
606-20-2	2,6-Dinitrotoluene	1410		160	19
91-58-7	2-Chloronaphthalene	1300		160	27
95-57-8	2-Chlorophenol	1180		160	30
91-57-6	2-Methylnaphthalene	1330		160	33
95-48-7	2-Methylphenol	1230		160	19
88-74-4	2-Nitroaniline	1380		320	24
88-75-5	2-Nitrophenol	1260		160	47
91-94-1	3,3'-Dichlorobenzidine	2370		320	190
99-09-2	3-Nitroaniline	1230		320	46
534-52-1	4,6-Dinitro-2-methylphenol	2950		320	160
101-55-3	4-Bromophenyl phenyl ether	1440		160	23
59-50-7	4-Chloro-3-methylphenol	1360		160	41
106-47-8	4-Chloroaniline	1180		160	41
7005-72-3	4-Chlorophenyl phenyl ether	1380		160	20
106-44-5	4-Methylphenol	1270		320	19
100-01-6	4-Nitroaniline	1380		320	86
100-02-7	4-Nitrophenol	2660		320	120
83-32-9	Acenaphthene	1330		160	24
208-96-8	Acenaphthylene	1310		160	21
98-86-2	Acetophenone	1270		160	22
120-12-7	Anthracene	1440		160	41
1912-24-9	Atrazine	3030		160	57
100-52-7	Benzaldehyde	1220		160	130
56-55-3	Benzo(a)anthracene	1490		160	16
50-32-8	Benzo(a)pyrene	1520		160	24
205-99-2	Benzo(b)fluoranthene	1560		160	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-386401/2-A

Matrix: Solid | Lab File ID: U328785.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.92(g) | Date Analyzed: 11/10/2017 18:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1740		160	17
207-08-9	Benzo(k)fluoranthene	1560		160	21
111-91-1	Bis(2-chloroethoxy)methane	1280		160	35
111-44-4	Bis(2-chloroethyl)ether	1190		160	21
117-81-7	Bis(2-ethylhexyl) phthalate	1650		160	56
85-68-7	Butyl benzyl phthalate	1660		160	27
105-60-2	Caprolactam	2890		160	49
86-74-8	Carbazole	1430		160	19
218-01-9	Chrysene	1500		160	37
84-74-2	Di-n-butyl phthalate	1480		160	28
117-84-0	Di-n-octyl phthalate	1540		160	19
53-70-3	Dibenz(a,h)anthracene	1630		160	29
132-64-9	Dibenzofuran	1350		160	19
84-66-2	Diethyl phthalate	1430		160	21
131-11-3	Dimethyl phthalate	1400		160	19
206-44-0	Fluoranthene	1390		160	17
86-73-7	Fluorene	1390		160	19
118-74-1	Hexachlorobenzene	1410		160	22
87-68-3	Hexachlorobutadiene	1220		160	24
77-47-4	Hexachlorocyclopentadiene	1220		160	22
67-72-1	Hexachloroethane	1130		160	21
193-39-5	Indeno(1,2,3-cd)pyrene	1640		160	20
78-59-1	Isophorone	1300		160	35
621-64-7	N-Nitrosodi-n-propylamine	1290		160	28
86-30-6	N-Nitrosodiphenylamine	1440		160	130
91-20-3	Naphthalene	1220		160	21
98-95-3	Nitrobenzene	1250		160	18
87-86-5	Pentachlorophenol	2410		320	160
85-01-8	Phenanthrene	1460		160	24
108-95-2	Phenol	1190		160	25
129-00-0	Pyrene	1680		160	19

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-386401/2-A

Matrix: Solid | Lab File ID: U328785.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/09/2017 07:09

Sample wt/vol: 30.92(g) | Date Analyzed: 11/10/2017 18:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386804 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	82		54-120
321-60-8	2-Fluorobiphenyl	79		60-120
367-12-4	2-Fluorophenol	66		52-120
4165-60-0	Nitrobenzene-d5	78		53-120
1718-51-0	p-Terphenyl-d14	104		65-121
4165-62-2	Phenol-d5	73		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328785.D
Lims ID: LCS 480-386401/2-A
Client ID:
Sample Type: LCS
Inject. Date: 10-Nov-2017 18:20:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0067178-007
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 13-Nov-2017 14:22:24 Calib Date: 29-Oct-2017 23:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20171029-66819.b\U328566.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: richardsd Date: 13-Nov-2017 11:15:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	7.227	7.227	0.000	96	82722	40.0	40.0	
* 2 Naphthalene-d8	136	8.739	8.739	-0.001	99	304883	40.0	40.0	
* 3 Acenaphthene-d10	164	10.769	10.769	0.000	95	160536	40.0	40.0	
* 4 Phenanthrene-d10	188	12.259	12.259	0.000	98	316675	40.0	40.0	
* 5 Chrysene-d12	240	14.711	14.712	-0.001	96	397597	40.0	40.0	
* 6 Perylene-d12	264	16.490	16.490	0.000	99	371112	40.0	40.0	
$ 7 2-Fluorophenol	112	5.656	5.656	0.000	95	73579	40.0	26.6	
$ 8 Phenol-d5	99	6.730	6.730	0.000	96	99912	40.0	29.4	
$ 9 Nitrobenzene-d5	82	7.862	7.863	-0.001	94	103786	40.0	31.3	
$ 10 2-Fluorobiphenyl	172	9.983	9.984	-0.001	100	198861	40.0	31.8	
$ 11 2,4,6-Tribromophenol	330	11.581	11.581	0.000	96	33261	40.0	32.9	
$ 12 p-Terphenyl-d14	244	13.669	13.670	-0.001	99	299023	40.0	41.8	
23 1,4-Dioxane	88	3.418	3.418	0.000	92	30077	50.0	22.2	
24 N-Nitrosodimethylamine	42	3.834	3.840	-0.006	81	80516	50.0	38.8	
25 Pyridine	52	3.941	3.942	-0.001	81	172376	100.0	51.6	
32 Benzaldehyde	77	6.703	6.703	0.000	89	88882	100.0	37.6	
33 Phenol	94	6.751	6.746	0.005	97	130900	50.0	36.8	
34 Aniline	93	6.821	6.821	0.000	95	129691	50.0	29.4	
35 Bis(2-chloroethyl)ether	93	6.869	6.869	0.000	92	108037	50.0	36.9	
37 2-Chlorophenol	128	6.981	6.981	0.000	95	97846	50.0	36.5	
38 n-Decane	57	7.002	7.003	-0.001	93	131125	50.0	29.1	
39 1,3-Dichlorobenzene	146	7.168	7.168	0.000	97	111842	50.0	33.9	
40 1,4-Dichlorobenzene	146	7.248	7.248	0.000	92	112552	50.0	33.9	
41 Benzyl alcohol	108	7.350	7.350	0.000	89	67996	50.0	37.4	
42 1,2-Dichlorobenzene	146	7.435	7.435	0.000	96	109040	50.0	34.9	
43 2-Methylphenol	108	7.467	7.467	0.000	98	93933	50.0	38.0	
44 2,2'-oxybis[1-chloropropan	45	7.504	7.505	-0.001	92	206231	50.0	38.3	
45 Indene	115	7.536	7.537	-0.001	91	680223	200.0	143.2	
46 4-Methylphenol	108	7.638	7.638	0.000	94	101139	50.0	39.3	
47 N-Nitrosodi-n-propylamine	70	7.654	7.654	0.000	95	84852	50.0	40.0	
49 Acetophenone	105	7.675	7.676	-0.001	92	142381	50.0	39.3	
53 Hexachloroethane	117	7.846	7.847	-0.001	90	41736	50.0	34.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
54 Nitrobenzene	77	7.884	7.884	0.000	94	117935	50.0	38.6	
56 Isophorone	82	8.156	8.157	-0.001	98	214639	50.0	40.3	
59 2-Nitrophenol	139	8.268	8.269	-0.001	94	51650	50.0	38.8	
60 2,4-Dimethylphenol	107	8.274	8.274	0.000	95	109926	50.0	40.2	
64 Benzoic acid	105	8.375	8.370	0.005	94	219053	200.0	131.9	
62 Bis(2-chloroethoxy)methane	93	8.381	8.381	0.000	95	131301	50.0	39.6	
67 2,4-Dichlorophenol	162	8.546	8.547	-0.001	94	98195	50.0	42.1	
68 1,2,4-Trichlorobenzene	180	8.658	8.659	-0.001	93	107196	50.0	38.7	
70 Naphthalene	128	8.760	8.760	0.000	98	287635	50.0	37.8	
72 4-Chloroaniline	127	8.792	8.792	0.000	95	117016	50.0	36.5	
73 2,6-Dichlorophenol	162	8.813	8.814	-0.001	96	93155	50.0	40.2	
74 Hexachlorobutadiene	225	8.904	8.904	0.000	94	66964	50.0	37.8	
76 Caprolactam	113	9.182	9.172	0.010	73	71735	100.0	89.4	
80 4-Chloro-3-methylphenol	107	9.342	9.337	0.005	97	92385	50.0	42.1	
83 2-Methylnaphthalene	142	9.577	9.578	-0.001	92	214093	50.0	41.2	
85 1-Methylnaphthalene	142	9.700	9.700	0.000	93	203194	50.0	40.8	
86 Hexachlorocyclopentadiene	237	9.775	9.775	0.000	95	78405	50.0	37.8	
87 1,2,4,5-Tetrachlorobenzene	216	9.780	9.781	-0.001	97	117373	50.0	40.1	
89 2,4,6-Trichlorophenol	196	9.898	9.893	0.005	93	75390	50.0	42.2	
91 2,4,5-Trichlorophenol	196	9.941	9.941	-0.001	95	79022	50.0	40.6	
94 1,1'-Biphenyl	154	10.106	10.106	0.000	96	271500	50.0	40.5	
95 2-Chloronaphthalene	162	10.149	10.149	0.000	96	217514	50.0	40.1	
98 2-Nitroaniline	65	10.234	10.235	-0.001	80	73135	50.0	42.8	
102 Dimethyl phthalate	163	10.411	10.411	0.000	98	261993	50.0	43.4	
103 1,3-Dinitrobenzene	168	10.453	10.454	-0.001	84	42958	50.0	46.9	
104 2,6-Dinitrotoluene	165	10.485	10.486	-0.001	92	61252	50.0	43.7	
105 Acenaphthylene	152	10.614	10.614	0.000	98	308372	50.0	40.6	
106 3-Nitroaniline	138	10.683	10.678	0.005	91	53889	50.0	38.1	
107 2,4-Dinitrophenol	184	10.790	10.790	0.000	82	60465	100.0	85.7	
108 Acenaphthene	153	10.801	10.801	0.000	95	214727	50.0	41.3	
109 4-Nitrophenol	109	10.833	10.833	0.000	96	68933	100.0	82.3	
111 2,4-Dinitrotoluene	165	10.923	10.924	-0.001	93	83077	50.0	45.1	
112 Dibenzofuran	168	10.982	10.983	-0.001	97	312128	50.0	41.8	
116 2,3,4,6-Tetrachlorophenol	232	11.100	11.100	0.000	71	71603	50.0	41.1	
118 Diethyl phthalate	149	11.153	11.154	-0.001	98	260161	50.0	44.3	
119 Hexadecane	57	11.164	11.164	0.000	91	207633	50.0	42.3	
121 4-Chlorophenyl phenyl ethe	204	11.308	11.308	0.000	91	141039	50.0	42.7	
122 4-Nitroaniline	138	11.324	11.325	-0.001	83	66228	50.0	42.6	
123 Fluorene	166	11.335	11.335	0.000	94	262550	50.0	42.9	
125 4,6-Dinitro-2-methylphenol	198	11.356	11.357	-0.001	86	87978	100.0	91.1	
127 N-Nitrosodiphenylamine	169	11.420	11.421	-0.001	64	195200	50.0	44.5	
128 Diphenylamine	169	11.420	11.421	-0.001	94	195200	42.8	38.1	
130 Azobenzene	77	11.468	11.469	-0.001	97	271568	50.0	44.4	
129 1,2-Diphenylhydrazine	77	11.468	11.469	-0.001	96	271568	50.0	44.4	
137 4-Bromophenyl phenyl ether	248	11.800	11.800	0.000	66	91584	50.0	44.5	
139 Hexachlorobenzene	284	11.901	11.901	0.000	95	93471	50.0	43.6	
141 Atrazine	200	11.912	11.912	0.000	92	161973	100.0	93.7	
144 n-Octadecane	57	12.061	12.062	-0.001	92	214235	50.0	45.0	
143 Pentachlorophenol	266	12.072	12.072	0.000	94	96897	100.0	74.6	
150 Phenanthrene	178	12.286	12.286	0.000	97	411564	50.0	45.1	
151 Anthracene	178	12.334	12.329	0.005	96	419990	50.0	44.5	
152 Carbazole	167	12.462	12.457	0.005	97	368858	50.0	44.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
155 Di-n-butyl phthalate	149	12.708	12.708	0.000	99	432630	50.0	45.8	
162 Fluoranthene	202	13.376	13.376	0.000	98	451225	50.0	43.1	
164 Benzidine	184	13.445	13.445	0.000	99	223502	100.0	43.1	
165 Pyrene	202	13.589	13.590	-0.001	97	462775	50.0	52.0	
172 Butyl benzyl phthalate	149	14.059	14.060	-0.001	98	203137	50.0	51.4	
178 Bis(2-ethylhexyl) phthalat	149	14.551	14.551	0.000	96	276120	50.0	51.1	
179 3,3'-Dichlorobenzidine	252	14.620	14.615	0.005	73	335137	100.0	73.3	
181 Benzo[a]anthracene	228	14.695	14.695	0.000	97	524823	50.0	46.0	
182 Chrysene	228	14.738	14.738	0.000	96	511934	50.0	46.5	
183 Di-n-octyl phthalate	149	15.213	15.208	0.005	99	470354	50.0	47.5	
185 Benzo[b]fluoranthene	252	15.945	15.940	0.005	96	526293	50.0	48.4	
187 Benzo[k]fluoranthene	252	15.977	15.978	-0.001	97	537027	50.0	48.1	
190 Benzo[a]pyrene	252	16.410	16.410	0.000	76	497528	50.0	47.0	
193 Dibenz(a,h)anthracene	278	18.312	18.312	0.000	89	504381	50.0	50.3	
194 Indeno[1,2,3-cd]pyrene	276	18.322	18.323	-0.001	99	597961	50.0	50.6	
195 Benzo[g,h,i]perylene	276	18.894	18.894	0.000	98	501771	50.0	53.8	
S 256 3-Methylphenol	1				0		50.0	39.3	

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

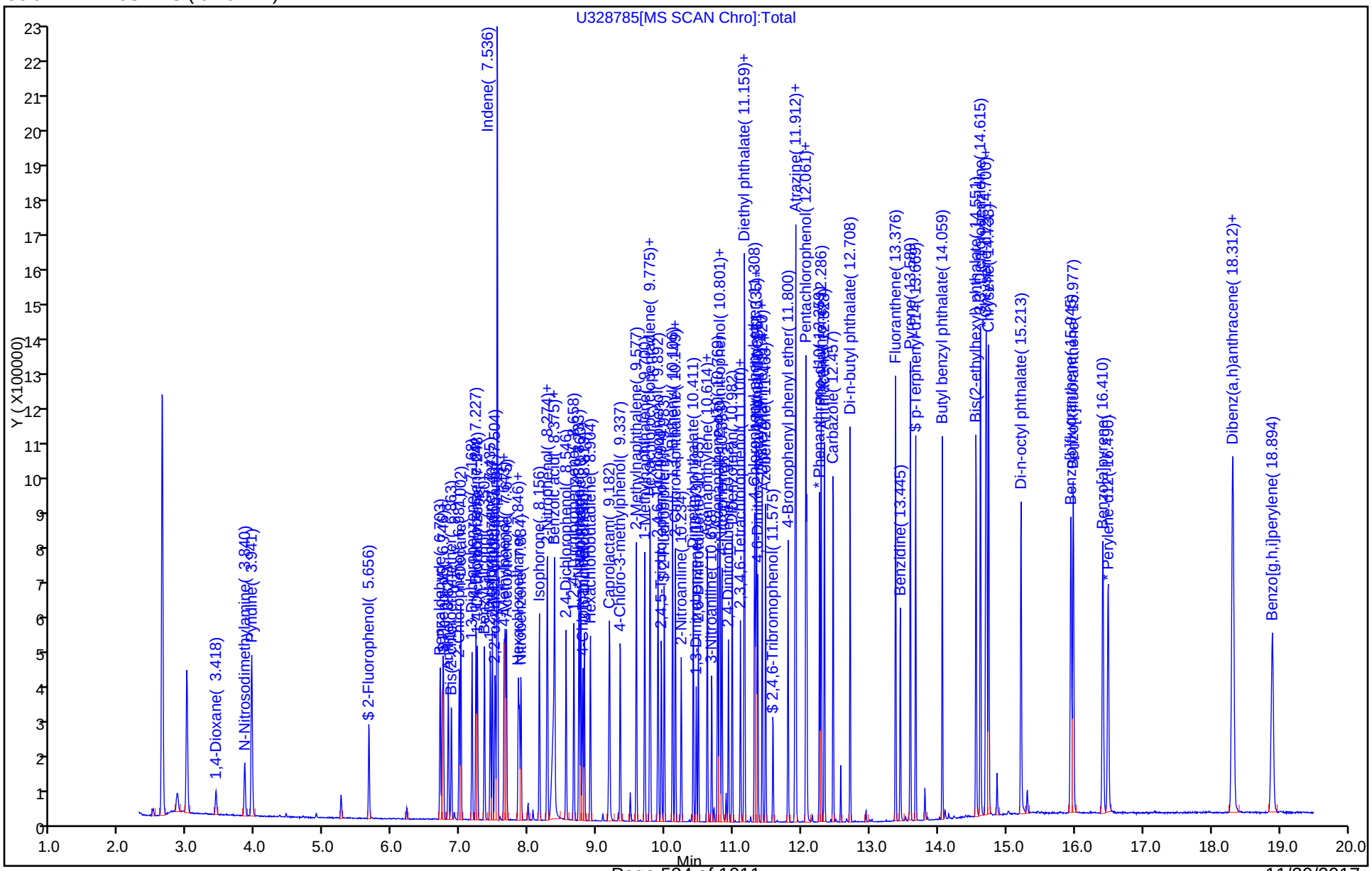
Report Date: 13-Nov-2017 14:27:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20171110-67178.b\U328785.D

Injection Date:	10-Nov-2017 18:20:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	LCS 480-386401/2-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-387560/2-A

Matrix: Solid | Lab File ID: X207622.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.64(g) | Date Analyzed: 11/16/2017 16:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1460		170	24
108-60-1	bis (2-chloroisopropyl) ether	893		170	33
95-95-4	2,4,5-Trichlorophenol	1360		170	45
88-06-2	2,4,6-Trichlorophenol	1430		170	33
120-83-2	2,4-Dichlorophenol	1360		170	18
105-67-9	2,4-Dimethylphenol	1520		170	40
51-28-5	2,4-Dinitrophenol	2630		1600	770
121-14-2	2,4-Dinitrotoluene	1710		170	34
606-20-2	2,6-Dinitrotoluene	1560		170	20
91-58-7	2-Chloronaphthalene	1430		170	27
95-57-8	2-Chlorophenol	1320		170	30
91-57-6	2-Methylnaphthalene	1290		170	33
95-48-7	2-Methylphenol	1440		170	20
88-74-4	2-Nitroaniline	1560		320	24
88-75-5	2-Nitrophenol	1340		170	47
91-94-1	3,3'-Dichlorobenzidine	2690		320	200
99-09-2	3-Nitroaniline	1240		320	46
534-52-1	4,6-Dinitro-2-methylphenol	3020		320	170
101-55-3	4-Bromophenyl phenyl ether	1550		170	23
59-50-7	4-Chloro-3-methylphenol	1510		170	41
106-47-8	4-Chloroaniline	1100		170	41
7005-72-3	4-Chlorophenyl phenyl ether	1420		170	21
106-44-5	4-Methylphenol	1400		320	20
100-01-6	4-Nitroaniline	1320		320	87
100-02-7	4-Nitrophenol	4370		320	120
83-32-9	Acenaphthene	1470		170	24
208-96-8	Acenaphthylene	1430		170	22
98-86-2	Acetophenone	1530		170	23
120-12-7	Anthracene	1530		170	41
1912-24-9	Atrazine	3530		170	58
100-52-7	Benzaldehyde	2140		170	130
56-55-3	Benzo(a)anthracene	1680		170	17
50-32-8	Benzo(a)pyrene	1620		170	24
205-99-2	Benzo(b)fluoranthene	1790		170	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-387560/2-A

Matrix: Solid | Lab File ID: X207622.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.64(g) | Date Analyzed: 11/16/2017 16:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1350		170	18
207-08-9	Benzo(k)fluoranthene	1550		170	22
111-91-1	Bis(2-chloroethoxy)methane	1270		170	35
111-44-4	Bis(2-chloroethyl)ether	1220		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	2280		170	57
85-68-7	Butyl benzyl phthalate	2210		170	27
105-60-2	Caprolactam	2690		170	50
86-74-8	Carbazole	1450		170	20
218-01-9	Chrysene	1540		170	37
84-74-2	Di-n-butyl phthalate	1900		170	28
117-84-0	Di-n-octyl phthalate	2010		170	20
53-70-3	Dibenz(a,h)anthracene	1350		170	29
132-64-9	Dibenzofuran	1520		170	20
84-66-2	Diethyl phthalate	1790		170	22
131-11-3	Dimethyl phthalate	1680		170	20
206-44-0	Fluoranthene	1360		170	18
86-73-7	Fluorene	1460		170	20
118-74-1	Hexachlorobenzene	1550		170	23
87-68-3	Hexachlorobutadiene	1510		170	24
77-47-4	Hexachlorocyclopentadiene	1360		170	23
67-72-1	Hexachloroethane	1490		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	1350		170	21
78-59-1	Isophorone	1430		170	35
621-64-7	N-Nitrosodi-n-propylamine	1360		170	28
86-30-6	N-Nitrosodiphenylamine	1500		170	140
91-20-3	Naphthalene	1290		170	22
98-95-3	Nitrobenzene	1400		170	19
87-86-5	Pentachlorophenol	2890		320	170
85-01-8	Phenanthrene	1550		170	24
108-95-2	Phenol	1140		170	25
129-00-0	Pyrene	1850		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-387560/2-A

Matrix: Solid | Lab File ID: X207622.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.64(g) | Date Analyzed: 11/16/2017 16:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	94		54-120
321-60-8	2-Fluorobiphenyl	89		60-120
367-12-4	2-Fluorophenol	79		52-120
4165-60-0	Nitrobenzene-d5	89		53-120
1718-51-0	p-Terphenyl-d14	116		65-121
4165-62-2	Phenol-d5	79		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207622.D
Lims ID: LCS 480-387560/2-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Nov-2017 16:00:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0067330-011
Operator ID: dr Instrument ID: HP5973X

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Nov-2017 11:33:08 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: richardsd Date: 16-Nov-2017 18:46:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.036	5.030	0.006	96	270969	40.0	40.0	
* 2 Naphthalene-d8	136	6.617	6.606	0.011	99	914400	40.0	40.0	
* 3 Acenaphthene-d10	164	8.679	8.674	0.005	95	454738	40.0	40.0	
* 4 Phenanthrene-d10	188	10.351	10.346	0.005	99	881415	40.0	40.0	
* 5 Chrysene-d12	240	12.771	12.766	0.005	99	681891	40.0	40.0	
* 6 Perylene-d12	264	13.888	13.888	0.000	99	485999	40.0	40.0	
$ 7 2-Fluorophenol	112	3.187	3.161	0.026	94	274953	40.0	31.4	
$ 8 Phenol-d5	99	4.635	4.608	0.027	92	335814	40.0	31.7	
$ 9 Nitrobenzene-d5	82	5.752	5.730	0.022	92	332412	40.0	35.7	
$ 10 2-Fluorobiphenyl	172	7.921	7.905	0.017	100	667486	40.0	35.5	
$ 11 2,4,6-Tribromophenol	330	9.598	9.593	0.005	93	94943	40.0	37.6	
$ 12 p-Terphenyl-d14	244	11.885	11.879	0.006	99	619789	40.0	46.5	
15 1,4-Dioxane	88	1.141	1.125	0.016	92	40150	50.0	9.89	
16 N-Nitrosodimethylamine	42	1.360	1.344	0.016	90	112777	50.0	29.7	
17 Pyridine	52	1.398	1.376	0.022	87	185519	100.0	31.6	
27 Benzaldehyde	77	4.443	4.421	0.022	89	412030	100.0	65.5	
29 Aniline	93	4.608	4.587	0.021	95	432286	50.0	31.6	
28 Phenol	94	4.656	4.624	0.032	83	411290	50.0	34.9	
31 Bis(2-chloroethyl)ether	93	4.726	4.699	0.027	91	322202	50.0	37.5	
32 2-Chlorophenol	128	4.769	4.742	0.027	98	346734	50.0	40.6	
35 n-Decane	57	4.886	4.865	0.021	90	224538	50.0	25.1	
36 1,3-Dichlorobenzene	146	4.956	4.934	0.022	98	376683	50.0	37.3	
37 1,4-Dichlorobenzene	146	5.057	5.036	0.021	97	388200	50.0	37.1	
39 1,2-Dichlorobenzene	146	5.249	5.228	0.021	98	375638	50.0	41.3	
38 Benzyl alcohol	108	5.255	5.233	0.022	95	244307	50.0	44.6	
229 Indene	115	5.372	5.346	0.026	85	2523263	200.0	183.6	
42 2,2'-oxybis[1-chloropropan	45	5.431	5.410	0.021	89	244562	50.0	27.4	
40 2-Methylphenol	108	5.436	5.410	0.026	95	330421	50.0	44.1	
45 Acetophenone	105	5.575	5.549	0.026	91	528927	50.0	47.0	
47 N-Nitrosodi-n-propylamine	70	5.602	5.575	0.027	84	243035	50.0	41.7	
46 4-Methylphenol	108	5.645	5.618	0.027	94	339359	50.0	42.8	
50 Hexachloroethane	117	5.672	5.645	0.027	96	173862	50.0	45.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
52 Nitrobenzene	77	5.773	5.752	0.021	93	392203	50.0	42.8	
56 Isophorone	82	6.083	6.056	0.027	97	685497	50.0	43.8	
58 2-Nitrophenol	139	6.168	6.147	0.021	92	193014	50.0	41.0	
59 2,4-Dimethylphenol	107	6.286	6.259	0.027	97	425701	50.0	46.7	
62 Bis(2-chloroethoxy)methane	93	6.382	6.361	0.021	95	394591	50.0	39.0	
65 2,4-Dichlorophenol	162	6.478	6.457	0.021	98	313880	50.0	41.6	
64 Benzoic acid	105	6.558	6.505	0.053	84	749602	200.0	149.9	
67 1,2,4-Trichlorobenzene	180	6.564	6.542	0.022	99	361677	50.0	41.6	
69 Naphthalene	128	6.638	6.617	0.021	100	951388	50.0	39.5	
71 4-Chloroaniline	127	6.740	6.719	0.021	97	321995	50.0	33.6	
70 2,6-Dichlorophenol	162	6.745	6.724	0.021	93	312582	50.0	43.2	
73 Hexachlorobutadiene	225	6.820	6.804	0.016	98	275394	50.0	46.3	
78 Caprolactam	113	7.215	7.141	0.074	86	203210	100.0	82.3	
79 4-Chloro-3-methylphenol	107	7.376	7.349	0.027	96	340594	50.0	46.4	
82 2-Methylnaphthalene	142	7.472	7.450	0.022	99	658018	50.0	39.4	
83 1-Methylnaphthalene	142	7.584	7.563	0.021	95	625348	50.0	41.0	
84 Hexachlorocyclopentadiene	237	7.675	7.653	0.022	96	299292	50.0	41.8	
85 1,2,4,5-Tetrachlorobenzene	216	7.675	7.659	0.016	98	390296	50.0	43.0	
86 2,4,6-Trichlorophenol	196	7.830	7.814	0.016	97	248111	50.0	43.9	
87 2,4,5-Trichlorophenol	196	7.878	7.856	0.022	98	248071	50.0	41.7	
90 1,1'-Biphenyl	154	8.027	8.017	0.010	99	849351	50.0	44.7	
91 2-Chloronaphthalene	162	8.033	8.017	0.016	98	656860	50.0	43.7	
93 2-Nitroaniline	65	8.177	8.166	0.011	96	197823	50.0	47.7	
96 Dimethyl phthalate	163	8.423	8.412	0.011	99	850476	50.0	51.6	
97 1,3-Dinitrobenzene	168	8.433	8.423	0.010	94	141103	50.0	46.0	
99 2,6-Dinitrotoluene	165	8.476	8.460	0.016	85	190944	50.0	47.8	
100 Acenaphthylene	152	8.508	8.497	0.011	100	936718	50.0	43.9	
101 3-Nitroaniline	138	8.663	8.652	0.011	94	151862	50.0	38.1	
102 Acenaphthene	153	8.717	8.706	0.011	99	639357	50.0	45.0	
103 2,4-Dinitrophenol	184	8.786	8.775	0.011	95	216455	100.0	80.7	
107 Dibenzofuran	168	8.920	8.909	0.011	100	962781	50.0	46.5	
104 4-Nitrophenol	109	8.925	8.909	0.016	95	333082	100.0	133.8	
106 2,4-Dinitrotoluene	165	8.941	8.930	0.011	93	266215	50.0	52.4	
110 2,3,4,6-Tetrachlorophenol	232	9.085	9.074	0.011	98	220267	50.0	45.5	
112 Diethyl phthalate	149	9.251	9.245	0.006	99	889167	50.0	55.0	
138 Hexadecane	57	9.299	9.288	0.011	91	353034	50.0	39.7	
115 Fluorene	166	9.315	9.304	0.011	100	749222	50.0	44.7	
116 4-Chlorophenyl phenyl ethe	204	9.342	9.336	0.006	98	412339	50.0	43.6	
118 4-Nitroaniline	138	9.374	9.363	0.011	98	163043	50.0	40.6	
119 4,6-Dinitro-2-methylphenol	198	9.416	9.406	0.010	94	285704	100.0	92.4	
120 N-Nitrosodiphenylamine	169	9.486	9.480	0.006	97	536937	50.0	46.0	
121 Diphenylamine	169	9.486	9.480	0.006	98	536937	42.8	39.4	
122 Azobenzene	77	9.523	9.513	0.010	95	818693	50.0	54.3	
123 1,2-Diphenylhydrazine	77	9.523	9.513	0.010	98	818693	50.0	54.3	
130 4-Bromophenyl phenyl ether	248	9.897	9.892	0.005	97	257297	50.0	47.5	
131 Hexachlorobenzene	284	9.951	9.945	0.006	97	259484	50.0	47.6	
133 Atrazine	200	10.127	10.116	0.011	93	502781	100.0	108.0	
134 Pentachlorophenol	266	10.180	10.170	0.010	97	275977	100.0	88.6	
113 n-Octadecane	57	10.335	10.330	0.005	94	369823	50.0	44.7	
141 Phenanthrene	178	10.378	10.367	0.011	100	1071130	50.0	47.4	
142 Anthracene	178	10.426	10.421	0.005	100	1115822	50.0	47.0	
143 Carbazole	167	10.613	10.602	0.011	100	951351	50.0	44.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
145 Di-n-butyl phthalate	149	11.003	10.992	0.011	99	1445715	50.0	58.3	
152 Fluoranthene	202	11.521	11.516	0.005	99	1094949	50.0	41.5	
154 Benzidine	184	11.666	11.660	0.006	100	525959	100.0	67.5	
155 Pyrene	202	11.719	11.714	0.005	99	1089781	50.0	56.7	
162 Butyl benzyl phthalate	149	12.328	12.323	0.005	98	523864	50.0	67.6	
166 3,3'-Dichlorobenzidine	252	12.755	12.745	0.010	86	567788	100.0	82.4	
167 Benzo[a]anthracene	228	12.761	12.750	0.011	96	934131	50.0	51.3	
169 Chrysene	228	12.793	12.782	0.011	98	844409	50.0	47.3	
172 Bis(2-ethylhexyl) phthalat	149	12.819	12.814	0.005	97	747390	50.0	69.7	
168 Di-n-octyl phthalate	149	13.332	13.322	0.010	99	1117363	50.0	61.4	
174 Benzo[b]fluoranthene	252	13.610	13.599	0.011	99	765953	50.0	54.8	
175 Benzo[k]fluoranthene	252	13.631	13.621	0.010	97	752368	50.0	47.6	
177 Benzo[a]pyrene	252	13.850	13.840	0.010	99	678644	50.0	49.5	
180 Indeno[1,2,3-cd]pyrene	276	14.646	14.636	0.010	96	687788	50.0	41.2	
181 Dibenz(a,h)anthracene	278	14.657	14.646	0.011	98	583359	50.0	41.4	
182 Benzo[g,h,i]perylene	276	14.849	14.839	0.010	100	591096	50.0	41.3	
S 238 3-Methylphenol	1				0		50.0	42.8	

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

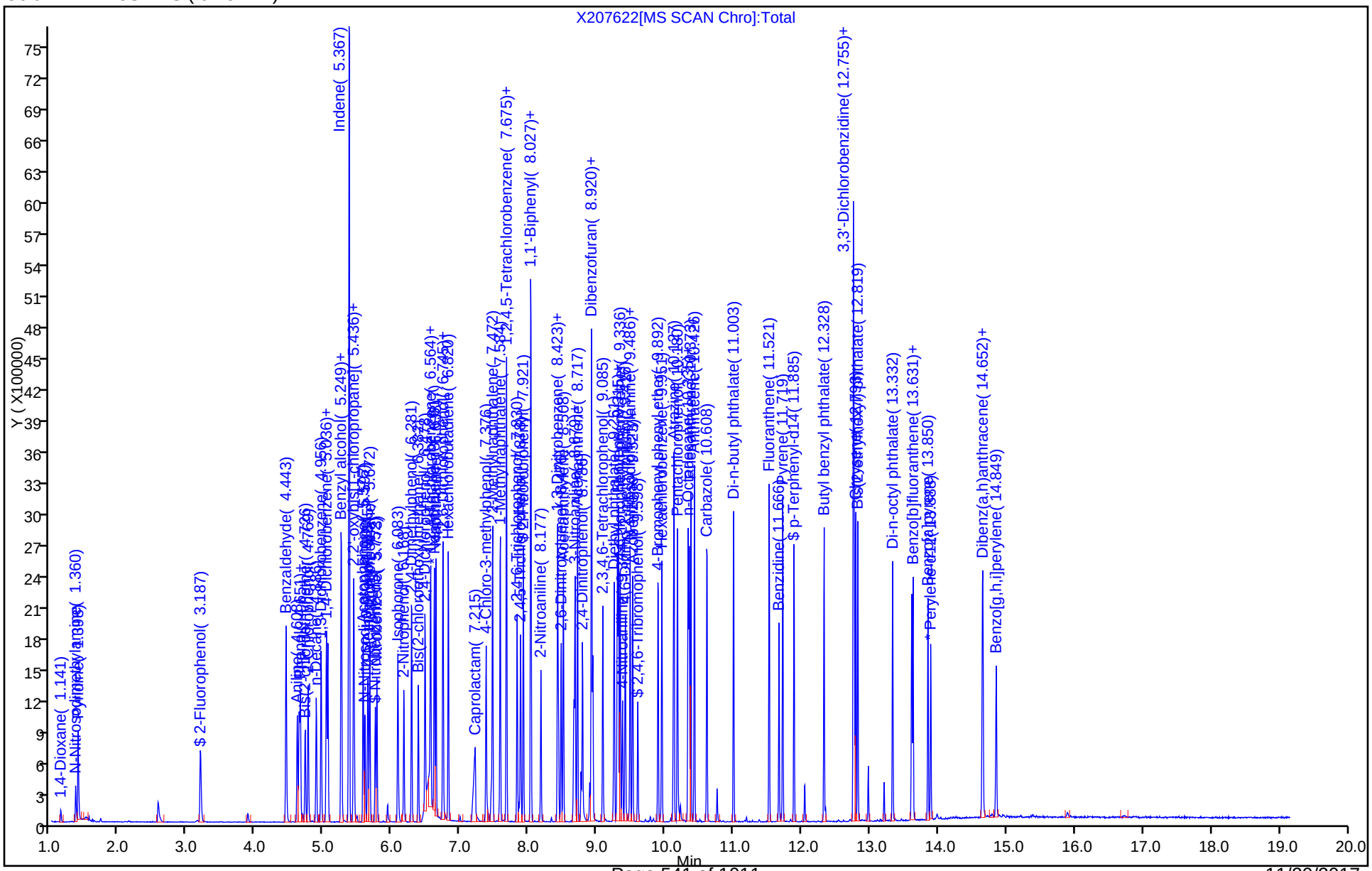
Report Date: 20-Nov-2017 11:33:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207622.D

Injection Date:	16-Nov-2017 16:00:30	Instrument ID:	HP5973X	Operator ID:	dr
Lims ID:	LCS 480-387560/2-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MS | Lab Sample ID: 480-127239-3 MS

Matrix: Solid | Lab File ID: X207623.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.16(g) | Date Analyzed: 11/16/2017 16:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	2060	J	2300	340
108-60-1	bis (2-chloroisopropyl) ether	ND		2300	460
95-95-4	2,4,5-Trichlorophenol	2320		2300	620
88-06-2	2,4,6-Trichlorophenol	2450		2300	460
120-83-2	2,4-Dichlorophenol	1860	J	2300	240
105-67-9	2,4-Dimethylphenol	2140	J	2300	550
51-28-5	2,4-Dinitrophenol	ND		22000	11000
121-14-2	2,4-Dinitrotoluene	2350		2300	470
606-20-2	2,6-Dinitrotoluene	2300		2300	270
91-58-7	2-Chloronaphthalene	2150	J	2300	380
95-57-8	2-Chlorophenol	1910	J	2300	420
91-57-6	2-Methylnaphthalene	1890	J	2300	460
95-48-7	2-Methylphenol	1380	J	2300	270
88-74-4	2-Nitroaniline	2300	J	4400	340
88-75-5	2-Nitrophenol	2100	J	2300	650
91-94-1	3,3'-Dichlorobenzidine	3790	J	4400	2700
99-09-2	3-Nitroaniline	2060	J	4400	630
534-52-1	4,6-Dinitro-2-methylphenol	4230	J	4400	2300
101-55-3	4-Bromophenyl phenyl ether	1940	J	2300	320
59-50-7	4-Chloro-3-methylphenol	2360		2300	570
106-47-8	4-Chloroaniline	1100	J	2300	570
7005-72-3	4-Chlorophenyl phenyl ether	2190	J	2300	280
106-44-5	4-Methylphenol	1860	J	4400	270
100-01-6	4-Nitroaniline	1940	J	4400	1200
100-02-7	4-Nitrophenol	7060		4400	1600
83-32-9	Acenaphthene	2310		2300	340
208-96-8	Acenaphthylene	2330		2300	300
98-86-2	Acetophenone	2100	J	2300	310
120-12-7	Anthracene	2560		2300	570
1912-24-9	Atrazine	4740		2300	790
100-52-7	Benzaldehyde	3200		2300	1800
56-55-3	Benzo(a)anthracene	5070		2300	230
50-32-8	Benzo(a)pyrene	4450		2300	340
205-99-2	Benzo(b)fluoranthene	5620		2300	360

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MS | Lab Sample ID: 480-127239-3 MS

Matrix: Solid | Lab File ID: X207623.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.16(g) | Date Analyzed: 11/16/2017 16:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	3220		2300	240
207-08-9	Benzo(k)fluoranthene	3900		2300	300
111-91-1	Bis(2-chloroethoxy)methane	1810	J	2300	480
111-44-4	Bis(2-chloroethyl)ether	1640	J	2300	300
117-81-7	Bis(2-ethylhexyl) phthalate	3060		2300	780
85-68-7	Butyl benzyl phthalate	2770		2300	380
105-60-2	Caprolactam	3470		2300	690
86-74-8	Carbazole	2530		2300	270
218-01-9	Chrysene	4830		2300	510
84-74-2	Di-n-butyl phthalate	2790		2300	390
117-84-0	Di-n-octyl phthalate	2460		2300	270
53-70-3	Dibenz(a,h)anthracene	2480		2300	400
132-64-9	Dibenzofuran	2400		2300	270
84-66-2	Diethyl phthalate	2600		2300	300
131-11-3	Dimethyl phthalate	2270	J	2300	270
206-44-0	Fluoranthene	7650		2300	240
86-73-7	Fluorene	2420		2300	270
118-74-1	Hexachlorobenzene	1950	J	2300	310
87-68-3	Hexachlorobutadiene	1970	J	2300	340
77-47-4	Hexachlorocyclopentadiene	1790	J	2300	310
67-72-1	Hexachloroethane	2130	J	2300	300
193-39-5	Indeno(1,2,3-cd)pyrene	3140		2300	280
78-59-1	Isophorone	2130	J	2300	480
621-64-7	N-Nitrosodi-n-propylamine	2140	J	2300	390
86-30-6	N-Nitrosodiphenylamine	1960	J	2300	1900
91-20-3	Naphthalene	2090	J	2300	300
98-95-3	Nitrobenzene	2040	J	2300	260
87-86-5	Pentachlorophenol	4390	J	4400	2300
85-01-8	Phenanthrene	5020		2300	340
108-95-2	Phenol	1490	J	2300	350
129-00-0	Pyrene	6850		2300	270

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MS | Lab Sample ID: 480-127239-3 MS

Matrix: Solid | Lab File ID: X207623.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.16(g) | Date Analyzed: 11/16/2017 16:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	127	X	54-120
321-60-8	2-Fluorobiphenyl	87		60-120
367-12-4	2-Fluorophenol	67		52-120
4165-60-0	Nitrobenzene-d5	94		53-120
1718-51-0	p-Terphenyl-d14	60	X	65-121
4165-62-2	Phenol-d5	80		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207623.D
Lims ID: 480-127239-A-3-G MS
Client ID: NS-SOUTH-SOIL 0-2"
Sample Type: MS
Inject. Date: 16-Nov-2017 16:26:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0067330-012
Operator ID: dr Instrument ID: HP5973X

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Nov-2017 11:33:08 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: richardsd Date: 16-Nov-2017 18:49:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.036	5.030	0.006	96	146389	4.00	40.0	
* 2 Naphthalene-d8	136	6.617	6.606	0.011	99	495545	4.00	40.0	
* 3 Acenaphthene-d10	164	8.684	8.674	0.010	95	250169	4.00	40.0	
* 4 Phenanthrene-d10	188	10.351	10.346	0.005	99	521853	4.00	40.0	
* 5 Chrysene-d12	240	12.771	12.766	0.005	99	520047	4.00	40.0	
* 6 Perylene-d12	264	13.893	13.888	0.005	99	456301	4.00	40.0	
$ 7 2-Fluorophenol	112	3.187	3.161	0.026	94	12689	4.00	2.69	
$ 8 Phenol-d5	99	4.635	4.608	0.027	90	18335	4.00	3.21	
$ 9 Nitrobenzene-d5	82	5.752	5.730	0.022	89	19060	4.00	3.78	
$ 10 2-Fluorobiphenyl	172	7.926	7.905	0.022	99	36018	4.00	3.48	
$ 11 2,4,6-Tribromophenol	330	9.598	9.593	0.005	91	4971	4.00	5.09	
$ 12 p-Terphenyl-d14	244	11.890	11.879	0.011	98	39672	4.00	2.41	
199 2-Chlorotoluene	91		-0.700					ND	
213 Chlorobenzotrifluoride N.O	1		-0.700					ND	
191 N-Methylaniline	1		-0.700					ND	
204 Chlorotoluene N.O.S	1		-0.700					ND	
211 5-Ethyl-5-phenyl barbituri	1		-0.700					ND	
205 Lidocaine	1		-0.700					ND	
15 1,4-Dioxane	88	1.136	1.125	0.011	48	4369	5.00	1.99	
16 N-Nitrosodimethylamine	42	1.360	1.344	0.016	91	8634	5.00	4.21	
17 Pyridine	52	1.398	1.376	0.022	91	11959	10.0	2.74	
18 2-Picoline	93		2.382					ND	
19 N-Nitrosomethylethylamine	88		2.558					ND	
20 Methyl methanesulfonate	80		3.098					ND	
21 Acrylamide	44		3.146					ND	
24 N-Nitrosodiethylamine	102		3.712					ND	
22 4-Chloropyridine	78		3.828					ND	
23 3-Chloropyridine	78		3.908					ND	
25 Ethyl methanesulfonate	79		4.187					ND	
26 2-Chloropyridine	78		4.400					ND	
27 Benzaldehyde	77	4.448	4.421	0.027	89	24240	10.0	7.13	
29 Aniline	93	4.614	4.587	0.027	60	15255	5.00	2.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
28 Phenol	94	4.651	4.624	0.027	88	21147	5.00	3.32	
31 Bis(2-chloroethyl)ether	93	4.726	4.699	0.027	90	16953	5.00	3.65	
32 2-Chlorophenol	128	4.769	4.742	0.027	95	19623	5.00	4.25	
30 Pentachloroethane	167		4.812					ND	
35 n-Decane	57	4.886	4.865	0.021	87	12449	5.00	2.57	
36 1,3-Dichlorobenzene	146	4.961	4.934	0.027	97	19689	5.00	3.61	
37 1,4-Dichlorobenzene	146	5.057	5.036	0.021	14	21435	5.00	3.80	
34 n,n'-Dimethylaniline	120		5.162					ND	
39 1,2-Dichlorobenzene	146	5.249	5.228	0.021	94	20359	5.00	2.49	
38 Benzyl alcohol	108	5.255	5.233	0.022	92	12212	5.00	3.78	
33 p-Fluoroaniline	111	5.249	5.259	-0.010	59	8887		NC	
229 Indene	115	5.362	5.346	0.016	83	140949	20.0	17.3	
42 2,2'-oxybis[1-chloropropan	45	5.442	5.410	0.032	64	12373	5.00	0.8062	
40 2-Methylphenol	108	5.436	5.410	0.026	91	17154	5.00	3.07	
45 Acetophenone	105	5.575	5.549	0.026	89	28430	5.00	4.68	
47 N-Nitrosodi-n-propylamine	70	5.597	5.575	0.022	80	14982	5.00	4.76	
46 4-Methylphenol	108	5.650	5.618	0.032	94	17742	5.00	4.14	
49 4-Methylbenzenamine	106		5.629					ND	
50 Hexachloroethane	117	5.671	5.645	0.026	92	9802	5.00	4.75	
43 N-Nitrosopyrrolidine	100		5.683					ND	
44 N-Nitrosomorpholine	56		5.742					ND	
52 Nitrobenzene	77	5.778	5.752	0.026	91	22581	5.00	4.54	
48 2-Toluidine	106		5.763					ND	
51 o-Anisidine	108		5.906					ND	
53 2,6-Dichloropyridine	112		5.996					ND	
56 Isophorone	82	6.083	6.056	0.027	97	35640	5.00	4.76	
212 2,4-Dichlorotoluene	125		6.093					ND	
54 N-Nitrosopiperidine	114		6.100					ND	
57 2-Chloroaniline	127		6.126					ND	
58 2-Nitrophenol	139	6.174	6.147	0.027	91	8967	5.00	4.69	
206 1,3,5-Trichlorobenzene	180		6.211					ND	
59 2,4-Dimethylphenol	107	6.286	6.259	0.027	92	23393	5.00	4.77	
61 Tetraethyl lead	237		6.297					ND	
62 Bis(2-chloroethoxy)methane	93	6.382	6.361	0.021	92	22142	5.00	4.04	
65 2,4-Dichlorophenol	162	6.489	6.457	0.032	95	15554	5.00	4.15	
60 o,o',o''-Triethylphosphoro	198		6.490					ND	
64 Benzoic acid	105	6.494	6.505	-0.011	1	1614	20.0	14.1	
67 1,2,4-Trichlorobenzene	180	6.564	6.542	0.022	94	18907	5.00	4.01	
69 Naphthalene	128	6.644	6.617	0.027	99	60848	5.00	4.66	
63 alpha,alpha-Dimethyl phene	58		6.655					ND	
299 1,3-Dibromobenzene TIC	236		6.676					ND	
41 Alpha-Terpineol	59		6.681					ND	
184 4-Chlorophenol	128		6.708					ND	
66 5-Methyl-o-Anisidine	122		6.716					ND	
71 4-Chloroaniline	127	6.745	6.719	0.026	70	13339	5.00	2.45	
70 2,6-Dichlorophenol	162	6.751	6.724	0.027	89	17337	5.00	4.51	
300 1,4-Dibromobenzene TIC	236		6.724					ND	
73 Hexachlorobutadiene	225	6.825	6.804	0.021	95	14198	5.00	4.40	
72 Hexachloropropene	213		6.896					ND	
78 Caprolactam	113	7.119	7.141	-0.022	88	9726	10.0	7.73	
74 Quinoline	129		7.179					ND	
77 p-Phenylene diamine	108		7.297					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
76 N-Nitrosodi-n-butylamine	84		7.302					ND	
79 4-Chloro-3-methylphenol	107	7.370	7.349	0.021	94	19006	5.00	5.26	
82 2-Methylnaphthalene	142	7.477	7.450	0.027	97	38091	5.00	4.21	
267 2,4,5-Trichlorotoluene	159		7.466					ND	
80 Safrole, Total	162		7.532					ND	
55 Phthalic anhydride	104		7.552					ND	
83 1-Methylnaphthalene	142	7.589	7.563	0.026	94	38830	5.00	4.70	
84 Hexachlorocyclopentadiene	237	7.680	7.653	0.027	73	9317	5.00	4.00	
85 1,2,4,5-Tetrachlorobenzene	216	7.680	7.659	0.021	95	20578	5.00	4.12	
269 2,3-Dichlorobenzenamine	161		7.803					ND	
86 2,4,6-Trichlorophenol	196	7.835	7.814	0.021	91	12689	5.00	5.47	
87 2,4,5-Trichlorophenol	196	7.883	7.856	0.027	95	12873	5.00	5.17	
292 Isosafrole Peak 1	162		7.873					ND	
90 1,1'-Biphenyl	154	8.033	8.017	0.016	97	48095	5.00	4.60	
91 2-Chloronaphthalene	162	8.038	8.017	0.021	97	39721	5.00	4.80	
270 1,2,3,4 -Tetrachlorobenzen	216		8.033					ND	
89 Isosafrole	162		8.141					ND	
294 Isosafrole Peak 2	162		8.141					ND	
93 2-Nitroaniline	65	8.182	8.166	0.016	91	9369	5.00	5.14	
92 1-Chloronaphthalene	162		8.194					ND	
68 Dicyclohexylamine	138		8.279					ND	
94 1,4-Naphthoquinone	158		8.386					ND	
96 Dimethyl phthalate	163	8.417	8.412	0.005	97	45918	5.00	5.06	
97 1,3-Dinitrobenzene	168	8.439	8.423	0.016	27	6632	5.00	4.64	
99 2,6-Dinitrotoluene	165	8.476	8.460	0.016	84	9649	5.00	5.13	
95 1,4-Dinitrobenzene	168		8.477					ND	
100 Acenaphthylene	152	8.513	8.497	0.016	99	61038	5.00	5.20	
101 3-Nitroaniline	138	8.663	8.652	0.011	76	8265	5.00	4.60	
102 Acenaphthene	153	8.716	8.706	0.010	97	40288	5.00	5.15	
103 2,4-Dinitrophenol	184	8.818	8.775	0.043	1	532	10.0	9.26	
107 Dibenzofuran	168	8.919	8.909	0.010	98	60947	5.00	5.35	
104 4-Nitrophenol	109	8.925	8.909	0.016	41	13681	10.0	15.7	
106 2,4-Dinitrotoluene	165	8.941	8.930	0.011	90	12712	5.00	5.25	
105 Pentachlorobenzene	250		9.022					ND	
110 2,3,4,6-Tetrachlorophenol	232	9.090	9.074	0.016	90	11082	5.00	5.91	
108 1-Naphthylamine	143		9.156					ND	
109 2,3,5,6-Tetrachlorophenol	232		9.177					ND	
112 Diethyl phthalate	149	9.245	9.245	0.000	99	51614	5.00	5.80	
111 2-Naphthylamine	143		9.246					ND	
138 Hexadecane	57	9.299	9.288	0.011	92	17822	5.00	3.65	
115 Fluorene	166	9.320	9.304	0.016	98	49873	5.00	5.40	
116 4-Chlorophenyl phenyl ethe	204	9.347	9.336	0.011	97	25426	5.00	4.89	
118 4-Nitroaniline	138	9.368	9.363	0.005	86	7107	5.00	4.33	
119 4,6-Dinitro-2-methylphenol	198	9.416	9.406	0.010	89	6943	10.0	9.44	
114 Thionazin	97		9.465					ND	
120 N-Nitrosodiphenylamine	169	9.486	9.480	0.006	96	30216	5.00	4.38	
121 Diphenylamine	169	9.486	9.480	0.006	96	30216	4.28	3.74	
117 N-Nitro-o-toluidine	152	9.523	9.492	0.031	50	5685		3.26	
122 Azobenzene	77	9.523	9.513	0.010	96	44325	5.00	4.97	
123 1,2-Diphenylhydrazine	77	9.523	9.513	0.010	99	44325	5.00	4.97	
81 Tributyl phosphate	99		9.523					ND	
124 Sulfotepp	322		9.845					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
130 4-Bromophenyl phenyl ether	248	9.897	9.892	0.005	92	13867	5.00	4.33	
131 Hexachlorobenzene	284	9.956	9.945	0.011	96	13991	5.00	4.34	
125 1,3,5-Trinitrobenzene	213		9.957					ND	
295 Diallate Peak 1	43		9.962					ND	
127 Diallate	43		9.962					ND	
128 Phorate	75		9.968					ND	
129 Phenacetin	108		10.010					ND	
297 Diallate Peak 2	43		10.053					ND	
88 Simazine	201		10.079					ND	
133 Atrazine	200	10.116	10.116	0.000	93	28092	10.0	10.6	
132 Dimethoate	87		10.149					ND	
134 Pentachlorophenol	266	10.186	10.170	0.016	82	6142	10.0	9.80	
135 4-Aminobiphenyl	169		10.315					ND	
136 Pentachloronitrobenzene	237		10.320					ND	
113 n-Octadecane	57	10.335	10.330	0.005	92	18957	5.00	4.26	
141 Phenanthrene	178	10.378	10.367	0.011	99	149755	5.00	11.2	
137 Pronamide	173		10.411					ND	
142 Anthracene	178	10.431	10.421	0.010	99	80140	5.00	5.70	
140 Disulfoton	88		10.523					ND	
139 Dinoseb	211		10.523					ND	
143 Carbazole	167	10.613	10.602	0.011	100	71422	5.00	5.65	
98 Alachlor	160		10.779					ND	
144 Methyl parathion	109		10.892					ND	
271 2-Methylanthracene	192	10.939	10.966	-0.027	89	4979		NC	
145 Di-n-butyl phthalate	149	11.003	10.992	0.011	99	84256	5.00	6.22	
148 Anthraquinone	180	11.169	11.169	0.000	57	2856		2.13	
147 4-Nitroquinoline-1-oxide	190		11.271					ND	
146 Ethyl Parathion	97		11.271					ND	
149 Methapyrilene	58		11.367					ND	
151 Isodrin	193		11.506					ND	
152 Fluoranthene	202	11.527	11.516	0.010	99	266322	5.00	17.1	
153 1-Hydroxyanthraquinone	224		11.564					ND	
150 Octachlorostyrene	308		11.564					ND	
154 Benzidine	184	11.676	11.660	0.016	97	10305	10.0	1.74	
155 Pyrene	202	11.724	11.714	0.010	98	224184	5.00	15.3	
157 1,4-Dihydroxyanthraquinone	240		11.975					ND	
293 Aramite Peak 1	185		12.008					ND	
296 Aramite Peak 2	185		12.072					ND	
156 Aramite, Total	185		12.072					ND	
158 p-Dimethylamino azobenzene	120		12.131					ND	
159 Chlorobenzilate	139		12.179					ND	
160 Famphur	218		12.269					ND	
162 Butyl benzyl phthalate	149	12.328	12.323	0.005	99	35009	5.00	6.17	
126 Kepone	272		12.323					ND	
163 9-Octadecenamide	72		12.349					ND	
161 3,3'-Dimethylbenzidine	212		12.425					ND	
164 2-Acetylaminofluorene	181		12.639					ND	
166 3,3'-Dichlorobenzidine	252	12.755	12.745	0.010	86	42363	10.0	8.46	
167 Benzo[a]anthracene	228	12.761	12.750	0.011	98	164323	5.00	11.3	
169 Chrysene	228	12.787	12.782	0.005	98	146627	5.00	10.8	
172 Bis(2-ethylhexyl) phthalat	149	12.825	12.814	0.011	97	54465	5.00	6.83	
165 4,4'-Methylene bis(2-chlor	231		12.874					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
170 6-Methylchrysene	242		13.280					ND	
168 Di-n-octyl phthalate	149	13.332	13.322	0.010	99	76487	5.00	5.49	
174 Benzo[b]fluoranthene	252	13.610	13.599	0.011	98	164242	5.00	12.5	
175 Benzo[k]fluoranthene	252	13.631	13.621	0.010	97	128911	5.00	8.69	
173 7,12-Dimethylbenz(a)anthra	256		13.729					ND	
268 Benzo[e]pyrene	252	13.850	13.840	0.010	97	131911		NC	
177 Benzo[a]pyrene	252	13.850	13.840	0.010	99	131911	5.00	9.93	
178 3-Methylcholanthrene	252		14.220					ND	
176 Hexachlorophene	196		14.501					ND	
179 Dibenz[a,h]acridine	279		14.621					ND	
180 Indeno[1,2,3-cd]pyrene	276	14.641	14.636	0.005	95	108923	5.00	7.00	
181 Dibenz(a,h)anthracene	278	14.652	14.646	0.006	87	74204	5.00	5.52	
182 Benzo[g,h,i]perylene	276	14.844	14.839	0.005	98	96265	5.00	7.18	
183 Dibenzo[a,e]pyrene	302		19.913					ND	
217 1-Bromopropane	1		-0.700					ND	
215 1-Methylcyclopentanol	1		-0.700					ND	
275 1,2,3-Trimethylbenzene	105		-0.700					ND	
225 2,4-Toluene diamine	1		-0.700					ND	
278 Photomirex TIC	1		-0.700					ND	
223 2-Chlorobenzotrifluoride	1		-0.700					ND	
221 CBF-500	1		-0.700					ND	
195 Phenylacetic Acid	1		-0.700					ND	
287 2,6-Dichlorotoluene TIC	1		-0.700					ND	
219 alpha,alpha-Dimethyl phene	1		-0.700					ND	
208 n,n'-Dimethylacetamide	1		-0.700					ND	
216 4-Chlorobenzotrifluoride	1		-0.700					ND	
291 3-Chlorobenzotrifluoride T	1		-0.700					ND	
185 Phenylmercaptan	110		-0.700					ND	
200 Dibenzo[a,h]pyrene	1		-0.700					ND	
188 CAG-800	1		-0.700					ND	
272 Benzophenone	1		-0.700					ND	
194 CN-500	1		-0.700					ND	
224 CBF-400	1		-0.700					ND	
209 7H-Dibenzo[c,g]carbazole	1		-0.700					ND	
298 2-Aminopyridine TIC	1		-0.700					ND	
274 Phenyl ether	1		-0.700					ND	
193 Dibenz(a,i)pyrene	1		-0.700					ND	
186 Dibenz[a,j]acridine	279		-0.700					ND	
201 2,3-Dichlorophenol	1		-0.700					ND	
273 4-tert-Octylphenol	1		-0.700					ND	
202 4-Chlorotoluene	91		-0.700					ND	
289 2-Chlorobenzotrifluoride T	1		-0.700					ND	
277 1,4-Dioxane TIC	1		-0.700					ND	
196 CU-600	1		-0.700					ND	
210 3-Chlorotoluene	1		-0.700					ND	
207 3-Chlorobenzotrifluoride	1		-0.700					ND	
290 2,4-Dichlorotoluene TIC	1		-0.700					ND	
190 Benzeneacetonitrile	1		-0.700					ND	
192 NVF-400	1		-0.700					ND	
203 Pendimethalin	1		-0.700					ND	
276 4-Chloro-3-nitro-alpha,alp	1		-0.700					ND	
230 Pentachlorophenol_T	266	10.186	10.170	0.016	80	6142		NR	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
233 4,4'-DDE	246		11.662					ND	
232 Benzidine_T	184	11.676	11.666	0.010	97	10305			NR
234 4,4'-DDD	235		12.141					ND	
235 4,4'-DDT	235		12.392					ND	
S 236 3 & 4 Methylphenol	108				0			4.14	
S 239 EPH Adjustment 1	1		-0.700					ND	
S 238 3-Methylphenol	1				0		5.00	4.14	
S 237 Total Cresols	1				0			7.21	
T 306 Fluorobenzene TIC	96		0.976					ND	
T 311 1-Bromo-2-chloroethane TIC	63		1.328					ND	
T 301 Ethylene Dibromide TIC	107		2.194					ND	
T 288 4-Chlorobenzotrifluoride T	180		2.942					ND	
T 308 1-Bromo-3-fluorobenzene TI	95		3.855					ND	
T 304 4-Bromofluorobenzene TIC	174		4.026					ND	
T 305 1,2-dichloro-4-(trifluorom	214		4.865					ND	
T 307 2-Bromopyridine TIC	78		5.169					ND	
T 245 2,4-Xylidine TIC	121		5.300					ND	
T 242 5-Methyl-o-Anisidine TIC	122		5.300					ND	
T 240 o-Anisidine TIC	108		5.300					ND	
T 243 Tris(2,3-dibromopropyl)pho	201		5.300					ND	
T 241 1,3-phenylenediamine TIC	108		5.300					ND	
T 244 4,4'-Methylene bis(2-chlor	231		5.300					ND	
T 309 1-Bromo-4-ethylbenzene TIC	169		6.291					ND	
T 302 3-Nitro-4-Chlorobenzotrifl	179		6.382					ND	
T 310 3-Amino-4-Chlorobenzotrifl	195		6.414					ND	
T 248 Tetramethyl lead TIC	253		7.300					ND	
T 250 Pendimethalin (TIC)	252		7.300					ND	
T 246 Benefin (TIC)	292		7.300					ND	
T 247 Benzeneacetic acid (TIC)	91		7.300					ND	
T 251 Prometryn (TIC)	241		7.300					ND	
T 303 3'-Bromoacetophenone TIC	183		7.643					ND	
T 252 1-Methylnaphthalene (TIC)	142	7.589	7.778	-0.184	91	38830		6.21	
T 249 trans Azobenzene (TIC)	77	9.523	9.841	-0.312	94	44325		7.09	
T 253 Hexamethyldisiloxane TIC	147		2.300					ND	
T 254 2,3,7,8-TCDD	322		7.300					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

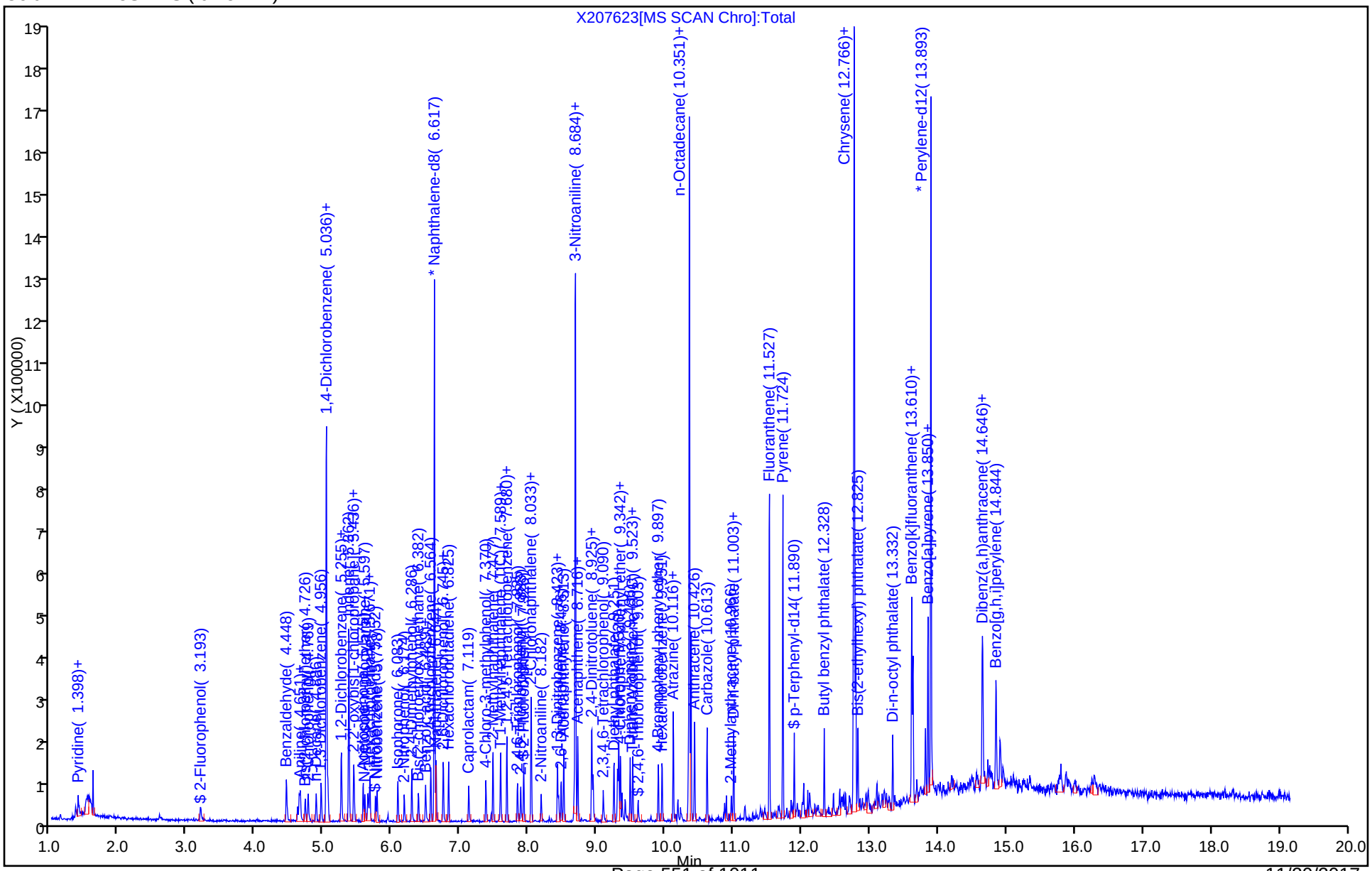
Report Date: 20-Nov-2017 11:33:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207623.D

Injection Date:	16-Nov-2017 16:26:30	Instrument ID:	HP5973X	Operator ID:	dr
Lims ID:	480-127239-A-3-G MS			Worklist Smp#:	12
Client ID:	NS-SOUTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	12
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MS | Lab Sample ID: 480-127239-9 MS

Matrix: Solid | Lab File ID: X207625.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.40(g) | Date Analyzed: 11/16/2017 17:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1850	J	2100	300
108-60-1	bis (2-chloroisopropyl) ether	ND		2100	410
95-95-4	2,4,5-Trichlorophenol	1710	J	2100	560
88-06-2	2,4,6-Trichlorophenol	2020	J	2100	410
120-83-2	2,4-Dichlorophenol	1740	J	2100	220
105-67-9	2,4-Dimethylphenol	1760	J	2100	500
51-28-5	2,4-Dinitrophenol	ND		20000	9500
121-14-2	2,4-Dinitrotoluene	2060	J	2100	420
606-20-2	2,6-Dinitrotoluene	1770	J	2100	240
91-58-7	2-Chloronaphthalene	1730	J	2100	340
95-57-8	2-Chlorophenol	1560	J	2100	380
91-57-6	2-Methylnaphthalene	1640	J	2100	410
95-48-7	2-Methylphenol	1190	J	2100	240
88-74-4	2-Nitroaniline	2020	J	4000	300
88-75-5	2-Nitrophenol	1950	J	2100	580
91-94-1	3,3'-Dichlorobenzidine	3670	J	4000	2400
99-09-2	3-Nitroaniline	1760	J	4000	570
534-52-1	4,6-Dinitro-2-methylphenol	4030		4000	2100
101-55-3	4-Bromophenyl phenyl ether	1790	J	2100	290
59-50-7	4-Chloro-3-methylphenol	2000	J	2100	510
106-47-8	4-Chloroaniline	1200	J	2100	510
7005-72-3	4-Chlorophenyl phenyl ether	1980	J	2100	250
106-44-5	4-Methylphenol	1810	J	4000	240
100-01-6	4-Nitroaniline	1960	J	4000	1100
100-02-7	4-Nitrophenol	5680		4000	1400
83-32-9	Acenaphthene	1930	J	2100	300
208-96-8	Acenaphthylene	1910	J	2100	270
98-86-2	Acetophenone	1810	J	2100	280
120-12-7	Anthracene	2230		2100	510
1912-24-9	Atrazine	3830		2100	720
100-52-7	Benzaldehyde	2280		2100	1600
56-55-3	Benzo(a)anthracene	3150		2100	210
50-32-8	Benzo(a)pyrene	3070		2100	300
205-99-2	Benzo(b)fluoranthene	4160		2100	330

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MS | Lab Sample ID: 480-127239-9 MS

Matrix: Solid | Lab File ID: X207625.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.40(g) | Date Analyzed: 11/16/2017 17:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	2670		2100	220
207-08-9	Benzo(k)fluoranthene	2370		2100	270
111-91-1	Bis(2-chloroethoxy)methane	1510	J	2100	440
111-44-4	Bis(2-chloroethyl)ether	1430	J	2100	270
117-81-7	Bis(2-ethylhexyl) phthalate	2390		2100	700
85-68-7	Butyl benzyl phthalate	2330		2100	340
105-60-2	Caprolactam	3430		2100	620
86-74-8	Carbazole	2030	J	2100	240
218-01-9	Chrysene	3140		2100	460
84-74-2	Di-n-butyl phthalate	2420		2100	350
117-84-0	Di-n-octyl phthalate	2310		2100	240
53-70-3	Dibenz(a,h)anthracene	2190		2100	360
132-64-9	Dibenzofuran	1910	J	2100	240
84-66-2	Diethyl phthalate	2020	J	2100	270
131-11-3	Dimethyl phthalate	1990	J	2100	240
206-44-0	Fluoranthene	4440		2100	220
86-73-7	Fluorene	1960	J	2100	240
118-74-1	Hexachlorobenzene	2000	J	2100	280
87-68-3	Hexachlorobutadiene	1810	J	2100	300
77-47-4	Hexachlorocyclopentadiene	1510	J	2100	280
67-72-1	Hexachloroethane	1600	J	2100	270
193-39-5	Indeno(1,2,3-cd)pyrene	2760		2100	250
78-59-1	Isophorone	1890	J	2100	440
621-64-7	N-Nitrosodi-n-propylamine	1810	J	2100	350
86-30-6	N-Nitrosodiphenylamine	1870	J	2100	1700
91-20-3	Naphthalene	1650	J	2100	270
98-95-3	Nitrobenzene	1600	J	2100	230
87-86-5	Pentachlorophenol	4240		4000	2100
85-01-8	Phenanthrene	2900		2100	300
108-95-2	Phenol	1390	J	2100	320
129-00-0	Pyrene	4290		2100	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MS | Lab Sample ID: 480-127239-9 MS

Matrix: Solid | Lab File ID: X207625.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.40(g) | Date Analyzed: 11/16/2017 17:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	135	X	54-120
321-60-8	2-Fluorobiphenyl	92		60-120
367-12-4	2-Fluorophenol	61		52-120
4165-60-0	Nitrobenzene-d5	79		53-120
1718-51-0	p-Terphenyl-d14	59	X	65-121
4165-62-2	Phenol-d5	69		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207625.D
Lims ID: 480-127239-A-9-G MS
Client ID: NS-SOUTH-SOIL 2-12"
Sample Type: MS
Inject. Date: 16-Nov-2017 17:19:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0067330-014
Operator ID: dr Instrument ID: HP5973X

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Nov-2017 11:33:08 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: richardsd Date: 16-Nov-2017 18:53:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.036	5.030	0.006	95	146221	4.00	40.0	
* 2 Naphthalene-d8	136	6.617	6.606	0.011	99	500897	4.00	40.0	
* 3 Acenaphthene-d10	164	8.679	8.674	0.005	96	259023	4.00	40.0	
* 4 Phenanthrene-d10	188	10.346	10.346	0.000	99	509075	4.00	40.0	
* 5 Chrysene-d12	240	12.766	12.766	0.000	99	505133	4.00	40.0	
* 6 Perylene-d12	264	13.888	13.888	0.000	98	453029	4.00	40.0	
$ 7 2-Fluorophenol	112	3.193	3.161	0.032	90	11539	4.00	2.44	
$ 8 Phenol-d5	99	4.635	4.608	0.027	93	15748	4.00	2.76	
$ 9 Nitrobenzene-d5	82	5.752	5.730	0.022	94	16056	4.00	3.15	
$ 10 2-Fluorobiphenyl	172	7.921	7.905	0.017	98	39440	4.00	3.68	
$ 11 2,4,6-Tribromophenol	330	9.593	9.593	0.000	89	5332	4.00	5.41	
$ 12 p-Terphenyl-d14	244	11.885	11.879	0.006	95	37902	4.00	2.34	
199 2-Chlorotoluene	91		-0.700					ND	
213 Chlorobenzotrifluoride N.O	1		-0.700					ND	
191 N-Methylaniline	1		-0.700					ND	
204 Chlorotoluene N.O.S	1		-0.700					ND	
211 5-Ethyl-5-phenyl barbituri	1		-0.700					ND	
205 Lidocaine	1		-0.700					ND	
15 1,4-Dioxane	88	1.131	1.125	0.006	80	3003	5.00	1.37	
16 N-Nitrosodimethylamine	42	1.360	1.344	0.016	85	8156	5.00	3.98	
17 Pyridine	52	1.398	1.376	0.022	88	12180	10.0	2.82	
18 2-Picoline	93		2.382					ND	
19 N-Nitrosomethylethylamine	88		2.558					ND	
20 Methyl methanesulfonate	80		3.098					ND	
21 Acrylamide	44		3.146					ND	
24 N-Nitrosodiethylamine	102		3.712					ND	
22 4-Chloropyridine	78		3.828					ND	
23 3-Chloropyridine	78		3.908					ND	
25 Ethyl methanesulfonate	79		4.187					ND	
26 2-Chloropyridine	78		4.400					ND	
27 Benzaldehyde	77	4.448	4.421	0.027	88	19166	10.0	5.65	
29 Aniline	93	4.608	4.587	0.021	94	15331	5.00	2.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
28 Phenol	94	4.651	4.624	0.027	81	21828	5.00	3.43	
31 Bis(2-chloroethyl)ether	93	4.726	4.699	0.027	89	16394	5.00	3.53	
32 2-Chlorophenol	128	4.763	4.742	0.021	94	17818	5.00	3.86	
30 Pentachloroethane	167		4.812					ND	
35 n-Decane	57	4.886	4.865	0.021	90	11894	5.00	2.46	
36 1,3-Dichlorobenzene	146	4.961	4.934	0.027	95	18646	5.00	3.42	
37 1,4-Dichlorobenzene	146	5.057	5.036	0.021	89	20935	5.00	3.71	
34 n,n'-Dimethylaniline	120		5.162					ND	
39 1,2-Dichlorobenzene	146	5.250	5.228	0.022	93	20446	5.00	2.52	
38 Benzyl alcohol	108	5.255	5.233	0.022	92	12019	5.00	3.72	
33 p-Fluoroaniline	111	5.250	5.259	-0.009	65	9136		NC	
229 Indene	115	5.362	5.346	0.016	84	131423	20.0	16.6	
42 2,2'-oxybis[1-chloropropan	45	5.436	5.410	0.026	63	12290	5.00	0.7909	
40 2-Methylphenol	108	5.436	5.410	0.026	87	16634	5.00	2.94	
45 Acetophenone	105	5.570	5.549	0.021	93	27205	5.00	4.48	
47 N-Nitrosodi-n-propylamine	70	5.597	5.575	0.022	81	14072	5.00	4.48	
46 4-Methylphenol	108	5.645	5.618	0.027	95	19120	5.00	4.47	
49 4-Methylbenzenamine	106		5.629					ND	
50 Hexachloroethane	117	5.672	5.645	0.027	90	8148	5.00	3.96	
43 N-Nitrosopyrrolidine	100		5.683					ND	
44 N-Nitrosomorpholine	56		5.742					ND	
52 Nitrobenzene	77	5.778	5.752	0.026	92	19826	5.00	3.95	
48 2-Toluidine	106		5.763					ND	
51 o-Anisidine	108		5.906					ND	
53 2,6-Dichloropyridine	112		5.996					ND	
56 Isophorone	82	6.083	6.056	0.027	96	35309	5.00	4.67	
212 2,4-Dichlorotoluene	125		6.093					ND	
54 N-Nitrosopiperidine	114		6.100					ND	
57 2-Chloroaniline	127		6.126					ND	
58 2-Nitrophenol	139	6.174	6.147	0.027	92	9389	5.00	4.81	
206 1,3,5-Trichlorobenzene	180		6.211					ND	
59 2,4-Dimethylphenol	107	6.286	6.259	0.027	93	21561	5.00	4.35	
61 Tetraethyl lead	237		6.297					ND	
62 Bis(2-chloroethoxy)methane	93	6.382	6.361	0.021	91	20634	5.00	3.73	
65 2,4-Dichlorophenol	162	6.484	6.457	0.027	94	16375	5.00	4.30	
60 o,o',o''-Triethylphosphoro	198		6.490					ND	
64 Benzoic acid	105	6.478	6.505	-0.027	1	5797	20.0	15.5	M
67 1,2,4-Trichlorobenzene	180	6.564	6.542	0.022	95	20101	5.00	4.22	
69 Naphthalene	128	6.639	6.617	0.021	98	53880	5.00	4.08	
63 alpha,alpha-Dimethyl phene	58		6.655					ND	
299 1,3-Dibromobenzene TIC	236		6.676					ND	
41 Alpha-Terpineol	59		6.681					ND	
184 4-Chlorophenol	128		6.708					ND	
66 5-Methyl-o-Anisidine	122		6.716					ND	
71 4-Chloroaniline	127	6.740	6.719	0.021	85	16141	5.00	2.96	
70 2,6-Dichlorophenol	162	6.745	6.724	0.021	87	16460	5.00	4.24	
300 1,4-Dibromobenzene TIC	236		6.724					ND	
73 Hexachlorobutadiene	225	6.825	6.804	0.021	96	14577	5.00	4.47	
72 Hexachloropropene	213		6.896					ND	
78 Caprolactam	113	7.119	7.141	-0.022	90	10833	10.0	8.47	
74 Quinoline	129		7.179					ND	
77 p-Phenylene diamine	108		7.297					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
76 N-Nitrosodi-n-butylamine	84		7.302					ND	
79 4-Chloro-3-methylphenol	107	7.365	7.349	0.016	93	17969	5.00	4.95	
82 2-Methylnaphthalene	142	7.472	7.450	0.022	98	37078	5.00	4.05	
267 2,4,5-Trichlorotoluene	159		7.466					ND	
80 Safrole, Total	162		7.532					ND	
55 Phthalic anhydride	104		7.552					ND	
83 1-Methylnaphthalene	142	7.584	7.563	0.021	97	37053	5.00	4.44	
84 Hexachlorocyclopentadiene	237	7.675	7.653	0.022	68	8547	5.00	3.74	
85 1,2,4,5-Tetrachlorobenzene	216	7.675	7.659	0.016	93	21107	5.00	4.08	
269 2,3-Dichlorobenzenamine	161		7.803					ND	
86 2,4,6-Trichlorophenol	196	7.835	7.814	0.021	93	11583	5.00	5.00	
87 2,4,5-Trichlorophenol	196	7.878	7.856	0.022	93	10070	5.00	4.24	
292 Isosafrole Peak 1	162		7.873					ND	
90 1,1'-Biphenyl	154	8.027	8.017	0.010	97	49465	5.00	4.57	
91 2-Chloronaphthalene	162	8.033	8.017	0.016	95	36652	5.00	4.28	
270 1,2,3,4 -Tetrachlorobenzen	216		8.033					ND	
89 Isosafrole	162		8.141					ND	
294 Isosafrole Peak 2	162		8.141					ND	
93 2-Nitroaniline	65	8.177	8.166	0.011	91	9322	5.00	4.98	
92 1-Chloronaphthalene	162		8.194					ND	
68 Dicyclohexylamine	138		8.279					ND	
94 1,4-Naphthoquinone	158		8.386					ND	
96 Dimethyl phthalate	163	8.417	8.412	0.005	95	46119	5.00	4.91	
97 1,3-Dinitrobenzene	168	8.433	8.423	0.010	89	6010	5.00	4.23	
99 2,6-Dinitrotoluene	165	8.471	8.460	0.011	75	8228	5.00	4.36	
95 1,4-Dinitrobenzene	168		8.477					ND	
100 Acenaphthylene	152	8.508	8.497	0.011	99	57475	5.00	4.73	
101 3-Nitroaniline	138	8.658	8.652	0.006	79	7971	5.00	4.35	
102 Acenaphthene	153	8.711	8.706	0.005	97	38654	5.00	4.77	
103 2,4-Dinitrophenol	184	8.791	8.775	0.016	1	202	10.0	9.05	
107 Dibenzofuran	168	8.914	8.909	0.005	97	55824	5.00	4.73	
104 4-Nitrophenol	109	8.920	8.909	0.011	85	11641	10.0	14.0	
106 2,4-Dinitrotoluene	165	8.936	8.930	0.006	91	12687	5.00	5.09	
105 Pentachlorobenzene	250		9.022					ND	
110 2,3,4,6-Tetrachlorophenol	232	9.085	9.074	0.011	94	8017	5.00	4.71	
108 1-Naphthylamine	143		9.156					ND	
109 2,3,5,6-Tetrachlorophenol	232		9.177					ND	
112 Diethyl phthalate	149	9.240	9.245	-0.005	99	46004	5.00	4.99	
111 2-Naphthylamine	143		9.246					ND	
138 Hexadecane	57	9.294	9.288	0.006	87	18026	5.00	3.56	
115 Fluorene	166	9.310	9.304	0.006	97	46391	5.00	4.86	
116 4-Chlorophenyl phenyl ethe	204	9.336	9.336	0.000	97	26301	5.00	4.89	
118 4-Nitroaniline	138	9.363	9.363	0.000	93	8583	5.00	4.85	
119 4,6-Dinitro-2-methylphenol	198	9.406	9.406	0.000	91	7790	10.0	9.97	
114 Thionazin	97		9.465					ND	
120 N-Nitrosodiphenylamine	169	9.481	9.480	0.001	95	31051	5.00	4.61	
121 Diphenylamine	169	9.481	9.480	0.001	97	31051	4.28	3.94	
117 N-Nitro-o-toluidine	152		9.492					ND	
122 Azobenzene	77	9.518	9.513	0.005	93	46721	5.00	5.37	
123 1,2-Diphenylhydrazine	77	9.518	9.513	0.005	97	46721	5.00	5.37	
81 Tributyl phosphate	99		9.523					ND	
124 Sulfotepp	322		9.845					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
130 4-Bromophenyl phenyl ether	248	9.892	9.892	0.000	93	13854	5.00	4.43	
131 Hexachlorobenzene	284	9.945	9.945	0.000	95	15550	5.00	4.94	
125 1,3,5-Trinitrobenzene	213		9.957					ND	
295 Diallate Peak 1	43		9.962					ND	
127 Diallate	43		9.962					ND	
128 Phorate	75		9.968					ND	
129 Phenacetin	108		10.010					ND	
297 Diallate Peak 2	43		10.053					ND	
88 Simazine	201		10.079					ND	
133 Atrazine	200	10.111	10.116	-0.005	94	26171	10.0	9.47	
132 Dimethoate	87		10.149					ND	
134 Pentachlorophenol	266	10.180	10.170	0.010	93	7301	10.0	10.5	
135 4-Aminobiphenyl	169		10.315					ND	
136 Pentachloronitrobenzene	237		10.320					ND	
113 n-Octadecane	57	10.330	10.330	0.000	90	18997	5.00	4.36	
141 Phenanthrene	178	10.367	10.367	0.000	100	93489	5.00	7.17	
137 Pronamide	173		10.411					ND	
142 Anthracene	178	10.421	10.421	0.000	100	75633	5.00	5.52	
140 Disulfoton	88		10.523					ND	
139 Dinoseb	211		10.523					ND	
143 Carbazole	167	10.608	10.602	0.006	99	61727	5.00	5.01	
98 Alachlor	160		10.779					ND	
144 Methyl parathion	109		10.892					ND	
271 2-Methylanthracene	192	10.966	10.966	0.000	43	4058		NC	
145 Di-n-butyl phthalate	149	10.998	10.992	0.006	99	78561	5.00	5.97	
148 Anthraquinone	180		11.169					ND	
147 4-Nitroquinoline-1-oxide	190		11.271					ND	
146 Ethyl Parathion	97		11.271					ND	
149 Methapyrilene	58		11.367					ND	
151 Isodrin	193		11.506					ND	
152 Fluoranthene	202	11.521	11.516	0.005	100	167091	5.00	11.0	
153 1-Hydroxyanthraquinone	224		11.564					ND	
150 Octachlorostyrene	308		11.564					ND	
154 Benzidine	184	11.666	11.660	0.006	98	24626	10.0	4.27	
155 Pyrene	202	11.719	11.714	0.005	99	151263	5.00	10.6	
157 1,4-Dihydroxyanthraquinone	240		11.975					ND	
293 Aramite Peak 1	185		12.008					ND	
296 Aramite Peak 2	185		12.072					ND	
156 Aramite, Total	185		12.072					ND	
158 p-Dimethylamino azobenzene	120		12.131					ND	
159 Chlorobenzilate	139		12.179					ND	
160 Famphur	218		12.269					ND	
162 Butyl benzyl phthalate	149	12.323	12.323	0.000	98	31717	5.00	5.77	
126 Kepone	272		12.323					ND	
163 9-Octadecenamide	72		12.349					ND	
161 3,3'-Dimethylbenzidine	212		12.425					ND	
164 2-Acetylaminofluorene	181		12.639					ND	
166 3,3'-Dichlorobenzidine	252	12.755	12.745	0.010	84	44298	10.0	9.07	
167 Benzo[a]anthracene	228	12.761	12.750	0.011	96	112859	5.00	7.79	
169 Chrysene	228	12.787	12.782	0.005	99	102774	5.00	7.77	
172 Bis(2-ethylhexyl) phthalat	149	12.819	12.814	0.005	96	45481	5.00	5.90	
165 4,4'-Methylene bis(2-chlor	231		12.874					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
170 6-Methylchrysene	242		13.280					ND	
168 Di-n-octyl phthalate	149	13.327	13.322	0.005	99	77269	5.00	5.71	
174 Benzo[b]fluoranthene	252	13.610	13.599	0.011	98	133928	5.00	10.3	
175 Benzo[k]fluoranthene	252	13.626	13.621	0.005	96	86203	5.00	5.85	
173 7,12-Dimethylbenz(a)anthra	256		13.729					ND	
268 Benzo[e]pyrene	252	13.845	13.840	0.005	95	101411		NC	
177 Benzo[a]pyrene	252	13.845	13.840	0.005	98	101411	5.00	7.59	
178 3-Methylcholanthrene	252		14.220					ND	
176 Hexachlorophene	196		14.501					ND	
179 Dibenz[a,h]acridine	279		14.621					ND	
180 Indeno[1,2,3-cd]pyrene	276	14.641	14.636	0.005	99	105567	5.00	6.83	
181 Dibenz(a,h)anthracene	278	14.652	14.646	0.006	98	72377	5.00	5.42	
182 Benzo[g,h,i]perylene	276	14.844	14.839	0.005	99	87795	5.00	6.60	
183 Dibenzo[a,e]pyrene	302		19.913					ND	
217 1-Bromopropane	1		-0.700					ND	
215 1-Methylcyclopentanol	1		-0.700					ND	
275 1,2,3-Trimethylbenzene	105		-0.700					ND	
225 2,4-Toluene diamine	1		-0.700					ND	
278 Photomirex TIC	1		-0.700					ND	
223 2-Chlorobenzotrifluoride	1		-0.700					ND	
221 CBF-500	1		-0.700					ND	
195 Phenylacetic Acid	1		-0.700					ND	
287 2,6-Dichlorotoluene TIC	1		-0.700					ND	
219 alpha,alpha-Dimethyl phene	1		-0.700					ND	
208 n,n'-Dimethylacetamide	1		-0.700					ND	
216 4-Chlorobenzotrifluoride	1		-0.700					ND	
291 3-Chlorobenzotrifluoride T	1		-0.700					ND	
185 Phenylmercaptan	110		-0.700					ND	
200 Dibenzo[a,h]pyrene	1		-0.700					ND	
188 CAG-800	1		-0.700					ND	
272 Benzophenone	1		-0.700					ND	
194 CN-500	1		-0.700					ND	
224 CBF-400	1		-0.700					ND	
209 7H-Dibenzo[c,g]carbazole	1		-0.700					ND	
298 2-Aminopyridine TIC	1		-0.700					ND	
274 Phenyl ether	1		-0.700					ND	
193 Dibenz(a,i)pyrene	1		-0.700					ND	
186 Dibenz[a,j]acridine	279		-0.700					ND	
201 2,3-Dichlorophenol	1		-0.700					ND	
273 4-tert-Octylphenol	1		-0.700					ND	
202 4-Chlorotoluene	91		-0.700					ND	
289 2-Chlorobenzotrifluoride T	1		-0.700					ND	
277 1,4-Dioxane TIC	1		-0.700					ND	
196 CU-600	1		-0.700					ND	
210 3-Chlorotoluene	1		-0.700					ND	
207 3-Chlorobenzotrifluoride	1		-0.700					ND	
290 2,4-Dichlorotoluene TIC	1		-0.700					ND	
190 Benzeneacetonitrile	1		-0.700					ND	
192 NVF-400	1		-0.700					ND	
203 Pendimethalin	1		-0.700					ND	
276 4-Chloro-3-nitro-alpha,alp	1		-0.700					ND	
230 Pentachlorophenol_T	266	10.180	10.170	0.010	92	7301		NR	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
233 4,4'-DDE	246		11.662					ND	
232 Benzidine_T	184	11.666	11.666	0.000	98	24626			NR
234 4,4'-DDD	235		12.141					ND	
235 4,4'-DDT	235		12.392					ND	
S 236 3 & 4 Methylphenol	108				0			4.47	
S 239 EPH Adjustment 1	1		-0.700					ND	
S 238 3-Methylphenol	1				0		5.00	4.47	
S 237 Total Cresols	1				0			7.41	
T 306 Fluorobenzene TIC	96		0.976					ND	
T 311 1-Bromo-2-chloroethane TIC	63		1.328					ND	
T 301 Ethylene Dibromide TIC	107		2.194					ND	
T 288 4-Chlorobenzotrifluoride T	180		2.942					ND	
T 308 1-Bromo-3-fluorobenzene TI	95		3.855					ND	
T 304 4-Bromofluorobenzene TIC	174		4.026					ND	
T 305 1,2-dichloro-4-(trifluorom	214		4.865					ND	
T 307 2-Bromopyridine TIC	78		5.169					ND	
T 245 2,4-Xylidine TIC	121		5.300					ND	
T 242 5-Methyl-o-Anisidine TIC	122		5.300					ND	
T 240 o-Anisidine TIC	108		5.300					ND	
T 243 Tris(2,3-dibromopropyl)pho	201		5.300					ND	
T 241 1,3-phenylenediamine TIC	108		5.300					ND	
T 244 4,4'-Methylene bis(2-chlor	231		5.300					ND	
T 309 1-Bromo-4-ethylbenzene TIC	169		6.291					ND	
T 302 3-Nitro-4-Chlorobenzotrifl	179		6.382					ND	
T 310 3-Amino-4-Chlorobenzotrifl	195		6.414					ND	
T 248 Tetramethyl lead TIC	253		7.300					ND	
T 250 Pendimethalin (TIC)	252		7.300					ND	
T 246 Benefin (TIC)	292		7.300					ND	
T 247 Benzeneacetic acid (TIC)	91		7.300					ND	
T 251 Prometryn (TIC)	241		7.300					ND	
T 303 3'-Bromoacetophenone TIC	183		7.643					ND	
T 252 1-Methylnaphthalene (TIC)	142	7.584	7.778	-0.189	94	37053		5.72	
T 249 trans Azobenzene (TIC)	77	9.518	9.841	-0.317	94	46721		7.21	
T 253 Hexamethyldisiloxane TIC	147		2.300					ND	
T 254 2,3,7,8-TCDD	322		7.300					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

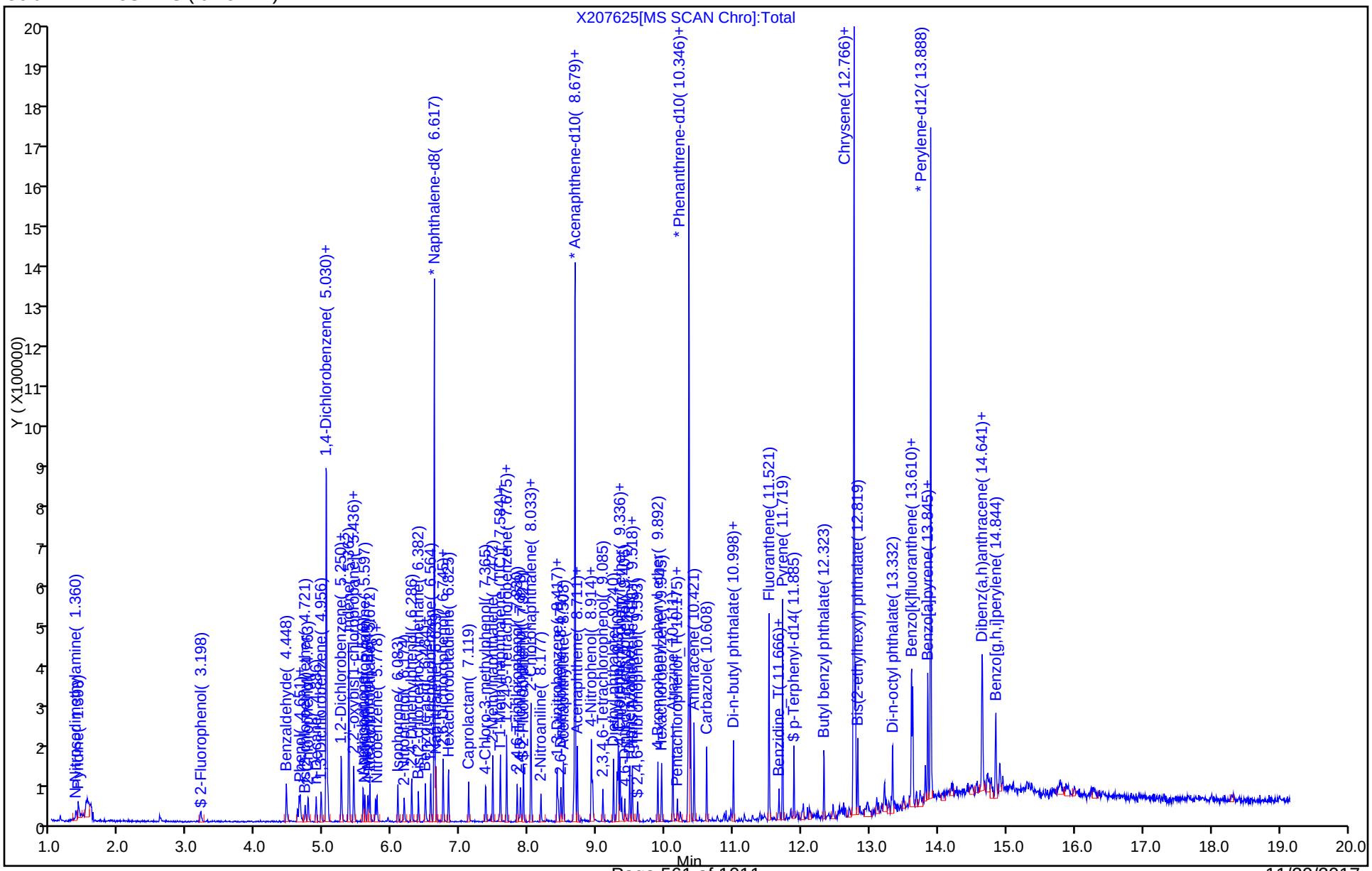
Report Date: 20-Nov-2017 11:33:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207625.D

Injection Date:	16-Nov-2017 17:19:30	Instrument ID:	HP5973X	Operator ID:	dr
Lims ID:	480-127239-A-9-G MS			Worklist Smp#:	14
Client ID:	NS-SOUTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	14
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MSD | Lab Sample ID: 480-127239-3 MSD

Matrix: Solid | Lab File ID: X207624.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.45(g) | Date Analyzed: 11/16/2017 16:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	2090	J	2300	330
108-60-1	bis (2-chloroisopropyl) ether	757	J	2300	450
95-95-4	2,4,5-Trichlorophenol	2460		2300	610
88-06-2	2,4,6-Trichlorophenol	2420		2300	450
120-83-2	2,4-Dichlorophenol	1940	J	2300	240
105-67-9	2,4-Dimethylphenol	2090	J	2300	550
51-28-5	2,4-Dinitrophenol	ND		22000	10000
121-14-2	2,4-Dinitrotoluene	2510		2300	470
606-20-2	2,6-Dinitrotoluene	2600		2300	270
91-58-7	2-Chloronaphthalene	2130	J	2300	370
95-57-8	2-Chlorophenol	1730	J	2300	410
91-57-6	2-Methylnaphthalene	2230	J	2300	450
95-48-7	2-Methylphenol	1570	J	2300	270
88-74-4	2-Nitroaniline	2340	J	4400	330
88-75-5	2-Nitrophenol	2450		2300	640
91-94-1	3,3'-Dichlorobenzidine	4360	J	4400	2700
99-09-2	3-Nitroaniline	2040	J	4400	630
534-52-1	4,6-Dinitro-2-methylphenol	4750		4400	2300
101-55-3	4-Bromophenyl phenyl ether	2260	J	2300	320
59-50-7	4-Chloro-3-methylphenol	2470		2300	560
106-47-8	4-Chloroaniline	1410	J	2300	560
7005-72-3	4-Chlorophenyl phenyl ether	2320		2300	280
106-44-5	4-Methylphenol	2040	J	4400	270
100-01-6	4-Nitroaniline	2400	J	4400	1200
100-02-7	4-Nitrophenol	7220		4400	1600
83-32-9	Acenaphthene	2510		2300	330
208-96-8	Acenaphthylene	2660		2300	290
98-86-2	Acetophenone	2160	J	2300	310
120-12-7	Anthracene	3360		2300	560
1912-24-9	Atrazine	4950		2300	790
100-52-7	Benzaldehyde	2830		2300	1800
56-55-3	Benzo(a)anthracene	6690		2300	230
50-32-8	Benzo(a)pyrene	5740		2300	330
205-99-2	Benzo(b)fluoranthene	7300		2300	360

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MSD | Lab Sample ID: 480-127239-3 MSD

Matrix: Solid | Lab File ID: X207624.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.45(g) | Date Analyzed: 11/16/2017 16:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	4050		2300	240
207-08-9	Benzo(k)fluoranthene	4850		2300	290
111-91-1	Bis(2-chloroethoxy)methane	2020	J	2300	480
111-44-4	Bis(2-chloroethyl)ether	1830	J	2300	290
117-81-7	Bis(2-ethylhexyl) phthalate	3110		2300	770
85-68-7	Butyl benzyl phthalate	2860		2300	370
105-60-2	Caprolactam	4120		2300	680
86-74-8	Carbazole	2610		2300	270
218-01-9	Chrysene	5870		2300	510
84-74-2	Di-n-butyl phthalate	2890		2300	390
117-84-0	Di-n-octyl phthalate	2610		2300	270
53-70-3	Dibenz(a,h)anthracene	3040		2300	400
132-64-9	Dibenzofuran	2580		2300	270
84-66-2	Diethyl phthalate	2950		2300	290
131-11-3	Dimethyl phthalate	2400		2300	270
206-44-0	Fluoranthene	10600		2300	240
86-73-7	Fluorene	2790		2300	270
118-74-1	Hexachlorobenzene	1830	J	2300	310
87-68-3	Hexachlorobutadiene	2150	J	2300	330
77-47-4	Hexachlorocyclopentadiene	1870	J	2300	310
67-72-1	Hexachloroethane	1900	J	2300	290
193-39-5	Indeno(1,2,3-cd)pyrene	4460		2300	280
78-59-1	Isophorone	2460		2300	480
621-64-7	N-Nitrosodi-n-propylamine	1870	J	2300	390
86-30-6	N-Nitrosodiphenylamine	2020	J	2300	1800
91-20-3	Naphthalene	2050	J	2300	290
98-95-3	Nitrobenzene	2110	J	2300	250
87-86-5	Pentachlorophenol	4660		4400	2300
85-01-8	Phenanthrene	6480		2300	330
108-95-2	Phenol	1830	J	2300	350
129-00-0	Pyrene	9190		2300	270

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MSD | Lab Sample ID: 480-127239-3 MSD

Matrix: Solid | Lab File ID: X207624.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.45(g) | Date Analyzed: 11/16/2017 16:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	139	X	54-120
321-60-8	2-Fluorobiphenyl	88		60-120
367-12-4	2-Fluorophenol	74		52-120
4165-60-0	Nitrobenzene-d5	106		53-120
1718-51-0	p-Terphenyl-d14	65		65-121
4165-62-2	Phenol-d5	83		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207624.D
Lims ID: 480-127239-A-3-H MSD
Client ID: NS-SOUTH-SOIL 0-2"
Sample Type: MSD
Inject. Date: 16-Nov-2017 16:53:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0067330-013
Operator ID: dr Instrument ID: HP5973X

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Nov-2017 11:33:08 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: richardsd Date: 16-Nov-2017 18:51:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.036	5.030	0.006	96	142694	4.00	40.0	
* 2 Naphthalene-d8	136	6.617	6.606	0.011	99	475589	4.00	40.0	
* 3 Acenaphthene-d10	164	8.684	8.674	0.010	94	242839	4.00	40.0	
* 4 Phenanthrene-d10	188	10.351	10.346	0.005	99	512454	4.00	40.0	
* 5 Chrysene-d12	240	12.771	12.766	0.005	99	522003	4.00	40.0	
* 6 Perylene-d12	264	13.893	13.888	0.005	99	470695	4.00	40.0	
$ 7 2-Fluorophenol	112	3.198	3.161	0.037	92	13655	4.00	2.96	
$ 8 Phenol-d5	99	4.635	4.608	0.027	91	18430	4.00	3.31	
$ 9 Nitrobenzene-d5	82	5.752	5.730	0.022	91	20542	4.00	4.24	
$ 10 2-Fluorobiphenyl	172	7.926	7.905	0.022	99	35448	4.00	3.53	
$ 11 2,4,6-Tribromophenol	330	9.603	9.593	0.010	90	5598	4.00	5.56	
$ 12 p-Terphenyl-d14	244	11.884	11.879	0.005	98	41627	4.00	2.59	
199 2-Chlorotoluene	91		-0.700					ND	
213 Chlorobenzotrifluoride N.O	1		-0.700					ND	
191 N-Methylaniline	1		-0.700					ND	
204 Chlorotoluene N.O.S	1		-0.700					ND	
211 5-Ethyl-5-phenyl barbituri	1		-0.700					ND	
205 Lidocaine	1		-0.700					ND	
15 1,4-Dioxane	88		1.125				ND	ND	
16 N-Nitrosodimethylamine	42	1.366	1.344	0.022	89	9346	5.00	4.67	
17 Pyridine	52	1.403	1.376	0.027	86	12148	10.0	2.90	
18 2-Picoline	93		2.382					ND	
19 N-Nitrosomethylethylamine	88		2.558					ND	
20 Methyl methanesulfonate	80		3.098					ND	
21 Acrylamide	44		3.146					ND	
24 N-Nitrosodiethylamine	102		3.712					ND	
22 4-Chloropyridine	78		3.828					ND	
23 3-Chloropyridine	78		3.908					ND	
25 Ethyl methanesulfonate	79		4.187					ND	
26 2-Chloropyridine	78		4.400					ND	
27 Benzaldehyde	77	4.448	4.421	0.027	87	21124	10.0	6.38	
29 Aniline	93	4.608	4.587	0.021	96	13975	5.00	1.94	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
28 Phenol	94	4.651	4.624	0.027	83	25633	5.00	4.13	
31 Bis(2-chloroethyl)ether	93	4.720	4.699	0.021	91	18664	5.00	4.12	
32 2-Chlorophenol	128	4.769	4.742	0.027	94	17581	5.00	3.91	
30 Pentachloroethane	167		4.812					ND	
35 n-Decane	57	4.881	4.865	0.016	88	12808	5.00	2.72	
36 1,3-Dichlorobenzene	146	4.956	4.934	0.022	96	20784	5.00	3.90	
37 1,4-Dichlorobenzene	146	5.052	5.036	0.016	15	22034	5.00	4.00	
34 n,n'-Dimethylaniline	120		5.162					ND	
39 1,2-Dichlorobenzene	146	5.249	5.228	0.021	90	19177	5.00	2.35	
38 Benzyl alcohol	108	5.249	5.233	0.016	91	11880	5.00	3.77	
33 p-Fluoroaniline	111	5.249	5.259	-0.010	64	9672		NC	
229 Indene	115	5.362	5.346	0.016	85	145065	20.0	18.2	
42 2,2'-oxybis[1-chloropropan	45	5.431	5.410	0.021	65	16011	5.00	1.70	
40 2-Methylphenol	108	5.431	5.410	0.021	90	18499	5.00	3.53	
45 Acetophenone	105	5.575	5.549	0.026	91	28789	5.00	4.86	
47 N-Nitrosodi-n-propylamine	70	5.602	5.575	0.027	86	12922	5.00	4.22	
46 4-Methylphenol	108	5.650	5.618	0.032	95	19179	5.00	4.59	
49 4-Methylbenzenamine	106		5.629					ND	
50 Hexachloroethane	117	5.671	5.645	0.026	91	8616	5.00	4.29	
43 N-Nitrosopyrrolidine	100		5.683					ND	
44 N-Nitrosomorpholine	56		5.742					ND	
52 Nitrobenzene	77	5.773	5.752	0.021	91	22610	5.00	4.74	
48 2-Toluidine	106		5.763					ND	
51 o-Anisidine	108		5.906					ND	
53 2,6-Dichloropyridine	112		5.996					ND	
56 Isophorone	82	6.083	6.056	0.027	96	40741	5.00	5.55	
212 2,4-Dichlorotoluene	125		6.093					ND	
54 N-Nitrosopiperidine	114		6.100					ND	
57 2-Chloroaniline	127		6.126					ND	
58 2-Nitrophenol	139	6.174	6.147	0.027	86	10708	5.00	5.52	
206 1,3,5-Trichlorobenzene	180		6.211					ND	
59 2,4-Dimethylphenol	107	6.286	6.259	0.027	94	22135	5.00	4.70	
61 Tetraethyl lead	237		6.297					ND	
62 Bis(2-chloroethoxy)methane	93	6.382	6.361	0.021	93	23920	5.00	4.55	
65 2,4-Dichlorophenol	162	6.483	6.457	0.026	94	15810	5.00	4.37	
60 o,o',o''-Triethylphosphoro	198		6.490					ND	
64 Benzoic acid	105	6.521	6.505	0.016	1	4327	20.0	15.1	M
67 1,2,4-Trichlorobenzene	180	6.564	6.542	0.022	96	19450	5.00	4.30	
69 Naphthalene	128	6.638	6.617	0.021	99	57828	5.00	4.61	
63 alpha,alpha-Dimethyl phene	58		6.655					ND	
299 1,3-Dibromobenzene TIC	236		6.676					ND	
41 Alpha-Terpineol	59		6.681					ND	
184 4-Chlorophenol	128		6.708					ND	
66 5-Methyl-o-Anisidine	122		6.716					ND	
71 4-Chloroaniline	127	6.740	6.719	0.021	79	16381	5.00	3.17	
70 2,6-Dichlorophenol	162	6.745	6.724	0.021	87	17085	5.00	4.62	
300 1,4-Dibromobenzene TIC	236		6.724					ND	
73 Hexachlorobutadiene	225	6.825	6.804	0.021	92	14964	5.00	4.83	
72 Hexachloropropene	213		6.896					ND	
78 Caprolactam	113	7.124	7.141	-0.017	87	11321	10.0	9.27	
74 Quinoline	129		7.179					ND	
77 p-Phenylene diamine	108		7.297					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
76 N-Nitrosodi-n-butylamine	84		7.302					ND	
79 4-Chloro-3-methylphenol	107	7.370	7.349	0.021	94	19416	5.00	5.56	
82 2-Methylnaphthalene	142	7.477	7.450	0.027	96	43512	5.00	5.01	
267 2,4,5-Trichlorotoluene	159		7.466					ND	
80 Safrole, Total	162		7.532					ND	
55 Phthalic anhydride	104		7.552					ND	
83 1-Methylnaphthalene	142	7.584	7.563	0.021	96	38307	5.00	4.83	
84 Hexachlorocyclopentadiene	237	7.680	7.653	0.027	72	9872	5.00	4.21	
85 1,2,4,5-Tetrachlorobenzene	216	7.680	7.659	0.021	96	20324	5.00	4.19	
269 2,3-Dichlorobenzenamine	161		7.803					ND	
86 2,4,6-Trichlorophenol	196	7.835	7.814	0.021	93	12287	5.00	5.46	
87 2,4,5-Trichlorophenol	196	7.883	7.856	0.027	92	13703	5.00	5.53	
292 Isosafrole Peak 1	162		7.873					ND	
90 1,1'-Biphenyl	154	8.033	8.017	0.016	96	47681	5.00	4.70	
91 2-Chloronaphthalene	162	8.038	8.017	0.021	95	38554	5.00	4.80	
270 1,2,3,4 -Tetrachlorobenzen	216		8.033					ND	
89 Isosafrole	162		8.141					ND	
294 Isosafrole Peak 2	162		8.141					ND	
93 2-Nitroaniline	65	8.182	8.166	0.016	89	9367	5.00	5.26	
92 1-Chloronaphthalene	162		8.194					ND	
68 Dicyclohexylamine	138		8.279					ND	
94 1,4-Naphthoquinone	158		8.386					ND	
96 Dimethyl phthalate	163	8.423	8.412	0.011	97	47575	5.00	5.40	
97 1,3-Dinitrobenzene	168	8.439	8.423	0.016	72	7299	5.00	5.21	
99 2,6-Dinitrotoluene	165	8.476	8.460	0.016	84	10940	5.00	5.85	
95 1,4-Dinitrobenzene	168		8.477					ND	
100 Acenaphthylene	152	8.513	8.497	0.016	99	68171	5.00	5.98	
101 3-Nitroaniline	138	8.663	8.652	0.011	66	8032	5.00	4.60	
102 Acenaphthene	153	8.722	8.706	0.016	98	42958	5.00	5.66	
103 2,4-Dinitrophenol	184	8.802	8.775	0.027	1	373	10.0	9.17	
107 Dibenzofuran	168	8.925	8.909	0.016	97	64236	5.00	5.80	
104 4-Nitrophenol	109	8.925	8.909	0.016	43	14005	10.0	16.3	
106 2,4-Dinitrotoluene	165	8.941	8.930	0.011	93	13469	5.00	5.66	
105 Pentachlorobenzene	250		9.022					ND	
110 2,3,4,6-Tetrachlorophenol	232	9.090	9.074	0.016	91	8153	5.00	4.95	
108 1-Naphthylamine	143		9.156					ND	
109 2,3,5,6-Tetrachlorophenol	232		9.177					ND	
112 Diethyl phthalate	149	9.245	9.245	0.000	97	57384	5.00	6.64	
111 2-Naphthylamine	143		9.246					ND	
138 Hexadecane	57	9.299	9.288	0.011	87	18433	5.00	3.88	
115 Fluorene	166	9.315	9.304	0.011	99	56183	5.00	6.27	
116 4-Chlorophenyl phenyl ethe	204	9.342	9.336	0.006	96	26315	5.00	5.21	
118 4-Nitroaniline	138	9.363	9.363	0.000	97	9283	5.00	5.41	
119 4,6-Dinitro-2-methylphenol	198	9.411	9.406	0.005	92	9231	10.0	10.7	
114 Thionazin	97		9.465					ND	
120 N-Nitrosodiphenylamine	169	9.486	9.480	0.006	93	30880	5.00	4.55	
121 Diphenylamine	169	9.486	9.480	0.006	94	30880	4.28	3.89	
117 N-Nitro-o-toluidine	152		9.492					ND	
122 Azobenzene	77	9.523	9.513	0.010	94	50352	5.00	5.75	
123 1,2-Diphenylhydrazine	77	9.523	9.513	0.010	98	50352	5.00	5.75	
81 Tributyl phosphate	99		9.523					ND	
124 Sulfotepp	322		9.845					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
130 4-Bromophenyl phenyl ether	248	9.897	9.892	0.005	95	16004	5.00	5.08	
131 Hexachlorobenzene	284	9.951	9.945	0.006	88	13043	5.00	4.12	
125 1,3,5-Trinitrobenzene	213		9.957					ND	
295 Diallate Peak 1	43		9.962					ND	
127 Diallate	43		9.962					ND	
128 Phorate	75		9.968					ND	
129 Phenacetin	108		10.010					ND	
297 Diallate Peak 2	43		10.053					ND	
88 Simazine	201		10.079					ND	
133 Atrazine	200	10.116	10.116	0.000	94	28700	10.0	11.1	
132 Dimethoate	87		10.149					ND	
134 Pentachlorophenol	266	10.180	10.170	0.010	90	7369	10.0	10.5	
135 4-Aminobiphenyl	169		10.315					ND	
136 Pentachloronitrobenzene	237		10.320					ND	
113 n-Octadecane	57	10.335	10.330	0.005	93	20999	5.00	4.75	
141 Phenanthrene	178	10.373	10.367	0.006	99	191562	5.00	14.6	
137 Pronamide	173		10.411					ND	
142 Anthracene	178	10.426	10.421	0.005	99	104531	5.00	7.57	
140 Disulfoton	88		10.523					ND	
139 Dinoseb	211		10.523					ND	
143 Carbazole	167	10.608	10.602	0.006	99	73027	5.00	5.88	
98 Alachlor	160		10.779					ND	
144 Methyl parathion	109		10.892					ND	
271 2-Methylanthracene	192	10.939	10.966	-0.027	96	9504			NC
145 Di-n-butyl phthalate	149	11.003	10.992	0.011	99	86802	5.00	6.50	
148 Anthraquinone	180	11.169	11.169	0.000	62	3193		2.22	
147 4-Nitroquinoline-1-oxide	190		11.271					ND	
146 Ethyl Parathion	97		11.271					ND	
149 Methapyrilene	58		11.367					ND	
151 Isodrin	193		11.506					ND	
152 Fluoranthene	202	11.521	11.516	0.005	99	364614	5.00	23.8	
153 1-Hydroxyanthraquinone	224		11.564					ND	
150 Octachlorostyrene	308		11.564					ND	
154 Benzidine	184	11.671	11.660	0.011	97	13300	10.0	2.23	
155 Pyrene	202	11.719	11.714	0.005	99	304712	5.00	20.7	
157 1,4-Dihydroxyanthraquinone	240		11.975					ND	
293 Aramite Peak 1	185		12.008					ND	
296 Aramite Peak 2	185		12.072					ND	
156 Aramite, Total	185		12.072					ND	
158 p-Dimethylamino azobenzene	120		12.131					ND	
159 Chlorobenzilate	139		12.179					ND	
160 Famphur	218		12.269					ND	
162 Butyl benzyl phthalate	149	12.328	12.323	0.005	97	36741	5.00	6.44	
126 Kepone	272		12.323					ND	
163 9-Octadecenamide	72		12.349					ND	
161 3,3'-Dimethylbenzidine	212		12.425					ND	
164 2-Acetylaminofluorene	181		12.639					ND	
166 3,3'-Dichlorobenzidine	252	12.755	12.745	0.010	86	49707	10.0	9.81	
167 Benzo[a]anthracene	228	12.761	12.750	0.011	96	216513	5.00	15.1	
169 Chrysene	228	12.787	12.782	0.005	98	180602	5.00	13.2	
172 Bis(2-ethylhexyl) phthalat	149	12.825	12.814	0.011	95	56007	5.00	6.99	
165 4,4'-Methylene bis(2-chlor	231		12.874					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
170 6-Methylchrysene	242		13.280					ND	
168 Di-n-octyl phthalate	149	13.332	13.322	0.010	99	82201	5.00	5.88	
174 Benzo[b]fluoranthene	252	13.610	13.599	0.011	99	222454	5.00	16.4	
175 Benzo[k]fluoranthene	252	13.631	13.621	0.010	95	167012	5.00	10.9	
173 7,12-Dimethylbenz(a)anthra	256		13.729					ND	
268 Benzo[e]pyrene	252	13.850	13.840	0.010	96	175452		NC	
177 Benzo[a]pyrene	252	13.850	13.840	0.010	99	175452	5.00	12.9	
178 3-Methylcholanthrene	252		14.220					ND	
176 Hexachlorophene	196		14.501					ND	
179 Dibenz[a,h]acridine	279		14.621					ND	
180 Indeno[1,2,3-cd]pyrene	276	14.646	14.636	0.010	98	161643	5.00	10.0	
181 Dibenz(a,h)anthracene	278	14.657	14.646	0.011	92	94468	5.00	6.84	
182 Benzo[g,h,i]perylene	276	14.849	14.839	0.010	97	126186	5.00	9.12	
183 Dibenzo[a,e]pyrene	302		19.913					ND	
217 1-Bromopropane	1		-0.700					ND	
215 1-Methylcyclopentanol	1		-0.700					ND	
275 1,2,3-Trimethylbenzene	105		-0.700					ND	
225 2,4-Toluene diamine	1		-0.700					ND	
278 Photomirex TIC	1		-0.700					ND	
223 2-Chlorobenzotrifluoride	1		-0.700					ND	
221 CBF-500	1		-0.700					ND	
195 Phenylacetic Acid	1		-0.700					ND	
287 2,6-Dichlorotoluene TIC	1		-0.700					ND	
219 alpha,alpha-Dimethyl phene	1		-0.700					ND	
208 n,n'-Dimethylacetamide	1		-0.700					ND	
216 4-Chlorobenzotrifluoride	1		-0.700					ND	
291 3-Chlorobenzotrifluoride T	1		-0.700					ND	
185 Phenylmercaptan	110		-0.700					ND	
200 Dibenzo[a,h]pyrene	1		-0.700					ND	
188 CAG-800	1		-0.700					ND	
272 Benzophenone	1		-0.700					ND	
194 CN-500	1		-0.700					ND	
224 CBF-400	1		-0.700					ND	
209 7H-Dibenzo[c,g]carbazole	1		-0.700					ND	
298 2-Aminopyridine TIC	1		-0.700					ND	
274 Phenyl ether	1		-0.700					ND	
193 Dibenz(a,i)pyrene	1		-0.700					ND	
186 Dibenz[a,j]acridine	279		-0.700					ND	
201 2,3-Dichlorophenol	1		-0.700					ND	
273 4-tert-Octylphenol	1		-0.700					ND	
202 4-Chlorotoluene	91		-0.700					ND	
289 2-Chlorobenzotrifluoride T	1		-0.700					ND	
277 1,4-Dioxane TIC	1		-0.700					ND	
196 CU-600	1		-0.700					ND	
210 3-Chlorotoluene	1		-0.700					ND	
207 3-Chlorobenzotrifluoride	1		-0.700					ND	
290 2,4-Dichlorotoluene TIC	1		-0.700					ND	
190 Benzeneacetonitrile	1		-0.700					ND	
192 NVF-400	1		-0.700					ND	
203 Pendimethalin	1		-0.700					ND	
276 4-Chloro-3-nitro-alpha,alp	1		-0.700					ND	
230 Pentachlorophenol_T	266	10.180	10.170	0.010	89	7369		NR	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
233 4,4'-DDE	246		11.662					ND	
232 Benzidine_T	184	11.671	11.666	0.005	97	13300		NR	
234 4,4'-DDD	235		12.141					ND	
235 4,4'-DDT	235		12.392					ND	
S 236 3 & 4 Methylphenol	108				0			4.59	
S 239 EPH Adjustment 1	1		-0.700					ND	
S 238 3-Methylphenol	1				0		5.00	4.59	
S 237 Total Cresols	1				0			8.12	
T 306 Fluorobenzene TIC	96		0.976					ND	
T 311 1-Bromo-2-chloroethane TIC	63		1.328					ND	
T 301 Ethylene Dibromide TIC	107		2.194					ND	
T 288 4-Chlorobenzotrifluoride T	180		2.942					ND	
T 308 1-Bromo-3-fluorobenzene TI	95		3.855					ND	
T 304 4-Bromofluorobenzene TIC	174		4.026					ND	
T 305 1,2-dichloro-4-(trifluorom	214		4.865					ND	
T 307 2-Bromopyridine TIC	78		5.169					ND	
T 245 2,4-Xylidine TIC	121		5.300					ND	
T 242 5-Methyl-o-Anisidine TIC	122		5.300					ND	
T 240 o-Anisidine TIC	108		5.300					ND	
T 243 Tris(2,3-dibromopropyl)pho	201		5.300					ND	
T 241 1,3-phenylenediamine TIC	108		5.300					ND	
T 244 4,4'-Methylene bis(2-chlor	231		5.300					ND	
T 309 1-Bromo-4-ethylbenzene TIC	169		6.291					ND	
T 302 3-Nitro-4-Chlorobenzotrifl	179		6.382					ND	
T 310 3-Amino-4-Chlorobenzotrifl	195		6.414					ND	
T 248 Tetramethyl lead TIC	253		7.300					ND	
T 250 Pendimethalin (TIC)	252		7.300					ND	
T 246 Benefin (TIC)	292		7.300					ND	
T 247 Benzeneacetic acid (TIC)	91		7.300					ND	
T 251 Prometryn (TIC)	241		7.300					ND	
T 303 3'-Bromoacetophenone TIC	183		7.643					ND	
T 252 1-Methylnaphthalene (TIC)	142	7.584	7.778	-0.189	90	38307		6.31	
T 249 trans Azobenzene (TIC)	77	9.523	9.841	-0.312	93	50352		8.29	
T 253 Hexamethyldisiloxane TIC	147		2.300					ND	
T 254 2,3,7,8-TCDD	322		7.300					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard
NC - Not Calibrated
ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

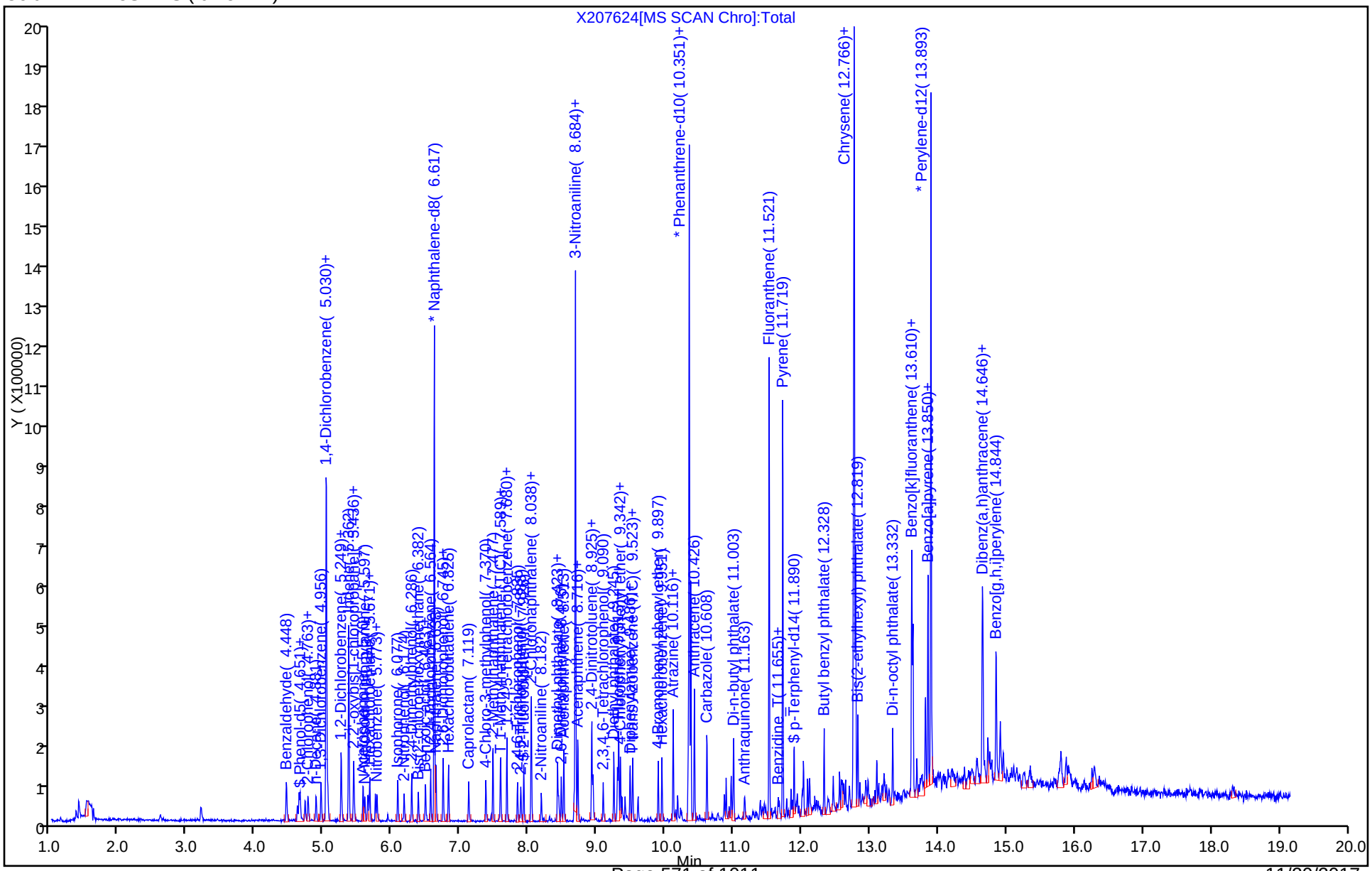
Report Date: 20-Nov-2017 11:33:33 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207624.D

Injection Date:	16-Nov-2017 16:53:30	Instrument ID:	HP5973X	Operator ID:	dr
Lims ID:	480-127239-A-3-H MSD			Worklist Smp#:	13
Client ID:	NS-SOUTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	13
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MSD | Lab Sample ID: 480-127239-9 MSD

Matrix: Solid | Lab File ID: X207626.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.48(g) | Date Analyzed: 11/16/2017 17:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1810	J	2100	300
108-60-1	bis (2-chloroisopropyl) ether	ND		2100	410
95-95-4	2,4,5-Trichlorophenol	2110		2100	560
88-06-2	2,4,6-Trichlorophenol	2010	J	2100	410
120-83-2	2,4-Dichlorophenol	1850	J	2100	220
105-67-9	2,4-Dimethylphenol	1820	J	2100	500
51-28-5	2,4-Dinitrophenol	ND		20000	9500
121-14-2	2,4-Dinitrotoluene	1930	J	2100	420
606-20-2	2,6-Dinitrotoluene	2160		2100	240
91-58-7	2-Chloronaphthalene	1880	J	2100	340
95-57-8	2-Chlorophenol	1400	J	2100	380
91-57-6	2-Methylnaphthalene	1730	J	2100	410
95-48-7	2-Methylphenol	1260	J	2100	240
88-74-4	2-Nitroaniline	1870	J	4000	300
88-75-5	2-Nitrophenol	2010	J	2100	580
91-94-1	3,3'-Dichlorobenzidine	3770	J	4000	2400
99-09-2	3-Nitroaniline	1870	J	4000	570
534-52-1	4,6-Dinitro-2-methylphenol	4320		4000	2100
101-55-3	4-Bromophenyl phenyl ether	1960	J	2100	290
59-50-7	4-Chloro-3-methylphenol	1980	J	2100	510
106-47-8	4-Chloroaniline	1150	J	2100	510
7005-72-3	4-Chlorophenyl phenyl ether	1900	J	2100	250
106-44-5	4-Methylphenol	1590	J	4000	240
100-01-6	4-Nitroaniline	1900	J	4000	1100
100-02-7	4-Nitrophenol	6020		4000	1400
83-32-9	Acenaphthene	2140		2100	300
208-96-8	Acenaphthylene	2020	J	2100	270
98-86-2	Acetophenone	1850	J	2100	280
120-12-7	Anthracene	2380		2100	510
1912-24-9	Atrazine	4480		2100	710
100-52-7	Benzaldehyde	2500		2100	1600
56-55-3	Benzo(a)anthracene	4070		2100	210
50-32-8	Benzo(a)pyrene	3380		2100	300
205-99-2	Benzo(b)fluoranthene	4390		2100	330

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MSD | Lab Sample ID: 480-127239-9 MSD

Matrix: Solid | Lab File ID: X207626.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.48(g) | Date Analyzed: 11/16/2017 17:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	3030		2100	220
207-08-9	Benzo(k)fluoranthene	2920		2100	270
111-91-1	Bis(2-chloroethoxy)methane	1640	J	2100	440
111-44-4	Bis(2-chloroethyl)ether	1490	J	2100	270
117-81-7	Bis(2-ethylhexyl) phthalate	2780		2100	700
85-68-7	Butyl benzyl phthalate	2910		2100	340
105-60-2	Caprolactam	3880		2100	620
86-74-8	Carbazole	1980	J	2100	240
218-01-9	Chrysene	3760		2100	460
84-74-2	Di-n-butyl phthalate	2420		2100	350
117-84-0	Di-n-octyl phthalate	2490		2100	240
53-70-3	Dibenz(a,h)anthracene	2220		2100	360
132-64-9	Dibenzofuran	2060	J	2100	240
84-66-2	Diethyl phthalate	2320		2100	270
131-11-3	Dimethyl phthalate	2130		2100	240
206-44-0	Fluoranthene	5240		2100	220
86-73-7	Fluorene	2040	J	2100	240
118-74-1	Hexachlorobenzene	1940	J	2100	280
87-68-3	Hexachlorobutadiene	2060	J	2100	300
77-47-4	Hexachlorocyclopentadiene	1690	J	2100	280
67-72-1	Hexachloroethane	1640	J	2100	270
193-39-5	Indeno(1,2,3-cd)pyrene	3000		2100	250
78-59-1	Isophorone	2130		2100	440
621-64-7	N-Nitrosodi-n-propylamine	1610	J	2100	350
86-30-6	N-Nitrosodiphenylamine	1870	J	2100	1700
91-20-3	Naphthalene	1640	J	2100	270
98-95-3	Nitrobenzene	1920	J	2100	230
87-86-5	Pentachlorophenol	4000		4000	2100
85-01-8	Phenanthrene	3300		2100	300
108-95-2	Phenol	1330	J	2100	310
129-00-0	Pyrene	5310		2100	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MSD | Lab Sample ID: 480-127239-9 MSD

Matrix: Solid | Lab File ID: X207626.D

Analysis Method: 8270D | Date Collected: 11/07/2017 14:30

Extract. Method: 3550C | Date Extracted: 11/15/2017 14:07

Sample wt/vol: 30.48(g) | Date Analyzed: 11/16/2017 17:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 387796 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	134	X	54-120
321-60-8	2-Fluorobiphenyl	88		60-120
367-12-4	2-Fluorophenol	57		52-120
4165-60-0	Nitrobenzene-d5	92		53-120
1718-51-0	p-Terphenyl-d14	72		65-121
4165-62-2	Phenol-d5	75		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207626.D
Lims ID: 480-127239-A-9-H MSD
Client ID: NS-SOUTH-SOIL 2-12"
Sample Type: MSD
Inject. Date: 16-Nov-2017 17:45:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0067330-015
Operator ID: dr Instrument ID: HP5973X

Method: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 20-Nov-2017 11:33:08 Calib Date: 19-Oct-2017 14:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973X\20171019-66532.b\X20660.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: richardsd Date: 16-Nov-2017 18:56:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.036	5.030	0.006	96	170529	4.00	40.0	
* 2 Naphthalene-d8	136	6.617	6.606	0.011	99	526294	4.00	40.0	
* 3 Acenaphthene-d10	164	8.679	8.674	0.005	96	272182	4.00	40.0	
* 4 Phenanthrene-d10	188	10.351	10.346	0.005	99	555177	4.00	40.0	
* 5 Chrysene-d12	240	12.771	12.766	0.005	99	536206	4.00	40.0	
* 6 Perylene-d12	264	13.893	13.888	0.005	99	496695	4.00	40.0	
$ 7 2-Fluorophenol	112	3.193	3.161	0.032	92	12456	4.00	2.26	
$ 8 Phenol-d5	99	4.635	4.608	0.027	92	20098	4.00	3.02	
$ 9 Nitrobenzene-d5	82	5.757	5.730	0.027	95	19743	4.00	3.68	
$ 10 2-Fluorobiphenyl	172	7.926	7.905	0.022	98	39567	4.00	3.51	
$ 11 2,4,6-Tribromophenol	330	9.598	9.593	0.005	93	5732	4.00	5.36	
$ 12 p-Terphenyl-d14	244	11.890	11.879	0.011	99	45793	4.00	2.89	
199 2-Chlorotoluene	91		-0.700					ND	
213 Chlorobenzotrifluoride N.O	1		-0.700					ND	
191 N-Methylaniline	1		-0.700					ND	
204 Chlorotoluene N.O.S	1		-0.700					ND	
211 5-Ethyl-5-phenyl barbituri	1		-0.700					ND	
205 Lidocaine	1		-0.700					ND	
15 1,4-Dioxane	88	1.131	1.125	0.006	24	3785	5.00	1.48	
16 N-Nitrosodimethylamine	42	1.360	1.344	0.016	92	7770	5.00	3.25	
17 Pyridine	52	1.398	1.376	0.022	84	13826	10.0	2.71	
18 2-Picoline	93		2.382					ND	
19 N-Nitrosomethylethylamine	88		2.558					ND	
20 Methyl methanesulfonate	80		3.098					ND	
21 Acrylamide	44		3.146					ND	
24 N-Nitrosodiethylamine	102		3.712					ND	
22 4-Chloropyridine	78		3.828					ND	
23 3-Chloropyridine	78		3.908					ND	
25 Ethyl methanesulfonate	79		4.187					ND	
26 2-Chloropyridine	78		4.400					ND	
27 Benzaldehyde	77	4.448	4.421	0.027	83	24550	10.0	6.20	
29 Aniline	93	4.608	4.587	0.021	94	13651	5.00	1.59	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
28 Phenol	94	4.656	4.624	0.032	78	24358	5.00	3.28	
31 Bis(2-chloroethyl)ether	93	4.726	4.699	0.027	90	19992	5.00	3.70	
32 2-Chlorophenol	128	4.769	4.742	0.027	96	18726	5.00	3.48	
30 Pentachloroethane	167		4.812					ND	
35 n-Decane	57	4.886	4.865	0.021	88	12602	5.00	2.24	
36 1,3-Dichlorobenzene	146	4.961	4.934	0.027	95	21686	5.00	3.41	
37 1,4-Dichlorobenzene	146	5.057	5.036	0.021	83	24336	5.00	3.70	
34 n,n'-Dimethylaniline	120		5.162					ND	
39 1,2-Dichlorobenzene	146	5.255	5.228	0.027	94	22608	5.00	2.29	
38 Benzyl alcohol	108	5.255	5.233	0.022	89	13191	5.00	3.47	
33 p-Fluoroaniline	111	5.249	5.259	-0.010	57	9827		NC	
229 Indene	115	5.367	5.346	0.021	85	147613	20.0	17.1	
42 2,2'-oxybis[1-chloropropan	45	5.436	5.410	0.026	67	14802	5.00	0.8802	
40 2-Methylphenol	108	5.436	5.410	0.026	95	20190	5.00	3.11	
45 Acetophenone	105	5.575	5.549	0.026	89	32508	5.00	4.59	
47 N-Nitrosodi-n-propylamine	70	5.597	5.575	0.022	83	14648	5.00	4.00	
46 4-Methylphenol	108	5.645	5.618	0.027	96	19710	5.00	3.95	
49 4-Methylbenzenamine	106		5.629					ND	
50 Hexachloroethane	117	5.671	5.645	0.026	93	9779	5.00	4.07	
43 N-Nitrosopyrrolidine	100		5.683					ND	
44 N-Nitrosomorpholine	56		5.742					ND	
52 Nitrobenzene	77	5.778	5.752	0.026	88	25117	5.00	4.76	
48 2-Toluidine	106		5.763					ND	
51 o-Anisidine	108		5.906					ND	
53 2,6-Dichloropyridine	112		5.996					ND	
56 Isophorone	82	6.083	6.056	0.027	96	42578	5.00	5.27	
212 2,4-Dichlorotoluene	125		6.093					ND	
54 N-Nitrosopiperidine	114		6.100					ND	
57 2-Chloroaniline	127		6.126					ND	
58 2-Nitrophenol	139	6.174	6.147	0.027	93	10362	5.00	4.99	
206 1,3,5-Trichlorobenzene	180		6.211					ND	
59 2,4-Dimethylphenol	107	6.286	6.259	0.027	93	23440	5.00	4.50	
61 Tetraethyl lead	237		6.297					ND	
62 Bis(2-chloroethoxy)methane	93	6.382	6.361	0.021	93	23659	5.00	4.07	
65 2,4-Dichlorophenol	162	6.489	6.457	0.032	93	18396	5.00	4.58	
60 o,o',o''-Triethylphosphoro	198		6.490					ND	
64 Benzoic acid	105	6.516	6.505	0.011	1	8262	20.0	16.2	M
67 1,2,4-Trichlorobenzene	180	6.564	6.542	0.022	93	23638	5.00	4.72	
69 Naphthalene	128	6.644	6.617	0.027	99	56441	5.00	4.07	
63 alpha,alpha-Dimethyl phene	58		6.655					ND	
299 1,3-Dibromobenzene TIC	236		6.676					ND	
41 Alpha-Terpineol	59		6.681					ND	
184 4-Chlorophenol	128	6.745	6.708	0.037	53	2248		NC	
66 5-Methyl-o-Anisidine	122		6.716					ND	
71 4-Chloroaniline	127	6.745	6.719	0.026	76	16346	5.00	2.85	
70 2,6-Dichlorophenol	162	6.751	6.724	0.027	94	18014	5.00	4.41	
300 1,4-Dibromobenzene TIC	236		6.724					ND	
73 Hexachlorobutadiene	225	6.825	6.804	0.021	93	17474	5.00	5.10	
72 Hexachloropropene	213		6.896					ND	
78 Caprolactam	113	7.125	7.141	-0.016	82	13028	10.0	9.62	
74 Quinoline	129		7.179					ND	
77 p-Phenylene diamine	108		7.297					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
76 N-Nitrosodi-n-butylamine	84		7.302					ND	
79 4-Chloro-3-methylphenol	107	7.370	7.349	0.021	93	18706	5.00	4.91	
82 2-Methylnaphthalene	142	7.477	7.450	0.027	96	41235	5.00	4.29	
267 2,4,5-Trichlorotoluene	159		7.466					ND	
80 Safrole, Total	162		7.532					ND	
55 Phthalic anhydride	104		7.552					ND	
83 1-Methylnaphthalene	142	7.589	7.563	0.026	97	39384	5.00	4.49	
84 Hexachlorocyclopentadiene	237	7.680	7.653	0.027	86	10971	5.00	4.19	
85 1,2,4,5-Tetrachlorobenzene	216	7.680	7.659	0.021	95	25280	5.00	4.65	
269 2,3-Dichlorobenzenamine	161		7.803					ND	
86 2,4,6-Trichlorophenol	196	7.835	7.814	0.021	93	12075	5.00	4.97	
87 2,4,5-Trichlorophenol	196	7.878	7.856	0.022	94	14253	5.00	5.23	
292 Isosafrole Peak 1	162		7.873					ND	
90 1,1'-Biphenyl	154	8.033	8.017	0.016	97	51033	5.00	4.48	
91 2-Chloronaphthalene	162	8.038	8.017	0.021	97	41963	5.00	4.66	
270 1,2,3,4 -Tetrachlorobenzen	216		8.033					ND	
89 Isosafrole	162		8.141					ND	
294 Isosafrole Peak 2	162		8.141					ND	
93 2-Nitroaniline	65	8.182	8.166	0.016	87	8928	5.00	4.64	
92 1-Chloronaphthalene	162		8.194					ND	
68 Dicyclohexylamine	138		8.279					ND	
94 1,4-Naphthoquinone	158		8.386					ND	
96 Dimethyl phthalate	163	8.423	8.412	0.011	96	52210	5.00	5.29	
97 1,3-Dinitrobenzene	168	8.433	8.423	0.010	27	7045	5.00	4.64	
99 2,6-Dinitrotoluene	165	8.476	8.460	0.016	84	11078	5.00	5.36	
95 1,4-Dinitrobenzene	168		8.477					ND	
100 Acenaphthylene	152	8.508	8.497	0.011	100	63841	5.00	5.00	
101 3-Nitroaniline	138	8.663	8.652	0.011	87	9099	5.00	4.64	
102 Acenaphthene	153	8.717	8.706	0.011	97	45227	5.00	5.31	
103 2,4-Dinitrophenol	184	8.802	8.775	0.027	4	1885	10.0	9.98	
107 Dibenzofuran	168	8.920	8.909	0.011	95	63386	5.00	5.11	
104 4-Nitrophenol	109	8.925	8.909	0.016	48	13610	10.0	14.9	
106 2,4-Dinitrotoluene	165	8.936	8.930	0.006	84	12407	5.00	4.79	
105 Pentachlorobenzene	250		9.022					ND	
110 2,3,4,6-Tetrachlorophenol	232	9.091	9.074	0.016	91	10915	5.00	5.53	
108 1-Naphthylamine	143		9.156					ND	
109 2,3,5,6-Tetrachlorophenol	232		9.177					ND	
112 Diethyl phthalate	149	9.245	9.245	0.000	98	55696	5.00	5.75	
111 2-Naphthylamine	143		9.246					ND	
138 Hexadecane	57	9.299	9.288	0.011	92	22123	5.00	4.16	
115 Fluorene	166	9.315	9.304	0.011	97	50831	5.00	5.06	
116 4-Chlorophenyl phenyl ethe	204	9.342	9.336	0.006	96	26611	5.00	4.70	
118 4-Nitroaniline	138	9.363	9.363	0.000	95	8680	5.00	4.71	
119 4,6-Dinitro-2-methylphenol	198	9.411	9.406	0.005	93	10002	10.0	10.7	
114 Thionazin	97		9.465					ND	
120 N-Nitrosodiphenylamine	169	9.480	9.480	0.000	96	33995	5.00	4.63	
121 Diphenylamine	169	9.480	9.480	0.000	96	33995	4.28	3.96	
117 N-Nitro-o-toluidine	152		9.492					ND	
122 Azobenzene	77	9.523	9.513	0.010	93	49633	5.00	5.23	
123 1,2-Diphenylhydrazine	77	9.523	9.513	0.010	96	49633	5.00	5.23	
81 Tributyl phosphate	99		9.523					ND	
124 Sulfotepp	322		9.845					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
130 4-Bromophenyl phenyl ether	248	9.897	9.892	0.005	92	16566	5.00	4.86	
131 Hexachlorobenzene	284	9.951	9.945	0.006	93	16476	5.00	4.80	
125 1,3,5-Trinitrobenzene	213		9.957					ND	
295 Diallate Peak 1	43		9.962					ND	
127 Diallate	43		9.962					ND	
128 Phorate	75		9.968					ND	
129 Phenacetin	108		10.010					ND	
297 Diallate Peak 2	43		10.053					ND	
88 Simazine	201		10.079					ND	
133 Atrazine	200	10.116	10.116	0.000	94	32025	10.0	11.1	
132 Dimethoate	87		10.149					ND	
134 Pentachlorophenol	266	10.180	10.170	0.010	85	6771	10.0	9.91	
135 4-Aminobiphenyl	169		10.315					ND	
136 Pentachloronitrobenzene	237		10.320					ND	
113 n-Octadecane	57	10.335	10.330	0.005	96	22249	5.00	4.65	
141 Phenanthrene	178	10.373	10.367	0.006	98	116208	5.00	8.17	
137 Pronamide	173		10.411					ND	
142 Anthracene	178	10.426	10.421	0.005	99	88225	5.00	5.90	
140 Disulfoton	88		10.523					ND	
139 Dinoseb	211		10.523					ND	
143 Carbazole	167	10.608	10.602	0.006	99	65823	5.00	4.89	
98 Alachlor	160		10.779					ND	
144 Methyl parathion	109		10.892					ND	
271 2-Methylanthracene	192	10.992	10.966	0.026	1	6273			NC
145 Di-n-butyl phthalate	149	11.003	10.992	0.011	99	86210	5.00	6.01	
148 Anthraquinone	180		11.169					ND	
147 4-Nitroquinoline-1-oxide	190		11.271					ND	
146 Ethyl Parathion	97		11.271					ND	
149 Methapyrilene	58		11.367					ND	
151 Isodrin	193		11.506					ND	
152 Fluoranthene	202	11.521	11.516	0.005	99	215559	5.00	13.0	
153 1-Hydroxyanthraquinone	224		11.564					ND	
150 Octachlorostyrene	308		11.564					ND	
154 Benzidine	184	11.671	11.660	0.011	97	17883	10.0	2.92	
155 Pyrene	202	11.724	11.714	0.010	98	199045	5.00	13.2	
157 1,4-Dihydroxyanthraquinone	240		11.975					ND	
293 Aramite Peak 1	185		12.008					ND	
296 Aramite Peak 2	185		12.072					ND	
156 Aramite, Total	185		12.072					ND	
158 p-Dimethylamino azobenzene	120		12.131					ND	
159 Chlorobenzilate	139		12.179					ND	
160 Famphur	218		12.269					ND	
162 Butyl benzyl phthalate	149	12.328	12.323	0.005	97	42499	5.00	7.21	
126 Kepone	272		12.323					ND	
163 9-Octadecenamide	72		12.349					ND	
161 3,3'-Dimethylbenzidine	212		12.425					ND	
164 2-Acetylaminofluorene	181		12.639					ND	
166 3,3'-Dichlorobenzidine	252	12.755	12.745	0.010	86	48500	10.0	9.34	
167 Benzo[a]anthracene	228	12.761	12.750	0.011	99	152274	5.00	10.1	
169 Chrysene	228	12.787	12.782	0.005	99	130928	5.00	9.33	
172 Bis(2-ethylhexyl) phthalat	149	12.819	12.814	0.005	97	56658	5.00	6.89	
165 4,4'-Methylene bis(2-chlor	231		12.874					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
170 6-Methylchrysene	242		13.280					ND	
168 Di-n-octyl phthalate	149	13.332	13.322	0.010	99	88580	5.00	6.17	
174 Benzo[b]fluoranthene	252	13.610	13.599	0.011	99	155229	5.00	10.9	
175 Benzo[k]fluoranthene	252	13.626	13.621	0.005	96	116672	5.00	7.23	
173 7,12-Dimethylbenz(a)anthra	256		13.729					ND	
268 Benzo[e]pyrene	252	13.850	13.840	0.010	96	121955		NC	
177 Benzo[a]pyrene	252	13.850	13.840	0.010	99	121955	5.00	8.37	
178 3-Methylcholanthrene	252		14.220					ND	
176 Hexachlorophene	196		14.501					ND	
179 Dibenz[a,h]acridine	279		14.621					ND	
180 Indeno[1,2,3-cd]pyrene	276	14.641	14.636	0.005	93	126216	5.00	7.45	
181 Dibenz(a,h)anthracene	278	14.652	14.646	0.006	85	80294	5.00	5.49	
182 Benzo[g,h,i]perylene	276	14.844	14.839	0.005	99	109674	5.00	7.51	
183 Dibenzo[a,e]pyrene	302		19.913					ND	
217 1-Bromopropane	1		-0.700					ND	
215 1-Methylcyclopentanol	1		-0.700					ND	
275 1,2,3-Trimethylbenzene	105		-0.700					ND	
225 2,4-Toluene diamine	1		-0.700					ND	
278 Photomirex TIC	1		-0.700					ND	
223 2-Chlorobenzotrifluoride	1		-0.700					ND	
221 CBF-500	1		-0.700					ND	
195 Phenylacetic Acid	1		-0.700					ND	
287 2,6-Dichlorotoluene TIC	1		-0.700					ND	
219 alpha,alpha-Dimethyl phene	1		-0.700					ND	
208 n,n'-Dimethylacetamide	1		-0.700					ND	
216 4-Chlorobenzotrifluoride	1		-0.700					ND	
291 3-Chlorobenzotrifluoride T	1		-0.700					ND	
185 Phenylmercaptan	110		-0.700					ND	
200 Dibenzo[a,h]pyrene	1		-0.700					ND	
188 CAG-800	1		-0.700					ND	
272 Benzophenone	1		-0.700					ND	
194 CN-500	1		-0.700					ND	
224 CBF-400	1		-0.700					ND	
209 7H-Dibenzo[c,g]carbazole	1		-0.700					ND	
298 2-Aminopyridine TIC	1		-0.700					ND	
274 Phenyl ether	1		-0.700					ND	
193 Dibenz(a,i)pyrene	1		-0.700					ND	
186 Dibenz[a,j]acridine	279		-0.700					ND	
201 2,3-Dichlorophenol	1		-0.700					ND	
273 4-tert-Octylphenol	1		-0.700					ND	
202 4-Chlorotoluene	91		-0.700					ND	
289 2-Chlorobenzotrifluoride T	1		-0.700					ND	
277 1,4-Dioxane TIC	1		-0.700					ND	
196 CU-600	1		-0.700					ND	
210 3-Chlorotoluene	1		-0.700					ND	
207 3-Chlorobenzotrifluoride	1		-0.700					ND	
290 2,4-Dichlorotoluene TIC	1		-0.700					ND	
190 Benzeneacetonitrile	1		-0.700					ND	
192 NVF-400	1		-0.700					ND	
203 Pendimethalin	1		-0.700					ND	
276 4-Chloro-3-nitro-alpha,alp	1		-0.700					ND	
230 Pentachlorophenol_T	266	10.180	10.170	0.010	83	6771		NR	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
233 4,4'-DDE	246		11.662					ND	
232 Benzidine_T	184	11.671	11.666	0.005	98	17883			NR
234 4,4'-DDD	235		12.141					ND	
235 4,4'-DDT	235		12.392					ND	
S 236 3 & 4 Methylphenol	108				0			3.95	
S 239 EPH Adjustment 1	1		-0.700					ND	
S 238 3-Methylphenol	1				0		5.00	3.95	
S 237 Total Cresols	1				0			7.06	
T 306 Fluorobenzene TIC	96		0.976					ND	
T 311 1-Bromo-2-chloroethane TIC	63		1.328					ND	
T 301 Ethylene Dibromide TIC	107		2.194					ND	
T 288 4-Chlorobenzotrifluoride T	180		2.942					ND	
T 308 1-Bromo-3-fluorobenzene TI	95		3.855					ND	
T 304 4-Bromofluorobenzene TIC	174		4.026					ND	
T 305 1,2-dichloro-4-(trifluorom	214		4.865					ND	
T 307 2-Bromopyridine TIC	78		5.169					ND	
T 245 2,4-Xylidine TIC	121		5.300					ND	
T 242 5-Methyl-o-Anisidine TIC	122		5.300					ND	
T 240 o-Anisidine TIC	108		5.300					ND	
T 243 Tris(2,3-dibromopropyl)pho	201		5.300					ND	
T 241 1,3-phenylenediamine TIC	108		5.300					ND	
T 244 4,4'-Methylene bis(2-chlor	231		5.300					ND	
T 309 1-Bromo-4-ethylbenzene TIC	169		6.291					ND	
T 302 3-Nitro-4-Chlorobenzotrifl	179		6.382					ND	
T 310 3-Amino-4-Chlorobenzotrifl	195		6.414					ND	
T 248 Tetramethyl lead TIC	253		7.300					ND	
T 250 Pendimethalin (TIC)	252		7.300					ND	
T 246 Benefin (TIC)	292		7.300					ND	
T 247 Benzeneacetic acid (TIC)	91		7.300					ND	
T 251 Prometryn (TIC)	241		7.300					ND	
T 303 3'-Bromoacetophenone TIC	183		7.643					ND	
T 252 1-Methylnaphthalene (TIC)	142	7.477	7.778	-0.296	94	41235		6.06	
T 249 trans Azobenzene (TIC)	77	9.523	9.841	-0.312	95	49633		7.29	
T 253 Hexamethyldisiloxane TIC	147		2.300					ND	
T 254 2,3,7,8-TCDD	322		7.300					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00039 Amount Added: 20.00 Units: uL Run Reagent

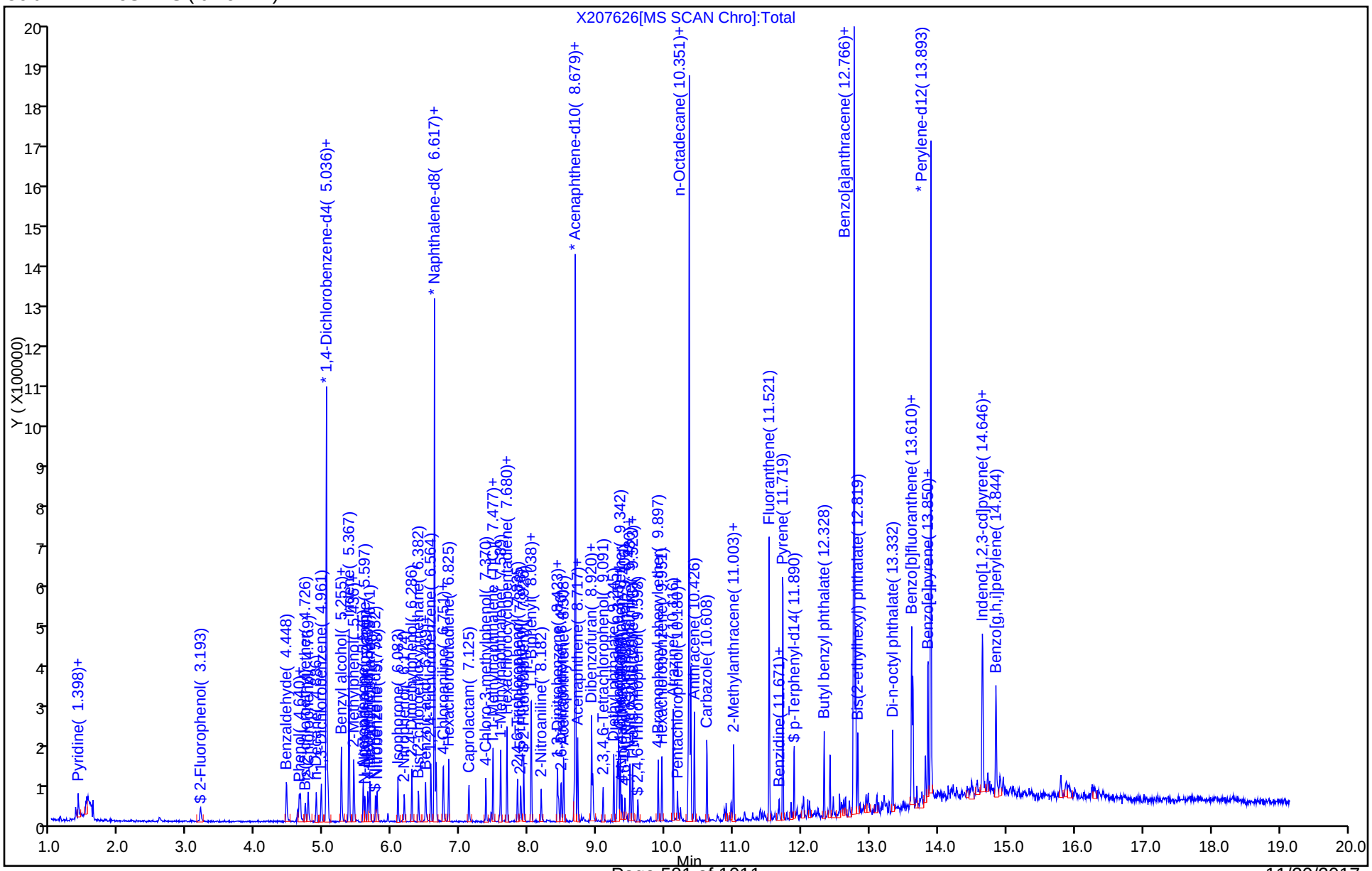
Report Date: 20-Nov-2017 11:33:39 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973X\20171116-67330.b\X207626.D

Injection Date:	16-Nov-2017 17:45:30	Instrument ID:	HP5973X	Operator ID:	dr
Lims ID:	480-127239-A-9-H MSD			Worklist Smp#:	15
Client ID:	NS-SOUTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	15
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: HP5973U Start Date: 10/29/2017 17:24

Analysis Batch Number: 384467 End Date: 10/30/2017 00:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-384467/2		10/29/2017 17:24	1	U328552.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/3		10/29/2017 17:50	1	U328553.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/4		10/29/2017 18:17	1	U328554.D	RXI-5Sil MS(0.5 0.25(mm)
ICIS 480-384467/5		10/29/2017 18:44	1	U328555.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/6		10/29/2017 19:11	1	U328556.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/7		10/29/2017 19:37	1	U328557.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/8		10/29/2017 20:04	1	U328558.D	RXI-5Sil MS(0.5 0.25(mm)
ICV 480-384467/9		10/29/2017 20:31	1		RXI-5Sil MS(0.5 0.25(mm)
ICV 480-384467/10		10/29/2017 20:57	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/11		10/29/2017 21:24	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/12		10/29/2017 21:51	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/13		10/29/2017 22:17	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/14		10/29/2017 22:44	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/15		10/29/2017 23:11	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-384467/16		10/29/2017 23:38	1		RXI-5Sil MS(0.5 0.25(mm)
ICV 480-384467/17		10/30/2017 00:04	1		RXI-5Sil MS(0.5 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: HP5973U Start Date: 11/10/2017 16:33

Analysis Batch Number: 386804 End Date: 11/11/2017 03:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-386804/3		11/10/2017 16:33	1	U328779.D	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-386804/4		11/10/2017 16:59	1	U328780.D	RXI-5Sil MS(0.5 0.25(mm)
RL 480-386804/5		11/10/2017 17:27	1		RXI-5Sil MS(0.5 0.25(mm)
MB 480-386401/1-A		11/10/2017 17:53	1	U328784.D	RXI-5Sil MS(0.5 0.25(mm)
LCS 480-386401/2-A		11/10/2017 18:20	1	U328785.D	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/10/2017 18:46	10		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/10/2017 19:12	10		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/10/2017 19:39	10		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/10/2017 20:05	10		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/10/2017 20:31	10		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/10/2017 20:58	10		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/10/2017 21:24	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/10/2017 21:50	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/10/2017 22:17	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/10/2017 22:43	1		RXI-5Sil MS(0.5 0.25(mm)
480-127239-11		11/11/2017 02:40	5	U328804.D	RXI-5Sil MS(0.5 0.25(mm)
480-127239-12		11/11/2017 03:06	20	U328805.D	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		11/11/2017 03:33	20		RXI-5Sil MS(0.5 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: HP5973U Start Date: 11/13/2017 15:16

Analysis Batch Number: 387056 End Date: 11/13/2017 19:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-387056/3		11/13/2017 15:16	1	U328814.D	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-387056/4		11/13/2017 15:43	1	U328815.D	RXI-5Sil MS(0.5 0.25(mm)
RL 480-387056/5		11/13/2017 16:09	1		RXI-5Sil MS(0.5 0.25(mm)
480-127239-1		11/13/2017 16:36	10	U328817.D	RXI-5Sil MS(0.5 0.25(mm)
480-127239-2		11/13/2017 17:03	20	U328818.D	RXI-5Sil MS(0.5 0.25(mm)
480-127239-4		11/13/2017 17:29	10	U328819.D	RXI-5Sil MS(0.5 0.25(mm)
480-127239-5		11/13/2017 17:56	10	U328820.D	RXI-5Sil MS(0.5 0.25(mm)
480-127239-6		11/13/2017 18:22	20	U328821.D	RXI-5Sil MS(0.5 0.25(mm)
480-127239-7		11/13/2017 18:49	20	U328822.D	RXI-5Sil MS(0.5 0.25(mm)
480-127239-8		11/13/2017 19:15	20	U328823.D	RXI-5Sil MS(0.5 0.25(mm)
480-127239-10		11/13/2017 19:42	20	U328824.D	RXI-5Sil MS(0.5 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: HP5973X Start Date: 10/19/2017 12:15

Analysis Batch Number: 382697 End Date: 10/19/2017 22:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-382697/2		10/19/2017 12:15	1	X20654.D	RXI-5Sil MS 0.25(mm)
IC 480-382697/3		10/19/2017 12:41	1	X20655.D	RXI-5Sil MS 0.25(mm)
IC 480-382697/4		10/19/2017 13:08	1	X20656.D	RXI-5Sil MS 0.25(mm)
ICIS 480-382697/5		10/19/2017 13:34	1	X20657.D	RXI-5Sil MS 0.25(mm)
IC 480-382697/6		10/19/2017 14:00	1	X20658.D	RXI-5Sil MS 0.25(mm)
IC 480-382697/7		10/19/2017 14:27	1	X20659.D	RXI-5Sil MS 0.25(mm)
IC 480-382697/8		10/19/2017 14:53	1	X20660.D	RXI-5Sil MS 0.25(mm)
ICV 480-382697/9		10/19/2017 15:19	1		RXI-5Sil MS 0.25(mm)
ICV 480-382697/10		10/19/2017 15:45	1		RXI-5Sil MS 0.25(mm)
CCVIS 480-382697/11		10/19/2017 16:24	1		RXI-5Sil MS 0.25(mm)
RL 480-382697/12		10/19/2017 16:51	1		RXI-5Sil MS 0.25(mm)
CCV 480-382697/13		10/19/2017 17:18	1		RXI-5Sil MS 0.25(mm)
CCV 480-382697/14		10/19/2017 17:45	1		RXI-5Sil MS 0.25(mm)
CCV 480-382697/15		10/19/2017 18:12	1		RXI-5Sil MS 0.25(mm)
		10/19/2017 22:42	20		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: HP5973X Start Date: 11/16/2017 12:28

Analysis Batch Number: 387796 End Date: 11/16/2017 18:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-387796/3		11/16/2017 12:28	1	X207614.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-387796/4		11/16/2017 12:54	1	X207615.D	RXI-5Sil MS 0.25(mm)
RL 480-387796/5		11/16/2017 13:21	1		RXI-5Sil MS 0.25(mm)
CCV 480-387796/6		11/16/2017 13:47	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/16/2017 14:14	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/16/2017 14:40	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/16/2017 15:06	1		RXI-5Sil MS 0.25(mm)
MB 480-387560/1-A		11/16/2017 15:33	1	X207621.D	RXI-5Sil MS 0.25(mm)
LCS 480-387560/2-A		11/16/2017 16:00	1	X207622.D	RXI-5Sil MS 0.25(mm)
480-127239-3 MS		11/16/2017 16:26	10	X207623.D	RXI-5Sil MS 0.25(mm)
480-127239-3 MSD		11/16/2017 16:53	10	X207624.D	RXI-5Sil MS 0.25(mm)
480-127239-9 MS		11/16/2017 17:19	10	X207625.D	RXI-5Sil MS 0.25(mm)
480-127239-9 MSD		11/16/2017 17:45	10	X207626.D	RXI-5Sil MS 0.25(mm)
480-127239-3		11/16/2017 18:12	10	X207627.D	RXI-5Sil MS 0.25(mm)
480-127239-9		11/16/2017 18:38	10	X207628.D	RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Batch Number: 386401 Batch Start Date: 11/09/17 07:08 Batch Analyst: Palermo, Stephan M

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8270/625LCS 00108	O_8270surr 00064	O_8270surr 00065
MB 480-386401/1		3550C, 8270D		CALC NOT SET TO RUN	30.74 g	1 mL		1 mL	
LCS 480-386401/2		3550C, 8270D		CALC NOT SET TO RUN	30.92 g	1 mL	1 mL	1 mL	
480-127239-A-1	NS-NORTH-SOIL 0-2"	3550C, 8270D	T	CALC NOT SET TO RUN	30.66 g	1 mL		1 mL	
480-127239-A-2	NS-EAST-SOIL 0-2"	3550C, 8270D	T	CALC NOT SET TO RUN	30.66 g	1 mL		1 mL	
480-127239-A-4	NS-WEST-SOIL 0-2"	3550C, 8270D	T	CALC NOT SET TO RUN	30.25 g	1 mL		1 mL	
480-127239-A-5	NS-SBN-SOIL 0-2"	3550C, 8270D	T	CALC NOT SET TO RUN	30.67 g	1 mL		1 mL	
480-127239-A-6	NS-DUP-SOIL 0-2"	3550C, 8270D	T	CALC NOT SET TO RUN	30.67 g	1 mL		1 mL	
480-127239-A-7	NS-NORTH-SOIL 2-12"	3550C, 8270D	T	CALC NOT SET TO RUN	30.75 g	1 mL		1 mL	
480-127239-A-8	NS-EAST-SOIL 2-12"	3550C, 8270D	T	CALC NOT SET TO RUN	30.09 g	1 mL		1 mL	
480-127239-A-10	NS-WEST-SOIL 2-12"	3550C, 8270D	T	CALC NOT SET TO RUN	30.77 g	1 mL		1 mL	
480-127239-A-11	NS-SBN-SOIL 2-12"	3550C, 8270D	T	CALC NOT SET TO RUN	30.53 g	1 mL			1 mL
480-127239-A-12	NS-DUP-SOIL 2-12"	3550C, 8270D	T	CALC NOT SET TO RUN	30.65 g	1 mL			1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 480-386401/1		3550C, 8270D							
LCS 480-386401/2		3550C, 8270D							
480-127239-A-1	NS-NORTH-SOIL 0-2"	3550C, 8270D	T						
480-127239-A-2	NS-EAST-SOIL 0-2"	3550C, 8270D	T	grass and roots					
480-127239-A-4	NS-WEST-SOIL 0-2"	3550C, 8270D	T						
480-127239-A-5	NS-SBN-SOIL 0-2"	3550C, 8270D	T						
480-127239-A-6	NS-DUP-SOIL 0-2"	3550C, 8270D	T						
480-127239-A-7	NS-NORTH-SOIL 2-12"	3550C, 8270D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Batch Number: 386401 Batch Start Date: 11/09/17 07:08 Batch Analyst: Palermo, Stephan M

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
480-127239-A-8	NS-EAST-SOIL 2-12"	3550C, 8270D	T						
480-127239-A-10	NS-WEST-SOIL 2-12"	3550C, 8270D	T						
480-127239-A-11	NS-SBN-SOIL 2-12"	3550C, 8270D	T						
480-127239-A-12	NS-DUP-SOIL 2-12"	3550C, 8270D	T						

Batch Notes	
Balance ID	Balance 5
Batch Comment	Filter paper lot # 9850063
Blank Soil Lot Number	4334261
Analyst ID - Concentration	SP, CM
Na2SO4 ID	4334262
Nominal Amount Used	30 g
Prep Solvent ID	4351907/4305903
Prep Solvent Name	MeCl2/Acetone
Prep Solvent Volume Used	300 mL
Person's name who did the prep	SP
Analyst ID - Reagent Drop Witness	SP
Analyst ID - Reagent Drop	SP
Perform Calculation (0=No, 1=Yes)	0
Vial Lot Number	1634811094

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Batch Number: 387560 Batch Start Date: 11/15/17 14:07 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8270/625LCS 00109	O_8270surr 00065	
MB 480-387560/1		3550C, 8270D		CALC NOT SET TO RUN	30.42 g	1 mL		1 mL	
LCS 480-387560/2		3550C, 8270D		CALC NOT SET TO RUN	30.64 g	1 mL	1 mL	1 mL	
480-127239-A-3 MS	NS-SOUTH-SOIL 0-2"	3550C, 8270D	T	CALC NOT SET TO RUN	30.16 g	1 mL	1 mL	1 mL	
480-127239-A-3 MSD	NS-SOUTH-SOIL 0-2"	3550C, 8270D	T	CALC NOT SET TO RUN	30.45 g	1 mL	1 mL	1 mL	
480-127239-A-9 MS	NS-SOUTH-SOIL 2-12"	3550C, 8270D	T	CALC NOT SET TO RUN	30.40 g	1 mL	1 mL	1 mL	
480-127239-A-9 MSD	NS-SOUTH-SOIL 2-12"	3550C, 8270D	T	CALC NOT SET TO RUN	30.48 g	1 mL	1 mL	1 mL	
480-127239-D-3	NS-SOUTH-SOIL 0-2"	3550C, 8270D	T	CALC NOT SET TO RUN	30.69 g	1 mL		1 mL	
480-127239-B-9	NS-SOUTH-SOIL 2-12"	3550C, 8270D	T	CALC NOT SET TO RUN	30.92 g	1 mL		1 mL	

Batch Notes	
Balance ID	Balance 5
Batch Comment	Filter paper lot # 9850063
Blank Soil Lot Number	4334261
Analyst ID - Concentration	BK
Na2SO4 ID	4334262
Nominal Amount Used	30 g
Prep Solvent ID	4367058/4366628
Prep Solvent Name	MeCl2/Acetone
Prep Solvent Volume Used	300 mL
Person's name who did the prep	BK
Analyst ID - Reagent Drop Witness	BK
Analyst ID - Reagent Drop	BK
Perform Calculation (0=No, 1=Yes)	0
Vial Lot Number	1634811094

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Batch Number: 387560 Batch Start Date: 11/15/17 14:07 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
NS-NORTH-SOIL 0-2"	480-127239-1	121	106	98	125
NS-EAST-SOIL 0-2"	480-127239-2	100	84	89	99
NS-SOUTH-SOIL 0-2"	480-127239-3	95	80	76	90
NS-WEST-SOIL 0-2"	480-127239-4	124	103	98	115
NS-SBN-SOIL 0-2"	480-127239-5	110	99	89	110
NS-DUP-SOIL 0-2"	480-127239-6	97	74	104	119
NS-NORTH-SOIL 2-12"	480-127239-7	118	98	97	109
NS-EAST-SOIL 2-12"	480-127239-8	113	91	93	106
NS-SOUTH-SOIL 2-12"	480-127239-9	112	96	91	112
NS-WEST-SOIL 2-12"	480-127239-10	109	91	85	98
NS-SBN-SOIL 2-12"	480-127239-11	144	123	119	135
NS-DUP-SOIL 2-12"	480-127239-12	122	101	93	109
	MB 480-386487/1-A	133	116	115	137
	LCS 480-386487/2-A	143	128	125	152
NS-SOUTH-SOIL 0-2" MS	480-127239-3 MS	131	104	101	121
NS-SOUTH-SOIL 2-12" MS	480-127239-9 MS	129	105	105	123
NS-SOUTH-SOIL 0-2" MSD	480-127239-3 MSD	136	104	103	120
NS-SOUTH-SOIL 2-12" MSD	480-127239-9 MSD	147	121	119	139

	QC LIMITS
TCX = Tetrachloro-m-xylene	60-154
DCBP = DCB Decachlorobiphenyl	65-174

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_03-273.D

Lab ID: LCS 480-386487/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	2.10	2.30	109	51-185	
PCB-1260	2.10	2.38	113	61-184	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_03-274.D

Lab ID: 480-127239-3 MS Client ID: NS-SOUTH-SOIL 0-2" MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
PCB-1016	2.73	ND	2.53	93	50-177	
PCB-1260	2.73	0.60	3.69	113	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_03-276.D

Lab ID: 480-127239-9 MS Client ID: NS-SOUTH-SOIL 2-12" MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
PCB-1016	2.35	ND	2.00	85	50-177	
PCB-1260	2.35	0.20 J	2.53	99	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_03-275.D

Lab ID: 480-127239-3 MSD Client ID: NS-SOUTH-SOIL 0-2" MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	3.21	3.42	107	30	50	50-177	
PCB-1260	3.21	4.67	127	24	50	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_03-277.D

Lab ID: 480-127239-9 MSD Client ID: NS-SOUTH-SOIL 2-12" MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	2.91	3.39	116	52	50	50-177	F4
PCB-1260	2.91	3.56	115	34	50	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: MB 480-386487/1-A

Matrix: Solid Date Extracted: 11/09/2017 10:52

Lab File ID:(1) 6_03-272.D Lab File ID:(2) 6_03-272.D

Date Analyzed:(1) 11/10/2017 12:57 Date Analyzed:(2) 11/10/2017 12:57

Instrument ID:(1) HP6890-6 Instrument ID:(2) HP6890-6

GC Column:(1) ZB-5 ID: 0.53(mm) GC Column:(2) ZB-35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-386487/2-A	11/10/2017 13:13	11/10/2017 13:13
NS-SOUTH-SOIL 0-2" MS	480-127239-3 MS	11/10/2017 13:29	11/10/2017 13:29
NS-SOUTH-SOIL 0-2" MSD	480-127239-3 MSD	11/10/2017 13:45	11/10/2017 13:45
NS-SOUTH-SOIL 2-12" MS	480-127239-9 MS	11/10/2017 14:01	11/10/2017 14:01
NS-SOUTH-SOIL 2-12" MSD	480-127239-9 MSD	11/10/2017 14:18	11/10/2017 14:18
NS-SOUTH-SOIL 0-2"	480-127239-3	11/10/2017 14:34	11/10/2017 14:34
NS-SOUTH-SOIL 2-12"	480-127239-9	11/10/2017 14:50	11/10/2017 14:50
NS-NORTH-SOIL 0-2"	480-127239-1	11/10/2017 15:06	11/10/2017 15:06
NS-EAST-SOIL 0-2"	480-127239-2	11/10/2017 15:22	11/10/2017 15:22
NS-WEST-SOIL 0-2"	480-127239-4	11/10/2017 15:38	11/10/2017 15:38
NS-SBN-SOIL 0-2"	480-127239-5	11/10/2017 15:54	11/10/2017 15:54
NS-DUP-SOIL 0-2"	480-127239-6	11/10/2017 16:10	11/10/2017 16:10
NS-NORTH-SOIL 2-12"	480-127239-7	11/10/2017 16:25	11/10/2017 16:25
NS-EAST-SOIL 2-12"	480-127239-8	11/10/2017 16:41	11/10/2017 16:41
NS-WEST-SOIL 2-12"	480-127239-10	11/10/2017 16:57	11/10/2017 16:57
NS-SBN-SOIL 2-12"	480-127239-11	11/10/2017 17:13	11/10/2017 17:13
NS-DUP-SOIL 2-12"	480-127239-12	11/10/2017 17:29	11/10/2017 17:29

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: ICIS 480-384409/8 Date Analyzed: 10/28/2017 15:18

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 6_02-272.D Heated Purge: (Y/N) N

Calibration ID: 31845

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		18054981	1.20				
UPPER LIMIT		36109962	1.25				
LOWER LIMIT		9027491	1.15				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-386747/4		20242049	1.19				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: ICIS 480-384409/8 Date Analyzed: 10/28/2017 15:18

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 6_02-272.D Heated Purge: (Y/N) N

Calibration ID: 31846

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		20467009	1.19				
UPPER LIMIT		40934018	1.24				
LOWER LIMIT		10233505	1.14				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-386747/4		18867675	1.18				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: CCVIS 480-386747/4 Date Analyzed: 11/10/2017 11:21

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 6_03-266.D Heated Purge: (Y/N) N

Calibration ID: 31863

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		20242049	1.19				
UPPER LIMIT		40484098	1.24				
LOWER LIMIT		10121025	1.14				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-386747/5		18685436	1.19				
CCV 480-386747/6		18734932	1.19				
CCV 480-386747/7		17840336	1.19				
CCV 480-386747/8		15631579	1.19				
MB 480-386487/1-A		18336049	1.19				
LCS 480-386487/2-A		20070548	1.19				
480-127239-3 MS	NS-SOUTH-SOIL 0-2" MS	17334428	1.19				
480-127239-3 MSD	NS-SOUTH-SOIL 0-2" MSD	18597844	1.19				
480-127239-9 MS	NS-SOUTH-SOIL 2-12" MS	20040552	1.19				
480-127239-9 MSD	NS-SOUTH-SOIL 2-12" MSD	19337123	1.19				
480-127239-3	NS-SOUTH-SOIL 0-2"	23462371	1.19				
480-127239-9	NS-SOUTH-SOIL 2-12"	21973378	1.19				
480-127239-1	NS-NORTH-SOIL 0-2"	19664382	1.19				
480-127239-2	NS-EAST-SOIL 0-2"	20957285	1.19				
480-127239-4	NS-WEST-SOIL 0-2"	18927248	1.19				
480-127239-5	NS-SBN-SOIL 0-2"	21397421	1.19				
480-127239-6	NS-DUP-SOIL 0-2"	22481576	1.19				
480-127239-7	NS-NORTH-SOIL 2-12"	18849942	1.19				
480-127239-8	NS-EAST-SOIL 2-12"	18564596	1.19				
480-127239-10	NS-WEST-SOIL 2-12"	20968781	1.19				
480-127239-11	NS-SBN-SOIL 2-12"	17603337	1.19				
480-127239-12	NS-DUP-SOIL 2-12"	19486228	1.19				

BNB = 1-Bromo-2-nitrobenzene
BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Sample No.: CCVIS 480-386747/4 Date Analyzed: 11/10/2017 11:21

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 6_03-266.D Heated Purge: (Y/N) N

Calibration ID: 31864

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		18867675	1.18				
UPPER LIMIT		37735350	1.23				
LOWER LIMIT		9433838	1.13				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-386747/5		17436388	1.18				
CCV 480-386747/6		17496972	1.18				
CCV 480-386747/7		16776424	1.18				
CCV 480-386747/8		14427244	1.18				
MB 480-386487/1-A		19120331	1.18				
LCS 480-386487/2-A		20437116	1.18				
480-127239-3 MS	NS-SOUTH-SOIL 0-2" MS	18214217	1.19				
480-127239-3 MSD	NS-SOUTH-SOIL 0-2" MSD	19551393	1.19				
480-127239-9 MS	NS-SOUTH-SOIL 2-12" MS	20881811	1.19				
480-127239-9 MSD	NS-SOUTH-SOIL 2-12" MSD	19711286	1.18				
480-127239-3	NS-SOUTH-SOIL 0-2"	23842903	1.19				
480-127239-9	NS-SOUTH-SOIL 2-12"	22276001	1.18				
480-127239-1	NS-NORTH-SOIL 0-2"	19487419	1.18				
480-127239-2	NS-EAST-SOIL 0-2"	21962029	1.18				
480-127239-4	NS-WEST-SOIL 0-2"	19626726	1.19				
480-127239-5	NS-SBN-SOIL 0-2"	21700260	1.18				
480-127239-6	NS-DUP-SOIL 0-2"	23892752	1.19				
480-127239-7	NS-NORTH-SOIL 2-12"	19880419	1.18				
480-127239-8	NS-EAST-SOIL 2-12"	20174793	1.19				
480-127239-10	NS-WEST-SOIL 2-12"	21737311	1.19				
480-127239-11	NS-SBN-SOIL 2-12"	18325592	1.18				
480-127239-12	NS-DUP-SOIL 2-12"	20162534	1.18				

BNB = 1-Bromo-2-nitrobenzene
BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 0-2" Lab Sample ID: 480-127239-1

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 15:06 Date Analyzed (2): 11/10/2017 15:06

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1260	1	1	4.66	4.65	4.68	2.19	1.7	19.0
		2	4.85	4.83	4.86	1.77		
		3	5.08	5.06	5.09	2.25		
		4	5.60	5.59	5.62	1.16		
		5	5.84	5.83	5.86	1.30		
	2	1	4.88	4.86	4.89	4.12	2.1	
		2	4.93	4.91	4.94	1.64		
		3	5.19	5.18	5.21	1.95		
		4	5.33	5.31	5.34	1.35		
		5	5.66	5.65	5.68	1.43		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 0-2" Lab Sample ID: 480-127239-2

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 15:22 Date Analyzed (2): 11/10/2017 15:22

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	4.16	4.15	4.18	0.699	0.78	17.1
		2	4.47	4.45	4.48	0.706		
		3	4.67	4.65	4.68	0.576		
		4	4.89	4.88	4.91	0.797		
		5	5.08	5.06	5.09	1.10		
	2	1	3.91	3.89	3.92	0.983	0.92	
		2	4.22	4.20	4.23	0.630		
		3	4.31	4.29	4.32	0.965		
		4	4.45	4.42	4.45	0.813		
		5	4.88	4.86	4.89	1.22		
PCB-1260	1	1	4.67	4.65	4.68	0.970	0.64	2.0
		2	4.85	4.83	4.86	0.626		
		3	5.08	5.06	5.09	0.754		
		4	5.60	5.59	5.62	0.405		
		5	5.85	5.83	5.86	0.441		
	2	1	4.88	4.86	4.89	1.35	0.65	
		2	4.93	4.91	4.94	0.532		
		3	5.20	5.18	5.21	0.554		
		4	5.33	5.31	5.34	0.408		
		5	5.66	5.65	5.68	0.421		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" Lab Sample ID: 480-127239-3

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 14:34 Date Analyzed (2): 11/10/2017 14:34

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1260	1	1	4.67	4.65	4.68	0.820	0.60	10.0
		2	4.85	4.83	4.86	0.603		
		3	5.08	5.06	5.09	0.788		
		4	5.60	5.59	5.62	0.351		
		5	5.84	5.83	5.86	0.419		
	2	1	4.88	4.86	4.89	1.45	0.66	
		2	4.93	4.91	4.94	0.416		
		3	5.20	5.18	5.21	0.604		
		4	5.33	5.31	5.34	0.402		
		5	5.66	5.65	5.68	0.420		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MS Lab Sample ID: 480-127239-3 MS

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 13:29 Date Analyzed (2): 11/10/2017 13:29

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.81	2.79	2.82	3.00	2.53	6.9
		2	2.96	2.95	2.98	2.82		
		3	3.18	3.16	3.19	2.33		
		4	3.26	3.25	3.28	2.45		
		5	3.33	3.31	3.34	2.03		
	2	1	2.65	2.64	2.67	2.45	2.36	
		2	2.98	2.96	2.99	2.59		
		3	3.10	3.08	3.11	2.34		
		4	3.20	3.18	3.21	2.03		
		5	3.49	3.47	3.50	2.38		
PCB-1260	1	1	4.66	4.65	4.68	3.99	3.69	2.3
		2	4.85	4.83	4.86	3.60		
		3	5.08	5.06	5.09	4.45		
		4	5.60	5.59	5.62	3.19		
		5	5.85	5.83	5.86	3.21		
	2	1	4.88	4.86	4.89	5.18	3.77	
		2	4.93	4.91	4.94	3.30		
		3	5.19	5.18	5.21	3.60		
		4	5.33	5.31	5.34	3.30		
		5	5.67	5.65	5.68	3.49		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MSD Lab Sample ID: 480-127239-3 MSD

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 13:45 Date Analyzed (2): 11/10/2017 13:45

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.81	2.79	2.82	3.92	3.42	1.6
		2	2.97	2.95	2.98	3.65		
		3	3.18	3.16	3.19	3.16		
		4	3.26	3.25	3.28	3.27		
		5	3.33	3.31	3.34	3.10		
	2	1	2.66	2.64	2.67	3.38	3.37	
		2	2.98	2.96	2.99	3.56		
		3	3.10	3.08	3.11	3.24		
		4	3.20	3.18	3.21	3.24		
		5	3.49	3.47	3.50	3.40		
PCB-1260	1	1	4.66	4.65	4.68	4.79	4.67	1.7
		2	4.85	4.83	4.86	4.48		
		3	5.08	5.06	5.09	5.46		
		4	5.60	5.59	5.62	4.31		
		5	5.85	5.83	5.86	4.33		
	2	1	4.88	4.86	4.89	6.19	4.76	
		2	4.93	4.91	4.94	4.36		
		3	5.19	5.18	5.21	4.20		
		4	5.33	5.31	5.34	4.43		
		5	5.67	5.65	5.68	4.59		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 0-2" Lab Sample ID: 480-127239-4

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 15:38 Date Analyzed (2): 11/10/2017 15:38

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	4.16	4.15	4.18	3.99	4.7	18.9
		2	4.47	4.45	4.48	4.01		
		3	4.67	4.65	4.68	3.82		
		4	4.89	4.88	4.91	5.28		
		5	5.08	5.06	5.09	6.18		
	2	1	3.91	3.89	3.92	5.64	5.6	
		2	4.22	4.20	4.23	4.96		
		3	4.31	4.29	4.32	5.49		
		4	4.44	4.42	4.45	5.35		
		5	4.88	4.86	4.89	6.70		
PCB-1260	1	1	4.67	4.65	4.68	6.44	3.5	9.5
		2	4.85	4.83	4.86	3.32		
		3	5.08	5.06	5.09	4.22		
		4	5.60	5.59	5.62	1.73		
		5	5.84	5.83	5.86	1.85		
	2	1	4.88	4.86	4.89	7.42	3.2	
		2	4.93	4.91	4.94	1.92		
		3	5.20	5.18	5.21	2.87		
		4	5.33	5.31	5.34	1.89		
		5	5.66	5.65	5.68	1.87		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 0-2" Lab Sample ID: 480-127239-5

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 15:54 Date Analyzed (2): 11/10/2017 15:54

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1260	1	1	4.66	4.65	4.68	4.70	4.2	1.9
		2	4.85	4.83	4.86	4.28		
		3	5.08	5.06	5.09	4.61		
		4	5.60	5.59	5.62	3.59		
		5	5.84	5.83	5.86	3.78		
	2	1	4.88	4.86	4.89	5.28	4.3	
		2	4.93	4.91	4.94	4.04		
		3	5.19	5.18	5.21	4.17		
		4	5.33	5.31	5.34	3.90		
		5	5.66	5.65	5.68	3.98		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 0-2" Lab Sample ID: 480-127239-6

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 16:10 Date Analyzed (2): 11/10/2017 16:10

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1260	1	1	4.66	4.65	4.68	1.35	1.2	7.6
		2	4.85	4.83	4.86	1.23		
		3	5.08	5.06	5.09	1.31		
		4	5.60	5.59	5.62	1.02		
		5	5.84	5.83	5.86	1.11		
	2	1	4.88	4.86	4.89	2.40	1.3	
		2	4.93	4.91	4.94	1.06		
		3	5.20	5.18	5.21	1.00		
		4	5.33	5.31	5.34	0.993		
		5	5.67	5.65	5.68	1.06		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 2-12" Lab Sample ID: 480-127239-7

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 16:25 Date Analyzed (2): 11/10/2017 16:25

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	4.16	4.15	4.18	1.55	2.7	9.7
		2	4.47	4.45	4.48	2.08		
		3	4.66	4.65	4.68	2.05		
		4	4.89	4.88	4.91	2.90		
		5	5.08	5.06	5.09	4.89		
	2	1	3.91	3.89	3.92	2.20	3.0	
		2	4.22	4.20	4.23	1.54		
		3	4.31	4.29	4.32	3.00		
		5	4.88	4.86	4.89	5.13		
PCB-1260	1	1	4.66	4.65	4.68	3.45	2.7	8.3
		2	4.85	4.83	4.86	2.70		
		3	5.08	5.06	5.09	3.34		
		4	5.60	5.59	5.62	1.87		
		5	5.85	5.83	5.86	1.93		
	2	1	4.88	4.86	4.89	5.69	2.9	
		2	4.93	4.91	4.94	2.24		
		3	5.20	5.18	5.21	2.48		
		4	5.33	5.31	5.34	1.96		
		5	5.67	5.65	5.68	2.08		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 2-12" Lab Sample ID: 480-127239-8

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 16:41 Date Analyzed (2): 11/10/2017 16:41

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1260	1	1	4.66	4.65	4.68	0.913	0.72	17.4
		2	4.85	4.83	4.86	0.680		
		3	5.08	5.06	5.09	0.839		
		4	5.60	5.59	5.62	0.560		
		5	5.85	5.83	5.86	0.598		
	2	1	4.88	4.86	4.89	1.62	0.85	
		2	4.93	4.91	4.94	0.713		
		3	5.19	5.18	5.21	0.721		
		4	5.33	5.31	5.34	0.582		
		5	5.66	5.65	5.68	0.633		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" Lab Sample ID: 480-127239-9

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 14:50 Date Analyzed (2): 11/10/2017 14:50

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1260	1	1	4.66	4.65	4.68	0.261	0.20	18.9
		2	4.85	4.83	4.86	0.202		
		3	5.08	5.06	5.09	0.236		
		4	5.60	5.59	5.62	0.150		
		5	5.84	5.83	5.86	0.165		
	2	1	4.88	4.86	4.89	0.487	0.25	
		2	4.93	4.91	4.94	0.172		
		3	5.20	5.18	5.21	0.219		
		4	5.33	5.31	5.34	0.169		
		5	5.66	5.65	5.68	0.178		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MS Lab Sample ID: 480-127239-9 MS

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 14:01 Date Analyzed (2): 11/10/2017 14:01

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.81	2.79	2.82	2.31	2.00	2.7
		2	2.96	2.95	2.98	2.10		
		3	3.18	3.16	3.19	1.89		
		4	3.26	3.25	3.28	1.92		
		5	3.33	3.31	3.34	1.77		
	2	1	2.66	2.64	2.67	2.07	2.05	
		2	2.98	2.96	2.99	2.19		
		3	3.10	3.08	3.11	2.01		
		4	3.20	3.18	3.21	1.94		
		5	3.49	3.47	3.50	2.05		
PCB-1260	1	1	4.66	4.65	4.68	2.56	2.53	4.2
		2	4.85	4.83	4.86	2.44		
		3	5.08	5.06	5.09	2.82		
		4	5.60	5.59	5.62	2.42		
		5	5.84	5.83	5.86	2.39		
	2	1	4.88	4.86	4.89	3.26	2.64	
		2	4.93	4.91	4.94	2.48		
		3	5.19	5.18	5.21	2.36		
		4	5.33	5.31	5.34	2.50		
		5	5.66	5.65	5.68	2.57		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MSD Lab Sample ID: 480-127239-9 MSD

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 14:18 Date Analyzed (2): 11/10/2017 14:18

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.81	2.79	2.82	3.93	3.39	4.2
		2	2.96	2.95	2.98	3.56		
		3	3.18	3.16	3.19	3.15		
		4	3.26	3.25	3.28	3.16		
		5	3.33	3.31	3.34	3.12		
	2	1	2.65	2.64	2.67	3.45	3.53	
		2	2.98	2.96	2.99	3.70		
		3	3.10	3.08	3.11	3.50		
		4	3.20	3.18	3.21	3.46		
		5	3.49	3.47	3.50	3.55		
PCB-1260	1	1	4.66	4.65	4.68	3.47	3.56	10.3
		2	4.85	4.83	4.86	3.47		
		3	5.08	5.06	5.09	3.73		
		4	5.60	5.59	5.62	3.68		
		5	5.84	5.83	5.86	3.43		
	2	1	4.88	4.86	4.89	4.30	3.94	
		2	4.93	4.91	4.94	3.96		
		3	5.19	5.18	5.21	3.57		
		4	5.33	5.31	5.34	3.92		
		5	5.67	5.65	5.68	3.97		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 2-12" Lab Sample ID: 480-127239-10

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 16:57 Date Analyzed (2): 11/10/2017 16:57

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1260	1	1	4.66	4.65	4.68	0.971	0.91	6.7
		2	4.85	4.83	4.86	0.910		
		3	5.08	5.06	5.09	1.02		
		4	5.60	5.59	5.62	0.804		
		5	5.85	5.83	5.86	0.834		
	2	1	4.88	4.86	4.89	1.36	0.97	
		2	4.93	4.91	4.94	0.871		
		3	5.19	5.18	5.21	0.898		
		4	5.33	5.31	5.34	0.849		
		5	5.67	5.65	5.68	0.871		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 2-12" Lab Sample ID: 480-127239-11

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 17:13 Date Analyzed (2): 11/10/2017 17:13

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1260	1	1	4.66	4.65	4.68	5.65	5.7	0.2
		2	4.85	4.83	4.86	5.80		
		3	5.08	5.06	5.09	6.06		
		4	5.60	5.59	5.62	5.40		
		5	5.85	5.83	5.86	5.48		
	2	1	4.88	4.86	4.89	6.81	5.7	
		2	4.93	4.91	4.94	5.27		
		3	5.19	5.18	5.21	5.00		
		4	5.33	5.31	5.34	5.62		
		5	5.67	5.65	5.68	5.61		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 2-12" Lab Sample ID: 480-127239-12

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 17:29 Date Analyzed (2): 11/10/2017 17:29

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1260	1	1	4.66	4.65	4.68	1.00	0.93	9.6
		2	4.85	4.83	4.86	0.930		
		3	5.08	5.06	5.09	1.06		
		4	5.60	5.59	5.62	0.810		
		5	5.85	5.83	5.86	0.844		
	2	1	4.88	4.86	4.89	1.42	1.0	
		2	4.93	4.91	4.94	0.943		
		3	5.19	5.18	5.21	0.969		
		4	5.33	5.31	5.34	0.894		
		5	5.67	5.65	5.68	0.900		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-386487/2-A

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/10/2017 13:13 Date Analyzed (2): 11/10/2017 13:13

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.81	2.79	2.82	2.65	2.30	11.2
		2	2.96	2.95	2.98	2.33		
		3	3.18	3.16	3.19	2.20		
		4	3.26	3.25	3.28	2.15		
		5	3.33	3.31	3.34	2.14		
	2	1	2.65	2.64	2.67	2.49	2.57	
		2	2.98	2.96	2.99	2.66		
		3	3.10	3.08	3.11	2.55		
		4	3.20	3.18	3.21	2.56		
		5	3.49	3.47	3.50	2.58		
PCB-1260	1	1	4.66	4.65	4.68	2.24	2.38	12.3
		2	4.85	4.83	4.86	2.35		
		3	5.08	5.06	5.09	2.43		
		4	5.60	5.59	5.62	2.53		
		5	5.85	5.83	5.86	2.33		
	2	1	4.88	4.86	4.89	2.76	2.69	
		2	4.93	4.91	4.94	2.78		
		3	5.19	5.18	5.21	2.35		
		4	5.33	5.31	5.34	2.79		
		5	5.67	5.65	5.68	2.74		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 0-2" | Lab Sample ID: 480-127239-1

Matrix: Solid | Lab File ID: 6_03-280.D

Analysis Method: 8082A | Date Collected: 11/07/2017 13:10

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.42(g) | Date Analyzed: 11/10/2017 15:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 25.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.28	0.054
11104-28-2	PCB-1221	ND		0.28	0.054
11141-16-5	PCB-1232	ND		0.28	0.054
53469-21-9	PCB-1242	ND		0.28	0.054
12672-29-6	PCB-1248	ND		0.28	0.054
11097-69-1	PCB-1254	ND		0.28	0.13
11096-82-5	PCB-1260	1.7		0.28	0.13
37324-23-5	PCB-1262	ND		0.28	0.13
11100-14-4	PCB-1268	ND		0.28	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	121		60-154
2051-24-3	DCB Decachlorobiphenyl	98		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-280.D
Lims ID: 480-127239-A-1-B
Client ID: NS-NORTH-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 15:06:25 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:31:58 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:31:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.186	1.186	0.000	19664382	0.5000	
2	1.183	1.183	0.000	19487419	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.183	2.183	0.001	1028415	0.0242	
2	1.872	1.869	0.003	1072120	0.0212	
					RPD = 13.21	
11 PCB-1260						
1	4.663	4.660	0.003	749100	0.3963	
1	4.846	4.843	0.003	669852	0.3199	
1	5.078	5.077	0.001	1157098	0.4064	
1	5.603	5.601	0.002	617268	0.2103	
1	5.844	5.843	0.002	372448	0.2361	
		Average of Peak Amounts =			0.3138	
2	4.878	4.877	0.001	1594709	0.7458	
2	4.928	4.925	0.003	353691	0.2962	
2	5.194	5.190	0.004	503966	0.3536	
2	5.328	5.326	0.002	806123	0.2439	
2	5.664	5.663	0.002	517697	0.2587	
		Average of Peak Amounts =			0.3796	
					RPD = 18.98	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.844	5.843	0.002	372448	NR	
2	5.194	5.190	0.004	503966	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.001	100769	NR	
2	5.258	5.257	0.001	357570	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.948	5.945	0.003	116489	NR	
2	5.328	5.326	0.002	806123	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.990	6.987	0.003	468941	0.0197	
2	6.623	6.620	0.003	628449	0.0251	
					RPD = 24.20	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

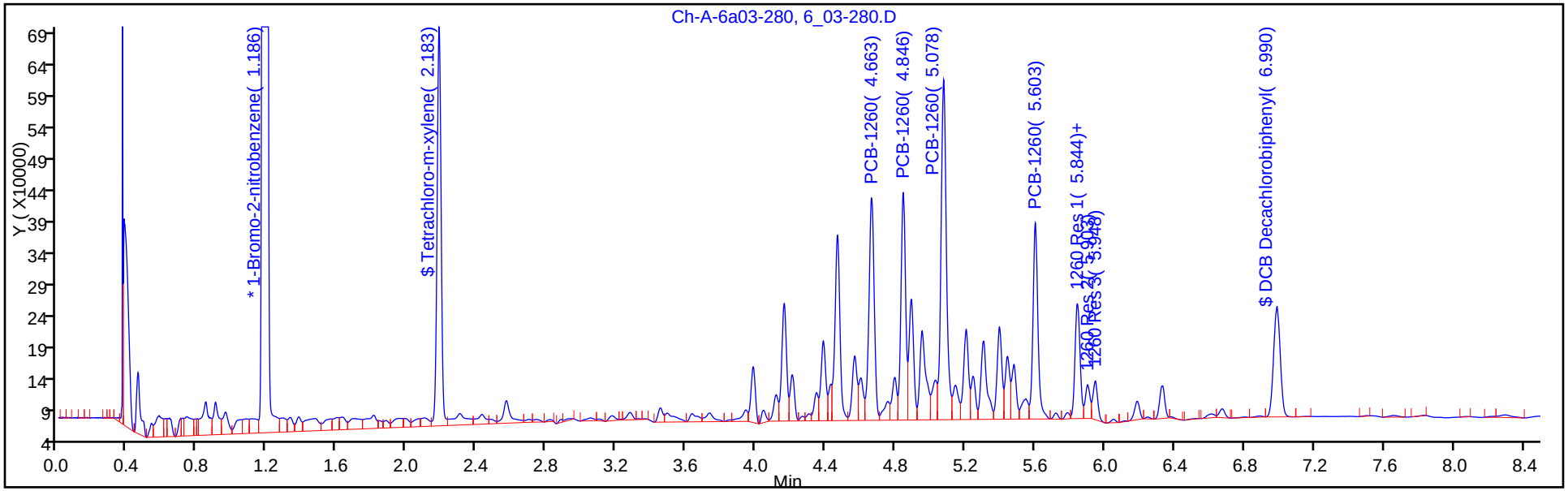
Report Date: 10-Nov-2017 15:31:59 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

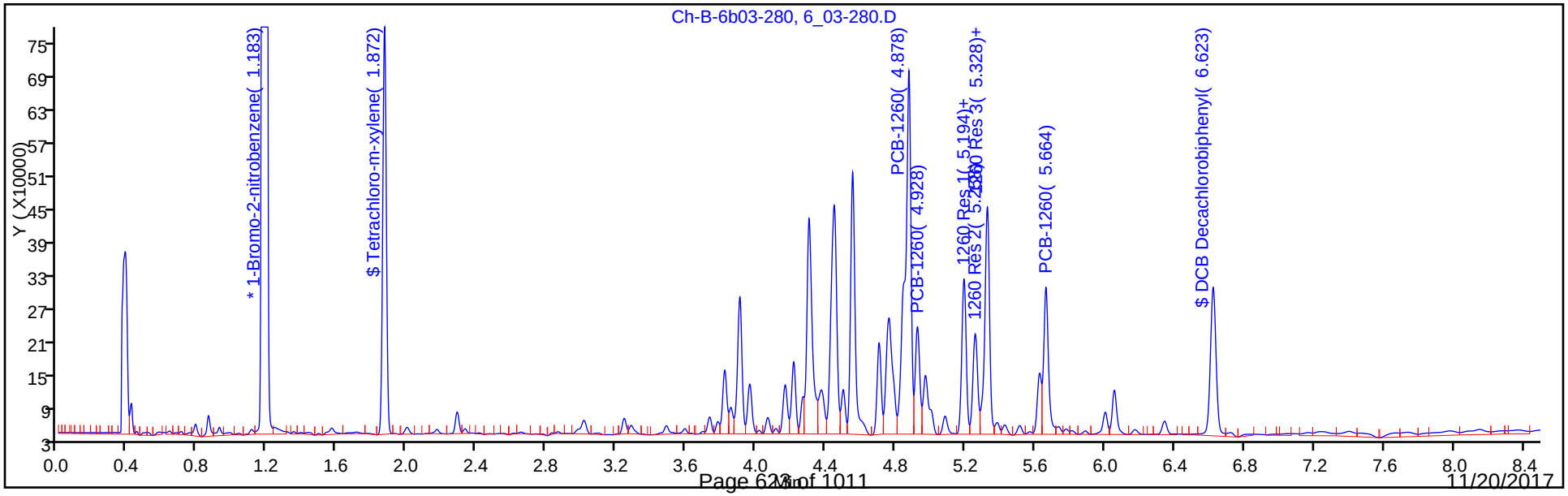
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-280.D

Injection Date:	10-Nov-2017 15:06:25	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-1-B	Lab Sample ID:	480-127239-1	Worklist Smp#:	18
Client ID:	NS-NORTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 0-2" | Lab Sample ID: 480-127239-1

Matrix: Solid | Lab File ID: 6_03-280.D

Analysis Method: 8082A | Date Collected: 11/07/2017 13:10

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.42(g) | Date Analyzed: 11/10/2017 15:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 25.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	106		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-280.D
Lims ID: 480-127239-A-1-B
Client ID: NS-NORTH-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 15:06:25 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:31:58 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:31:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.186	1.186	0.000	19664382	0.5000	
2	1.183	1.183	0.000	19487419	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.183	2.183	0.001	1028415	0.0242	
2	1.872	1.869	0.003	1072120	0.0212	
					RPD = 13.21	
11 PCB-1260						
1	4.663	4.660	0.003	749100	0.3963	
1	4.846	4.843	0.003	669852	0.3199	
1	5.078	5.077	0.001	1157098	0.4064	
1	5.603	5.601	0.002	617268	0.2103	
1	5.844	5.843	0.002	372448	0.2361	
		Average of Peak Amounts =			0.3138	
2	4.878	4.877	0.001	1594709	0.7458	
2	4.928	4.925	0.003	353691	0.2962	
2	5.194	5.190	0.004	503966	0.3536	
2	5.328	5.326	0.002	806123	0.2439	
2	5.664	5.663	0.002	517697	0.2587	
		Average of Peak Amounts =			0.3796	
					RPD = 18.98	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.844	5.843	0.002	372448	NR	
2	5.194	5.190	0.004	503966	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.001	100769	NR	
2	5.258	5.257	0.001	357570	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.948	5.945	0.003	116489	NR	
2	5.328	5.326	0.002	806123	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.990	6.987	0.003	468941	0.0197	
2	6.623	6.620	0.003	628449	0.0251	
					RPD = 24.20	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

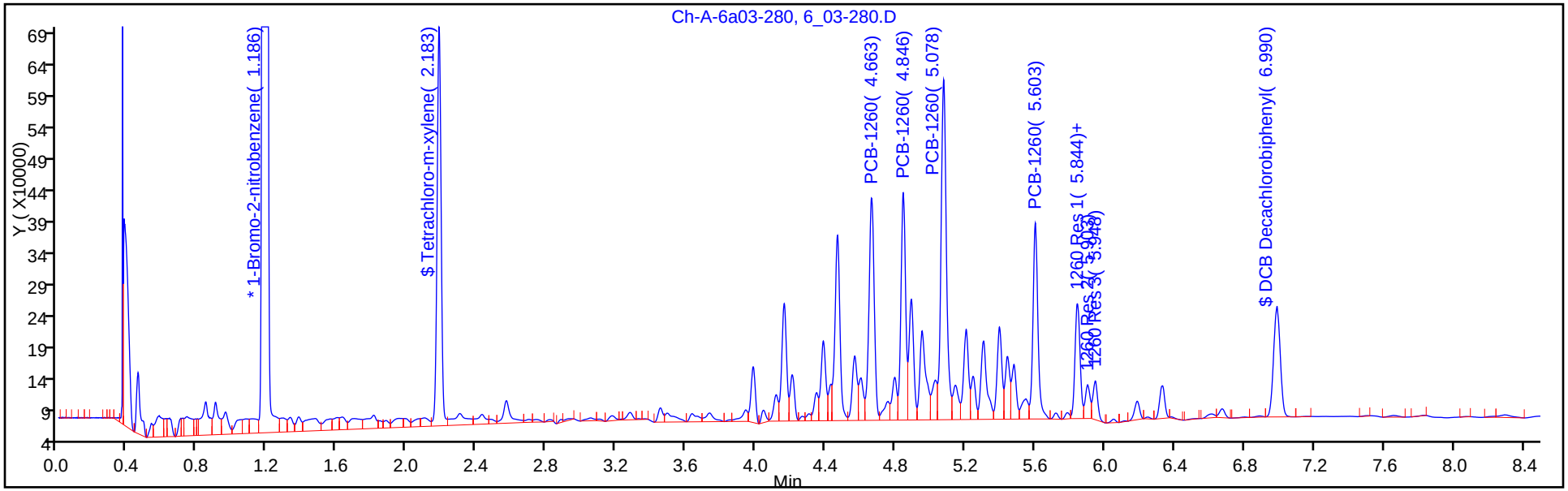
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TestAmerica Buffalo

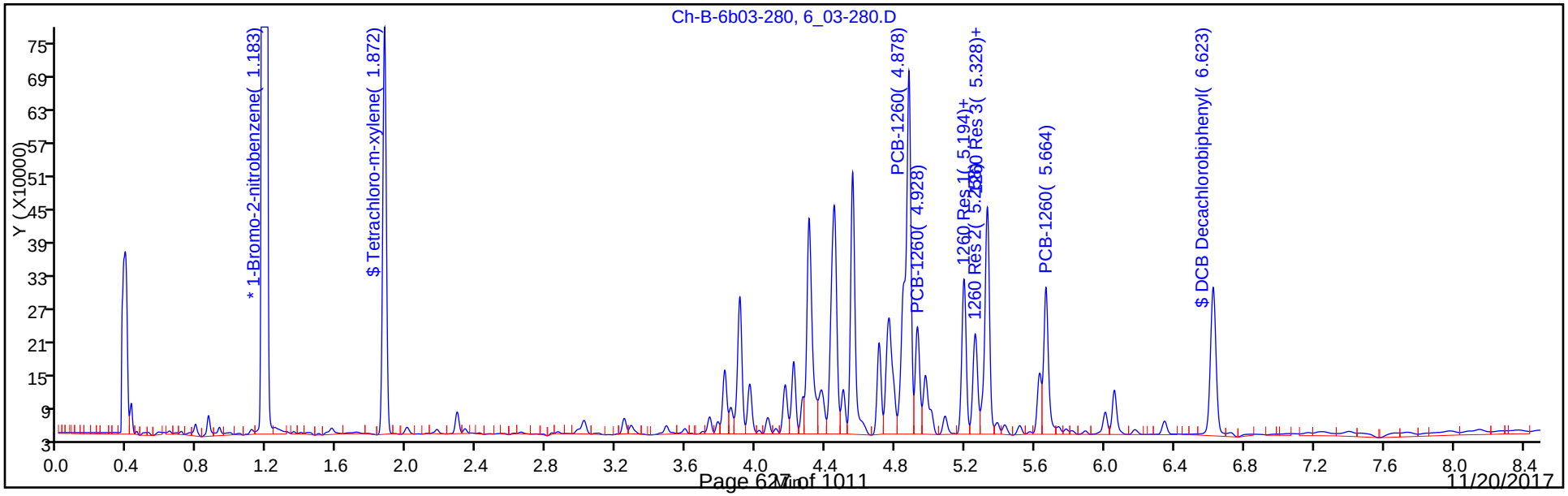
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-280.D

Injection Date:	10-Nov-2017 15:06:25	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-1-B	Lab Sample ID:	480-127239-1	Worklist Smp#:	18
Client ID:	NS-NORTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 0-2" | Lab Sample ID: 480-127239-2

Matrix: Solid | Lab File ID: 6_03-281.D

Analysis Method: 8082A | Date Collected: 11/07/2017 13:50

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.33(g) | Date Analyzed: 11/10/2017 15:22

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 33.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.32	0.063
11104-28-2	PCB-1221	ND		0.32	0.063
11141-16-5	PCB-1232	ND		0.32	0.063
53469-21-9	PCB-1242	ND		0.32	0.063
12672-29-6	PCB-1248	ND		0.32	0.063
11097-69-1	PCB-1254	0.78		0.32	0.15
11096-82-5	PCB-1260	0.64		0.32	0.15
37324-23-5	PCB-1262	ND		0.32	0.15
11100-14-4	PCB-1268	ND		0.32	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		60-154
2051-24-3	DCB Decachlorobiphenyl	89		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-281.D
Lims ID: 480-127239-A-2-B
Client ID: NS-EAST-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 15:22:17 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:36:27 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:36:27

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.187	1.186	0.001	20957285	0.5000	
2	1.184	1.183	0.001	21962029	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	905438	0.0200	
2	1.872	1.869	0.003	964182	0.0169	
					RPD = 16.65	
8 PCB-1254						
1	4.163	4.162	0.001	288773	0.1086	
1	4.469	4.468	0.001	361676	0.1097	
1	4.666	4.668	-0.002	303585	0.0895	
1	4.893	4.893	0.000	148430	0.1237	
1	5.078	5.078	0.000	355273	0.1714	
		Average of Peak Amounts =			0.1206	
2	3.908	3.907	0.001	328579	0.1527	
2	4.218	4.216	0.002	145304	0.0979	
2	4.306	4.303	0.003	473267	0.1499	
2	4.449	4.434	0.015	404375	0.1263	
2	4.878	4.877	0.001	503986	0.1888	
		Average of Peak Amounts =			0.1431	
					RPD = 17.10	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1260						
1	4.666	4.660	0.006	303585	0.1507	
1	4.846	4.843	0.003	217102	0.0973	
1	5.078	5.077	0.001	355273	0.1171	
1	5.603	5.601	0.001	196695	0.0629	
1	5.845	5.843	0.003	115076	0.0684	
		Average of Peak Amounts =			0.0993	
2	4.878	4.877	0.001	503986	0.2091	
2	4.928	4.925	0.003	111192	0.0826	
2	5.195	5.190	0.005	138168	0.0860	
2	5.328	5.326	0.002	236025	0.0634	
2	5.664	5.663	0.002	147407	0.0654	
		Average of Peak Amounts =			0.1013	
					RPD = 2.01	
9 1260 Res 1						
1	5.845	5.843	0.003	115076	NR	
2	5.195	5.190	0.005	138168	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.000	35222	NR	
2	5.259	5.257	0.002	108158	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.946	5.945	0.001	39812	NR	
2	5.328	5.326	0.002	236025	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.991	6.987	0.004	450115	0.0177	
2	6.623	6.620	0.003	562338	0.0198	
					RPD = 11.12	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

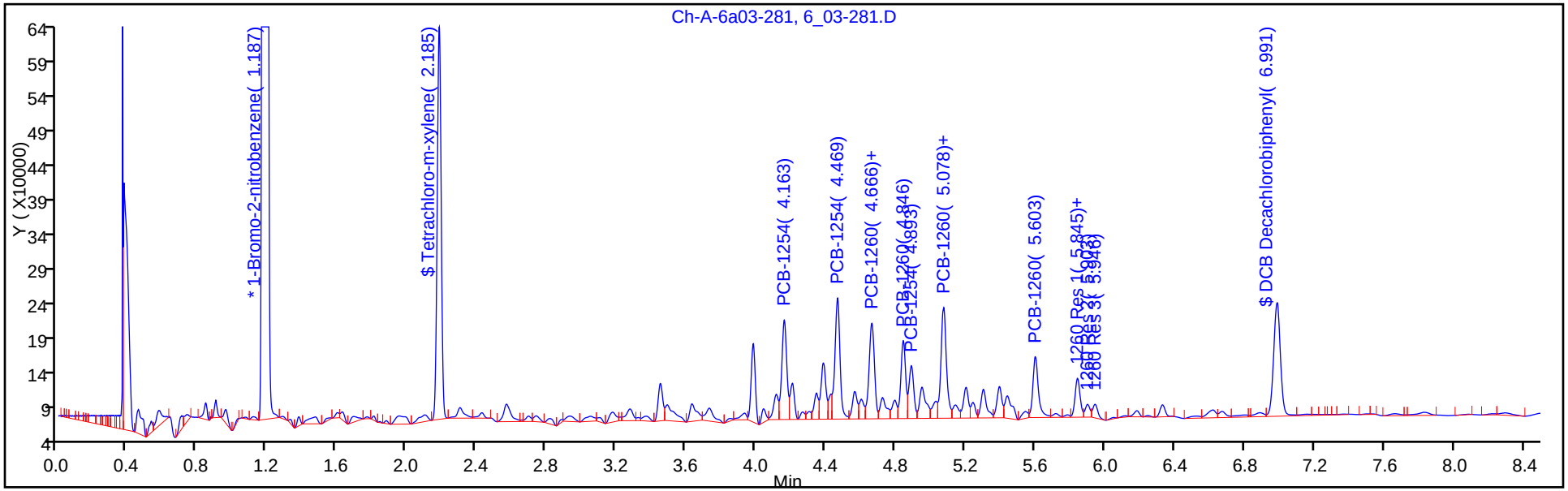
Report Date: 10-Nov-2017 15:36:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

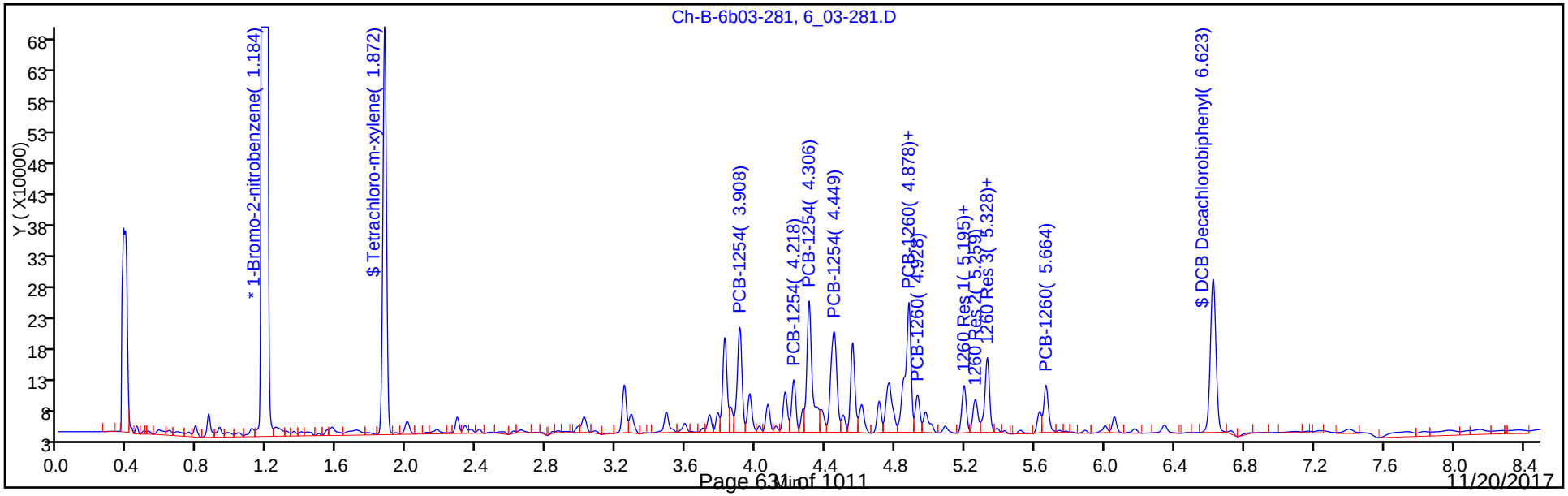
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Injection Date:	10-Nov-2017 15:22:17	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-2-B	Lab Sample ID:	480-127239-2	Worklist Smp#:	19
Client ID:	NS-EAST-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 0-2" | Lab Sample ID: 480-127239-2

Matrix: Solid | Lab File ID: 6_03-281.D

Analysis Method: 8082A | Date Collected: 11/07/2017 13:50

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.33(g) | Date Analyzed: 11/10/2017 15:22

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 33.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	84		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-281.D
Lims ID: 480-127239-A-2-B
Client ID: NS-EAST-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 15:22:17 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:36:27 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:36:27

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.187	1.186	0.001	20957285	0.5000	
2	1.184	1.183	0.001	21962029	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	905438	0.0200	
2	1.872	1.869	0.003	964182	0.0169	
					RPD = 16.65	
8 PCB-1254						
1	4.163	4.162	0.001	288773	0.1086	
1	4.469	4.468	0.001	361676	0.1097	
1	4.666	4.668	-0.002	303585	0.0895	
1	4.893	4.893	0.000	148430	0.1237	
1	5.078	5.078	0.000	355273	0.1714	
		Average of Peak Amounts =			0.1206	
2	3.908	3.907	0.001	328579	0.1527	
2	4.218	4.216	0.002	145304	0.0979	
2	4.306	4.303	0.003	473267	0.1499	
2	4.449	4.434	0.015	404375	0.1263	
2	4.878	4.877	0.001	503986	0.1888	
		Average of Peak Amounts =			0.1431	
					RPD = 17.10	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1260						
1	4.666	4.660	0.006	303585	0.1507	
1	4.846	4.843	0.003	217102	0.0973	
1	5.078	5.077	0.001	355273	0.1171	
1	5.603	5.601	0.001	196695	0.0629	
1	5.845	5.843	0.003	115076	0.0684	
		Average of Peak Amounts =			0.0993	
2	4.878	4.877	0.001	503986	0.2091	
2	4.928	4.925	0.003	111192	0.0826	
2	5.195	5.190	0.005	138168	0.0860	
2	5.328	5.326	0.002	236025	0.0634	
2	5.664	5.663	0.002	147407	0.0654	
		Average of Peak Amounts =			0.1013	
					RPD = 2.01	
9 1260 Res 1						
1	5.845	5.843	0.003	115076	NR	
2	5.195	5.190	0.005	138168	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.000	35222	NR	
2	5.259	5.257	0.002	108158	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.946	5.945	0.001	39812	NR	
2	5.328	5.326	0.002	236025	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.991	6.987	0.004	450115	0.0177	
2	6.623	6.620	0.003	562338	0.0198	
					RPD = 11.12	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

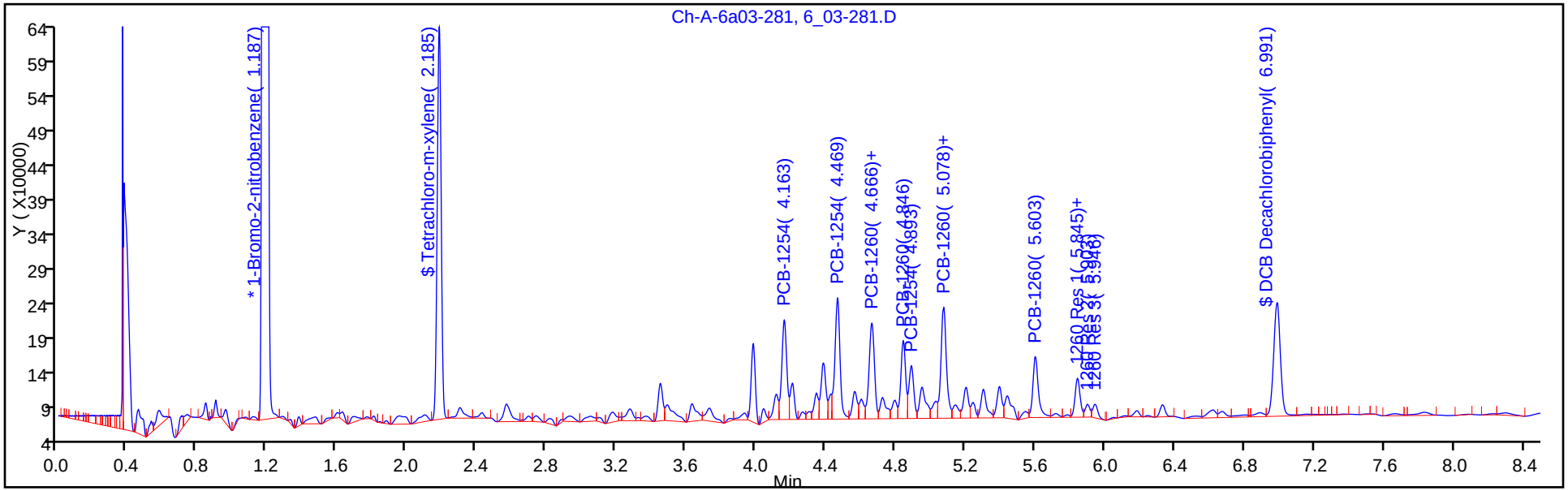
PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

Report Date: 10-Nov-2017 15:36:29 Chrom Revision: 2.2 16-Aug-2017 16:24:46

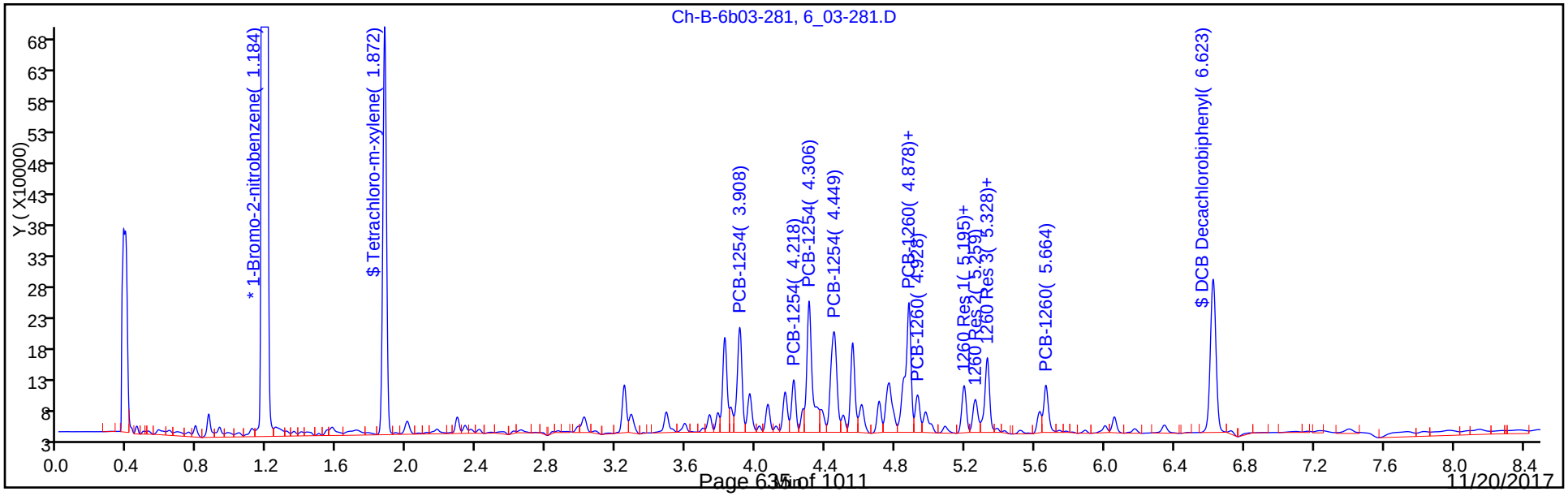
TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-281.D				
Injection Date:	10-Nov-2017 15:22:17	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-2-B	Lab Sample ID:	480-127239-2	Worklist Smp#:	19
Client ID:	NS-EAST-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" | Lab Sample ID: 480-127239-3

Matrix: Solid | Lab File ID: 6_03-278.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.50(g) | Date Analyzed: 11/10/2017 14:34

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	0.60		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		60-154
2051-24-3	DCB Decachlorobiphenyl	76		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-278.D
Lims ID: 480-127239-A-3-F
Client ID: NS-SOUTH-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 14:34:30 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:14:11 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 15:14:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.188	1.186	0.002	23462371	0.5000	
2	1.185	1.183	0.002	23842903	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	962424	0.0189	
2	1.872	1.869	0.003	989314	0.0160	
					RPD = 17.11	
11 PCB-1260						
1	4.666	4.660	0.006	341942	0.1516	
1	4.845	4.843	0.002	278324	0.1114	
1	5.078	5.077	0.001	494629	0.1456	
1	5.603	5.601	0.002	227314	0.0649	
1	5.844	5.843	0.002	145751	0.0774	
		Average of Peak Amounts =			0.1102	
2	4.878	4.877	0.001	702545	0.2685	
2	4.928	4.925	0.003	112297	0.0769	
2	5.197	5.190	0.007	194645	0.1116	
2	5.328	5.326	0.002	300625	0.0743	
2	5.664	5.663	0.002	190035	0.0776	
		Average of Peak Amounts =			0.1218	
					RPD = 10.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.844	5.843	0.002	145751	NR	
2	5.197	5.190	0.007	194645	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.001	30744	NR	
2	5.258	5.257	0.001	140772	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.947	5.945	0.002	37517	NR	
2	5.328	5.326	0.002	300625	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.988	6.987	0.001	429950	0.0151	
2	6.623	6.620	0.003	558102	0.0180	
					RPD = 17.72	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

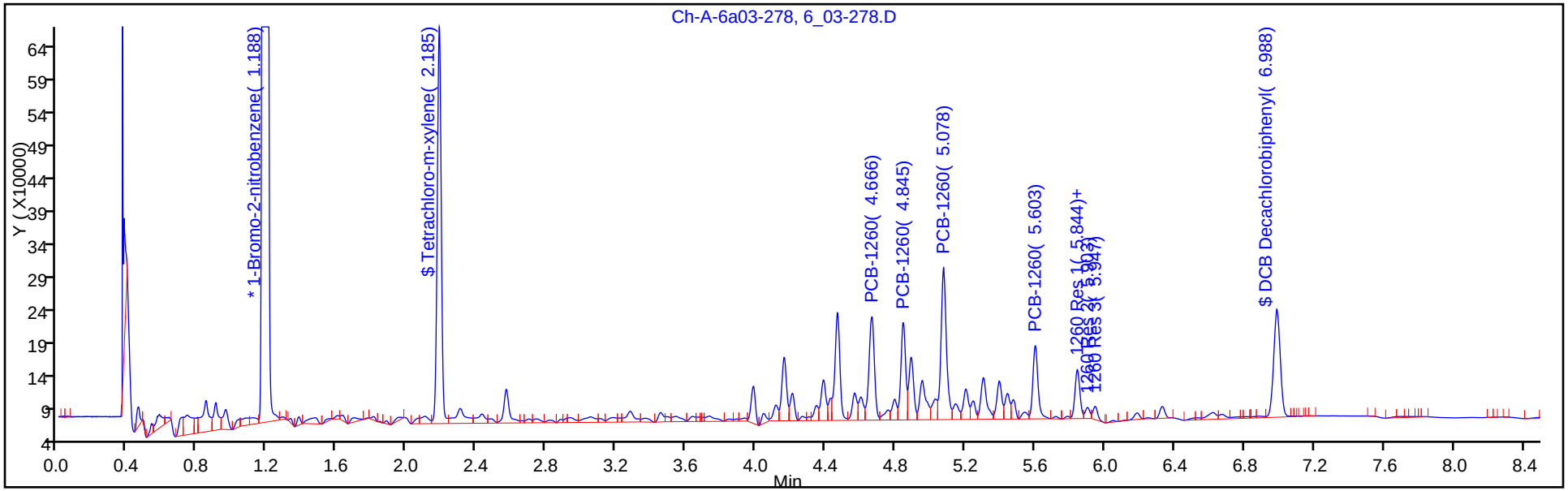
Report Date: 10-Nov-2017 15:14:11 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

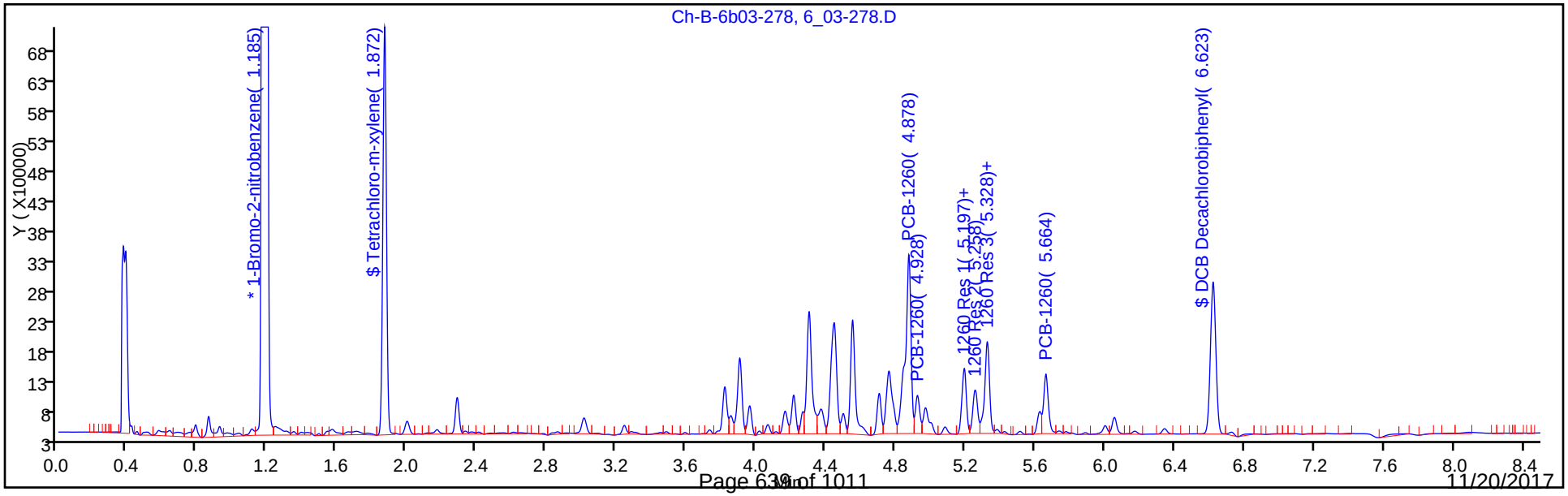
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-278.D

Injection Date:	10-Nov-2017 14:34:30	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-3-F	Lab Sample ID:	480-127239-3	Worklist Smp#:	16
Client ID:	NS-SOUTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" | Lab Sample ID: 480-127239-3

Matrix: Solid | Lab File ID: 6_03-278.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.50(g) | Date Analyzed: 11/10/2017 14:34

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	80		60-154
2051-24-3	DCB Decachlorobiphenyl	90		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-278.D
Lims ID: 480-127239-A-3-F
Client ID: NS-SOUTH-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 14:34:30 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:14:11 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 15:14:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.188	1.186	0.002	23462371	0.5000	
2	1.185	1.183	0.002	23842903	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	962424	0.0189	
2	1.872	1.869	0.003	989314	0.0160	
					RPD = 17.11	
11 PCB-1260						
1	4.666	4.660	0.006	341942	0.1516	
1	4.845	4.843	0.002	278324	0.1114	
1	5.078	5.077	0.001	494629	0.1456	
1	5.603	5.601	0.002	227314	0.0649	
1	5.844	5.843	0.002	145751	0.0774	
		Average of Peak Amounts =			0.1102	
2	4.878	4.877	0.001	702545	0.2685	
2	4.928	4.925	0.003	112297	0.0769	
2	5.197	5.190	0.007	194645	0.1116	
2	5.328	5.326	0.002	300625	0.0743	
2	5.664	5.663	0.002	190035	0.0776	
		Average of Peak Amounts =			0.1218	
					RPD = 10.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.844	5.843	0.002	145751	NR	
2	5.197	5.190	0.007	194645	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.001	30744	NR	
2	5.258	5.257	0.001	140772	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.947	5.945	0.002	37517	NR	
2	5.328	5.326	0.002	300625	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.988	6.987	0.001	429950	0.0151	
2	6.623	6.620	0.003	558102	0.0180	
					RPD = 17.72	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

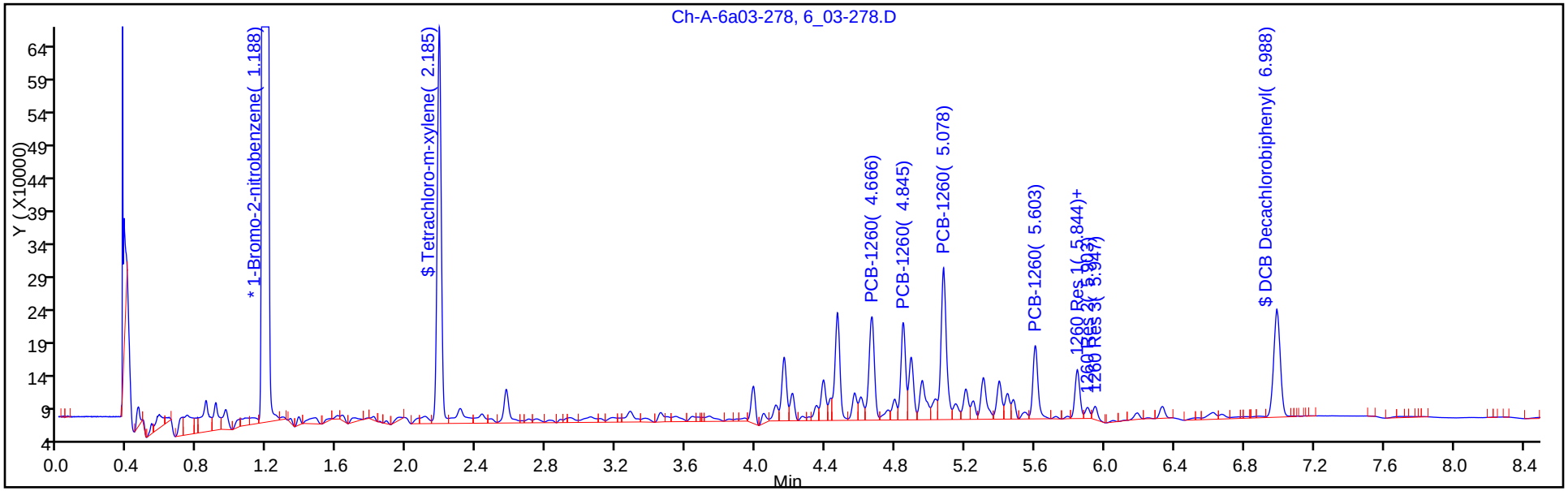
Report Date: 10-Nov-2017 15:14:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

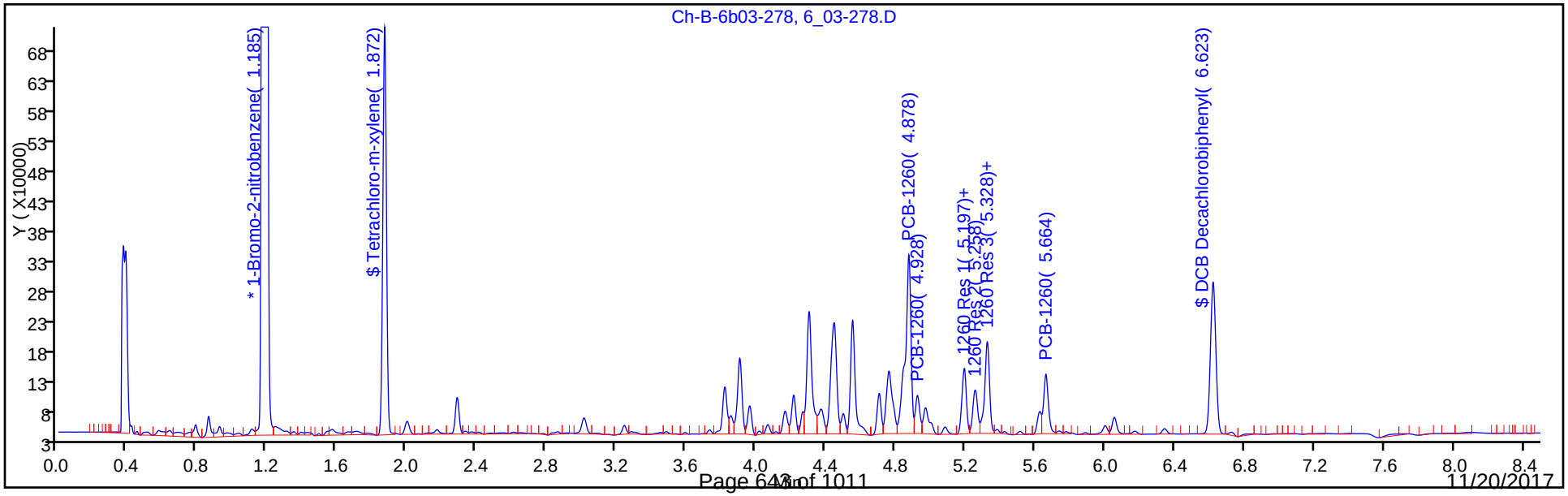
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-278.D

Injection Date:	10-Nov-2017 14:34:30	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-3-F	Lab Sample ID:	480-127239-3	Worklist Smp#:	16
Client ID:	NS-SOUTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 0-2" | Lab Sample ID: 480-127239-4

Matrix: Solid | Lab File ID: 6_03-282.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:50

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.15(g) | Date Analyzed: 11/10/2017 15:38

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 22.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.30	0.059
11104-28-2	PCB-1221	ND		0.30	0.059
11141-16-5	PCB-1232	ND		0.30	0.059
53469-21-9	PCB-1242	ND		0.30	0.059
12672-29-6	PCB-1248	ND		0.30	0.059
11097-69-1	PCB-1254	4.7		0.30	0.14
11096-82-5	PCB-1260	3.5		0.30	0.14
37324-23-5	PCB-1262	ND		0.30	0.14
11100-14-4	PCB-1268	ND		0.30	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	124		60-154
2051-24-3	DCB Decachlorobiphenyl	98		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-282.D
Lims ID: 480-127239-A-4-B
Client ID: NS-WEST-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 15:38:13 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:53:40 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:53:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.188	1.186	0.002	18927248	0.5000	
2	1.185	1.183	0.002	19626726	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	1012847	0.0247	
2	1.872	1.869	0.003	1048655	0.0205	
					RPD = 18.40	
8 PCB-1254						
1	4.164	4.162	0.002	1596470	0.6647	
1	4.469	4.468	0.001	1992081	0.6691	
1	4.668	4.668	0.000	1953455	0.6375	
1	4.893	4.893	0.001	953506	0.8801	
1	5.077	5.078	-0.001	1930403	1.03	
		Average of Peak Amounts =			0.7765	
2	3.909	3.907	0.002	1808922	0.9406	
2	4.218	4.216	0.002	1096399	0.8269	
2	4.306	4.303	0.003	2582034	0.9150	
2	4.444	4.434	0.010	2554076	0.8926	
2	4.879	4.877	0.002	2664468	1.12	
		Average of Peak Amounts =			0.9385	
					RPD = 18.89	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1260						
1	4.668	4.660	0.008	1953455	1.07	
1	4.846	4.843	0.003	1114860	0.5531	
1	5.077	5.077	0.000	1930403	0.7044	
1	5.603	5.601	0.001	816202	0.2889	
1	5.843	5.843	0.001	469119	0.3089	
		Average of Peak Amounts =			0.5858	
2	4.879	4.877	0.002	2664468	1.24	
2	4.927	4.925	0.002	384833	0.3200	
2	5.195	5.190	0.005	686660	0.4783	
2	5.328	5.326	0.002	1051244	0.3158	
2	5.664	5.663	0.002	628812	0.3120	
		Average of Peak Amounts =			0.5327	
					RPD = 9.51	
9 1260 Res 1						
1	5.843	5.843	0.001	469119	NR	
2	5.195	5.190	0.005	686660	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.001	114331	NR	
2	5.261	5.257	0.004	477421	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.947	5.945	0.002	149317	NR	
2	5.328	5.326	0.002	1051244	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.988	6.987	0.001	450868	0.0196	
2	6.623	6.620	0.003	583339	0.0231	
					RPD = 16.05	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

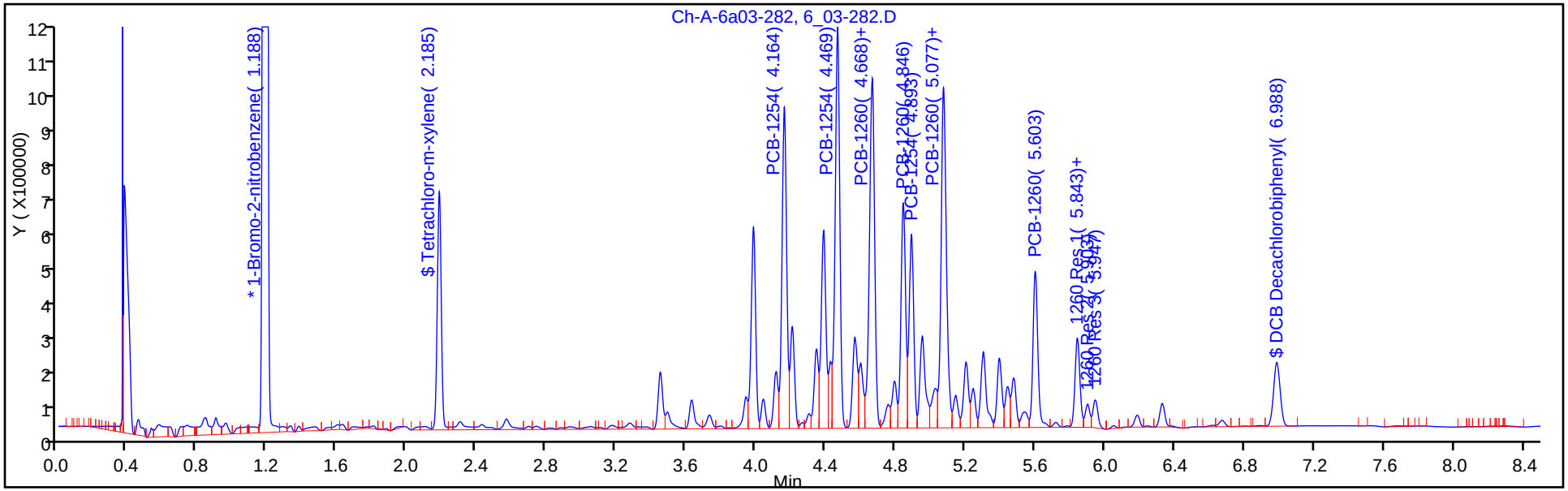
PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

Report Date: 10-Nov-2017 15:53:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

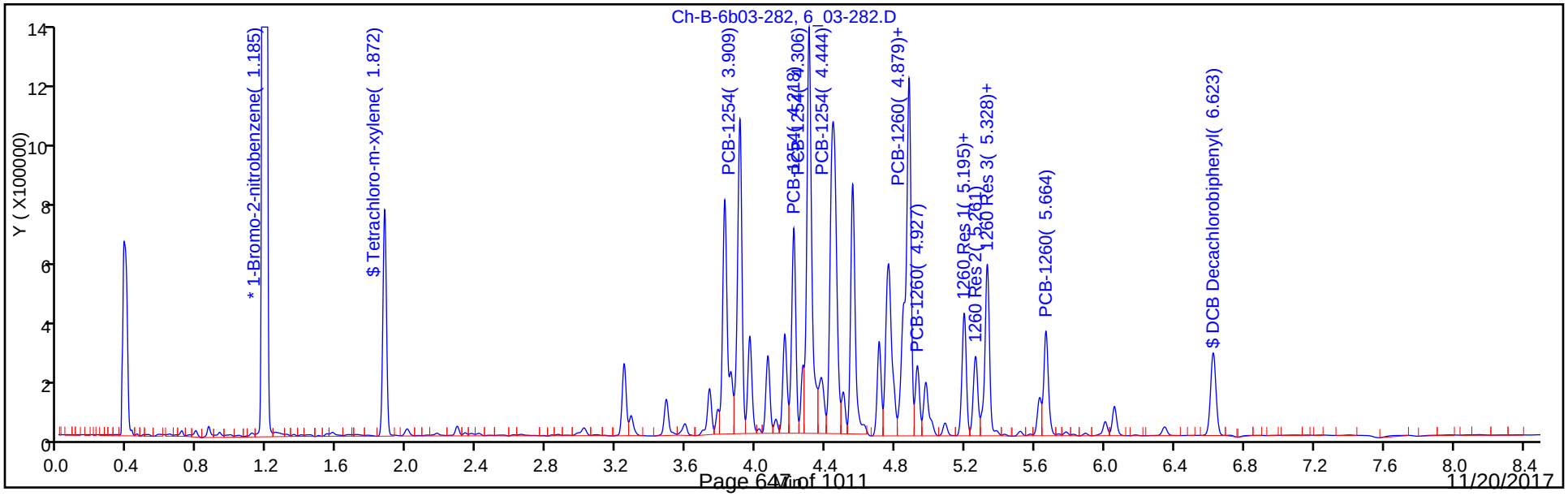
TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-282.D				
Injection Date:	10-Nov-2017 15:38:13	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-4-B	Lab Sample ID:	480-127239-4	Worklist Smp#:	20
Client ID:	NS-WEST-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 0-2" Lab Sample ID: 480-127239-4

Matrix: Solid Lab File ID: 6_03-282.D

Analysis Method: 8082A Date Collected: 11/07/2017 14:50

Extraction Method: 3550C Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.15(g) Date Analyzed: 11/10/2017 15:38

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 22.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	103		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-282.D
Lims ID: 480-127239-A-4-B
Client ID: NS-WEST-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 15:38:13 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:53:40 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:53:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.188	1.186	0.002	18927248	0.5000	
2	1.185	1.183	0.002	19626726	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	1012847	0.0247	
2	1.872	1.869	0.003	1048655	0.0205	
					RPD = 18.40	
8 PCB-1254						
1	4.164	4.162	0.002	1596470	0.6647	
1	4.469	4.468	0.001	1992081	0.6691	
1	4.668	4.668	0.000	1953455	0.6375	
1	4.893	4.893	0.001	953506	0.8801	
1	5.077	5.078	-0.001	1930403	1.03	
		Average of Peak Amounts =			0.7765	
2	3.909	3.907	0.002	1808922	0.9406	
2	4.218	4.216	0.002	1096399	0.8269	
2	4.306	4.303	0.003	2582034	0.9150	
2	4.444	4.434	0.010	2554076	0.8926	
2	4.879	4.877	0.002	2664468	1.12	
		Average of Peak Amounts =			0.9385	
					RPD = 18.89	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1260						
1	4.668	4.660	0.008	1953455	1.07	
1	4.846	4.843	0.003	1114860	0.5531	
1	5.077	5.077	0.000	1930403	0.7044	
1	5.603	5.601	0.001	816202	0.2889	
1	5.843	5.843	0.001	469119	0.3089	
		Average of Peak Amounts =			0.5858	
2	4.879	4.877	0.002	2664468	1.24	
2	4.927	4.925	0.002	384833	0.3200	
2	5.195	5.190	0.005	686660	0.4783	
2	5.328	5.326	0.002	1051244	0.3158	
2	5.664	5.663	0.002	628812	0.3120	
		Average of Peak Amounts =			0.5327	
					RPD = 9.51	
9 1260 Res 1						
1	5.843	5.843	0.001	469119	NR	
2	5.195	5.190	0.005	686660	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.001	114331	NR	
2	5.261	5.257	0.004	477421	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.947	5.945	0.002	149317	NR	
2	5.328	5.326	0.002	1051244	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.988	6.987	0.001	450868	0.0196	
2	6.623	6.620	0.003	583339	0.0231	
					RPD = 16.05	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

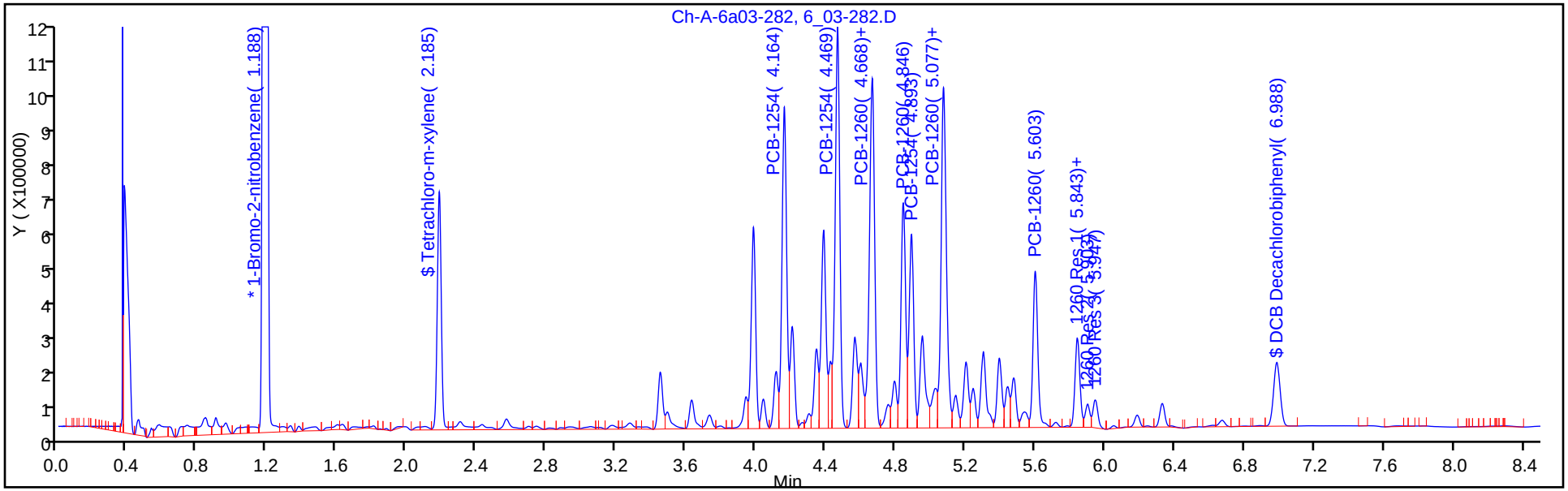
PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

Report Date: 10-Nov-2017 15:53:42 Chrom Revision: 2.2 16-Aug-2017 16:24:46

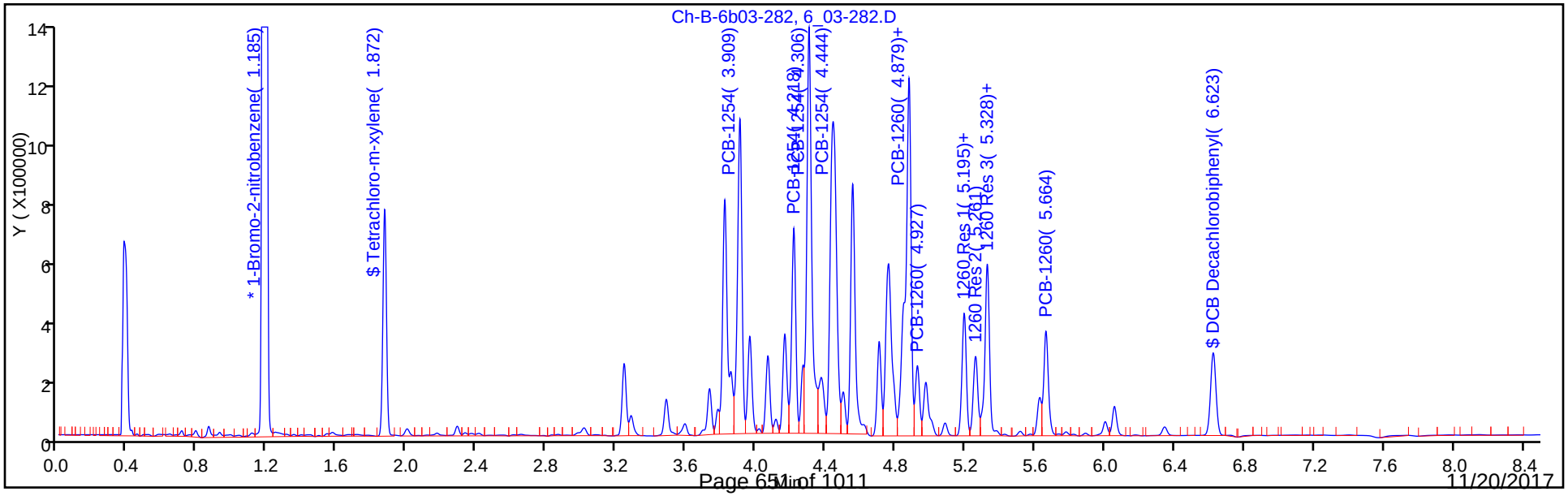
TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-282.D				
Injection Date:	10-Nov-2017 15:38:13	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-4-B	Lab Sample ID:	480-127239-4	Worklist Smp#:	20
Client ID:	NS-WEST-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 0-2" | Lab Sample ID: 480-127239-5

Matrix: Solid | Lab File ID: 6_03-283.D

Analysis Method: 8082A | Date Collected: 11/07/2017 15:20

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.61(g) | Date Analyzed: 11/10/2017 15:54

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	ND		0.23	0.046
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	4.2		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		60-154
2051-24-3	DCB Decachlorobiphenyl	89		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-283.D
Lims ID: 480-127239-A-5-B
Client ID: NS-SBN-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 15:54:12 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 16:14:22 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 16:14:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.187	1.186	0.001	21397421	0.5000	
2	1.184	1.183	0.001	21700260	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	1023703	0.0221	
2	1.871	1.869	0.002	1119617	0.0198	
					RPD = 10.73	
11 PCB-1260						
1	4.663	4.660	0.002	2076709	1.01	
1	4.846	4.843	0.003	2097216	0.9204	
1	5.077	5.077	0.000	3066621	0.9898	
1	5.604	5.601	0.003	2466320	0.7723	
1	5.843	5.843	0.001	1395250	0.8127	
		Average of Peak Amounts =			0.9010	
2	4.878	4.877	0.001	2700590	1.13	
2	4.927	4.925	0.002	1153871	0.8678	
2	5.193	5.190	0.003	1423634	0.8969	
2	5.328	5.326	0.002	3084571	0.8380	
2	5.664	5.663	0.002	1908512	0.8564	
		Average of Peak Amounts =			0.9187	
					RPD = 1.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.843	5.843	0.001	1395250	NR	
2	5.193	5.190	0.003	1423634	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.000	296907	NR	
2	5.258	5.257	0.001	1093521	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.946	5.945	0.001	405015	NR	
2	5.328	5.326	0.002	3084571	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.986	6.987	-0.001	464222	0.0179	
2	6.623	6.620	0.003	616094	0.0220	
					RPD = 20.66	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

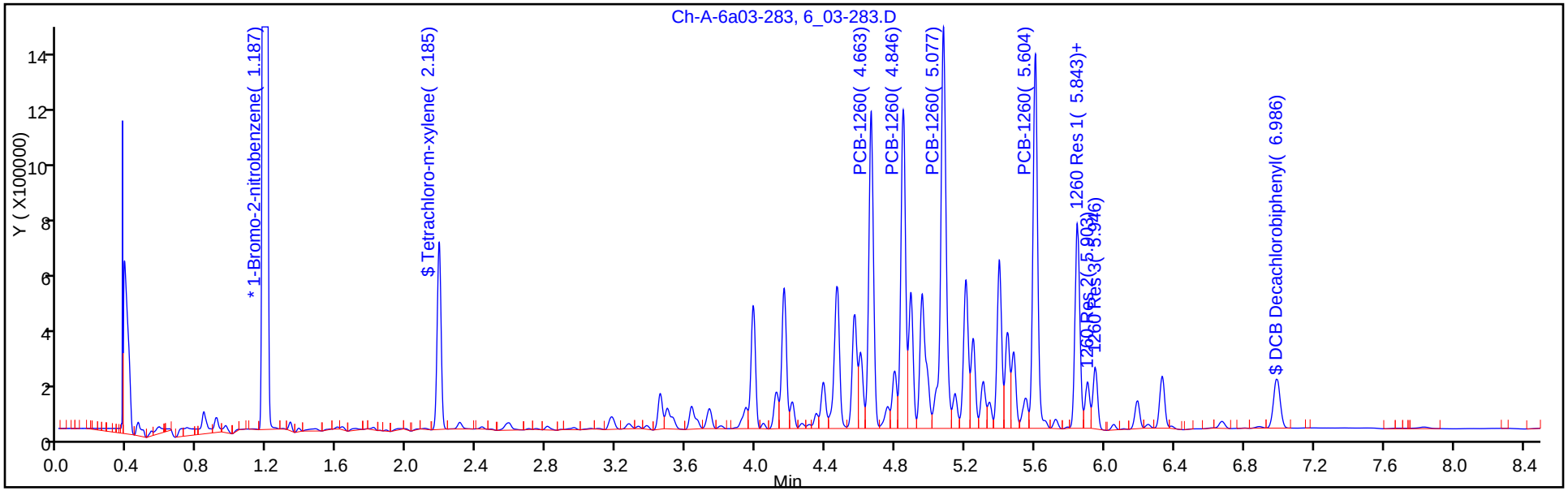
Report Date: 10-Nov-2017 16:14:23 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

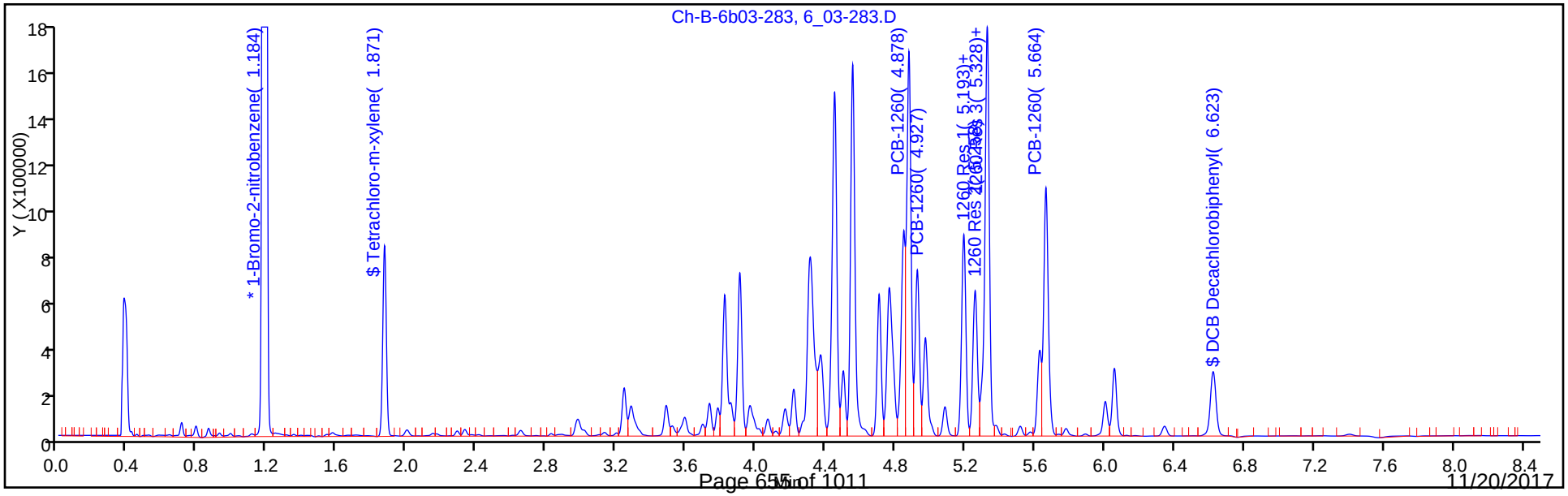
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Injection Date:	10-Nov-2017 15:54:12	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-5-B	Lab Sample ID:	480-127239-5	Worklist Smp#:	21
Client ID:	NS-SBN-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 0-2" Lab Sample ID: 480-127239-5

Matrix: Solid Lab File ID: 6_03-283.D

Analysis Method: 8082A Date Collected: 11/07/2017 15:20

Extraction Method: 3550C Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.61(g) Date Analyzed: 11/10/2017 15:54

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		60-154
2051-24-3	DCB Decachlorobiphenyl	110		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-283.D
Lims ID: 480-127239-A-5-B
Client ID: NS-SBN-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 15:54:12 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 16:14:22 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 16:14:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.187	1.186	0.001	21397421	0.5000	
2	1.184	1.183	0.001	21700260	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	1023703	0.0221	
2	1.871	1.869	0.002	1119617	0.0198	
					RPD = 10.73	
11 PCB-1260						
1	4.663	4.660	0.002	2076709	1.01	
1	4.846	4.843	0.003	2097216	0.9204	
1	5.077	5.077	0.000	3066621	0.9898	
1	5.604	5.601	0.003	2466320	0.7723	
1	5.843	5.843	0.001	1395250	0.8127	
		Average of Peak Amounts =			0.9010	
2	4.878	4.877	0.001	2700590	1.13	
2	4.927	4.925	0.002	1153871	0.8678	
2	5.193	5.190	0.003	1423634	0.8969	
2	5.328	5.326	0.002	3084571	0.8380	
2	5.664	5.663	0.002	1908512	0.8564	
		Average of Peak Amounts =			0.9187	
					RPD = 1.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.843	5.843	0.001	1395250	NR	
2	5.193	5.190	0.003	1423634	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.000	296907	NR	
2	5.258	5.257	0.001	1093521	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.946	5.945	0.001	405015	NR	
2	5.328	5.326	0.002	3084571	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.986	6.987	-0.001	464222	0.0179	
2	6.623	6.620	0.003	616094	0.0220	
					RPD = 20.66	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

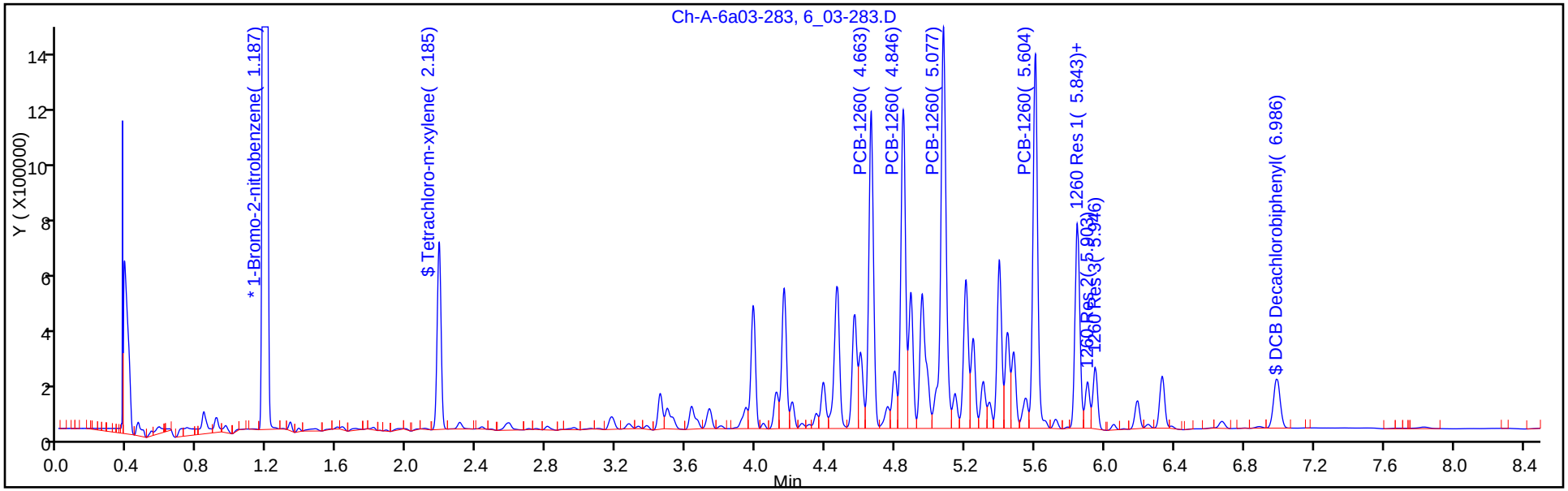
Report Date: 10-Nov-2017 16:14:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

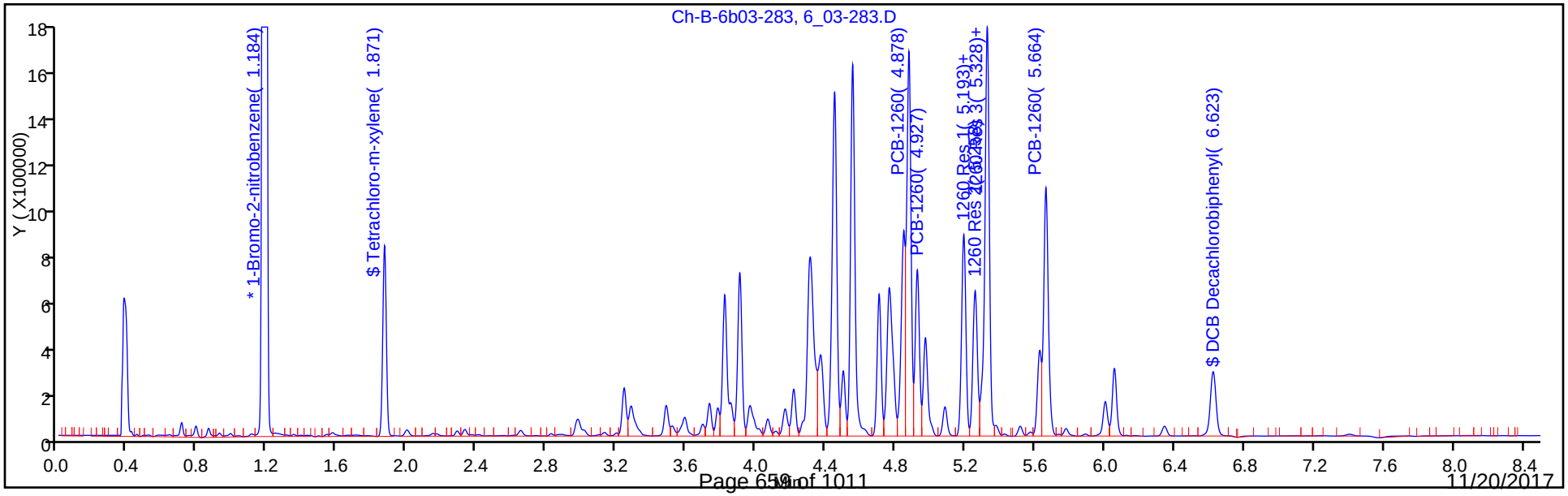
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-283.D

Injection Date:	10-Nov-2017 15:54:12	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-5-B	Lab Sample ID:	480-127239-5	Worklist Smp#:	21
Client ID:	NS-SBN-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 0-2" | Lab Sample ID: 480-127239-6

Matrix: Solid | Lab File ID: 6_03-284.D

Analysis Method: 8082A | Date Collected: 11/07/2017 00:00

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.22(g) | Date Analyzed: 11/10/2017 16:10

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.30	0.059
11104-28-2	PCB-1221	ND		0.30	0.059
11141-16-5	PCB-1232	ND		0.30	0.059
53469-21-9	PCB-1242	ND		0.30	0.059
12672-29-6	PCB-1248	ND		0.30	0.059
11097-69-1	PCB-1254	ND		0.30	0.14
11096-82-5	PCB-1260	1.2		0.30	0.14
37324-23-5	PCB-1262	ND		0.30	0.14
11100-14-4	PCB-1268	ND		0.30	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		60-154
2051-24-3	DCB Decachlorobiphenyl	104		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-284.D
Lims ID: 480-127239-A-6-B
Client ID: NS-DUP-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 16:10:03 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 16:24:48 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 16:24:48

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.187	1.186	0.001	22481576	0.5000	
2	1.185	1.183	0.002	23892752	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						M
1	2.184	2.183	0.002	944216	0.0194	M
2	1.873	1.869	0.003	923429	0.0149	
					RPD = 26.45	
11 PCB-1260						M
1	4.663	4.660	0.002	480270	0.2223	M
1	4.846	4.843	0.003	485736	0.2029	M
1	5.078	5.077	0.001	703058	0.2160	M
1	5.603	5.601	0.002	562961	0.1678	M
1	5.844	5.843	0.002	330258	0.1831	M
		Average of Peak Amounts =			0.1984	
2	4.880	4.877	0.003	1033546	0.3942	M
2	4.928	4.925	0.003	256485	0.1752	M
2	5.195	5.190	0.005	287094	0.1643	M
2	5.329	5.326	0.003	662382	0.1634	M
2	5.665	5.663	0.003	426343	0.1737	M
		Average of Peak Amounts =			0.2142	
					RPD = 7.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						M
1	5.844	5.843	0.002	330258	NR	M
2	5.195	5.190	0.005	287094	NR	M
					RPD = NaN	
14 1260 Res 2						M
1	5.903	5.902	0.001	101155	NR	M
2	5.259	5.257	0.002	262040	NR	M
					RPD = NaN	
12 1260 Res 3						M
1	5.946	5.945	0.001	111607	NR	M
2	5.329	5.326	0.003	662382	NR	M
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						M
1	6.989	6.987	0.002	567438	0.0208	
2	6.624	6.620	0.004	731932	0.0238	M
					RPD = 13.37	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

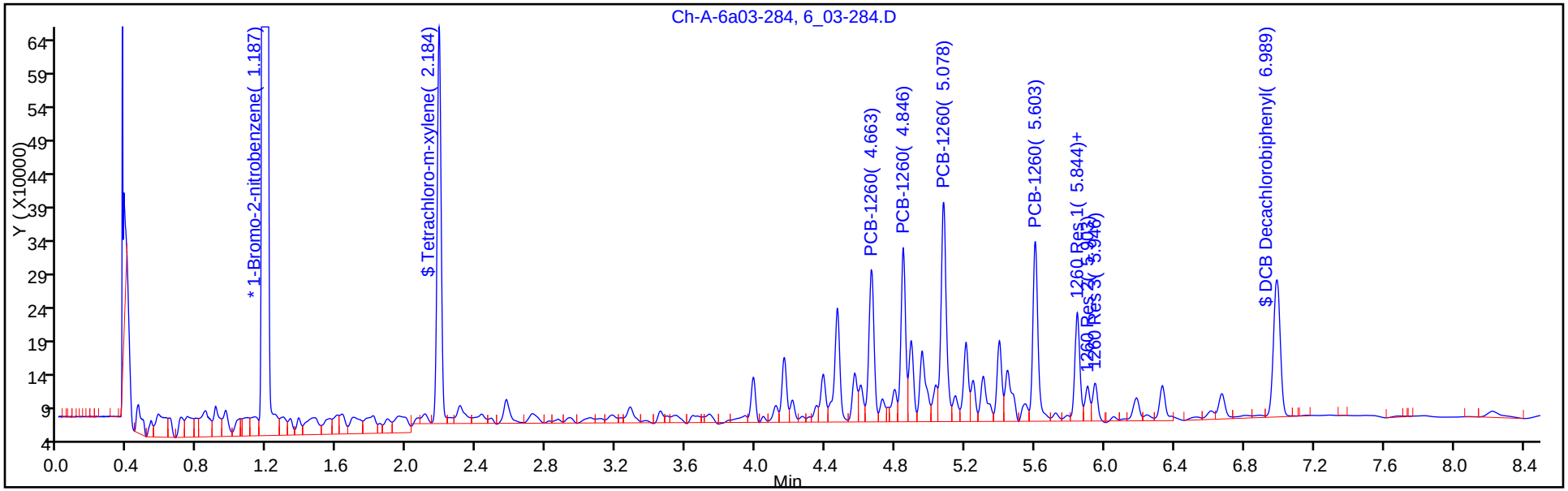
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TestAmerica Buffalo

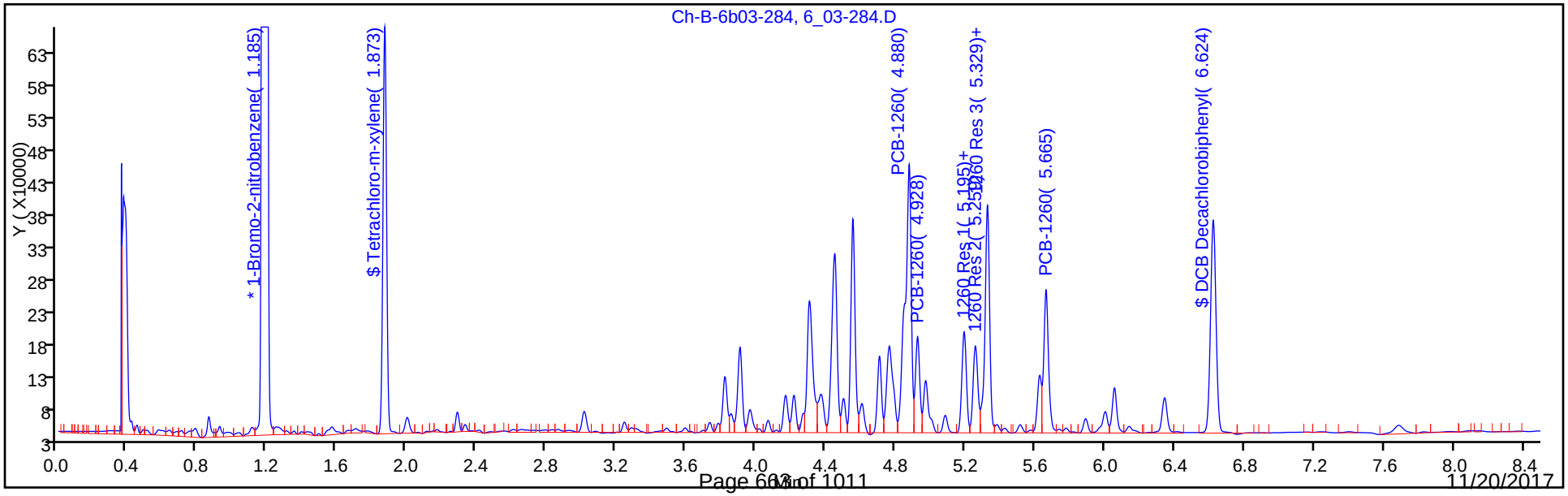
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Injection Date:	10-Nov-2017 16:10:03	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-6-B	Lab Sample ID:	480-127239-6	Worklist Smp#:	22
Client ID:	NS-DUP-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



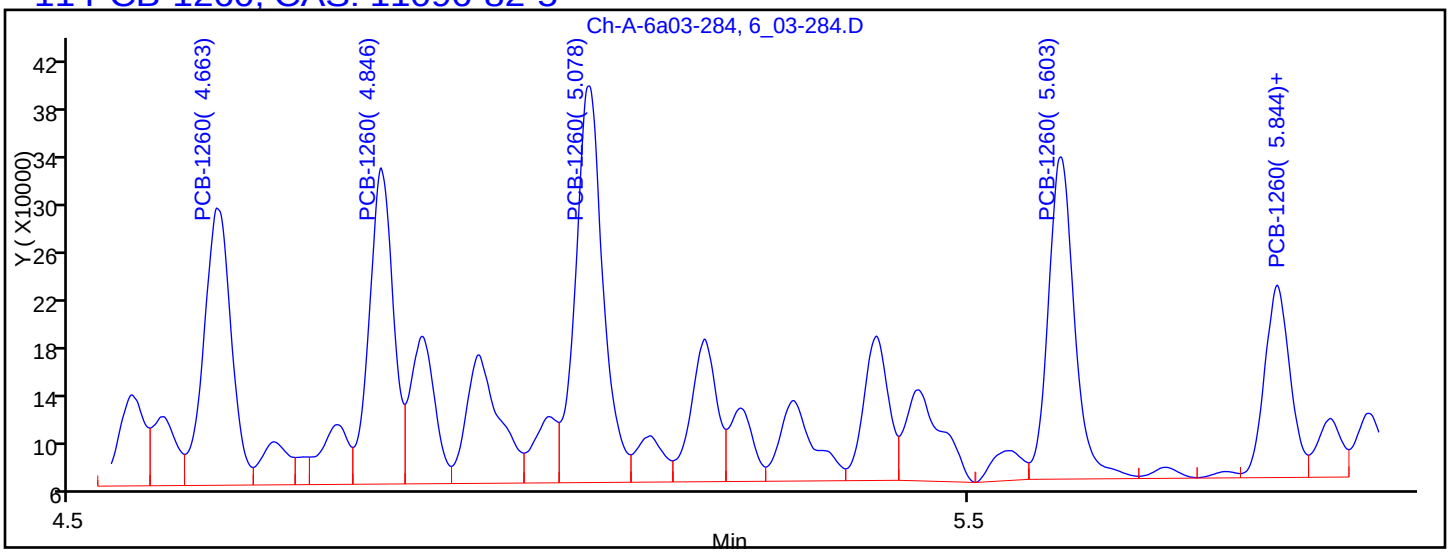
Report Date: 10-Nov-2017 16:24:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-284.D

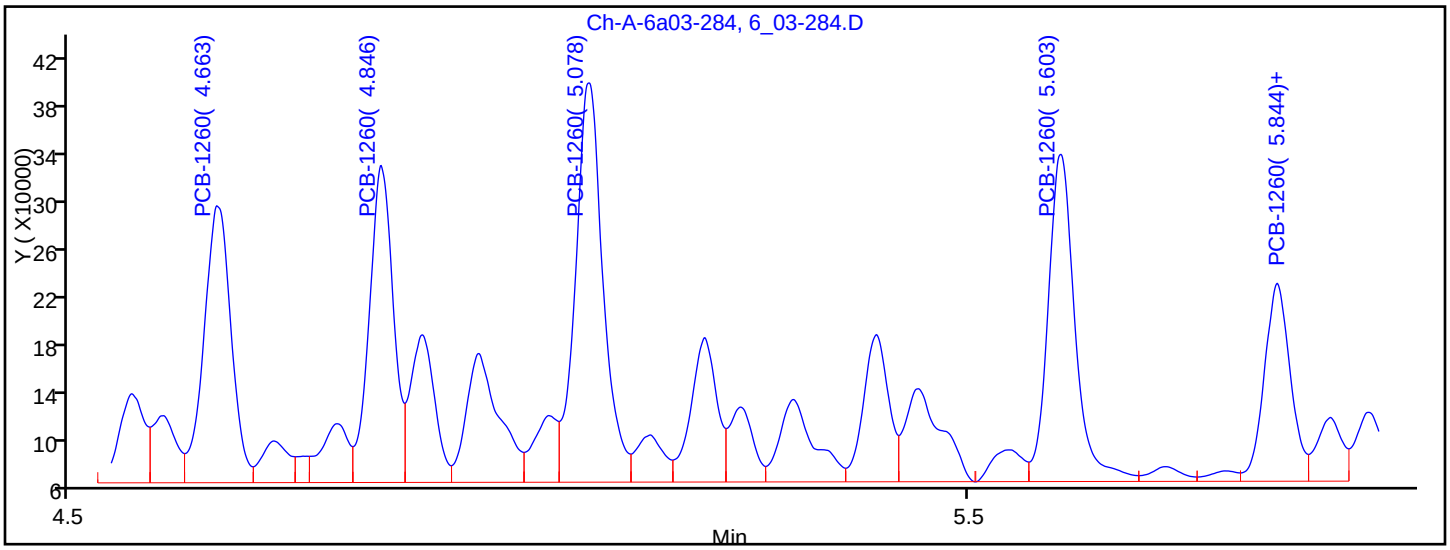
Injection Date:	10-Nov-2017 16:10:03	Instrument ID:	HP6890-6		
Lims ID:	480-127239-A-6-B	Lab Sample ID:	480-127239-6		
Client ID:	NS-DUP-SOIL 0-2"				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.663	Response = 487876
4.846	Response = 488786
5.078	Response = 702167
5.603	Response = 544035
5.844	Response = 314302



Manual Integration Results

4.663	Response = 480270	M
4.846	Response = 485736	M
5.078	Response = 703058	M
5.603	Response = 562961	M
5.844	Response = 330258	M

Reviewer: owenj, 10-Nov-2017 16:24:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

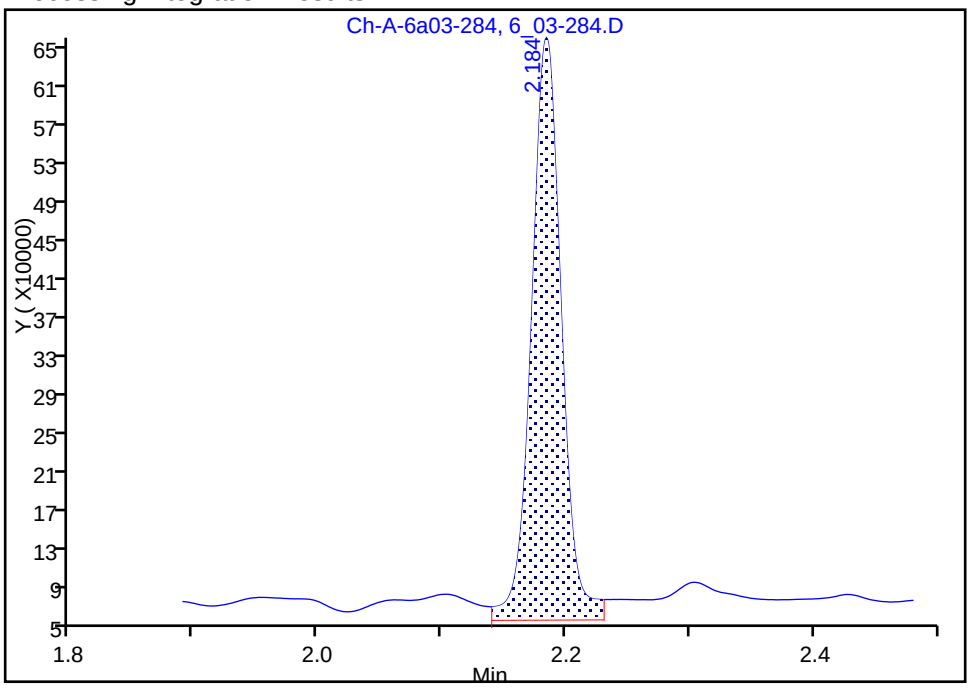
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-284.D				
Injection Date:	10-Nov-2017 16:10:03	Instrument ID:	HP6890-6		
Lims ID:	480-127239-A-6-B	Lab Sample ID:	480-127239-6		
Client ID:	NS-DUP-SOIL 0-2"				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

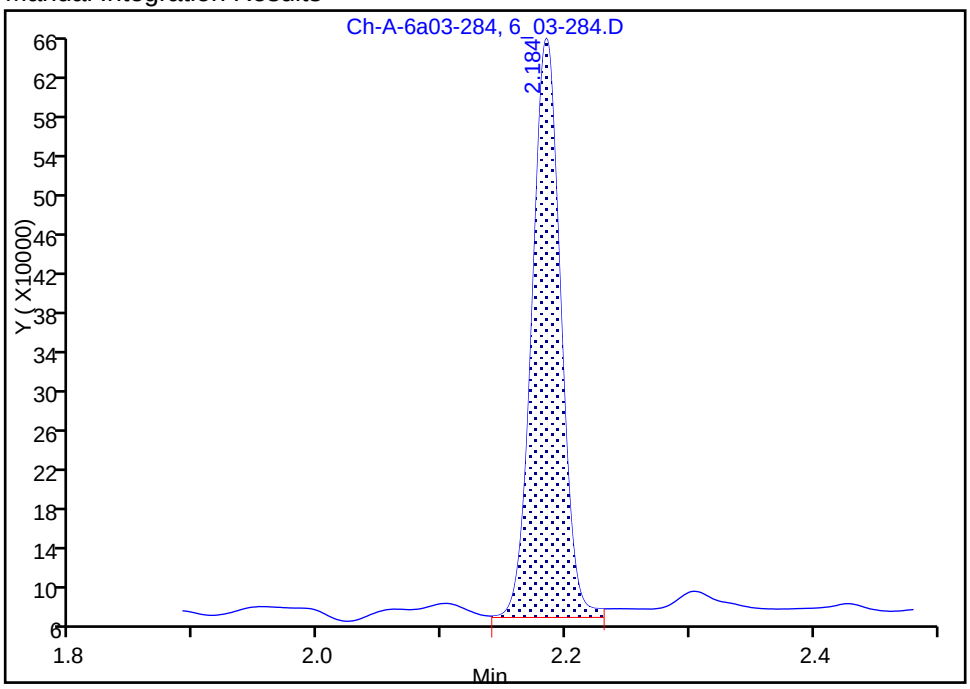
Processing Integration Results

RT: 2.18
Area: 1012518
Amount: 0.020799
Amount Units: ng/uL



Manual Integration Results

RT: 2.18
Area: 944216
Amount: 0.019396
Amount Units: ng/uL



Reviewer: owenj, 10-Nov-2017 16:24:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 0-2" | Lab Sample ID: 480-127239-6

Matrix: Solid | Lab File ID: 6_03-284.D

Analysis Method: 8082A | Date Collected: 11/07/2017 00:00

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.22(g) | Date Analyzed: 11/10/2017 16:10

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 25.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	74		60-154
2051-24-3	DCB Decachlorobiphenyl	119		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-284.D
Lims ID: 480-127239-A-6-B
Client ID: NS-DUP-SOIL 0-2"
Sample Type: Client
Inject. Date: 10-Nov-2017 16:10:03 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 16:24:48 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 16:24:48

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.187	1.186	0.001	22481576	0.5000	
2	1.185	1.183	0.002	23892752	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						M
1	2.184	2.183	0.002	944216	0.0194	M
2	1.873	1.869	0.003	923429	0.0149	
					RPD = 26.45	
11 PCB-1260						M
1	4.663	4.660	0.002	480270	0.2223	M
1	4.846	4.843	0.003	485736	0.2029	M
1	5.078	5.077	0.001	703058	0.2160	M
1	5.603	5.601	0.002	562961	0.1678	M
1	5.844	5.843	0.002	330258	0.1831	M
		Average of Peak Amounts =			0.1984	
2	4.880	4.877	0.003	1033546	0.3942	M
2	4.928	4.925	0.003	256485	0.1752	M
2	5.195	5.190	0.005	287094	0.1643	M
2	5.329	5.326	0.003	662382	0.1634	M
2	5.665	5.663	0.003	426343	0.1737	M
		Average of Peak Amounts =			0.2142	
					RPD = 7.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						M
1	5.844	5.843	0.002	330258	NR	M
2	5.195	5.190	0.005	287094	NR	M
					RPD = NaN	
14 1260 Res 2						M
1	5.903	5.902	0.001	101155	NR	M
2	5.259	5.257	0.002	262040	NR	M
					RPD = NaN	
12 1260 Res 3						M
1	5.946	5.945	0.001	111607	NR	M
2	5.329	5.326	0.003	662382	NR	M
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						M
1	6.989	6.987	0.002	567438	0.0208	
2	6.624	6.620	0.004	731932	0.0238	M
					RPD = 13.37	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

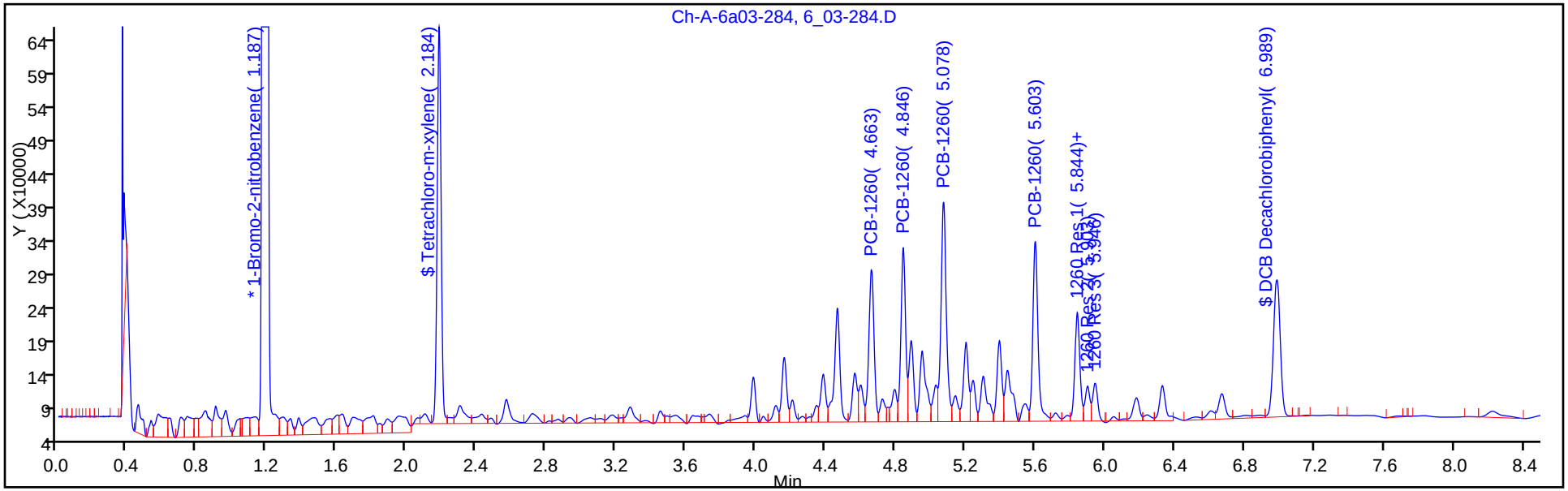
Report Date: 10-Nov-2017 16:24:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

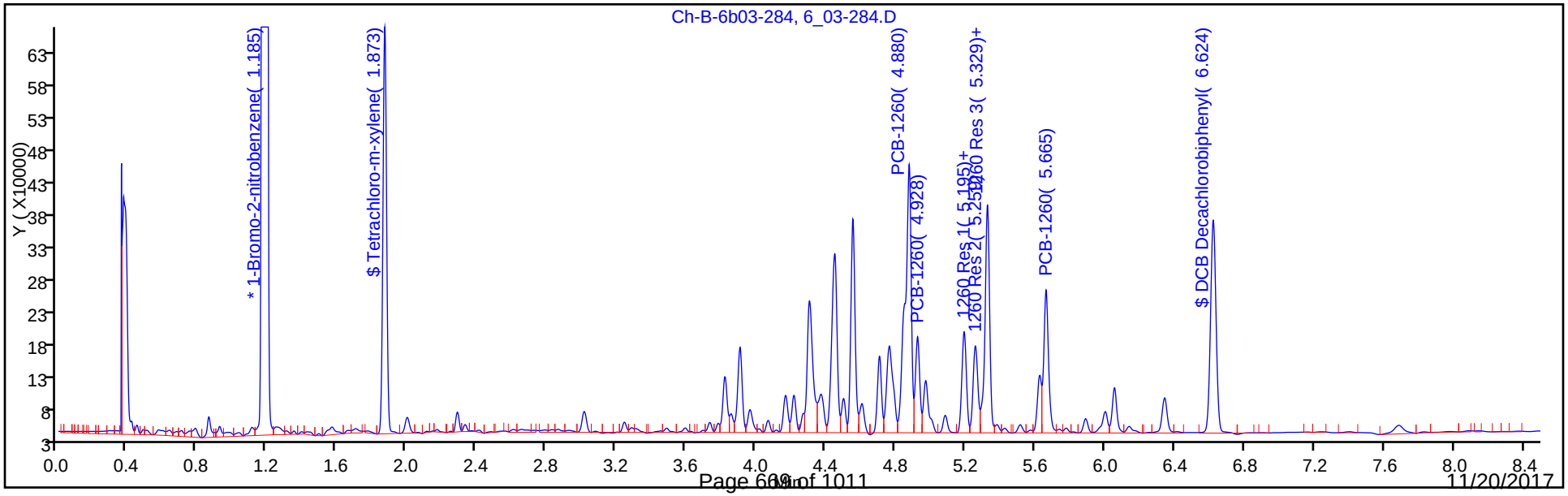
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Injection Date:	10-Nov-2017 16:10:03	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-6-B	Lab Sample ID:	480-127239-6	Worklist Smp#:	22
Client ID:	NS-DUP-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



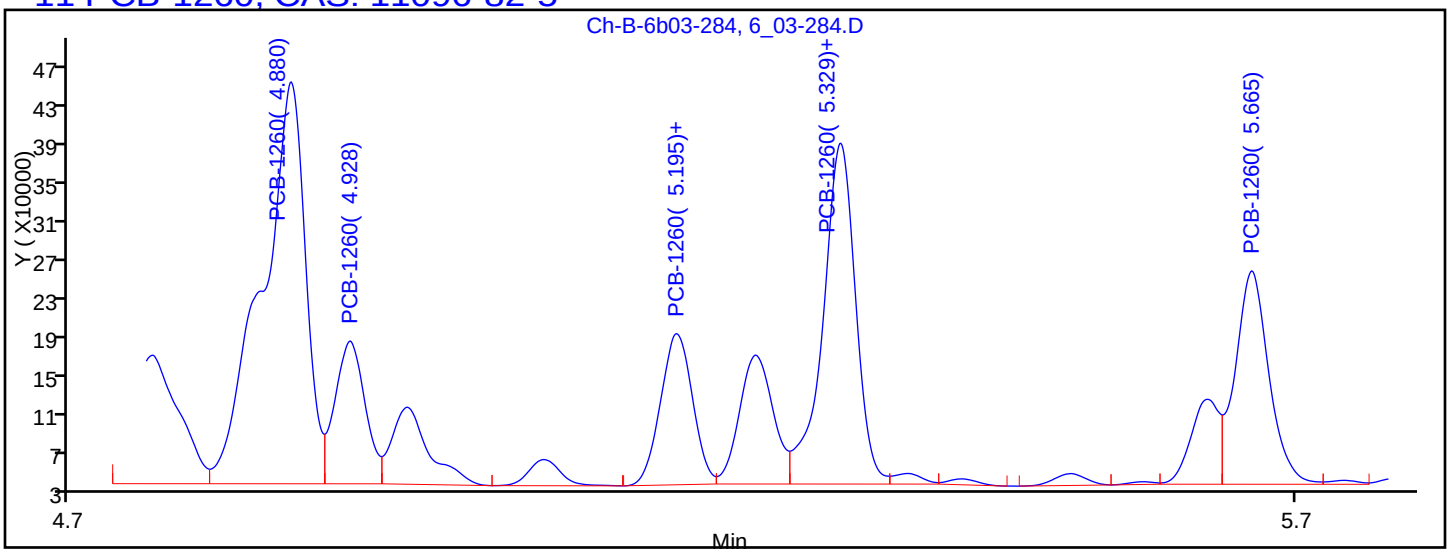
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TestAmerica Buffalo

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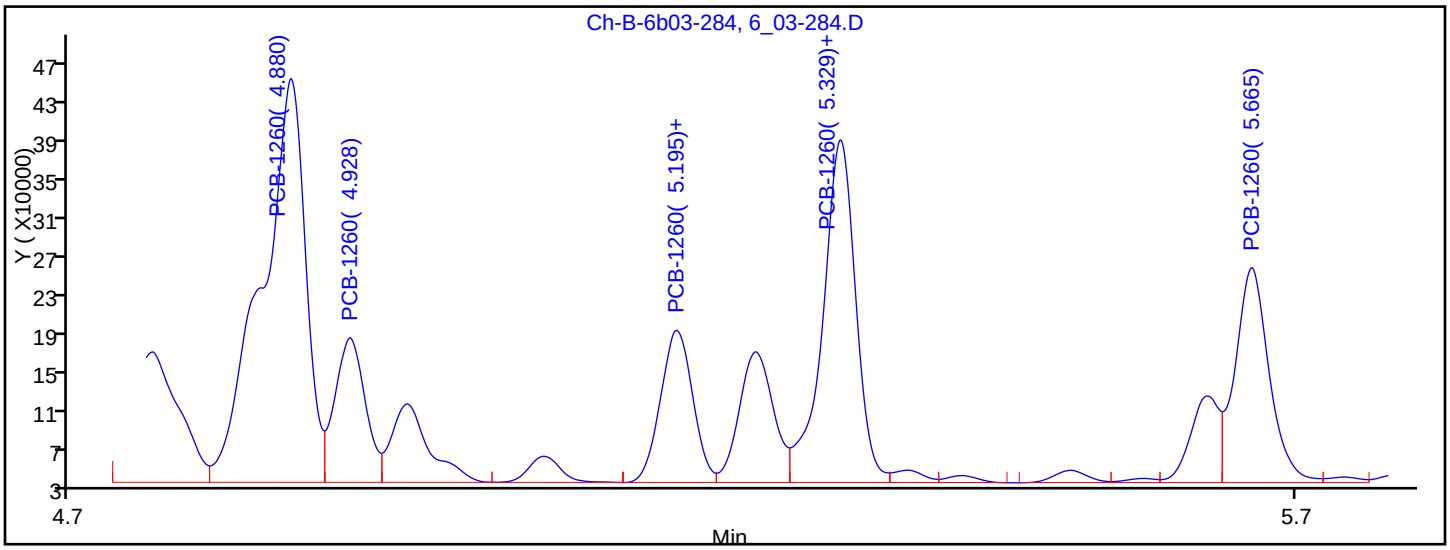
Injection Date:	10-Nov-2017 16:10:03	Instrument ID:	HP6890-6		
Lims ID:	480-127239-A-6-B	Lab Sample ID:	480-127239-6		
Client ID:	NS-DUP-SOIL 0-2"				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.880	Response = 1022666
4.928	Response = 251156
5.195	Response = 283315
5.329	Response = 653682
5.665	Response = 418121



Manual Integration Results

4.880	Response = 1033546	M
4.928	Response = 256485	M
5.195	Response = 287094	M
5.329	Response = 662382	M
5.665	Response = 426343	M

Reviewer: owenj, 10-Nov-2017 16:24:34

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

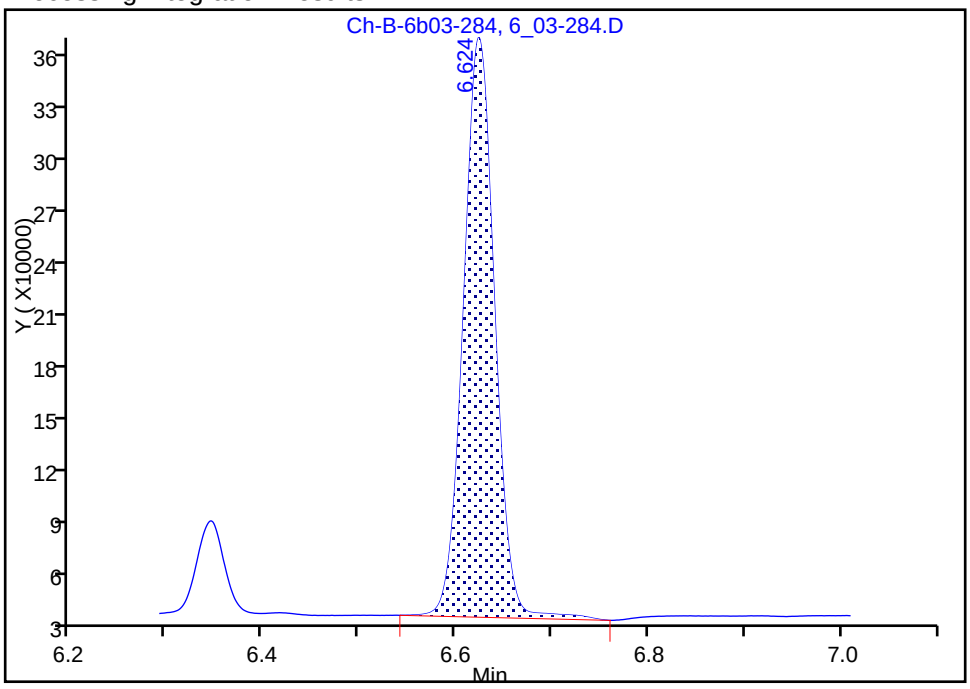
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Injection Date:	10-Nov-2017 16:10:03	Instrument ID:	HP6890-6		
Lims ID:	480-127239-A-6-B	Lab Sample ID:	480-127239-6		
Client ID:	NS-DUP-SOIL 0-2"				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

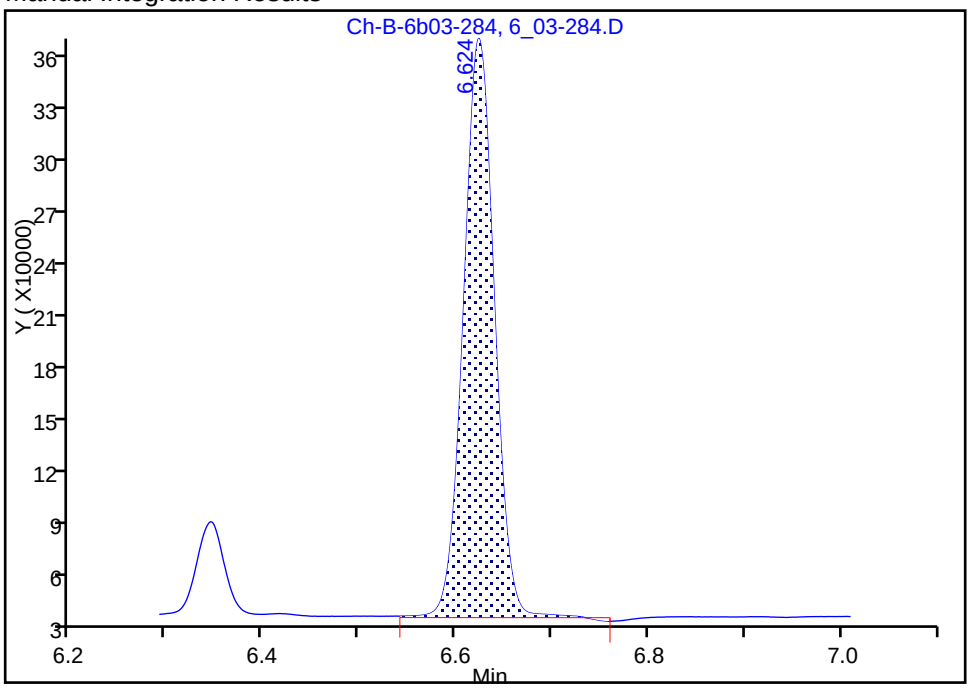
Processing Integration Results

RT: 6.62
Area: 740041
Amount: 0.024057
Amount Units: ng/uL



Manual Integration Results

RT: 6.62
Area: 731932
Amount: 0.023787
Amount Units: ng/uL



Reviewer: owenj, 10-Nov-2017 16:24:34

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 2-12" | Lab Sample ID: 480-127239-7

Matrix: Solid | Lab File ID: 6_03-285.D

Analysis Method: 8082A | Date Collected: 11/07/2017 13:10

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.12(g) | Date Analyzed: 11/10/2017 16:25

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 28.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.33	0.065
11104-28-2	PCB-1221	ND		0.33	0.065
11141-16-5	PCB-1232	ND		0.33	0.065
53469-21-9	PCB-1242	ND		0.33	0.065
12672-29-6	PCB-1248	ND		0.33	0.065
11097-69-1	PCB-1254	2.7		0.33	0.15
11096-82-5	PCB-1260	2.7		0.33	0.15
37324-23-5	PCB-1262	ND		0.33	0.15
11100-14-4	PCB-1268	ND		0.33	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		60-154
2051-24-3	DCB Decachlorobiphenyl	97		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-285.D
Lims ID: 480-127239-A-7-B
Client ID: NS-NORTH-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 16:25:58 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 16:51:10 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 16:51:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.186	1.186	0.000	18849942	0.5000	
2	1.184	1.183	0.001	19880419	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.183	2.183	0.001	966613	0.0237	
2	1.872	1.869	0.003	1014862	0.0196	
					RPD = 18.69	
8 PCB-1254						
1	4.163	4.162	0.000	561006	0.2345	
1	4.468	4.468	0.000	935652	0.3156	
1	4.662	4.668	-0.006	947367	0.3104	
1	4.891	4.893	-0.001	472928	0.4383	
1	5.076	5.078	-0.002	1381140	0.7408	
		Average of Peak Amounts =			0.4079	
2	3.909	3.907	0.002	648969	0.3331	
2	4.218	4.216	0.002	313990	0.2338	
2	4.308	4.303	0.005	1297559	0.4540	
2	0.000	4.434	-4.434	0	0	
2	4.878	4.877	0.001	1877737	0.7772	
		Average of Peak Amounts =			0.4495	
					RPD = 9.71	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1260						
1	4.662	4.660	0.002	947367	0.5229	
1	4.845	4.843	0.002	819673	0.4084	
1	5.076	5.077	-0.001	1381140	0.5061	
1	5.604	5.601	0.003	794903	0.2826	
1	5.845	5.843	0.003	442051	0.2923	
		Average of Peak Amounts =			0.4024	
2	4.878	4.877	0.001	1877737	0.8608	
2	4.928	4.925	0.003	412673	0.3388	
2	5.195	5.190	0.005	545801	0.3753	
2	5.328	5.326	0.002	999074	0.2963	
2	5.665	5.663	0.003	643145	0.3150	
		Average of Peak Amounts =			0.4372	
					RPD = 8.29	
9 1260 Res 1						
1	5.845	5.843	0.003	442051	NR	
2	5.195	5.190	0.005	545801	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.902	5.902	0.000	126810	NR	
2	5.259	5.257	0.002	402469	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.944	5.945	-0.001	171677	NR	
2	5.328	5.326	0.002	999074	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.988	6.987	0.001	442998	0.0194	
2	6.623	6.620	0.003	561428	0.0219	
					RPD = 12.18	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

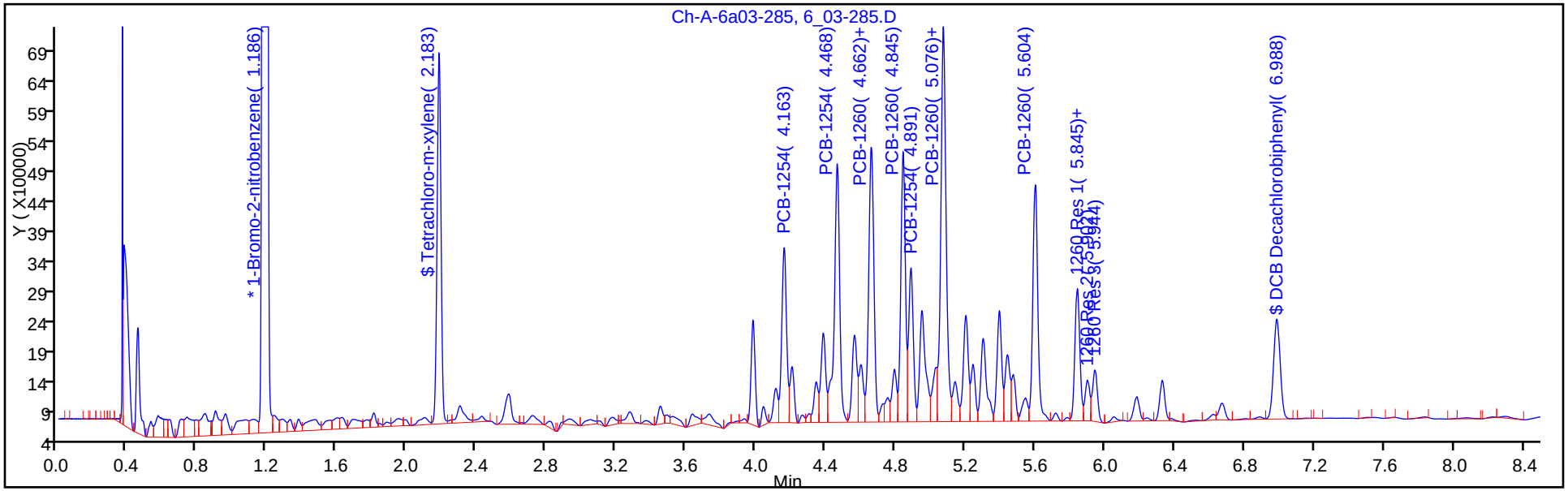
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TestAmerica Buffalo

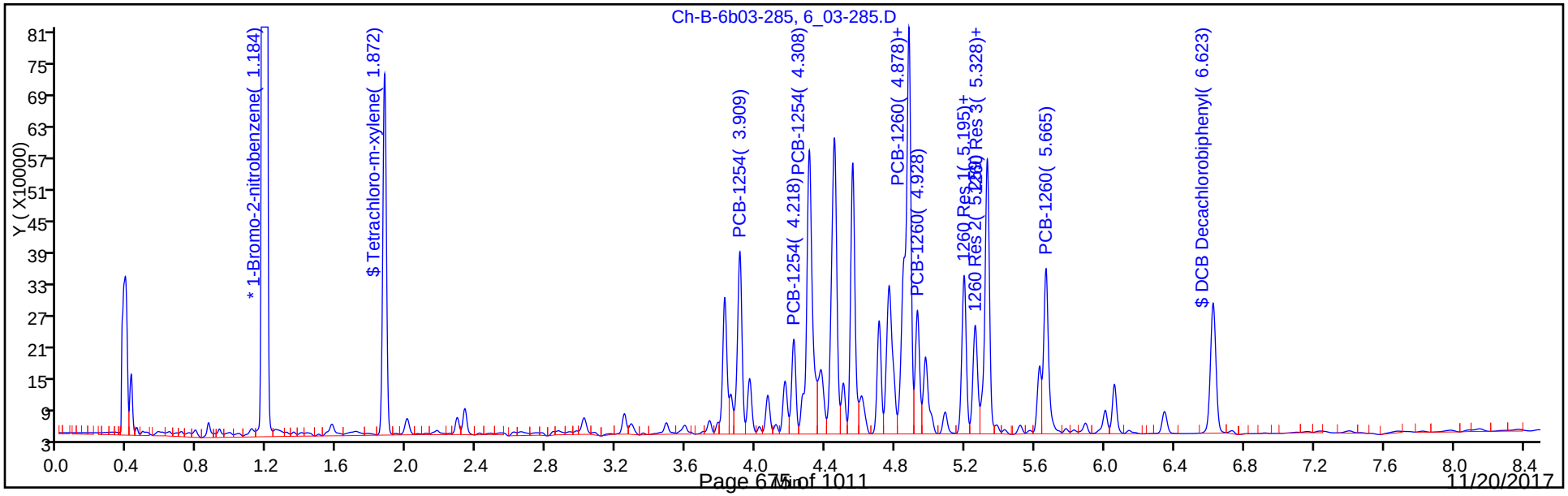
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Injection Date:	10-Nov-2017 16:25:58	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-7-B	Lab Sample ID:	480-127239-7	Worklist Smp#:	23
Client ID:	NS-NORTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-NORTH-SOIL 2-12" | Lab Sample ID: 480-127239-7

Matrix: Solid | Lab File ID: 6_03-285.D

Analysis Method: 8082A | Date Collected: 11/07/2017 13:10

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.12(g) | Date Analyzed: 11/10/2017 16:25

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 28.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	98		60-154
2051-24-3	DCB Decachlorobiphenyl	109		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-285.D
Lims ID: 480-127239-A-7-B
Client ID: NS-NORTH-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 16:25:58 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 16:51:10 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 16:51:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.186	1.186	0.000	18849942	0.5000	
2	1.184	1.183	0.001	19880419	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.183	2.183	0.001	966613	0.0237	
2	1.872	1.869	0.003	1014862	0.0196	
					RPD = 18.69	
8 PCB-1254						
1	4.163	4.162	0.000	561006	0.2345	
1	4.468	4.468	0.000	935652	0.3156	
1	4.662	4.668	-0.006	947367	0.3104	
1	4.891	4.893	-0.001	472928	0.4383	
1	5.076	5.078	-0.002	1381140	0.7408	
		Average of Peak Amounts =			0.4079	
2	3.909	3.907	0.002	648969	0.3331	
2	4.218	4.216	0.002	313990	0.2338	
2	4.308	4.303	0.005	1297559	0.4540	
2	0.000	4.434	-4.434	0	0	
2	4.878	4.877	0.001	1877737	0.7772	
		Average of Peak Amounts =			0.4495	
					RPD = 9.71	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1260						
1	4.662	4.660	0.002	947367	0.5229	
1	4.845	4.843	0.002	819673	0.4084	
1	5.076	5.077	-0.001	1381140	0.5061	
1	5.604	5.601	0.003	794903	0.2826	
1	5.845	5.843	0.003	442051	0.2923	
		Average of Peak Amounts =			0.4024	
2	4.878	4.877	0.001	1877737	0.8608	
2	4.928	4.925	0.003	412673	0.3388	
2	5.195	5.190	0.005	545801	0.3753	
2	5.328	5.326	0.002	999074	0.2963	
2	5.665	5.663	0.003	643145	0.3150	
		Average of Peak Amounts =			0.4372	
					RPD = 8.29	
9 1260 Res 1						
1	5.845	5.843	0.003	442051	NR	
2	5.195	5.190	0.005	545801	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.902	5.902	0.000	126810	NR	
2	5.259	5.257	0.002	402469	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.944	5.945	-0.001	171677	NR	
2	5.328	5.326	0.002	999074	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.988	6.987	0.001	442998	0.0194	
2	6.623	6.620	0.003	561428	0.0219	
					RPD = 12.18	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

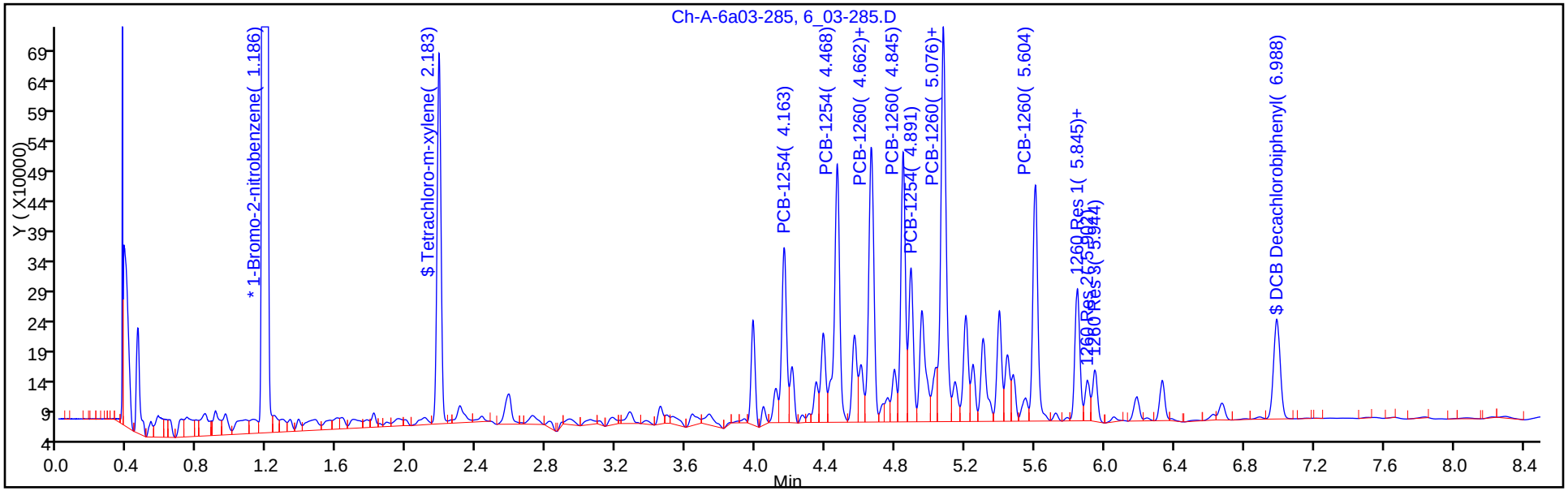
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TestAmerica Buffalo

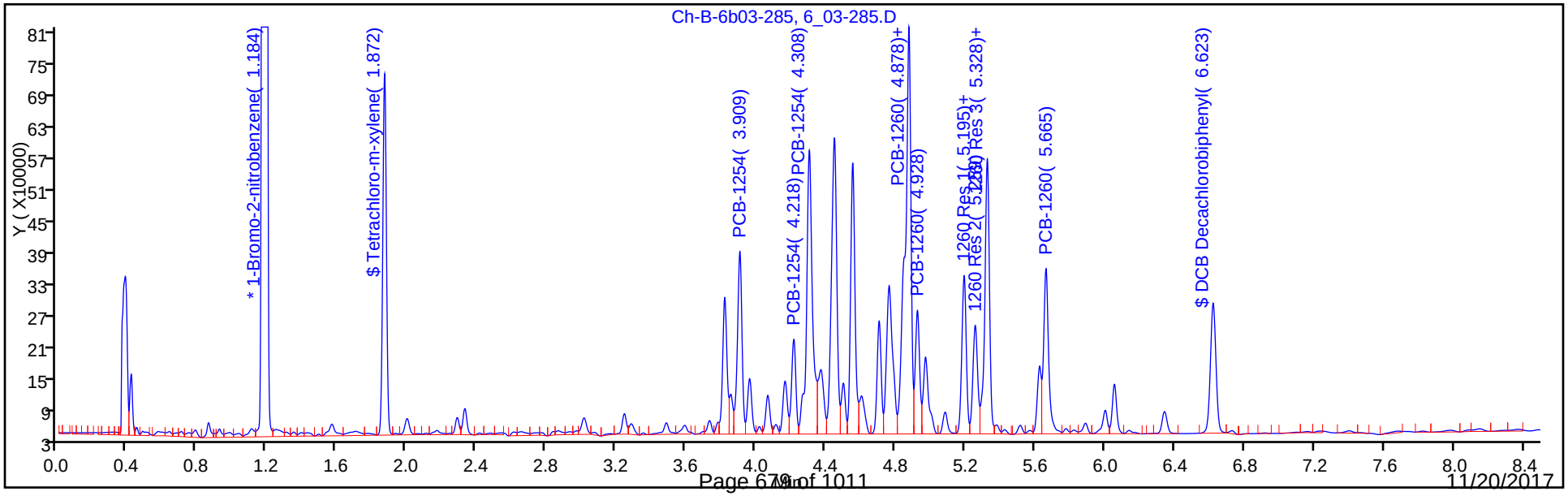
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-285.D

Injection Date:	10-Nov-2017 16:25:58	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-7-B	Lab Sample ID:	480-127239-7	Worklist Smp#:	23
Client ID:	NS-NORTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 2-12" | Lab Sample ID: 480-127239-8

Matrix: Solid | Lab File ID: 6_03-286.D

Analysis Method: 8082A | Date Collected: 11/07/2017 13:50

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.08(g) | Date Analyzed: 11/10/2017 16:41

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.31	0.061
11104-28-2	PCB-1221	ND		0.31	0.061
11141-16-5	PCB-1232	ND		0.31	0.061
53469-21-9	PCB-1242	ND		0.31	0.061
12672-29-6	PCB-1248	ND		0.31	0.061
11097-69-1	PCB-1254	ND		0.31	0.15
11096-82-5	PCB-1260	0.72		0.31	0.15
37324-23-5	PCB-1262	ND		0.31	0.15
11100-14-4	PCB-1268	ND		0.31	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	113		60-154
2051-24-3	DCB Decachlorobiphenyl	93		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-286.D
Lims ID: 480-127239-A-8-B
Client ID: NS-EAST-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 16:41:53 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 16:58:08 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 16:58:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.188	1.186	0.002	18564596	0.5000	
2	1.185	1.183	0.002	20174793	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	905394	0.0225	
2	1.873	1.869	0.003	957200	0.0182	
					RPD = 20.97	
11 PCB-1260						
1	4.663	4.660	0.003	260425	0.1460	
1	4.846	4.843	0.003	214687	0.1086	
1	5.078	5.077	0.001	360221	0.1340	
1	5.603	5.601	0.002	247849	0.0895	
1	5.845	5.843	0.003	142299	0.0955	
		Average of Peak Amounts =			0.1147	
2	4.878	4.877	0.001	574311	0.2594	
2	4.927	4.925	0.002	140801	0.1139	
2	5.194	5.190	0.004	170078	0.1153	
2	5.328	5.326	0.002	317986	0.0929	
2	5.664	5.663	0.002	209653	0.1012	
		Average of Peak Amounts =			0.1365	
					RPD = 17.38	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.845	5.843	0.003	142299	NR	
2	5.194	5.190	0.004	170078	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.000	43639	NR	
2	5.259	5.257	0.002	136929	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.948	5.945	0.003	53048	NR	
2	5.328	5.326	0.002	317986	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.990	6.987	0.003	416768	0.0185	
2	6.623	6.620	0.003	553780	0.0213	
					RPD = 13.83	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

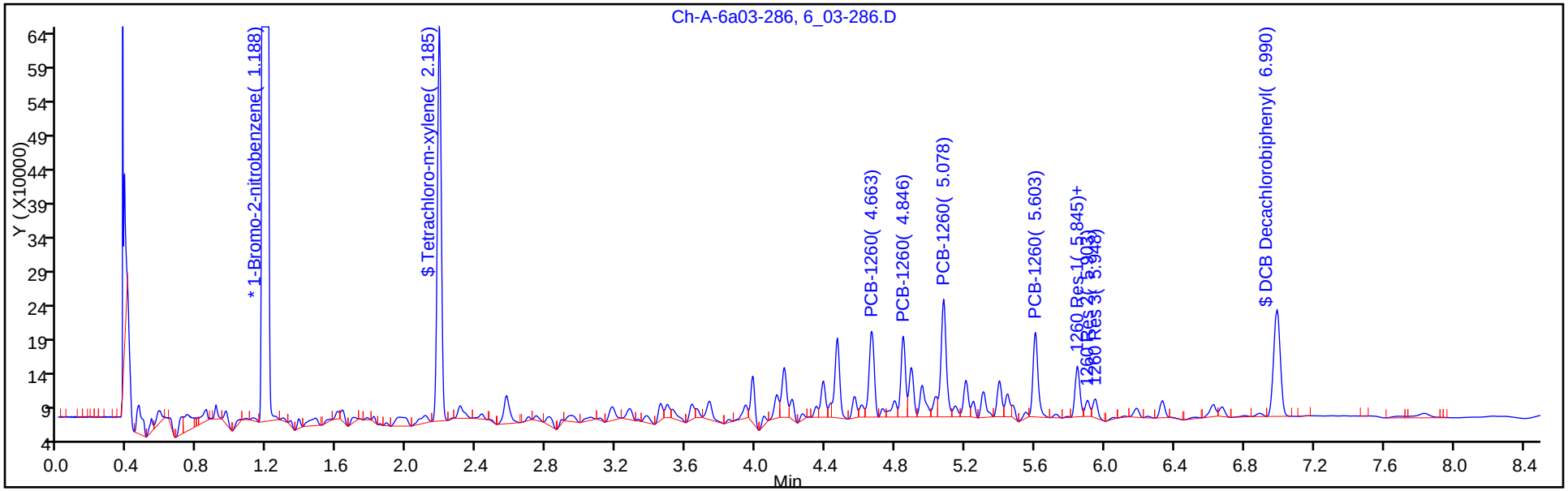
Report Date: 10-Nov-2017 16:58:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

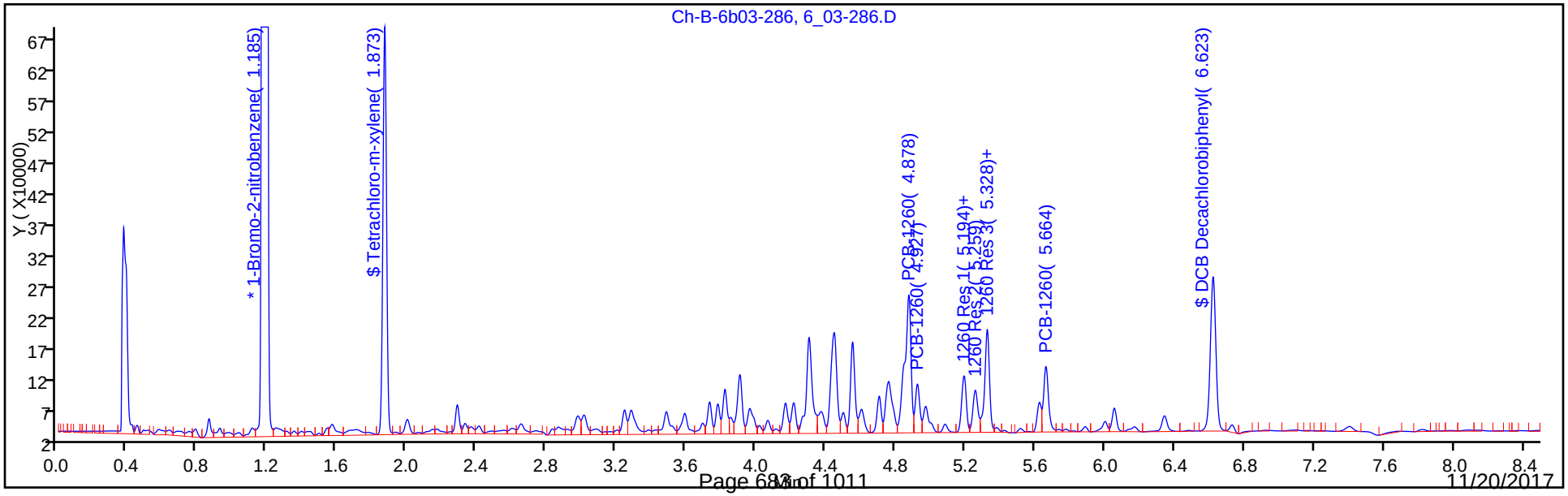
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-286.D

Injection Date:	10-Nov-2017 16:41:53	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-8-B	Lab Sample ID:	480-127239-8	Worklist Smp#:	24
Client ID:	NS-EAST-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-EAST-SOIL 2-12" | Lab Sample ID: 480-127239-8

Matrix: Solid | Lab File ID: 6_03-286.D

Analysis Method: 8082A | Date Collected: 11/07/2017 13:50

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.08(g) | Date Analyzed: 11/10/2017 16:41

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	91		60-154
2051-24-3	DCB Decachlorobiphenyl	106		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-286.D
Lims ID: 480-127239-A-8-B
Client ID: NS-EAST-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 16:41:53 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 16:58:08 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 16:58:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.188	1.186	0.002	18564596	0.5000	
2	1.185	1.183	0.002	20174793	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	905394	0.0225	
2	1.873	1.869	0.003	957200	0.0182	
					RPD = 20.97	
11 PCB-1260						
1	4.663	4.660	0.003	260425	0.1460	
1	4.846	4.843	0.003	214687	0.1086	
1	5.078	5.077	0.001	360221	0.1340	
1	5.603	5.601	0.002	247849	0.0895	
1	5.845	5.843	0.003	142299	0.0955	
		Average of Peak Amounts =			0.1147	
2	4.878	4.877	0.001	574311	0.2594	
2	4.927	4.925	0.002	140801	0.1139	
2	5.194	5.190	0.004	170078	0.1153	
2	5.328	5.326	0.002	317986	0.0929	
2	5.664	5.663	0.002	209653	0.1012	
		Average of Peak Amounts =			0.1365	
					RPD = 17.38	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.845	5.843	0.003	142299	NR	
2	5.194	5.190	0.004	170078	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.000	43639	NR	
2	5.259	5.257	0.002	136929	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.948	5.945	0.003	53048	NR	
2	5.328	5.326	0.002	317986	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.990	6.987	0.003	416768	0.0185	
2	6.623	6.620	0.003	553780	0.0213	
					RPD = 13.83	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

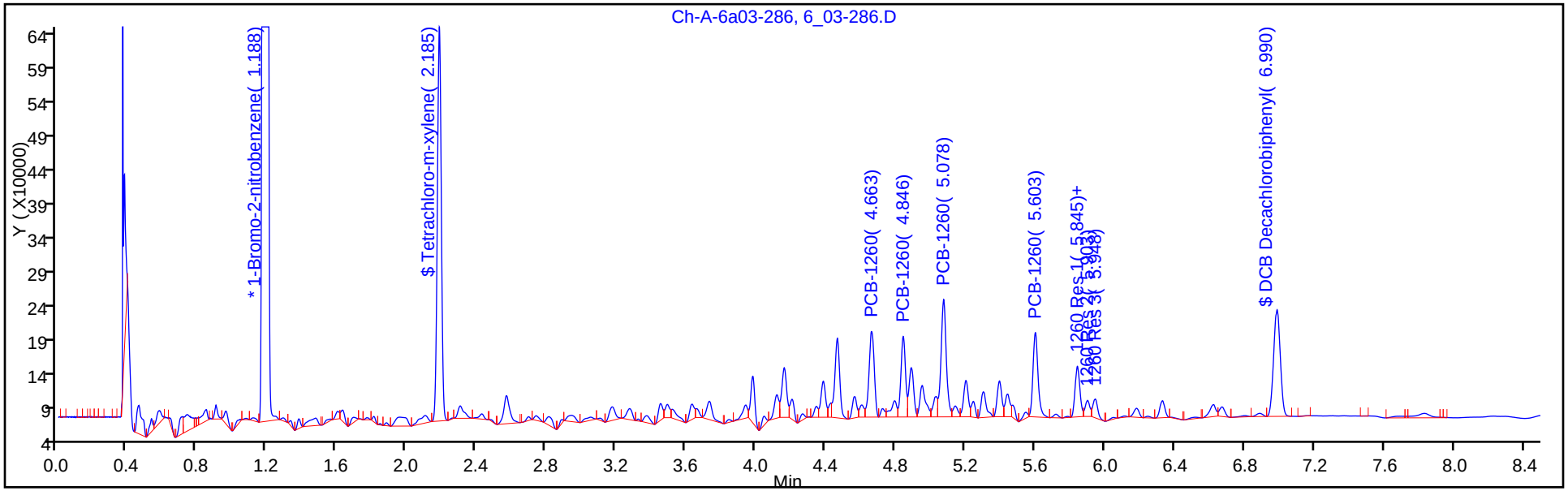
Report Date: 10-Nov-2017 16:58:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

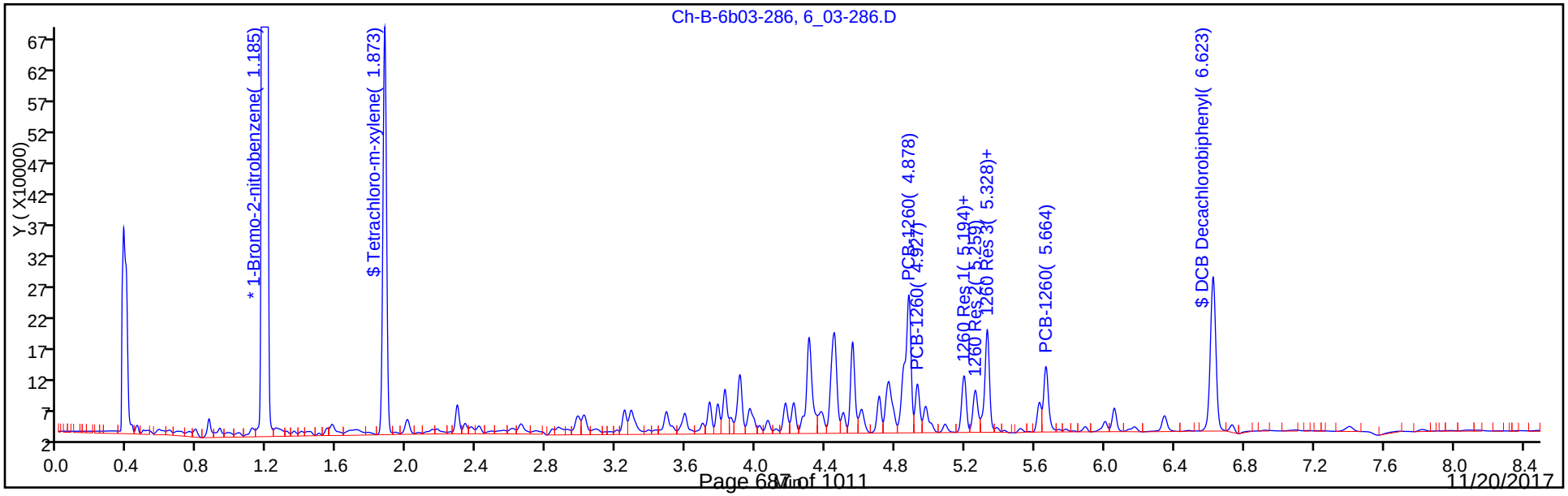
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-286.D

Injection Date:	10-Nov-2017 16:41:53	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-8-B	Lab Sample ID:	480-127239-8	Worklist Smp#:	24
Client ID:	NS-EAST-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" | Lab Sample ID: 480-127239-9

Matrix: Solid | Lab File ID: 6_03-279.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.15(g) | Date Analyzed: 11/10/2017 14:50

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	F2	0.29	0.056
11104-28-2	PCB-1221	ND		0.29	0.056
11141-16-5	PCB-1232	ND		0.29	0.056
53469-21-9	PCB-1242	ND		0.29	0.056
12672-29-6	PCB-1248	ND		0.29	0.056
11097-69-1	PCB-1254	ND		0.29	0.13
11096-82-5	PCB-1260	0.20	J	0.29	0.13
37324-23-5	PCB-1262	ND		0.29	0.13
11100-14-4	PCB-1268	ND		0.29	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	112		60-154
2051-24-3	DCB Decachlorobiphenyl	91		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-279.D
Lims ID: 480-127239-A-9-F
Client ID: NS-SOUTH-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 14:50:34 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:14:34 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 15:14:34

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.187	1.186	0.001	21973378	0.5000	
2	1.184	1.183	0.001	22276001	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	1061604	0.0223	
2	1.872	1.869	0.003	1107472	0.0191	
					RPD = 15.40	
11 PCB-1260						
1	4.664	4.660	0.004	96369	0.0456	
1	4.847	4.843	0.004	82697	0.0353	
1	5.078	5.077	0.001	131374	0.0413	
1	5.603	5.601	0.002	86208	0.0263	
1	5.843	5.843	0.000	50713	0.0288	
		Average of Peak Amounts =			0.0355	
2	4.878	4.877	0.001	207884	0.0851	
2	4.927	4.925	0.002	41131	0.0301	
2	5.195	5.190	0.005	62394	0.0383	
2	5.328	5.326	0.002	111876	0.0296	
2	5.664	5.663	0.002	71280	0.0312	
		Average of Peak Amounts =			0.0428	
					RPD = 18.86	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.843	5.843	0.000	50713	NR	
2	5.195	5.190	0.005	62394	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.000	9764	NR	
2	5.259	5.257	0.002	50315	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.945	5.945	0.000	18013	NR	
2	5.328	5.326	0.002	111876	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.988	6.987	0.001	486007	0.0182	
2	6.622	6.620	0.002	643170	0.0224	
					RPD = 20.46	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

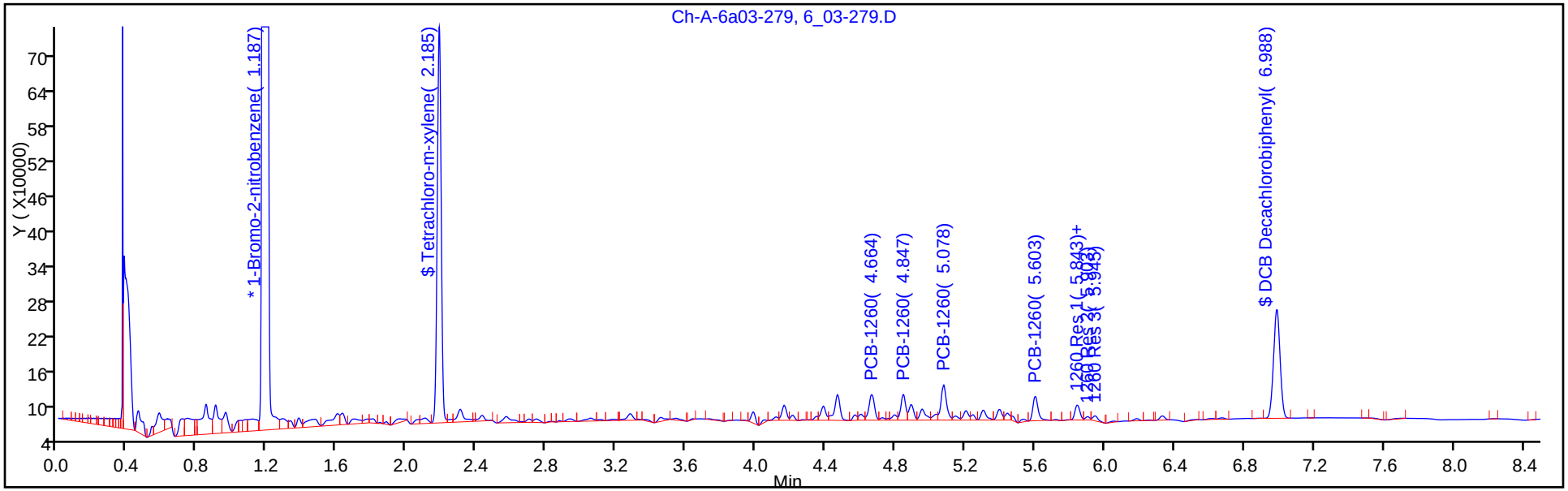
Report Date: 10-Nov-2017 15:14:34 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

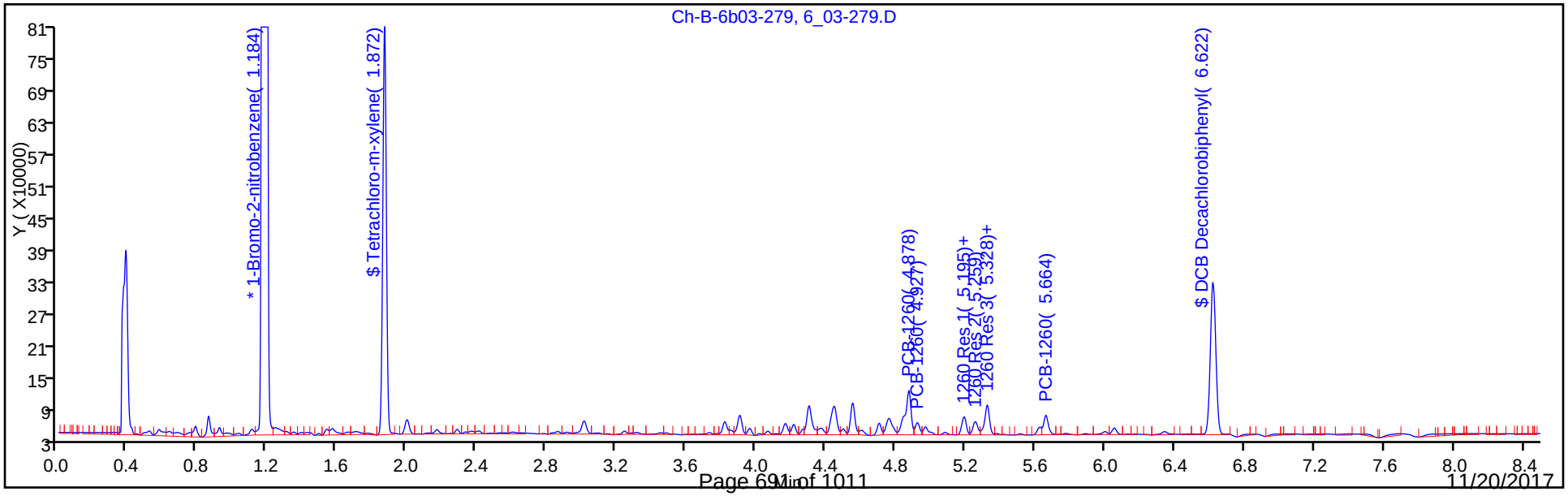
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-279.D

Injection Date:	10-Nov-2017 14:50:34	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-9-F	Lab Sample ID:	480-127239-9	Worklist Smp#:	17
Client ID:	NS-SOUTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" Lab Sample ID: 480-127239-9

Matrix: Solid Lab File ID: 6_03-279.D

Analysis Method: 8082A Date Collected: 11/07/2017 14:30

Extraction Method: 3550C Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.15(g) Date Analyzed: 11/10/2017 14:50

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		60-154
2051-24-3	DCB Decachlorobiphenyl	112		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-279.D
Lims ID: 480-127239-A-9-F
Client ID: NS-SOUTH-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 14:50:34 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:14:34 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 15:14:34

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.187	1.186	0.001	21973378	0.5000	
2	1.184	1.183	0.001	22276001	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	1061604	0.0223	
2	1.872	1.869	0.003	1107472	0.0191	
					RPD = 15.40	
11 PCB-1260						
1	4.664	4.660	0.004	96369	0.0456	
1	4.847	4.843	0.004	82697	0.0353	
1	5.078	5.077	0.001	131374	0.0413	
1	5.603	5.601	0.002	86208	0.0263	
1	5.843	5.843	0.000	50713	0.0288	
		Average of Peak Amounts =			0.0355	
2	4.878	4.877	0.001	207884	0.0851	
2	4.927	4.925	0.002	41131	0.0301	
2	5.195	5.190	0.005	62394	0.0383	
2	5.328	5.326	0.002	111876	0.0296	
2	5.664	5.663	0.002	71280	0.0312	
		Average of Peak Amounts =			0.0428	
					RPD = 18.86	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.843	5.843	0.000	50713	NR	
2	5.195	5.190	0.005	62394	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.000	9764	NR	
2	5.259	5.257	0.002	50315	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.945	5.945	0.000	18013	NR	
2	5.328	5.326	0.002	111876	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.988	6.987	0.001	486007	0.0182	
2	6.622	6.620	0.002	643170	0.0224	
					RPD = 20.46	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

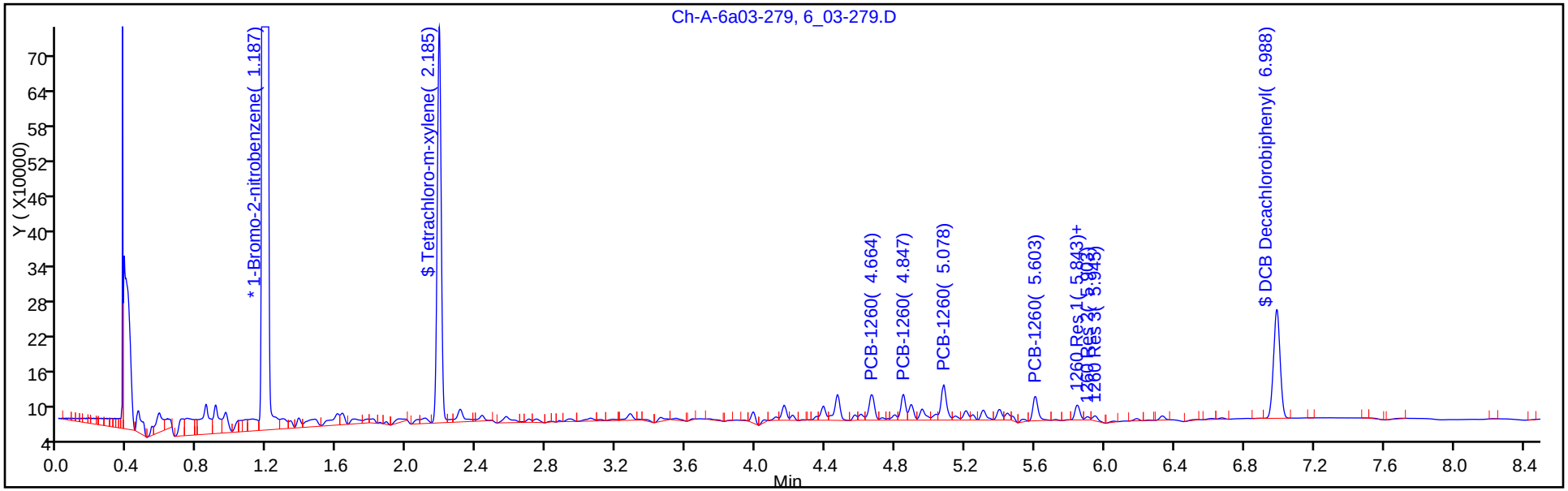
Report Date: 10-Nov-2017 15:14:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

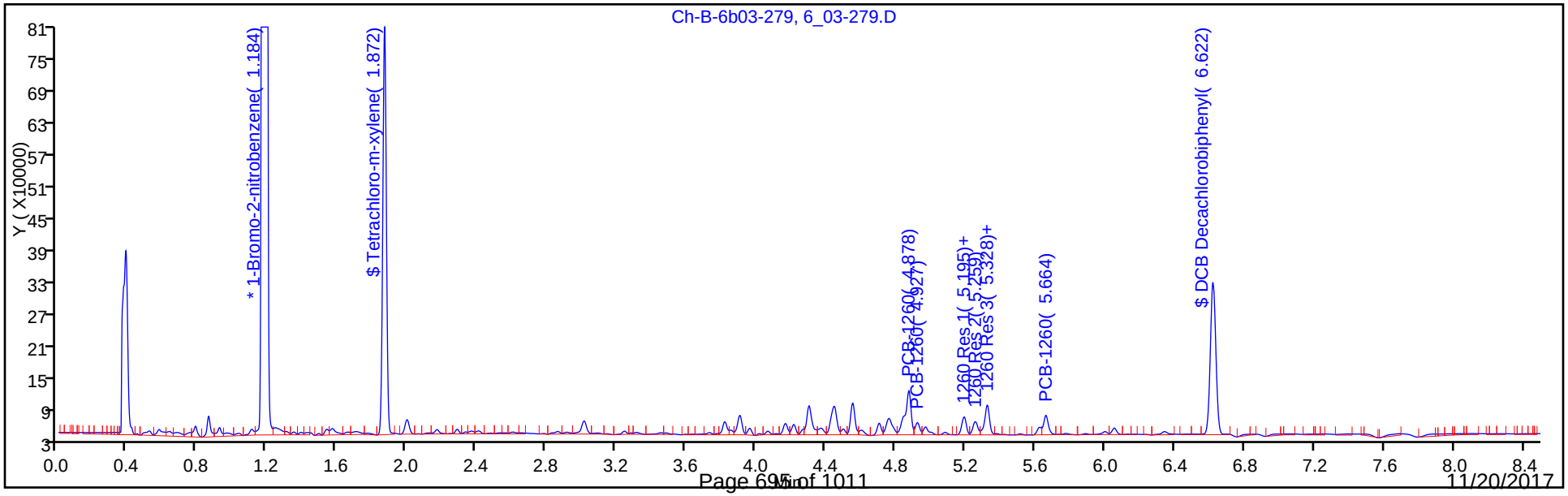
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-279.D

Injection Date:	10-Nov-2017 14:50:34	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-9-F	Lab Sample ID:	480-127239-9	Worklist Smp#:	17
Client ID:	NS-SOUTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 2-12" | Lab Sample ID: 480-127239-10

Matrix: Solid | Lab File ID: 6_03-287.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:50

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.51(g) | Date Analyzed: 11/10/2017 16:57

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	ND		0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	0.91		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	85		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-287.D
Lims ID: 480-127239-A-10-B
Client ID: NS-WEST-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 16:57:51 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 17:24:50 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 17:24:50

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.188	1.186	0.002	20968781	0.5000	
2	1.185	1.183	0.002	21737311	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.186	2.183	0.004	986789	0.0217	
2	1.872	1.869	0.003	1028458	0.0182	
					RPD = 17.71	
11 PCB-1260						
1	4.664	4.660	0.004	410975	0.2039	
1	4.846	4.843	0.003	426774	0.1911	
1	5.077	5.077	0.000	647399	0.2132	
1	5.603	5.601	0.001	528359	0.1688	
1	5.845	5.843	0.003	294675	0.1751	
		Average of Peak Amounts =			0.1905	
2	4.879	4.877	0.002	681290	0.2856	
2	4.927	4.925	0.002	243451	0.1828	
2	5.193	5.190	0.003	299964	0.1887	
2	5.328	5.326	0.002	657146	0.1782	
2	5.665	5.663	0.003	408376	0.1829	
		Average of Peak Amounts =			0.2036	
					RPD = 6.70	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.845	5.843	0.003	294675	NR	
2	5.193	5.190	0.003	299964	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.001	74772	NR	
2	5.258	5.257	0.001	233576	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.946	5.945	0.001	106460	NR	
2	5.328	5.326	0.002	657146	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.988	6.987	0.001	432009	0.0170	
2	6.624	6.620	0.004	551879	0.0196	
					RPD = 14.40	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

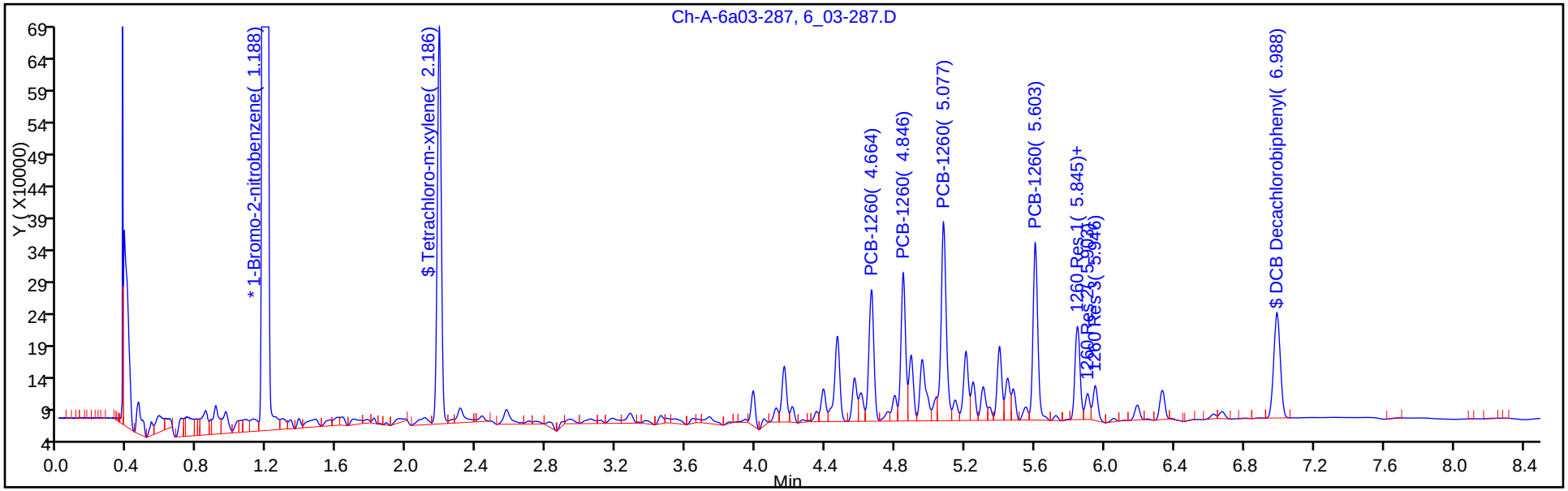
Report Date: 10-Nov-2017 17:24:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

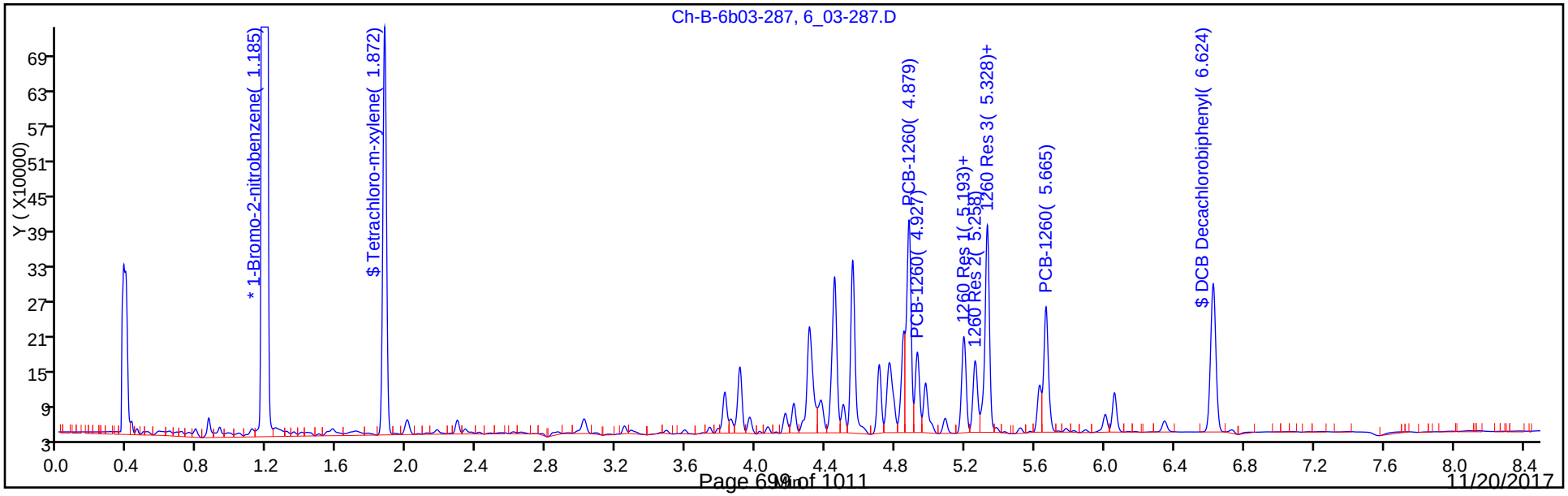
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-287.D

Injection Date:	10-Nov-2017 16:57:51	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-10-B	Lab Sample ID:	480-127239-10	Worklist Smp#:	25
Client ID:	NS-WEST-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-WEST-SOIL 2-12" | Lab Sample ID: 480-127239-10

Matrix: Solid | Lab File ID: 6_03-287.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:50

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.51(g) | Date Analyzed: 11/10/2017 16:57

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	91		60-154
2051-24-3	DCB Decachlorobiphenyl	98		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-287.D
Lims ID: 480-127239-A-10-B
Client ID: NS-WEST-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 16:57:51 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 17:24:50 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 17:24:50

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.188	1.186	0.002	20968781	0.5000	
2	1.185	1.183	0.002	21737311	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.186	2.183	0.004	986789	0.0217	
2	1.872	1.869	0.003	1028458	0.0182	
					RPD = 17.71	
11 PCB-1260						
1	4.664	4.660	0.004	410975	0.2039	
1	4.846	4.843	0.003	426774	0.1911	
1	5.077	5.077	0.000	647399	0.2132	
1	5.603	5.601	0.001	528359	0.1688	
1	5.845	5.843	0.003	294675	0.1751	
		Average of Peak Amounts =			0.1905	
2	4.879	4.877	0.002	681290	0.2856	
2	4.927	4.925	0.002	243451	0.1828	
2	5.193	5.190	0.003	299964	0.1887	
2	5.328	5.326	0.002	657146	0.1782	
2	5.665	5.663	0.003	408376	0.1829	
		Average of Peak Amounts =			0.2036	
					RPD = 6.70	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.845	5.843	0.003	294675	NR	
2	5.193	5.190	0.003	299964	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.903	5.902	0.001	74772	NR	
2	5.258	5.257	0.001	233576	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.946	5.945	0.001	106460	NR	
2	5.328	5.326	0.002	657146	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.988	6.987	0.001	432009	0.0170	
2	6.624	6.620	0.004	551879	0.0196	
					RPD = 14.40	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

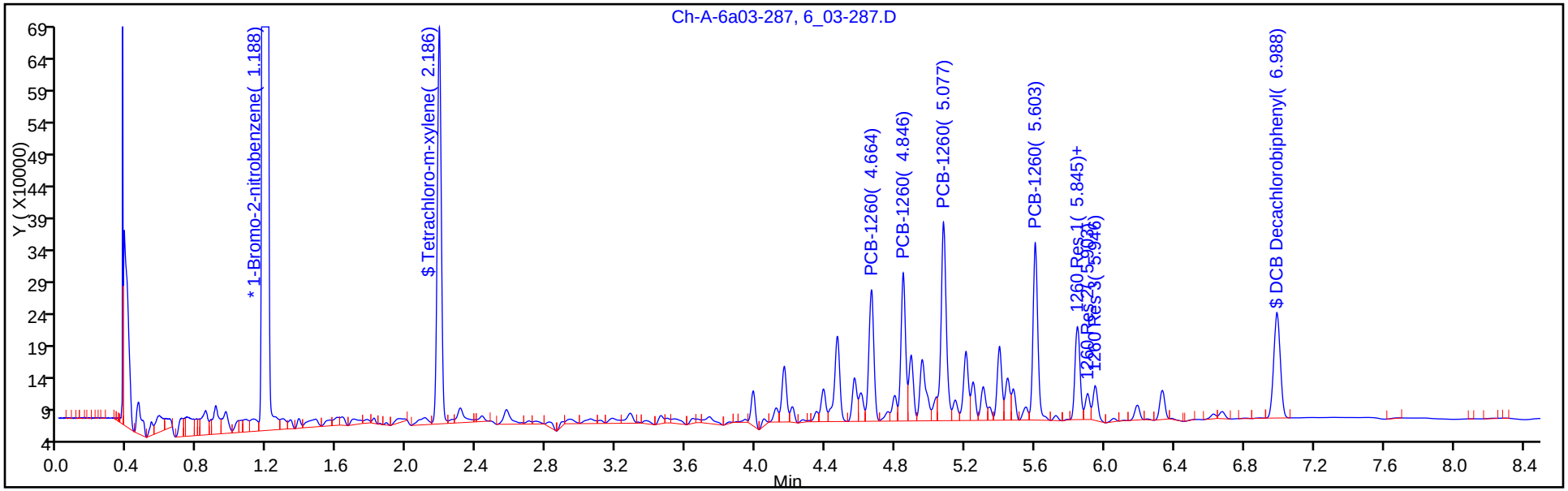
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TestAmerica Buffalo

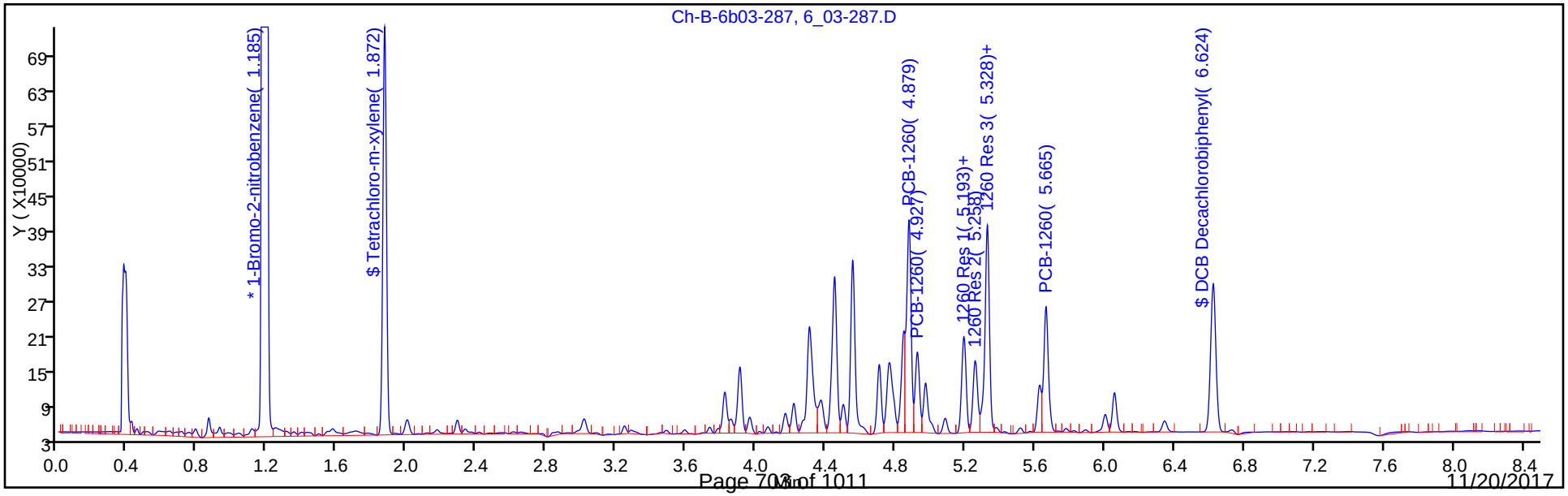
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-287.D

Injection Date:	10-Nov-2017 16:57:51	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-10-B	Lab Sample ID:	480-127239-10	Worklist Smp#:	25
Client ID:	NS-WEST-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 2-12" | Lab Sample ID: 480-127239-11

Matrix: Solid | Lab File ID: 6_03-288.D

Analysis Method: 8082A | Date Collected: 11/07/2017 15:20

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.85(g) | Date Analyzed: 11/10/2017 17:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 13.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.040
11104-28-2	PCB-1221	ND		0.20	0.040
11141-16-5	PCB-1232	ND		0.20	0.040
53469-21-9	PCB-1242	ND		0.20	0.040
12672-29-6	PCB-1248	ND		0.20	0.040
11097-69-1	PCB-1254	ND		0.20	0.095
11096-82-5	PCB-1260	5.7		0.20	0.095
37324-23-5	PCB-1262	ND		0.20	0.095
11100-14-4	PCB-1268	ND		0.20	0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	144		60-154
2051-24-3	DCB Decachlorobiphenyl	119		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-288.D
Lims ID: 480-127239-A-11-B
Client ID: NS-SBN-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 17:13:43 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 17:41:11 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 17:41:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.187	1.186	0.001	17603337	0.5000	
2	1.184	1.183	0.001	18325592	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	1095869	0.0287	
2	1.872	1.869	0.003	1173899	0.0246	
					RPD = 15.41	
11 PCB-1260						
1	4.663	4.660	0.002	2347265	1.39	
1	4.848	4.843	0.005	2669324	1.42	
1	5.078	5.077	0.001	3793042	1.49	
1	5.603	5.601	0.002	3483454	1.33	
1	5.846	5.843	0.004	1900527	1.35	
		Average of Peak Amounts =			1.39	
2	4.879	4.877	0.002	3366842	1.67	
2	4.927	4.925	0.002	1454427	1.30	
2	5.194	5.190	0.004	1647723	1.23	
2	5.328	5.326	0.002	4295845	1.38	
2	5.665	5.663	0.003	2594876	1.38	
		Average of Peak Amounts =			1.39	
					RPD = 0.16	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.846	5.843	0.004	1900527	NR	
2	5.194	5.190	0.004	1647723	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.902	5.902	0.000	410051	NR	
2	5.259	5.257	0.002	1407547	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.949	5.945	0.004	593299	NR	
2	5.328	5.326	0.002	4295845	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.989	6.987	0.002	509392	0.0239	
2	6.624	6.620	0.004	634554	0.0270	
					RPD = 12.23	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

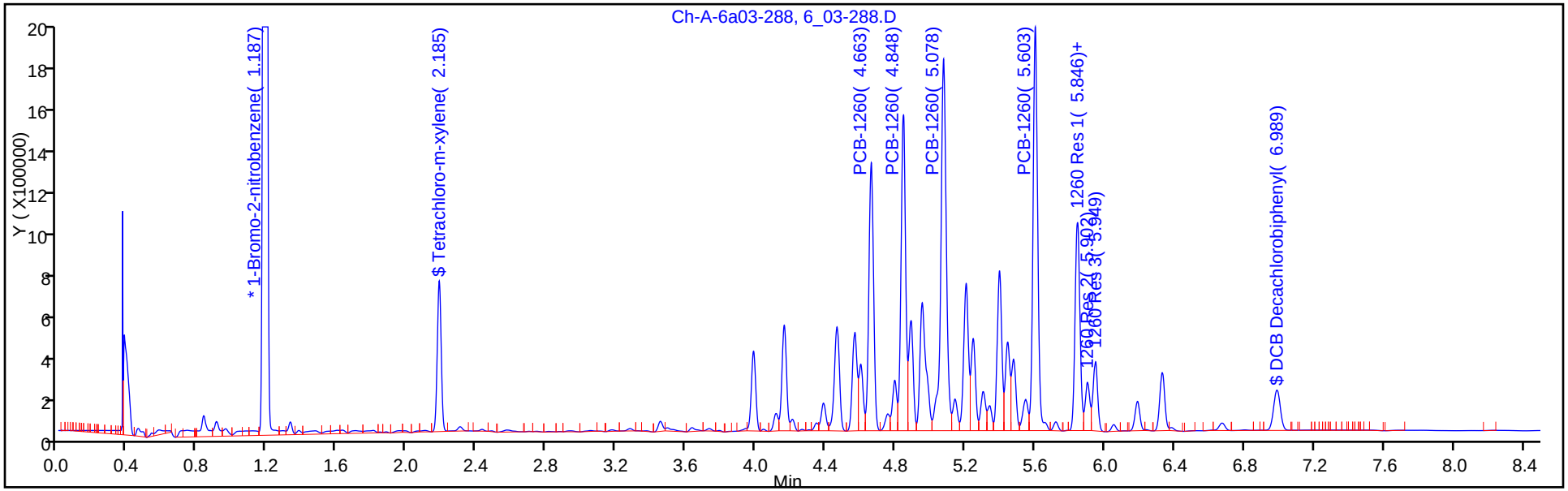
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TestAmerica Buffalo

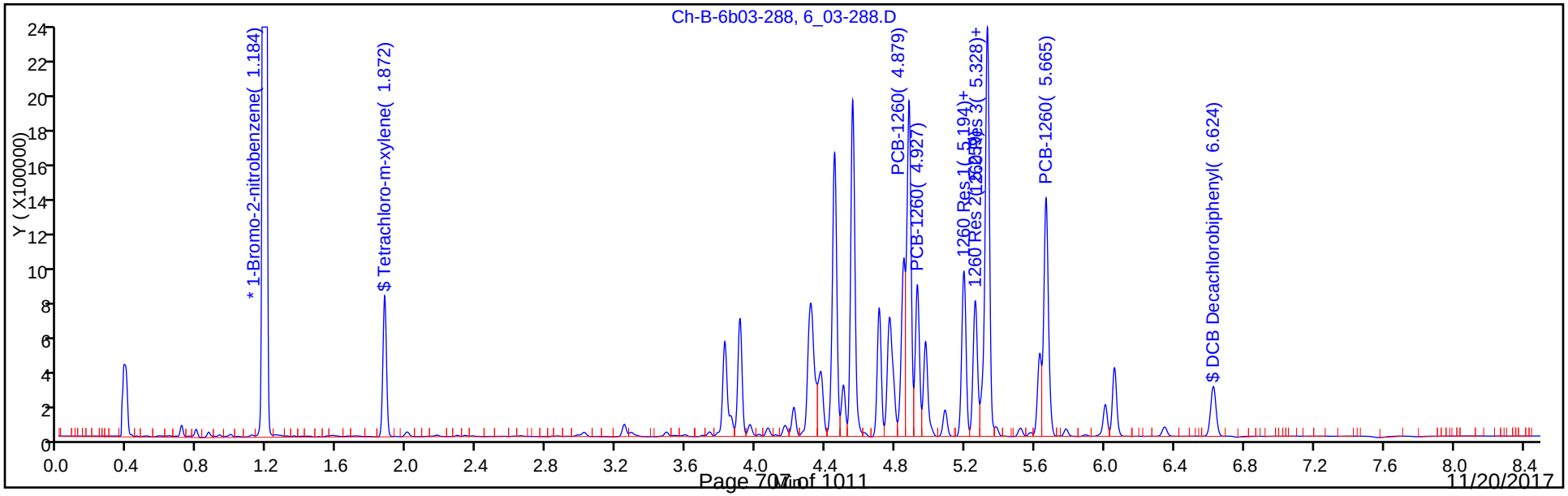
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Injection Date:	10-Nov-2017 17:13:43	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-11-B	Lab Sample ID:	480-127239-11	Worklist Smp#:	26
Client ID:	NS-SBN-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SBN-SOIL 2-12" | Lab Sample ID: 480-127239-11

Matrix: Solid | Lab File ID: 6_03-288.D

Analysis Method: 8082A | Date Collected: 11/07/2017 15:20

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.85(g) | Date Analyzed: 11/10/2017 17:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 13.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	123		60-154
2051-24-3	DCB Decachlorobiphenyl	135		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-288.D
Lims ID: 480-127239-A-11-B
Client ID: NS-SBN-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 17:13:43 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 17:41:11 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 17:41:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.187	1.186	0.001	17603337	0.5000	
2	1.184	1.183	0.001	18325592	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.185	2.183	0.003	1095869	0.0287	
2	1.872	1.869	0.003	1173899	0.0246	
					RPD = 15.41	
11 PCB-1260						
1	4.663	4.660	0.002	2347265	1.39	
1	4.848	4.843	0.005	2669324	1.42	
1	5.078	5.077	0.001	3793042	1.49	
1	5.603	5.601	0.002	3483454	1.33	
1	5.846	5.843	0.004	1900527	1.35	
		Average of Peak Amounts =			1.39	
2	4.879	4.877	0.002	3366842	1.67	
2	4.927	4.925	0.002	1454427	1.30	
2	5.194	5.190	0.004	1647723	1.23	
2	5.328	5.326	0.002	4295845	1.38	
2	5.665	5.663	0.003	2594876	1.38	
		Average of Peak Amounts =			1.39	
					RPD = 0.16	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.846	5.843	0.004	1900527	NR	
2	5.194	5.190	0.004	1647723	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.902	5.902	0.000	410051	NR	
2	5.259	5.257	0.002	1407547	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.949	5.945	0.004	593299	NR	
2	5.328	5.326	0.002	4295845	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.989	6.987	0.002	509392	0.0239	
2	6.624	6.620	0.004	634554	0.0270	
					RPD = 12.23	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

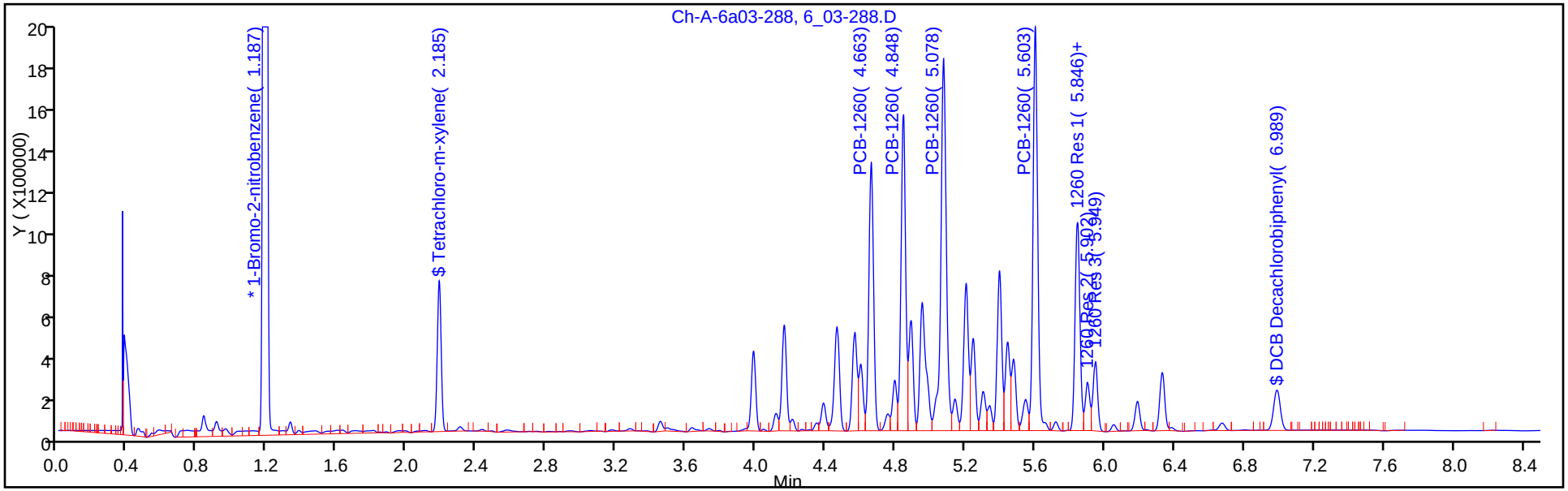
Report Date: 10-Nov-2017 17:41:13 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

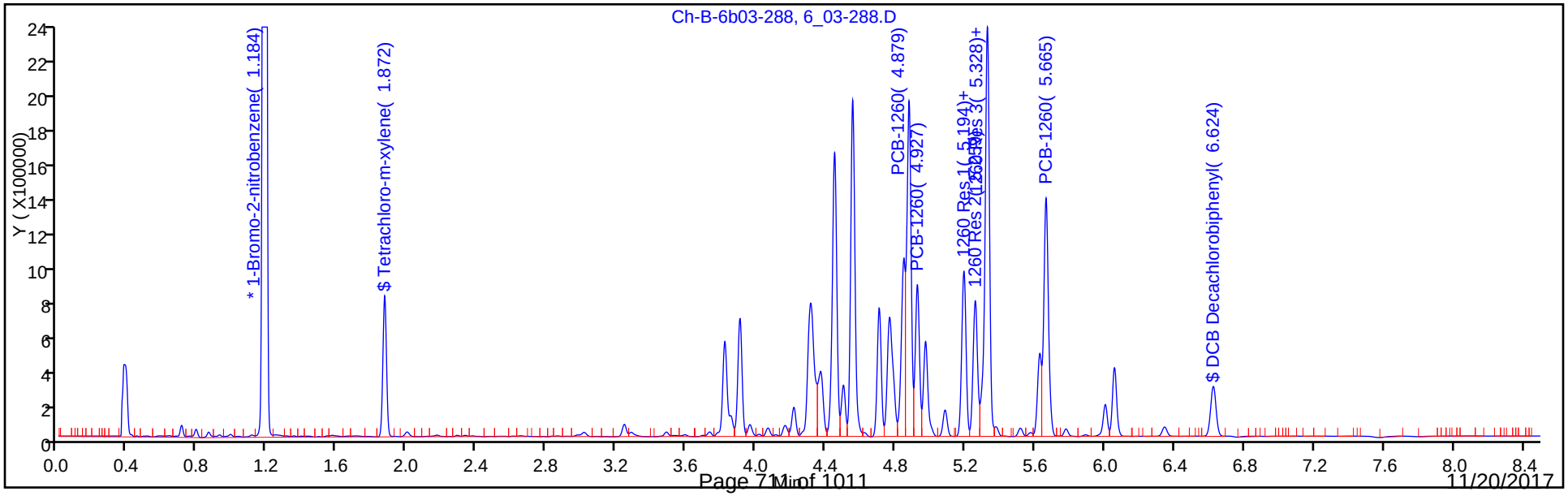
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-288.D

Injection Date:	10-Nov-2017 17:13:43	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-11-B	Lab Sample ID:	480-127239-11	Worklist Smp#:	26
Client ID:	NS-SBN-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 2-12" | Lab Sample ID: 480-127239-12

Matrix: Solid | Lab File ID: 6_03-289.D

Analysis Method: 8082A | Date Collected: 11/07/2017 00:00

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.86(g) | Date Analyzed: 11/10/2017 17:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.041
11104-28-2	PCB-1221	ND		0.21	0.041
11141-16-5	PCB-1232	ND		0.21	0.041
53469-21-9	PCB-1242	ND		0.21	0.041
12672-29-6	PCB-1248	ND		0.21	0.041
11097-69-1	PCB-1254	ND		0.21	0.097
11096-82-5	PCB-1260	0.93		0.21	0.097
37324-23-5	PCB-1262	ND		0.21	0.097
11100-14-4	PCB-1268	ND		0.21	0.097

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	122		60-154
2051-24-3	DCB Decachlorobiphenyl	93		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-289.D
Lims ID: 480-127239-A-12-B
Client ID: NS-DUP-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 17:29:40 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 17:48:07 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 17:48:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.186	1.186	0.000	19486228	0.5000	
2	1.184	1.183	0.001	20162534	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.184	2.183	0.002	1032316	0.0245	
2	1.872	1.869	0.003	1060942	0.0202	
					RPD = 18.91	
11 PCB-1260						
1	4.662	4.660	0.002	453698	0.2422	
1	4.847	4.843	0.004	465256	0.2242	
1	5.076	5.077	-0.001	724405	0.2568	
1	5.603	5.601	0.001	568171	0.1954	
1	5.845	5.843	0.003	318367	0.2036	
		Average of Peak Amounts =			0.2244	
2	4.879	4.877	0.002	755917	0.3417	
2	4.927	4.925	0.002	280906	0.2274	
2	5.194	5.190	0.004	344827	0.2338	
2	5.329	5.326	0.003	737237	0.2156	
2	5.665	5.663	0.003	449370	0.2170	
		Average of Peak Amounts =			0.2471	
					RPD = 9.61	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.845	5.843	0.003	318367	NR	
2	5.194	5.190	0.004	344827	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.902	5.902	0.000	73919	NR	
2	5.259	5.257	0.002	273343	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.948	5.945	0.003	102571	NR	
2	5.329	5.326	0.003	737237	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.990	6.987	0.003	441406	0.0187	
2	6.624	6.620	0.004	565823	0.0217	
					RPD = 15.20	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

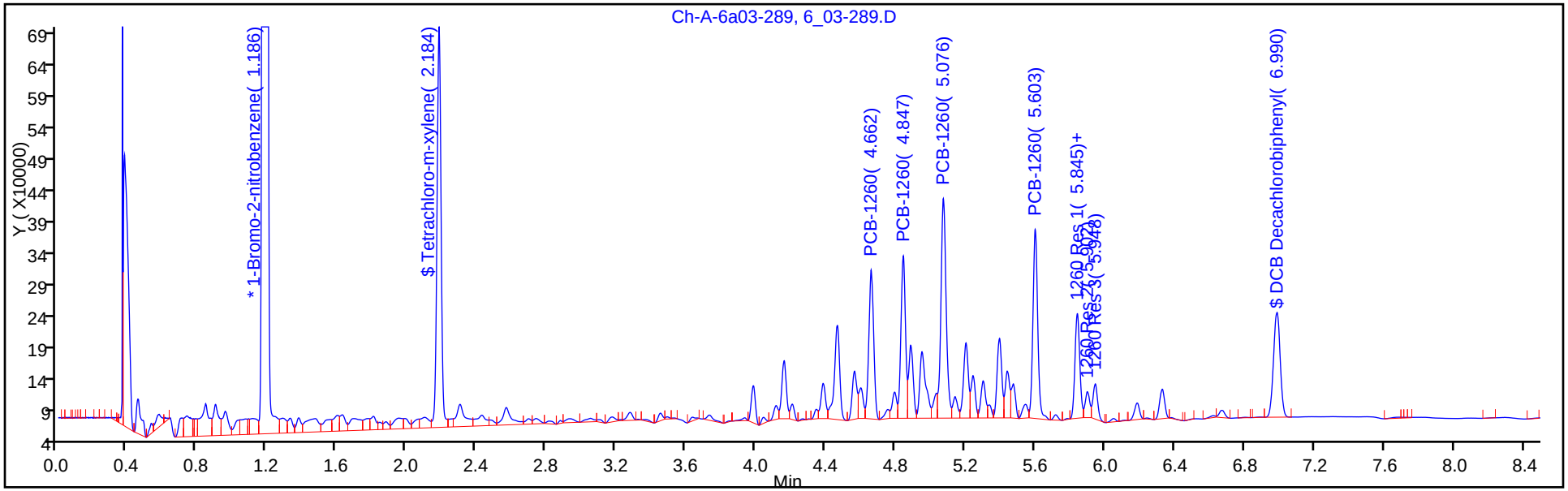
Report Date: 10-Nov-2017 17:48:07 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

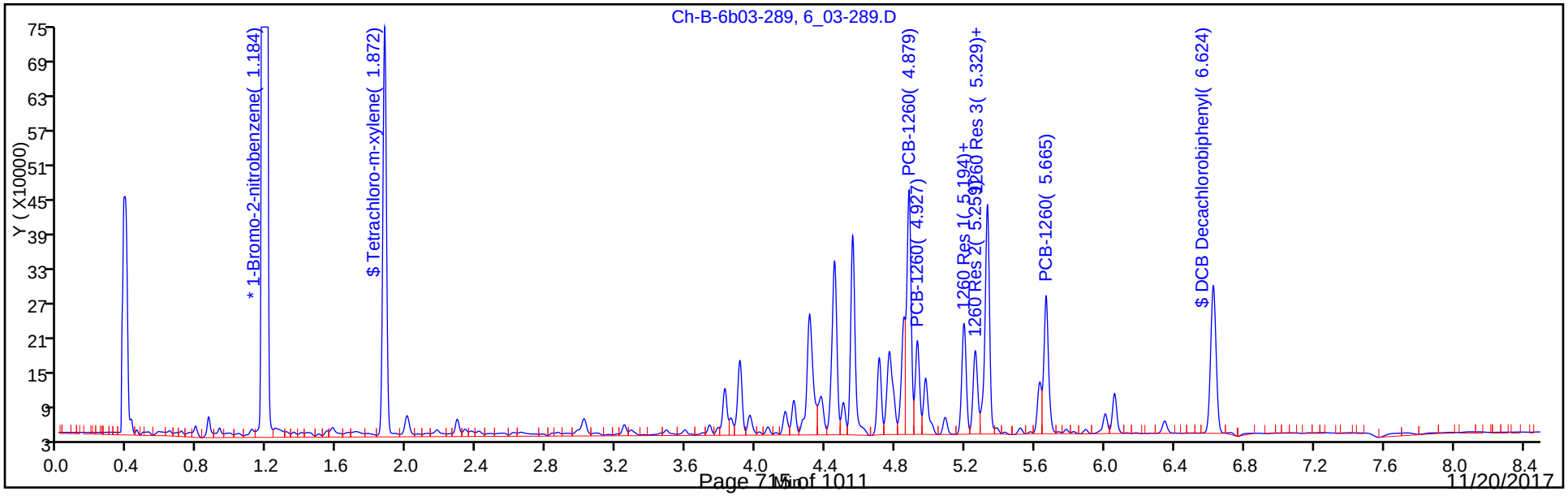
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-289.D

Injection Date:	10-Nov-2017 17:29:40	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-12-B	Lab Sample ID:	480-127239-12	Worklist Smp#:	27
Client ID:	NS-DUP-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-DUP-SOIL 2-12" | Lab Sample ID: 480-127239-12

Matrix: Solid | Lab File ID: 6_03-289.D

Analysis Method: 8082A | Date Collected: 11/07/2017 00:00

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.86(g) | Date Analyzed: 11/10/2017 17:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		60-154
2051-24-3	DCB Decachlorobiphenyl	109		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-289.D
Lims ID: 480-127239-A-12-B
Client ID: NS-DUP-SOIL 2-12"
Sample Type: Client
Inject. Date: 10-Nov-2017 17:29:40 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 17:48:07 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 17:48:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.186	1.186	0.000	19486228	0.5000	
2	1.184	1.183	0.001	20162534	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	2.184	2.183	0.002	1032316	0.0245	
2	1.872	1.869	0.003	1060942	0.0202	
					RPD = 18.91	
11 PCB-1260						
1	4.662	4.660	0.002	453698	0.2422	
1	4.847	4.843	0.004	465256	0.2242	
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1	5.603	5.601	0.001	568171	0.1954	
1	5.845	5.843	0.003	318367	0.2036	
		Average of Peak Amounts =			0.2244	
2	4.879	4.877	0.002	755917	0.3417	
2	4.927	4.925	0.002	280906	0.2274	
2	5.194	5.190	0.004	344827	0.2338	
2	5.329	5.326	0.003	737237	0.2156	
2	5.665	5.663	0.003	449370	0.2170	
		Average of Peak Amounts =			0.2471	
					RPD = 9.61	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.845	5.843	0.003	318367	NR	
2	5.194	5.190	0.004	344827	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.902	5.902	0.000	73919	NR	
2	5.259	5.257	0.002	273343	NR	
					RPD = NaN	
12 1260 Res 3						
1	5.948	5.945	0.003	102571	NR	
2	5.329	5.326	0.003	737237	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.990	6.987	0.003	441406	0.0187	
2	6.624	6.620	0.004	565823	0.0217	
					RPD = 15.20	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

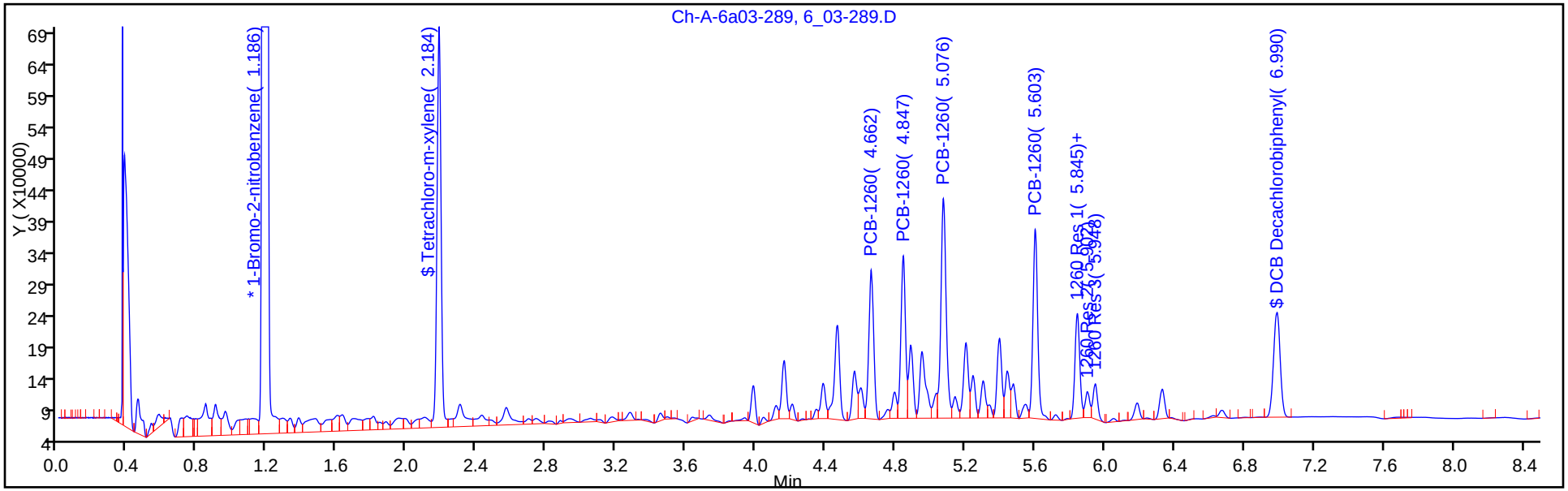
Report Date: 10-Nov-2017 17:48:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

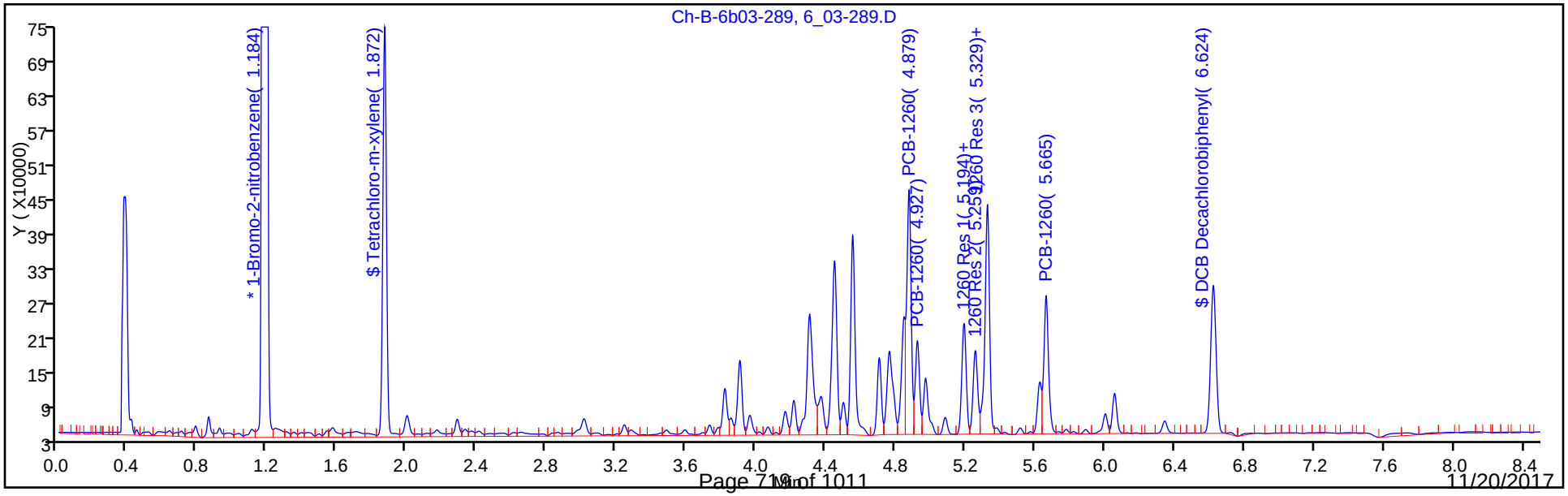
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-289.D

Injection Date:	10-Nov-2017 17:29:40	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-12-B	Lab Sample ID:	480-127239-12	Worklist Smp#:	27
Client ID:	NS-DUP-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 14:46 Calibration End Date: 10/28/2017 16:22 Calibration ID: 31845

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/12	6_02-276.D
Level 2	IC 480-384409/11	6_02-275.D
Level 3	IC 480-384409/10	6_02-274.D
Level 4	IC 480-384409/9	6_02-273.D
Level 5	ICIS 480-384409/8	6_02-272.D
Level 6	IC 480-384409/7	6_02-271.D
Level 7	IC 480-384409/6	6_02-270.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0250 0.0336	0.0354 0.0243	0.0339	0.0309	0.0348	Ave		0.0311				14.9		20.0			
PCB-1016 Peak 2	0.0141 0.0210	0.0225 0.0153	0.0229	0.0190	0.0214	Ave		0.0195				18.0		20.0			
PCB-1016 Peak 3	0.0774 0.0784	0.0866 0.0611	0.0804	0.0689	0.0786	Ave		0.0759				11.0		20.0			
PCB-1016 Peak 4	0.0319 0.0292	0.0346 0.0222	0.0311	0.0265	0.0299	Ave		0.0293				13.7		20.0			
PCB-1016 Peak 5	0.0215 0.0203	0.0239 0.0154	0.0212	0.0180	0.0205	Ave		0.0201				13.6		20.0			
PCB-1260 Peak 1	0.0550 0.0464	0.0535 0.0417	0.0481	0.0430	0.0486	Ave		0.0481				10.3		20.0			
PCB-1260 Peak 2	0.0610 0.0525	0.0598 0.0478	0.0534	0.0481	0.0501	Ave		0.0532				10.0		20.0			
PCB-1260 Peak 3	0.0713 0.0767	0.0771 0.0689	0.0729	0.0664	0.0735	Ave		0.0724				5.4		20.0			
PCB-1260 Peak 4	0.0744 0.0781	0.0794 0.0737	0.0744	0.0688	0.0735	Ave		0.0746				4.6		20.0			
PCB-1260 Peak 5	0.0442 0.0399	0.0444 0.0366	0.0407	0.0369	0.0381	Ave		0.0401				8.0		20.0			
Tetrachloro-m-xylene	1.2509 1.0893	1.1438 0.9645	1.0612	0.9993	1.0699	Ave		1.0827				8.7		20.0			
DCB Decachlorobiphenyl	0.6339 0.5918	0.6553 0.5376	0.6467	0.5895	0.5912	Ave		0.6066				6.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 14:46 Calibration End Date: 10/28/2017 16:22 Calibration ID: 31845

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/12	6_02-276.D
Level 2	IC 480-384409/11	6_02-275.D
Level 3	IC 480-384409/10	6_02-274.D
Level 4	IC 480-384409/9	6_02-273.D
Level 5	ICIS 480-384409/8	6_02-272.D
Level 6	IC 480-384409/7	6_02-271.D
Level 7	IC 480-384409/6	6_02-270.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	17504 1208721	57628 1843616	120711	237351	628357	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Ave	9842 755702	36677 1160460	81580	146212	386662	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Ave	54135 2819337	141161 4629873	286116	529317	1419920	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Ave	22311 1051278	56385 1679983	110496	203209	540286	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Ave	15047 729577	39002 1165196	75470	138490	369984	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Ave	38465 1668583	87220 3161688	171261	330276	878311	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Ave	42698 1885989	97476 3621647	189937	369440	905311	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Ave	49891 2756619	125630 5222252	259518	509897	1326338	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Ave	52012 2809602	129418 5585696	264897	528253	1327662	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Ave	30907 1432952	72428 2777467	144837	283313	688243	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Ave	21873 979119	46614 1827563	94402	191867	482924	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Ave	11084 531907	26706 1018669	57533	113172	266851	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-270.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Oct-2017 14:46:11 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 14:06:16 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 14:04:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	18947990	0.5000	0.5000	
2	1.193	1.193	0.000	21348527	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.199	2.199	0.000	1827563	0.0500	0.0445	M
2	1.884	1.884	0.000	2381403	0.0500	0.0429	
						RPD = 3.75	
6 PCB-1016							M
1	2.824	2.824	0.000	1843616	2.00	1.56	M
1	2.982	2.982	0.000	1160460	2.00	1.57	M
1	3.195	3.195	0.000	4629873	2.00	1.61	M
1	3.283	3.283	0.000	1679983	2.00	1.51	M
1	3.348	3.348	0.000	1165196	2.00	1.53	M
		Average of Peak Amounts =				1.56	
2	2.675	2.675	0.000	2793399	2.00	1.47	
2	3.004	3.004	0.000	6357146	2.00	1.65	
2	3.126	3.126	0.000	2361803	2.00	1.59	
2	3.226	3.226	0.000	1492791	2.00	1.65	
2	3.515	3.515	0.000	2769560	2.00	1.57	
		Average of Peak Amounts =				1.58	
						RPD = 1.76	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.688	4.688	0.000	3161688	2.00	1.74	
1	4.873	4.873	0.000	3621647	2.00	1.79	
1	5.107	5.107	0.000	5222252	2.00	1.90	
1	5.635	5.635	0.000	5585696	2.00	1.98	a
1	5.878	5.878	0.000	2777467	2.00	1.83	a
		Average of Peak Amounts =				1.85	
2	4.915	4.915	0.000	4130795	2.00	1.76	
2	4.963	4.963	0.000	2151057	2.00	1.64	
2	5.231	5.231	0.000	2725235	2.00	1.75	
2	5.366	5.366	0.000	6550461	2.00	1.81	
2	5.705	5.705	0.000	3840870	2.00	1.75	
		Average of Peak Amounts =				1.74	
						RPD = 5.82	
$ 15 DCB Decachlorobiphenyl							
1	7.042	7.042	0.000	1018669	0.0500	0.0443	
2	6.678	6.678	0.000	1282247	0.0500	0.0472	
						RPD = 6.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00007 Amount Added: 1.00 Units: mL

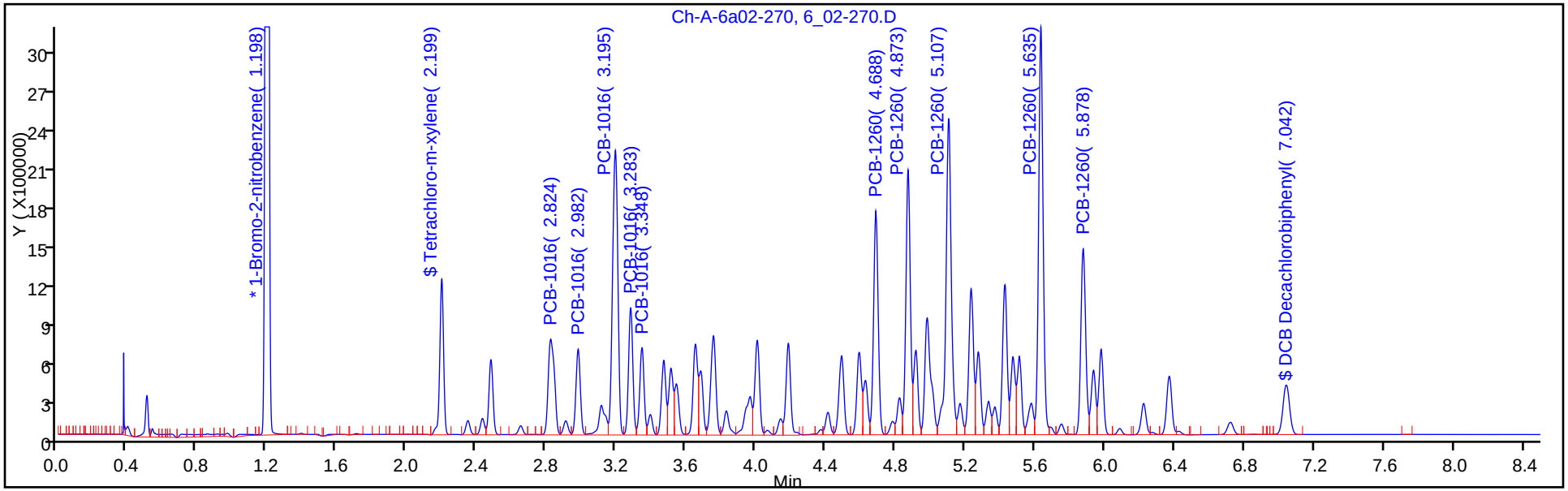
Report Date: 30-Oct-2017 14:06:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

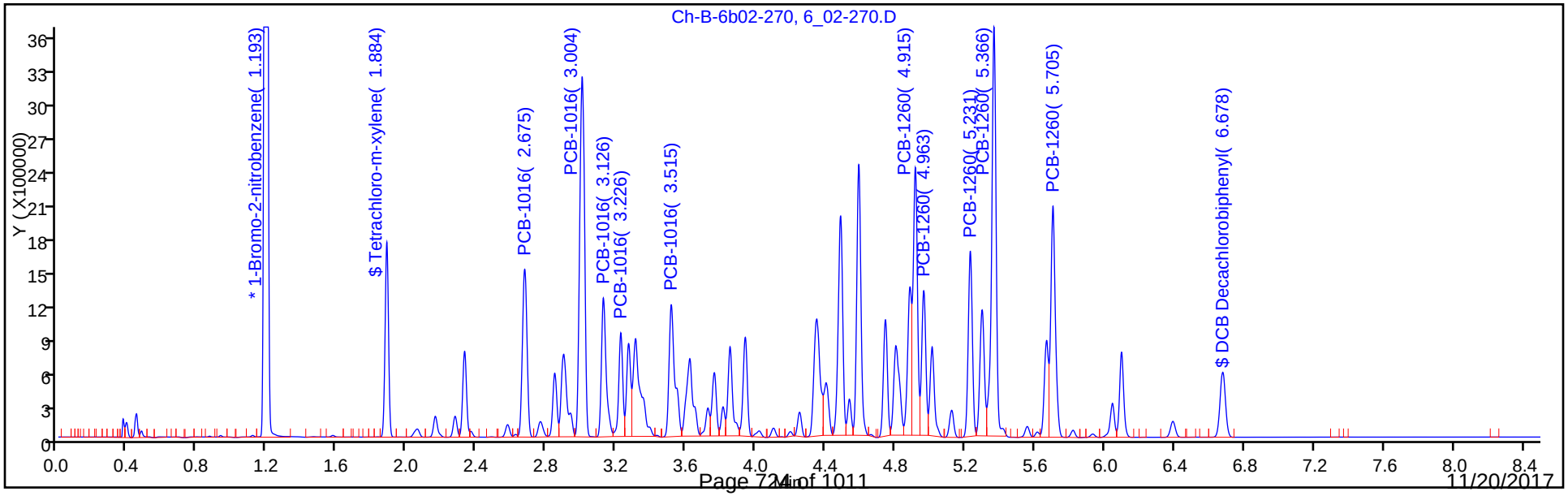
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Injection Date:	28-Oct-2017 14:46:11	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

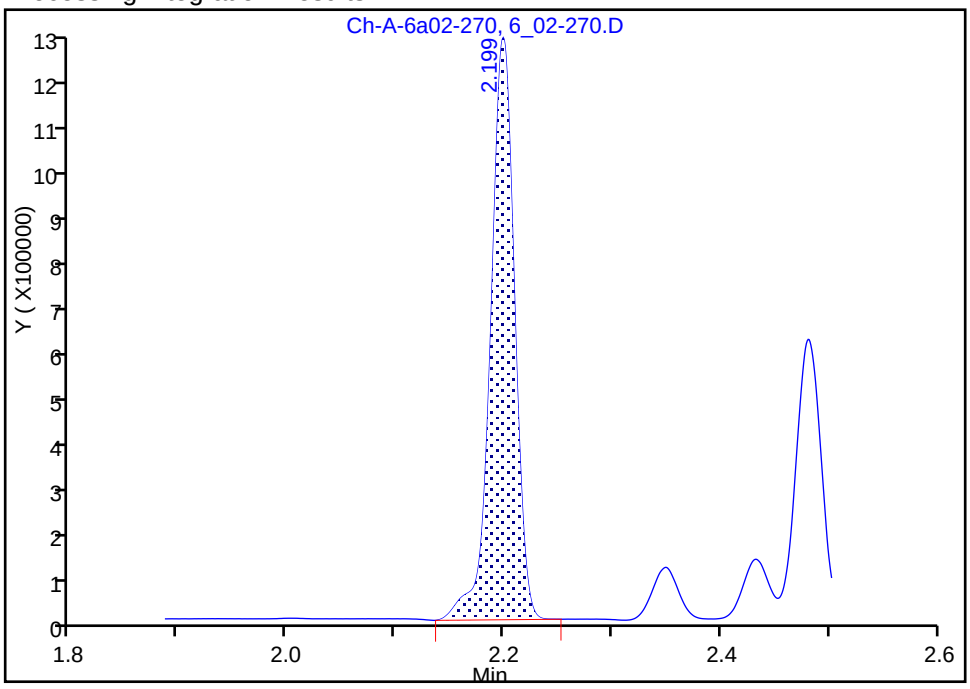
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Injection Date: 28-Oct-2017 14:46:11 Instrument ID: HP6890-6
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

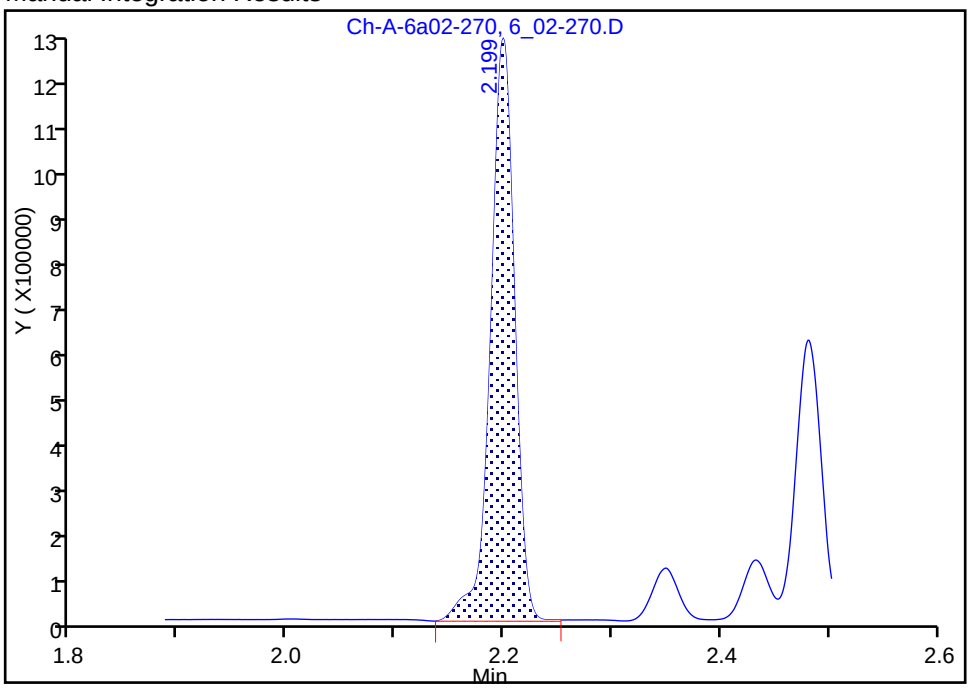
Processing Integration Results

RT: 2.20
Area: 1818434
Amount: 0.047597
Amount Units: ng/uL



Manual Integration Results

RT: 2.20
Area: 1827563
Amount: 0.044542
Amount Units: ng/uL



Reviewer: owenj, 30-Oct-2017 10:25:49
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 14:06:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-270.D

Injection Date: 28-Oct-2017 14:46:11 Instrument ID: HP6890-6

Lims ID: IC 7

Client ID:

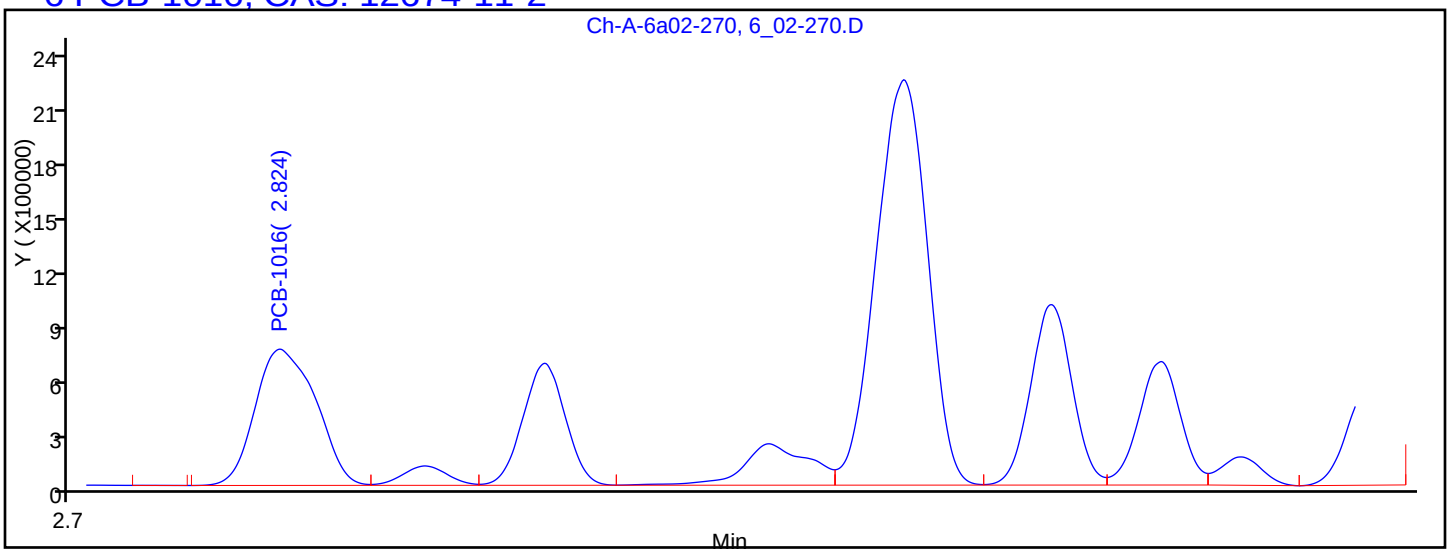
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

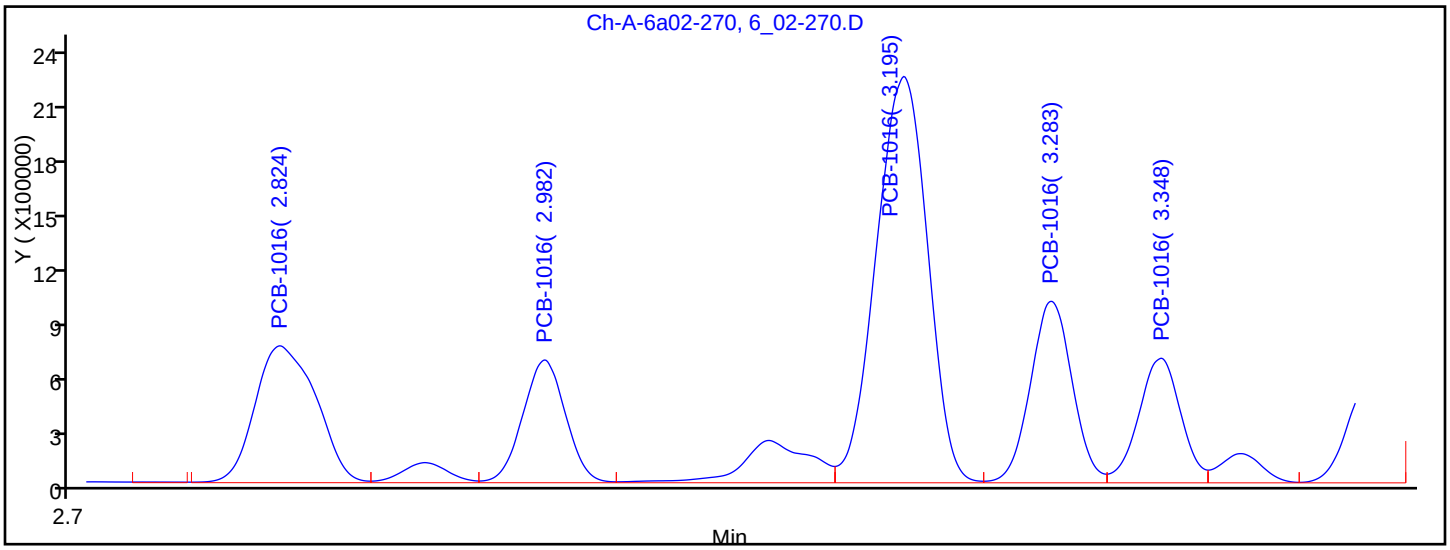
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.824	Response = 1823636
3.195	Response = 4602162
3.283	Response = 1655145
3.348	Response = 1143638
3.473	Response = 1000336



Manual Integration Results

2.824	Response = 1843616	M
2.982	Response = 1160460	M
3.195	Response = 4629873	M
3.283	Response = 1679983	M
3.348	Response = 1165196	M

Reviewer: owenj, 30-Oct-2017 10:25:49

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-271.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Oct-2017 15:02:11 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:31 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:25:29

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	17976942	0.5000	0.5000	
2	1.194	1.194	0.000	20528745	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.199	2.199	0.000	979119	0.0250	0.0252	M
2	1.886	1.886	0.000	1315030	0.0250	0.0246	
						RPD = 2.07	
6 PCB-1016							M
1	2.823	2.823	0.000	1208721	1.00	1.08	M
1	2.982	2.982	0.000	755702	1.00	1.08	M
1	3.194	3.194	0.000	2819337	1.00	1.03	M
1	3.283	3.283	0.000	1051278	1.00	1.00	M
1	3.348	3.348	0.000	729577	1.00	1.01	M
		Average of Peak Amounts =				1.04	
2	2.676	2.676	0.000	1578891	1.00	0.8638	
2	3.008	3.008	0.000	3461043	1.00	0.9335	
2	3.128	3.128	0.000	1298221	1.00	0.9071	
2	3.228	3.228	0.000	841186	1.00	0.9640	
2	3.518	3.518	0.000	1529034	1.00	0.9026	
		Average of Peak Amounts =				0.9142	
						RPD = 12.83	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.688	4.688	0.000	1668583	1.00	0.9657	
1	4.874	4.874	0.000	1885989	1.00	0.9852	
1	5.106	5.106	0.000	2756619	1.00	1.06	
1	5.634	5.634	0.000	2809602	1.00	1.05	
1	5.876	5.876	0.000	1432952	1.00	0.99	
		Average of Peak Amounts =				1.01	
2	4.916	4.916	0.000	2168214	1.00	0.9626	
2	4.964	4.964	0.000	1171115	1.00	0.9311	
2	5.230	5.230	0.000	1457038	1.00	0.9703	
2	5.368	5.368	0.000	3405799	1.00	0.9780	
2	5.706	5.706	0.000	2032190	1.00	0.9639	
		Average of Peak Amounts =				0.9612	
						RPD = 4.97	
$ 15 DCB Decachlorobiphenyl							
1	7.043	7.043	0.000	531907	0.0250	0.0244	
2	6.681	6.681	0.000	695476	0.0250	0.0264	
						RPD = 7.79	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00008 Amount Added: 1.00 Units: mL

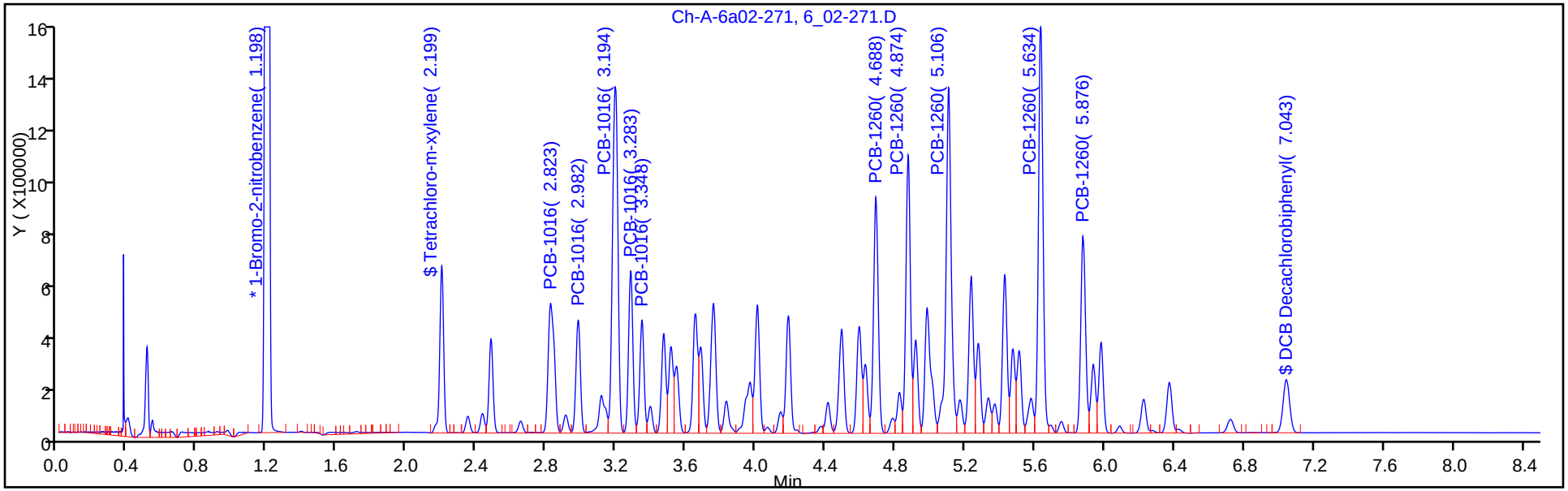
Report Date: 30-Oct-2017 12:28:32 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

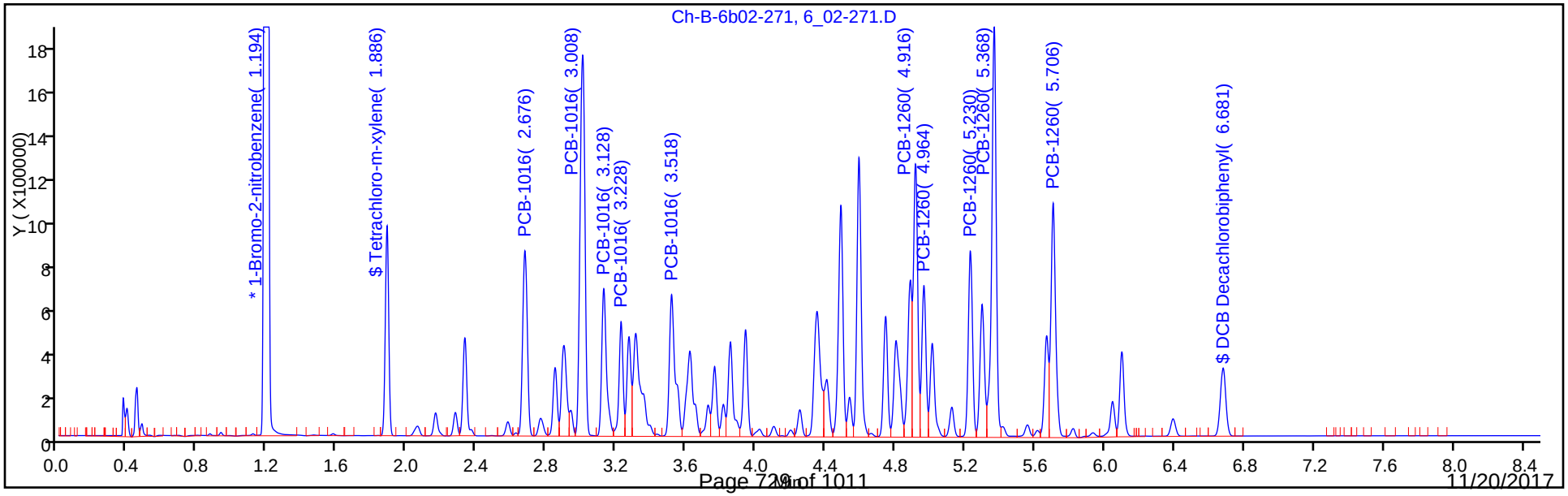
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-271.D

Injection Date:	28-Oct-2017 15:02:11	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

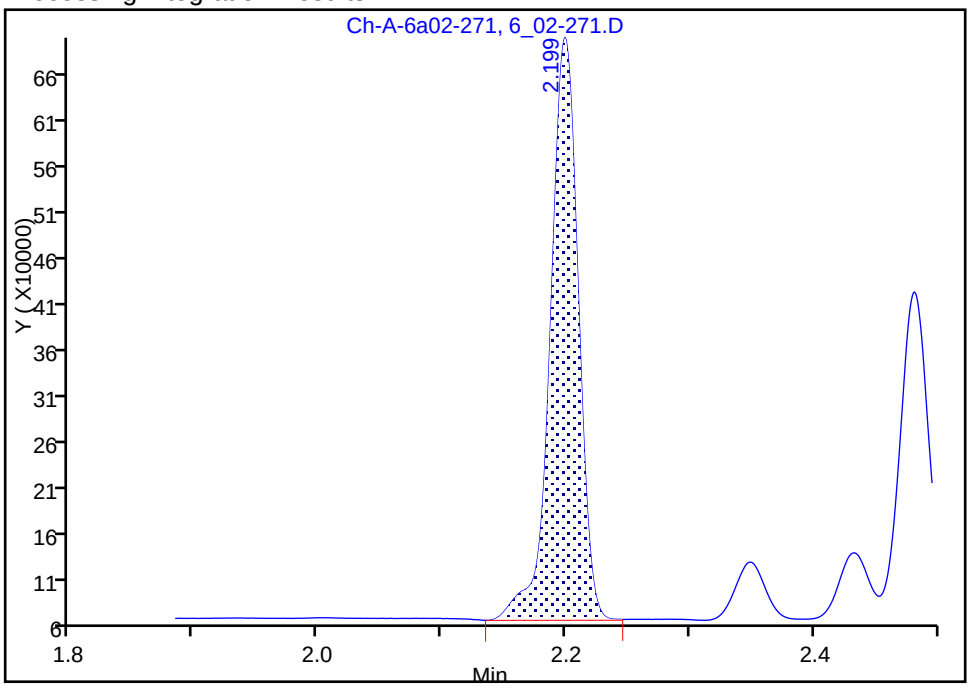
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-271.D
Injection Date: 28-Oct-2017 15:02:11 Instrument ID: HP6890-6
Lims ID: IC 6
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

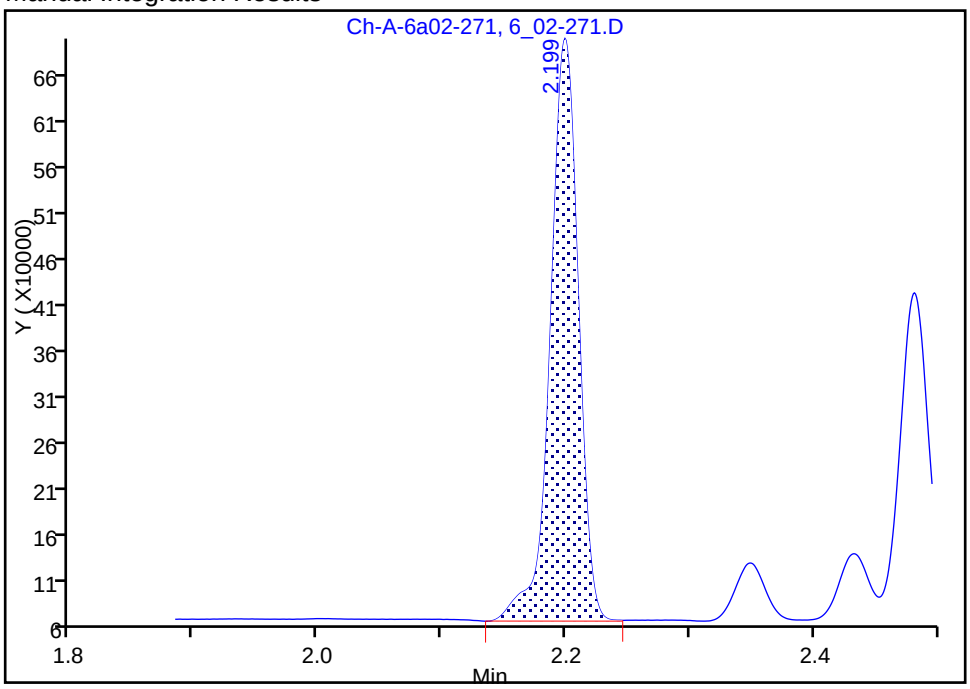
Processing Integration Results

RT: 2.20
Area: 979648
Amount: 0.026957
Amount Units: ng/uL



Manual Integration Results

RT: 2.20
Area: 979119
Amount: 0.025153
Amount Units: ng/uL



Reviewer: owenj, 30-Oct-2017 10:25:26
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:28:32 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-271.D

Injection Date: 28-Oct-2017 15:02:11 Instrument ID: HP6890-6

Lims ID: IC 6

Client ID:

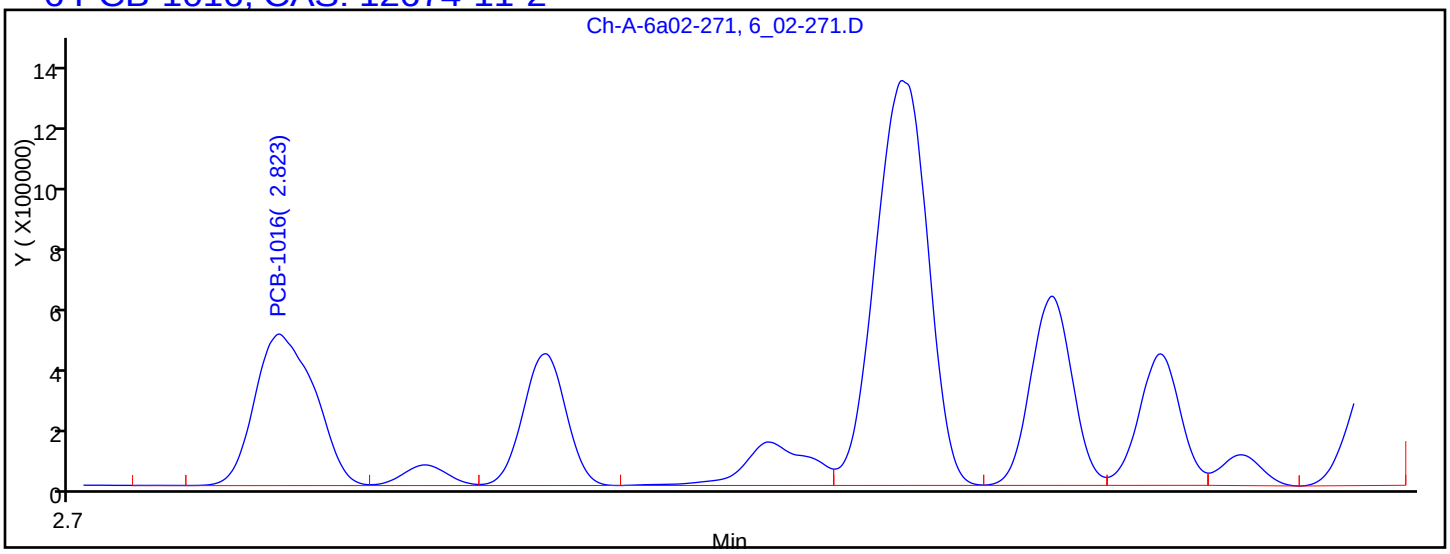
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

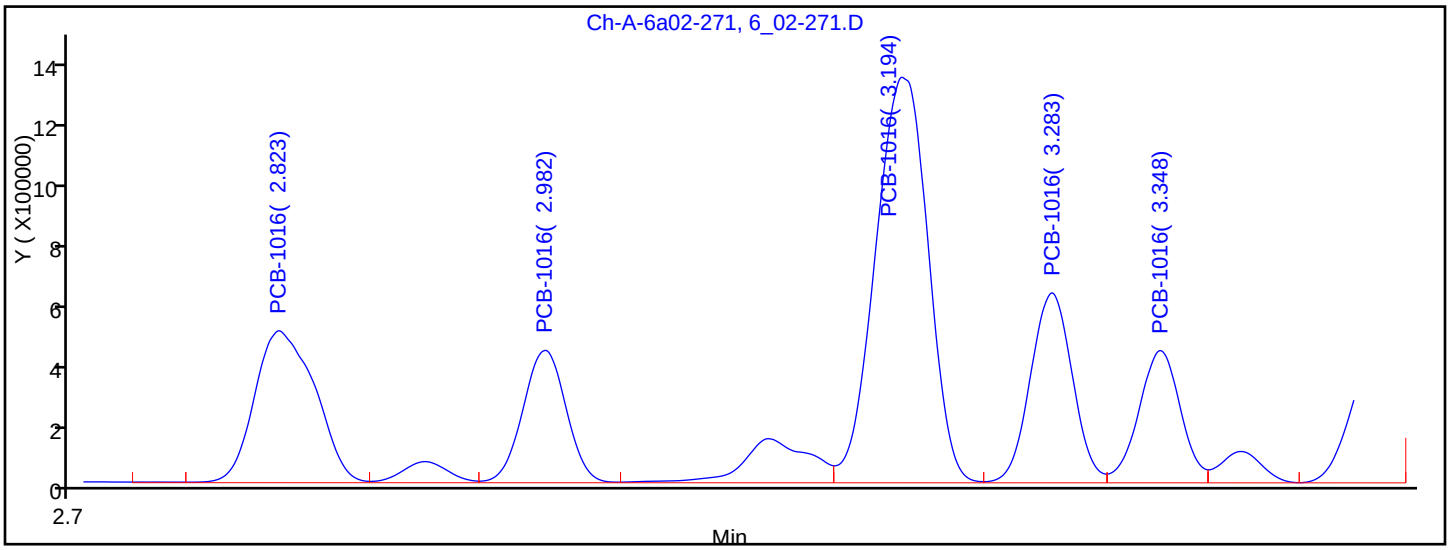
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.823	Response = 1199912
3.194	Response = 2807620
3.283	Response = 1040837
3.348	Response = 720493
3.473	Response = 652632



Manual Integration Results

2.823	Response = 1208721	M
2.982	Response = 755702	M
3.194	Response = 2819337	M
3.283	Response = 1051278	M
3.348	Response = 729577	M

Reviewer: owenj, 30-Oct-2017 10:25:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-272.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-Oct-2017 15:18:12 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 14:07:13 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:21:50

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	18054981	0.5000	0.5000	
2	1.193	1.193	0.000	20467009	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.199	2.199	0.000	482924	0.0125	0.0124	
2	1.886	1.886	0.000	657446	0.0125	0.0124	
						RPD = 0.02	
6 PCB-1016							M
1	2.823	2.823	0.000	628357	0.5000	0.5589	
1	2.982	2.982	0.000	386662	0.5000	0.5500	a
1	3.195	3.195	0.000	1419920	0.5000	0.5179	a
1	3.283	3.283	0.000	540286	0.5000	0.5101	a
1	3.348	3.348	0.000	369984	0.5000	0.5093	a
		Average of Peak Amounts =				0.5292	
2	2.676	2.676	0.000	821700	0.5000	0.4509	M
2	3.007	3.007	0.000	1725944	0.5000	0.4669	M
2	3.128	3.128	0.000	652333	0.5000	0.4572	M
2	3.228	3.228	0.000	422462	0.5000	0.4856	M
2	3.518	3.518	0.000	762362	0.5000	0.4514	M
		Average of Peak Amounts =				0.4624	
						RPD = 13.48	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.689	4.689	0.000	878311	0.5000	0.5061	
1	4.874	4.874	0.000	905311	0.5000	0.4709	
1	5.108	5.108	0.000	1326338	0.5000	0.5074	
1	5.636	5.636	0.000	1327662	0.5000	0.4927	
1	5.878	5.878	0.000	688243	0.5000	0.4751	
		Average of Peak Amounts =				0.4904	
2	4.917	4.917	0.000	1036363	0.5000	0.4615	M
2	4.965	4.965	0.000	571947	0.5000	0.4561	M
2	5.232	5.232	0.000	706199	0.5000	0.4717	M
2	5.368	5.368	0.000	1634202	0.5000	0.4707	M
2	5.706	5.706	0.000	964828	0.5000	0.4590	M
		Average of Peak Amounts =				0.4638	
						RPD = 5.58	
$ 15 DCB Decachlorobiphenyl							
1	7.046	7.046	0.000	266851	0.0125	0.0122	
2	6.681	6.681	0.000	352245	0.0125	0.0131	
						RPD = 7.38	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00014 Amount Added: 1.00 Units: mL

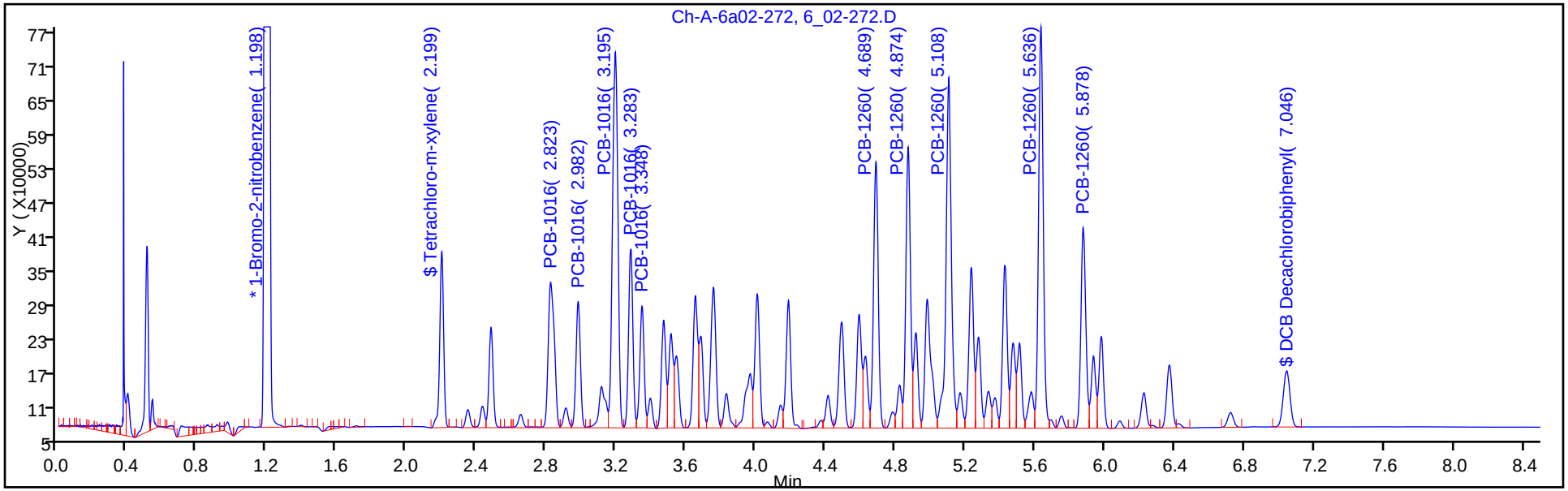
Report Date: 30-Oct-2017 14:07:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

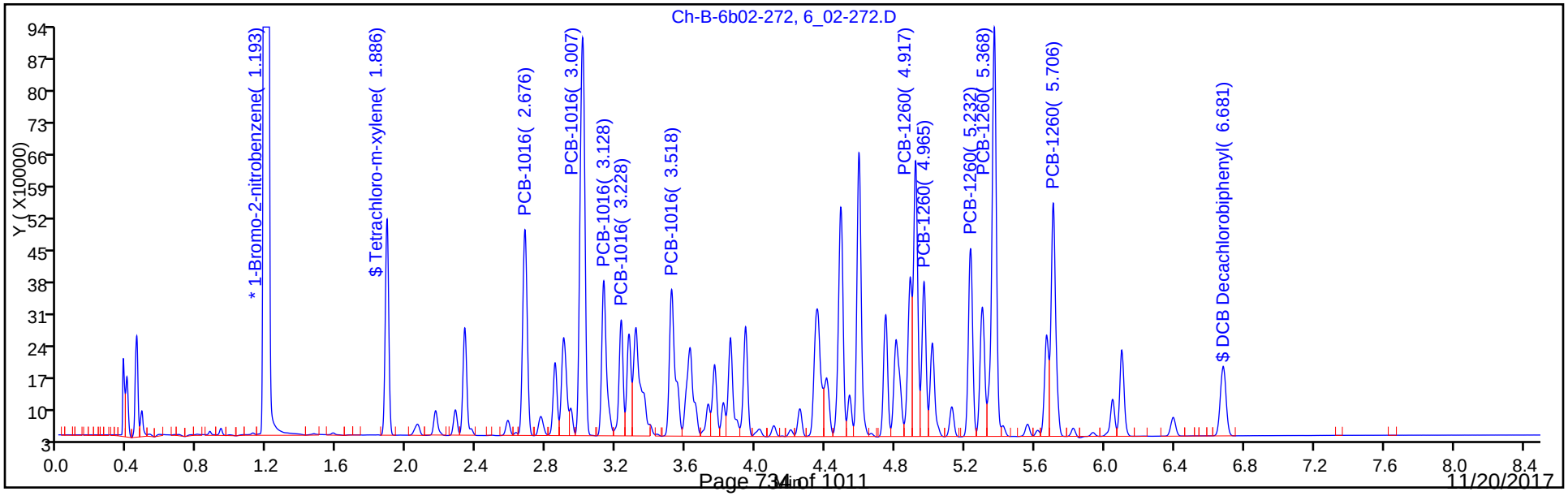
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-272.D

Injection Date:	28-Oct-2017 15:18:12	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-273.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Oct-2017 15:34:24 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:43 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:25:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	19199390	0.5000	0.5000	
2	1.195	1.195	0.000	21380275	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.200	2.200	0.000	191867	0.005000	0.004615	M
2	1.887	1.887	0.000	264742	0.005000	0.004762	
						RPD = 3.14	
6 PCB-1016							M
1	2.824	2.824	0.000	237351	0.2000	0.1985	M
1	2.983	2.983	0.000	146212	0.2000	0.1956	M
1	3.194	3.194	0.000	529317	0.2000	0.1816	M
1	3.283	3.283	0.000	203209	0.2000	0.1804	M
1	3.348	3.348	0.000	138490	0.2000	0.1793	M
		Average of Peak Amounts =				0.1871	
2	2.677	2.677	0.000	364586	0.2000	0.1915	M
2	3.008	3.008	0.000	735045	0.2000	0.1904	M
2	3.129	3.129	0.000	283001	0.2000	0.1899	M
2	3.229	3.229	0.000	173656	0.2000	0.1911	M
2	3.518	3.518	0.000	330218	0.2000	0.1872	M
		Average of Peak Amounts =				0.1900	
						RPD = 1.55	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.690	4.690	0.000	330276	0.2000	0.1790	
1	4.876	4.876	0.000	369440	0.2000	0.1807	
1	5.108	5.108	0.000	509897	0.2000	0.1834	
1	5.636	5.636	0.000	528253	0.2000	0.1844	
1	5.879	5.879	0.000	283313	0.2000	0.1839	
		Average of Peak Amounts =				0.1823	
2	4.919	4.919	0.000	441079	0.2000	0.1880	M
2	4.967	4.967	0.000	246844	0.2000	0.1884	M
2	5.233	5.233	0.000	287737	0.2000	0.1840	M
2	5.370	5.370	0.000	680697	0.2000	0.1877	M
2	5.708	5.708	0.000	412480	0.2000	0.1879	M
		Average of Peak Amounts =				0.1872	
						RPD = 2.66	
$ 15 DCB Decachlorobiphenyl							
1	7.048	7.048	0.000	113172	0.005000	0.004859	
2	6.683	6.683	0.000	163701	0.005000	0.005523	
						RPD = 12.79	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00007 Amount Added: 1.00 Units: mL

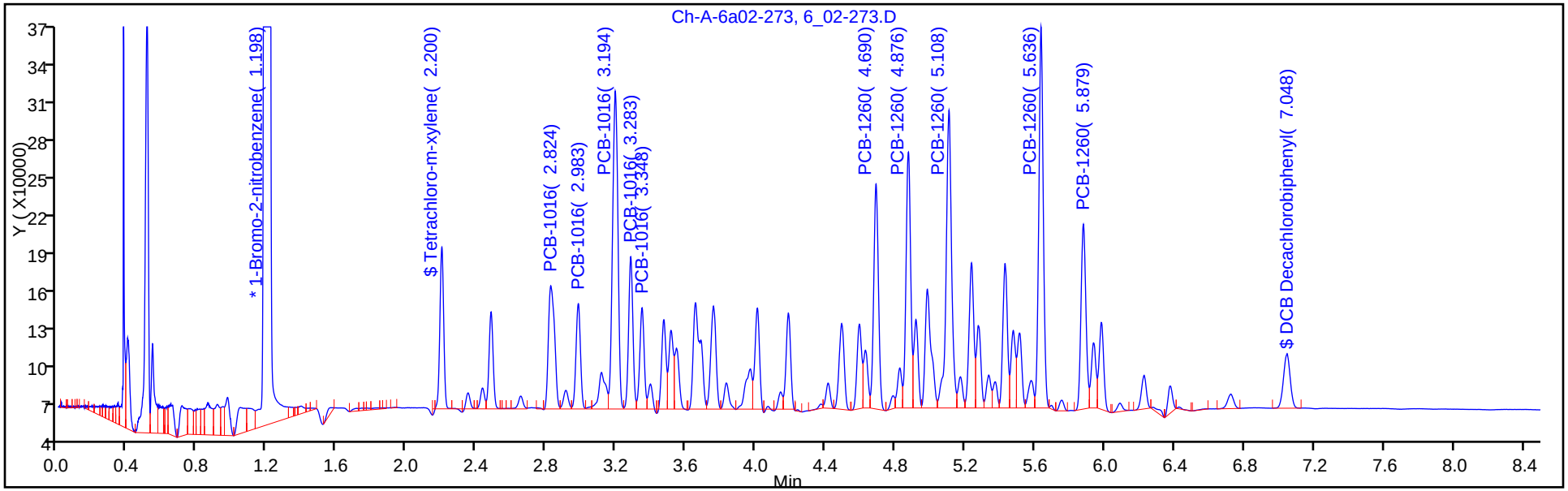
Report Date: 30-Oct-2017 12:28:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

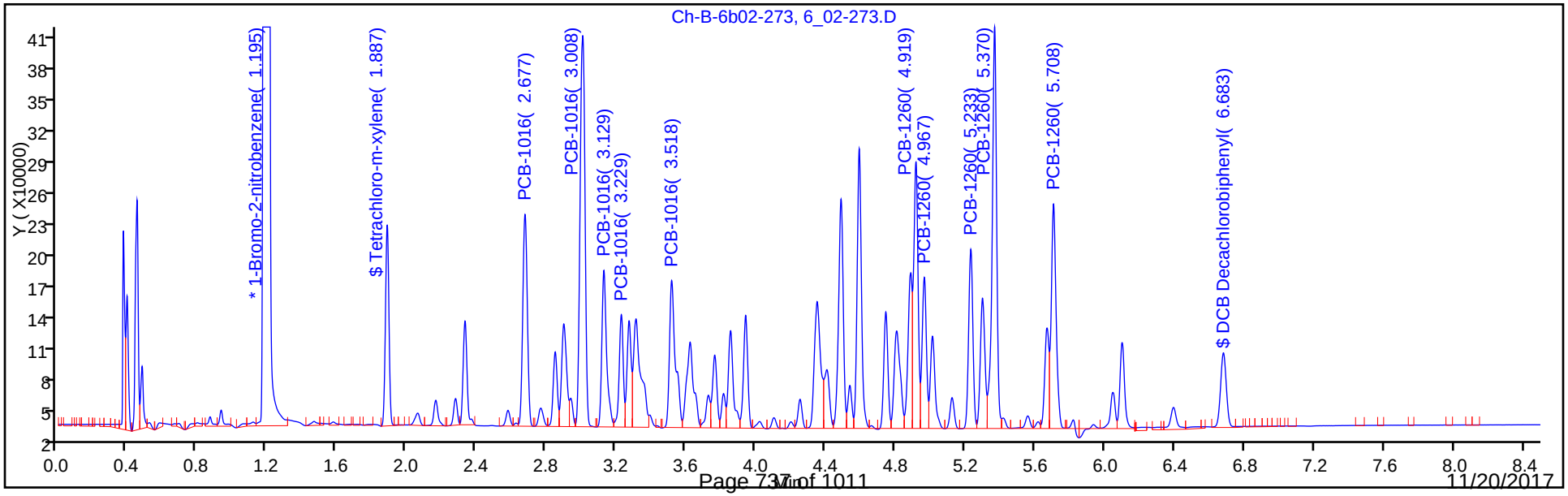
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-273.D

Injection Date:	28-Oct-2017 15:34:24	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

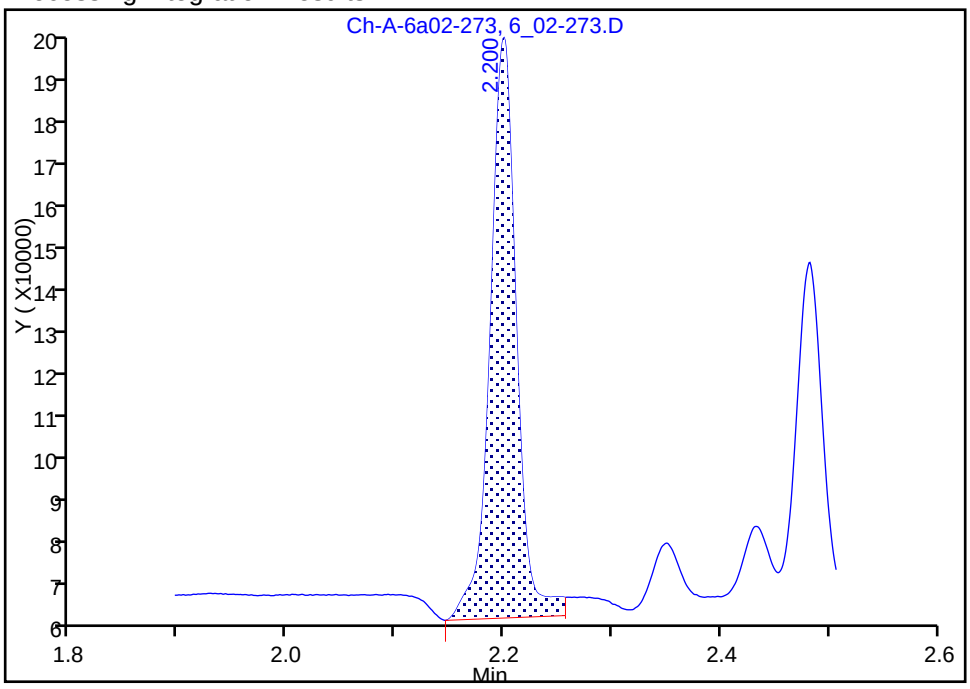
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-273.D
Injection Date: 28-Oct-2017 15:34:24 Instrument ID: HP6890-6
Lims ID: IC 4
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

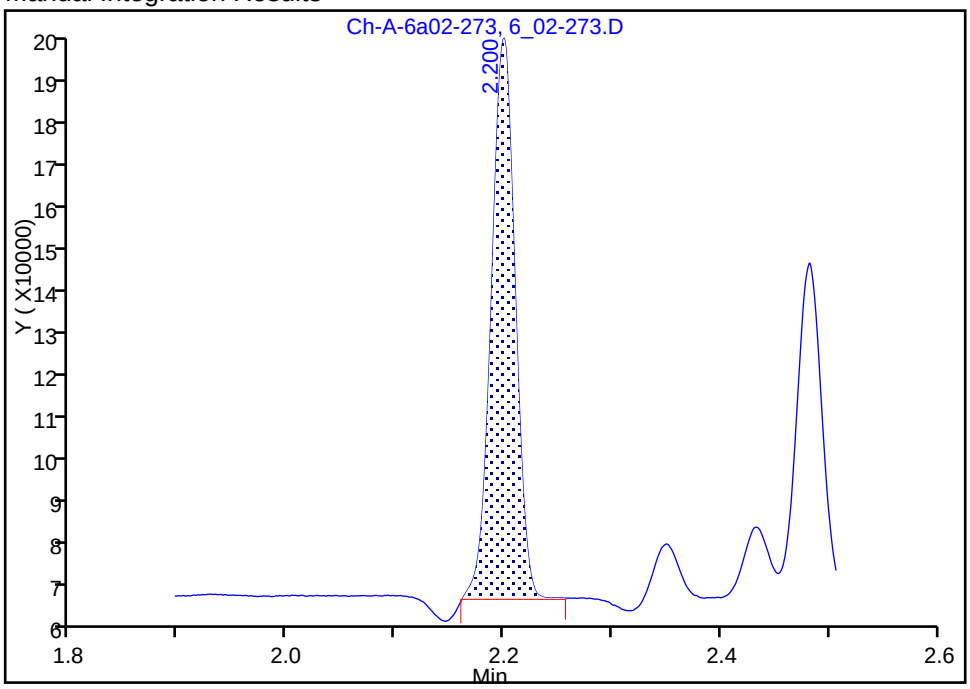
Processing Integration Results

RT: 2.20
Area: 218082
Amount: 0.005443
Amount Units: ng/uL



Manual Integration Results

RT: 2.20
Area: 191867
Amount: 0.004615
Amount Units: ng/uL



Reviewer: owenj, 30-Oct-2017 10:24:40
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

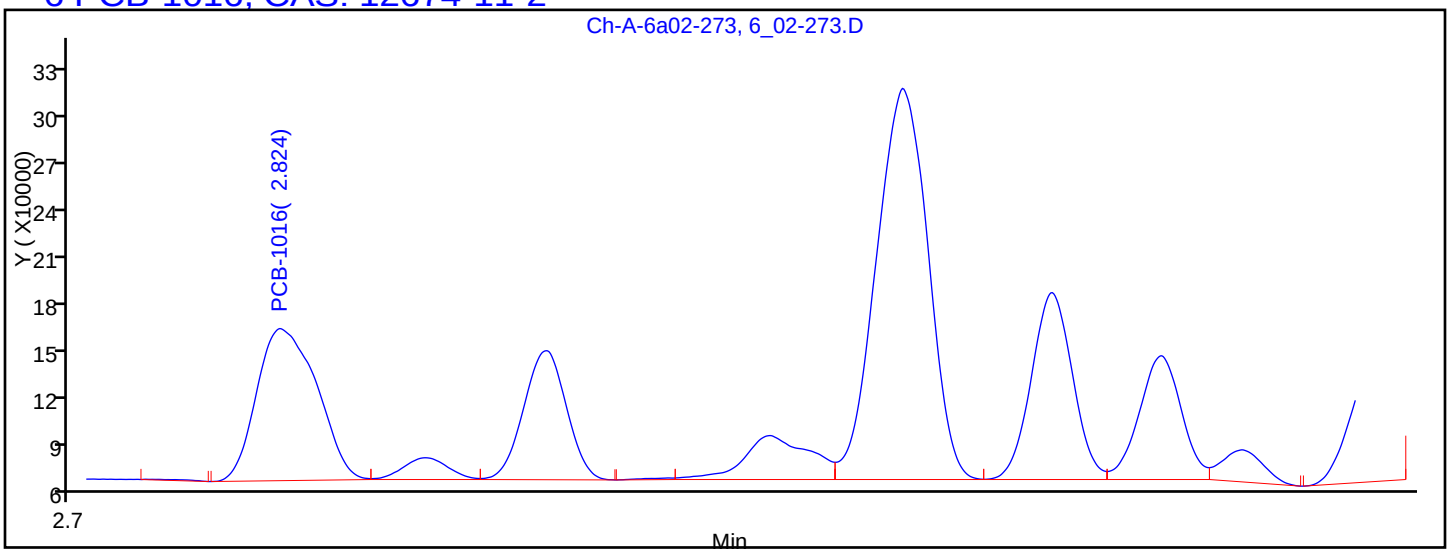
Report Date: 30-Oct-2017 12:28:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-273.D

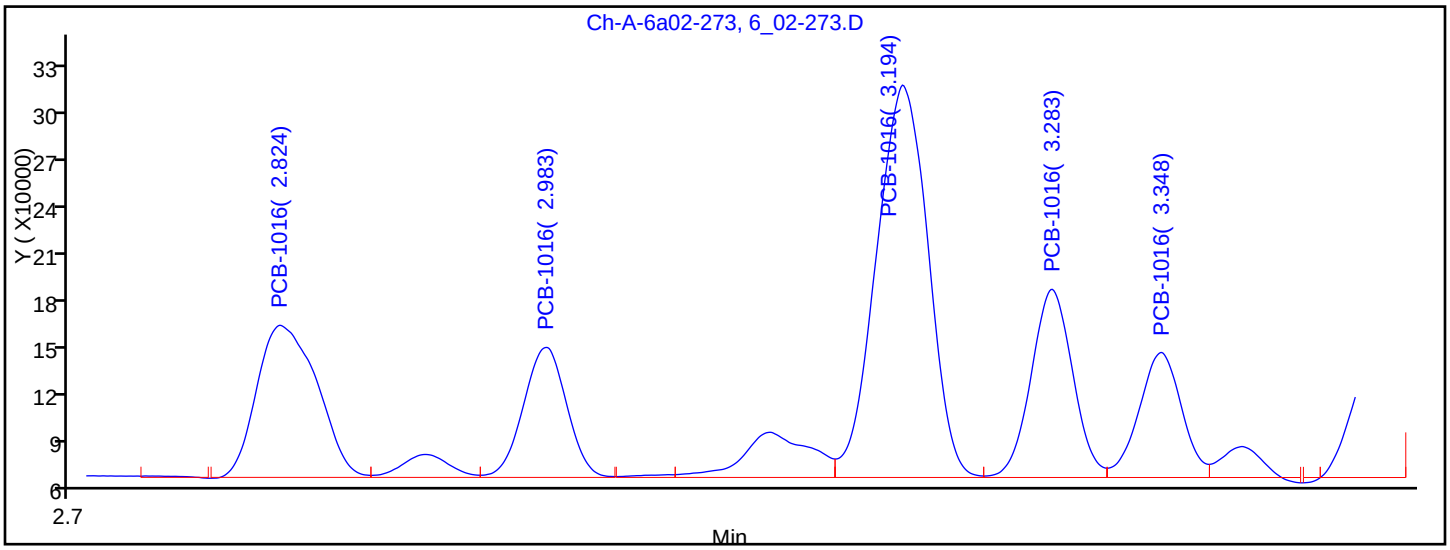
Injection Date:	28-Oct-2017 15:34:24	Instrument ID:	HP6890-6		
Lims ID:	IC 4				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.824	Response = 236863
3.194	Response = 525249
3.283	Response = 199779
3.348	Response = 135608
3.473	Response = 124020



Manual Integration Results

2.824	Response = 237351	M
2.983	Response = 146212	M
3.194	Response = 529317	M
3.283	Response = 203209	M
3.348	Response = 138490	M

Reviewer: owenj, 30-Oct-2017 10:24:32

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-274.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Oct-2017 15:50:18 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:48 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:24:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	17791931	0.5000	0.5000	
2	1.193	1.193	0.000	20254312	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.199	2.199	0.000	94402	0.002500	0.002450	M
2	1.885	1.885	0.000	133890	0.002500	0.002542	
						RPD = 3.69	
6 PCB-1016							M
1	2.825	2.825	0.000	120711	0.1000	0.1090	M
1	2.982	2.982	0.000	81580	0.1000	0.1178	M
1	3.195	3.195	0.000	286116	0.1000	0.1059	M
1	3.283	3.283	0.000	110496	0.1000	0.1059	M
1	3.348	3.348	0.000	75470	0.1000	0.1054	M
		Average of Peak Amounts =				0.1088	
2	2.676	2.676	0.000	189008	0.1000	0.1048	
2	3.006	3.006	0.000	371564	0.1000	0.1016	
2	3.128	3.128	0.000	143730	0.1000	0.1018	
2	3.229	3.229	0.000	86713	0.1000	0.1007	
2	3.518	3.518	0.000	171208	0.1000	0.1024	
		Average of Peak Amounts =				0.1023	
						RPD = 6.17	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.691	4.691	0.000	171261	0.1000	0.1001	
1	4.875	4.875	0.000	189937	0.1000	0.1003	
1	5.106	5.106	0.000	259518	0.1000	0.1007	
1	5.636	5.636	0.000	264897	0.1000	0.0998	
1	5.878	5.878	0.000	144837	0.1000	0.1015	
		Average of Peak Amounts =				0.1005	
2	4.918	4.918	0.000	219749	0.1000	0.0989	
2	4.966	4.966	0.000	123276	0.1000	0.0993	
2	5.233	5.233	0.000	150039	0.1000	0.1013	
2	5.368	5.368	0.000	333623	0.1000	0.0971	
2	5.707	5.707	0.000	204637	0.1000	0.0984	
		Average of Peak Amounts =				0.0990	
						RPD = 1.48	
$ 15 DCB Decachlorobiphenyl							
1	7.045	7.045	0.000	57533	0.002500	0.002666	
2	6.681	6.681	0.000	84694	0.002500	0.002760	
						RPD = 3.49	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00008 Amount Added: 1.00 Units: mL

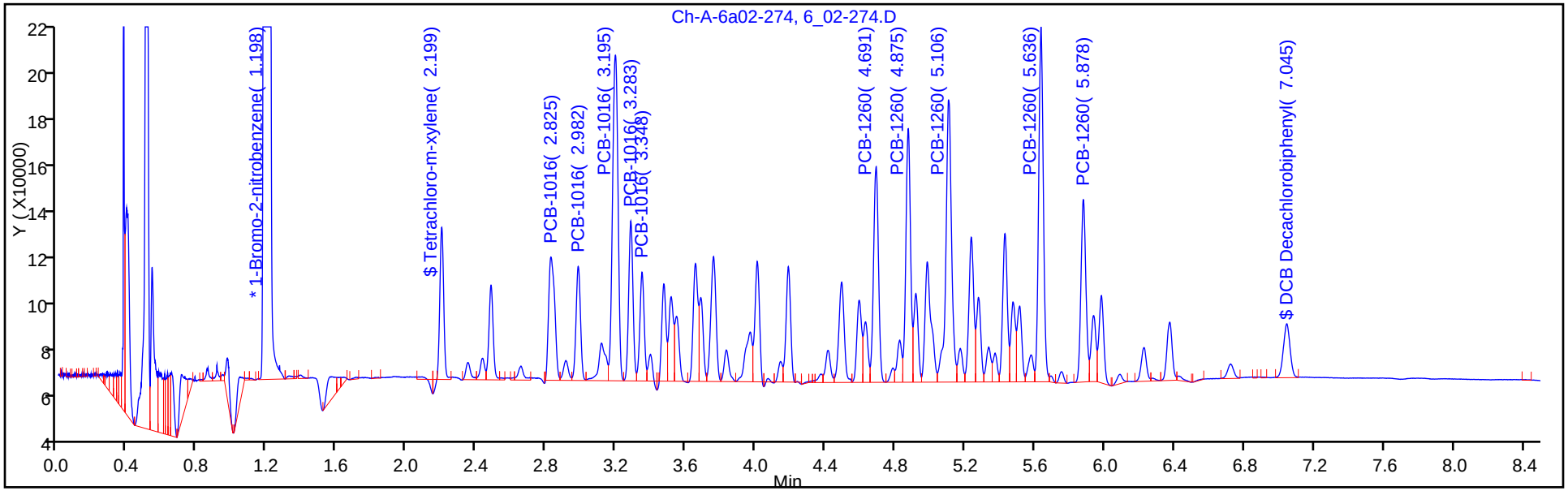
Report Date: 30-Oct-2017 12:28:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

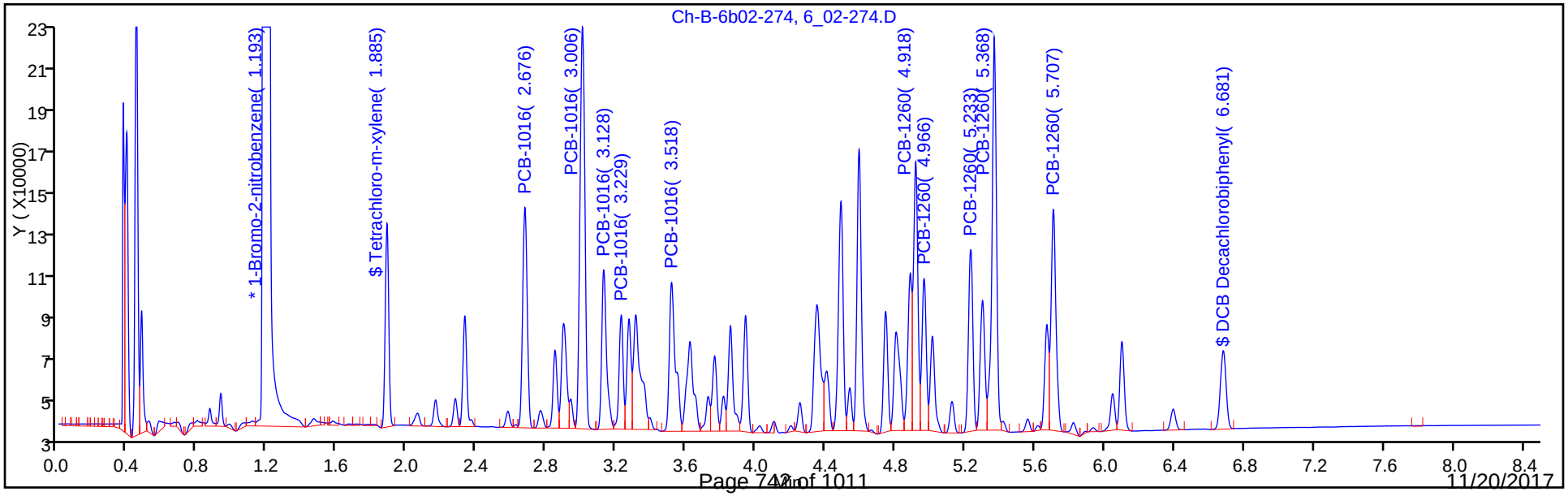
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-274.D

Injection Date:	28-Oct-2017 15:50:18	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

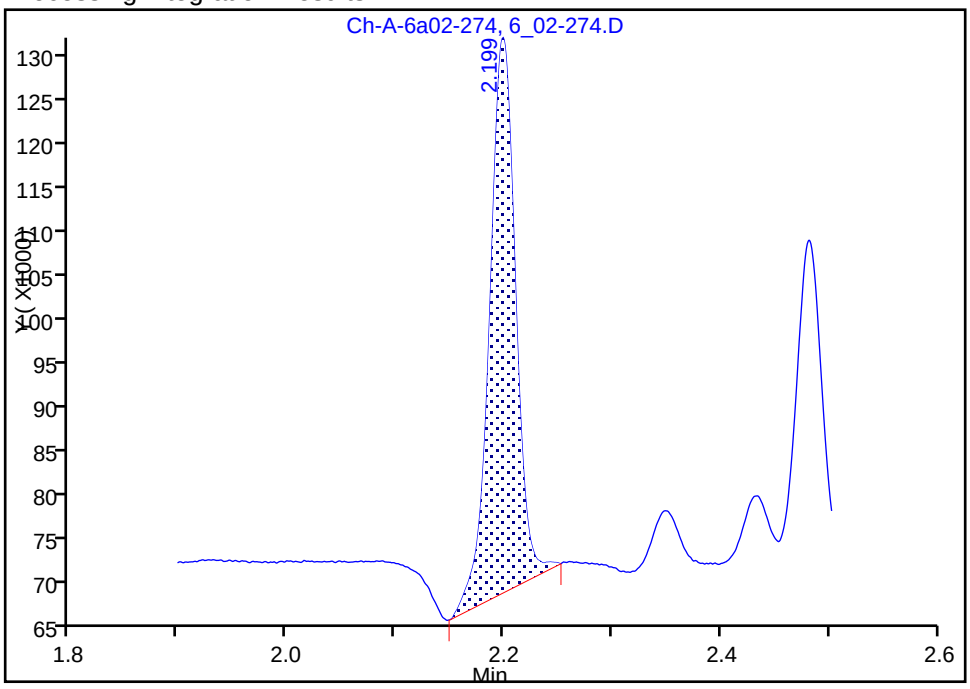
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-274.D				
Injection Date:	28-Oct-2017 15:50:18	Instrument ID:	HP6890-6		
Lims ID:	IC 3				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

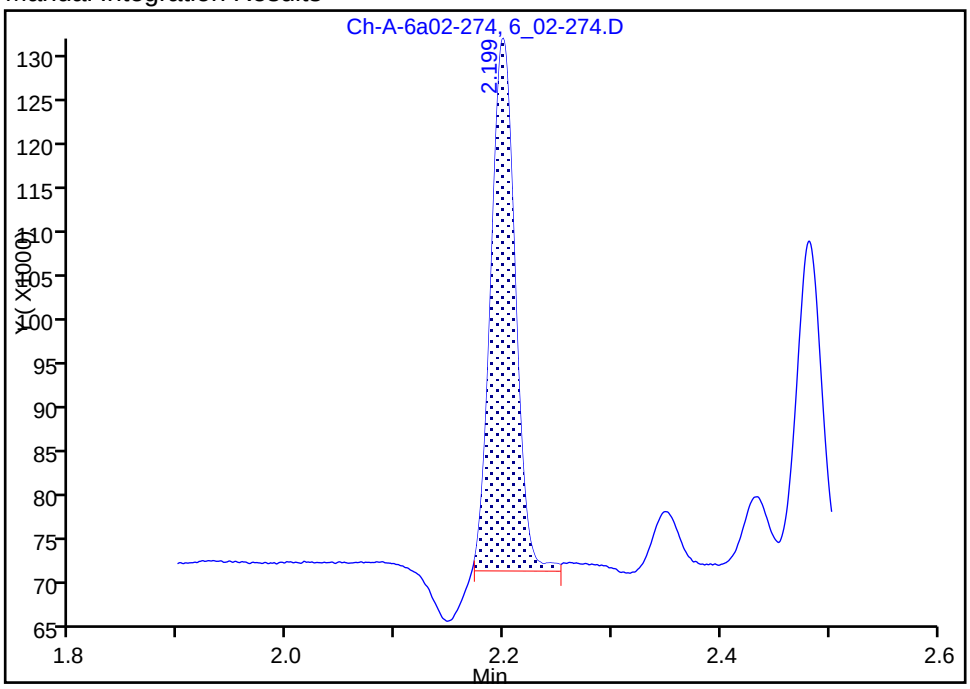
Processing Integration Results

RT: 2.20
Area: 105657
Amount: 0.002724
Amount Units: ng/uL



Manual Integration Results

RT: 2.20
Area: 94402
Amount: 0.002450
Amount Units: ng/uL



Reviewer: owenj, 30-Oct-2017 10:24:10

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:28:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-274.D

Injection Date: 28-Oct-2017 15:50:18 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

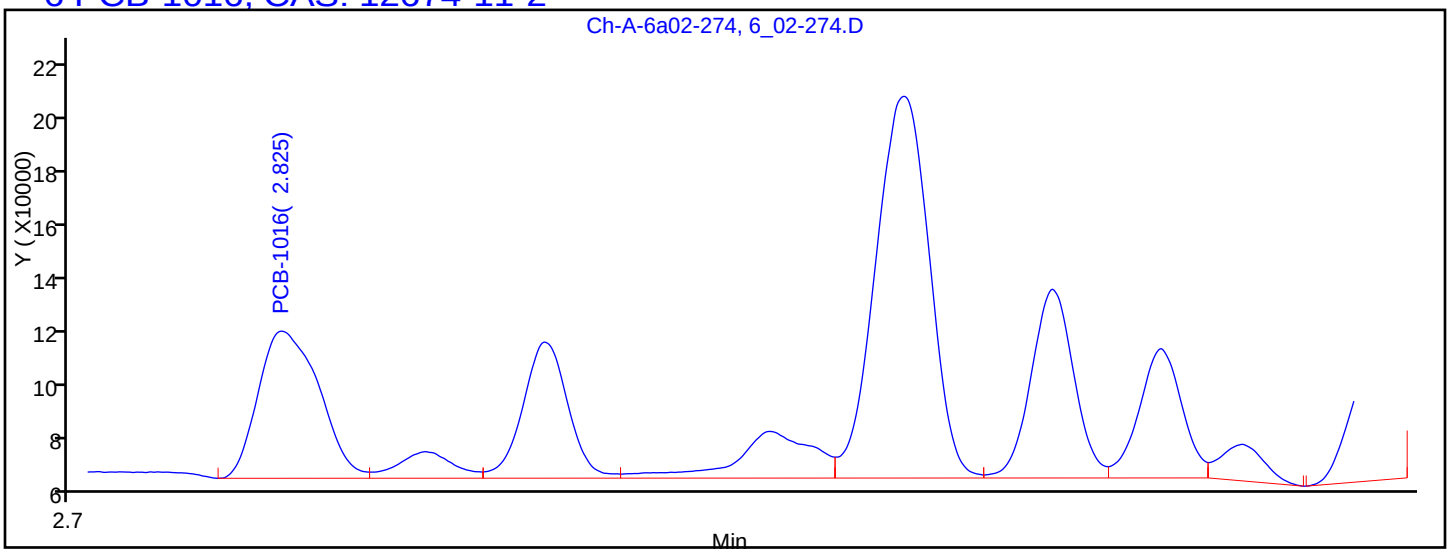
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

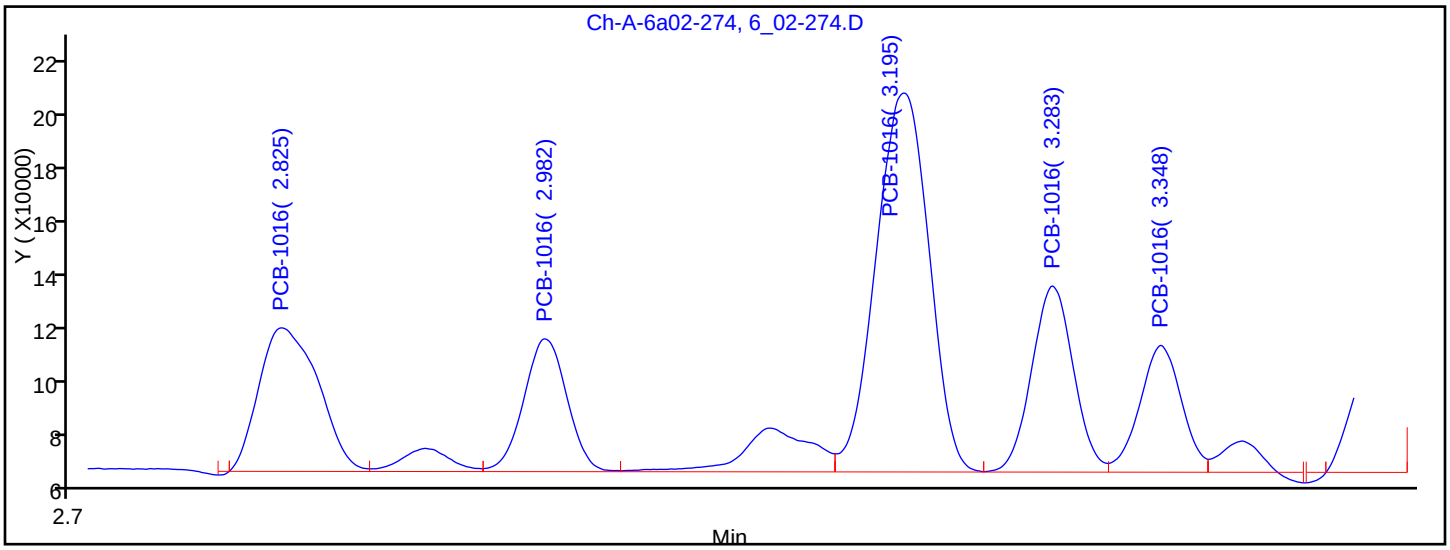
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.825	Response = 126963
3.195	Response = 291170
3.283	Response = 114469
3.348	Response = 78466
3.473	Response = 72290



Manual Integration Results

2.825	Response = 120711	M
2.982	Response = 81580	M
3.195	Response = 286116	M
3.283	Response = 110496	M
3.348	Response = 75470	M

Reviewer: owenj, 30-Oct-2017 10:24:14

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-275.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Oct-2017 16:06:17 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:53 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:23:50

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	16301597	0.5000	0.5000	
2	1.193	1.193	0.000	18696142	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.199	2.199	0.000	46614	0.001250	0.001321	M
2	1.886	1.886	0.000	68281	0.001250	0.001405	
						RPD = 6.17	
6 PCB-1016							M
1	2.828	2.828	0.000	57628	0.0500	0.0568	M
1	2.982	2.982	0.000	36677	0.0500	0.0578	M
1	3.195	3.195	0.000	141161	0.0500	0.0570	M
1	3.283	3.283	0.000	56385	0.0500	0.0590	M
1	3.349	3.349	0.000	39002	0.0500	0.0595	M
		Average of Peak Amounts =				0.0580	
2	2.676	2.676	0.000	99383	0.0500	0.0597	M
2	3.008	3.008	0.000	188629	0.0500	0.0559	M
2	3.128	3.128	0.000	74968	0.0500	0.0575	M
2	3.229	3.229	0.000	44134	0.0500	0.0555	M
2	3.518	3.518	0.000	88701	0.0500	0.0575	M
		Average of Peak Amounts =				0.0572	
						RPD = 1.35	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.690	4.690	0.000	87220	0.0500	0.0557	M
1	4.875	4.875	0.000	97476	0.0500	0.0562	M
1	5.108	5.108	0.000	125630	0.0500	0.0532	M
1	5.636	5.636	0.000	129418	0.0500	0.0532	M
1	5.880	5.880	0.000	72428	0.0500	0.0554	
		Average of Peak Amounts =				0.0547	
2	4.918	4.918	0.000	113946	0.0500	0.0555	M
2	4.966	4.966	0.000	65689	0.0500	0.0573	M
2	5.233	5.233	0.000	77209	0.0500	0.0565	M
2	5.369	5.369	0.000	172090	0.0500	0.0543	M
2	5.708	5.708	0.000	106722	0.0500	0.0556	M
		Average of Peak Amounts =				0.0558	
						RPD = 2.02	
$ 15 DCB Decachlorobiphenyl							
1	7.047	7.047	0.000	26706	0.001250	0.001350	
2	6.684	6.684	0.000	49804	0.001250	0.001554	
						RPD = 14.01	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00007 Amount Added: 1.00 Units: mL

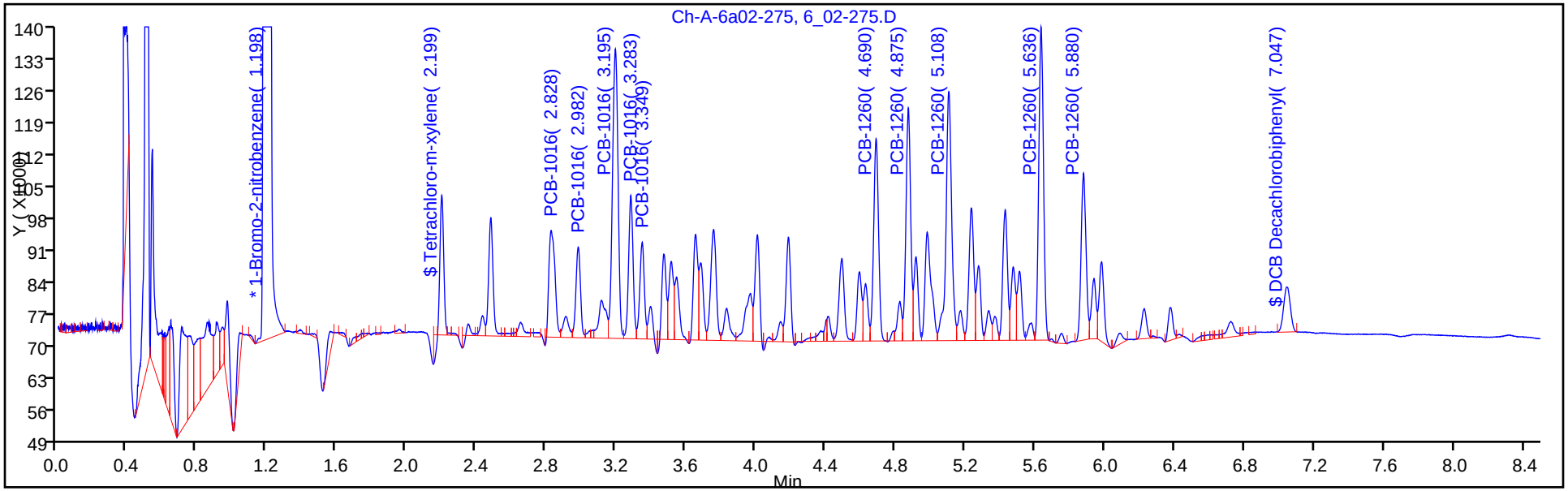
Report Date: 30-Oct-2017 12:28:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

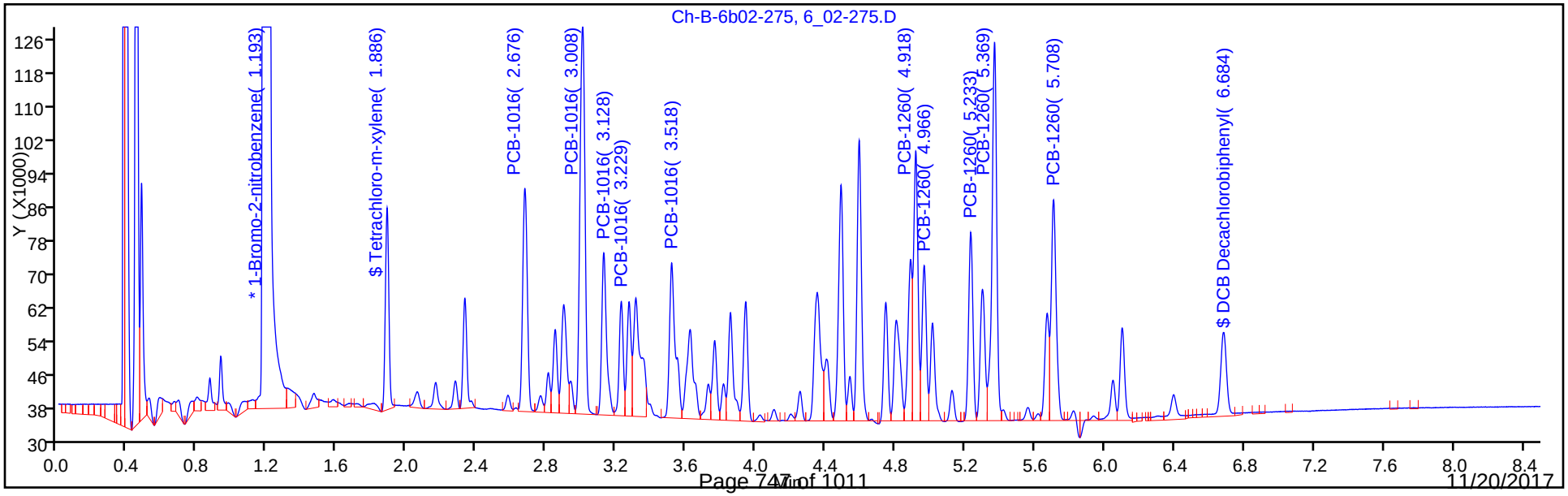
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-275.D

Injection Date:	28-Oct-2017 16:06:17	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

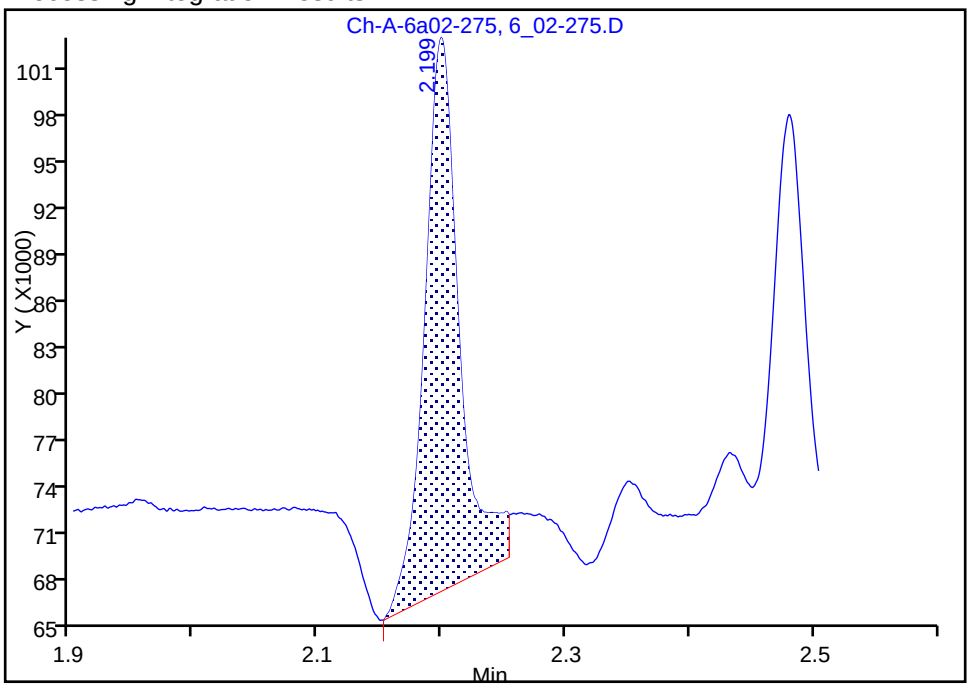
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-275.D
Injection Date: 28-Oct-2017 16:06:17 Instrument ID: HP6890-6
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

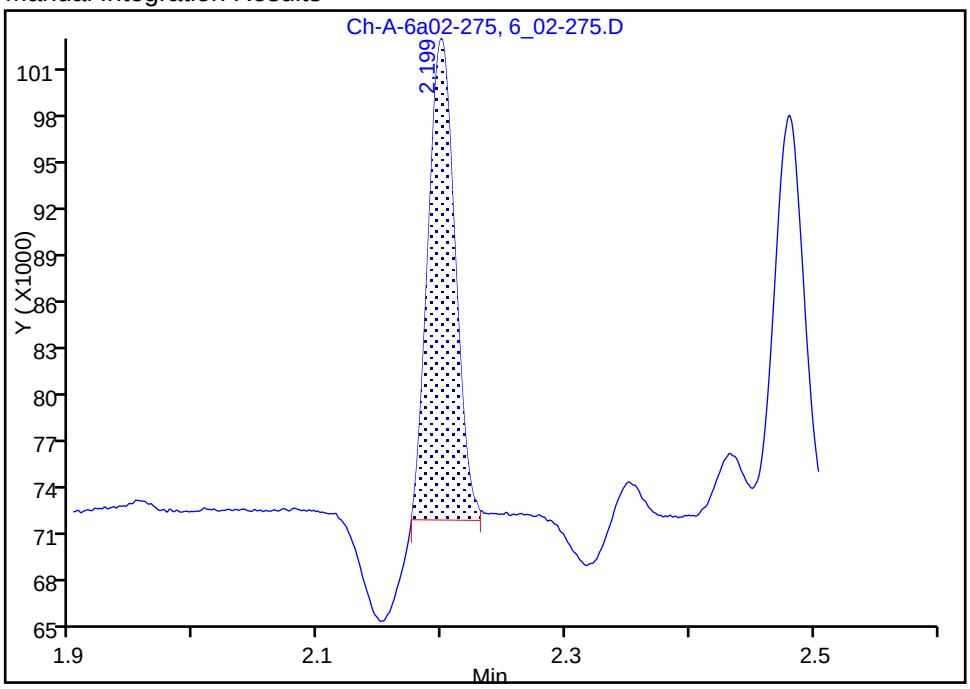
Processing Integration Results

RT: 2.20
Area: 68908
Amount: 0.001724
Amount Units: ng/uL



Manual Integration Results

RT: 2.20
Area: 46614
Amount: 0.001321
Amount Units: ng/uL



Reviewer: owenj, 30-Oct-2017 10:23:19
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:28:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-275.D

Injection Date: 28-Oct-2017 16:06:17 Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

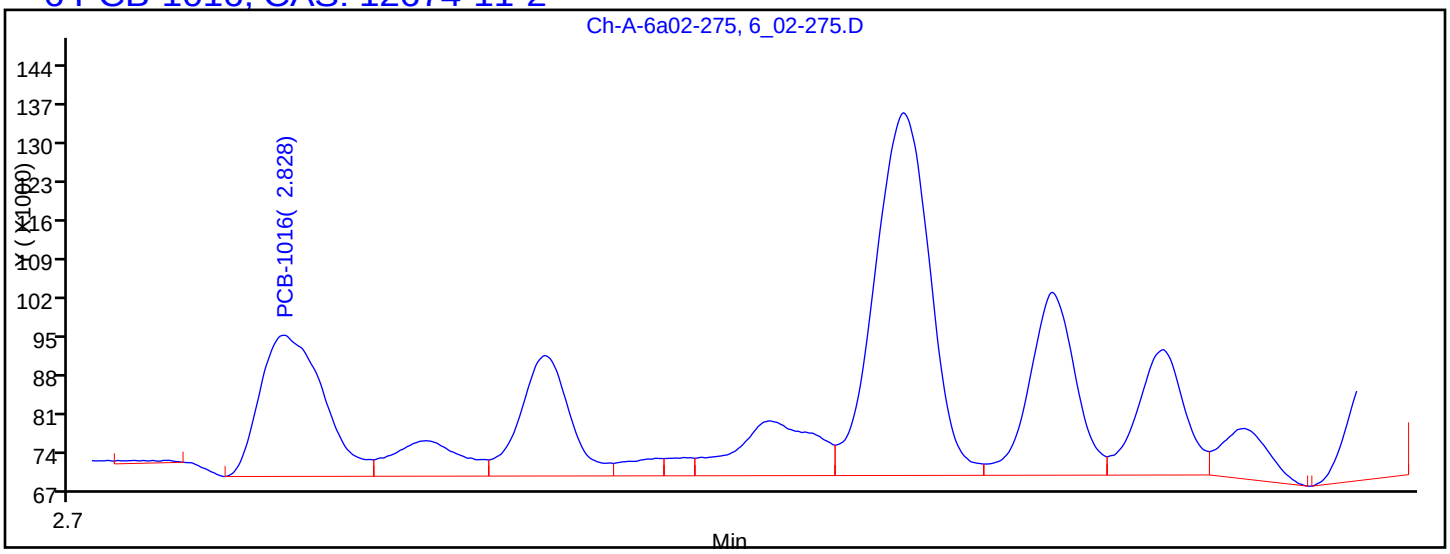
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

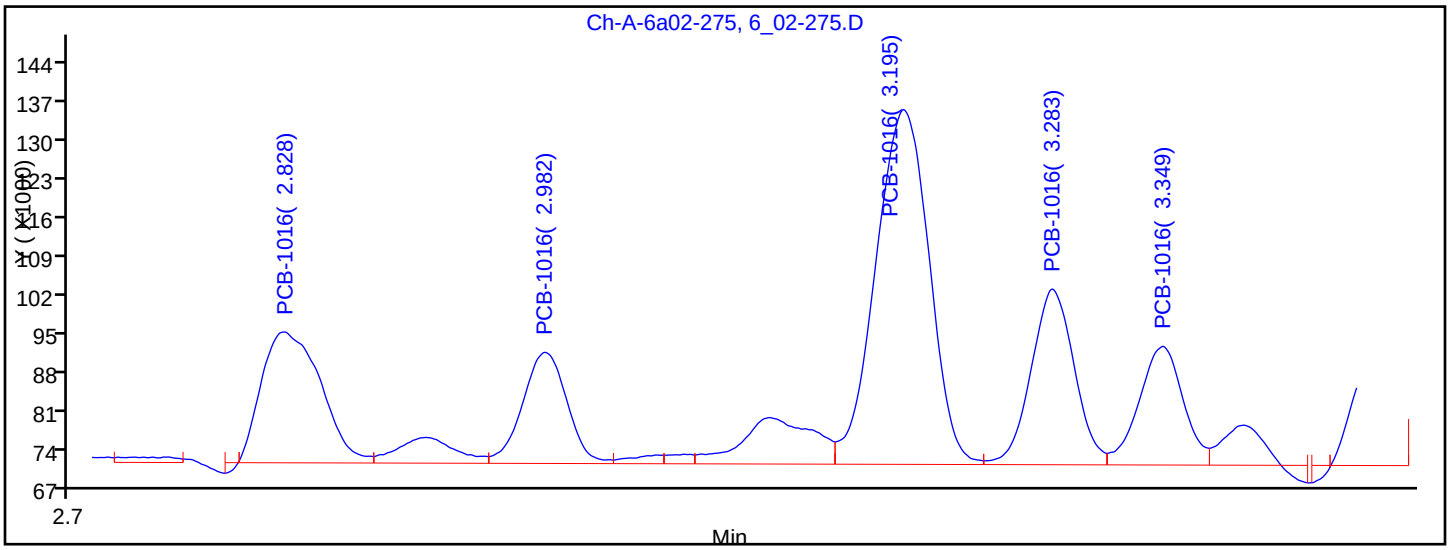
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.828	Response = 66822
3.195	Response = 148568
3.283	Response = 62094
3.349	Response = 43433
3.473	Response = 38615



Manual Integration Results

2.828	Response = 57628	M
2.982	Response = 36677	M
3.195	Response = 141161	M
3.283	Response = 56385	M
3.349	Response = 39002	M

Reviewer: owenj, 30-Oct-2017 10:23:23

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

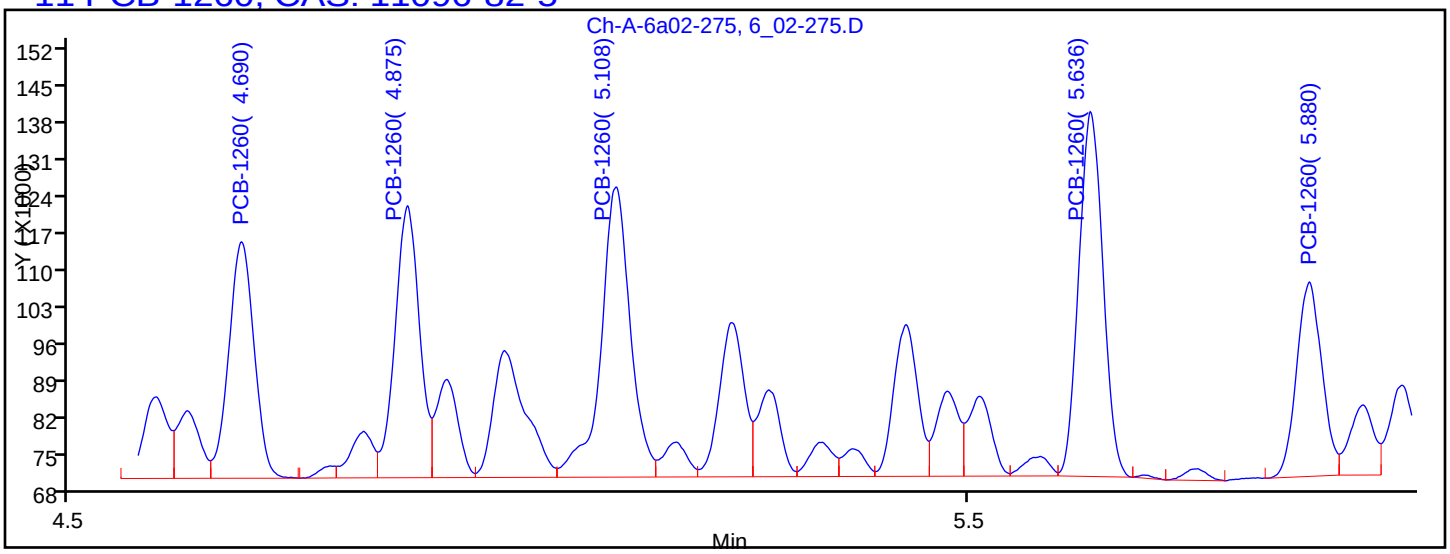
Report Date: 30-Oct-2017 12:28:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-275.D

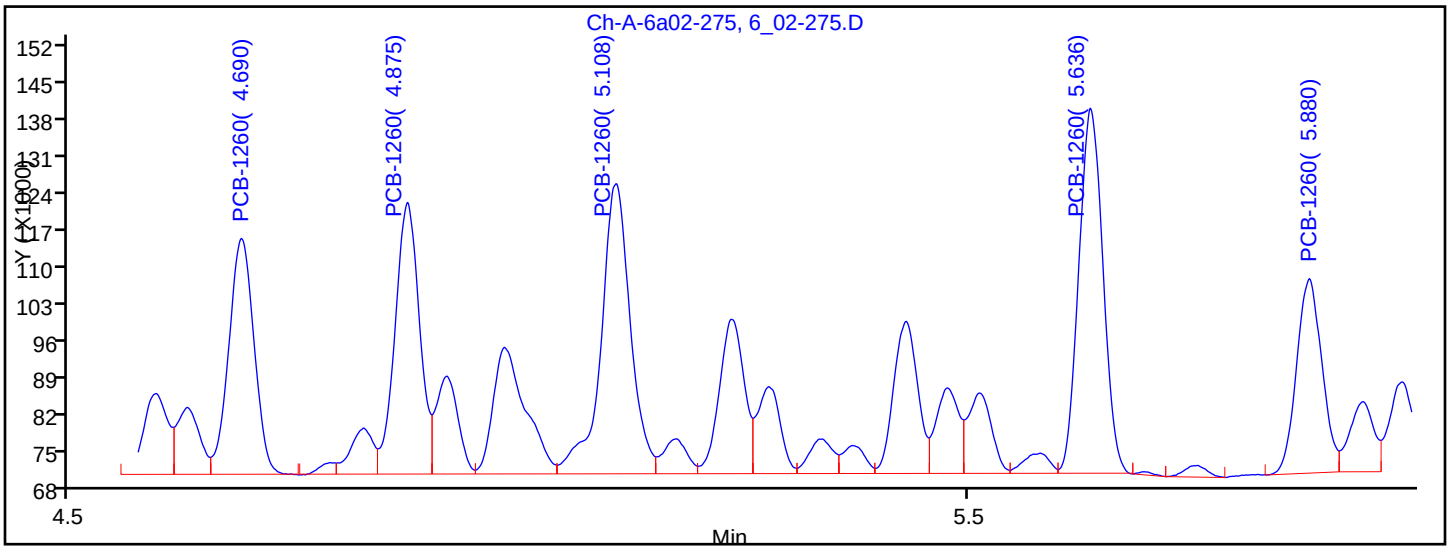
Injection Date:	28-Oct-2017 16:06:17	Instrument ID:	HP6890-6		
Lims ID:	IC 2				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.690	Response = 88024
4.875	Response = 97740
5.108	Response = 125705
5.636	Response = 129458
5.880	Response = 72428



Manual Integration Results

4.690	Response = 87220	M
4.875	Response = 97476	M
5.108	Response = 125630	M
5.636	Response = 129418	M
5.880	Response = 72428	

Reviewer: owenj, 30-Oct-2017 10:23:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Oct-2017 16:22:23 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:59 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:22:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	17486407	0.5000	0.5000	
2	1.193	1.193	0.000	19773014	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.199	2.199	0.000	21873	0.000500	0.000578	M
2	1.885	1.885	0.000	27635	0.000500	0.000538	M
						RPD = 7.20	
6 PCB-1016							M
1	2.836	2.836	0.000	17504	0.0200	0.0161	M
1	2.982	2.982	0.000	9842	0.0200	0.0145	M
1	3.197	3.197	0.000	54135	0.0200	0.0204	M
1	3.284	3.284	0.000	22311	0.0200	0.0217	M
1	3.348	3.348	0.000	15047	0.0200	0.0214	M
		Average of Peak Amounts =				0.0188	
2	2.676	2.676	0.000	45786	0.0200	0.0260	M
2	3.008	3.008	0.000	87390	0.0200	0.0245	M
2	3.128	3.128	0.000	34937	0.0200	0.0253	M
2	3.229	3.229	0.000	19647	0.0200	0.0234	M
2	3.518	3.518	0.000	42370	0.0200	0.0260	M
		Average of Peak Amounts =				0.0250	
						RPD = 28.39	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.691	4.691	0.000	38465	0.0200	0.0229	M
1	4.875	4.875	0.000	42698	0.0200	0.0229	M
1	5.108	5.108	0.000	49891	0.0200	0.0197	M
1	5.636	5.636	0.000	52012	0.0200	0.0199	M
1	5.880	5.880	0.000	30907	0.0200	0.0220	M
		Average of Peak Amounts =				0.0215	
2	4.918	4.918	0.000	51759	0.0200	0.0239	M
2	4.966	4.966	0.000	30341	0.0200	0.0250	M
2	5.233	5.233	0.000	33317	0.0200	0.0230	M
2	5.368	5.368	0.000	79245	0.0200	0.0236	M
2	5.708	5.708	0.000	49042	0.0200	0.0242	M
		Average of Peak Amounts =				0.0239	
						RPD = 10.77	
$ 15 DCB Decachlorobiphenyl							M
1	7.048	7.048	0.000	11084	0.000500	0.000523	
2	6.683	6.683	0.000	20245	0.000500	0.000250	M
						RPD = 70.44	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00008 Amount Added: 1.00 Units: mL

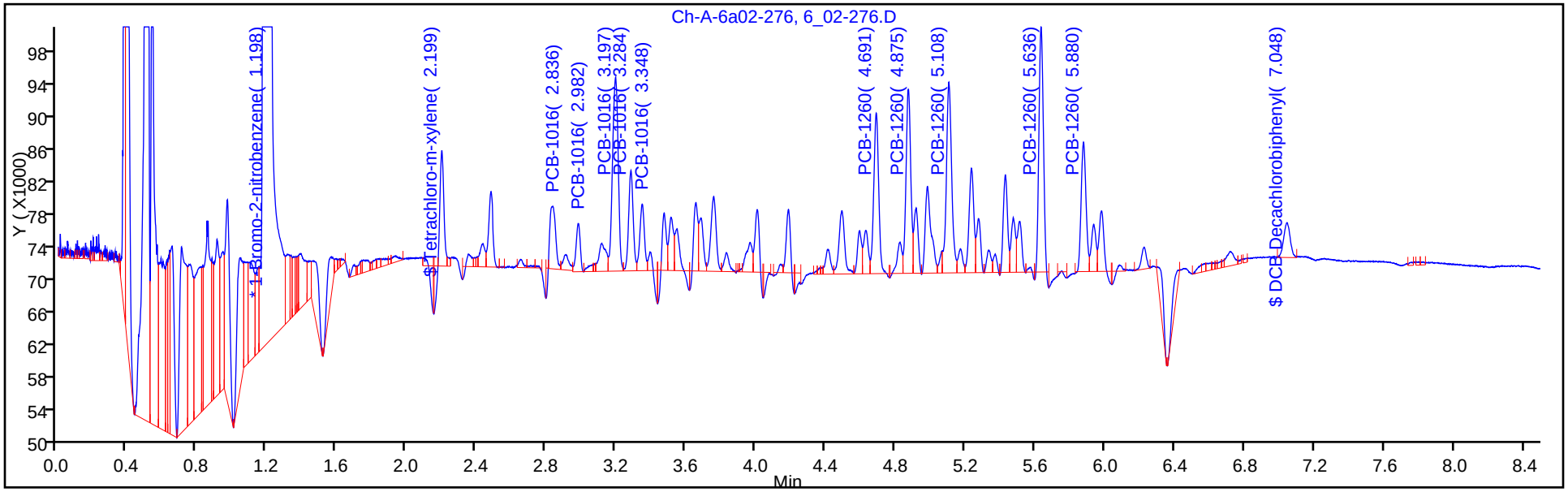
Report Date: 30-Oct-2017 12:29:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

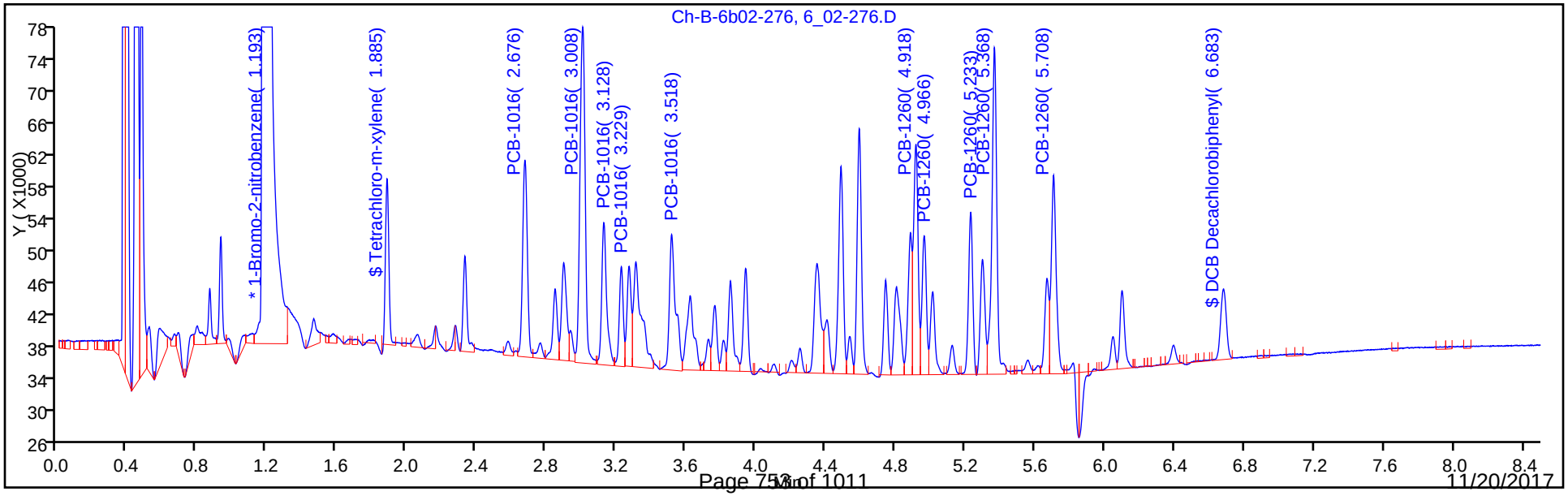
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D

Injection Date:	28-Oct-2017 16:22:23	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

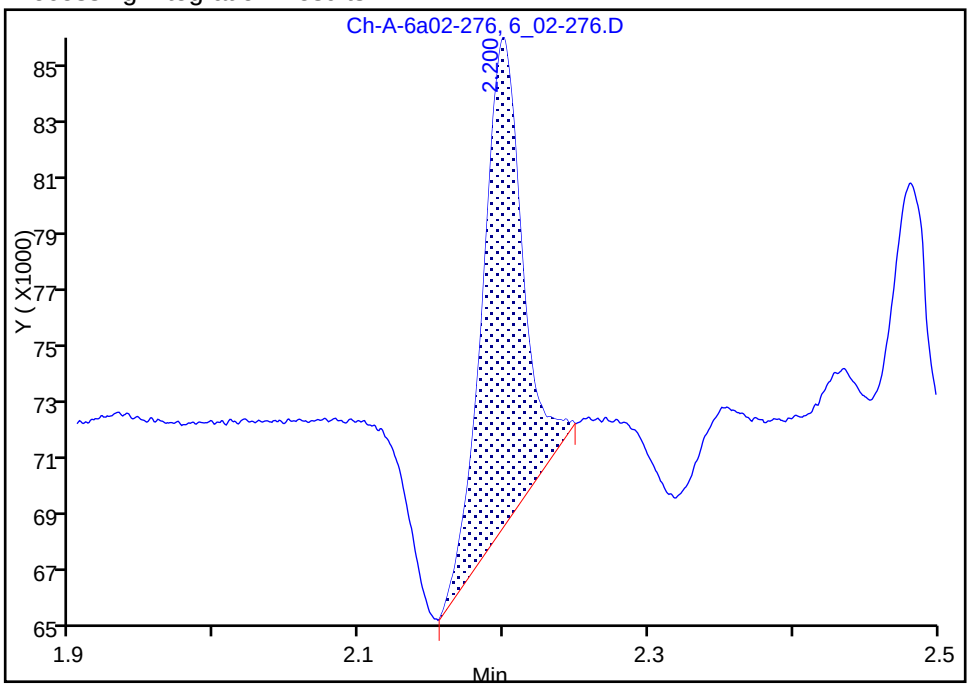
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D
Injection Date: 28-Oct-2017 16:22:23 Instrument ID: HP6890-6
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

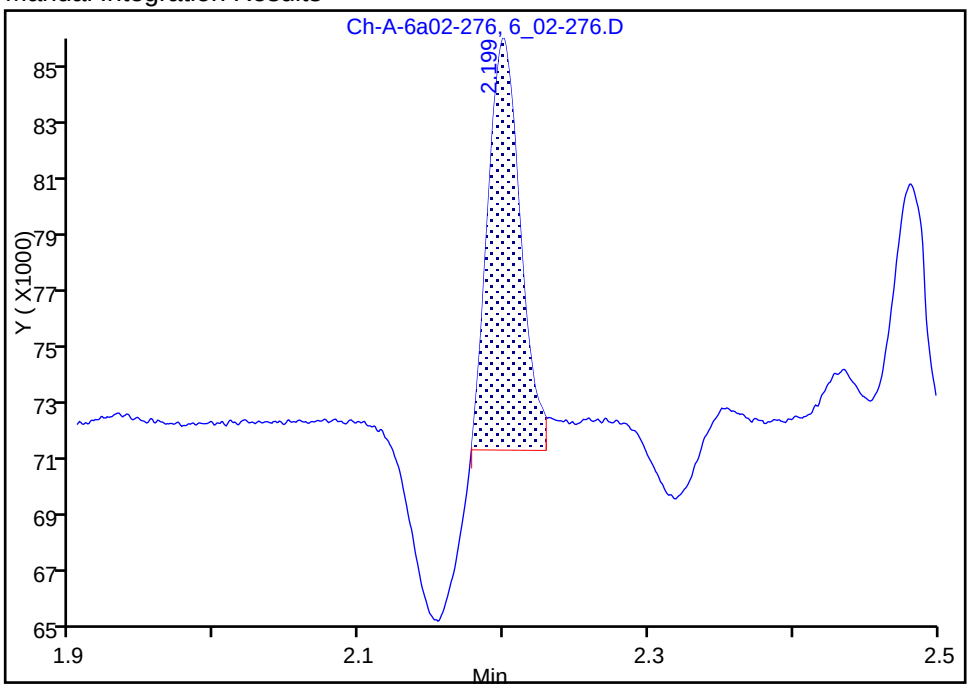
Processing Integration Results

RT: 2.20
Area: 32342
Amount: 0.000357
Amount Units: ng/uL



Manual Integration Results

RT: 2.20
Area: 21873
Amount: 0.000578
Amount Units: ng/uL



Reviewer: owenj, 30-Oct-2017 10:22:11
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

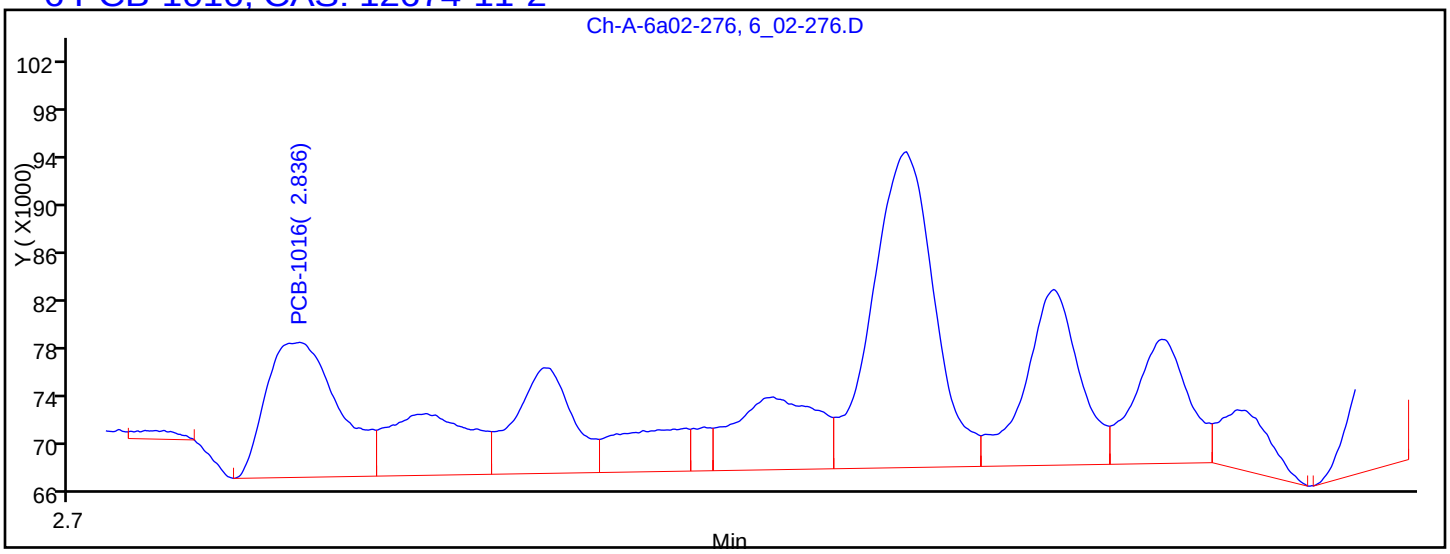
Report Date: 30-Oct-2017 12:29:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D

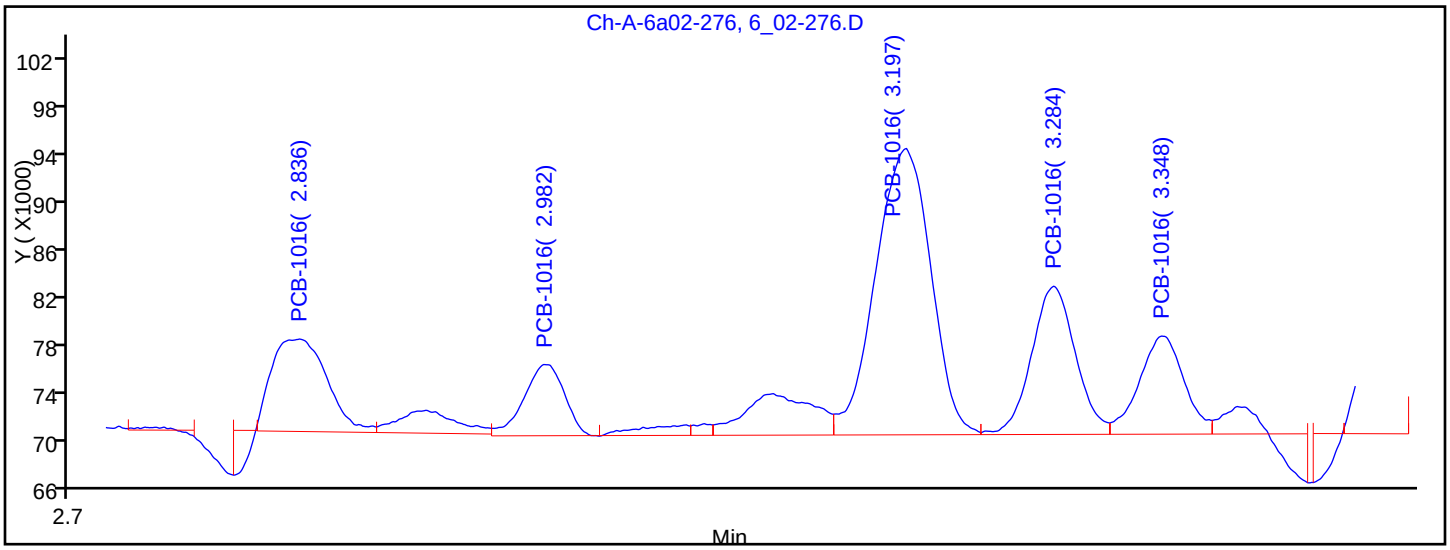
Injection Date:	28-Oct-2017 16:22:23	Instrument ID:	HP6890-6		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.836	Response = 33467
3.197	Response = 66937
3.284	Response = 32815
3.348	Response = 22907
3.475	Response = 18204



Manual Integration Results

2.836	Response = 17504	M
2.982	Response = 9842	M
3.197	Response = 54135	M
3.284	Response = 22311	M
3.348	Response = 15047	M

Reviewer: owenj, 30-Oct-2017 10:50:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:29:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D

Injection Date: 28-Oct-2017 16:22:23 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

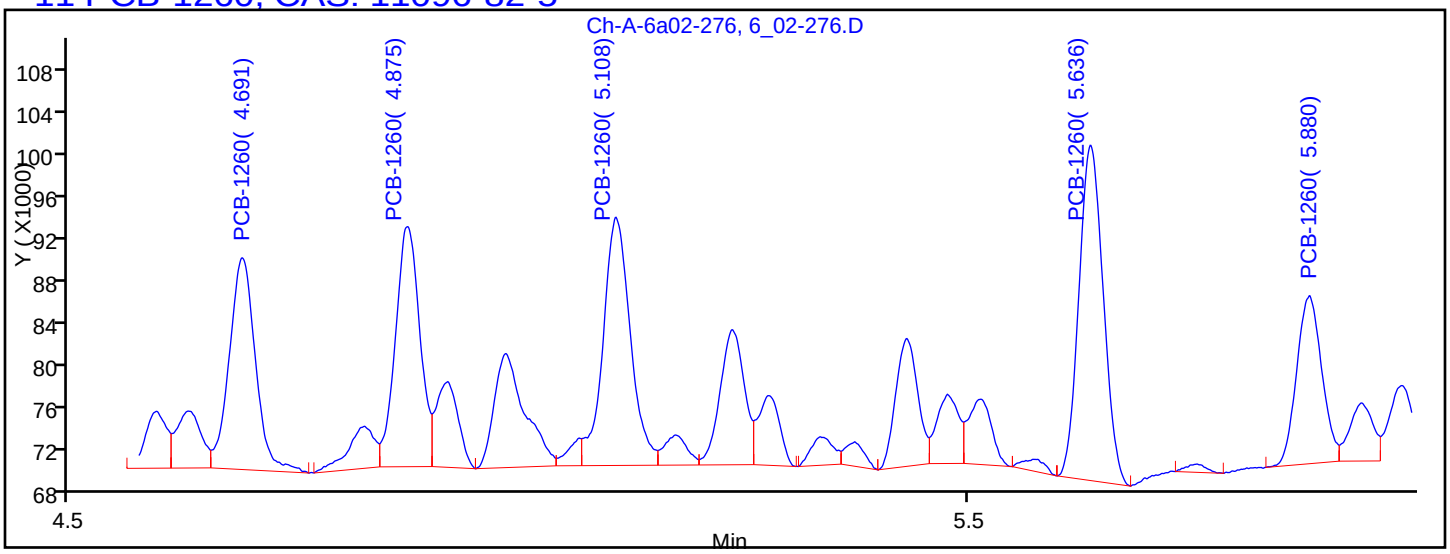
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

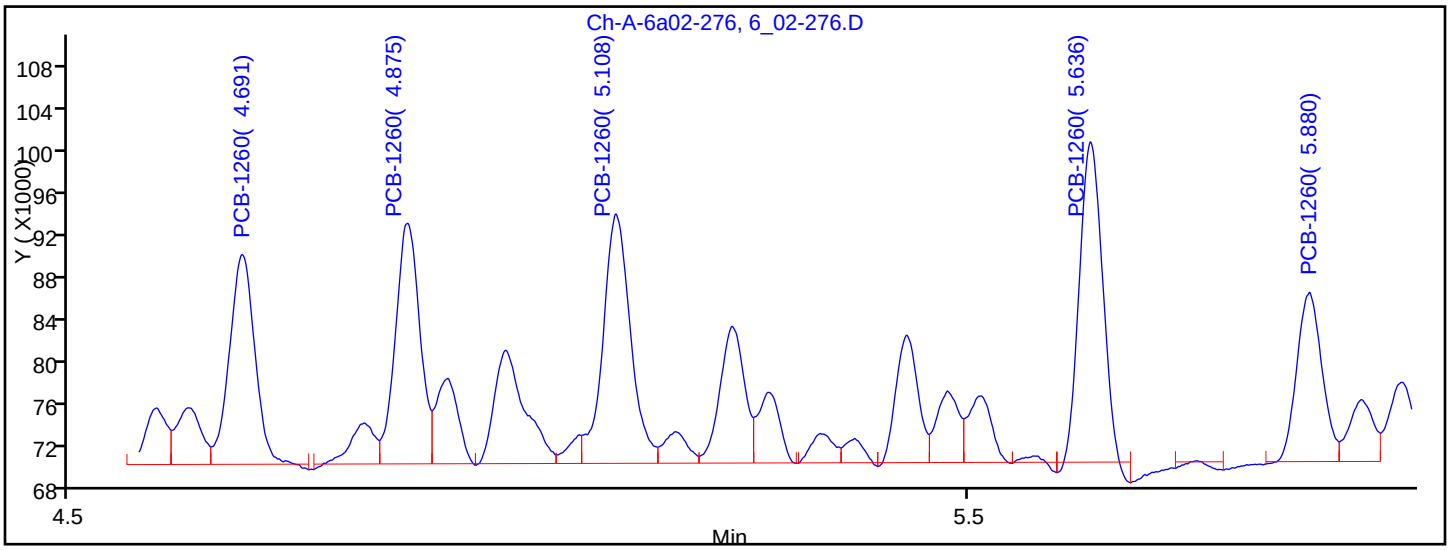
Column: Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.691	Response = 40246
4.875	Response = 42550
5.108	Response = 49327
5.636	Response = 59158
5.880	Response = 30635



Manual Integration Results

4.691	Response = 38465	M
4.875	Response = 42698	M
5.108	Response = 49891	M
5.636	Response = 52012	M
5.880	Response = 30907	M

Reviewer: owenj, 30-Oct-2017 10:22:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 14:46 Calibration End Date: 10/28/2017 16:22 Calibration ID: 31846

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/12	6_02-276.D
Level 2	IC 480-384409/11	6_02-275.D
Level 3	IC 480-384409/10	6_02-274.D
Level 4	IC 480-384409/9	6_02-273.D
Level 5	ICIS 480-384409/8	6_02-272.D
Level 6	IC 480-384409/7	6_02-271.D
Level 7	IC 480-384409/6	6_02-270.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0579 0.0385	0.0532 0.0327	0.0467	0.0426	0.0401	Ave		0.0445				19.6		20.0			
PCB-1016 Peak 2	0.1105 0.0843	0.1009 0.0744	0.0917	0.0859	0.0843	Ave		0.0903				13.3		20.0			
PCB-1016 Peak 3	0.0442 0.0316	0.0401 0.0277	0.0355	0.0331	0.0319	Ave		0.0349				16.1		20.0			
PCB-1016 Peak 4	0.0248 0.0205	0.0236 0.0175	0.0214	0.0203	0.0206	Ave		0.0213				11.3		20.0			
PCB-1016 Peak 5	0.0536 0.0372	0.0474 0.0324	0.0423	0.0386	0.0372	Ave		0.0413				17.4		20.0			
PCB-1260 Peak 1	0.0654 0.0528	0.0609 0.0484	0.0542	0.0516	0.0506	Ave		0.0549				11.1		20.0			
PCB-1260 Peak 2	0.0384 0.0285	0.0351 0.0252	0.0304	0.0289	0.0279	Ave		0.0306				14.9		20.0			
PCB-1260 Peak 3	0.0421 0.0355	0.0413 0.0319	0.0370	0.0336	0.0345	Ave		0.0366				10.5		20.0			
PCB-1260 Peak 4	0.1002 0.0830	0.0920 0.0767	0.0824	0.0796	0.0798	Ave		0.0848				9.8		20.0			
PCB-1260 Peak 5	0.0620 0.0495	0.0571 0.0450	0.0505	0.0482	0.0471	Ave		0.0514				11.8		20.0			
Tetrachloro-m-xylene	1.3976 1.2812	1.4609 1.1155	1.3221	1.2383	1.2849	Ave		1.3000				8.6		20.0			
DCB Decachlorobiphenyl	1.0239 0.6776	1.0655 0.6006	0.8363	0.7657	0.6884	Lin1	0.0004	0.6290							0.9930		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 14:46 Calibration End Date: 10/28/2017 16:22 Calibration ID: 31846

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/12	6_02-276.D
Level 2	IC 480-384409/11	6_02-275.D
Level 3	IC 480-384409/10	6_02-274.D
Level 4	IC 480-384409/9	6_02-273.D
Level 5	ICIS 480-384409/8	6_02-272.D
Level 6	IC 480-384409/7	6_02-271.D
Level 7	IC 480-384409/6	6_02-270.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	45786 1578891	99383 2793399	189008	364586	821700	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Ave	87390 3461043	188629 6357146	371564	735045	1725944	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Ave	34937 1298221	74968 2361803	143730	283001	652333	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Ave	19647 841186	44134 1492791	86713	173656	422462	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Ave	42370 1529034	88701 2769560	171208	330218	762362	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Ave	51759 2168214	113946 4130795	219749	441079	1036363	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Ave	30341 1171115	65689 2151057	123276	246844	571947	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Ave	33317 1457038	77209 2725235	150039	287737	706199	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Ave	79245 3405799	172090 6550461	333623	680697	1634202	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Ave	49042 2032190	106722 3840870	204637	412480	964828	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Ave	27635 1315030	68281 2381403	133890	264742	657446	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	20245 695476	49804 1282247	84694	163701	352245	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-270.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Oct-2017 14:46:11 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 14:06:16 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 14:04:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	18947990	0.5000	0.5000	
2	1.193	1.193	0.000	21348527	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.199	2.199	0.000	1827563	0.0500	0.0445	M
2	1.884	1.884	0.000	2381403	0.0500	0.0429	
						RPD = 3.75	
6 PCB-1016							M
1	2.824	2.824	0.000	1843616	2.00	1.56	M
1	2.982	2.982	0.000	1160460	2.00	1.57	M
1	3.195	3.195	0.000	4629873	2.00	1.61	M
1	3.283	3.283	0.000	1679983	2.00	1.51	M
1	3.348	3.348	0.000	1165196	2.00	1.53	M
		Average of Peak Amounts =				1.56	
2	2.675	2.675	0.000	2793399	2.00	1.47	
2	3.004	3.004	0.000	6357146	2.00	1.65	
2	3.126	3.126	0.000	2361803	2.00	1.59	
2	3.226	3.226	0.000	1492791	2.00	1.65	
2	3.515	3.515	0.000	2769560	2.00	1.57	
		Average of Peak Amounts =				1.58	
						RPD = 1.76	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.688	4.688	0.000	3161688	2.00	1.74	
1	4.873	4.873	0.000	3621647	2.00	1.79	
1	5.107	5.107	0.000	5222252	2.00	1.90	
1	5.635	5.635	0.000	5585696	2.00	1.98	a
1	5.878	5.878	0.000	2777467	2.00	1.83	a
		Average of Peak Amounts =				1.85	
2	4.915	4.915	0.000	4130795	2.00	1.76	
2	4.963	4.963	0.000	2151057	2.00	1.64	
2	5.231	5.231	0.000	2725235	2.00	1.75	
2	5.366	5.366	0.000	6550461	2.00	1.81	
2	5.705	5.705	0.000	3840870	2.00	1.75	
		Average of Peak Amounts =				1.74	
						RPD = 5.82	
$ 15 DCB Decachlorobiphenyl							
1	7.042	7.042	0.000	1018669	0.0500	0.0443	
2	6.678	6.678	0.000	1282247	0.0500	0.0472	
						RPD = 6.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00007 Amount Added: 1.00 Units: mL

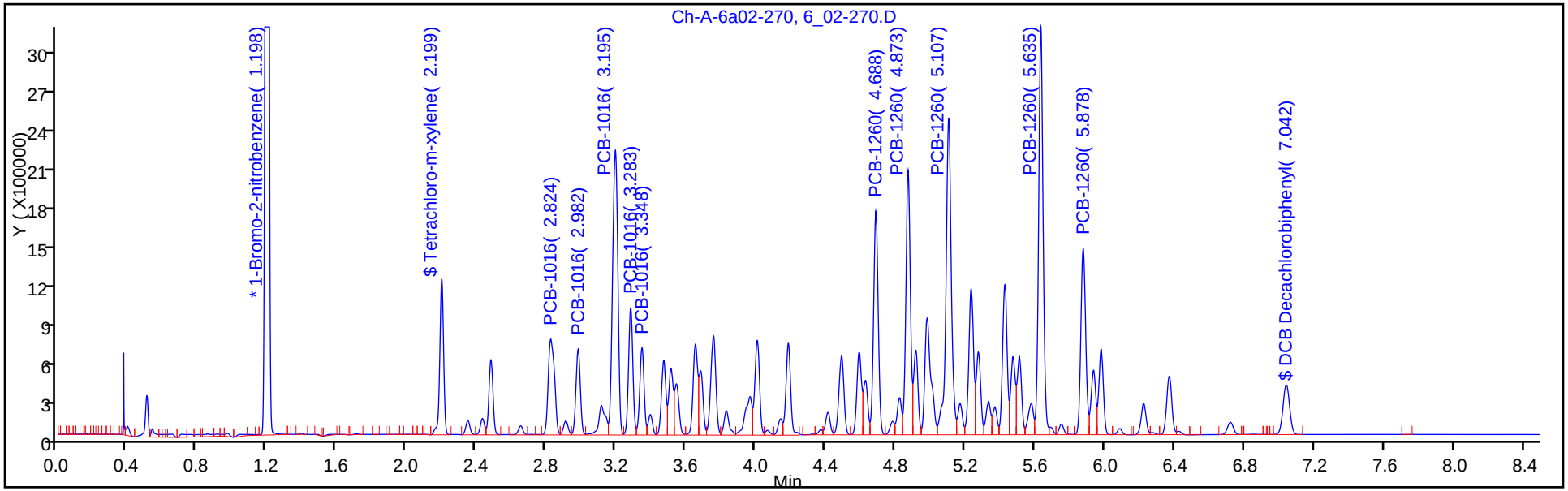
Report Date: 30-Oct-2017 14:06:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

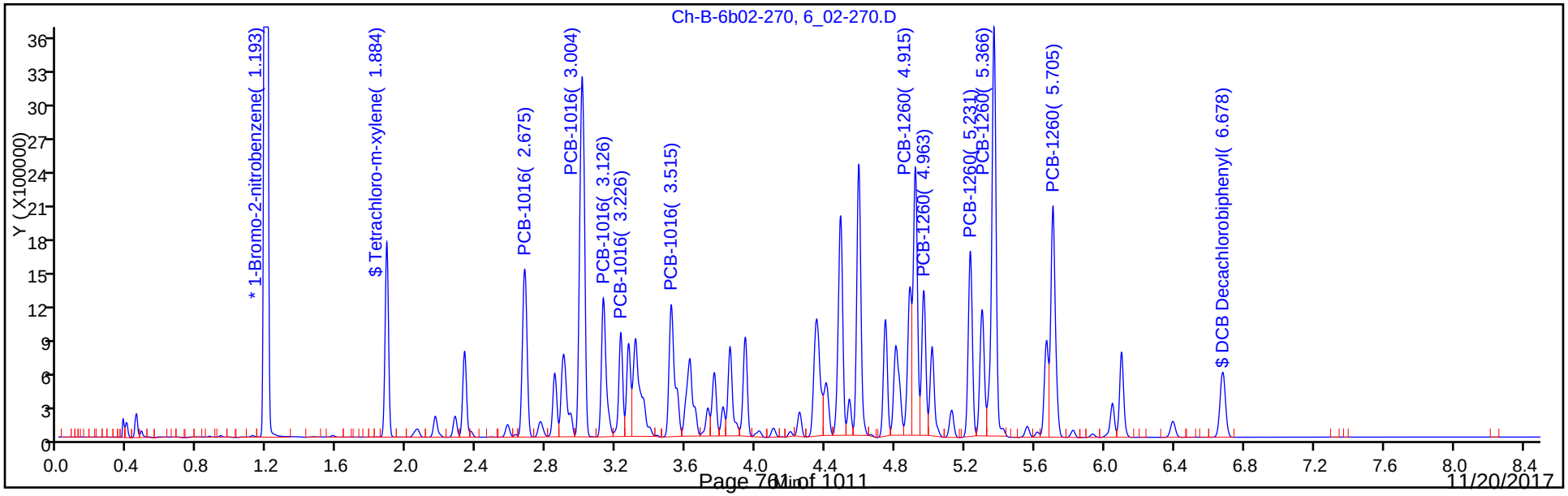
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-270.D

Injection Date:	28-Oct-2017 14:46:11	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-271.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Oct-2017 15:02:11 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:31 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:25:29

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	17976942	0.5000	0.5000	
2	1.194	1.194	0.000	20528745	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.199	2.199	0.000	979119	0.0250	0.0252	M
2	1.886	1.886	0.000	1315030	0.0250	0.0246	
						RPD = 2.07	
6 PCB-1016							M
1	2.823	2.823	0.000	1208721	1.00	1.08	M
1	2.982	2.982	0.000	755702	1.00	1.08	M
1	3.194	3.194	0.000	2819337	1.00	1.03	M
1	3.283	3.283	0.000	1051278	1.00	1.00	M
1	3.348	3.348	0.000	729577	1.00	1.01	M
		Average of Peak Amounts =				1.04	
2	2.676	2.676	0.000	1578891	1.00	0.8638	
2	3.008	3.008	0.000	3461043	1.00	0.9335	
2	3.128	3.128	0.000	1298221	1.00	0.9071	
2	3.228	3.228	0.000	841186	1.00	0.9640	
2	3.518	3.518	0.000	1529034	1.00	0.9026	
		Average of Peak Amounts =				0.9142	
						RPD = 12.83	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.688	4.688	0.000	1668583	1.00	0.9657	
1	4.874	4.874	0.000	1885989	1.00	0.9852	
1	5.106	5.106	0.000	2756619	1.00	1.06	
1	5.634	5.634	0.000	2809602	1.00	1.05	
1	5.876	5.876	0.000	1432952	1.00	0.99	
		Average of Peak Amounts =				1.01	
2	4.916	4.916	0.000	2168214	1.00	0.9626	
2	4.964	4.964	0.000	1171115	1.00	0.9311	
2	5.230	5.230	0.000	1457038	1.00	0.9703	
2	5.368	5.368	0.000	3405799	1.00	0.9780	
2	5.706	5.706	0.000	2032190	1.00	0.9639	
		Average of Peak Amounts =				0.9612	
						RPD = 4.97	
$ 15 DCB Decachlorobiphenyl							
1	7.043	7.043	0.000	531907	0.0250	0.0244	
2	6.681	6.681	0.000	695476	0.0250	0.0264	
						RPD = 7.79	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00008 Amount Added: 1.00 Units: mL

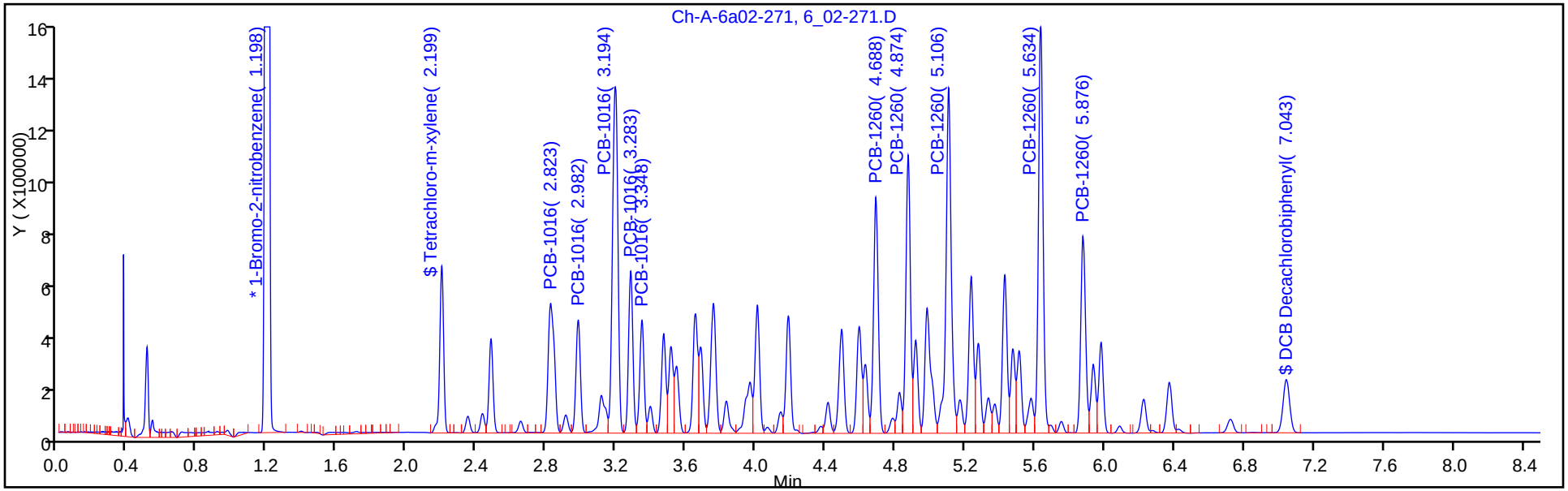
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TestAmerica Buffalo

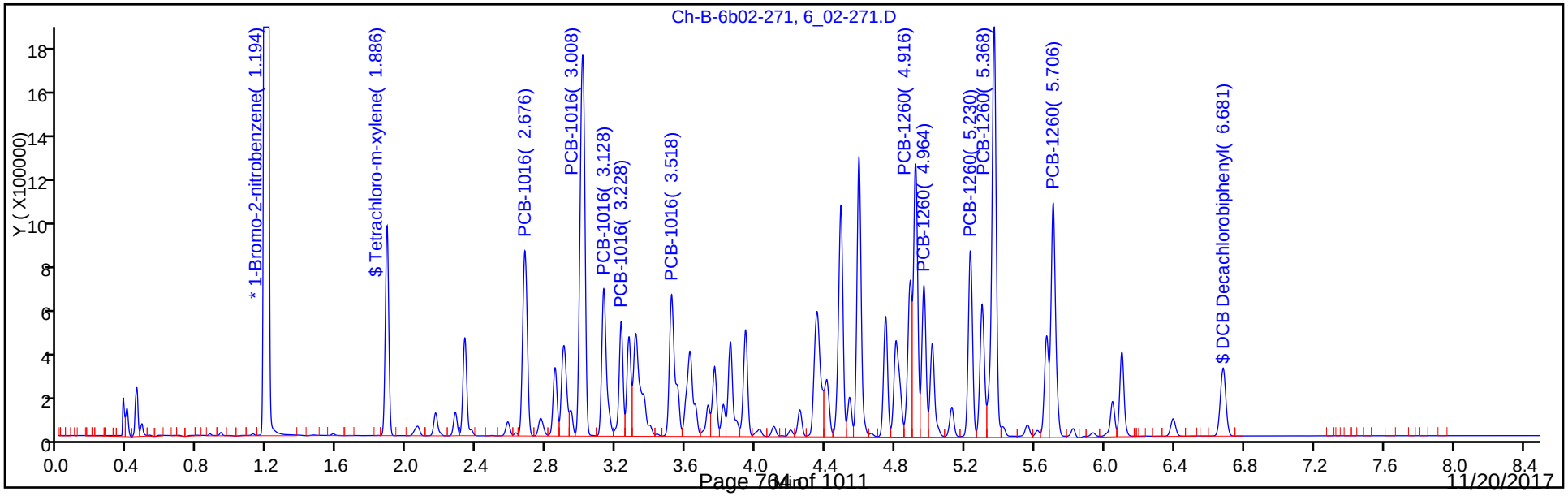
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-271.D

Injection Date:	28-Oct-2017 15:02:11	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-272.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-Oct-2017 15:18:12 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 14:07:13 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:21:50

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	18054981	0.5000	0.5000	
2	1.193	1.193	0.000	20467009	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.199	2.199	0.000	482924	0.0125	0.0124	
2	1.886	1.886	0.000	657446	0.0125	0.0124	
						RPD = 0.02	
6 PCB-1016							M
1	2.823	2.823	0.000	628357	0.5000	0.5589	
1	2.982	2.982	0.000	386662	0.5000	0.5500	a
1	3.195	3.195	0.000	1419920	0.5000	0.5179	a
1	3.283	3.283	0.000	540286	0.5000	0.5101	a
1	3.348	3.348	0.000	369984	0.5000	0.5093	a
		Average of Peak Amounts =				0.5292	
2	2.676	2.676	0.000	821700	0.5000	0.4509	M
2	3.007	3.007	0.000	1725944	0.5000	0.4669	M
2	3.128	3.128	0.000	652333	0.5000	0.4572	M
2	3.228	3.228	0.000	422462	0.5000	0.4856	M
2	3.518	3.518	0.000	762362	0.5000	0.4514	M
		Average of Peak Amounts =				0.4624	
						RPD = 13.48	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.689	4.689	0.000	878311	0.5000	0.5061	
1	4.874	4.874	0.000	905311	0.5000	0.4709	
1	5.108	5.108	0.000	1326338	0.5000	0.5074	
1	5.636	5.636	0.000	1327662	0.5000	0.4927	
1	5.878	5.878	0.000	688243	0.5000	0.4751	
		Average of Peak Amounts =				0.4904	
2	4.917	4.917	0.000	1036363	0.5000	0.4615	M
2	4.965	4.965	0.000	571947	0.5000	0.4561	M
2	5.232	5.232	0.000	706199	0.5000	0.4717	M
2	5.368	5.368	0.000	1634202	0.5000	0.4707	M
2	5.706	5.706	0.000	964828	0.5000	0.4590	M
		Average of Peak Amounts =				0.4638	
						RPD = 5.58	
$ 15 DCB Decachlorobiphenyl							
1	7.046	7.046	0.000	266851	0.0125	0.0122	
2	6.681	6.681	0.000	352245	0.0125	0.0131	
						RPD = 7.38	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00014 Amount Added: 1.00 Units: mL

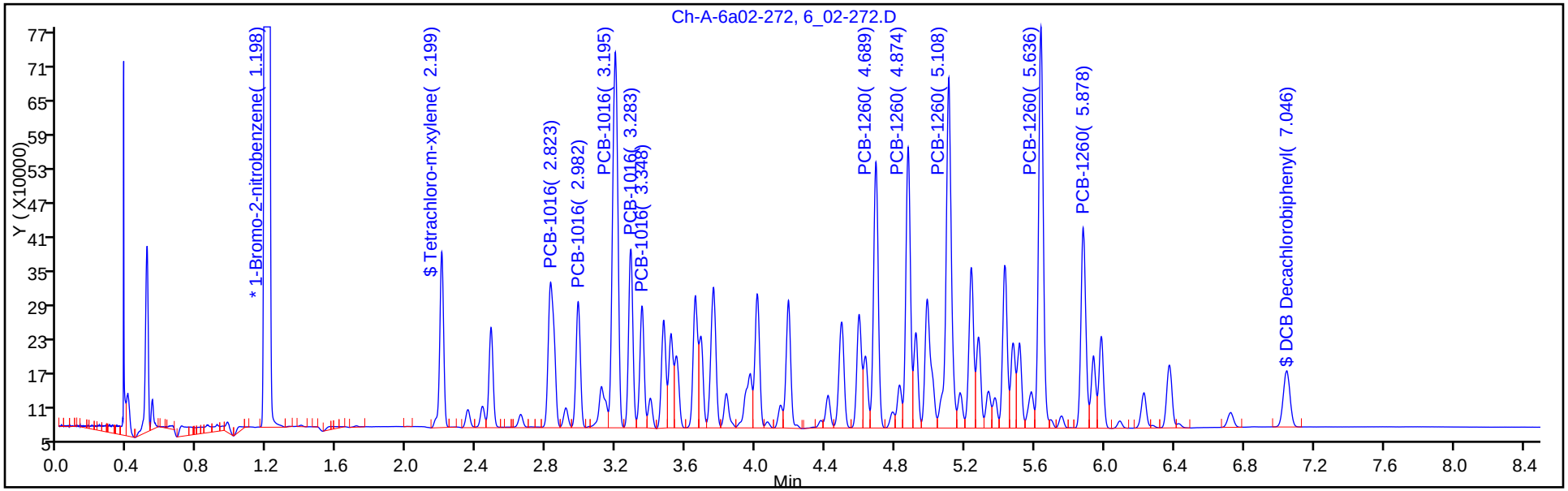
Report Date: 30-Oct-2017 14:07:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

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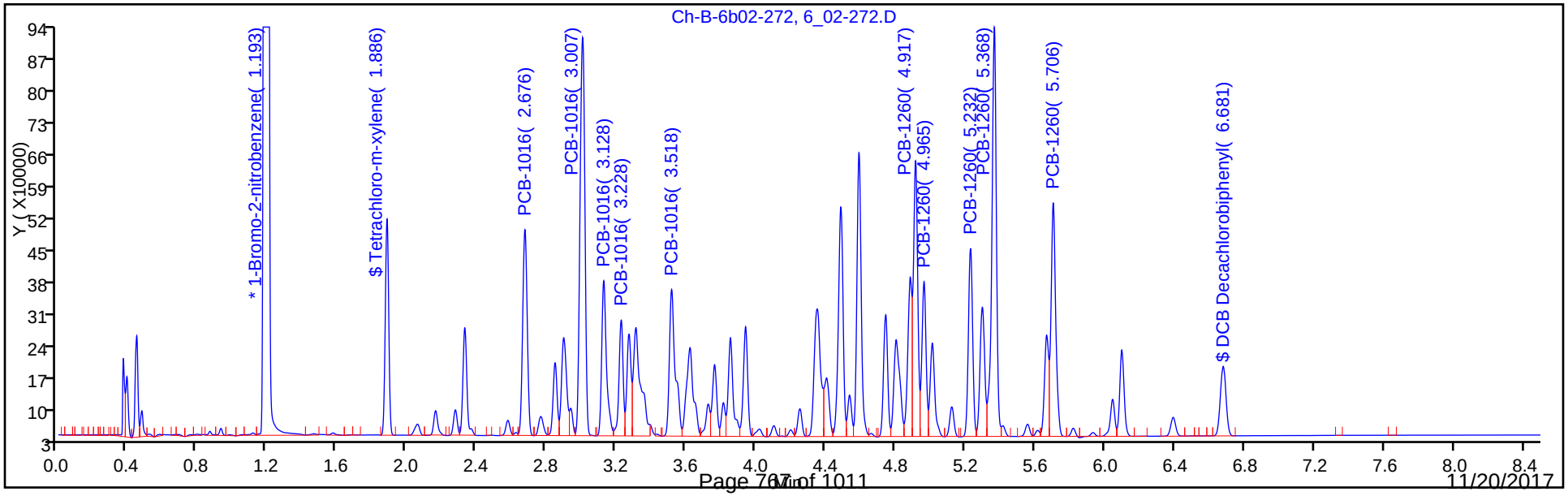
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-272.D

Injection Date:	28-Oct-2017 15:18:12	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Oct-2017 14:07:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-272.D

Injection Date: 28-Oct-2017 15:18:12 Instrument ID: HP6890-6

Lims ID: ICIS 5

Client ID:

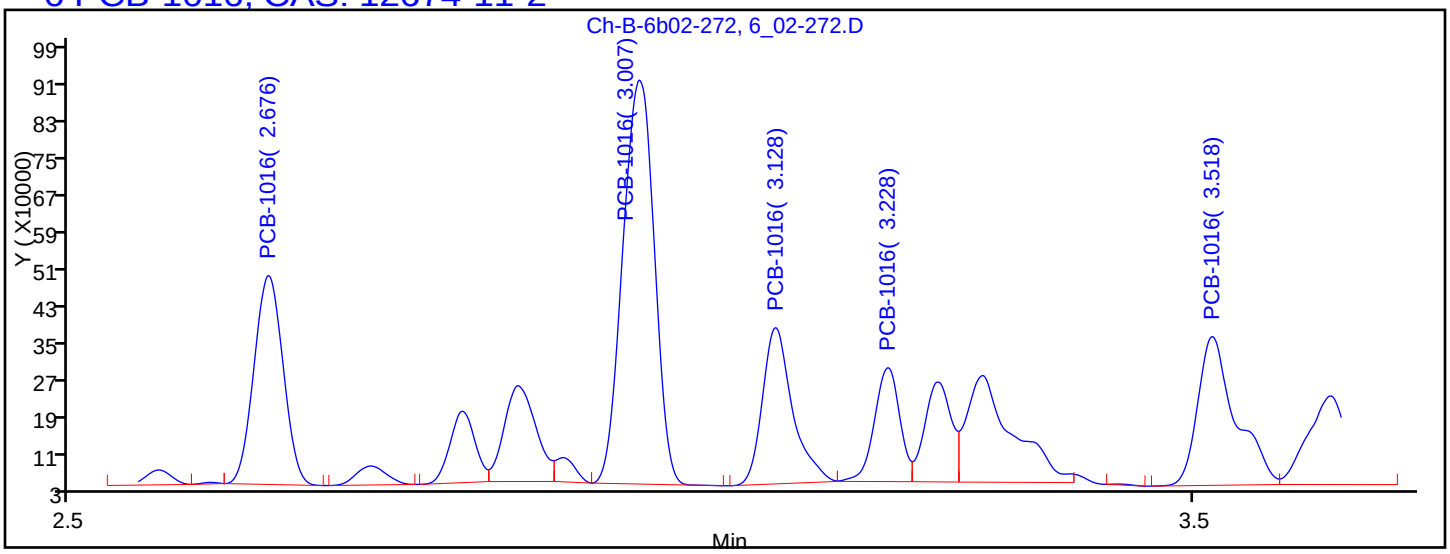
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

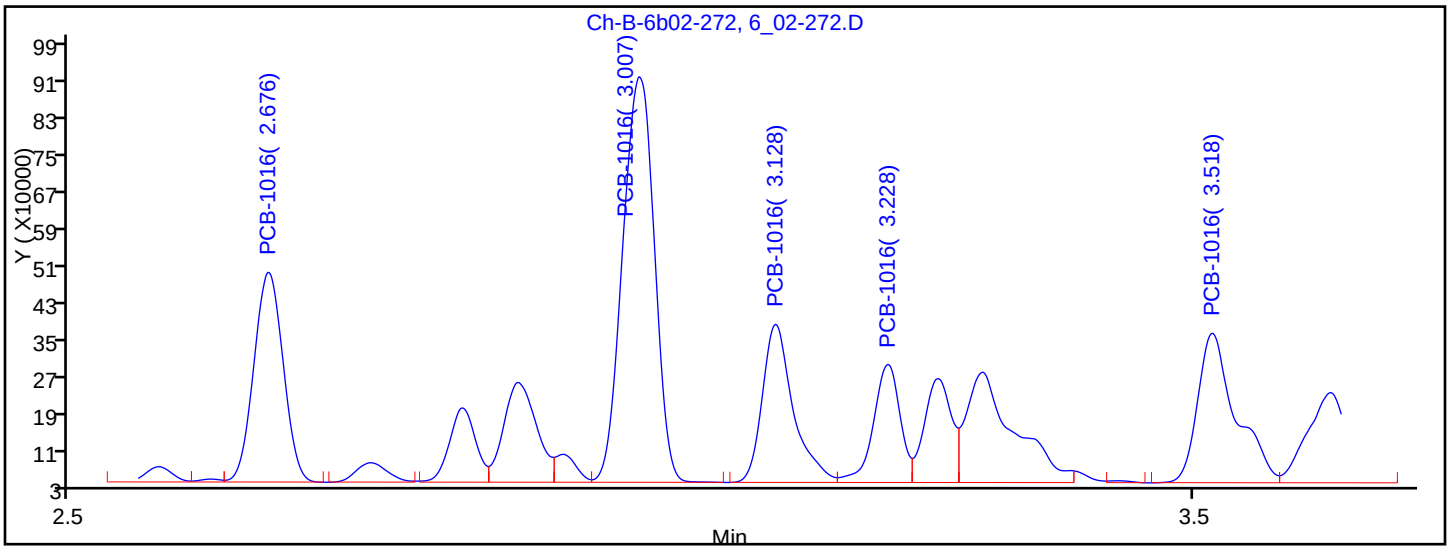
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.676	Response = 812974
3.007	Response = 1707991
3.128	Response = 626282
3.228	Response = 386200
3.518	Response = 752453



Manual Integration Results

2.676	Response = 821700	M
3.007	Response = 1725944	M
3.128	Response = 652333	M
3.228	Response = 422462	M
3.518	Response = 762362	M

Reviewer: owenj, 30-Oct-2017 10:20:44

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 14:07:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-272.D

Injection Date: 28-Oct-2017 15:18:12 Instrument ID: HP6890-6

Lims ID: ICIS 5

Client ID:

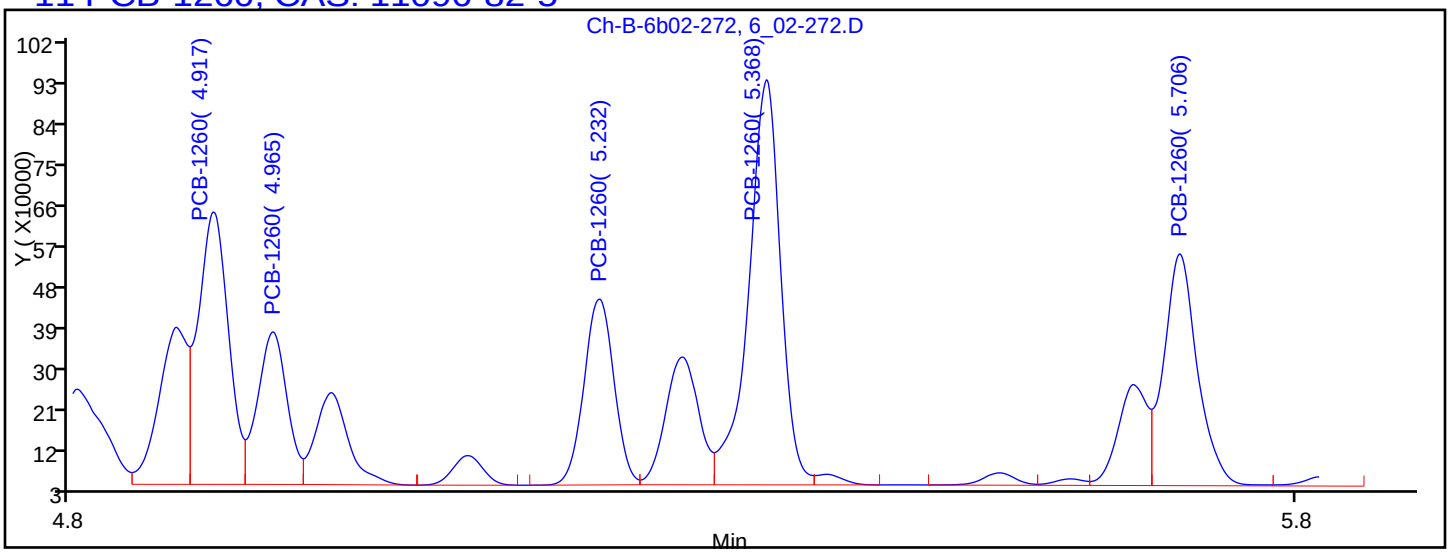
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

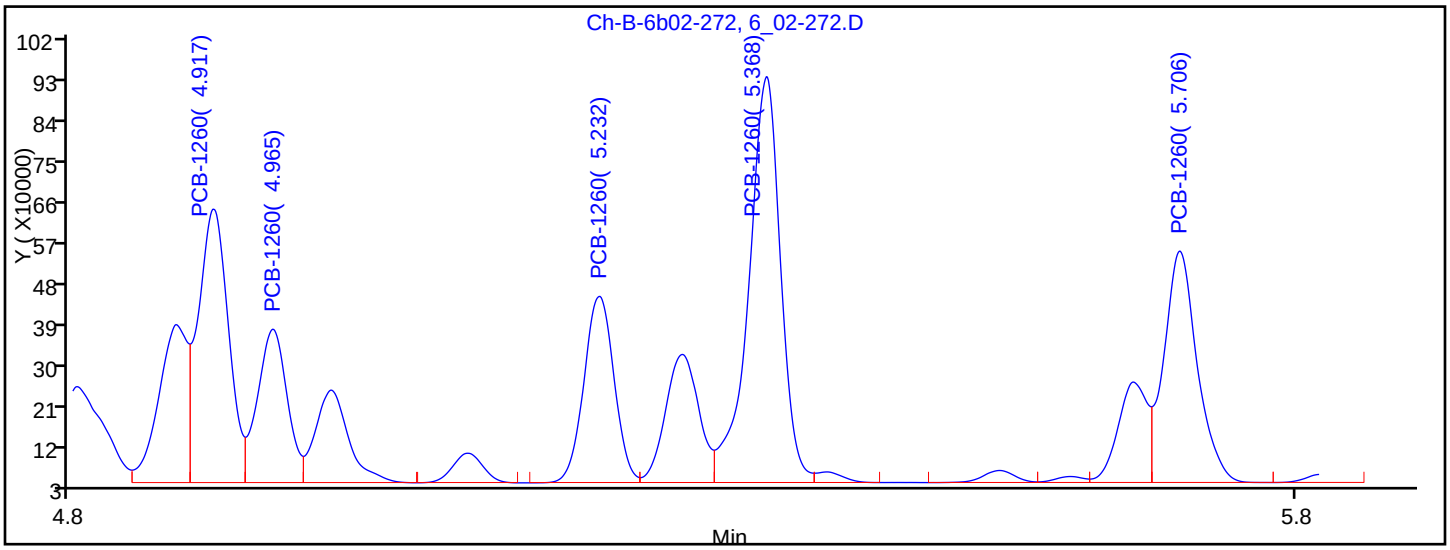
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.917	Response = 1032974
4.965	Response = 568683
5.232	Response = 707255
5.368	Response = 1633884
5.706	Response = 977091



Manual Integration Results

4.917	Response = 1036363	M
4.965	Response = 571947	M
5.232	Response = 706199	M
5.368	Response = 1634202	M
5.706	Response = 964828	M

Reviewer: owenj, 30-Oct-2017 10:20:43

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-273.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Oct-2017 15:34:24 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:43 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:25:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	19199390	0.5000	0.5000	
2	1.195	1.195	0.000	21380275	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.200	2.200	0.000	191867	0.005000	0.004615	M
2	1.887	1.887	0.000	264742	0.005000	0.004762	
						RPD = 3.14	
6 PCB-1016							M
1	2.824	2.824	0.000	237351	0.2000	0.1985	M
1	2.983	2.983	0.000	146212	0.2000	0.1956	M
1	3.194	3.194	0.000	529317	0.2000	0.1816	M
1	3.283	3.283	0.000	203209	0.2000	0.1804	M
1	3.348	3.348	0.000	138490	0.2000	0.1793	M
		Average of Peak Amounts =				0.1871	
2	2.677	2.677	0.000	364586	0.2000	0.1915	M
2	3.008	3.008	0.000	735045	0.2000	0.1904	M
2	3.129	3.129	0.000	283001	0.2000	0.1899	M
2	3.229	3.229	0.000	173656	0.2000	0.1911	M
2	3.518	3.518	0.000	330218	0.2000	0.1872	M
		Average of Peak Amounts =				0.1900	
						RPD = 1.55	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.690	4.690	0.000	330276	0.2000	0.1790	
1	4.876	4.876	0.000	369440	0.2000	0.1807	
1	5.108	5.108	0.000	509897	0.2000	0.1834	
1	5.636	5.636	0.000	528253	0.2000	0.1844	
1	5.879	5.879	0.000	283313	0.2000	0.1839	
		Average of Peak Amounts =				0.1823	
2	4.919	4.919	0.000	441079	0.2000	0.1880	M
2	4.967	4.967	0.000	246844	0.2000	0.1884	M
2	5.233	5.233	0.000	287737	0.2000	0.1840	M
2	5.370	5.370	0.000	680697	0.2000	0.1877	M
2	5.708	5.708	0.000	412480	0.2000	0.1879	M
		Average of Peak Amounts =				0.1872	
						RPD = 2.66	
$ 15 DCB Decachlorobiphenyl							
1	7.048	7.048	0.000	113172	0.005000	0.004859	
2	6.683	6.683	0.000	163701	0.005000	0.005523	
						RPD = 12.79	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00007 Amount Added: 1.00 Units: mL

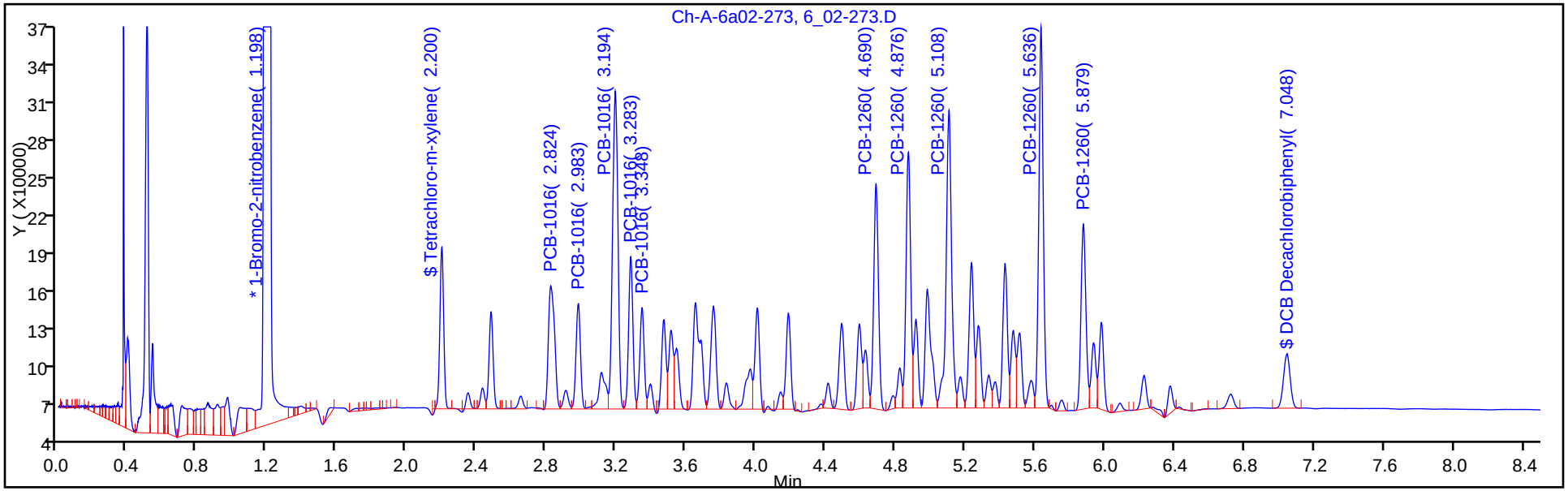
Report Date: 30-Oct-2017 12:28:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

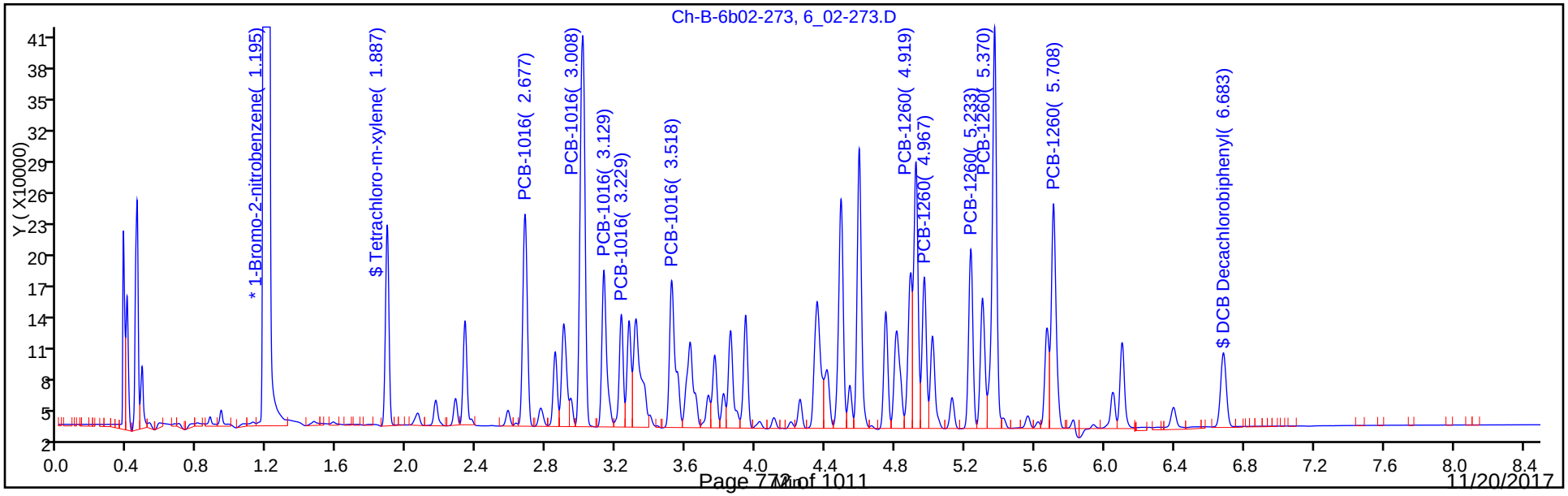
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-273.D

Injection Date:	28-Oct-2017 15:34:24	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Oct-2017 12:28:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-273.D

Injection Date: 28-Oct-2017 15:34:24 Instrument ID: HP6890-6

Lims ID: IC 4

Client ID:

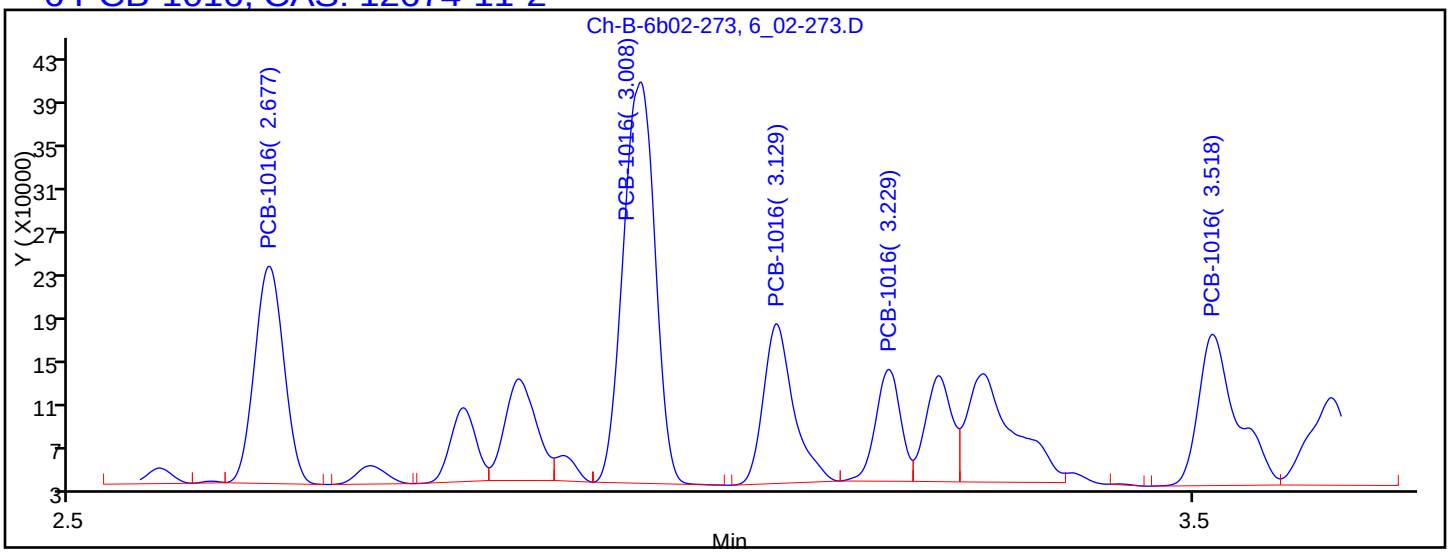
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

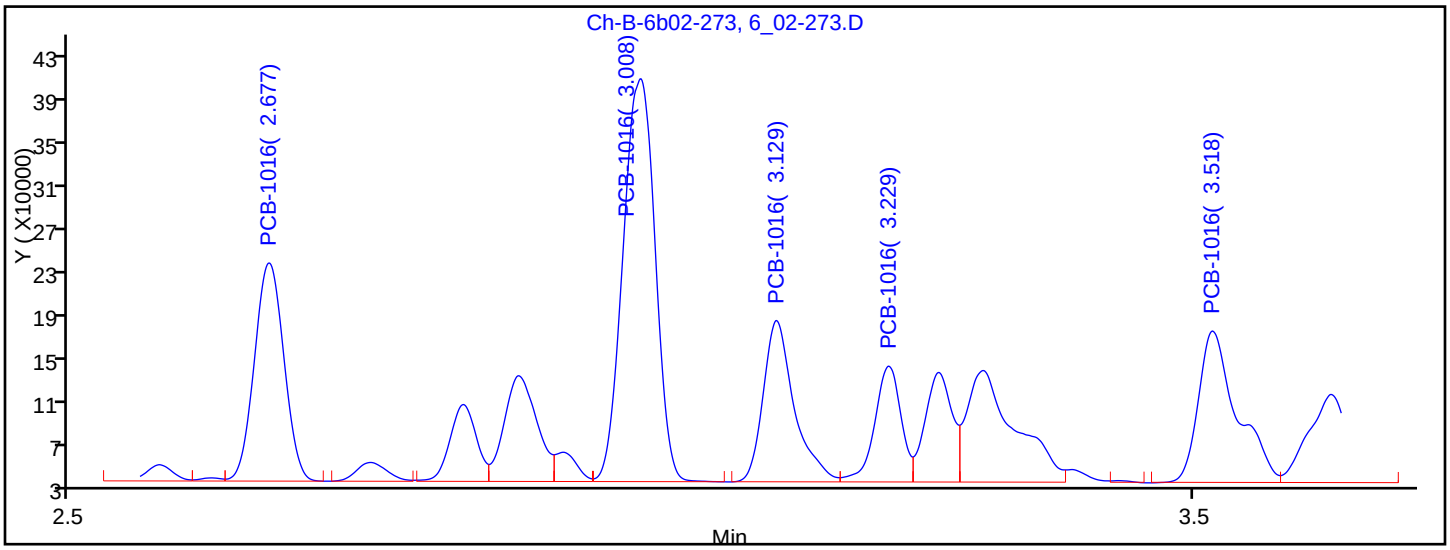
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.677	Response = 360898
3.008	Response = 727272
3.129	Response = 272465
3.229	Response = 159246
3.518	Response = 329445



Manual Integration Results

2.677	Response = 364586	M
3.008	Response = 735045	M
3.129	Response = 283001	M
3.229	Response = 173656	M
3.518	Response = 330218	M

Reviewer: owenj, 30-Oct-2017 10:24:56

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:28:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-273.D

Injection Date: 28-Oct-2017 15:34:24 Instrument ID: HP6890-6

Lims ID: IC 4

Client ID:

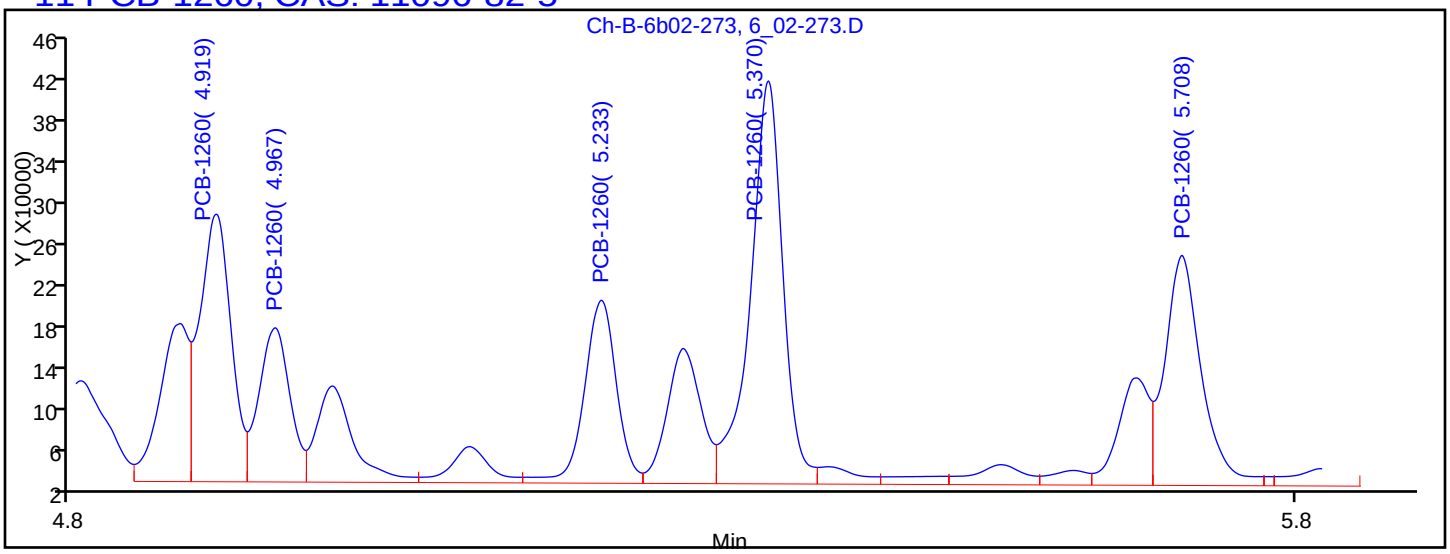
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

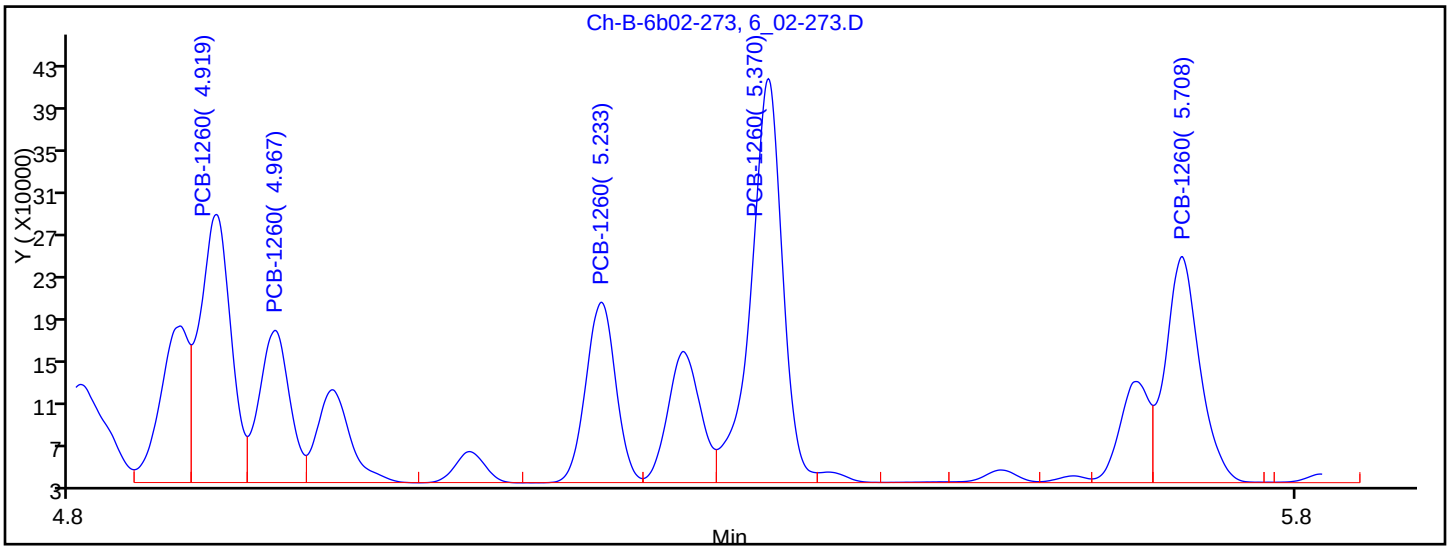
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.919	Response = 453520
4.967	Response = 260562
5.233	Response = 322093
5.370	Response = 712781
5.708	Response = 456408



Manual Integration Results

4.919	Response = 441079	M
4.967	Response = 246844	M
5.233	Response = 287737	M
5.370	Response = 680697	M
5.708	Response = 412480	M

Reviewer: owenj, 30-Oct-2017 10:24:53

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-274.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Oct-2017 15:50:18 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:48 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:24:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	17791931	0.5000	0.5000	
2	1.193	1.193	0.000	20254312	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.199	2.199	0.000	94402	0.002500	0.002450	M
2	1.885	1.885	0.000	133890	0.002500	0.002542	
						RPD = 3.69	
6 PCB-1016							M
1	2.825	2.825	0.000	120711	0.1000	0.1090	M
1	2.982	2.982	0.000	81580	0.1000	0.1178	M
1	3.195	3.195	0.000	286116	0.1000	0.1059	M
1	3.283	3.283	0.000	110496	0.1000	0.1059	M
1	3.348	3.348	0.000	75470	0.1000	0.1054	M
		Average of Peak Amounts =				0.1088	
2	2.676	2.676	0.000	189008	0.1000	0.1048	
2	3.006	3.006	0.000	371564	0.1000	0.1016	
2	3.128	3.128	0.000	143730	0.1000	0.1018	
2	3.229	3.229	0.000	86713	0.1000	0.1007	
2	3.518	3.518	0.000	171208	0.1000	0.1024	
		Average of Peak Amounts =				0.1023	
						RPD = 6.17	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.691	4.691	0.000	171261	0.1000	0.1001	
1	4.875	4.875	0.000	189937	0.1000	0.1003	
1	5.106	5.106	0.000	259518	0.1000	0.1007	
1	5.636	5.636	0.000	264897	0.1000	0.0998	
1	5.878	5.878	0.000	144837	0.1000	0.1015	
		Average of Peak Amounts =				0.1005	
2	4.918	4.918	0.000	219749	0.1000	0.0989	
2	4.966	4.966	0.000	123276	0.1000	0.0993	
2	5.233	5.233	0.000	150039	0.1000	0.1013	
2	5.368	5.368	0.000	333623	0.1000	0.0971	
2	5.707	5.707	0.000	204637	0.1000	0.0984	
		Average of Peak Amounts =				0.0990	
						RPD = 1.48	
$ 15 DCB Decachlorobiphenyl							
1	7.045	7.045	0.000	57533	0.002500	0.002666	
2	6.681	6.681	0.000	84694	0.002500	0.002760	
						RPD = 3.49	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00008 Amount Added: 1.00 Units: mL

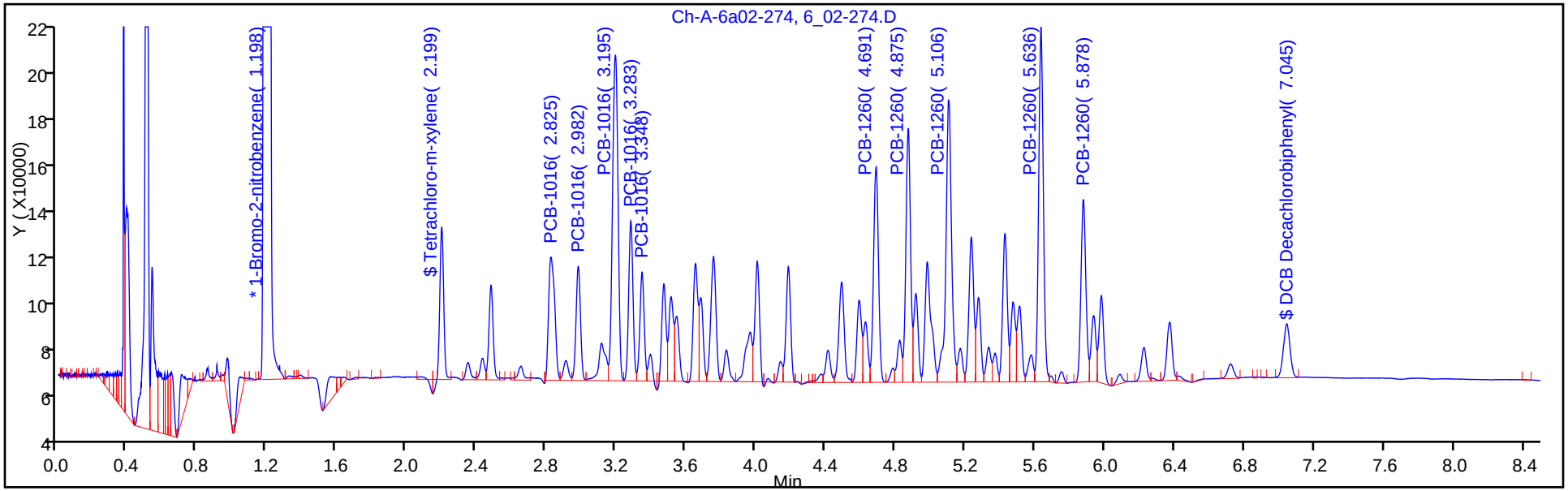
Report Date: 30-Oct-2017 12:28:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

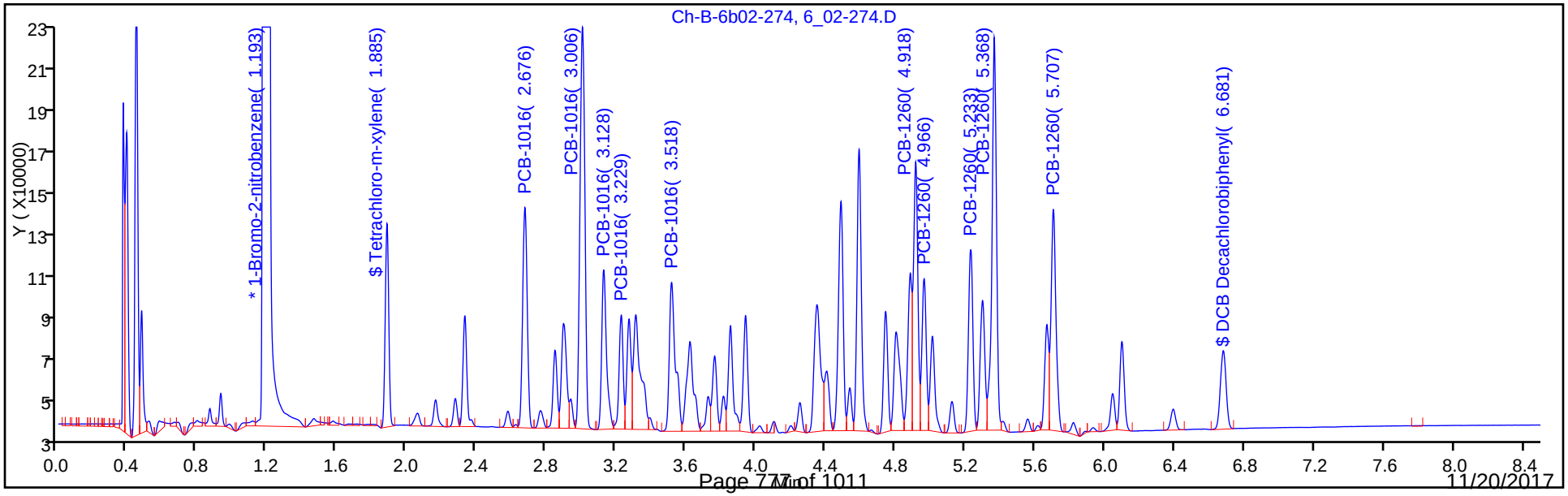
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-274.D

Injection Date:	28-Oct-2017 15:50:18	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-275.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Oct-2017 16:06:17 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:53 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:23:50

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	16301597	0.5000	0.5000	
2	1.193	1.193	0.000	18696142	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.199	2.199	0.000	46614	0.001250	0.001321	M
2	1.886	1.886	0.000	68281	0.001250	0.001405	
						RPD = 6.17	
6 PCB-1016							M
1	2.828	2.828	0.000	57628	0.0500	0.0568	M
1	2.982	2.982	0.000	36677	0.0500	0.0578	M
1	3.195	3.195	0.000	141161	0.0500	0.0570	M
1	3.283	3.283	0.000	56385	0.0500	0.0590	M
1	3.349	3.349	0.000	39002	0.0500	0.0595	M
		Average of Peak Amounts =				0.0580	
2	2.676	2.676	0.000	99383	0.0500	0.0597	M
2	3.008	3.008	0.000	188629	0.0500	0.0559	M
2	3.128	3.128	0.000	74968	0.0500	0.0575	M
2	3.229	3.229	0.000	44134	0.0500	0.0555	M
2	3.518	3.518	0.000	88701	0.0500	0.0575	M
		Average of Peak Amounts =				0.0572	
						RPD = 1.35	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.690	4.690	0.000	87220	0.0500	0.0557	M
1	4.875	4.875	0.000	97476	0.0500	0.0562	M
1	5.108	5.108	0.000	125630	0.0500	0.0532	M
1	5.636	5.636	0.000	129418	0.0500	0.0532	M
1	5.880	5.880	0.000	72428	0.0500	0.0554	
		Average of Peak Amounts =				0.0547	
2	4.918	4.918	0.000	113946	0.0500	0.0555	M
2	4.966	4.966	0.000	65689	0.0500	0.0573	M
2	5.233	5.233	0.000	77209	0.0500	0.0565	M
2	5.369	5.369	0.000	172090	0.0500	0.0543	M
2	5.708	5.708	0.000	106722	0.0500	0.0556	M
		Average of Peak Amounts =				0.0558	
						RPD = 2.02	
$ 15 DCB Decachlorobiphenyl							
1	7.047	7.047	0.000	26706	0.001250	0.001350	
2	6.684	6.684	0.000	49804	0.001250	0.001554	
						RPD = 14.01	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00007 Amount Added: 1.00 Units: mL

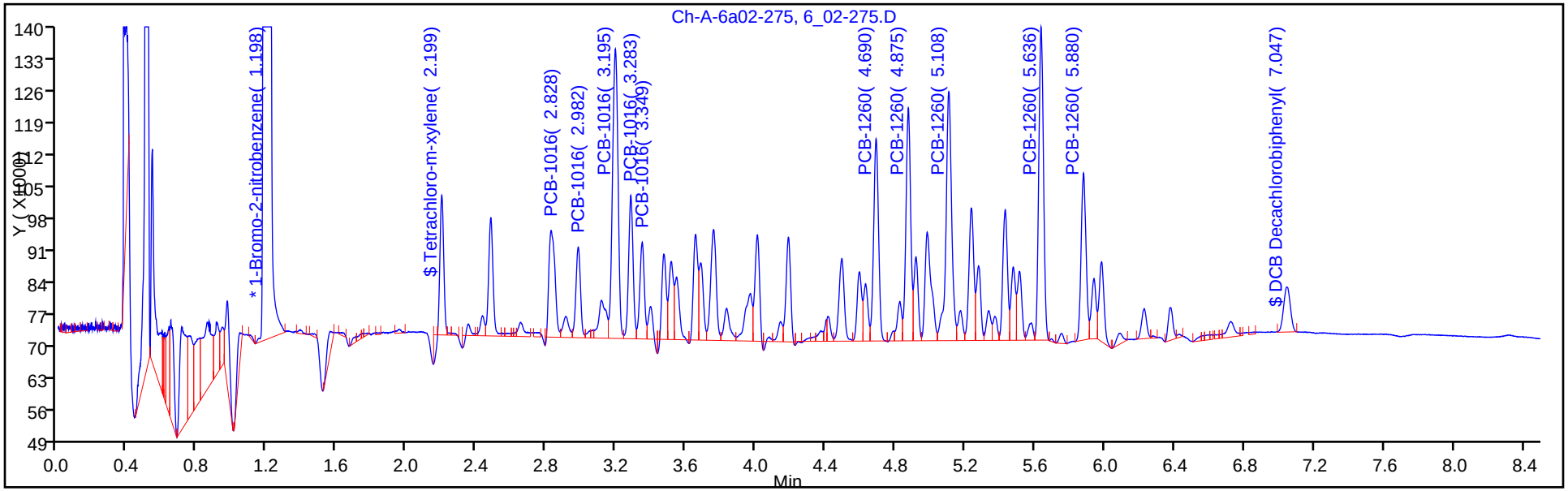
Report Date: 30-Oct-2017 12:28:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

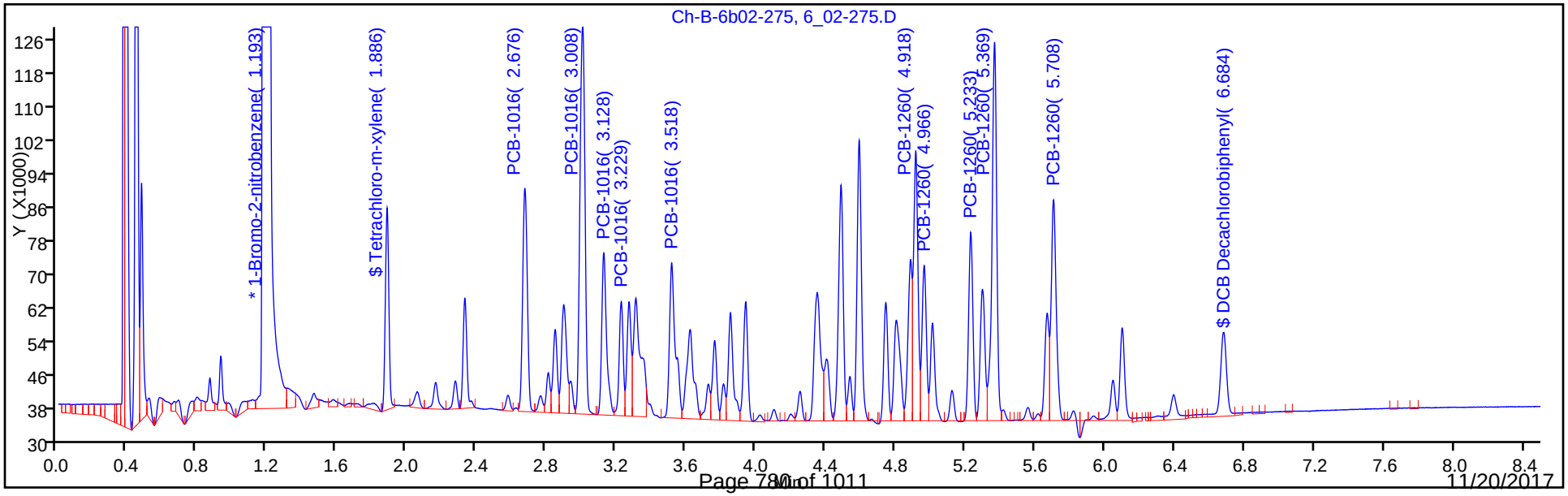
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-275.D

Injection Date:	28-Oct-2017 16:06:17	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Oct-2017 12:28:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-275.D

Injection Date: 28-Oct-2017 16:06:17 Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

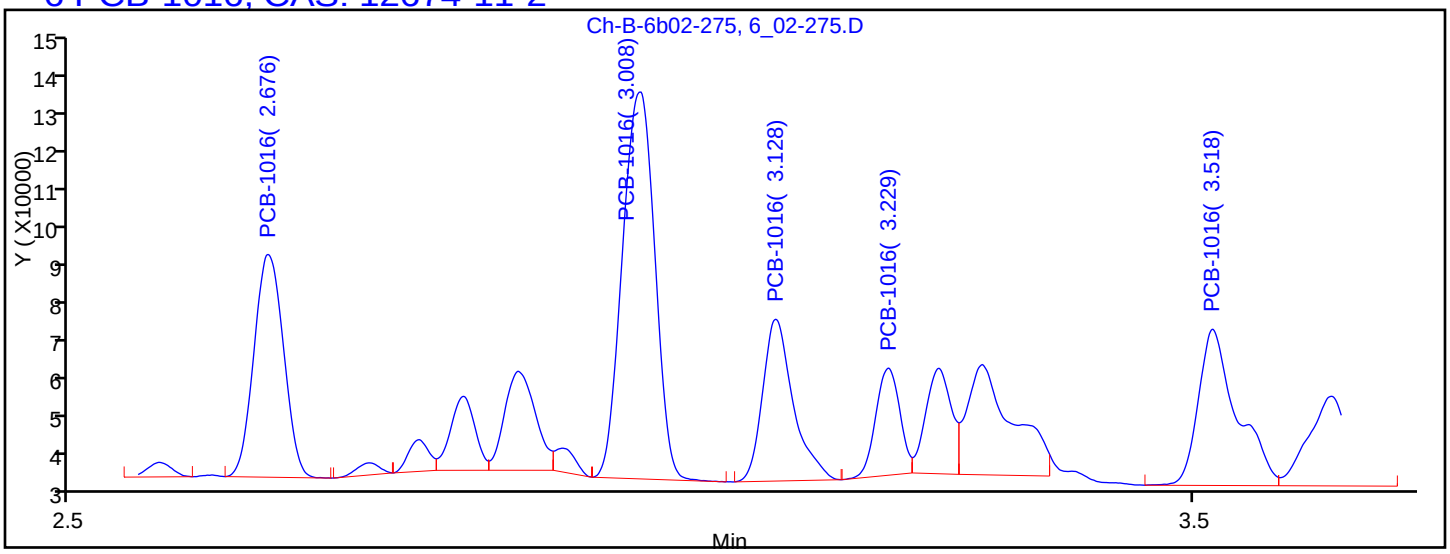
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

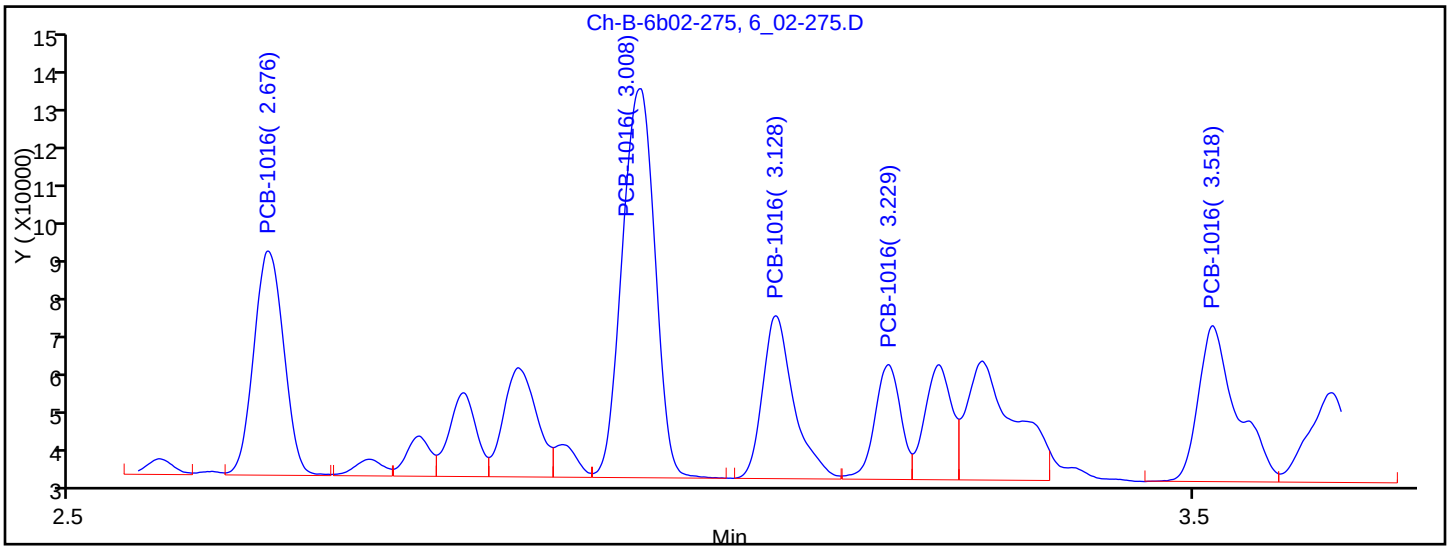
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.676	Response = 97317
3.008	Response = 185404
3.128	Response = 72882
3.229	Response = 38228
3.518	Response = 89101



Manual Integration Results

2.676	Response = 99383	M
3.008	Response = 188629	M
3.128	Response = 74968	M
3.229	Response = 44134	M
3.518	Response = 88701	M

Reviewer: owenj, 30-Oct-2017 10:23:40

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:28:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-275.D

Injection Date: 28-Oct-2017 16:06:17 Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

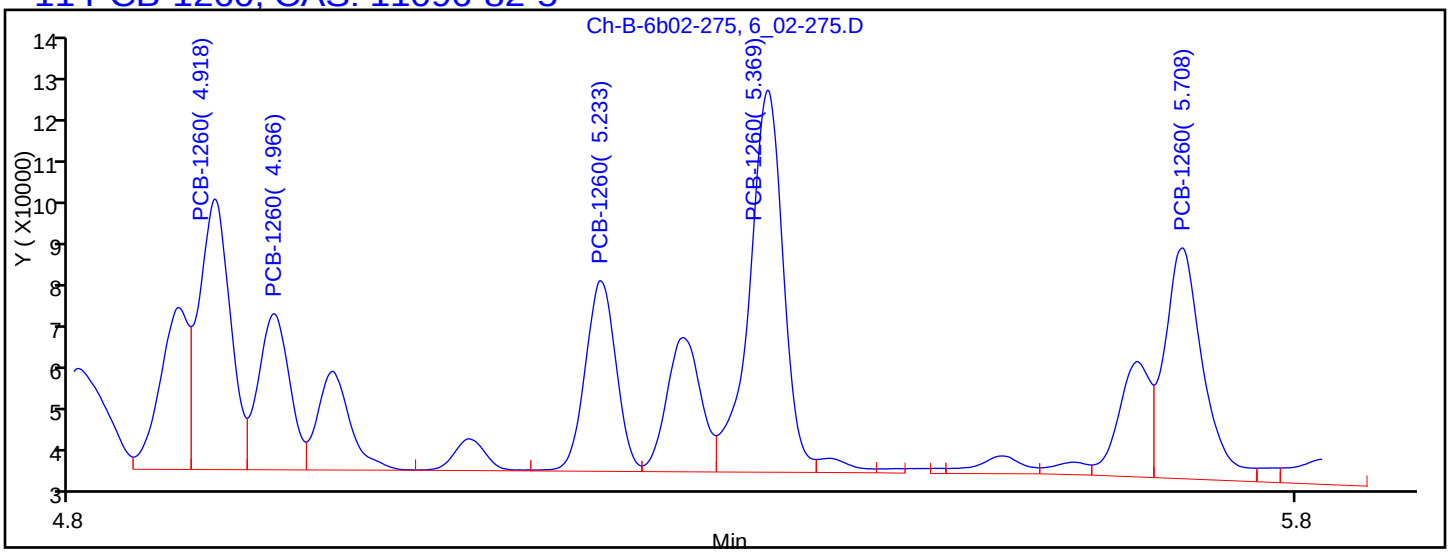
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

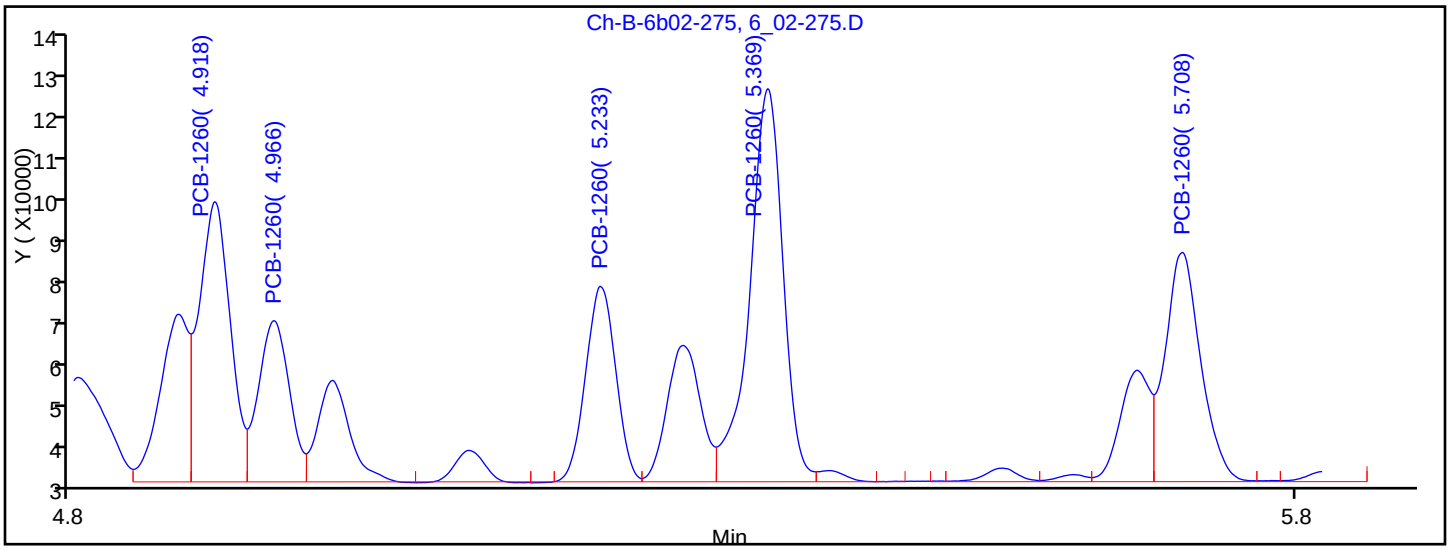
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.918	Response = 114225
4.966	Response = 66133
5.233	Response = 79789
5.369	Response = 175763
5.708	Response = 119623



Manual Integration Results

4.918	Response = 113946	M
4.966	Response = 65689	M
5.233	Response = 77209	M
5.369	Response = 172090	M
5.708	Response = 106722	M

Reviewer: owenj, 30-Oct-2017 10:23:35

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Oct-2017 16:22:23 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:59 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:22:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	17486407	0.5000	0.5000	
2	1.193	1.193	0.000	19773014	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.199	2.199	0.000	21873	0.000500	0.000578	M
2	1.885	1.885	0.000	27635	0.000500	0.000538	M
						RPD = 7.20	
6 PCB-1016							M
1	2.836	2.836	0.000	17504	0.0200	0.0161	M
1	2.982	2.982	0.000	9842	0.0200	0.0145	M
1	3.197	3.197	0.000	54135	0.0200	0.0204	M
1	3.284	3.284	0.000	22311	0.0200	0.0217	M
1	3.348	3.348	0.000	15047	0.0200	0.0214	M
		Average of Peak Amounts =				0.0188	
2	2.676	2.676	0.000	45786	0.0200	0.0260	M
2	3.008	3.008	0.000	87390	0.0200	0.0245	M
2	3.128	3.128	0.000	34937	0.0200	0.0253	M
2	3.229	3.229	0.000	19647	0.0200	0.0234	M
2	3.518	3.518	0.000	42370	0.0200	0.0260	M
		Average of Peak Amounts =				0.0250	
						RPD = 28.39	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.691	4.691	0.000	38465	0.0200	0.0229	M
1	4.875	4.875	0.000	42698	0.0200	0.0229	M
1	5.108	5.108	0.000	49891	0.0200	0.0197	M
1	5.636	5.636	0.000	52012	0.0200	0.0199	M
1	5.880	5.880	0.000	30907	0.0200	0.0220	M
		Average of Peak Amounts =				0.0215	
2	4.918	4.918	0.000	51759	0.0200	0.0239	M
2	4.966	4.966	0.000	30341	0.0200	0.0250	M
2	5.233	5.233	0.000	33317	0.0200	0.0230	M
2	5.368	5.368	0.000	79245	0.0200	0.0236	M
2	5.708	5.708	0.000	49042	0.0200	0.0242	M
		Average of Peak Amounts =				0.0239	
						RPD = 10.77	
$ 15 DCB Decachlorobiphenyl							M
1	7.048	7.048	0.000	11084	0.000500	0.000523	
2	6.683	6.683	0.000	20245	0.000500	0.000250	M
						RPD = 70.44	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00008 Amount Added: 1.00 Units: mL

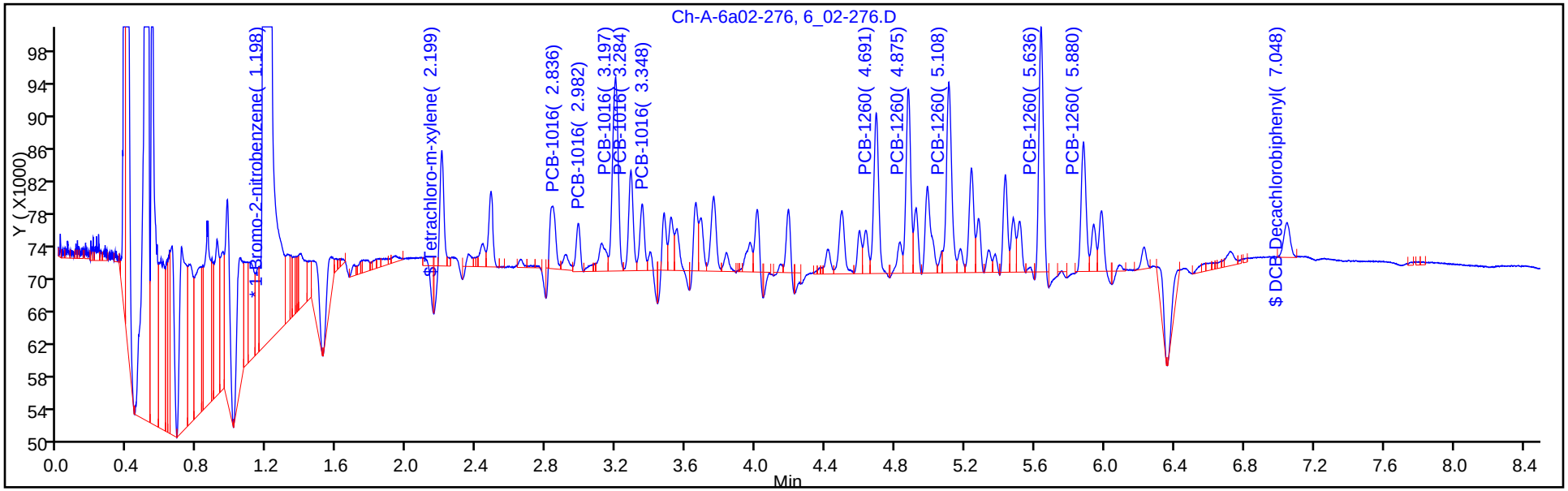
Report Date: 30-Oct-2017 12:29:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

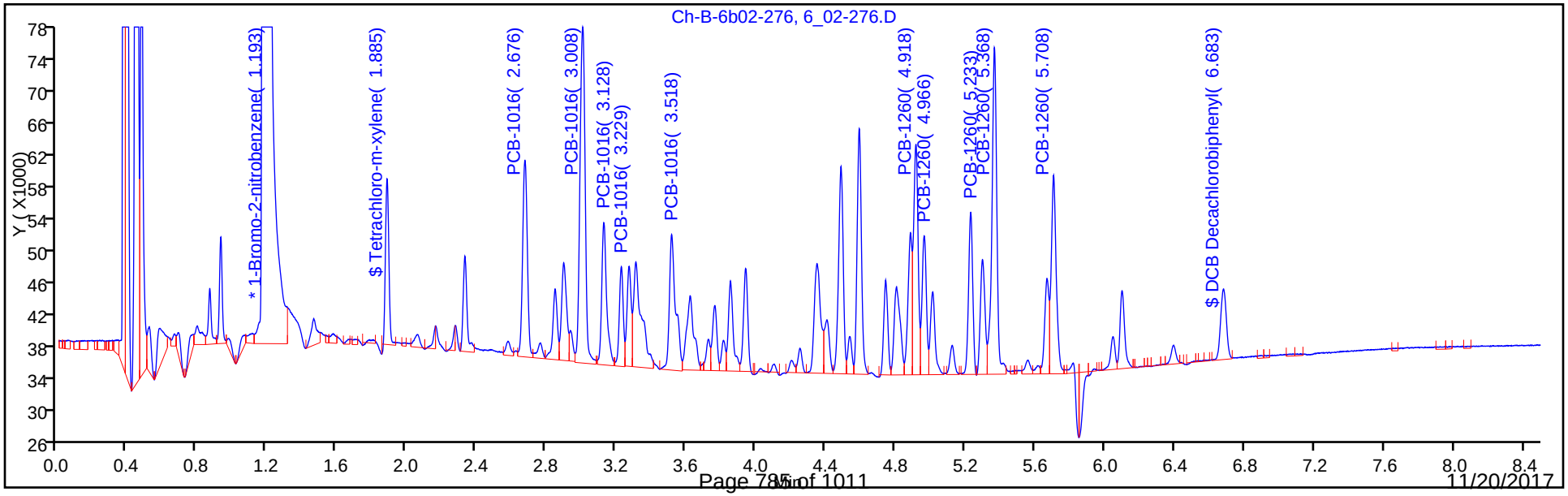
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D

Injection Date:	28-Oct-2017 16:22:23	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

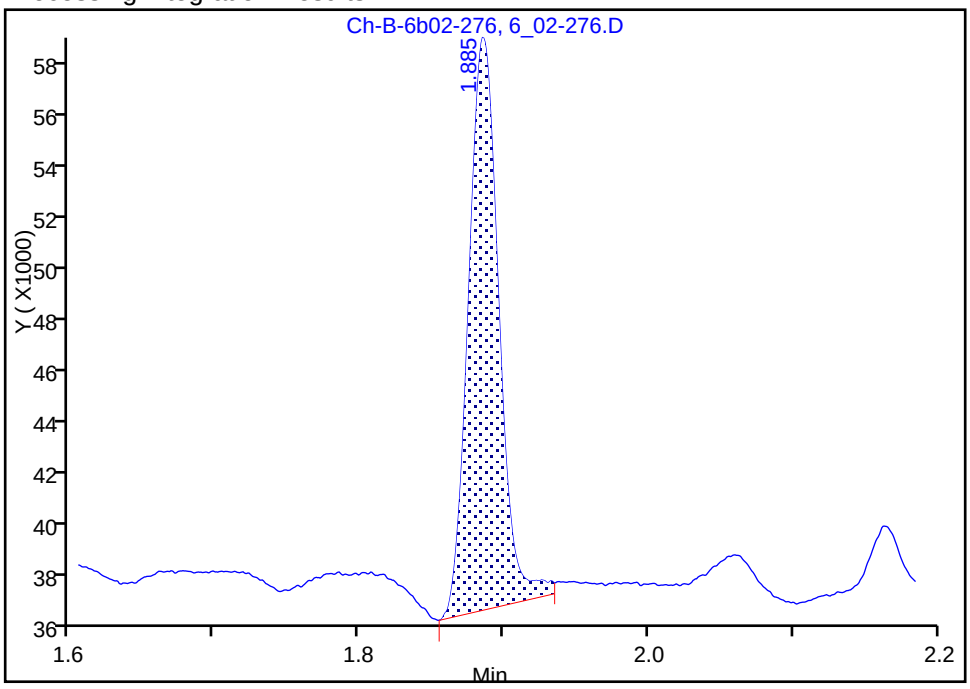
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D
Injection Date: 28-Oct-2017 16:22:23 Instrument ID: HP6890-6
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

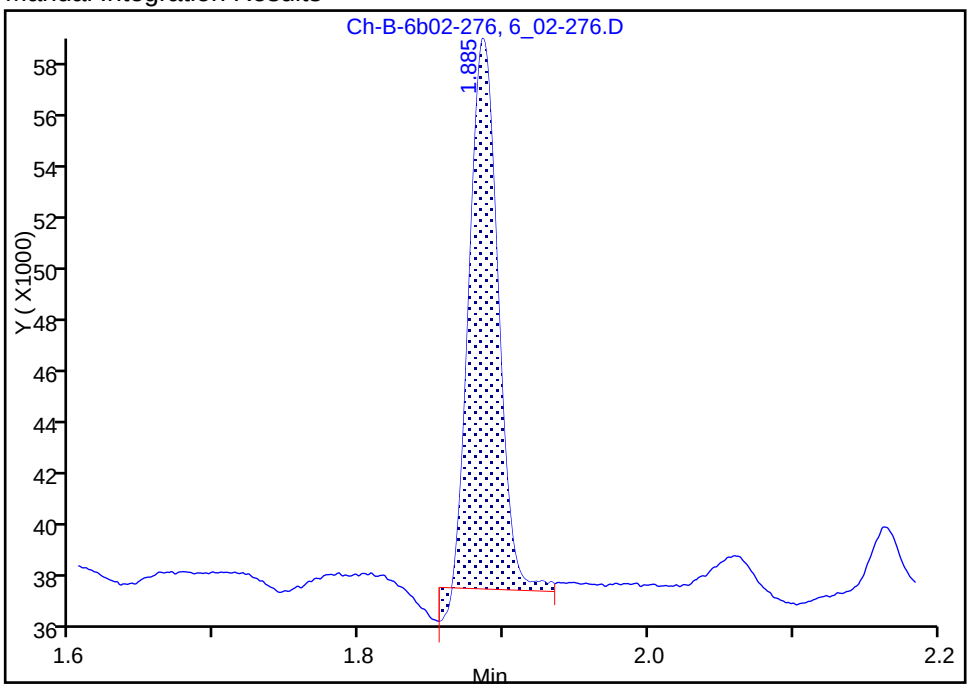
Processing Integration Results

RT: 1.89
Area: 30923
Amount: 0.000419
Amount Units: ng/uL



Manual Integration Results

RT: 1.89
Area: 27635
Amount: 0.000538
Amount Units: ng/uL



Reviewer: owenj, 30-Oct-2017 10:22:40
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:29:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D

Injection Date: 28-Oct-2017 16:22:23 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

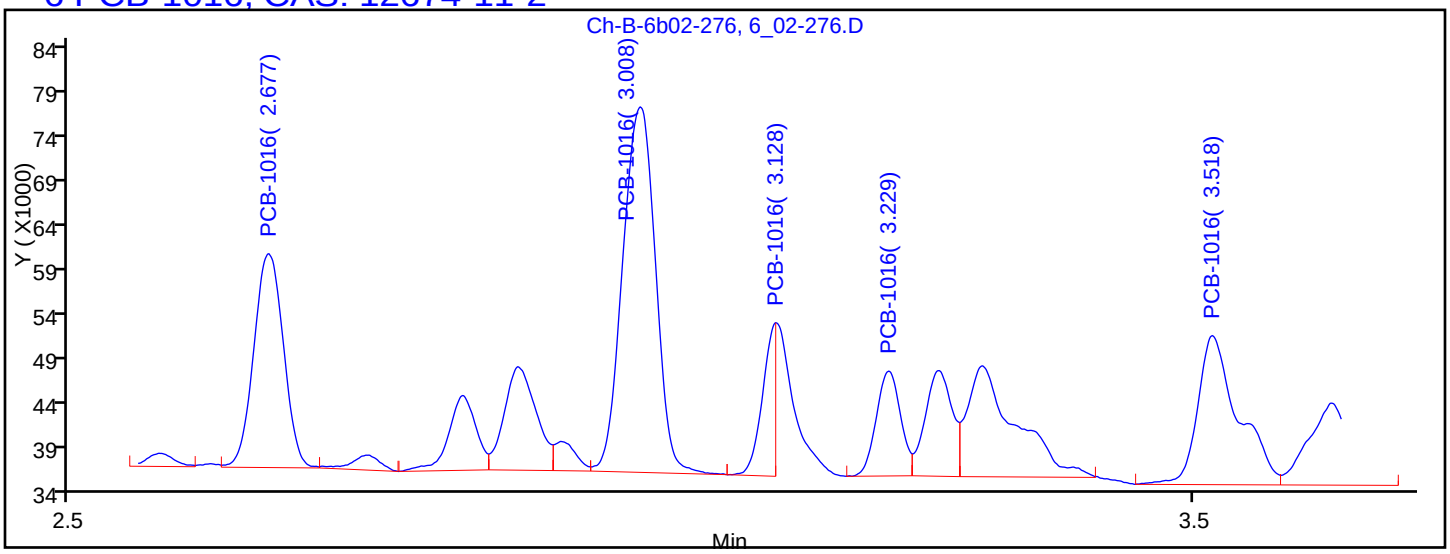
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

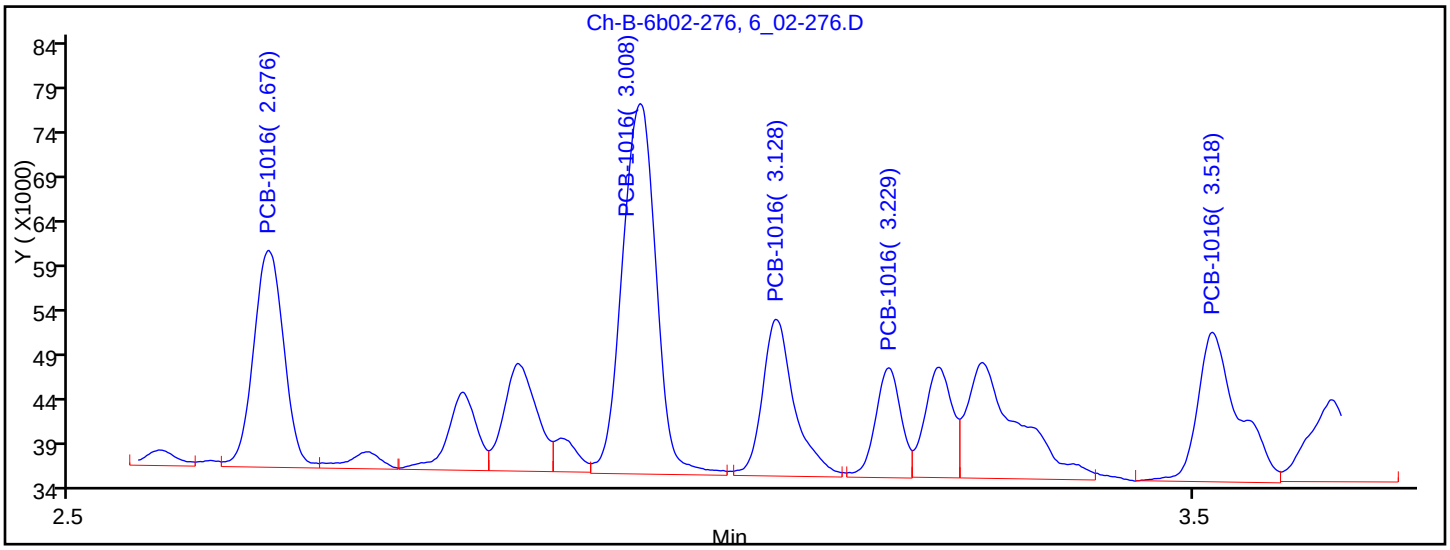
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.677	Response = 44012
3.008	Response = 83524
3.128	Response = 13470
3.229	Response = 17750
3.518	Response = 42017



Manual Integration Results

2.676	Response = 45786	M
3.008	Response = 87390	M
3.128	Response = 34937	M
3.229	Response = 19647	M
3.518	Response = 42370	M

Reviewer: owenj, 30-Oct-2017 10:22:40

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:29:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D

Injection Date: 28-Oct-2017 16:22:23 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

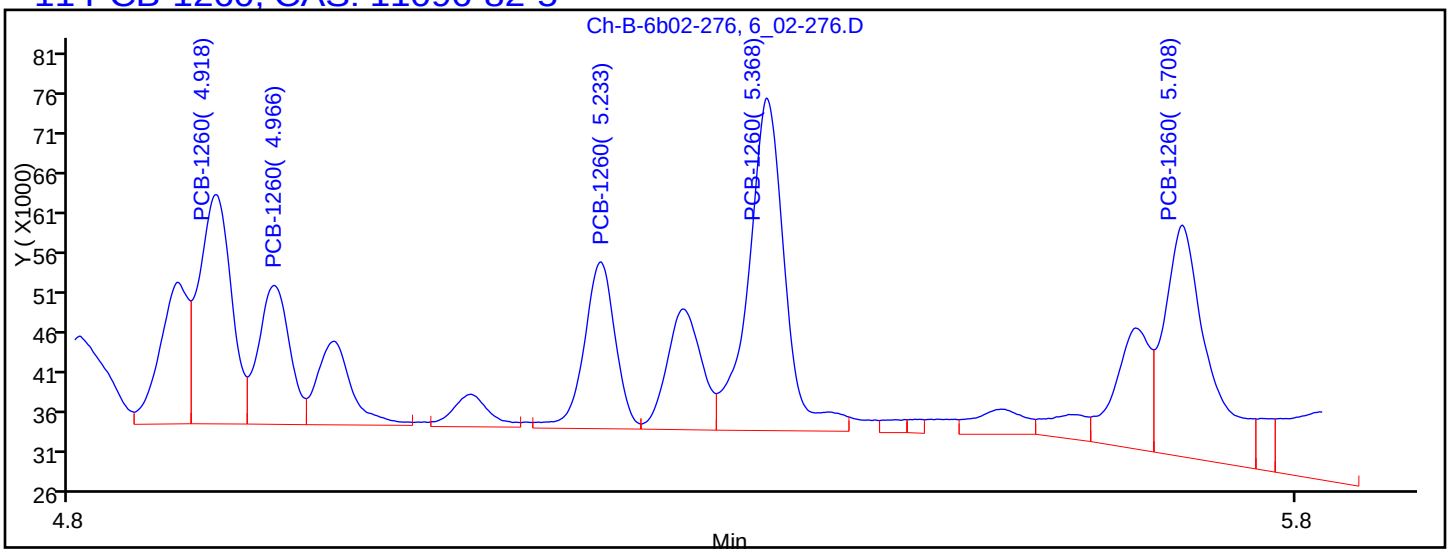
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

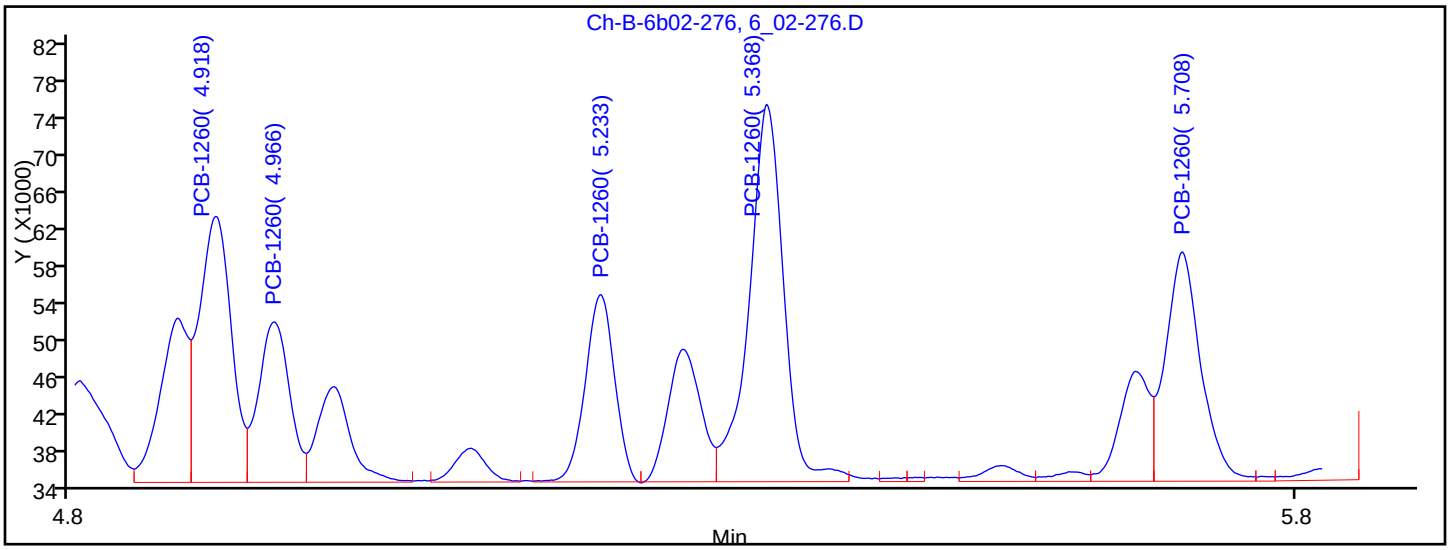
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.918	Response = 51859
4.966	Response = 30637
5.233	Response = 36820
5.368	Response = 85453
5.708	Response = 72507



Manual Integration Results

4.918	Response = 51759	M
4.966	Response = 30341	M
5.233	Response = 33317	M
5.368	Response = 79245	M
5.708	Response = 49042	M

Reviewer: owenj, 30-Oct-2017 10:22:34

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

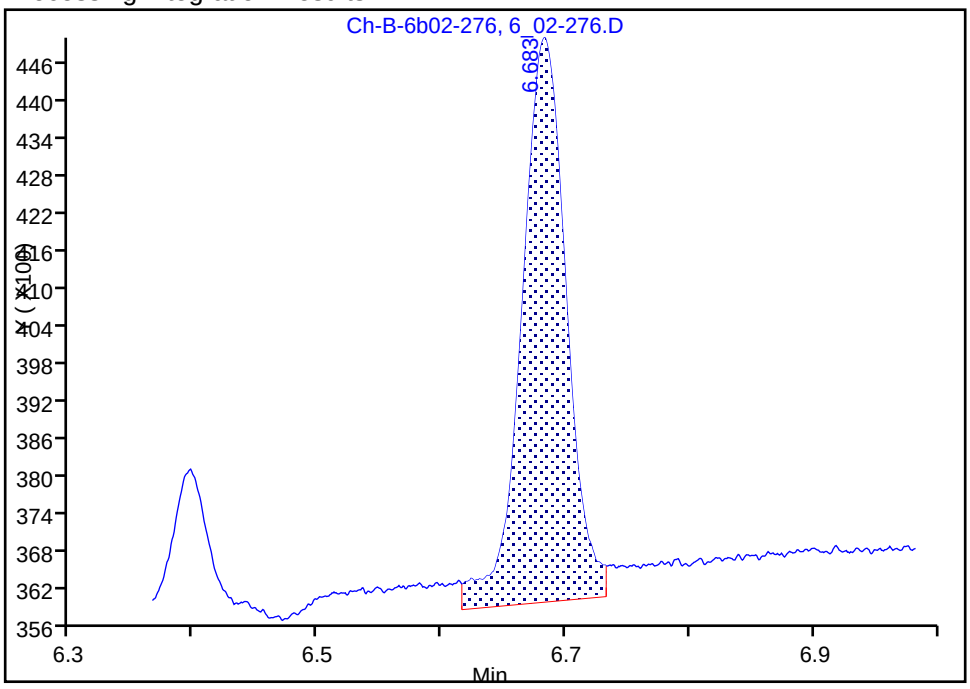
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-276.D
Injection Date: 28-Oct-2017 16:22:23 Instrument ID: HP6890-6
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

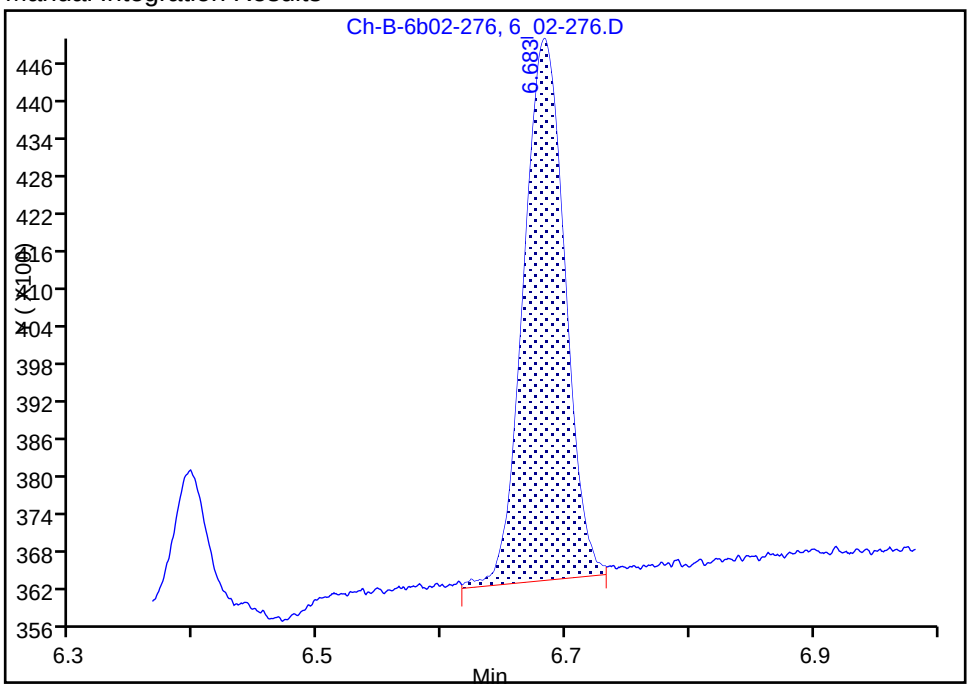
Processing Integration Results

RT: 6.68
Area: 22779
Amount: 0.000288
Amount Units: ng/uL



Manual Integration Results

RT: 6.68
Area: 20245
Amount: 0.000250
Amount Units: ng/uL



Reviewer: owenj, 30-Oct-2017 10:22:33
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 17:58 Calibration End Date: 10/28/2017 18:30 Calibration ID: 31827

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/20	6_02-284.D
Level 2	IC 480-384409/19	6_02-283.D
Level 3	IC 480-384409/18	6_02-282.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	+++++	0.0055	+++++			Ave		0.0055						20.0			
PCB-1221 Peak 2	+++++	0.0102	+++++			Ave		0.0102						20.0			
PCB-1221 Peak 3	+++++	0.0066	+++++			Ave		0.0066						20.0			
PCB-1221 Peak 4	+++++	0.0248	+++++			Ave		0.0248						20.0			
PCB-1254 Peak 1	+++++	0.0634	+++++			Ave		0.0634						20.0			
PCB-1254 Peak 2	+++++	0.0786	+++++			Ave		0.0786						20.0			
PCB-1254 Peak 3	+++++	0.0810	+++++			Ave		0.0810						20.0			
PCB-1254 Peak 4	+++++	0.0286	+++++			Ave		0.0286						20.0			
PCB-1254 Peak 5	+++++	0.0495	+++++			Ave		0.0495						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 17:58 Calibration End Date: 10/28/2017 18:30 Calibration ID: 31827

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/20	6_02-284.D
Level 2	IC 480-384409/19	6_02-283.D
Level 3	IC 480-384409/18	6_02-282.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Ave	+++++	76467	+++++			+++++	0.500	+++++		
PCB-1221 Peak 2	BNB	Ave	+++++	141106	+++++			+++++	0.500	+++++		
PCB-1221 Peak 3	BNB	Ave	+++++	90992	+++++			+++++	0.500	+++++		
PCB-1221 Peak 4	BNB	Ave	+++++	342917	+++++			+++++	0.500	+++++		
PCB-1254 Peak 1	BNB	Ave	+++++	876845	+++++			+++++	0.500	+++++		
PCB-1254 Peak 2	BNB	Ave	+++++	1086840	+++++			+++++	0.500	+++++		
PCB-1254 Peak 3	BNB	Ave	+++++	1118715	+++++			+++++	0.500	+++++		
PCB-1254 Peak 4	BNB	Ave	+++++	395534	+++++			+++++	0.500	+++++		
PCB-1254 Peak 5	BNB	Ave	+++++	683451	+++++			+++++	0.500	+++++		

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-282.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Oct-2017 17:58:32 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:42 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:58:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	13622103	0.5000	0.5000	
2	1.193	1.193	0.000	19068232	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							
1	1.709	1.709	0.000	258407	2.00	1.71	
1	2.350	2.352	-0.002	526681	2.00	1.89	
1	2.433	2.433	0.000	322192	2.00	1.80	
1	2.483	2.483	0.000	1229411	2.00	1.82	
		Average of Peak Amounts =				1.81	
2	1.575	1.575	0.000	479397	2.00	1.59	
2	2.163	2.164	-0.001	867840	2.00	1.78	
2	2.278	2.278	0.000	526081	2.00	1.72	
2	2.332	2.332	0.000	1590167	2.00	1.73	
		Average of Peak Amounts =				1.70	
						RPD = 5.76	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	4.190	4.191	-0.001	3368808	2.00	1.95	a
1	4.498	4.498	0.000	4275720	2.00	2.00	
1	4.700	4.700	0.000	4426378	2.00	2.01	
1	4.877	4.878	-0.001	1511185	2.00	1.94	
1	4.926	4.927	-0.001	2716662	2.00	2.02	
		Average of Peak Amounts =				1.98	
2	3.943	3.942	0.000	3574468	2.00	1.91	
2	4.254	4.254	0.000	2480403	2.00	1.93	
2	4.343	4.342	0.000	5307888	2.00	1.94	
2	4.473	4.473	0.000	5399097	2.00	1.94	
2	4.918	4.919	-0.001	4464185	2.00	1.93	
		Average of Peak Amounts =				1.93	
						RPD = 2.68	

Reagents:

21-54w/IS@2.0_00008 Amount Added: 1.00 Units: mL

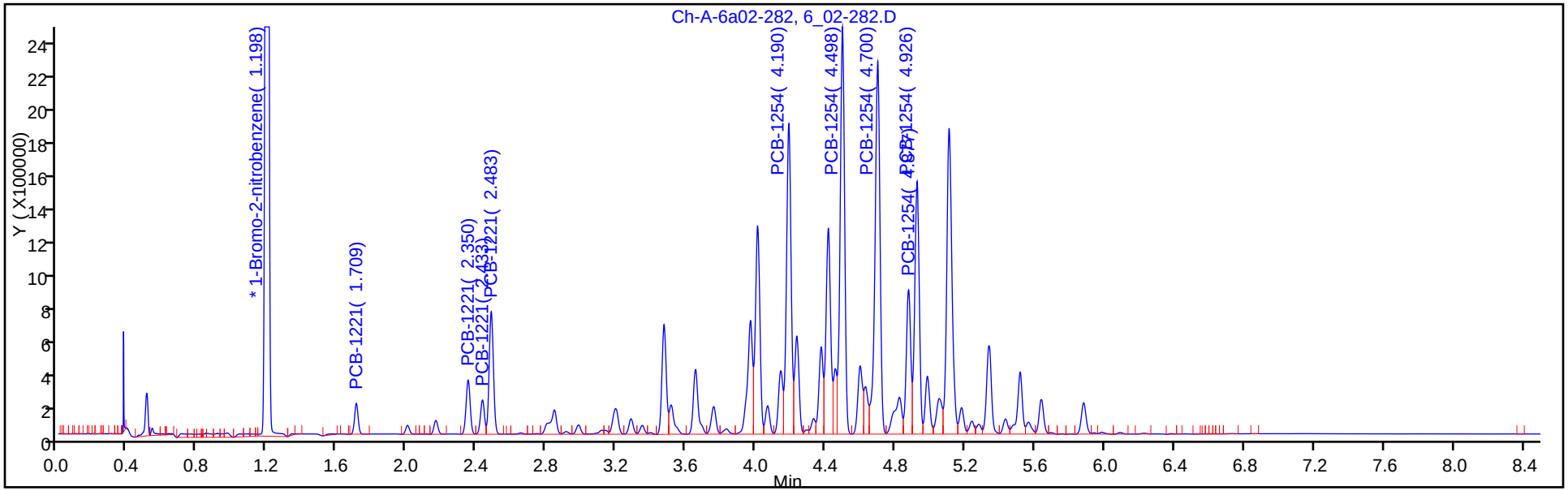
Report Date: 30-Oct-2017 12:27:43 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

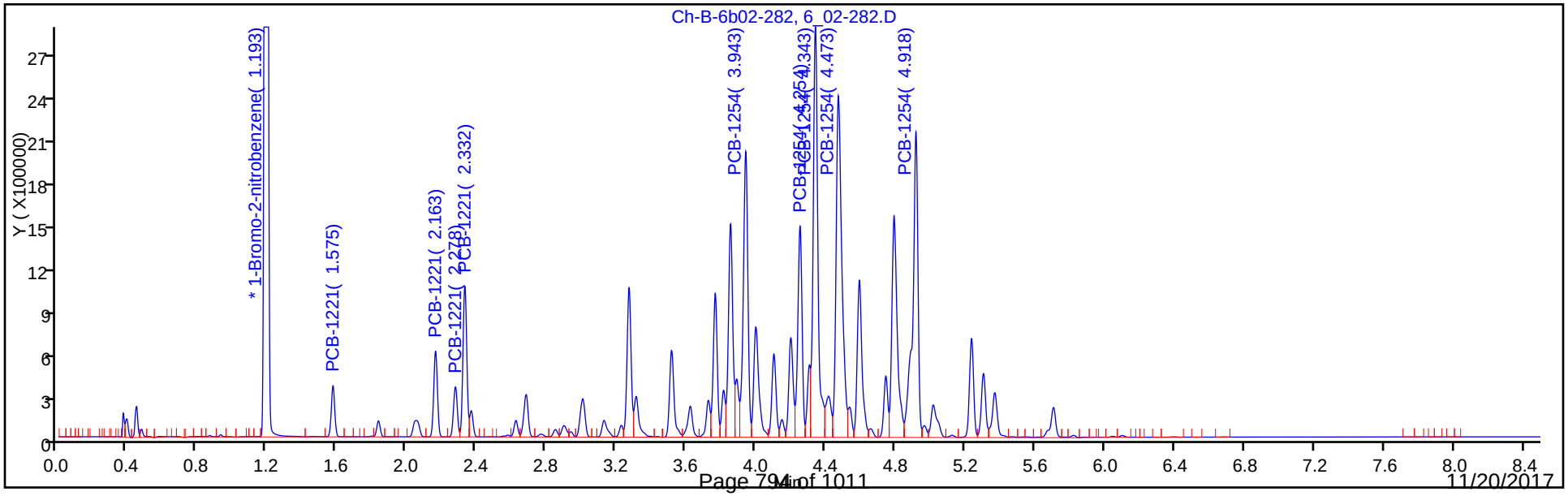
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-282.D

Injection Date:	28-Oct-2017 17:58:32	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-283.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Oct-2017 18:14:28 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:46 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:56:34

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	13819472	0.5000	0.5000	
2	1.193	1.193	0.000	19821557	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							M
1	1.709	1.709	0.000	76467	0.5000	0.5000	M
1	2.352	2.352	0.000	141106	0.5000	0.5000	M
1	2.433	2.433	0.000	90992	0.5000	0.5000	M
1	2.483	2.483	0.000	342917	0.5000	0.5000	M
		Average of Peak Amounts =				0.5000	
2	1.575	1.575	0.000	156415	0.5000	0.5000	
2	2.164	2.164	0.000	252949	0.5000	0.5000	
2	2.278	2.278	0.000	159394	0.5000	0.5000	
2	2.332	2.332	0.000	478848	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	4.191	4.191	0.000	876845	0.5000	0.5000	a
1	4.498	4.498	0.000	1086840	0.5000	0.5000	
1	4.700	4.700	0.000	1118715	0.5000	0.5000	
1	4.878	4.878	0.000	395534	0.5000	0.5000	
1	4.927	4.927	0.000	683451	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.942	3.942	0.000	971111	0.5000	0.5000	
2	4.254	4.254	0.000	669569	0.5000	0.5000	
2	4.342	4.342	0.000	1424892	0.5000	0.5000	
2	4.473	4.473	0.000	1444893	0.5000	0.5000	
2	4.919	4.919	0.000	1204369	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00015 Amount Added: 1.00 Units: mL

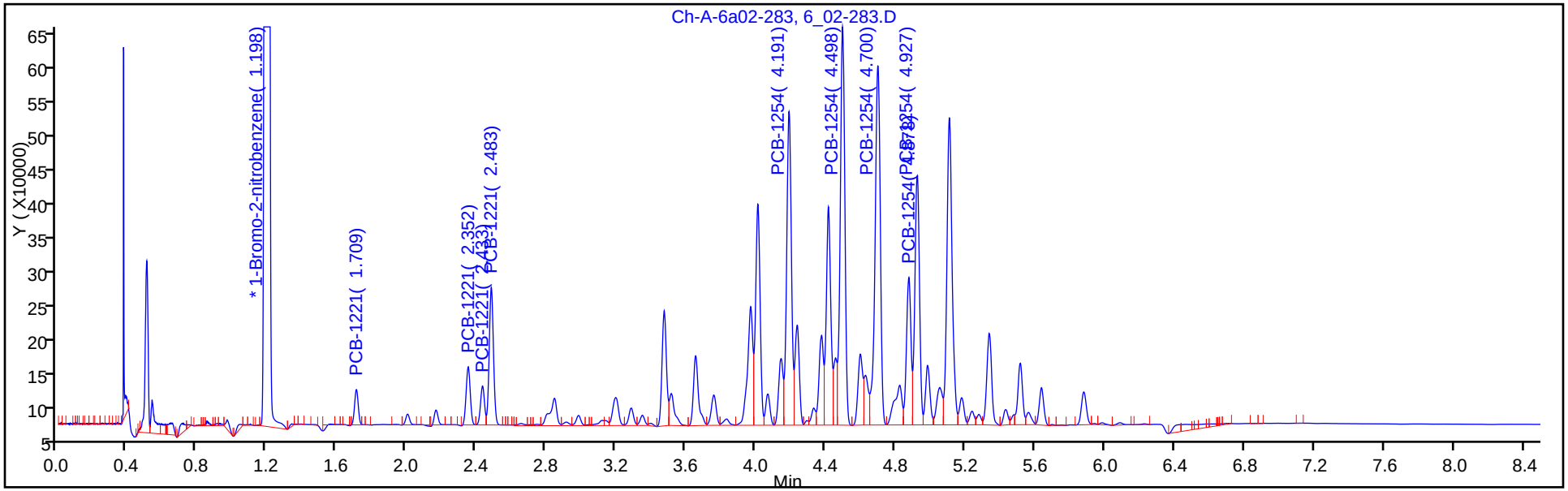
Report Date: 30-Oct-2017 12:27:47 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

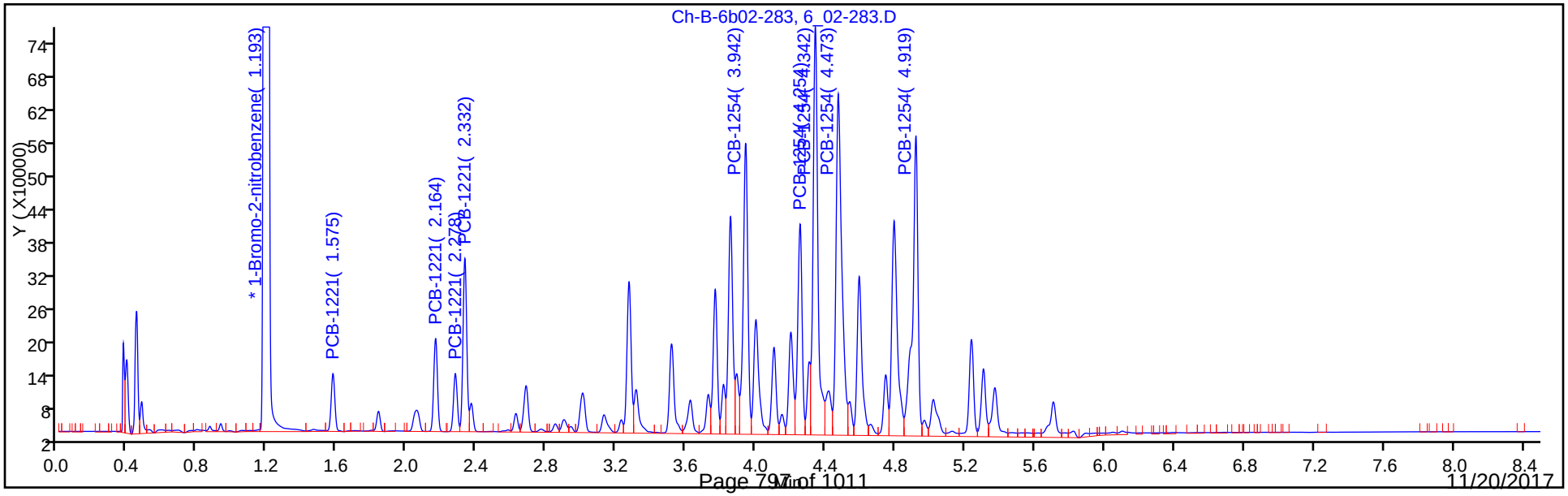
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-283.D

Injection Date:	28-Oct-2017 18:14:28	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



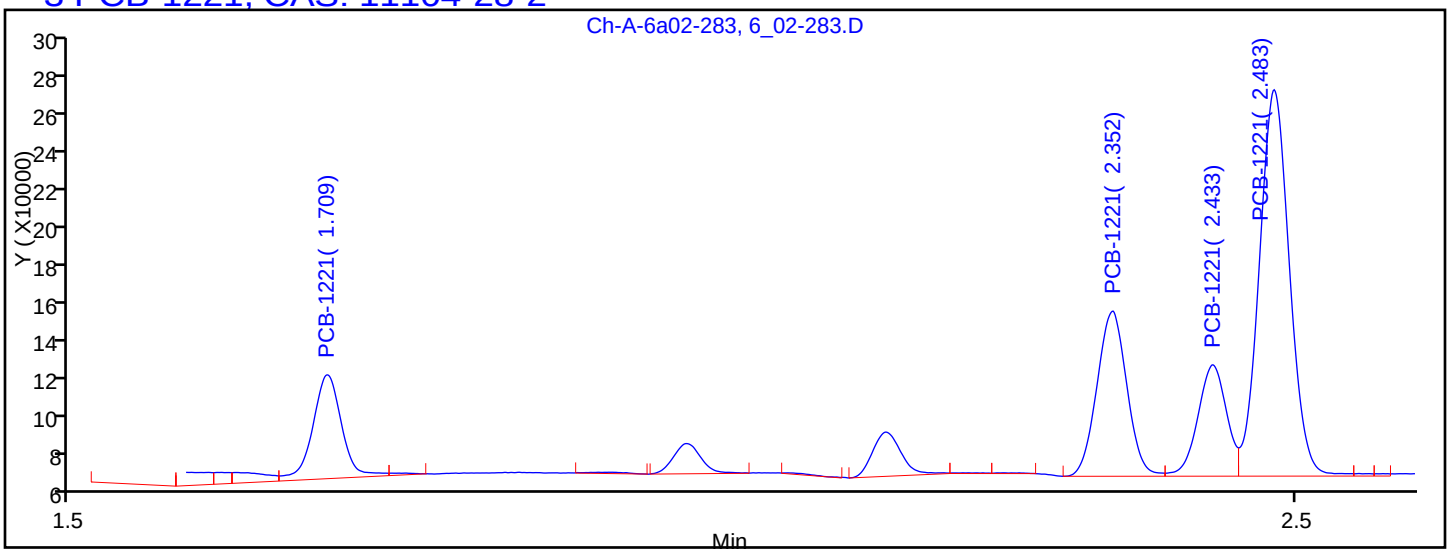
Report Date: 30-Oct-2017 12:27:47 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-283.D

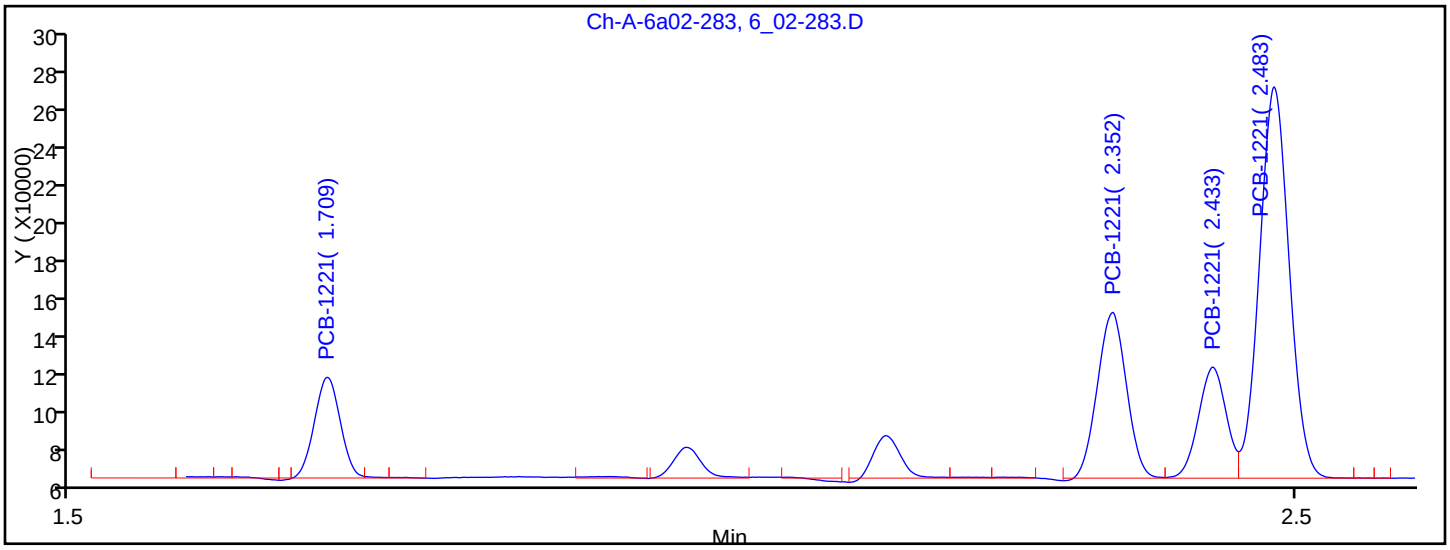
Injection Date:	28-Oct-2017 18:14:28	Instrument ID:	HP6890-6		
Lims ID:	IC 2				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.709	Response = 89730
2.352	Response = 147551
2.433	Response = 95465
2.483	Response = 349655



Manual Integration Results

1.709	Response = 76467	M
2.352	Response = 141106	M
2.433	Response = 90992	M
2.483	Response = 342917	M

Reviewer: owenj, 30-Oct-2017 11:01:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-284.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Oct-2017 18:30:27 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:51 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 11:00:41

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	13730192	0.5000	0.5000	
2	1.193	1.193	0.000	19447306	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							M
1	1.710	1.710	0.000	2698	0.0200	0.0178	M
1	2.353	2.353	0.000	3812	0.0200	0.0136	M
1	2.435	2.435	0.000	5396	0.0200	0.0298	M
1	2.483	2.483	0.000	18811	0.0200	0.0276	M
		Average of Peak Amounts =				0.0222	
2	1.576	1.576	0.000	13133	0.0200	0.0428	
2	2.165	2.165	0.000	14110	0.0200	0.0284	
2	2.278	2.278	0.000	8622	0.0200	0.0276	M
2	2.333	2.333	0.000	20580	0.0200	0.0219	
		Average of Peak Amounts =				0.0302	
						RPD = 30.44	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							M
1	4.191	4.191	0.000	35601	0.0200	0.0204	M
1	4.499	4.499	0.000	50408	0.0200	0.0233	M
1	4.702	4.702	0.000	55009	0.0200	0.0247	M
1	4.877	4.877	0.000	21027	0.0200	0.0268	M
1	4.925	4.925	0.000	32304	0.0200	0.0238	M
		Average of Peak Amounts =				0.0238	
2	3.944	3.944	0.000	44971	0.0200	0.0236	
2	4.256	4.256	0.000	29721	0.0200	0.0226	
2	4.343	4.343	0.000	60791	0.0200	0.0217	
2	4.476	4.476	0.000	64940	0.0200	0.0229	
2	4.920	4.920	0.000	55845	0.0200	0.0236	
		Average of Peak Amounts =				0.0229	
						RPD = 3.91	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00007 Amount Added: 1.00 Units: mL

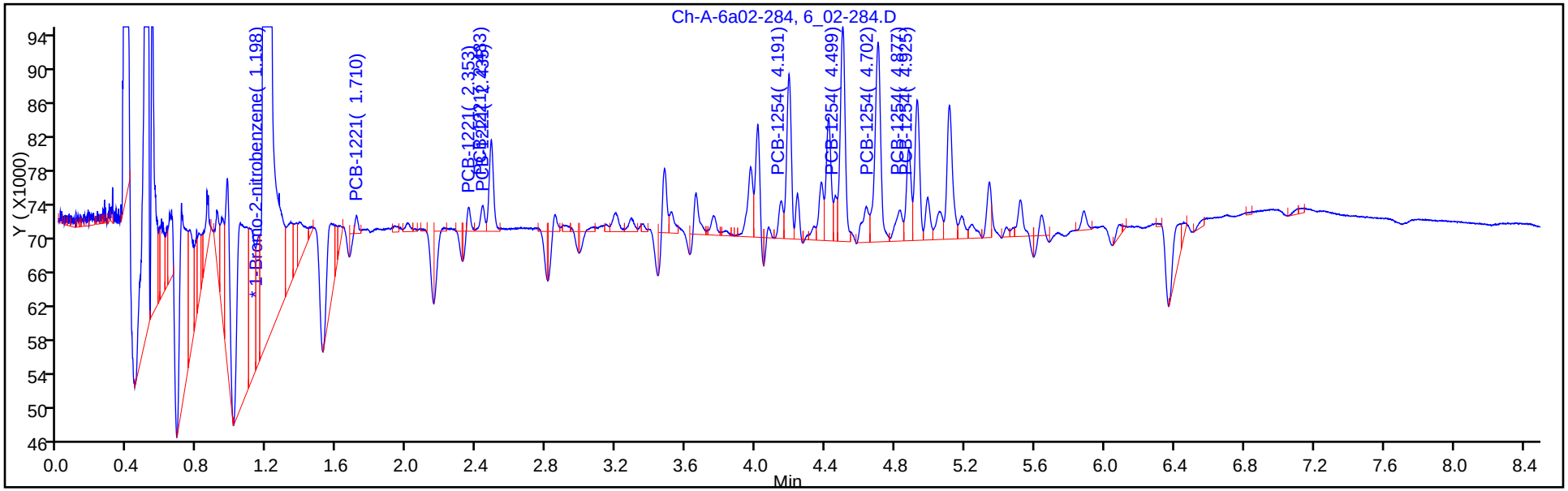
Report Date: 30-Oct-2017 12:27:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

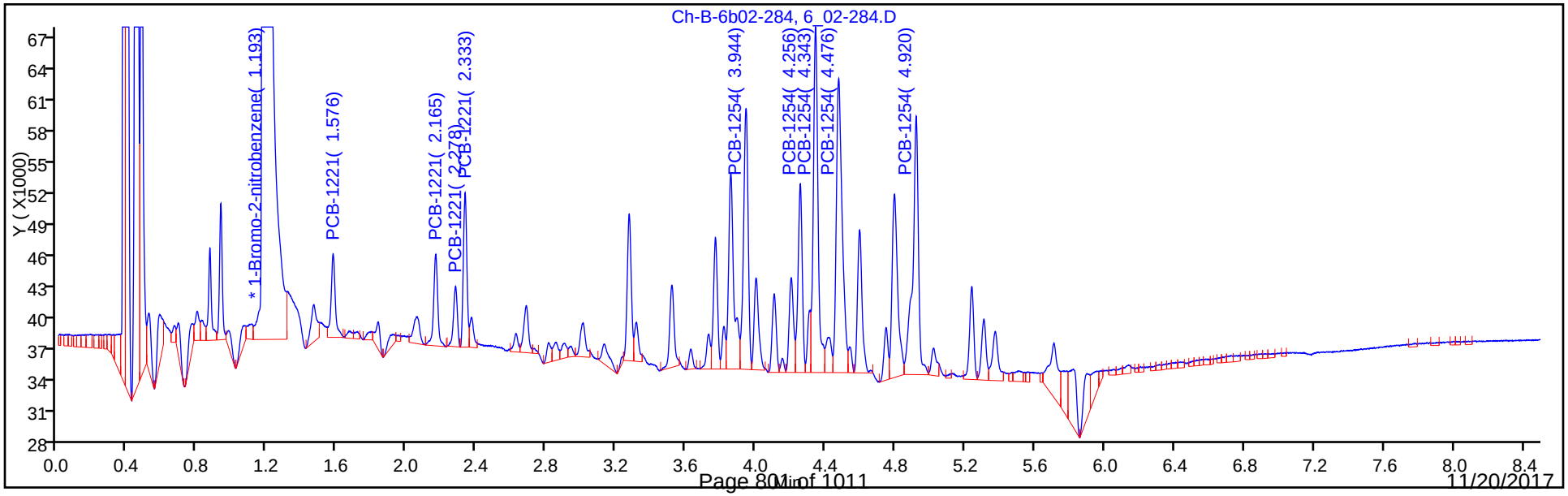
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-284.D

Injection Date:	28-Oct-2017 18:30:27	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Oct-2017 12:27:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-284.D

Injection Date: 28-Oct-2017 18:30:27 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

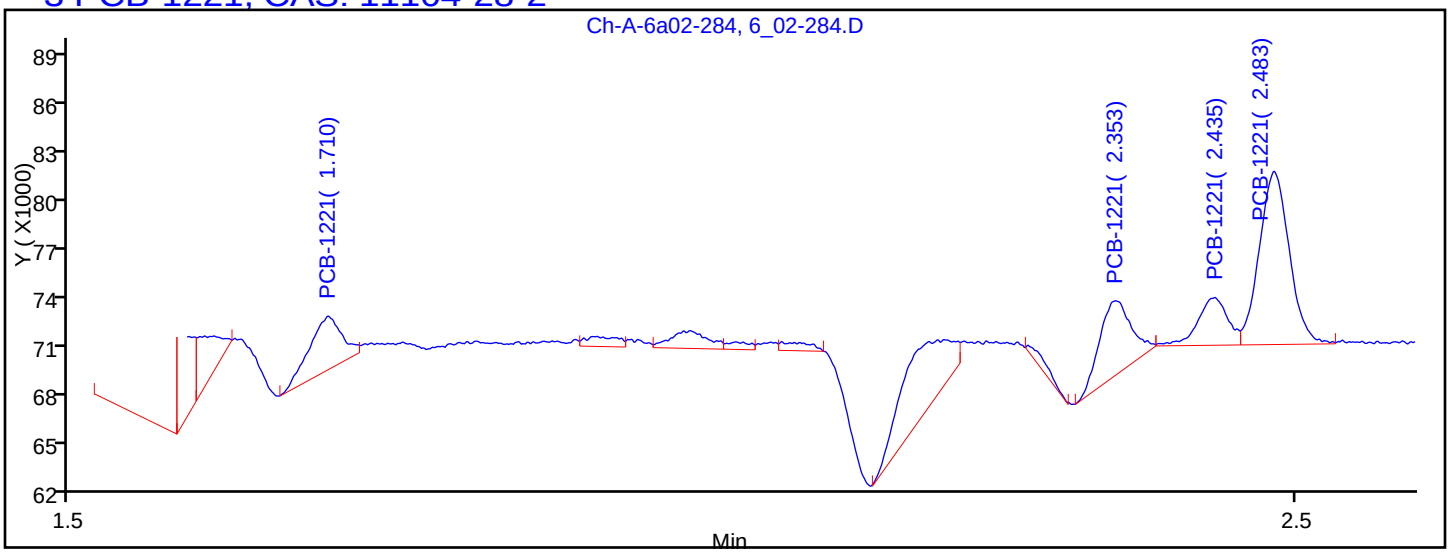
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

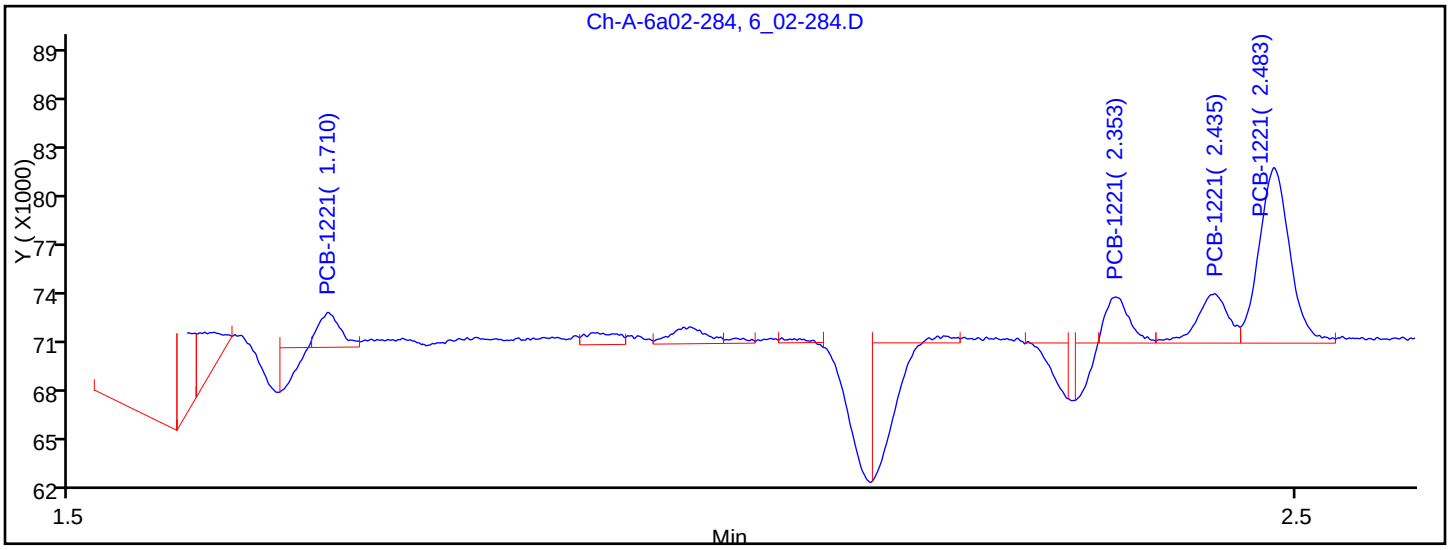
Column: Detector Ch-A-7A136

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.710	Response = 6185
2.353	Response = 8261
2.435	Response = 5041
2.483	Response = 18092



Manual Integration Results

1.710	Response = 2698	M
2.353	Response = 3812	M
2.435	Response = 5396	M
2.483	Response = 18811	M

Reviewer: owenj, 30-Oct-2017 10:59:04

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:27:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-284.D

Injection Date: 28-Oct-2017 18:30:27 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

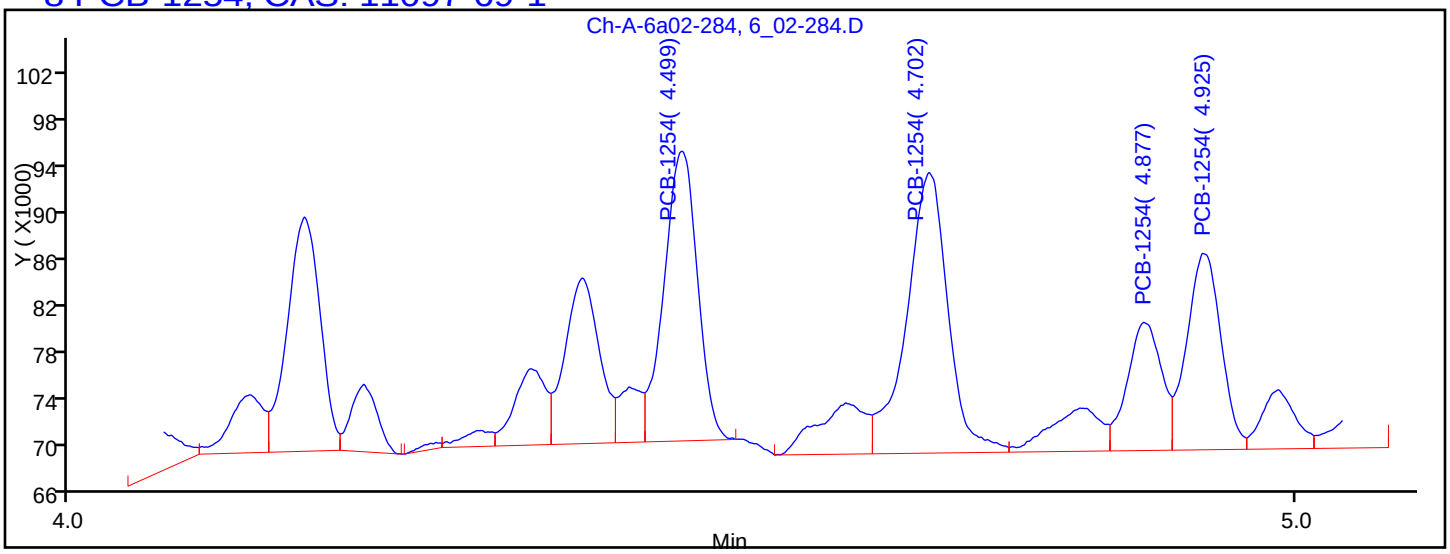
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

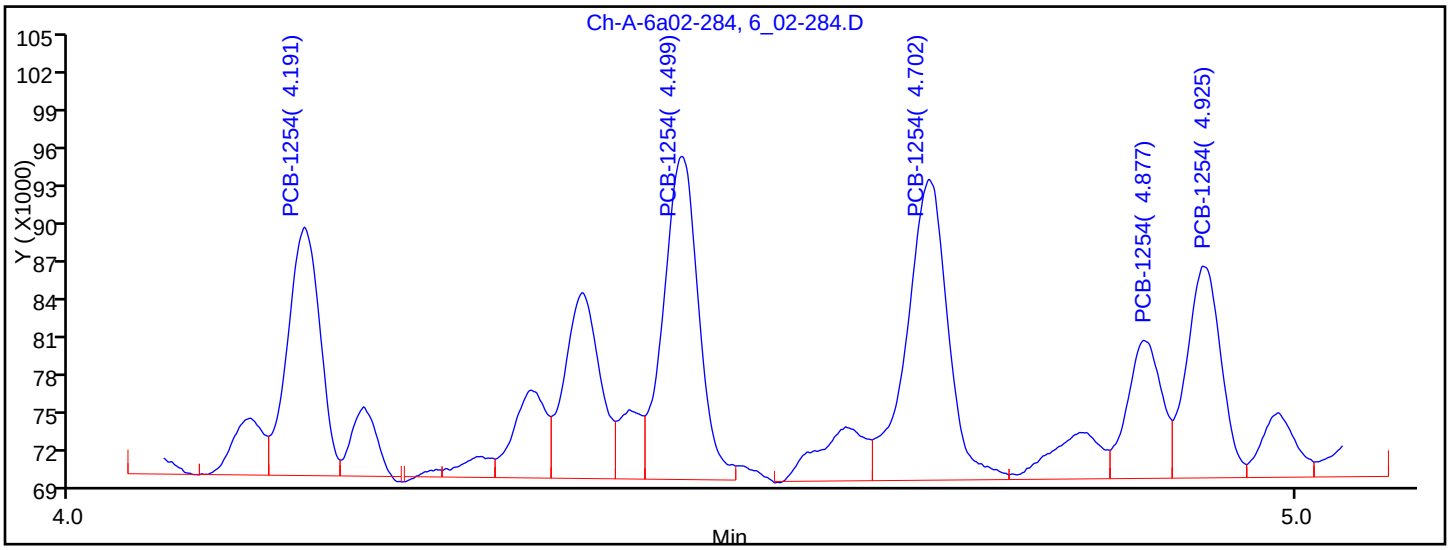
Column: Detector Ch-A-7A136

8 PCB-1254, CAS: 11097-69-1



Processing Integration Results

4.418	Response = 27044
4.499	Response = 46200
4.702	Response = 55314
4.877	Response = 20943
4.925	Response = 32111



Manual Integration Results

4.191	Response = 35601	M
4.499	Response = 50408	M
4.702	Response = 55009	M
4.877	Response = 21027	M
4.925	Response = 32304	M

Reviewer: owenj, 30-Oct-2017 10:59:07

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 17:58 Calibration End Date: 10/28/2017 18:30 Calibration ID: 31828

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/20	6_02-284.D
Level 2	IC 480-384409/19	6_02-283.D
Level 3	IC 480-384409/18	6_02-282.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	+++++	0.0079	+++++			Ave		0.0079						20.0			
PCB-1221 Peak 2	+++++	0.0128	+++++			Ave		0.0128						20.0			
PCB-1221 Peak 3	+++++	0.0080	+++++			Ave		0.0080						20.0			
PCB-1221 Peak 4	+++++	0.0242	+++++			Ave		0.0242						20.0			
PCB-1254 Peak 1	+++++	0.0490	+++++			Ave		0.0490						20.0			
PCB-1254 Peak 2	+++++	0.0338	+++++			Ave		0.0338						20.0			
PCB-1254 Peak 3	+++++	0.0719	+++++			Ave		0.0719						20.0			
PCB-1254 Peak 4	+++++	0.0729	+++++			Ave		0.0729						20.0			
PCB-1254 Peak 5	+++++	0.0608	+++++			Ave		0.0608						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 17:58 Calibration End Date: 10/28/2017 18:30 Calibration ID: 31828

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/20	6_02-284.D
Level 2	IC 480-384409/19	6_02-283.D
Level 3	IC 480-384409/18	6_02-282.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Ave	+++++	156415	+++++			+++++	0.500	+++++		
PCB-1221 Peak 2	BNB	Ave	+++++	252949	+++++			+++++	0.500	+++++		
PCB-1221 Peak 3	BNB	Ave	+++++	159394	+++++			+++++	0.500	+++++		
PCB-1221 Peak 4	BNB	Ave	+++++	478848	+++++			+++++	0.500	+++++		
PCB-1254 Peak 1	BNB	Ave	+++++	971111	+++++			+++++	0.500	+++++		
PCB-1254 Peak 2	BNB	Ave	+++++	669569	+++++			+++++	0.500	+++++		
PCB-1254 Peak 3	BNB	Ave	+++++	1424892	+++++			+++++	0.500	+++++		
PCB-1254 Peak 4	BNB	Ave	+++++	1444893	+++++			+++++	0.500	+++++		
PCB-1254 Peak 5	BNB	Ave	+++++	1204369	+++++			+++++	0.500	+++++		

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-282.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Oct-2017 17:58:32 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:42 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:58:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	13622103	0.5000	0.5000	
2	1.193	1.193	0.000	19068232	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							
1	1.709	1.709	0.000	258407	2.00	1.71	
1	2.350	2.352	-0.002	526681	2.00	1.89	
1	2.433	2.433	0.000	322192	2.00	1.80	
1	2.483	2.483	0.000	1229411	2.00	1.82	
		Average of Peak Amounts =				1.81	
2	1.575	1.575	0.000	479397	2.00	1.59	
2	2.163	2.164	-0.001	867840	2.00	1.78	
2	2.278	2.278	0.000	526081	2.00	1.72	
2	2.332	2.332	0.000	1590167	2.00	1.73	
		Average of Peak Amounts =				1.70	
						RPD = 5.76	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	4.190	4.191	-0.001	3368808	2.00	1.95	a
1	4.498	4.498	0.000	4275720	2.00	2.00	
1	4.700	4.700	0.000	4426378	2.00	2.01	
1	4.877	4.878	-0.001	1511185	2.00	1.94	
1	4.926	4.927	-0.001	2716662	2.00	2.02	
		Average of Peak Amounts =				1.98	
2	3.943	3.942	0.000	3574468	2.00	1.91	
2	4.254	4.254	0.000	2480403	2.00	1.93	
2	4.343	4.342	0.000	5307888	2.00	1.94	
2	4.473	4.473	0.000	5399097	2.00	1.94	
2	4.918	4.919	-0.001	4464185	2.00	1.93	
		Average of Peak Amounts =				1.93	
						RPD = 2.68	

Reagents:

21-54w/IS@2.0_00008 Amount Added: 1.00 Units: mL

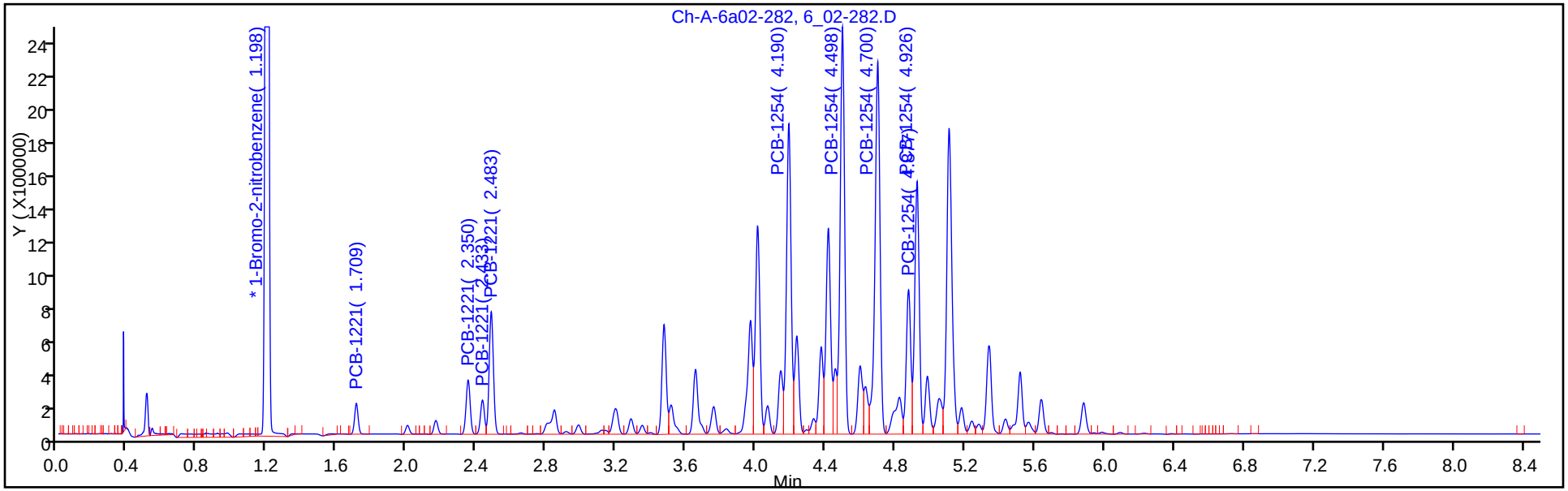
Report Date: 30-Oct-2017 12:27:43 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

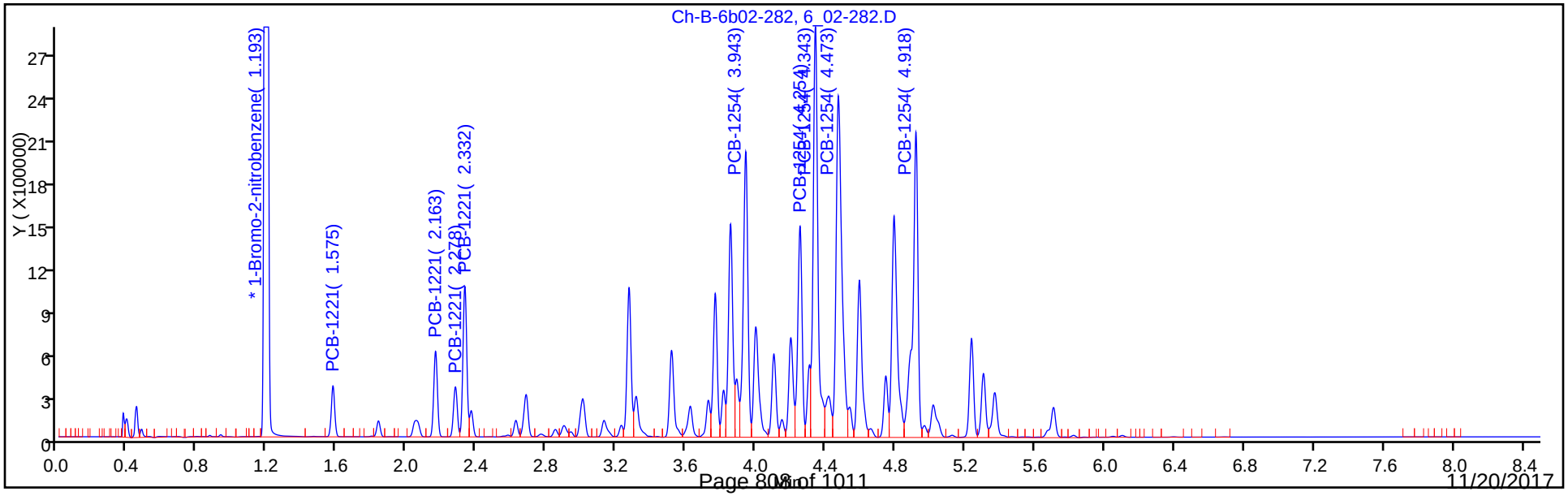
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-282.D

Injection Date:	28-Oct-2017 17:58:32	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-283.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Oct-2017 18:14:28 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:46 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 10:56:34

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	13819472	0.5000	0.5000	
2	1.193	1.193	0.000	19821557	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							M
1	1.709	1.709	0.000	76467	0.5000	0.5000	M
1	2.352	2.352	0.000	141106	0.5000	0.5000	M
1	2.433	2.433	0.000	90992	0.5000	0.5000	M
1	2.483	2.483	0.000	342917	0.5000	0.5000	M
		Average of Peak Amounts =				0.5000	
2	1.575	1.575	0.000	156415	0.5000	0.5000	
2	2.164	2.164	0.000	252949	0.5000	0.5000	
2	2.278	2.278	0.000	159394	0.5000	0.5000	
2	2.332	2.332	0.000	478848	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	4.191	4.191	0.000	876845	0.5000	0.5000	a
1	4.498	4.498	0.000	1086840	0.5000	0.5000	
1	4.700	4.700	0.000	1118715	0.5000	0.5000	
1	4.878	4.878	0.000	395534	0.5000	0.5000	
1	4.927	4.927	0.000	683451	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.942	3.942	0.000	971111	0.5000	0.5000	
2	4.254	4.254	0.000	669569	0.5000	0.5000	
2	4.342	4.342	0.000	1424892	0.5000	0.5000	
2	4.473	4.473	0.000	1444893	0.5000	0.5000	
2	4.919	4.919	0.000	1204369	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00015 Amount Added: 1.00 Units: mL

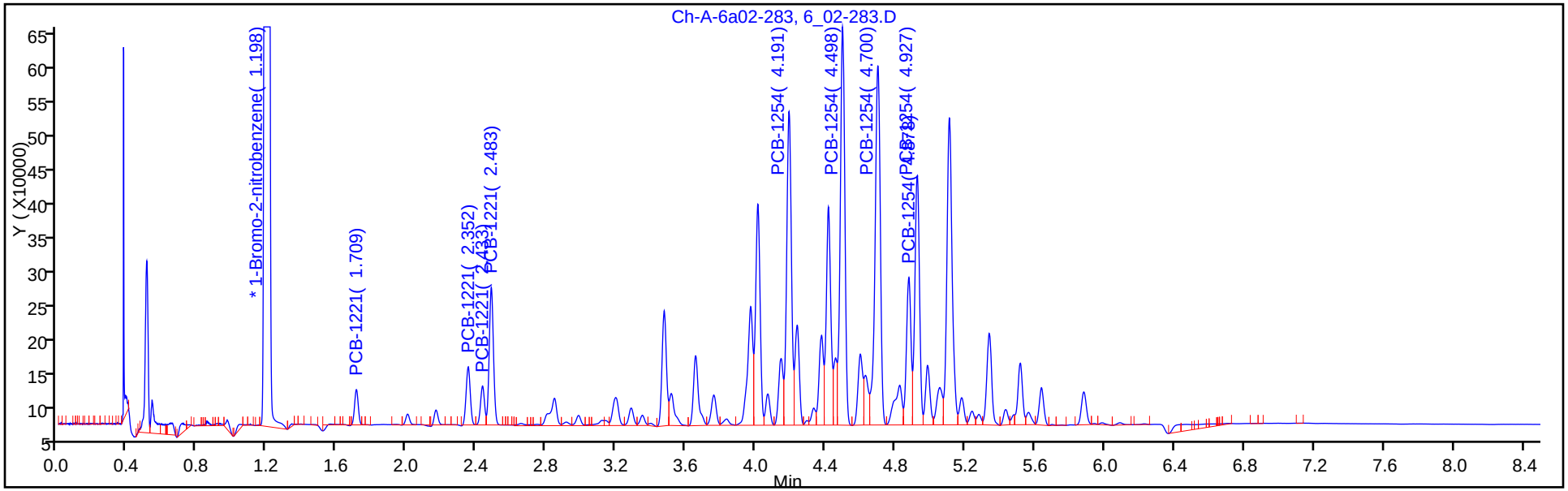
Report Date: 30-Oct-2017 12:27:47 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

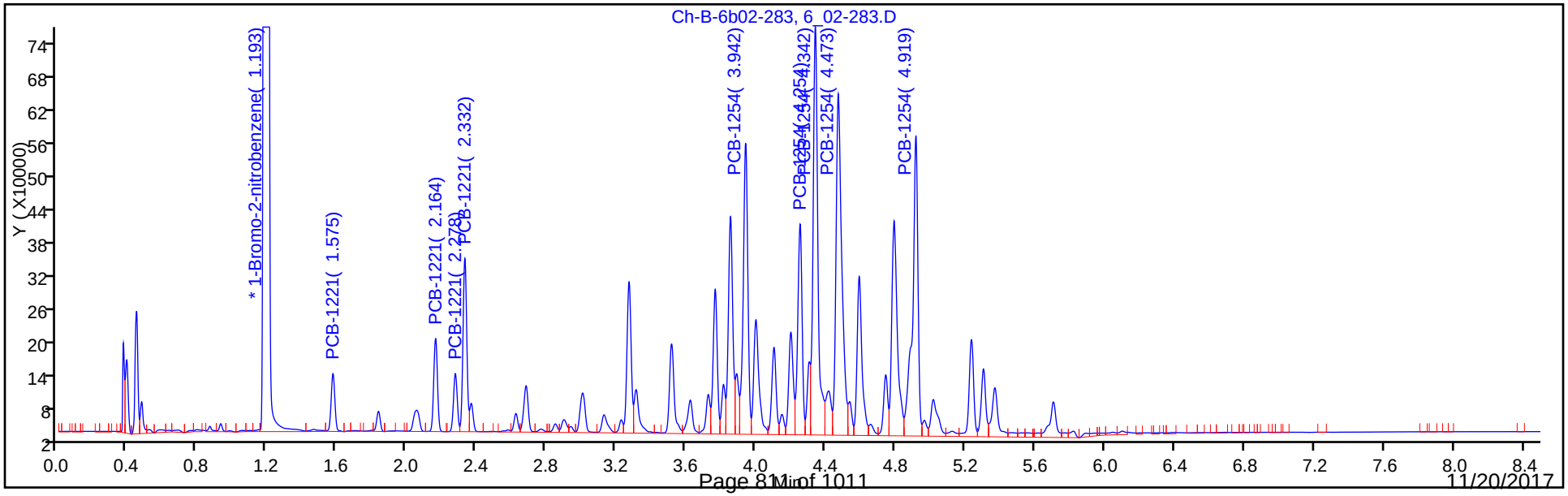
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-283.D

Injection Date:	28-Oct-2017 18:14:28	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-284.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Oct-2017 18:30:27 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:51 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 11:00:41

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.198	0.000	13730192	0.5000	0.5000	
2	1.193	1.193	0.000	19447306	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							M
1	1.710	1.710	0.000	2698	0.0200	0.0178	M
1	2.353	2.353	0.000	3812	0.0200	0.0136	M
1	2.435	2.435	0.000	5396	0.0200	0.0298	M
1	2.483	2.483	0.000	18811	0.0200	0.0276	M
		Average of Peak Amounts =				0.0222	
2	1.576	1.576	0.000	13133	0.0200	0.0428	
2	2.165	2.165	0.000	14110	0.0200	0.0284	
2	2.278	2.278	0.000	8622	0.0200	0.0276	M
2	2.333	2.333	0.000	20580	0.0200	0.0219	
		Average of Peak Amounts =				0.0302	
						RPD = 30.44	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							M
1	4.191	4.191	0.000	35601	0.0200	0.0204	M
1	4.499	4.499	0.000	50408	0.0200	0.0233	M
1	4.702	4.702	0.000	55009	0.0200	0.0247	M
1	4.877	4.877	0.000	21027	0.0200	0.0268	M
1	4.925	4.925	0.000	32304	0.0200	0.0238	M
		Average of Peak Amounts =				0.0238	
2	3.944	3.944	0.000	44971	0.0200	0.0236	
2	4.256	4.256	0.000	29721	0.0200	0.0226	
2	4.343	4.343	0.000	60791	0.0200	0.0217	
2	4.476	4.476	0.000	64940	0.0200	0.0229	
2	4.920	4.920	0.000	55845	0.0200	0.0236	
		Average of Peak Amounts =				0.0229	
						RPD = 3.91	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00007 Amount Added: 1.00 Units: mL

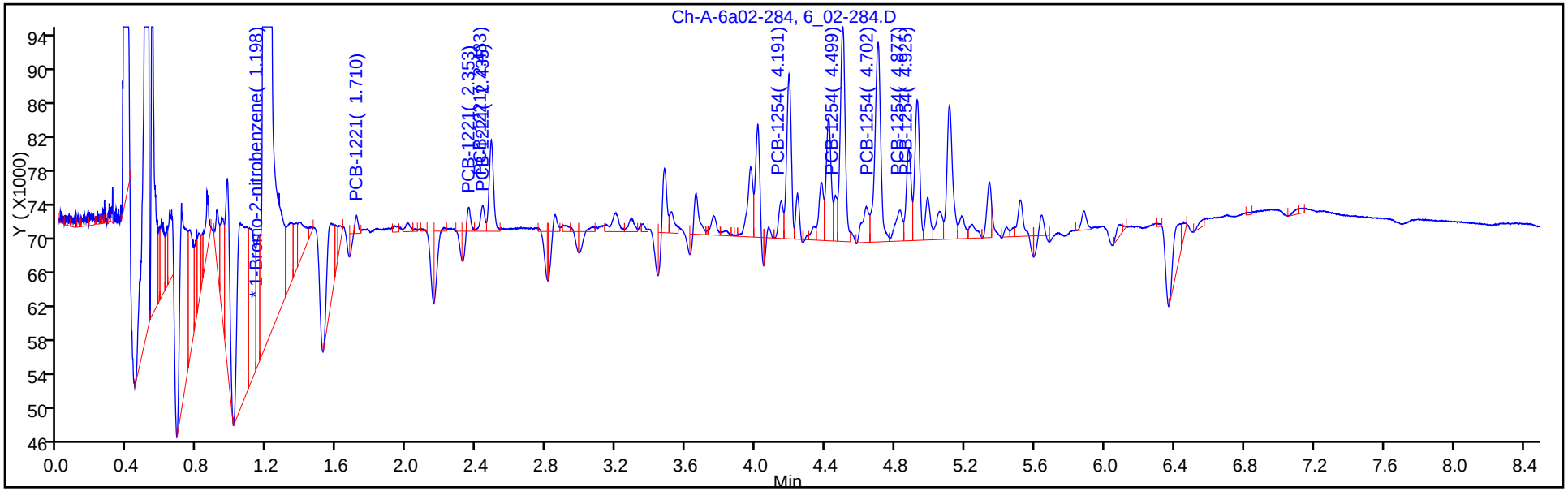
Report Date: 30-Oct-2017 12:27:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

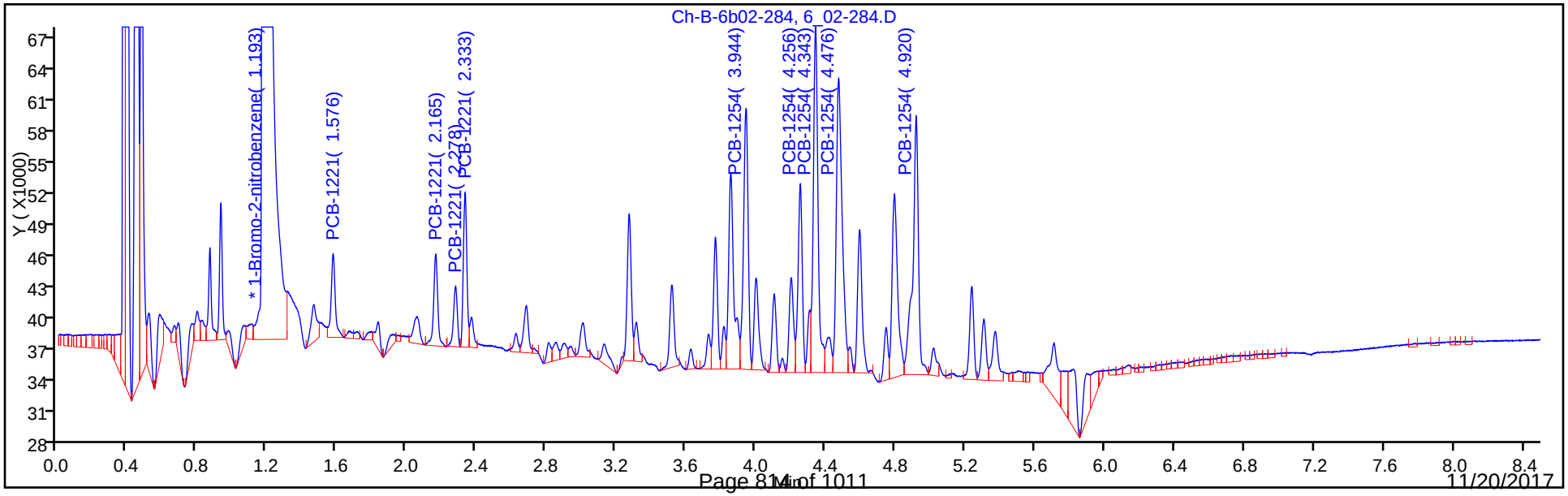
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-284.D

Injection Date:	28-Oct-2017 18:30:27	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Oct-2017 12:27:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-284.D

Injection Date: 28-Oct-2017 18:30:27 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

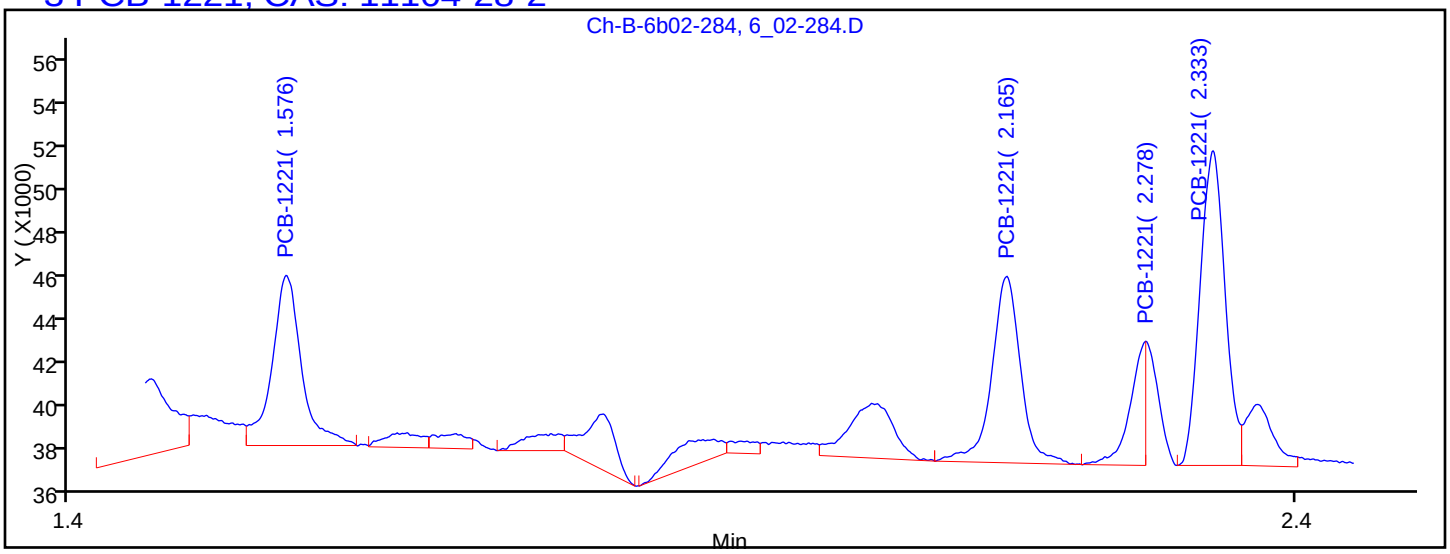
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

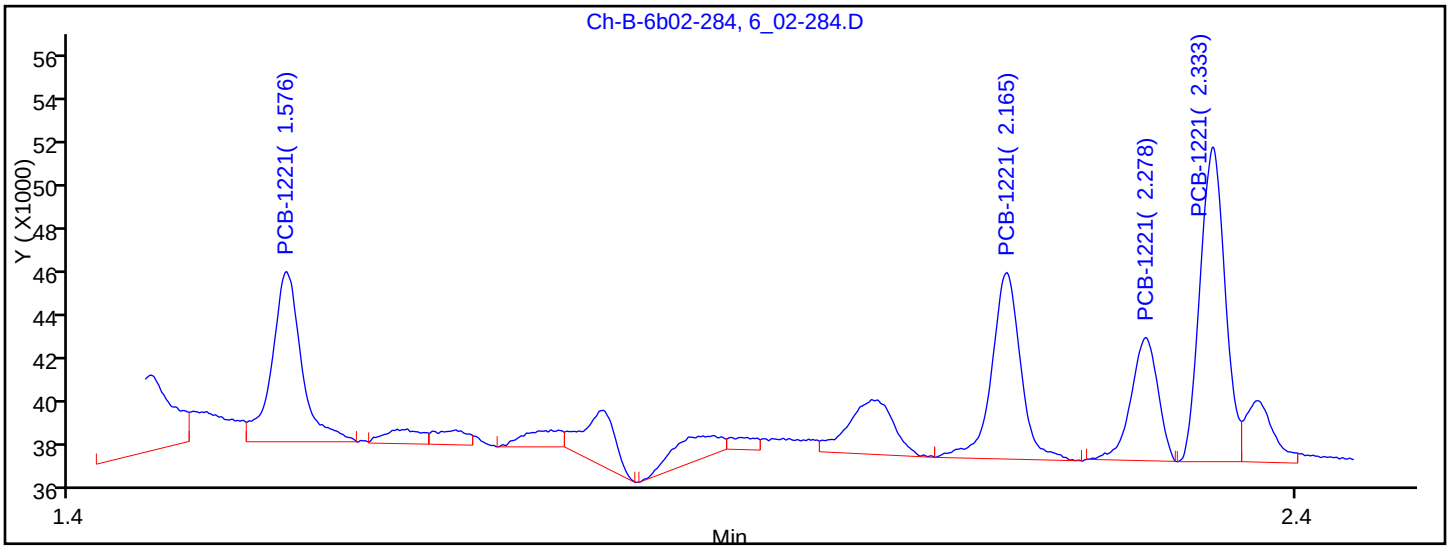
Column: Detector Ch-B-7b136

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.576	Response = 13133
2.165	Response = 14110
2.278	Response = 4841
2.333	Response = 20580



Manual Integration Results

1.576	Response = 13133	
2.165	Response = 14110	
2.278	Response = 8622	M
2.333	Response = 20580	

Reviewer: owenj, 30-Oct-2017 10:59:23

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 19:02 Calibration End Date: 10/28/2017 19:34 Calibration ID: 31833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/24	6_02-288.D
Level 2	IC 480-384409/23	6_02-287.D
Level 3	IC 480-384409/22	6_02-286.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	+++++	0.0189	+++++			Ave		0.0189						20.0			
PCB-1232 Peak 2	+++++	0.0105	+++++			Ave		0.0105						20.0			
PCB-1232 Peak 3	+++++	0.0389	+++++			Ave		0.0389						20.0			
PCB-1232 Peak 4	+++++	0.0149	+++++			Ave		0.0149						20.0			
PCB-1232 Peak 5	+++++	0.0101	+++++			Ave		0.0101						20.0			
PCB-1262 Peak 1	+++++	0.0683	+++++			Ave		0.0683						20.0			
PCB-1262 Peak 2	+++++	0.0528	+++++			Ave		0.0528						20.0			
PCB-1262 Peak 3	+++++	0.1259	+++++			Ave		0.1259						20.0			
PCB-1262 Peak 4	+++++	0.0391	+++++			Ave		0.0391						20.0			
PCB-1262 Peak 5	+++++	0.0463	+++++			Ave		0.0463						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 19:02 Calibration End Date: 10/28/2017 19:34 Calibration ID: 31833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/24	6_02-288.D
Level 2	IC 480-384409/23	6_02-287.D
Level 3	IC 480-384409/22	6_02-286.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Ave	+++++	252576	+++++			+++++	0.500	+++++		
PCB-1232 Peak 2	BNB	Ave	+++++	139857	+++++			+++++	0.500	+++++		
PCB-1232 Peak 3	BNB	Ave	+++++	520714	+++++			+++++	0.500	+++++		
PCB-1232 Peak 4	BNB	Ave	+++++	198678	+++++			+++++	0.500	+++++		
PCB-1232 Peak 5	BNB	Ave	+++++	135163	+++++			+++++	0.500	+++++		
PCB-1262 Peak 1	BNB	Ave	+++++	913507	+++++			+++++	0.500	+++++		
PCB-1262 Peak 2	BNB	Ave	+++++	705910	+++++			+++++	0.500	+++++		
PCB-1262 Peak 3	BNB	Ave	+++++	1683967	+++++			+++++	0.500	+++++		
PCB-1262 Peak 4	BNB	Ave	+++++	523458	+++++			+++++	0.500	+++++		
PCB-1262 Peak 5	BNB	Ave	+++++	619047	+++++			+++++	0.500	+++++		

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-286.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Oct-2017 19:02:35 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:05 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 11:39:42

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.197	1.198	-0.001	13442986	0.5000	0.5000	
2	1.193	1.193	-0.001	19321684	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.826	2.845	-0.019	993814	2.00	1.96	M
1	2.984	2.983	0.002	551484	2.00	1.96	M
1	3.198	3.198	0.000	2077997	2.00	1.98	M
1	3.286	3.285	0.001	768696	2.00	1.92	M
1	3.351	3.352	-0.001	527707	2.00	1.94	M
		Average of Peak Amounts =				1.95	
2	2.333	2.333	-0.001	1439520	2.00	1.79	
2	2.678	2.678	0.000	1502248	2.00	1.77	
2	3.009	3.009	0.000	3063163	2.00	1.92	
2	3.130	3.131	-0.001	1139905	2.00	1.87	
2	3.229	3.231	-0.002	744351	2.00	1.96	
		Average of Peak Amounts =				1.86	
						RPD = 4.91	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	5.242	5.242	0.000	3837638	2.00	2.09	M
1	5.433	5.435	-0.002	2963211	2.00	2.09	M
1	5.641	5.640	0.001	7433914	2.00	2.20	M
1	5.883	5.884	-0.001	2172128	2.00	2.06	M
1	5.943	5.943	-0.001	2605650	2.00	2.09	M
		Average of Peak Amounts =				2.11	
2	4.968	4.968	0.000	4072372	2.00	2.00	
2	5.234	5.233	0.002	3640954	2.00	2.02	
2	5.372	5.371	0.001	8156114	2.00	2.03	
2	5.670	5.671	-0.001	3240130	2.00	2.02	
2	5.710	5.711	-0.001	4859870	2.00	2.02	
		Average of Peak Amounts =				2.02	
						RPD = 4.19	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00007 Amount Added: 1.00 Units: mL

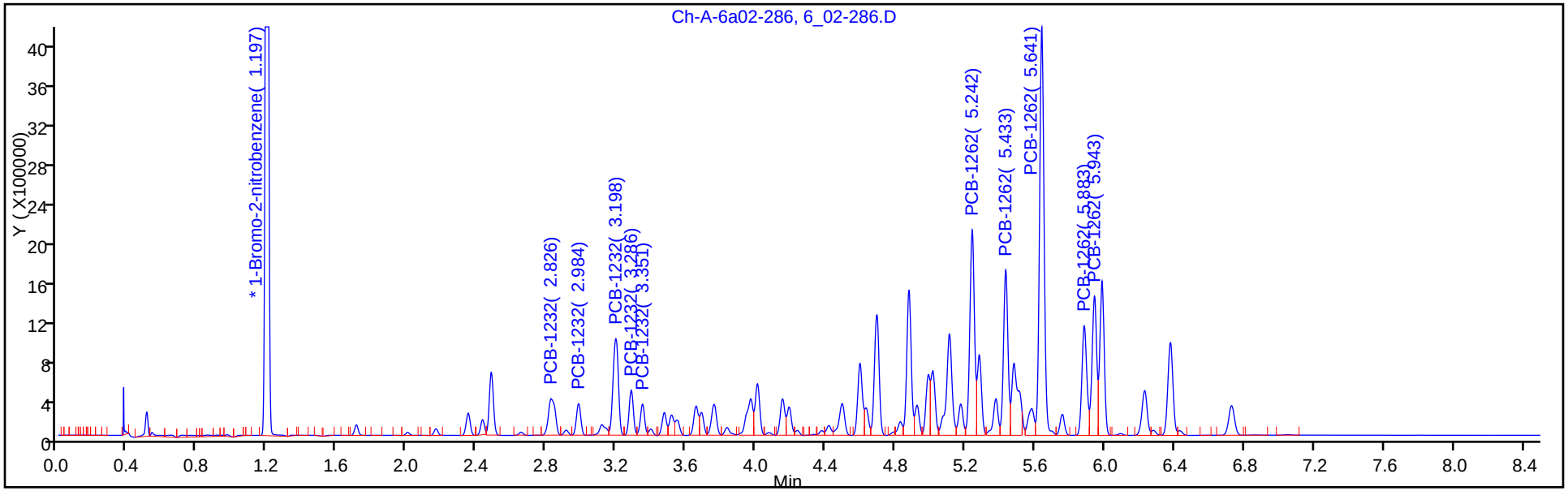
Report Date: 30-Oct-2017 12:28:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

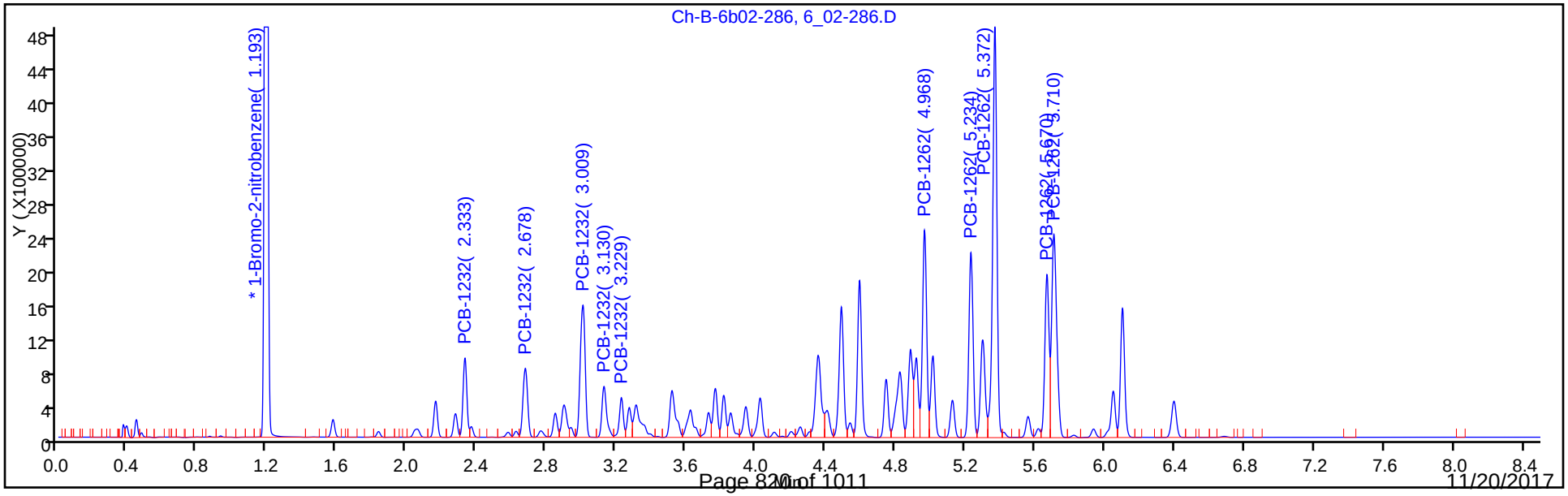
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-286.D

Injection Date:	28-Oct-2017 19:02:35	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



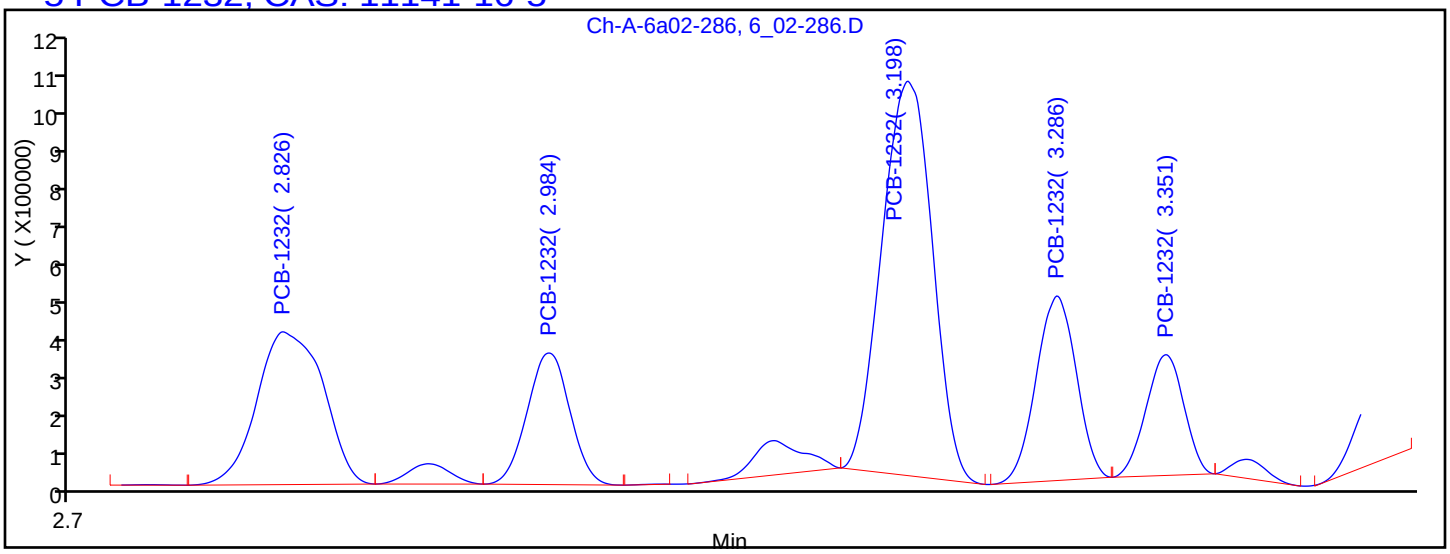
Report Date: 30-Oct-2017 12:28:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-286.D

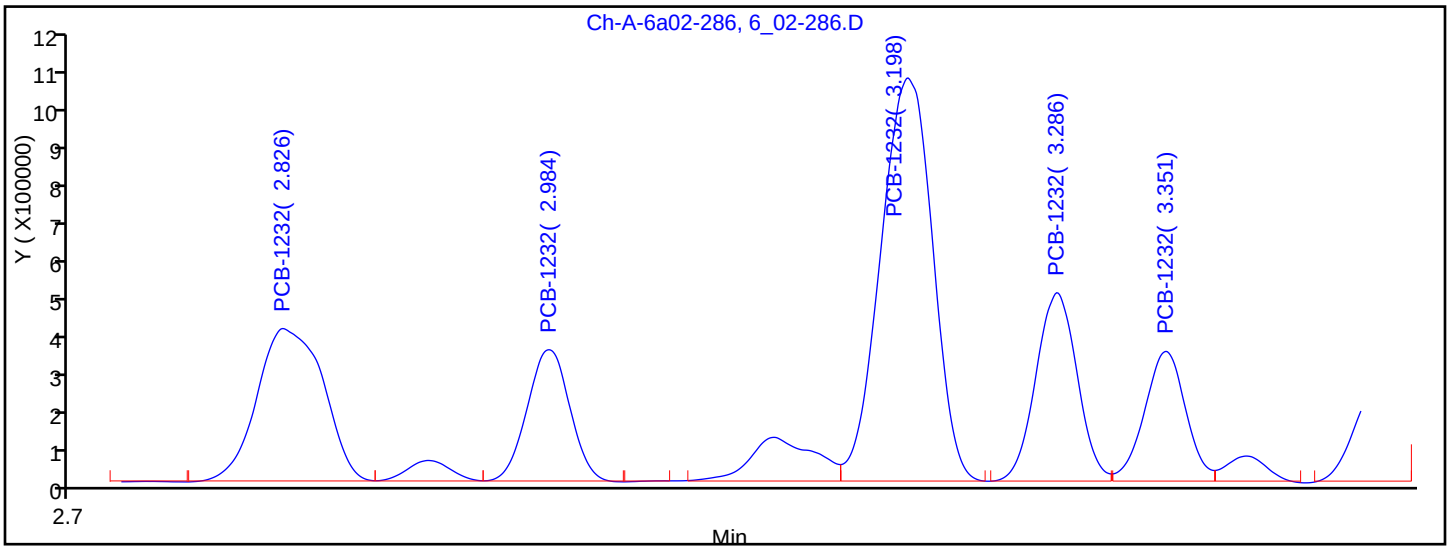
Injection Date:	28-Oct-2017 19:02:35	Instrument ID:	HP6890-6		
Lims ID:	IC 3				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.826	Response = 1000151
2.984	Response = 555641
3.198	Response = 1977765
3.286	Response = 733036
3.351	Response = 450411



Manual Integration Results

2.826	Response = 993814	M
2.984	Response = 551484	M
3.198	Response = 2077997	M
3.286	Response = 768696	M
3.351	Response = 527707	M

Reviewer: owenj, 30-Oct-2017 11:41:36

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:28:06 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-286.D

Injection Date: 28-Oct-2017 19:02:35 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

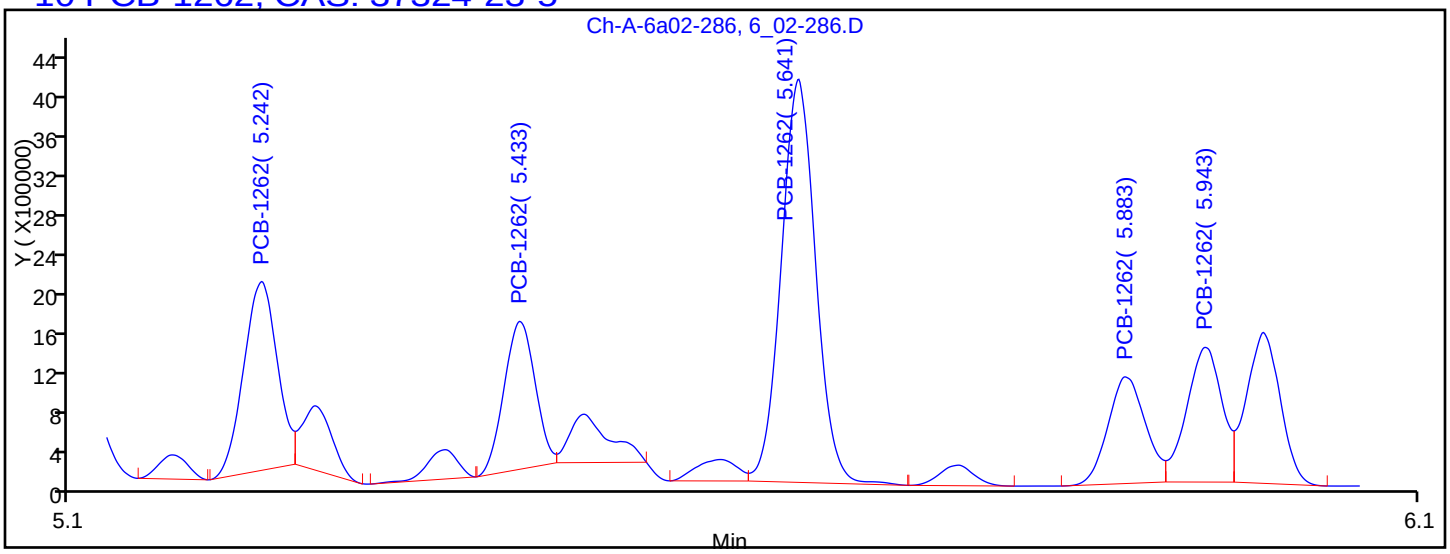
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

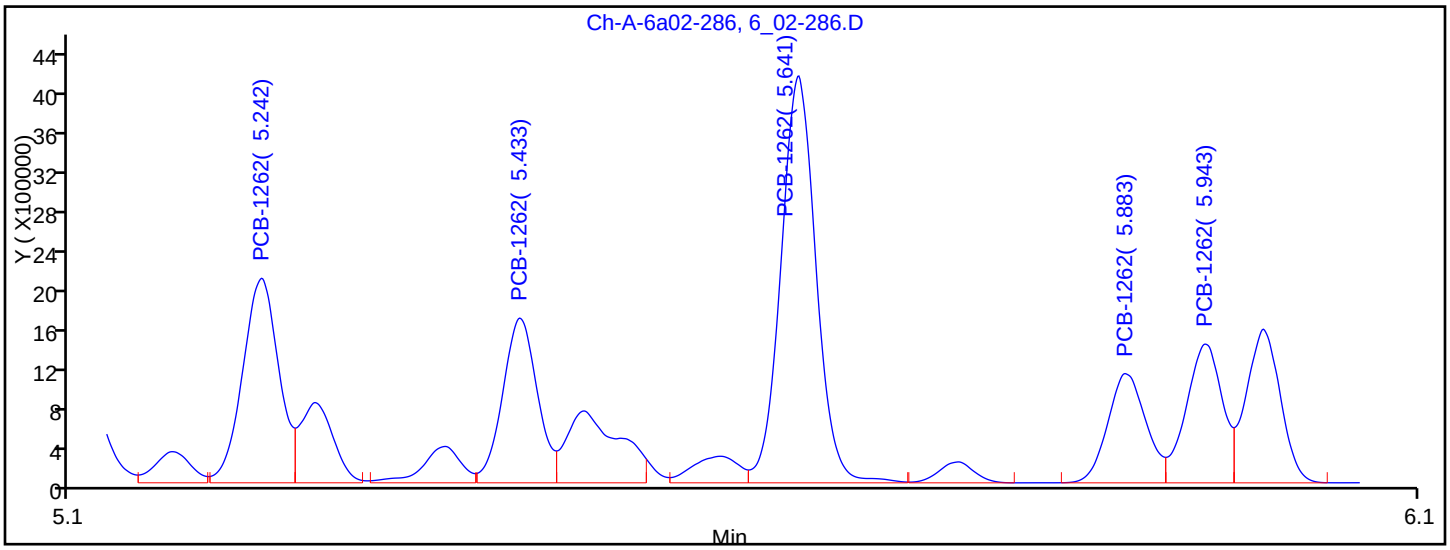
Column: Detector Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5



Processing Integration Results

5.242	Response = 3301946
5.433	Response = 2384492
5.641	Response = 7228483
5.883	Response = 2074719
5.943	Response = 2481538



Manual Integration Results

5.242	Response = 3837638	M
5.433	Response = 2963211	M
5.641	Response = 7433914	M
5.883	Response = 2172128	M
5.943	Response = 2605650	M

Reviewer: owenj, 30-Oct-2017 11:41:36

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-287.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Oct-2017 19:18:33 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:11 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 11:41:26

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.196	1.196	0.000	13370885	0.5000	0.5000	
2	1.193	1.193	0.000	19241849	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.827	2.827	0.000	252576	0.5000	0.5000	a
1	2.983	2.983	0.000	139857	0.5000	0.5000	a
1	3.197	3.197	0.000	520714	0.5000	0.5000	M
1	3.285	3.285	0.000	198678	0.5000	0.5000	M
1	3.350	3.350	0.000	135163	0.5000	0.5000	M
		Average of Peak Amounts =				0.5000	
2	2.333	2.333	0.000	400987	0.5000	0.5000	a
2	2.679	2.679	0.000	423658	0.5000	0.5000	a
2	3.008	3.008	0.000	793032	0.5000	0.5000	a
2	3.130	3.130	0.000	304250	0.5000	0.5000	a
2	3.230	3.230	0.000	189259	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	5.241	5.241	0.000	913507	0.5000	0.5000	M
1	5.433	5.433	0.000	705910	0.5000	0.5000	M
1	5.640	5.640	0.000	1683967	0.5000	0.5000	M
1	5.883	5.883	0.000	523458	0.5000	0.5000	M
1	5.942	5.942	0.000	619047	0.5000	0.5000	M
		Average of Peak Amounts =				0.5000	
2	4.968	4.968	0.000	1011982	0.5000	0.5000	a
2	5.234	5.234	0.000	898627	0.5000	0.5000	a
2	5.373	5.373	0.000	1997007	0.5000	0.5000	a
2	5.671	5.671	0.000	798884	0.5000	0.5000	a
2	5.710	5.710	0.000	1196324	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00015 Amount Added: 1.00 Units: mL

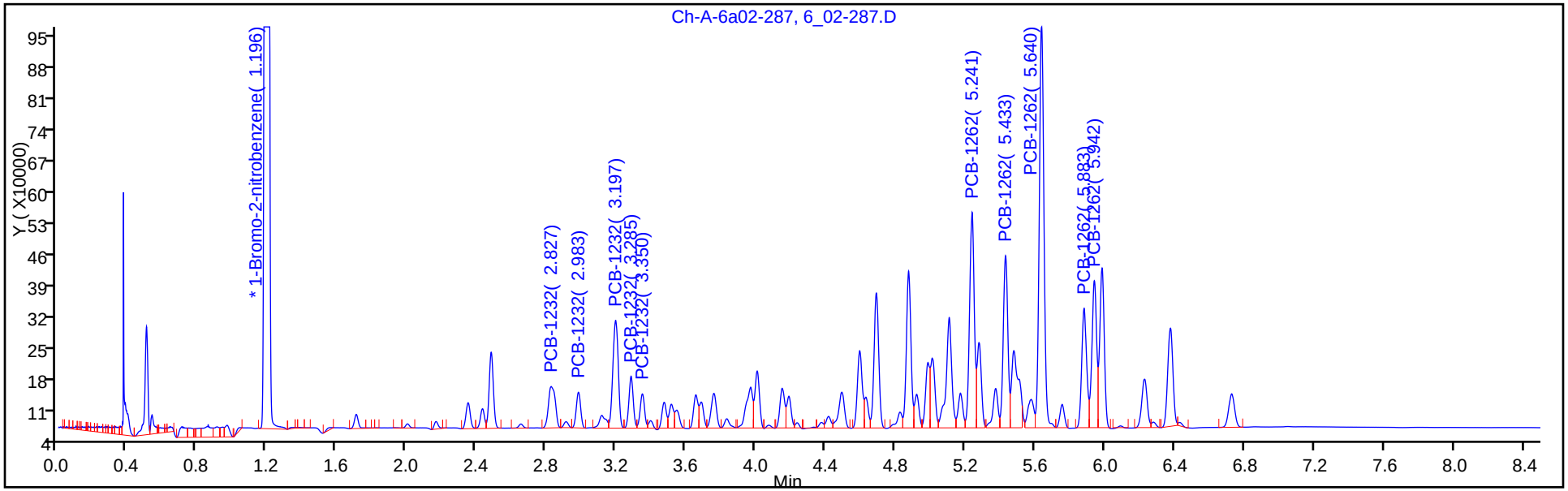
Report Date: 30-Oct-2017 12:28:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

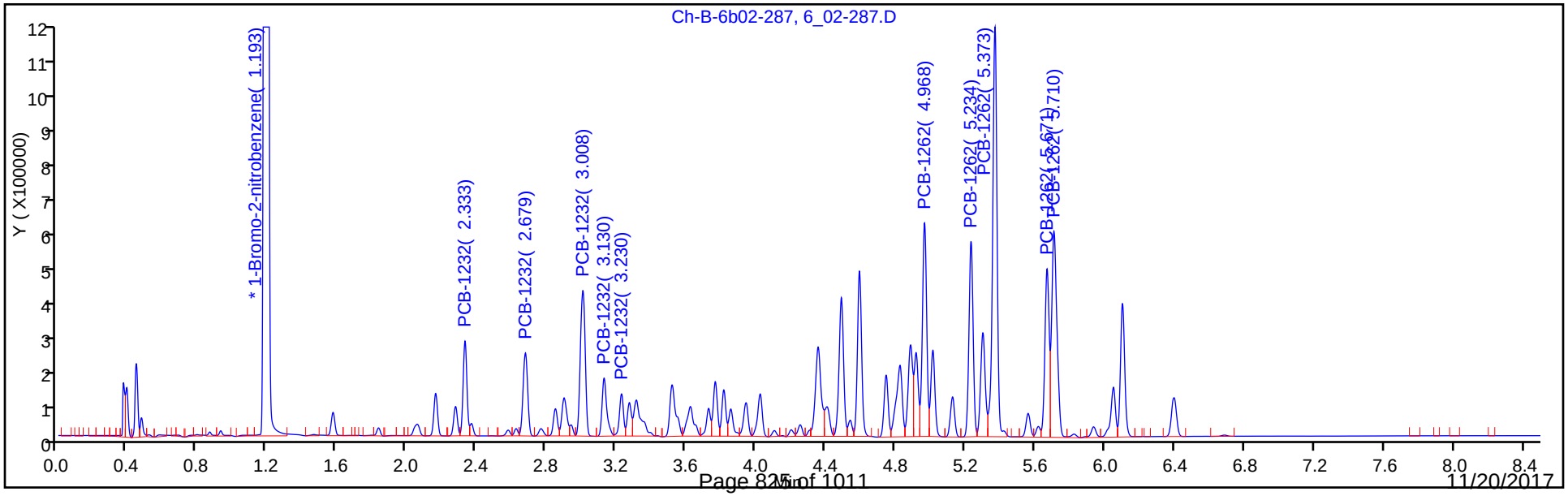
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-287.D

Injection Date:	28-Oct-2017 19:18:33	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



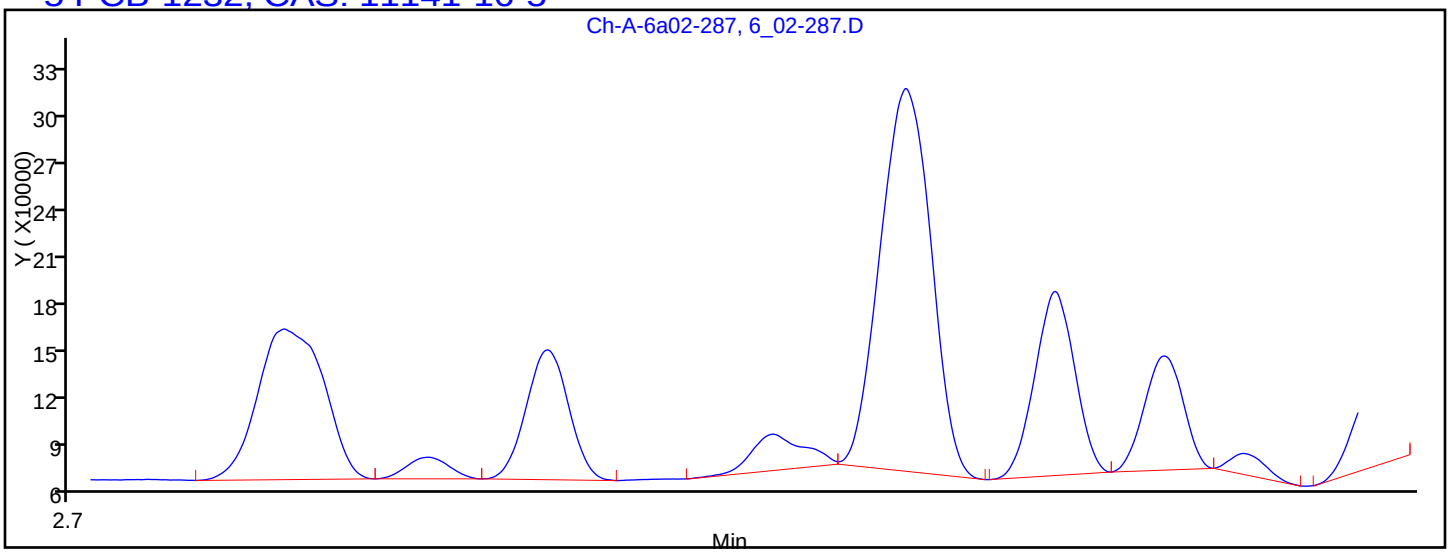
Report Date: 30-Oct-2017 12:28:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

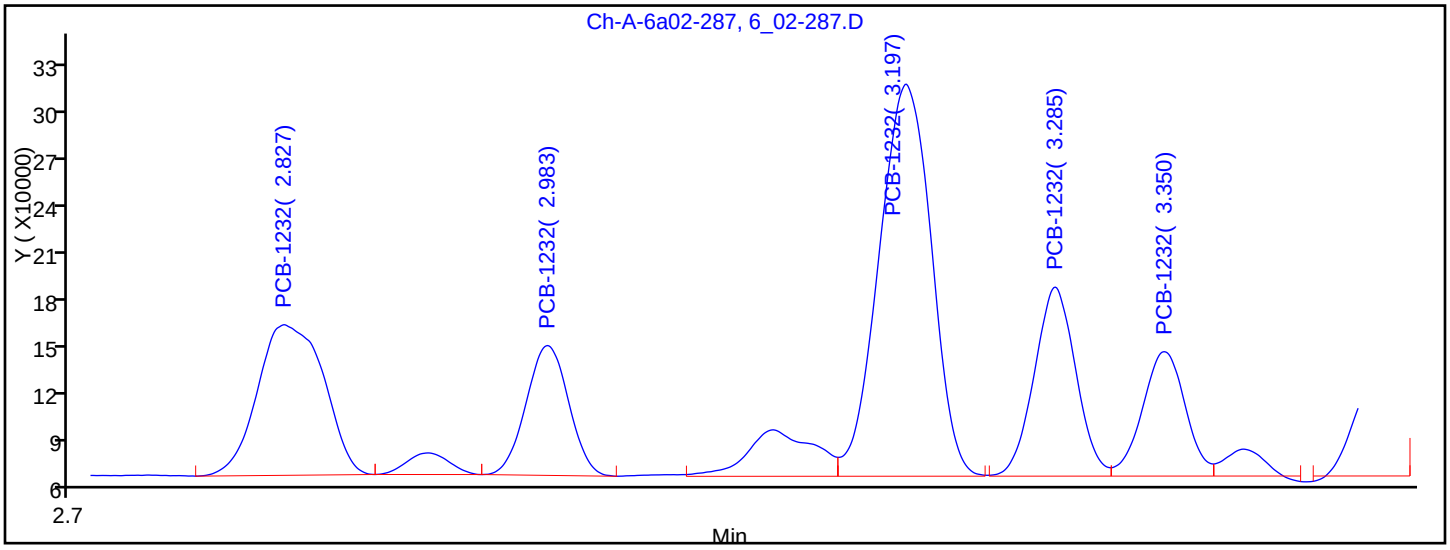
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-287.D

Injection Date:	28-Oct-2017 19:18:33	Instrument ID:	HP6890-6		
Lims ID:	IC 2				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results



Manual Integration Results

2.827	Response = 252576	M
2.983	Response = 139857	M
3.197	Response = 520714	M
3.285	Response = 198678	M
3.350	Response = 135163	M

Reviewer: owenj, 30-Oct-2017 11:40:08

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:28:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-287.D

Injection Date: 28-Oct-2017 19:18:33 Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

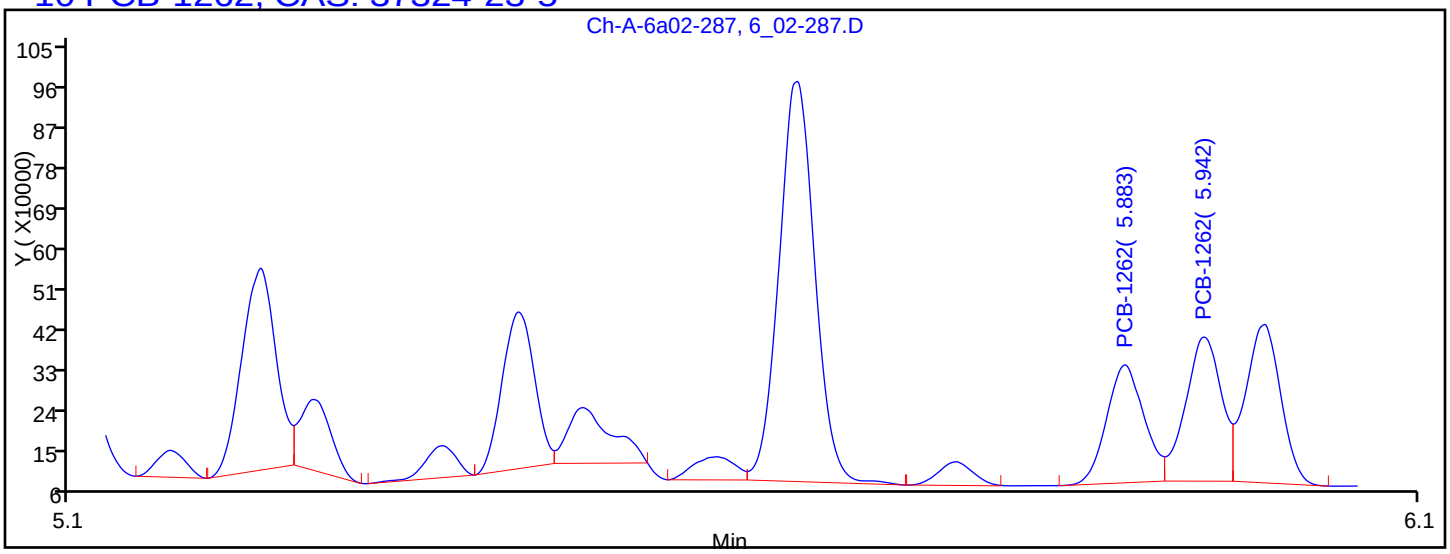
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

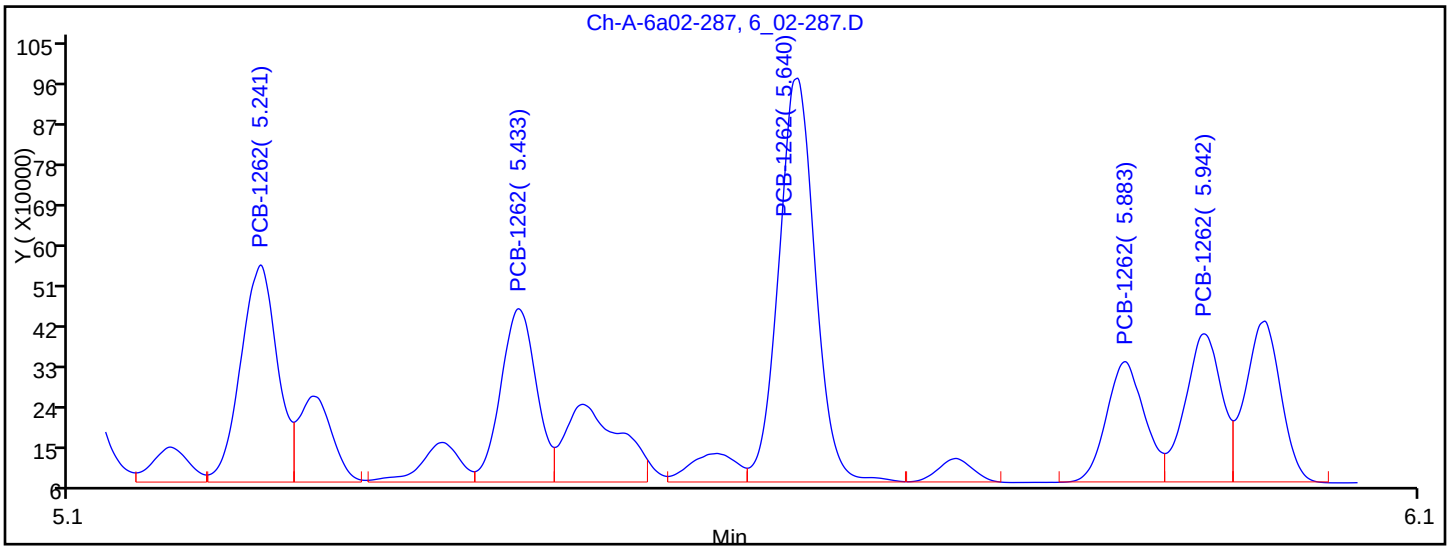
Column: Detector Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5



Processing Integration Results

5.174	Response = 88858
5.376	Response = 113277
5.580	Response = 111441
5.883	Response = 504451
5.942	Response = 591782



Manual Integration Results

5.241	Response = 913507	M
5.433	Response = 705910	M
5.640	Response = 1683967	M
5.883	Response = 523458	M
5.942	Response = 619047	M

Reviewer: owenj, 30-Oct-2017 11:39:53

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-288.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Oct-2017 19:34:30 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:16 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 11:48:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.197	1.197	0.000	13397101	0.5000	0.5000	
2	1.193	1.193	0.000	19336570	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.845	2.845	0.000	8289	0.0200	0.0164	M
1	2.983	2.983	0.000	2293	0.0200	0.008182	M
1	3.198	3.198	0.000	28688	0.0200	0.0275	M
1	3.285	3.285	0.000	12769	0.0200	0.0321	M
1	3.352	3.352	0.000	8980	0.0200	0.0332	M
		Average of Peak Amounts =				0.0235	
2	2.333	2.333	0.000	19884	0.0200	0.0247	M
2	2.678	2.678	0.000	24720	0.0200	0.0290	M
2	3.009	3.009	0.000	44076	0.0200	0.0277	M
2	3.131	3.131	0.000	15753	0.0200	0.0258	M
2	3.231	3.231	0.000	7695	0.0200	0.0202	M
		Average of Peak Amounts =				0.0255	
						RPD = 8.23	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	5.242	5.242	0.000	44321	0.0200	0.0242	M
1	5.435	5.435	0.000	26084	0.0200	0.0184	M
1	5.640	5.640	0.000	65373	0.0200	0.0194	M
1	5.884	5.884	0.000	28194	0.0200	0.0269	M
1	5.943	5.943	0.000	31669	0.0200	0.0255	M
		Average of Peak Amounts =				0.0229	
2	4.968	4.968	0.000	51449	0.0200	0.0253	M
2	5.233	5.233	0.000	34666	0.0200	0.0192	M
2	5.371	5.371	0.000	91185	0.0200	0.0227	M
2	5.671	5.671	0.000	40552	0.0200	0.0253	M
2	5.711	5.711	0.000	58629	0.0200	0.0244	M
		Average of Peak Amounts =				0.0234	
						RPD = 2.09	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00007 Amount Added: 1.00 Units: mL

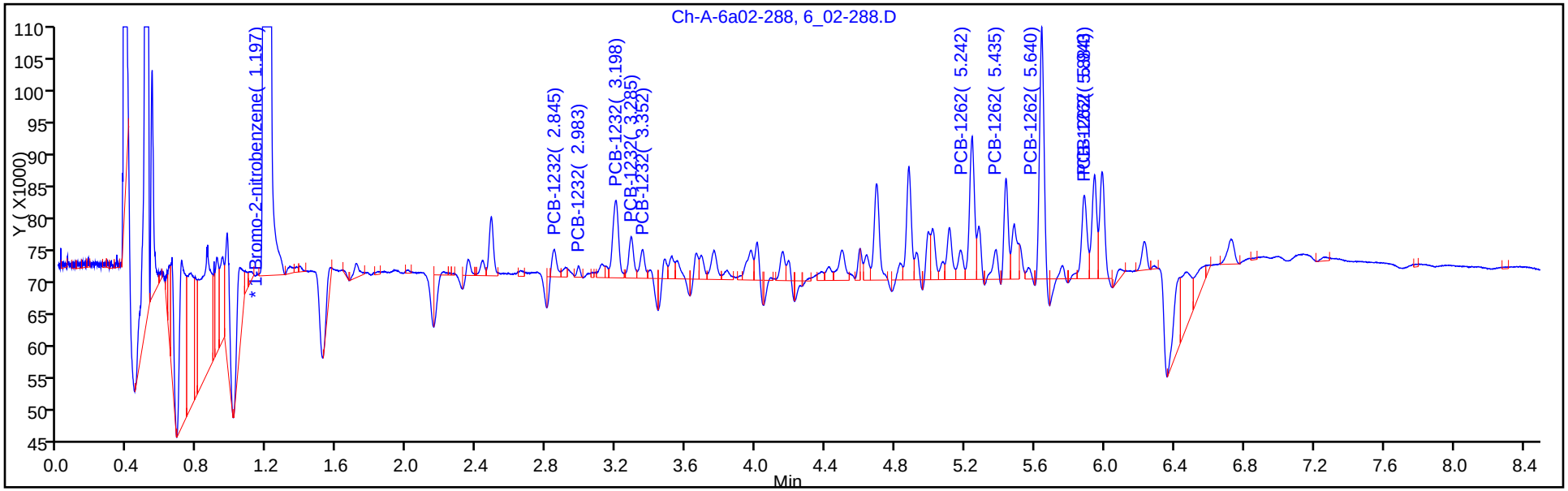
Report Date: 30-Oct-2017 12:28:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

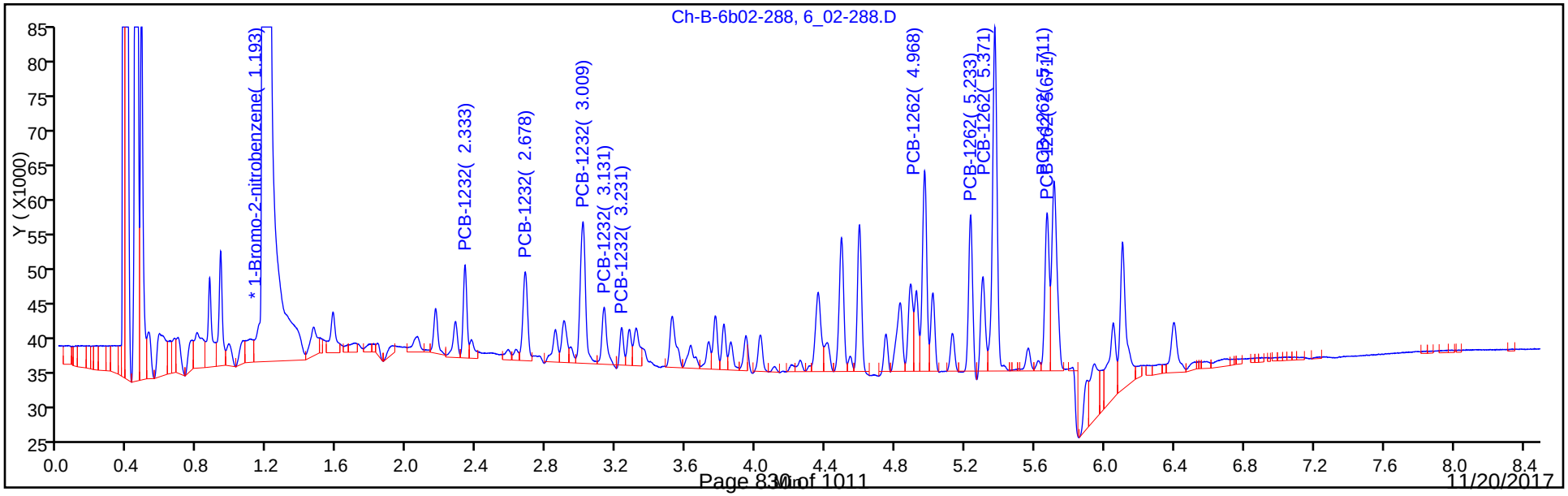
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-288.D

Injection Date:	28-Oct-2017 19:34:30	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Oct-2017 12:28:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-288.D

Injection Date: 28-Oct-2017 19:34:30 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

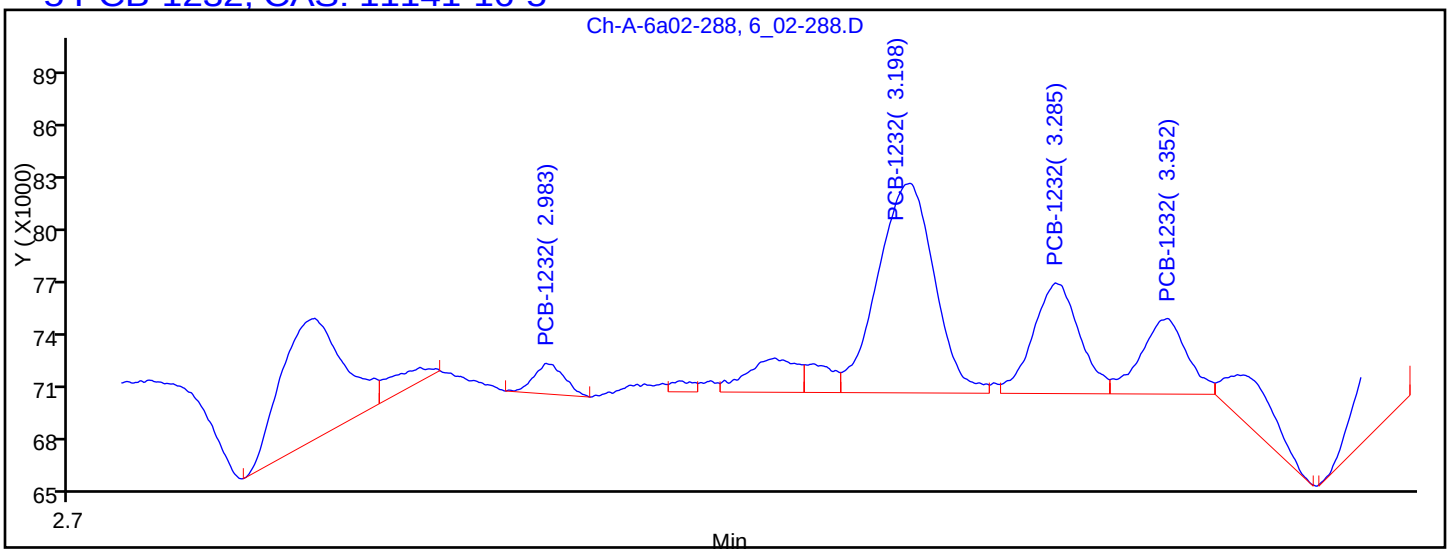
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

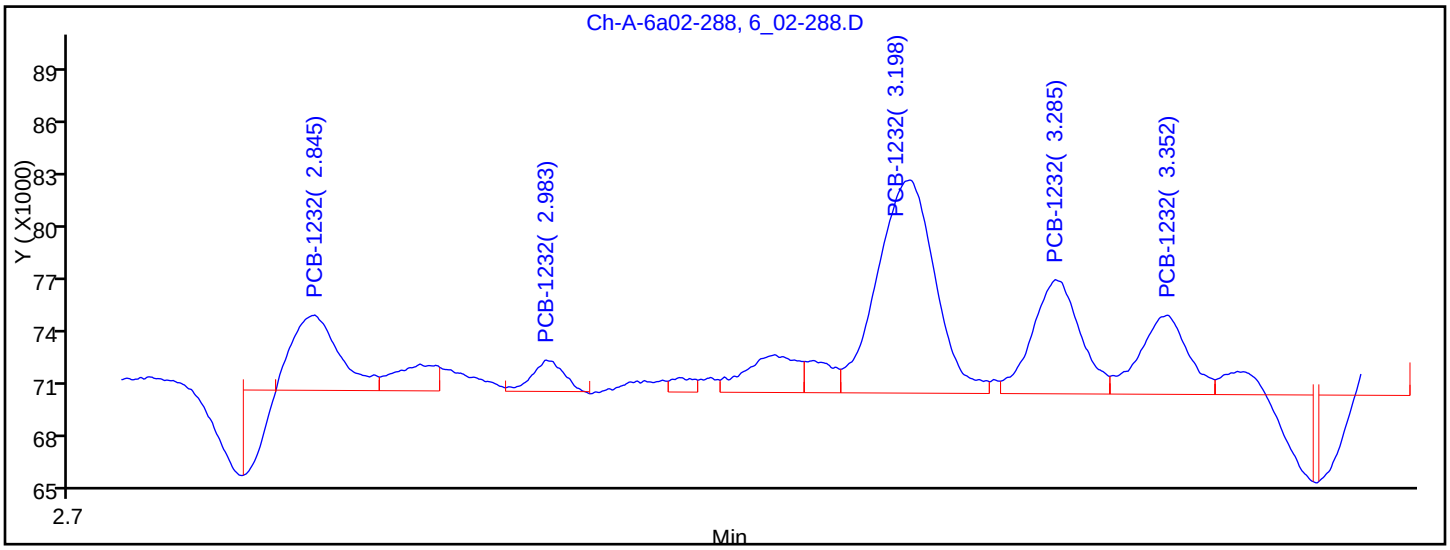
Column: Detector Ch-A-7A136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.845	Response = 0
2.983	Response = 2174
3.198	Response = 27633
3.285	Response = 11993
3.352	Response = 8232



Manual Integration Results

2.845	Response = 8289	M
2.983	Response = 2293	M
3.198	Response = 28688	M
3.285	Response = 12769	M
3.352	Response = 8980	M

Reviewer: owenj, 30-Oct-2017 11:42:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:28:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-288.D

Injection Date: 28-Oct-2017 19:34:30 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

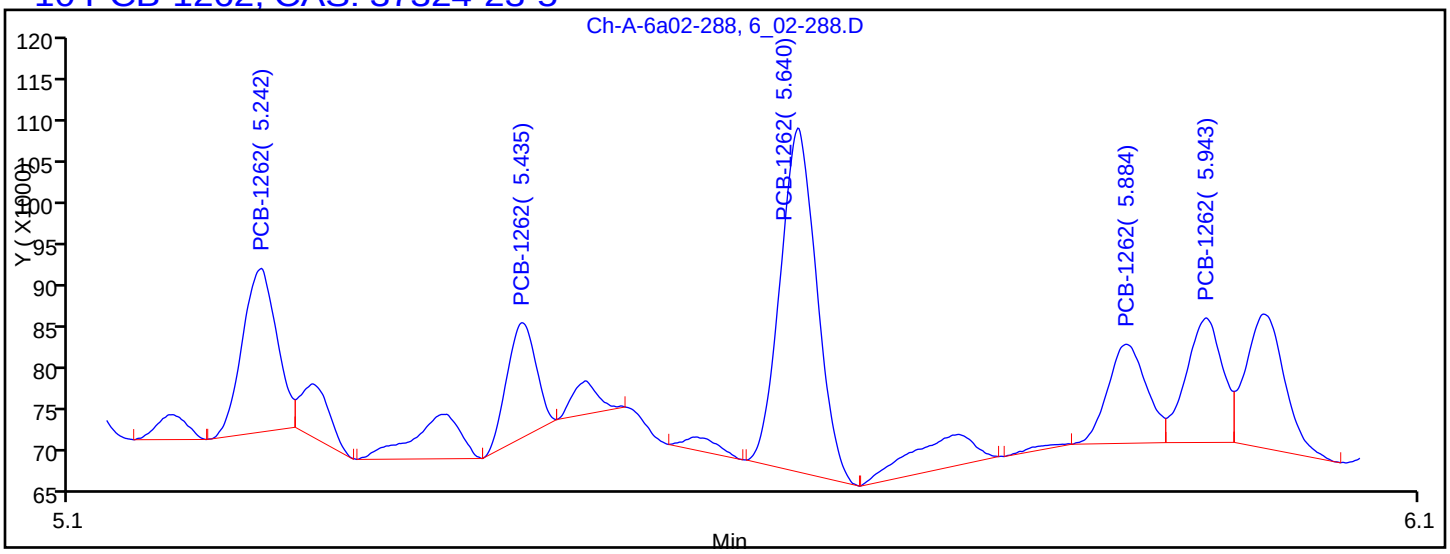
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

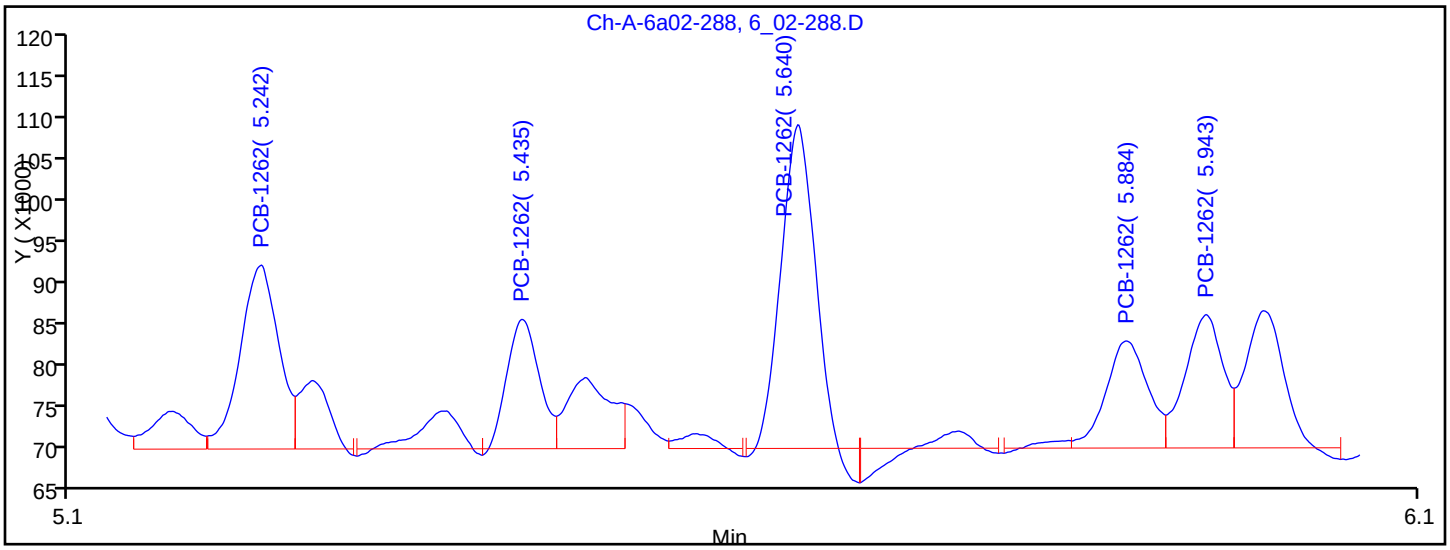
Column: Detector Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5



Processing Integration Results

5.242	Response = 35396
5.435	Response = 20918
5.640	Response = 78392
5.884	Response = 24194
5.943	Response = 28448



Manual Integration Results

5.242	Response = 44321	M
5.435	Response = 26084	M
5.640	Response = 65373	M
5.884	Response = 28194	M
5.943	Response = 31669	M

Reviewer: owenj, 30-Oct-2017 11:41:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 19:02 Calibration End Date: 10/28/2017 19:34 Calibration ID: 31834

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/24	6_02-288.D
Level 2	IC 480-384409/23	6_02-287.D
Level 3	IC 480-384409/22	6_02-286.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	+++++	0.0208	+++++			Ave		0.0208						20.0			
PCB-1232 Peak 2	+++++	0.0220	+++++			Ave		0.0220						20.0			
PCB-1232 Peak 3	+++++	0.0412	+++++			Ave		0.0412						20.0			
PCB-1232 Peak 4	+++++	0.0158	+++++			Ave		0.0158						20.0			
PCB-1232 Peak 5	+++++	0.0098	+++++			Ave		0.0098						20.0			
PCB-1262 Peak 1	+++++	0.0526	+++++			Ave		0.0526						20.0			
PCB-1262 Peak 2	+++++	0.0467	+++++			Ave		0.0467						20.0			
PCB-1262 Peak 3	+++++	0.1038	+++++			Ave		0.1038						20.0			
PCB-1262 Peak 4	+++++	0.0415	+++++			Ave		0.0415						20.0			
PCB-1262 Peak 5	+++++	0.0622	+++++			Ave		0.0622						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 19:02 Calibration End Date: 10/28/2017 19:34 Calibration ID: 31834

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/24	6_02-288.D
Level 2	IC 480-384409/23	6_02-287.D
Level 3	IC 480-384409/22	6_02-286.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Ave	+++++	400987	+++++			+++++	0.500	+++++		
PCB-1232 Peak 2	BNB	Ave	+++++	423658	+++++			+++++	0.500	+++++		
PCB-1232 Peak 3	BNB	Ave	+++++	793032	+++++			+++++	0.500	+++++		
PCB-1232 Peak 4	BNB	Ave	+++++	304250	+++++			+++++	0.500	+++++		
PCB-1232 Peak 5	BNB	Ave	+++++	189259	+++++			+++++	0.500	+++++		
PCB-1262 Peak 1	BNB	Ave	+++++	1011982	+++++			+++++	0.500	+++++		
PCB-1262 Peak 2	BNB	Ave	+++++	898627	+++++			+++++	0.500	+++++		
PCB-1262 Peak 3	BNB	Ave	+++++	1997007	+++++			+++++	0.500	+++++		
PCB-1262 Peak 4	BNB	Ave	+++++	798884	+++++			+++++	0.500	+++++		
PCB-1262 Peak 5	BNB	Ave	+++++	1196324	+++++			+++++	0.500	+++++		

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-286.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Oct-2017 19:02:35 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:05 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 11:39:42

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.197	1.198	-0.001	13442986	0.5000	0.5000	
2	1.193	1.193	-0.001	19321684	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.826	2.845	-0.019	993814	2.00	1.96	M
1	2.984	2.983	0.002	551484	2.00	1.96	M
1	3.198	3.198	0.000	2077997	2.00	1.98	M
1	3.286	3.285	0.001	768696	2.00	1.92	M
1	3.351	3.352	-0.001	527707	2.00	1.94	M
		Average of Peak Amounts =				1.95	
2	2.333	2.333	-0.001	1439520	2.00	1.79	
2	2.678	2.678	0.000	1502248	2.00	1.77	
2	3.009	3.009	0.000	3063163	2.00	1.92	
2	3.130	3.131	-0.001	1139905	2.00	1.87	
2	3.229	3.231	-0.002	744351	2.00	1.96	
		Average of Peak Amounts =				1.86	
						RPD = 4.91	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	5.242	5.242	0.000	3837638	2.00	2.09	M
1	5.433	5.435	-0.002	2963211	2.00	2.09	M
1	5.641	5.640	0.001	7433914	2.00	2.20	M
1	5.883	5.884	-0.001	2172128	2.00	2.06	M
1	5.943	5.943	-0.001	2605650	2.00	2.09	M
		Average of Peak Amounts =				2.11	
2	4.968	4.968	0.000	4072372	2.00	2.00	
2	5.234	5.233	0.002	3640954	2.00	2.02	
2	5.372	5.371	0.001	8156114	2.00	2.03	
2	5.670	5.671	-0.001	3240130	2.00	2.02	
2	5.710	5.711	-0.001	4859870	2.00	2.02	
		Average of Peak Amounts =				2.02	
						RPD = 4.19	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00007 Amount Added: 1.00 Units: mL

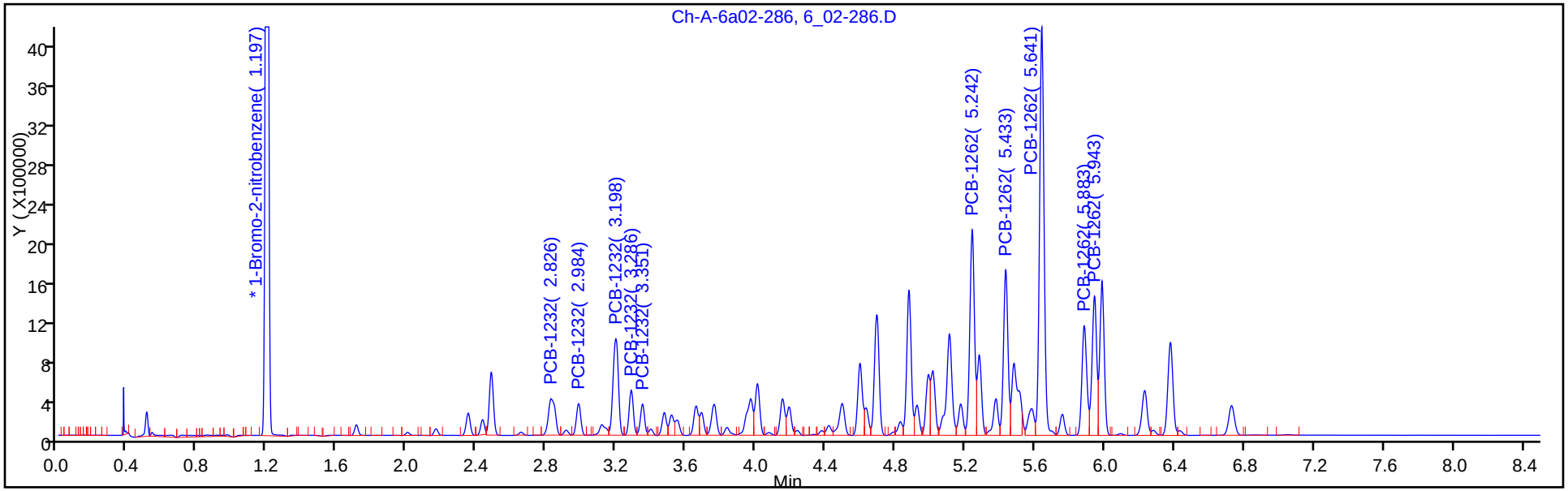
Report Date: 30-Oct-2017 12:28:06 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

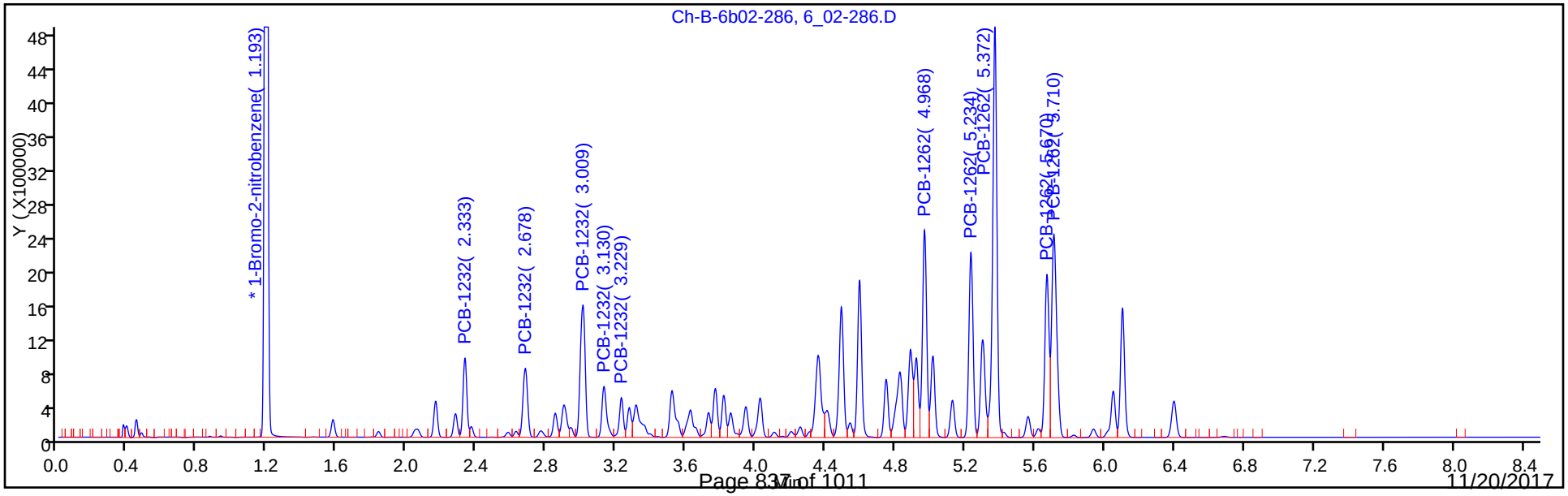
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-286.D

Injection Date:	28-Oct-2017 19:02:35	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-287.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Oct-2017 19:18:33 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:11 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 11:41:26

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.196	1.196	0.000	13370885	0.5000	0.5000	
2	1.193	1.193	0.000	19241849	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.827	2.827	0.000	252576	0.5000	0.5000	a
1	2.983	2.983	0.000	139857	0.5000	0.5000	a
1	3.197	3.197	0.000	520714	0.5000	0.5000	M
1	3.285	3.285	0.000	198678	0.5000	0.5000	M
1	3.350	3.350	0.000	135163	0.5000	0.5000	M
		Average of Peak Amounts =				0.5000	
2	2.333	2.333	0.000	400987	0.5000	0.5000	a
2	2.679	2.679	0.000	423658	0.5000	0.5000	a
2	3.008	3.008	0.000	793032	0.5000	0.5000	a
2	3.130	3.130	0.000	304250	0.5000	0.5000	a
2	3.230	3.230	0.000	189259	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	5.241	5.241	0.000	913507	0.5000	0.5000	M
1	5.433	5.433	0.000	705910	0.5000	0.5000	M
1	5.640	5.640	0.000	1683967	0.5000	0.5000	M
1	5.883	5.883	0.000	523458	0.5000	0.5000	M
1	5.942	5.942	0.000	619047	0.5000	0.5000	M
		Average of Peak Amounts =				0.5000	
2	4.968	4.968	0.000	1011982	0.5000	0.5000	a
2	5.234	5.234	0.000	898627	0.5000	0.5000	a
2	5.373	5.373	0.000	1997007	0.5000	0.5000	a
2	5.671	5.671	0.000	798884	0.5000	0.5000	a
2	5.710	5.710	0.000	1196324	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00015 Amount Added: 1.00 Units: mL

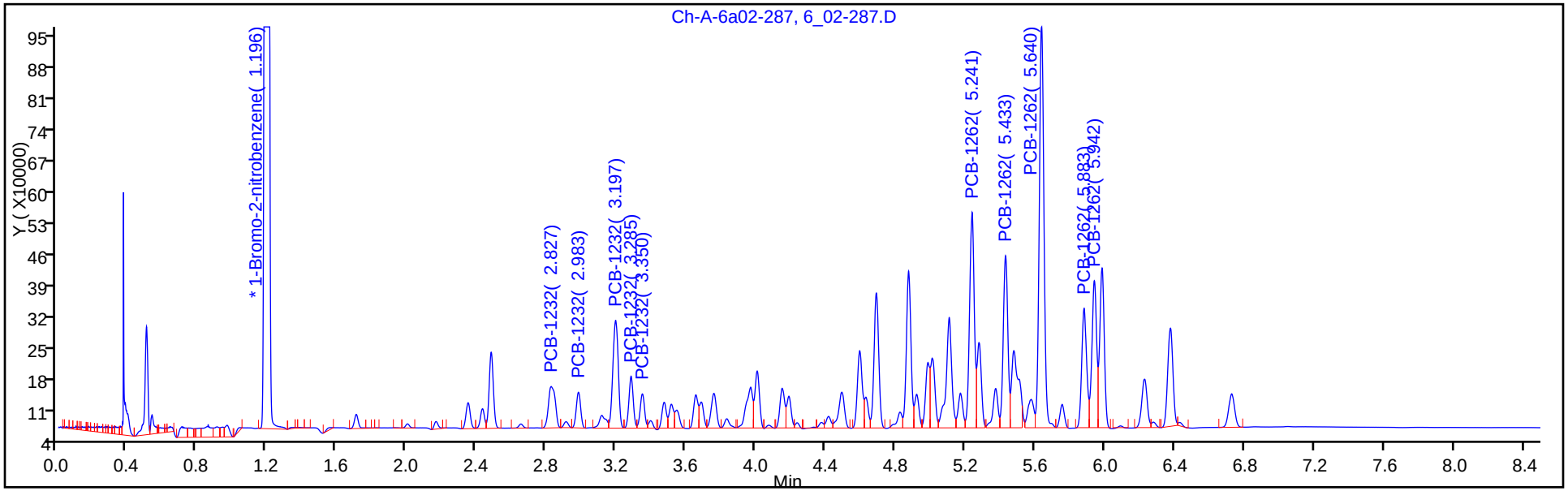
Report Date: 30-Oct-2017 12:28:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

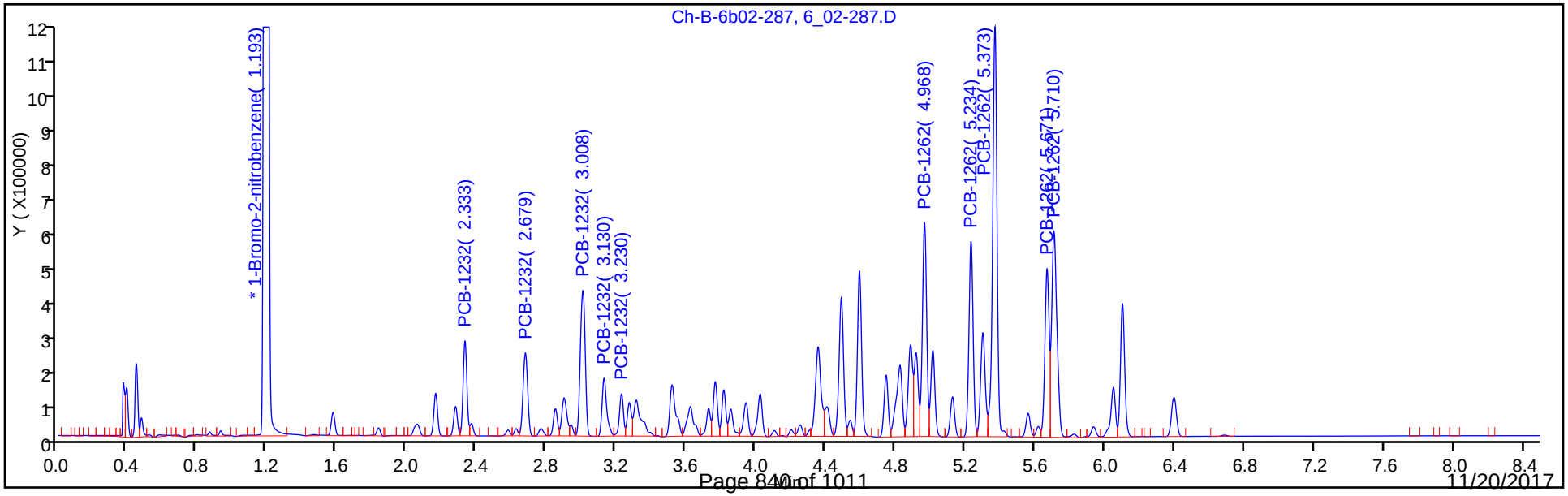
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-287.D

Injection Date:	28-Oct-2017 19:18:33	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-288.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Oct-2017 19:34:30 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:28:16 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 11:48:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.197	1.197	0.000	13397101	0.5000	0.5000	
2	1.193	1.193	0.000	19336570	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.845	2.845	0.000	8289	0.0200	0.0164	M
1	2.983	2.983	0.000	2293	0.0200	0.008182	M
1	3.198	3.198	0.000	28688	0.0200	0.0275	M
1	3.285	3.285	0.000	12769	0.0200	0.0321	M
1	3.352	3.352	0.000	8980	0.0200	0.0332	M
		Average of Peak Amounts =				0.0235	
2	2.333	2.333	0.000	19884	0.0200	0.0247	M
2	2.678	2.678	0.000	24720	0.0200	0.0290	M
2	3.009	3.009	0.000	44076	0.0200	0.0277	M
2	3.131	3.131	0.000	15753	0.0200	0.0258	M
2	3.231	3.231	0.000	7695	0.0200	0.0202	M
		Average of Peak Amounts =				0.0255	
						RPD = 8.23	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	5.242	5.242	0.000	44321	0.0200	0.0242	M
1	5.435	5.435	0.000	26084	0.0200	0.0184	M
1	5.640	5.640	0.000	65373	0.0200	0.0194	M
1	5.884	5.884	0.000	28194	0.0200	0.0269	M
1	5.943	5.943	0.000	31669	0.0200	0.0255	M
		Average of Peak Amounts =				0.0229	
2	4.968	4.968	0.000	51449	0.0200	0.0253	M
2	5.233	5.233	0.000	34666	0.0200	0.0192	M
2	5.371	5.371	0.000	91185	0.0200	0.0227	M
2	5.671	5.671	0.000	40552	0.0200	0.0253	M
2	5.711	5.711	0.000	58629	0.0200	0.0244	M
		Average of Peak Amounts =				0.0234	
						RPD = 2.09	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00007 Amount Added: 1.00 Units: mL

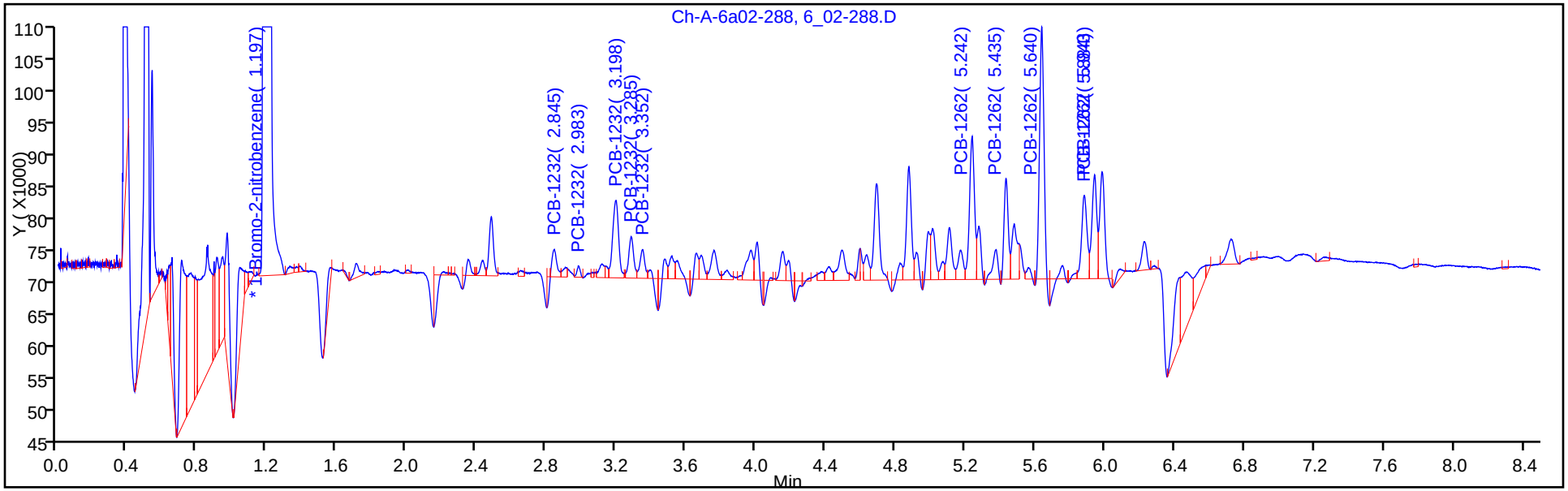
Report Date: 30-Oct-2017 12:28:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

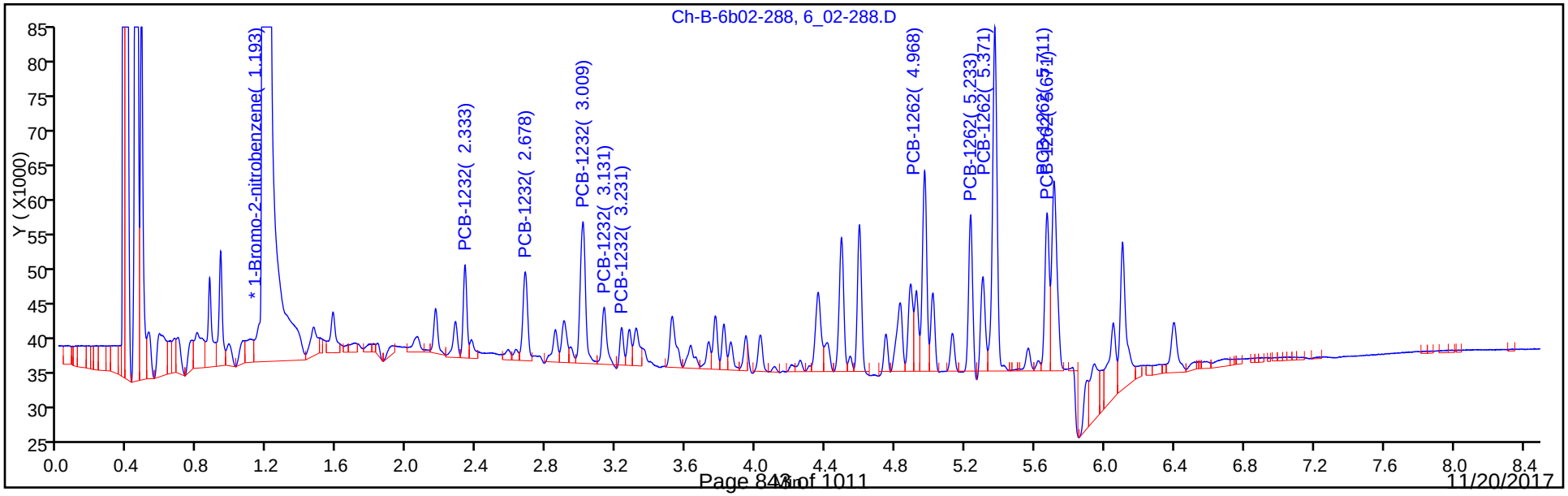
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-288.D

Injection Date:	28-Oct-2017 19:34:30	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



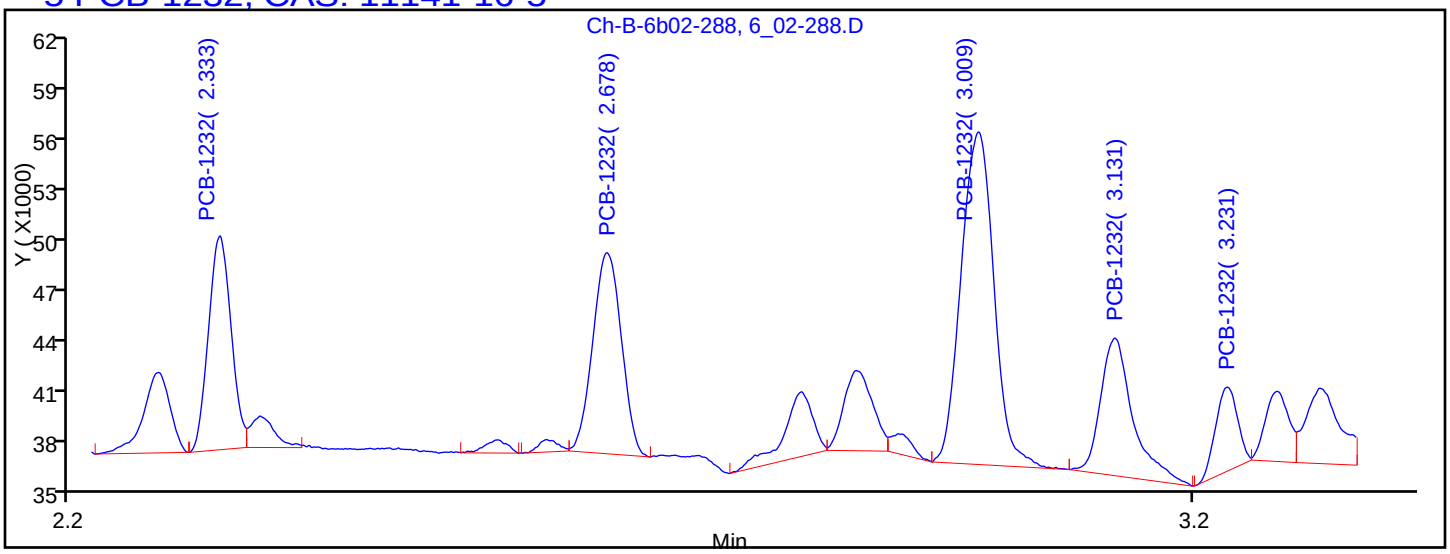
Report Date: 30-Oct-2017 12:28:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-288.D

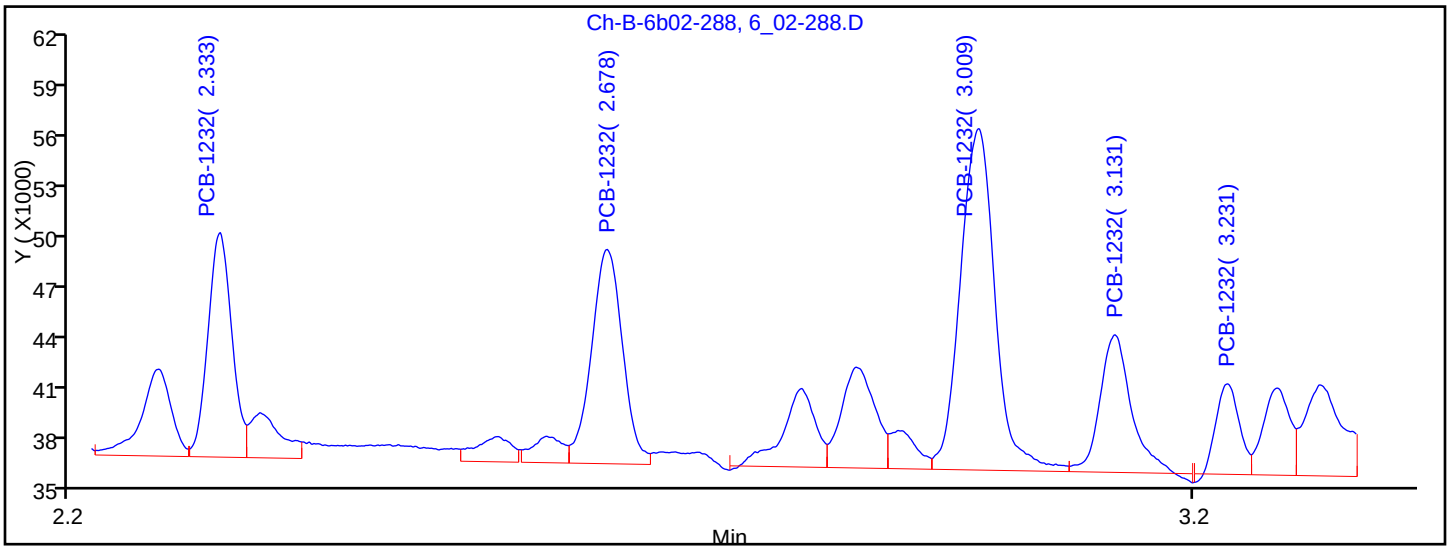
Injection Date:	28-Oct-2017 19:34:30	Instrument ID:	HP6890-6		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.333	Response = 17975
2.678	Response = 21319
3.009	Response = 40563
3.131	Response = 16495
3.231	Response = 6888



Manual Integration Results

2.333	Response = 19884	M
2.678	Response = 24720	M
3.009	Response = 44076	M
3.131	Response = 15753	M
3.231	Response = 7695	M

Reviewer: owenj, 30-Oct-2017 11:42:08

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 12:28:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-288.D

Injection Date: 28-Oct-2017 19:34:30 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

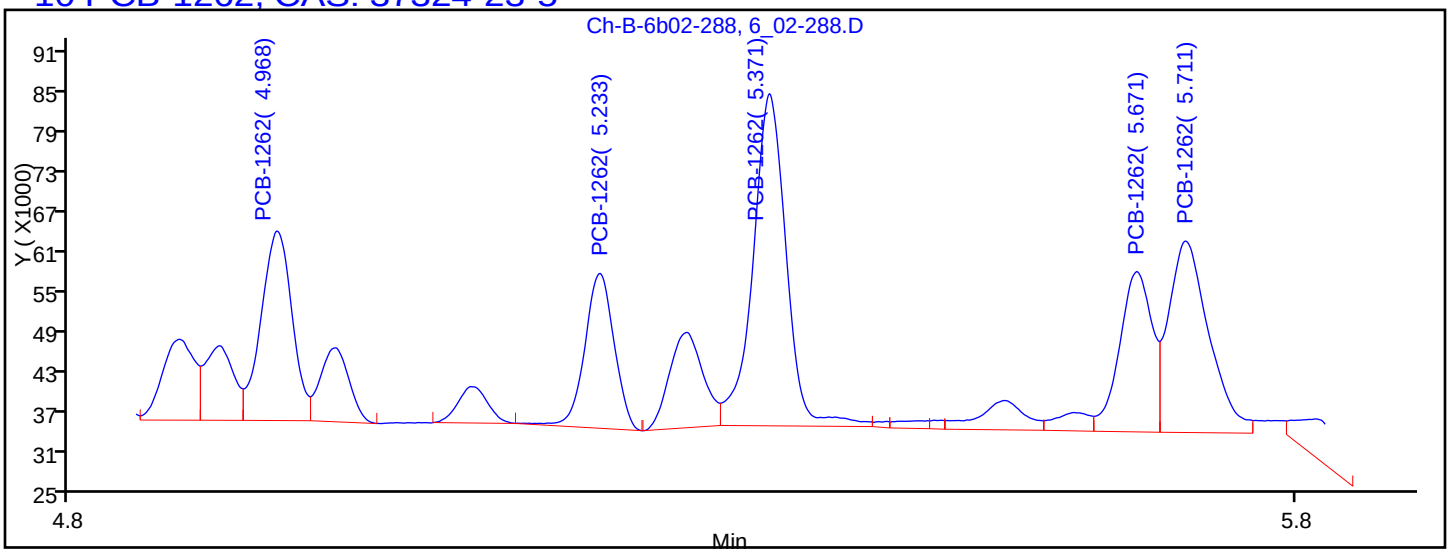
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

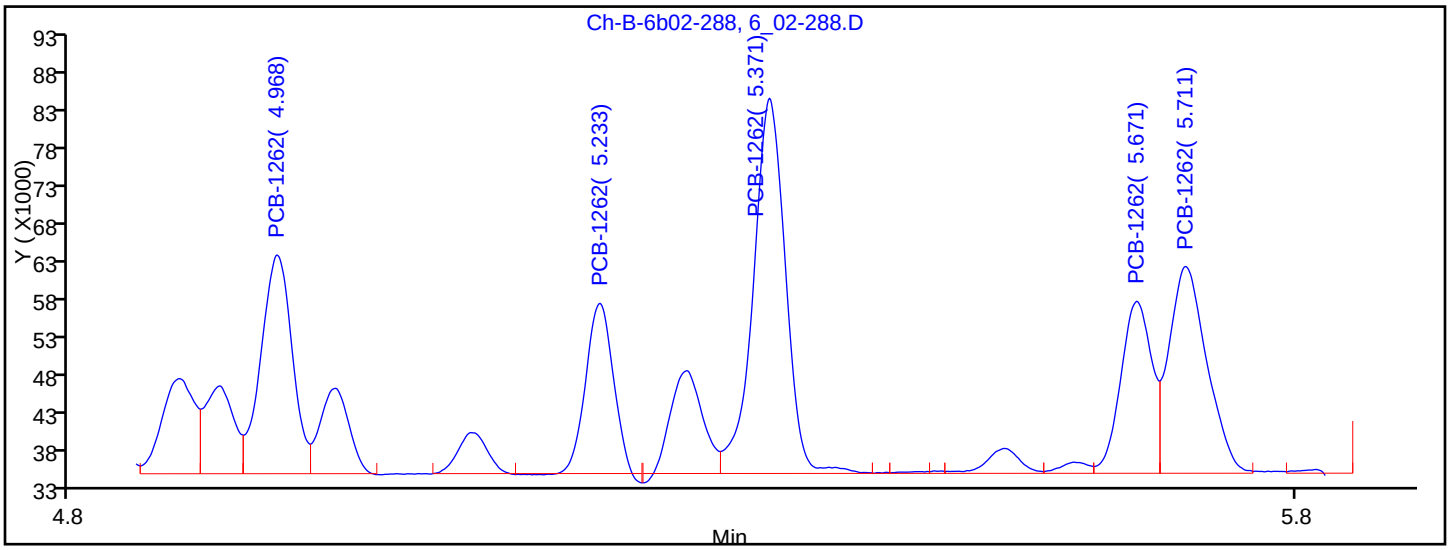
Column: Detector Ch-B-7b136

10 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.968	Response = 50403
5.233	Response = 38922
5.371	Response = 95230
5.671	Response = 45196
5.711	Response = 65825



Manual Integration Results

4.968	Response = 51449	M
5.233	Response = 34666	M
5.371	Response = 91185	M
5.671	Response = 40552	M
5.711	Response = 58629	M

Reviewer: owenj, 30-Oct-2017 11:42:06

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 21:10 Calibration End Date: 10/28/2017 21:43 Calibration ID: 31839

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/32	6_02-296.D
Level 2	IC 480-384409/31	6_02-295.D
Level 3	IC 480-384409/30	6_02-294.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	+++++	0.0292	+++++			Ave		0.0292						20.0			
PCB-1248 Peak 2	+++++	0.0384	+++++			Ave		0.0384						20.0			
PCB-1248 Peak 3	+++++	0.0639	+++++			Ave		0.0639						20.0			
PCB-1248 Peak 4	+++++	0.0482	+++++			Ave		0.0482						20.0			
PCB-1248 Peak 5	+++++	0.0405	+++++			Ave		0.0405						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 21:10 Calibration End Date: 10/28/2017 21:43 Calibration ID: 31839

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/32	6_02-296.D
Level 2	IC 480-384409/31	6_02-295.D
Level 3	IC 480-384409/30	6_02-294.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Ave	+++++	351332	+++++			+++++	0.500	+++++		
PCB-1248 Peak 2	BNB	Ave	+++++	462552	+++++			+++++	0.500	+++++		
PCB-1248 Peak 3	BNB	Ave	+++++	769192	+++++			+++++	0.500	+++++		
PCB-1248 Peak 4	BNB	Ave	+++++	580572	+++++			+++++	0.500	+++++		
PCB-1248 Peak 5	BNB	Ave	+++++	487063	+++++			+++++	0.500	+++++		

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-294.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Oct-2017 21:10:44 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:13 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.197	0.001	12963031	0.5000	0.5000	
2	1.193	1.193	0.000	18787872	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							
1	3.478	3.479	-0.001	1510511	2.00	2.00	
1	3.762	3.763	-0.001	2039316	2.00	2.05	
1	3.974	3.973	0.001	3377205	2.00	2.04	
1	4.011	4.012	-0.001	2580689	2.00	2.06	
1	4.155	4.158	-0.003	2176265	2.00	2.07	
		Average of Peak Amounts =				2.04	
2	3.520	3.522	-0.002	2821538	2.00	1.90	
2	3.627	3.628	-0.001	2665284	2.00	1.90	
2	3.770	3.771	-0.001	3395828	2.00	1.95	
2	3.818	3.819	-0.001	2595520	2.00	1.97	
2	4.027	4.028	-0.001	2973400	2.00	1.95	
		Average of Peak Amounts =				1.93	
						RPD = 5.62	

Reagents:

1248w/IS@ 2.0_00007 Amount Added: 1.00 Units: mL

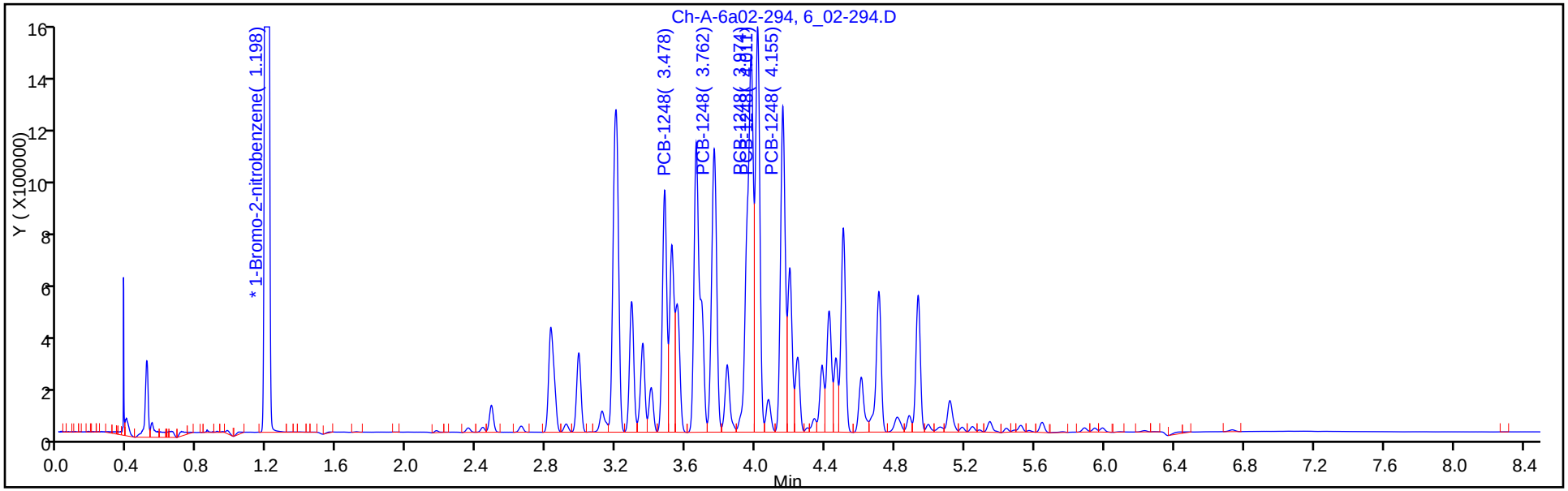
Report Date: 30-Oct-2017 12:27:13 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

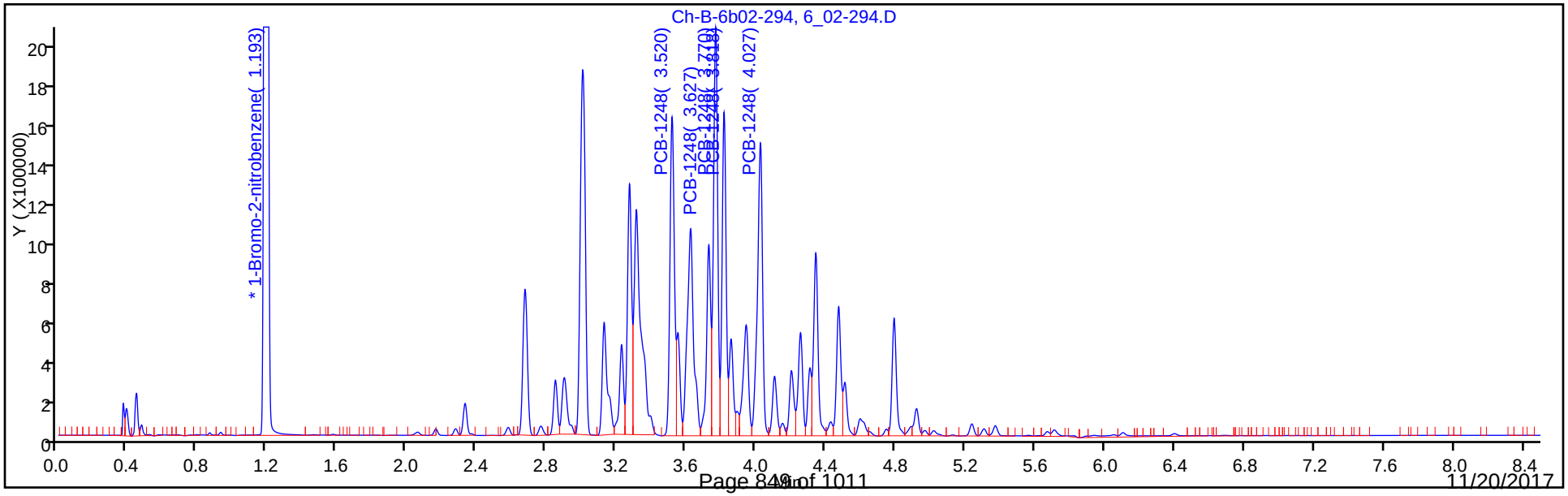
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-294.D

Injection Date:	28-Oct-2017 21:10:44	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-295.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Oct-2017 21:27:14 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:18 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 12:07:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.197	1.197	0.000	12036884	0.5000	0.5000	
2	1.193	1.193	0.000	17600513	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							
1	3.477	3.477	0.000	351332	0.5000	0.5000	a
1	3.761	3.761	0.000	462552	0.5000	0.5000	a
1	3.973	3.973	0.000	769192	0.5000	0.5000	a
1	4.009	4.009	0.000	580572	0.5000	0.5000	a
1	4.154	4.154	0.000	487063	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
2	3.521	3.521	0.000	695247	0.5000	0.5000	a
2	3.628	3.628	0.000	658550	0.5000	0.5000	a
2	3.771	3.771	0.000	816573	0.5000	0.5000	a
2	3.818	3.818	0.000	618098	0.5000	0.5000	a
2	4.026	4.026	0.000	714519	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

1248w/IS@ 0.5_00015 Amount Added: 1.00 Units: mL

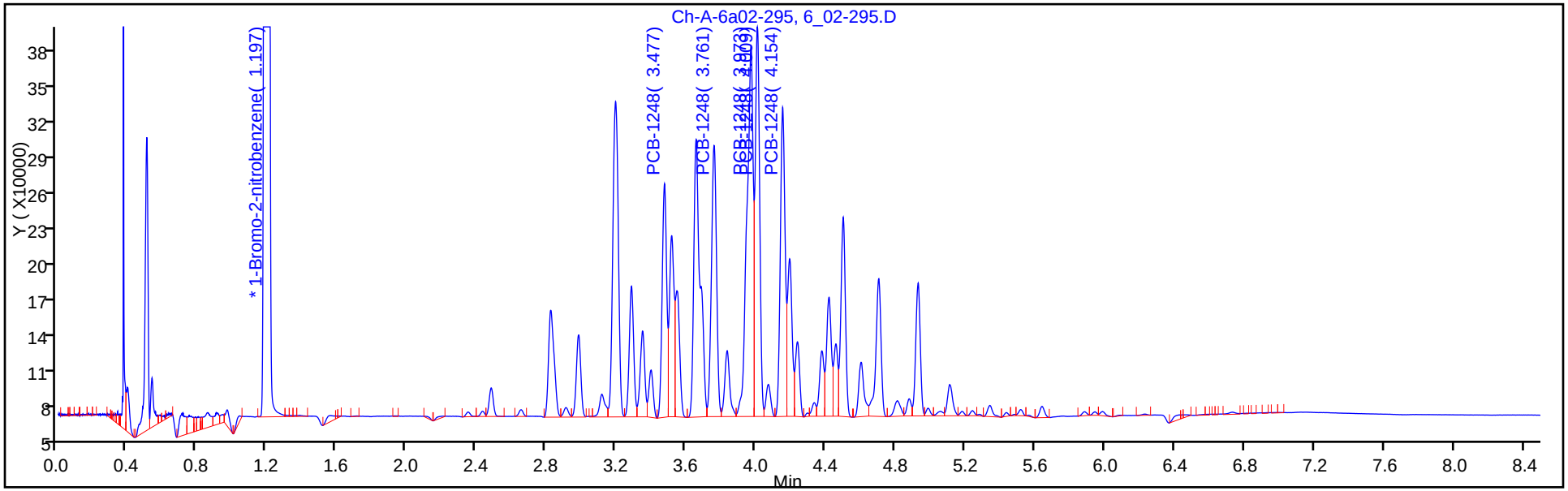
Report Date: 30-Oct-2017 12:27:18 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

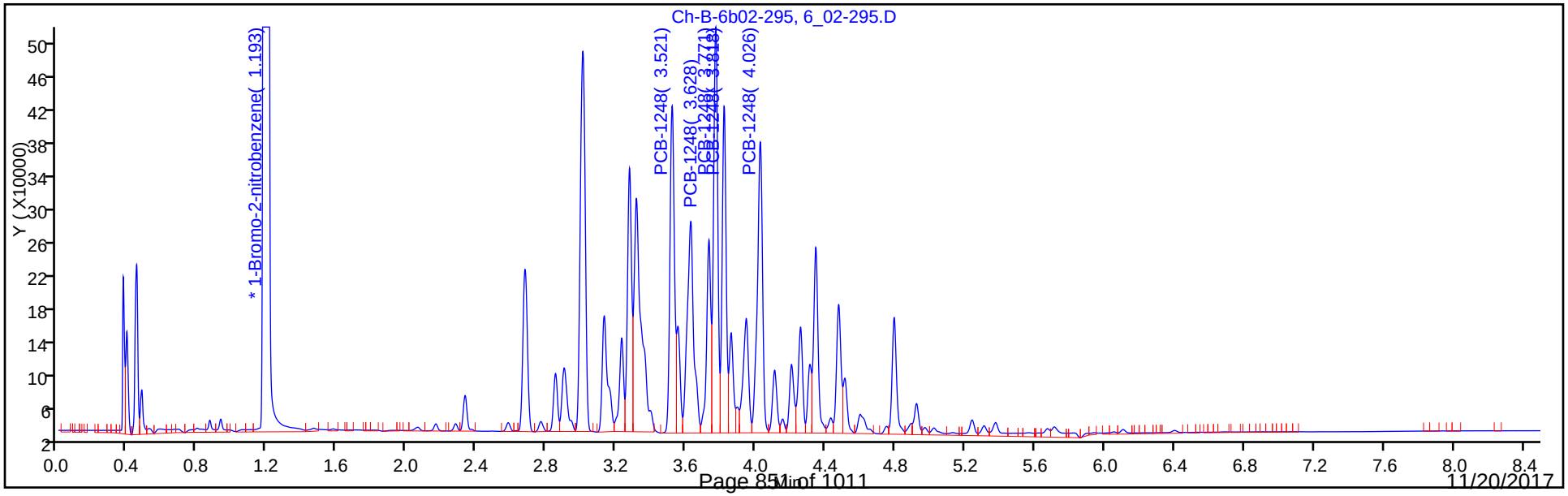
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-295.D

Injection Date:	28-Oct-2017 21:27:14	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Oct-2017 21:43:14 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:23 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 12:10:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.197	1.197	0.000	12698709	0.5000	0.5000	
2	1.193	1.193	0.000	18342880	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							M
1	3.479	3.479	0.000	13927	0.0200	0.0188	M
1	3.763	3.763	0.000	21126	0.0200	0.0216	M
1	3.973	3.973	0.000	34178	0.0200	0.0211	M
1	4.012	4.012	0.000	21826	0.0200	0.0178	M
1	4.158	4.158	0.000	19876	0.0200	0.0193	M
		Average of Peak Amounts =				0.0197	
2	3.522	3.522	0.000	36994	0.0200	0.0255	
2	3.628	3.628	0.000	31703	0.0200	0.0231	
2	3.771	3.771	0.000	41475	0.0200	0.0244	
2	3.819	3.819	0.000	30727	0.0200	0.0239	
2	4.028	4.028	0.000	32010	0.0200	0.0215	
		Average of Peak Amounts =				0.0237	
						RPD = 18.14	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00007 Amount Added: 1.00 Units: mL

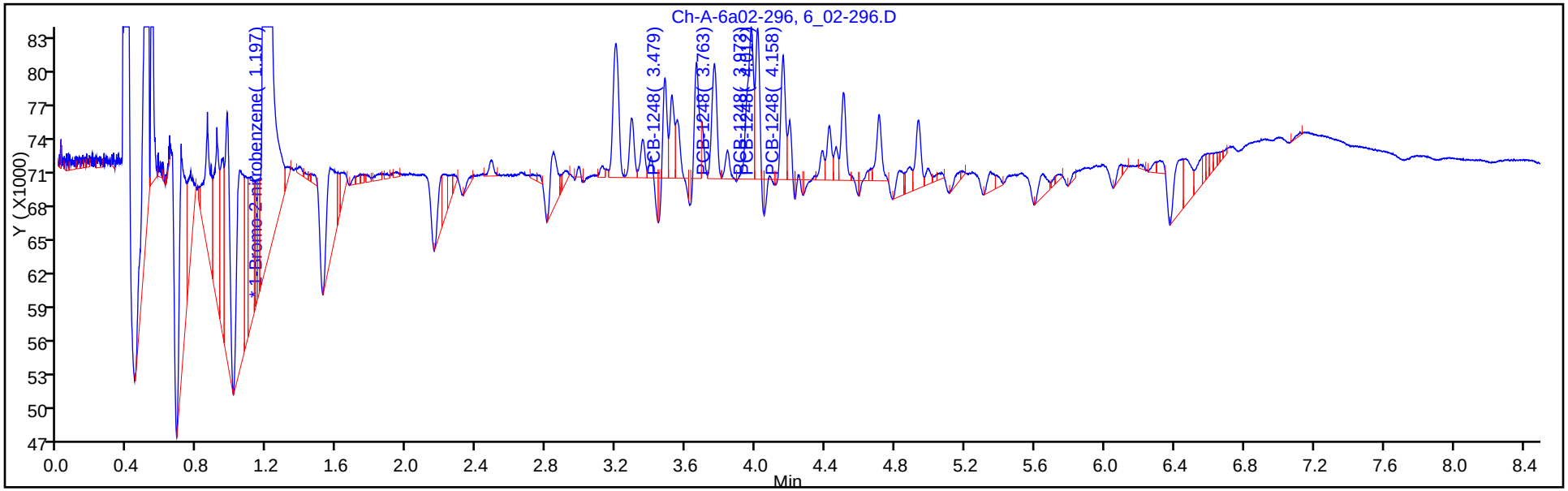
Report Date: 30-Oct-2017 12:27:23 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

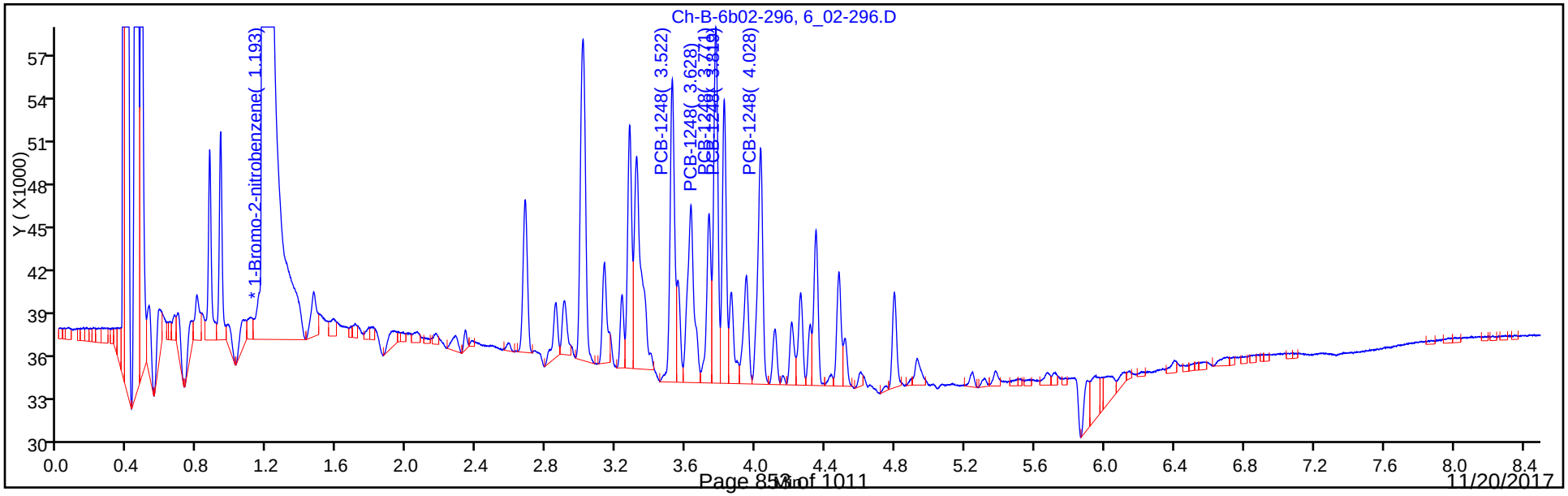
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Injection Date:	28-Oct-2017 21:43:14	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



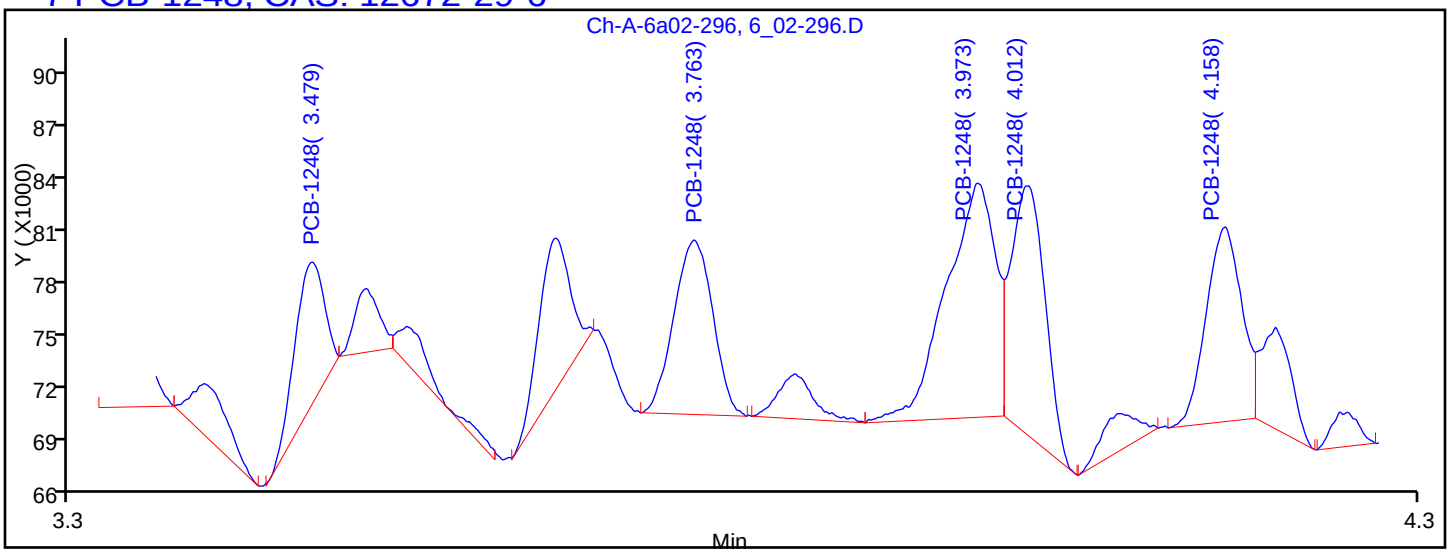
Report Date: 30-Oct-2017 12:27:23 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

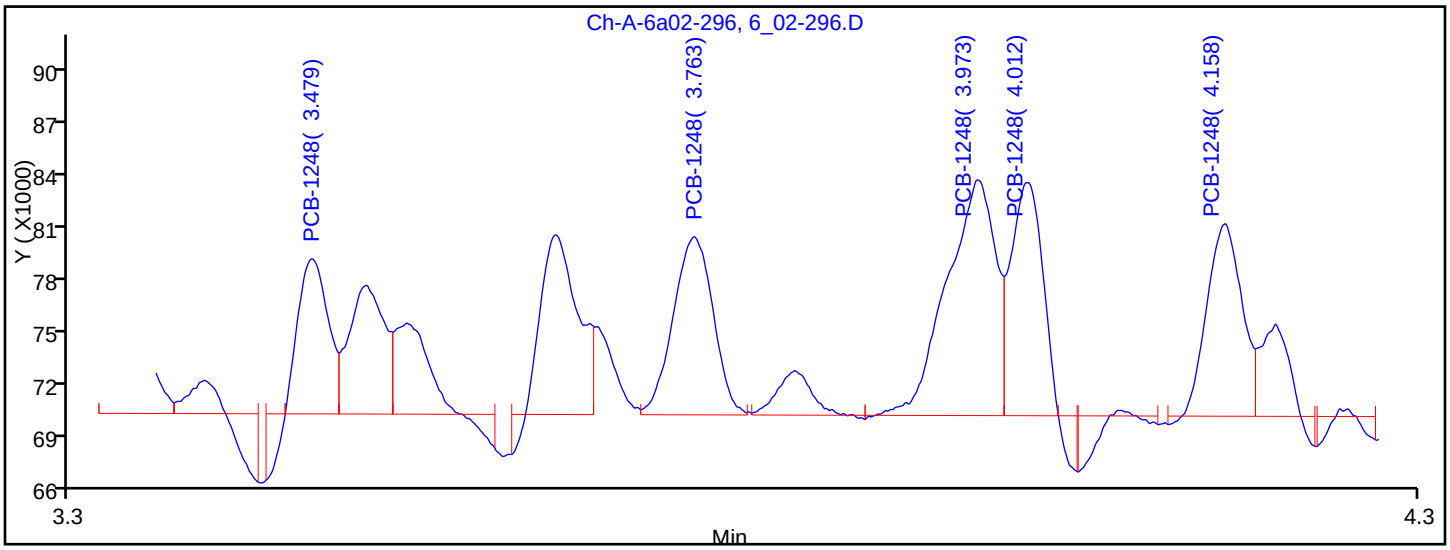
Injection Date:	28-Oct-2017 21:43:14	Instrument ID:	HP6890-6		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.479	Response = 12640
3.763	Response = 20122
3.973	Response = 34401
4.012	Response = 24960
4.158	Response = 20687



Manual Integration Results

3.479	Response = 13927	M
3.763	Response = 21126	M
3.973	Response = 34178	M
4.012	Response = 21826	M
4.158	Response = 19876	M

Reviewer: owenj, 30-Oct-2017 12:08:09

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 21:10 Calibration End Date: 10/28/2017 21:43 Calibration ID: 31840

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/32	6_02-296.D
Level 2	IC 480-384409/31	6_02-295.D
Level 3	IC 480-384409/30	6_02-294.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	+++++	0.0395	+++++			Ave		0.0395						20.0			
PCB-1248 Peak 2	+++++	0.0374	+++++			Ave		0.0374						20.0			
PCB-1248 Peak 3	+++++	0.0464	+++++			Ave		0.0464						20.0			
PCB-1248 Peak 4	+++++	0.0351	+++++			Ave		0.0351						20.0			
PCB-1248 Peak 5	+++++	0.0406	+++++			Ave		0.0406						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384409

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2017 21:10 Calibration End Date: 10/28/2017 21:43 Calibration ID: 31840

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384409/32	6_02-296.D
Level 2	IC 480-384409/31	6_02-295.D
Level 3	IC 480-384409/30	6_02-294.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Ave	+++++	695247	+++++			+++++	0.500	+++++		
PCB-1248 Peak 2	BNB	Ave	+++++	658550	+++++			+++++	0.500	+++++		
PCB-1248 Peak 3	BNB	Ave	+++++	816573	+++++			+++++	0.500	+++++		
PCB-1248 Peak 4	BNB	Ave	+++++	618098	+++++			+++++	0.500	+++++		
PCB-1248 Peak 5	BNB	Ave	+++++	714519	+++++			+++++	0.500	+++++		

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-294.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Oct-2017 21:10:44 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:13 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.198	1.197	0.001	12963031	0.5000	0.5000	
2	1.193	1.193	0.000	18787872	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							
1	3.478	3.479	-0.001	1510511	2.00	2.00	
1	3.762	3.763	-0.001	2039316	2.00	2.05	
1	3.974	3.973	0.001	3377205	2.00	2.04	
1	4.011	4.012	-0.001	2580689	2.00	2.06	
1	4.155	4.158	-0.003	2176265	2.00	2.07	
		Average of Peak Amounts =				2.04	
2	3.520	3.522	-0.002	2821538	2.00	1.90	
2	3.627	3.628	-0.001	2665284	2.00	1.90	
2	3.770	3.771	-0.001	3395828	2.00	1.95	
2	3.818	3.819	-0.001	2595520	2.00	1.97	
2	4.027	4.028	-0.001	2973400	2.00	1.95	
		Average of Peak Amounts =				1.93	
						RPD = 5.62	

Reagents:

1248w/IS@ 2.0_00007 Amount Added: 1.00 Units: mL

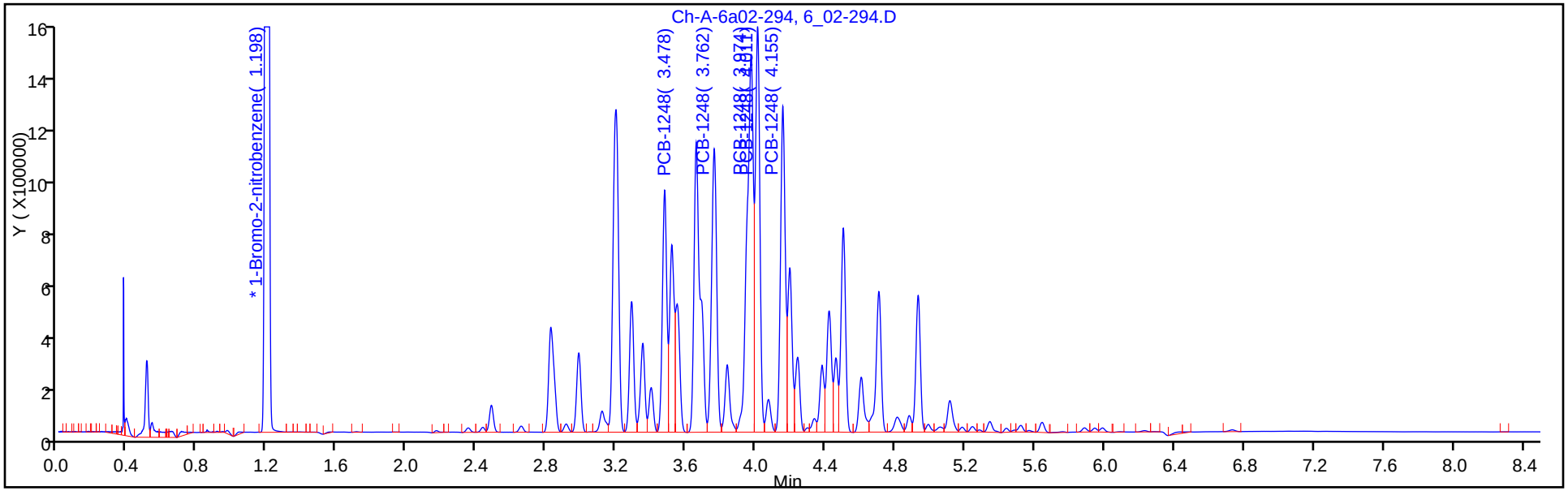
Report Date: 30-Oct-2017 12:27:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

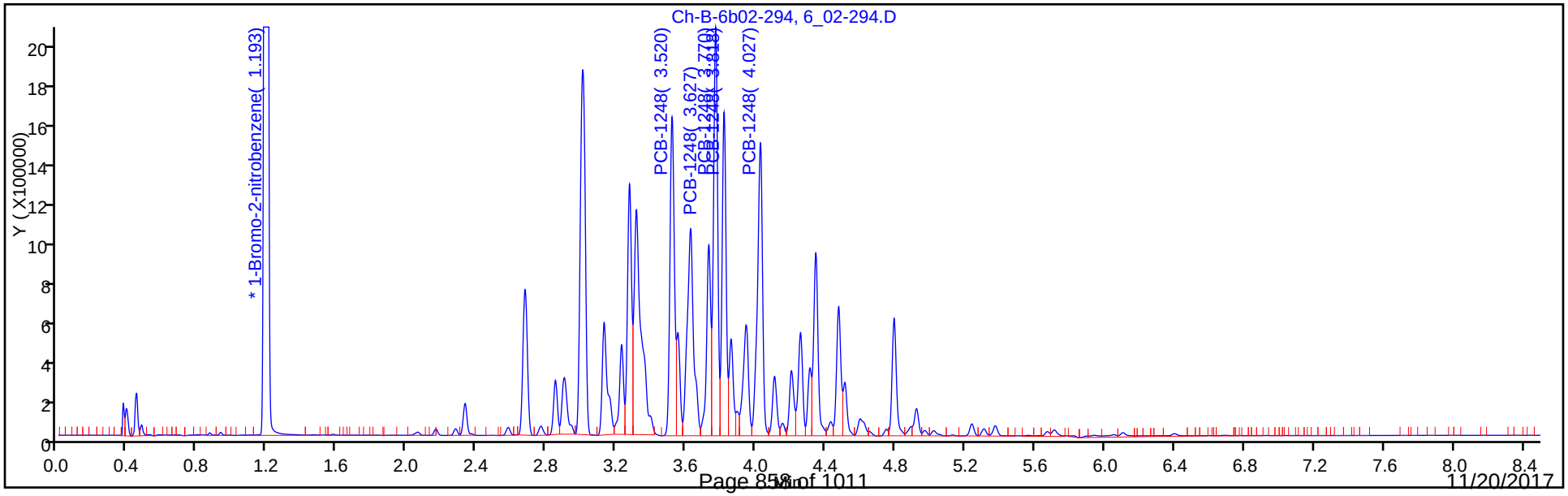
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-294.D

Injection Date:	28-Oct-2017 21:10:44	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-295.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Oct-2017 21:27:14 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:18 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 12:07:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.197	1.197	0.000	12036884	0.5000	0.5000	
2	1.193	1.193	0.000	17600513	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							
1	3.477	3.477	0.000	351332	0.5000	0.5000	a
1	3.761	3.761	0.000	462552	0.5000	0.5000	a
1	3.973	3.973	0.000	769192	0.5000	0.5000	a
1	4.009	4.009	0.000	580572	0.5000	0.5000	a
1	4.154	4.154	0.000	487063	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
2	3.521	3.521	0.000	695247	0.5000	0.5000	a
2	3.628	3.628	0.000	658550	0.5000	0.5000	a
2	3.771	3.771	0.000	816573	0.5000	0.5000	a
2	3.818	3.818	0.000	618098	0.5000	0.5000	a
2	4.026	4.026	0.000	714519	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

1248w/IS@ 0.5_00015 Amount Added: 1.00 Units: mL

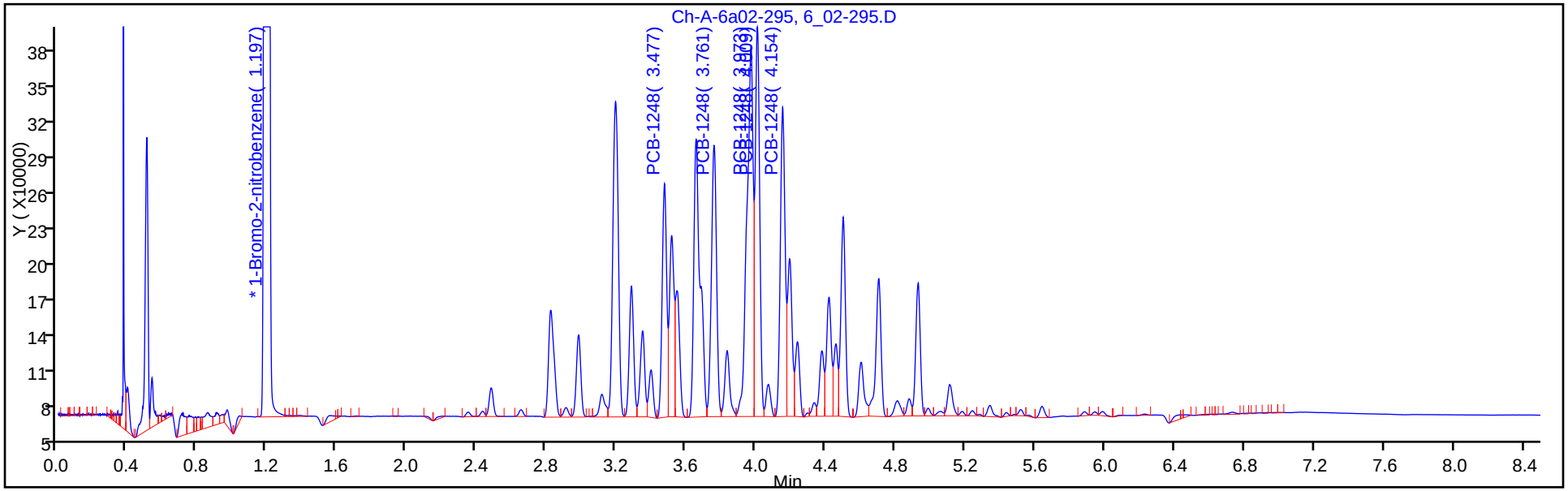
Report Date: 30-Oct-2017 12:27:19 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

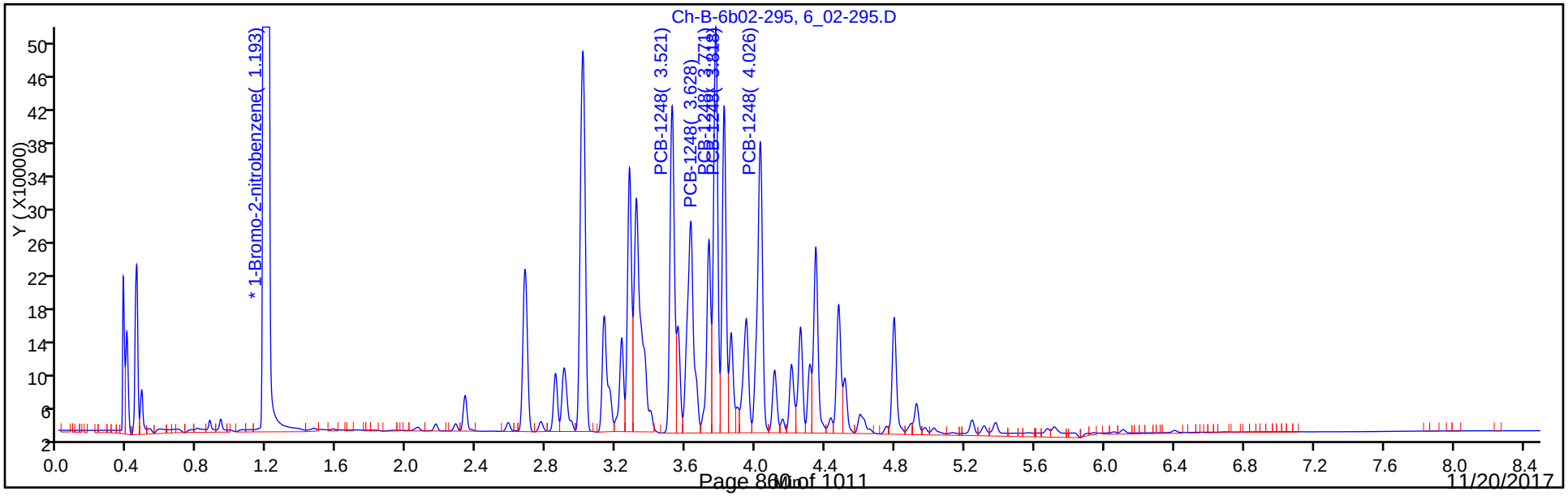
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-295.D

Injection Date:	28-Oct-2017 21:27:14	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Oct-2017 21:43:14 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 12:27:23 Calib Date: 28-Oct-2017 21:43:14
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 12:10:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.197	1.197	0.000	12698709	0.5000	0.5000	
2	1.193	1.193	0.000	18342880	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							M
1	3.479	3.479	0.000	13927	0.0200	0.0188	M
1	3.763	3.763	0.000	21126	0.0200	0.0216	M
1	3.973	3.973	0.000	34178	0.0200	0.0211	M
1	4.012	4.012	0.000	21826	0.0200	0.0178	M
1	4.158	4.158	0.000	19876	0.0200	0.0193	M
		Average of Peak Amounts =				0.0197	
2	3.522	3.522	0.000	36994	0.0200	0.0255	
2	3.628	3.628	0.000	31703	0.0200	0.0231	
2	3.771	3.771	0.000	41475	0.0200	0.0244	
2	3.819	3.819	0.000	30727	0.0200	0.0239	
2	4.028	4.028	0.000	32010	0.0200	0.0215	
		Average of Peak Amounts =				0.0237	
						RPD = 18.14	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00007 Amount Added: 1.00 Units: mL

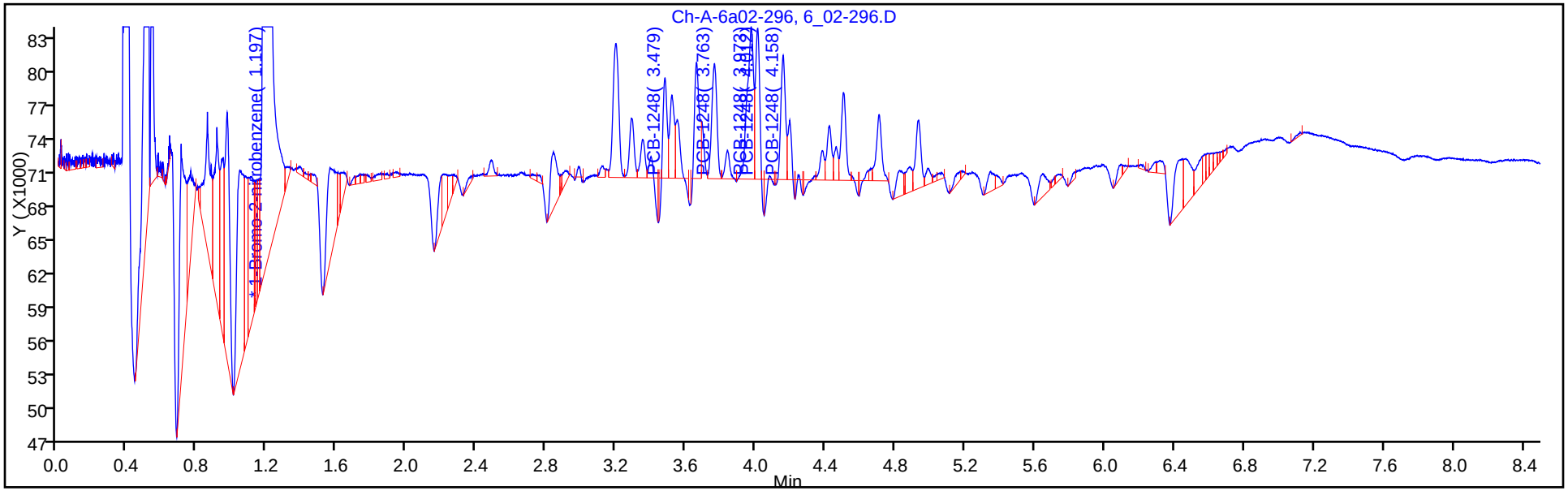
Report Date: 30-Oct-2017 12:27:23 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

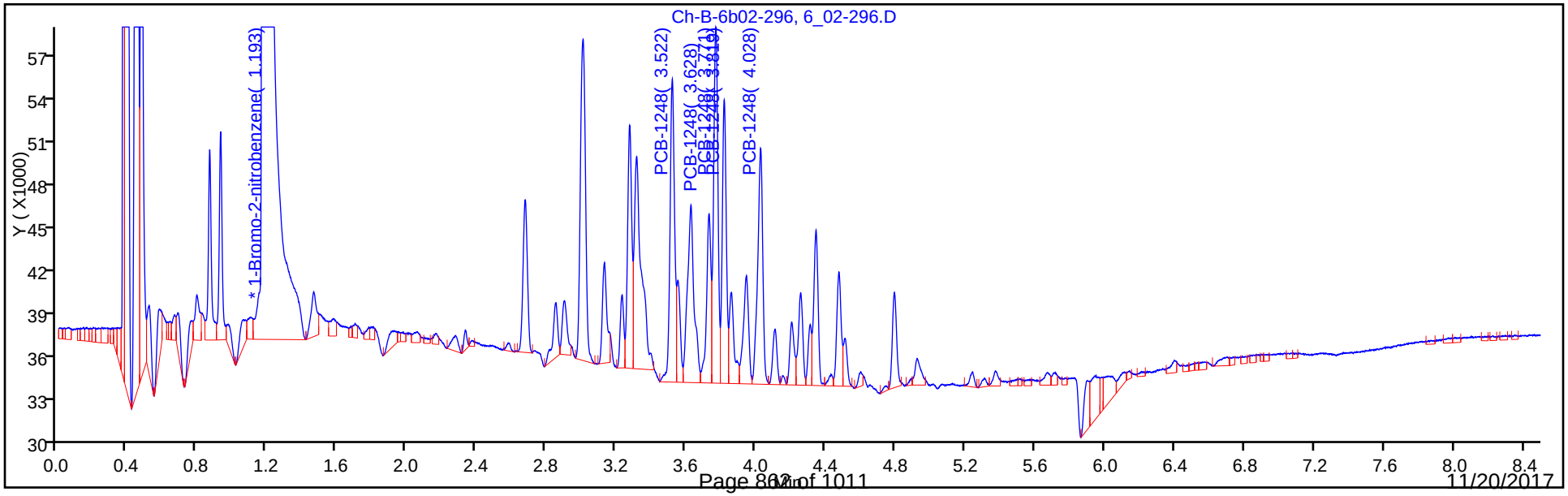
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171028-66804.b\6_02-296.D

Injection Date:	28-Oct-2017 21:43:14	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384635

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:11 Calibration End Date: 10/30/2017 14:43 Calibration ID: 31863

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384635/6	6_02-303.D
Level 2	IC 480-384635/5	6_02-302.D
Level 3	IC 480-384635/4	6_02-301.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	+++++	0.0750	+++++			Ave		0.0750						20.0			
PCB-1242 Peak 2	+++++	0.0282	+++++			Ave		0.0282						20.0			
PCB-1242 Peak 3	+++++	0.0379	+++++			Ave		0.0379						20.0			
PCB-1242 Peak 4	+++++	0.0266	+++++			Ave		0.0266						20.0			
PCB-1242 Peak 5	+++++	0.0266	+++++			Ave		0.0266						20.0			
PCB-1268 Peak 1	+++++	0.1516	+++++			Ave		0.1516						20.0			
PCB-1268 Peak 2	+++++	0.1367	+++++			Ave		0.1367						20.0			
PCB-1268 Peak 3	+++++	0.1101	+++++			Ave		0.1101						20.0			
PCB-1268 Peak 4	0.0308	0.0398	+++++			Ave		0.0353				18.1		20.0			
PCB-1268 Peak 5	+++++	0.3537	+++++			Ave		0.3537						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384635

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:11 Calibration End Date: 10/30/2017 14:43 Calibration ID: 31863

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384635/6	6_02-303.D
Level 2	IC 480-384635/5	6_02-302.D
Level 3	IC 480-384635/4	6_02-301.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Ave	+++++	982332	+++++			+++++	0.500	+++++		
PCB-1242 Peak 2	BNB	Ave	+++++	368910	+++++			+++++	0.500	+++++		
PCB-1242 Peak 3	BNB	Ave	+++++	496277	+++++			+++++	0.500	+++++		
PCB-1242 Peak 4	BNB	Ave	+++++	347619	+++++			+++++	0.500	+++++		
PCB-1242 Peak 5	BNB	Ave	+++++	348196	+++++			+++++	0.500	+++++		
PCB-1268 Peak 1	BNB	Ave	+++++	1984213	+++++			+++++	0.500	+++++		
PCB-1268 Peak 2	BNB	Ave	+++++	1789727	+++++			+++++	0.500	+++++		
PCB-1268 Peak 3	BNB	Ave	+++++	1441112	+++++			+++++	0.500	+++++		
PCB-1268 Peak 4	BNB	Ave	15659	521618	+++++			0.0200	0.500	+++++		
PCB-1268 Peak 5	BNB	Ave	+++++	4630297	+++++			+++++	0.500	+++++		

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-301.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Oct-2017 14:11:11 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 15:16:54 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 14:45:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.195	1.196	-0.001	13211100	0.5000	0.5000	
2	1.191	1.191	0.000	19081812	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							M
1	3.201	3.203	-0.001	3783976	2.00	1.91	
1	3.288	3.290	-0.002	1371613	2.00	1.84	
1	3.975	3.978	-0.003	1923979	2.00	1.92	
1	4.012	4.013	-0.001	1321040	2.00	1.88	
1	4.158	4.160	-0.002	1347731	2.00	1.92	
		Average of Peak Amounts =				1.89	
2	3.010	3.010	0.000	5337025	2.00	1.79	M
2	3.523	3.523	-0.001	2411350	2.00	1.76	M
2	3.771	3.773	-0.001	1904358	2.00	1.80	M
2	3.820	3.821	-0.001	1597918	2.00	1.81	M
2	4.029	4.030	-0.001	1466215	2.00	1.71	M
		Average of Peak Amounts =				1.77	
						RPD = 6.63	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							M
1	5.951	5.953	-0.002	8276142	2.00	2.07	M
1	5.993	5.996	-0.004	7453434	2.00	2.06	M
1	6.223	6.227	-0.004	5862141	2.00	2.02	M
1	6.388	6.391	-0.003	2276270	2.00	2.44	M
1	6.740	6.743	-0.003	19781377	2.00	2.12	M
		Average of Peak Amounts =				2.14	
2	5.674	5.676	-0.002	8527624	2.00	1.92	M
2	5.713	5.715	-0.002	8140648	2.00	1.93	M
2	5.943	5.944	-0.001	6505444	2.00	1.89	M
2	6.109	6.111	-0.002	2745832	2.00	1.84	M
2	6.406	6.407	-0.001	21831112	2.00	1.95	M
		Average of Peak Amounts =				1.91	
						RPD = 11.47	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@2.0_00008 Amount Added: 1.00 Units: mL

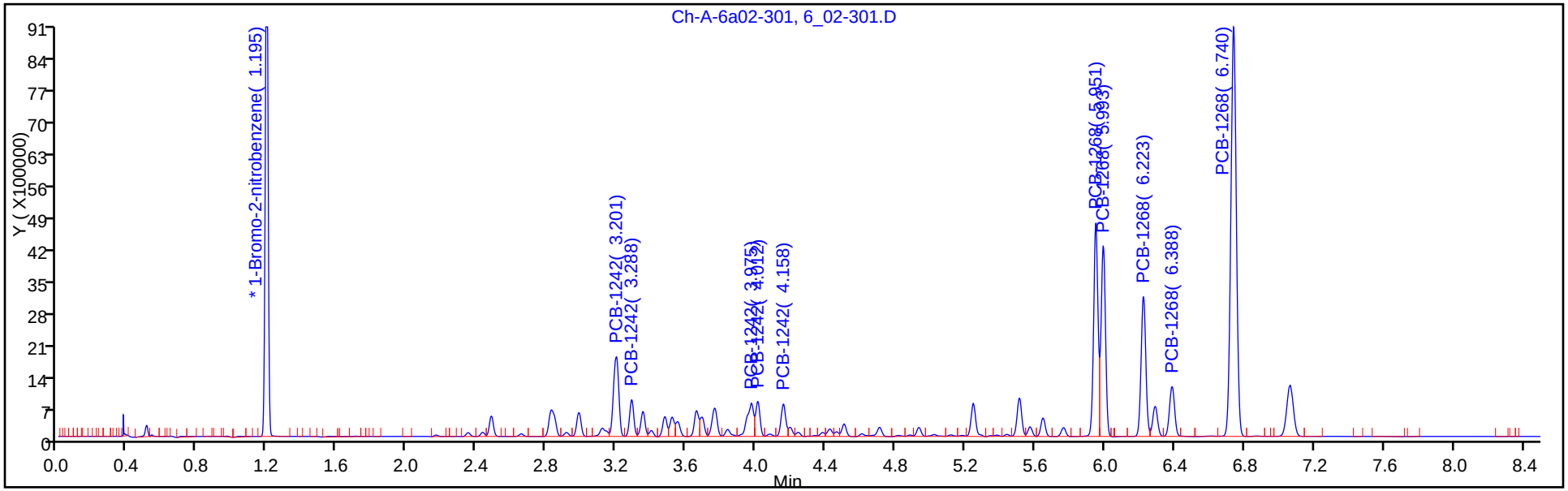
Report Date: 30-Oct-2017 15:16:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

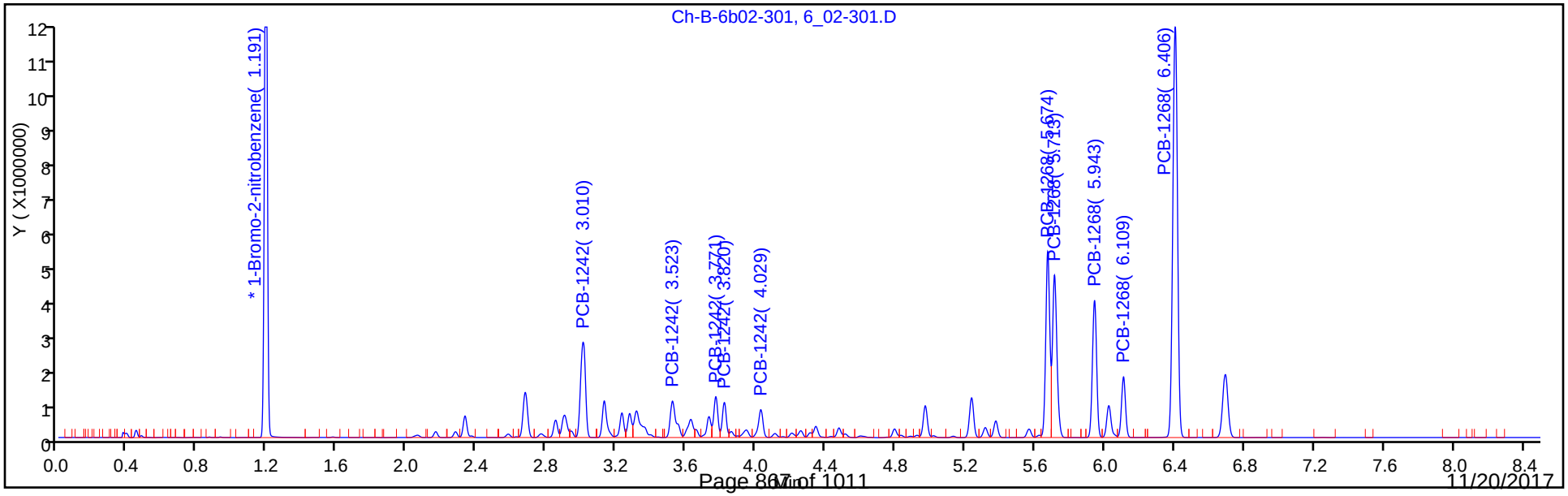
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-301.D

Injection Date:	30-Oct-2017 14:11:11	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Oct-2017 15:16:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-301.D

Injection Date: 30-Oct-2017 14:11:11 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

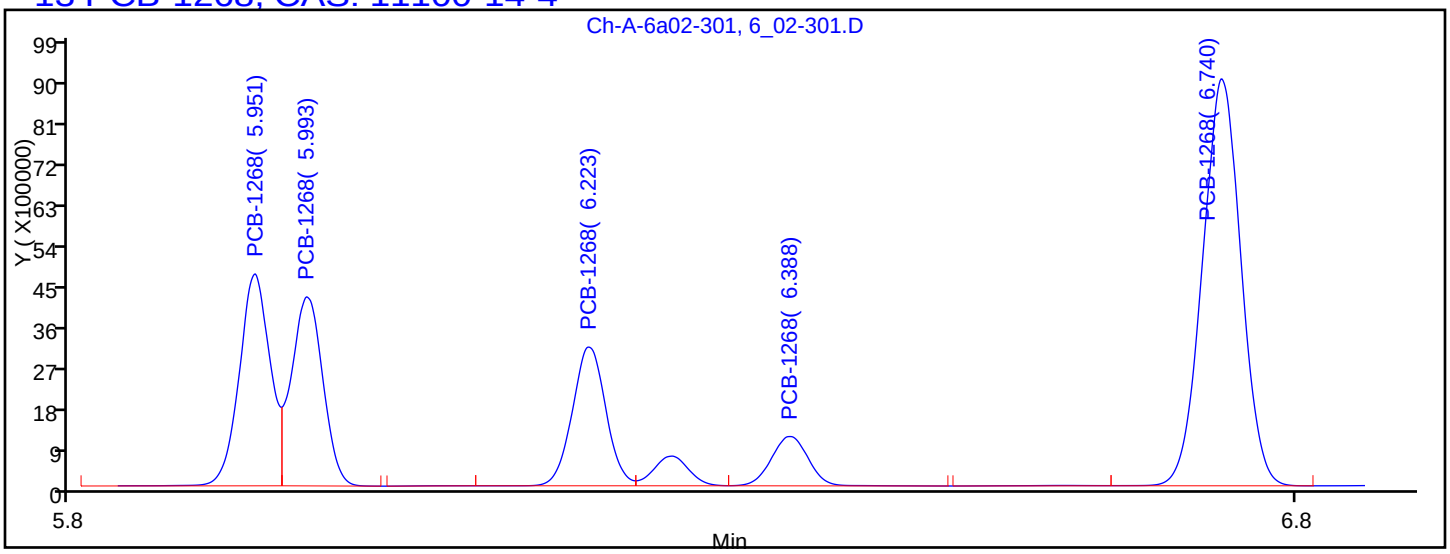
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

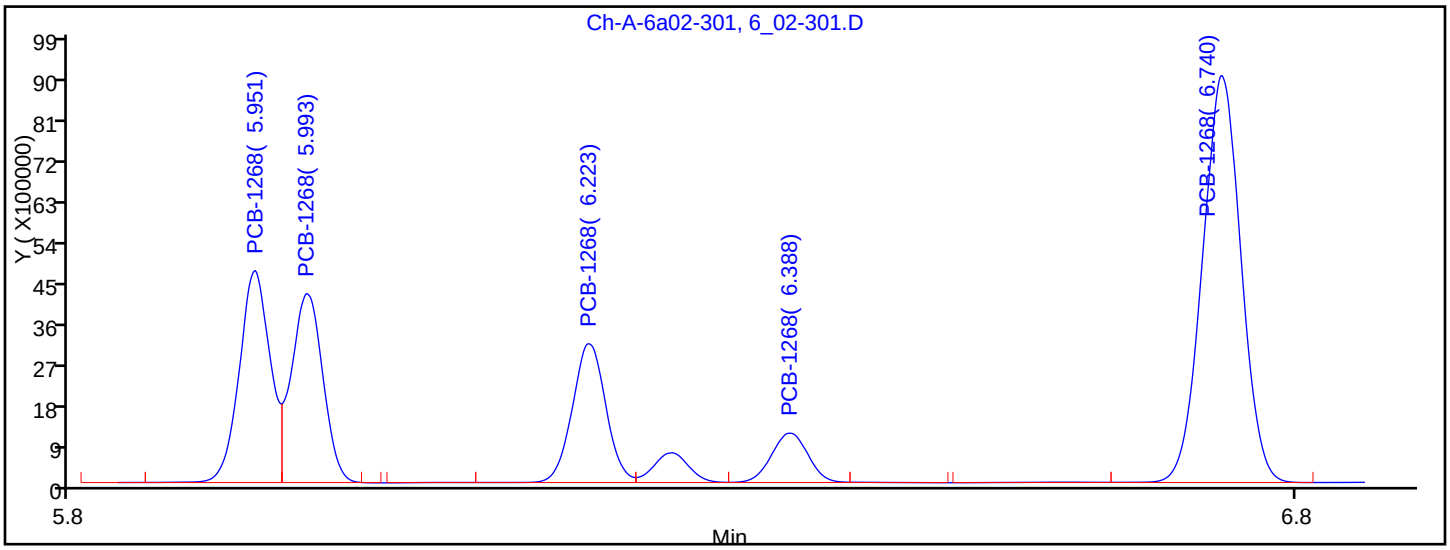
Column: Detector Ch-A-7A136

13 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.951	Response = 8286087
5.993	Response = 7462920
6.223	Response = 5854412
6.388	Response = 2295563
6.740	Response = 19778348



Manual Integration Results

5.951	Response = 8276142	M
5.993	Response = 7453434	M
6.223	Response = 5862141	M
6.388	Response = 2276270	M
6.740	Response = 19781377	M

Reviewer: owenj, 30-Oct-2017 14:28:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-302.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Oct-2017 14:27:21 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 15:16:50 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 15:07:47

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.196	1.196	0.000	13092179	0.5000	0.5000	
2	1.191	1.191	0.000	18799496	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							
1	3.203	3.203	0.000	982332	0.5000	0.5000	
1	3.290	3.290	0.000	368910	0.5000	0.5000	
1	3.978	3.978	0.000	496277	0.5000	0.5000	
1	4.013	4.013	0.000	347619	0.5000	0.5000	
1	4.160	4.160	0.000	348196	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.010	3.010	0.000	1470131	0.5000	0.5000	
2	3.523	3.523	0.000	676561	0.5000	0.5000	
2	3.773	3.773	0.000	521505	0.5000	0.5000	
2	3.821	3.821	0.000	434046	0.5000	0.5000	
2	4.030	4.030	0.000	422811	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							
1	5.953	5.953	0.000	1984213	0.5000	0.5000	
1	5.996	5.996	0.000	1789727	0.5000	0.5000	
1	6.227	6.227	0.000	1441112	0.5000	0.5000	
1	6.391	6.391	0.000	521618	0.5000	0.5640	
1	6.743	6.743	0.000	4630297	0.5000	0.5000	
		Average of Peak Amounts =				0.5128	
2	5.676	5.676	0.000	2189711	0.5000	0.5000	
2	5.715	5.715	0.000	2073421	0.5000	0.5000	
2	5.944	5.944	0.000	1692761	0.5000	0.5000	
2	6.111	6.111	0.000	734363	0.5000	0.5000	
2	6.407	6.407	0.000	5505220	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 2.53	

Reagents:

42-68w/IS@0.5_00015 Amount Added: 1.00 Units: mL

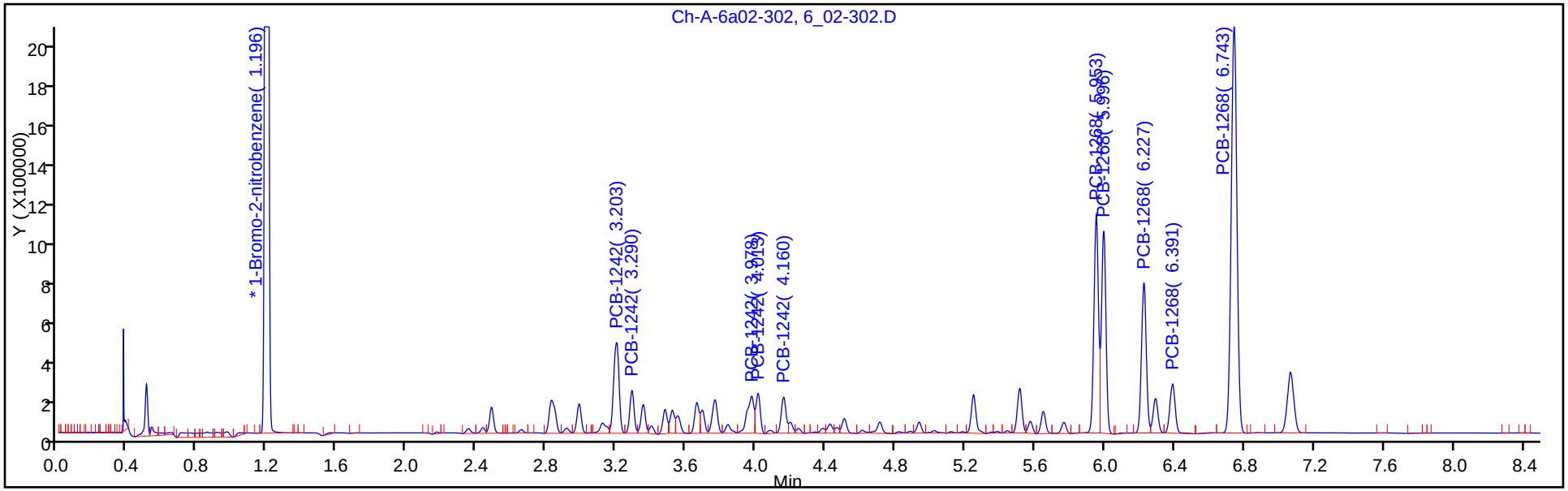
Report Date: 30-Oct-2017 15:16:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

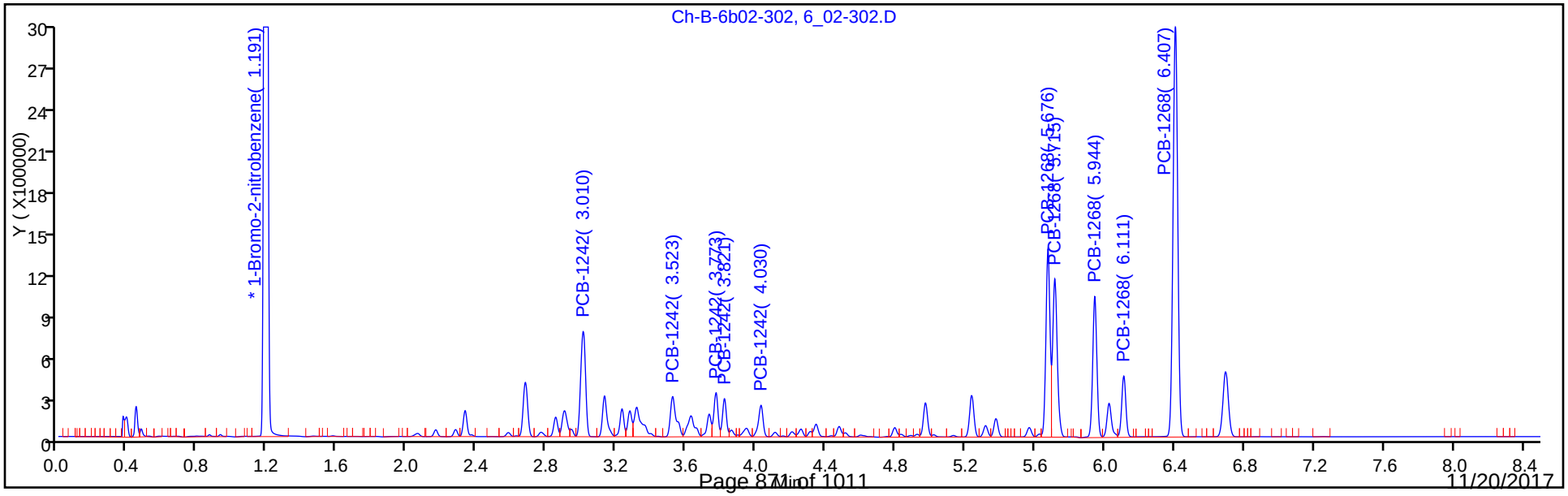
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-302.D

Injection Date:	30-Oct-2017 14:27:21	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Oct-2017 14:43:20 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 15:16:45 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 15:02:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.197	1.197	0.000	12708435	0.5000	0.5000	
2	1.193	1.193	0.000	18319015	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							M
1	3.203	3.203	0.000	40519	0.0200	0.0212	
1	3.291	3.291	0.000	16423	0.0200	0.0229	
1	3.979	3.979	0.000	20270	0.0200	0.0210	
1	4.013	4.013	0.000	15767	0.0200	0.0234	
1	4.161	4.161	0.000	14195	0.0200	0.0210	
		Average of Peak Amounts =				0.0219	
2	3.013	3.013	0.000	64168	0.0200	0.0224	M
2	3.526	3.526	0.000	32501	0.0200	0.0246	
2	3.774	3.774	0.000	24481	0.0200	0.0241	
2	3.823	3.823	0.000	19496	0.0200	0.0230	
2	4.033	4.033	0.000	18050	0.0200	0.0219	
		Average of Peak Amounts =				0.0232	
						RPD = 5.77	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							M
1	5.953	5.953	0.000	78388	0.0200	0.0203	
1	5.996	5.996	0.000	75156	0.0200	0.0216	
1	6.226	6.226	0.000	55748	0.0200	0.0199	
1	6.395	6.395	0.000	15659	0.0200	0.0174	
1	6.745	6.745	0.000	180937	0.0200	0.0201	
		Average of Peak Amounts =				0.0199	
2	5.678	5.678	0.000	94832	0.0200	0.0222	M
2	5.717	5.717	0.000	88913	0.0200	0.0220	M
2	5.946	5.946	0.000	74856	0.0200	0.0227	M
2	6.113	6.113	0.000	35351	0.0200	0.0247	M
2	6.408	6.408	0.000	218693	0.0200	0.0204	
		Average of Peak Amounts =				0.0224	
						RPD = 11.84	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00007 Amount Added: 1.00 Units: mL

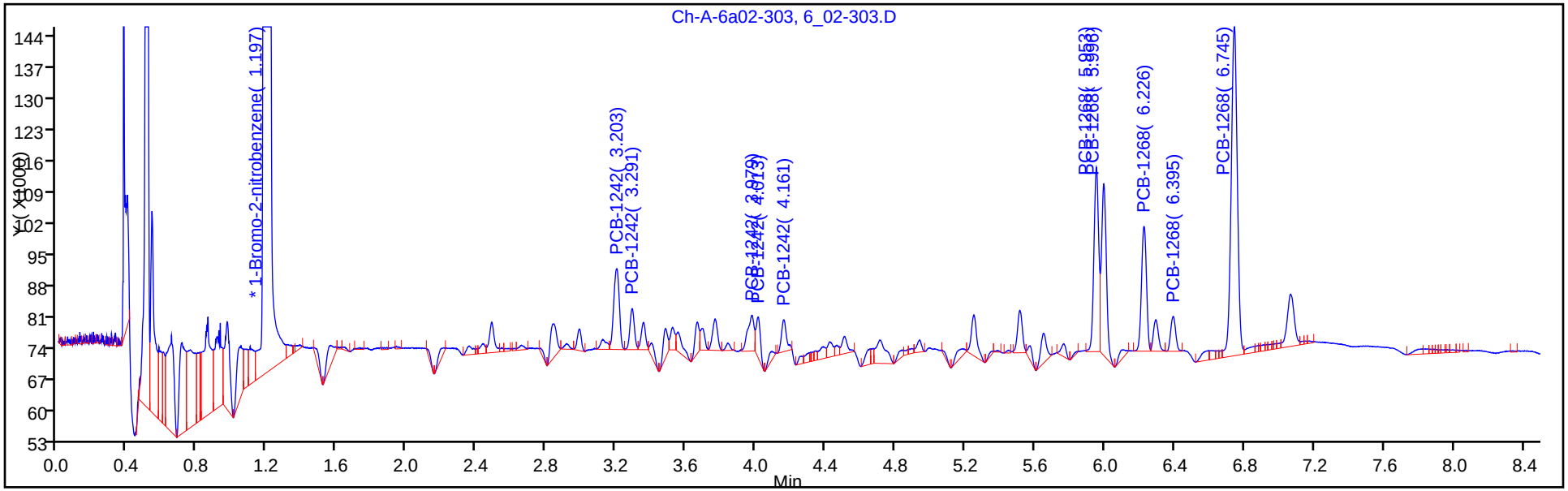
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TestAmerica Buffalo

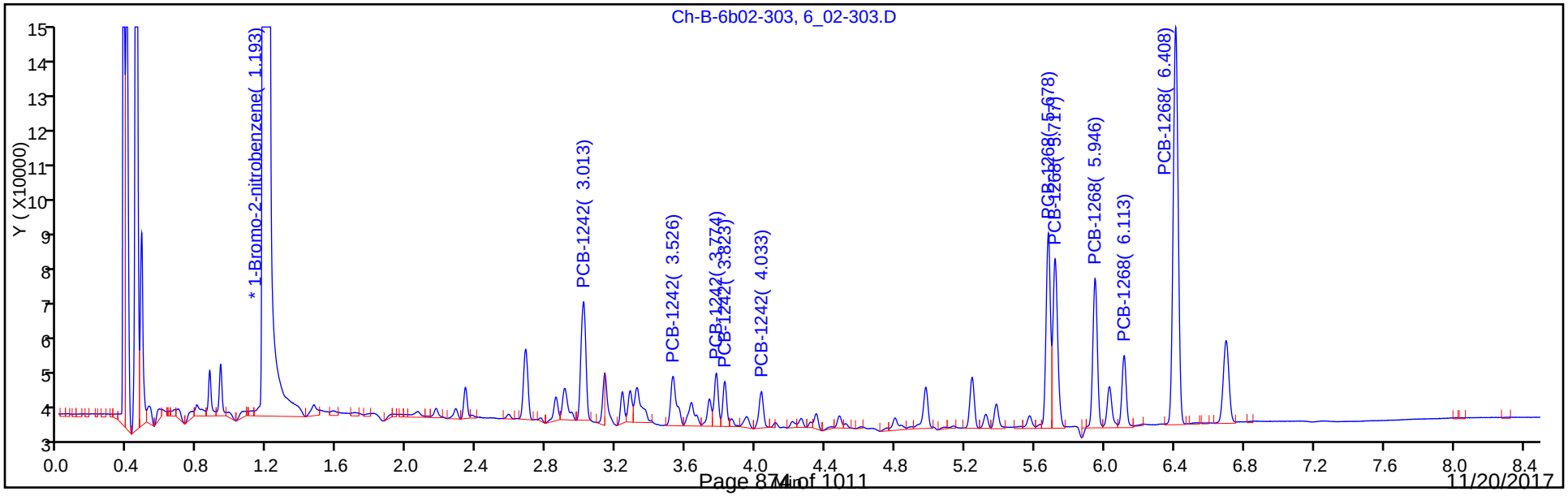
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Injection Date:	30-Oct-2017 14:43:20	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384635

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:11 Calibration End Date: 10/30/2017 14:43 Calibration ID: 31864

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384635/6	6_02-303.D
Level 2	IC 480-384635/5	6_02-302.D
Level 3	IC 480-384635/4	6_02-301.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	+++++	0.0782	+++++			Ave		0.0782						20.0			
PCB-1242 Peak 2	+++++	0.0360	+++++			Ave		0.0360						20.0			
PCB-1242 Peak 3	+++++	0.0277	+++++			Ave		0.0277						20.0			
PCB-1242 Peak 4	+++++	0.0231	+++++			Ave		0.0231						20.0			
PCB-1242 Peak 5	+++++	0.0225	+++++			Ave		0.0225						20.0			
PCB-1268 Peak 1	+++++	0.1165	+++++			Ave		0.1165						20.0			
PCB-1268 Peak 2	+++++	0.1103	+++++			Ave		0.1103						20.0			
PCB-1268 Peak 3	+++++	0.0900	+++++			Ave		0.0900						20.0			
PCB-1268 Peak 4	+++++	0.0391	+++++			Ave		0.0391						20.0			
PCB-1268 Peak 5	+++++	0.2928	+++++			Ave		0.2928						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1 Analy Batch No.: 384635

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:11 Calibration End Date: 10/30/2017 14:43 Calibration ID: 31864

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-384635/6	6_02-303.D
Level 2	IC 480-384635/5	6_02-302.D
Level 3	IC 480-384635/4	6_02-301.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Ave	+++++	1470131	+++++			+++++	0.500	+++++		
PCB-1242 Peak 2	BNB	Ave	+++++	676561	+++++			+++++	0.500	+++++		
PCB-1242 Peak 3	BNB	Ave	+++++	521505	+++++			+++++	0.500	+++++		
PCB-1242 Peak 4	BNB	Ave	+++++	434046	+++++			+++++	0.500	+++++		
PCB-1242 Peak 5	BNB	Ave	+++++	422811	+++++			+++++	0.500	+++++		
PCB-1268 Peak 1	BNB	Ave	+++++	2189711	+++++			+++++	0.500	+++++		
PCB-1268 Peak 2	BNB	Ave	+++++	2073421	+++++			+++++	0.500	+++++		
PCB-1268 Peak 3	BNB	Ave	+++++	1692761	+++++			+++++	0.500	+++++		
PCB-1268 Peak 4	BNB	Ave	+++++	734363	+++++			+++++	0.500	+++++		
PCB-1268 Peak 5	BNB	Ave	+++++	5505220	+++++			+++++	0.500	+++++		

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-301.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Oct-2017 14:11:11 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 15:16:54 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 14:45:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.195	1.196	-0.001	13211100	0.5000	0.5000	
2	1.191	1.191	0.000	19081812	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							M
1	3.201	3.203	-0.001	3783976	2.00	1.91	
1	3.288	3.290	-0.002	1371613	2.00	1.84	
1	3.975	3.978	-0.003	1923979	2.00	1.92	
1	4.012	4.013	-0.001	1321040	2.00	1.88	
1	4.158	4.160	-0.002	1347731	2.00	1.92	
		Average of Peak Amounts =				1.89	
2	3.010	3.010	0.000	5337025	2.00	1.79	M
2	3.523	3.523	-0.001	2411350	2.00	1.76	M
2	3.771	3.773	-0.001	1904358	2.00	1.80	M
2	3.820	3.821	-0.001	1597918	2.00	1.81	M
2	4.029	4.030	-0.001	1466215	2.00	1.71	M
		Average of Peak Amounts =				1.77	
						RPD = 6.63	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							M
1	5.951	5.953	-0.002	8276142	2.00	2.07	M
1	5.993	5.996	-0.004	7453434	2.00	2.06	M
1	6.223	6.227	-0.004	5862141	2.00	2.02	M
1	6.388	6.391	-0.003	2276270	2.00	2.44	M
1	6.740	6.743	-0.003	19781377	2.00	2.12	M
		Average of Peak Amounts =				2.14	
2	5.674	5.676	-0.002	8527624	2.00	1.92	M
2	5.713	5.715	-0.002	8140648	2.00	1.93	M
2	5.943	5.944	-0.001	6505444	2.00	1.89	M
2	6.109	6.111	-0.002	2745832	2.00	1.84	M
2	6.406	6.407	-0.001	21831112	2.00	1.95	M
		Average of Peak Amounts =				1.91	
						RPD = 11.47	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@2.0_00008 Amount Added: 1.00 Units: mL

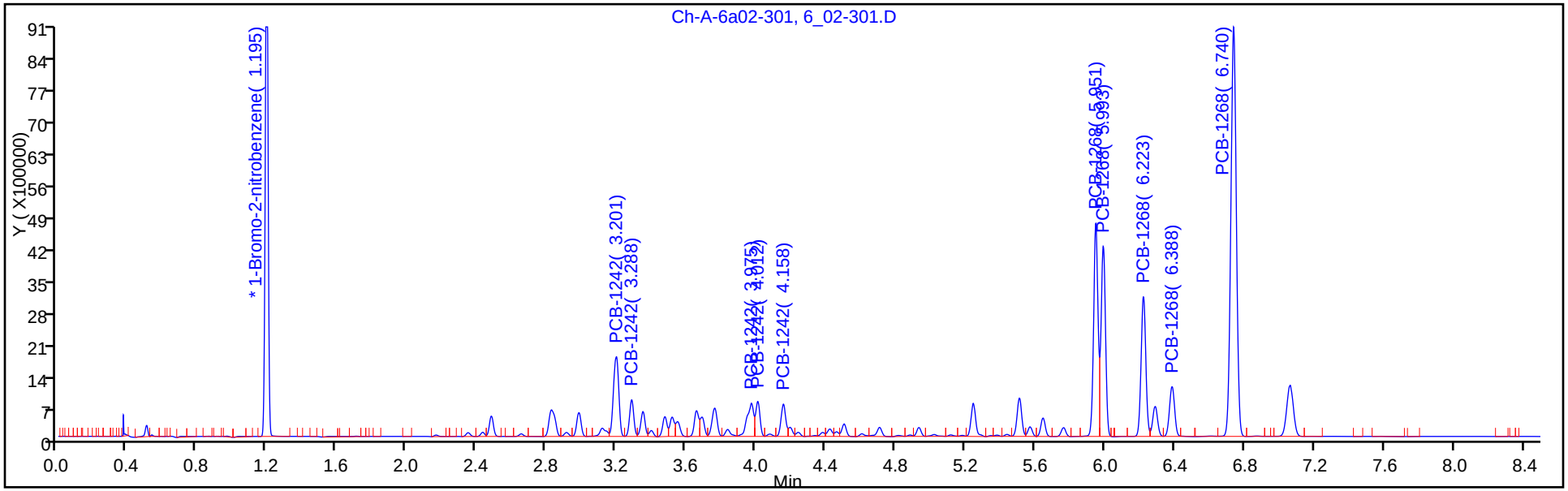
Report Date: 30-Oct-2017 15:16:56 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

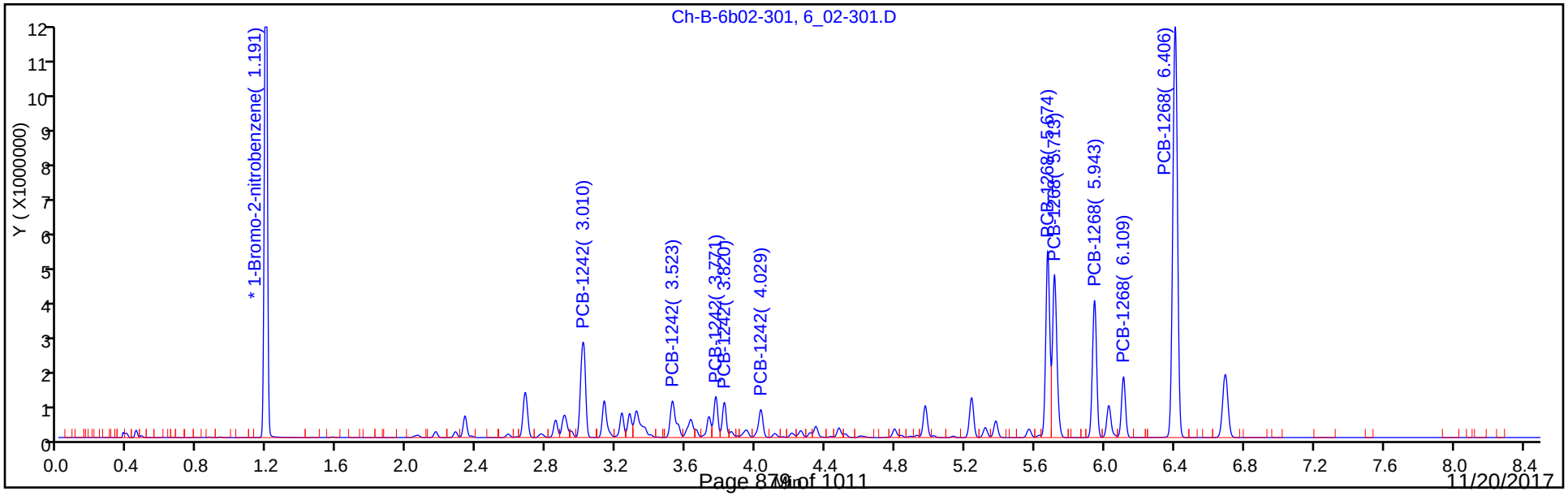
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-301.D

Injection Date:	30-Oct-2017 14:11:11	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Oct-2017 15:16:56 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-301.D

Injection Date: 30-Oct-2017 14:11:11 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

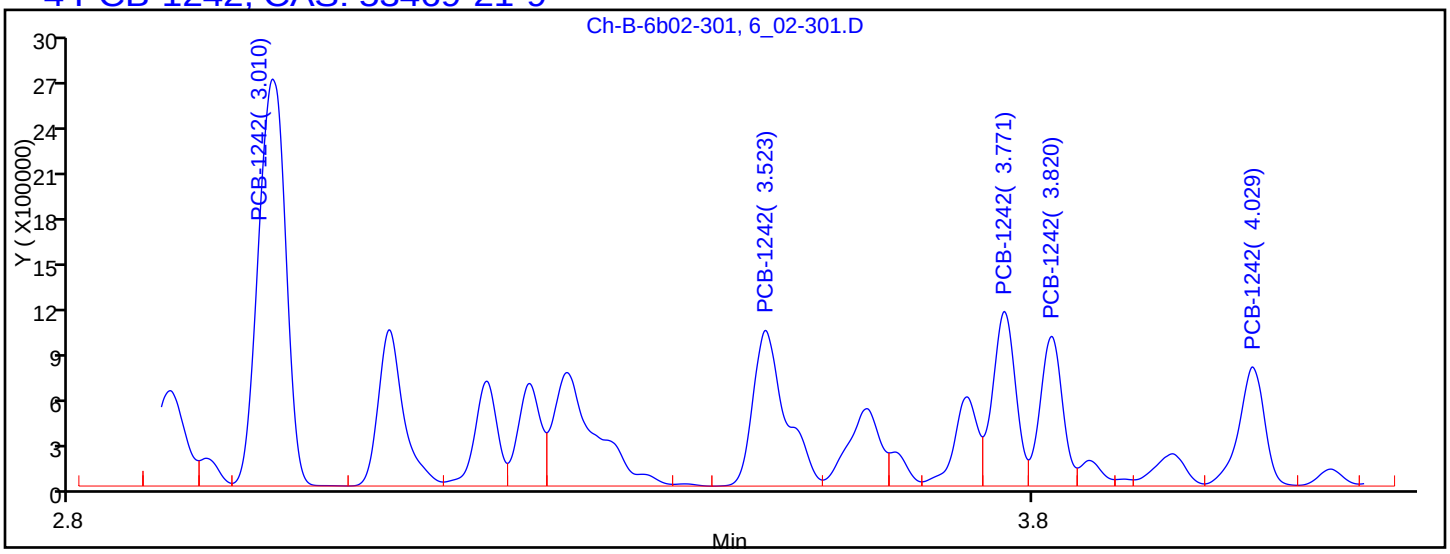
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

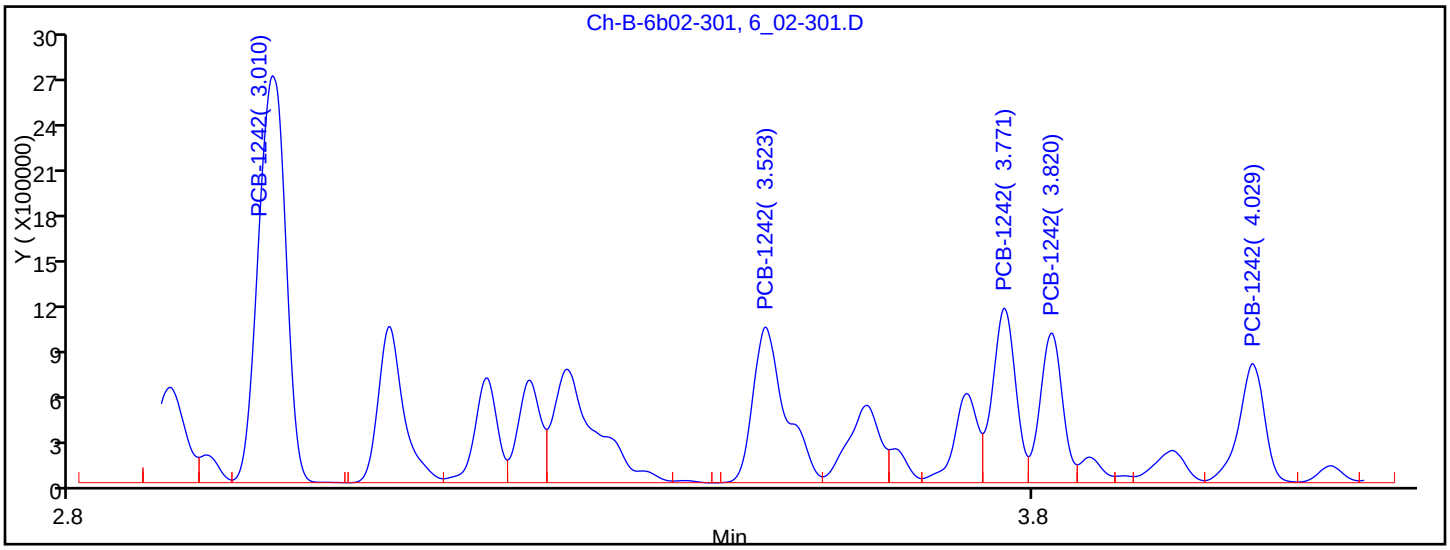
Column: Detector Ch-B-7b136

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.010	Response = 5340736
3.523	Response = 2416086
3.771	Response = 1905061
3.820	Response = 1598648
4.029	Response = 1468149



Manual Integration Results

3.010	Response = 5337025	M
3.523	Response = 2411350	M
3.771	Response = 1904358	M
3.820	Response = 1597918	M
4.029	Response = 1466215	M

Reviewer: owenj, 30-Oct-2017 14:27:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 15:16:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-301.D

Injection Date: 30-Oct-2017 14:11:11 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

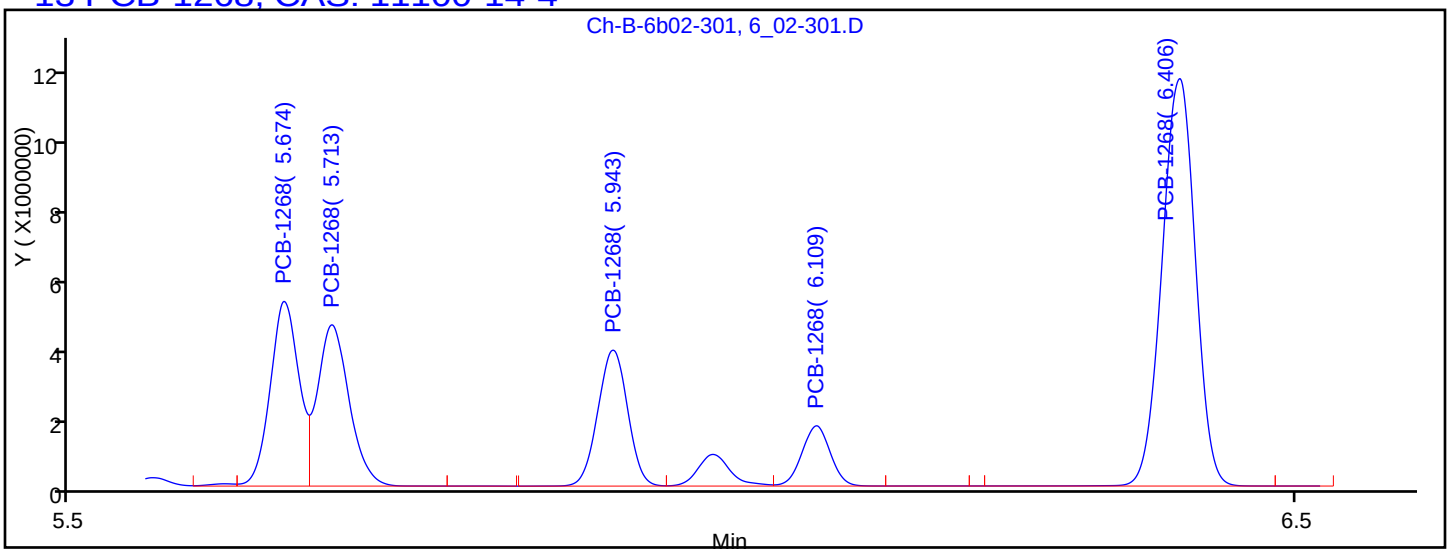
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

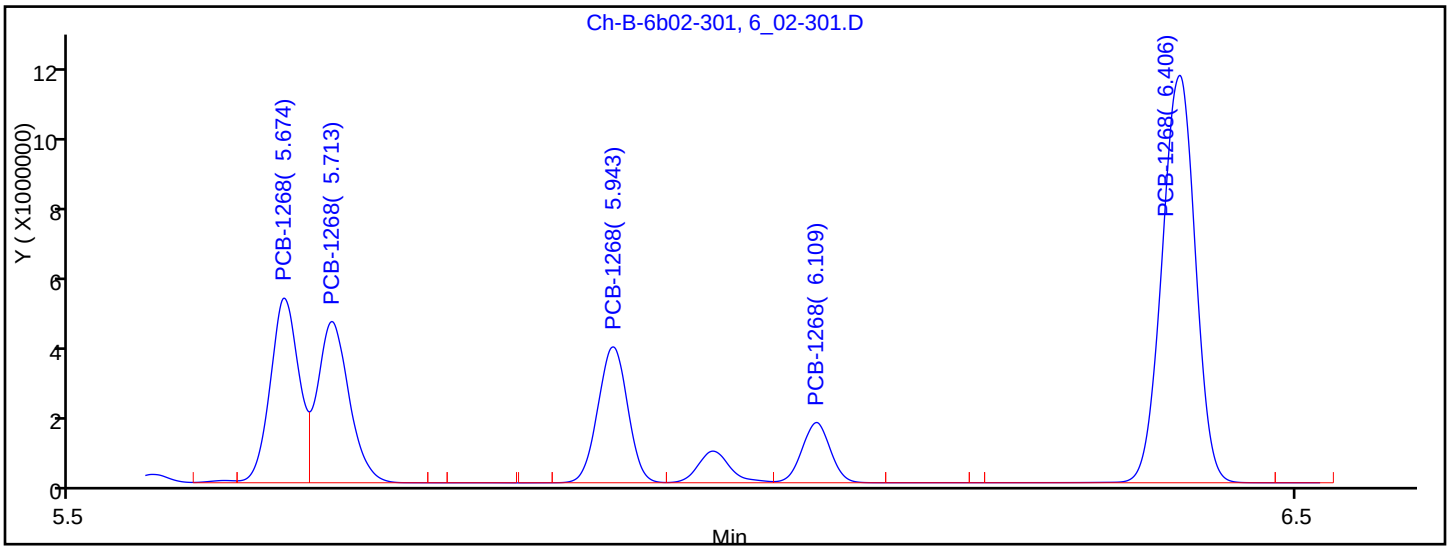
Column: Detector Ch-B-7b136

13 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.674	Response = 8532065
5.713	Response = 8147802
5.943	Response = 6515696
6.109	Response = 2747397
6.406	Response = 21829880



Manual Integration Results

5.674	Response = 8527624	M
5.713	Response = 8140648	M
5.943	Response = 6505444	M
6.109	Response = 2745832	M
6.406	Response = 21831112	M

Reviewer: owenj, 30-Oct-2017 14:27:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-302.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Oct-2017 14:27:21 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 15:16:50 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 15:07:47

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.196	1.196	0.000	13092179	0.5000	0.5000	
2	1.191	1.191	0.000	18799496	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							
1	3.203	3.203	0.000	982332	0.5000	0.5000	
1	3.290	3.290	0.000	368910	0.5000	0.5000	
1	3.978	3.978	0.000	496277	0.5000	0.5000	
1	4.013	4.013	0.000	347619	0.5000	0.5000	
1	4.160	4.160	0.000	348196	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.010	3.010	0.000	1470131	0.5000	0.5000	
2	3.523	3.523	0.000	676561	0.5000	0.5000	
2	3.773	3.773	0.000	521505	0.5000	0.5000	
2	3.821	3.821	0.000	434046	0.5000	0.5000	
2	4.030	4.030	0.000	422811	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							
1	5.953	5.953	0.000	1984213	0.5000	0.5000	
1	5.996	5.996	0.000	1789727	0.5000	0.5000	
1	6.227	6.227	0.000	1441112	0.5000	0.5000	
1	6.391	6.391	0.000	521618	0.5000	0.5640	
1	6.743	6.743	0.000	4630297	0.5000	0.5000	
		Average of Peak Amounts =				0.5128	
2	5.676	5.676	0.000	2189711	0.5000	0.5000	
2	5.715	5.715	0.000	2073421	0.5000	0.5000	
2	5.944	5.944	0.000	1692761	0.5000	0.5000	
2	6.111	6.111	0.000	734363	0.5000	0.5000	
2	6.407	6.407	0.000	5505220	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 2.53	

Reagents:

42-68w/IS@0.5_00015 Amount Added: 1.00 Units: mL

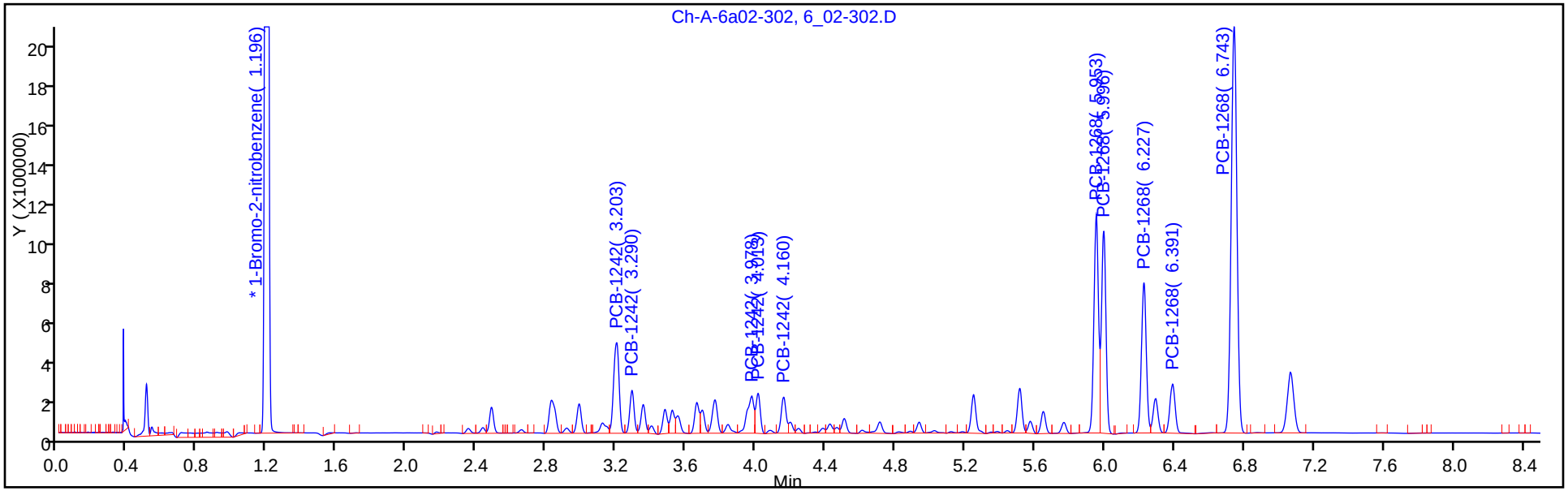
Report Date: 30-Oct-2017 15:16:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

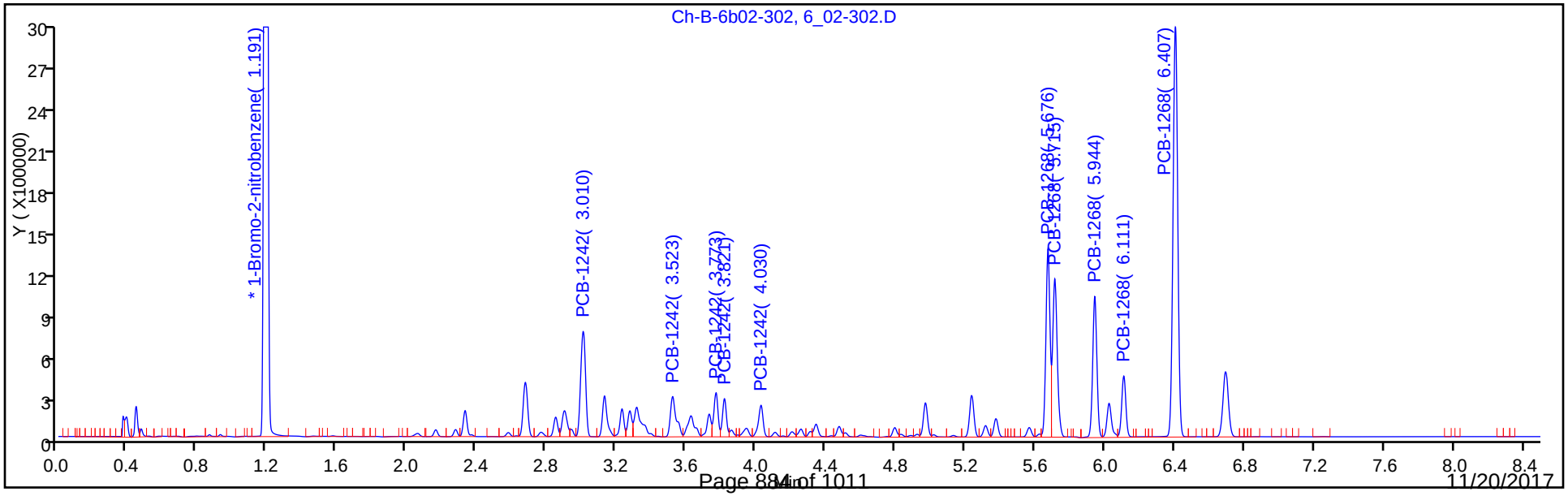
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-302.D

Injection Date:	30-Oct-2017 14:27:21	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Oct-2017 14:43:20 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Oct-2017 15:16:45 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK022

First Level Reviewer: owenj Date: 30-Oct-2017 15:02:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.197	1.197	0.000	12708435	0.5000	0.5000	
2	1.193	1.193	0.000	18319015	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							M
1	3.203	3.203	0.000	40519	0.0200	0.0212	
1	3.291	3.291	0.000	16423	0.0200	0.0229	
1	3.979	3.979	0.000	20270	0.0200	0.0210	
1	4.013	4.013	0.000	15767	0.0200	0.0234	
1	4.161	4.161	0.000	14195	0.0200	0.0210	
		Average of Peak Amounts =				0.0219	
2	3.013	3.013	0.000	64168	0.0200	0.0224	M
2	3.526	3.526	0.000	32501	0.0200	0.0246	
2	3.774	3.774	0.000	24481	0.0200	0.0241	
2	3.823	3.823	0.000	19496	0.0200	0.0230	
2	4.033	4.033	0.000	18050	0.0200	0.0219	
		Average of Peak Amounts =				0.0232	
						RPD = 5.77	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							M
1	5.953	5.953	0.000	78388	0.0200	0.0203	
1	5.996	5.996	0.000	75156	0.0200	0.0216	
1	6.226	6.226	0.000	55748	0.0200	0.0199	
1	6.395	6.395	0.000	15659	0.0200	0.0174	
1	6.745	6.745	0.000	180937	0.0200	0.0201	
		Average of Peak Amounts =				0.0199	
2	5.678	5.678	0.000	94832	0.0200	0.0222	M
2	5.717	5.717	0.000	88913	0.0200	0.0220	M
2	5.946	5.946	0.000	74856	0.0200	0.0227	M
2	6.113	6.113	0.000	35351	0.0200	0.0247	M
2	6.408	6.408	0.000	218693	0.0200	0.0204	
		Average of Peak Amounts =				0.0224	
						RPD = 11.84	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00007 Amount Added: 1.00 Units: mL

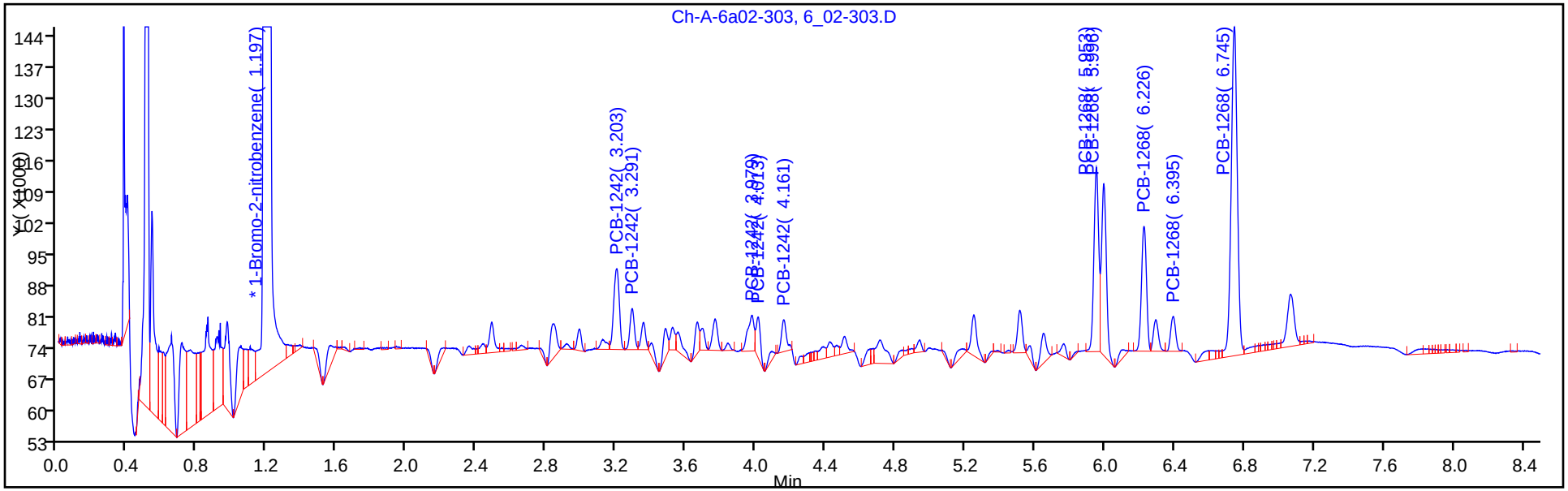
Report Date: 30-Oct-2017 15:16:46 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

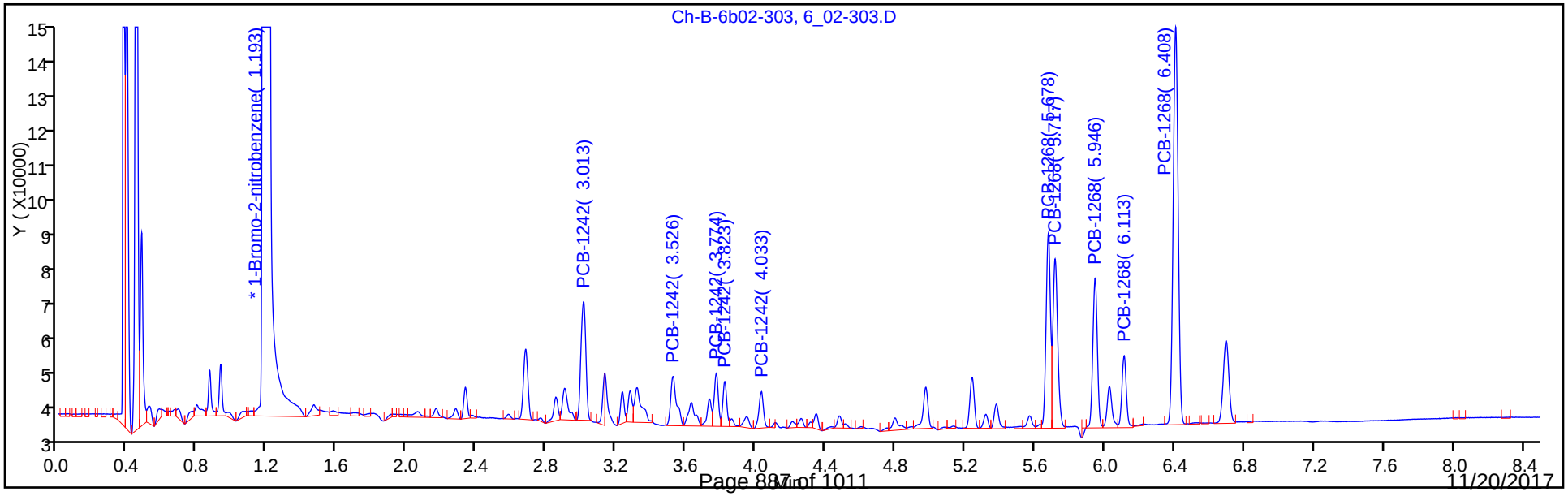
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Injection Date:	30-Oct-2017 14:43:20	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Oct-2017 15:16:46 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Injection Date: 30-Oct-2017 14:43:20 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

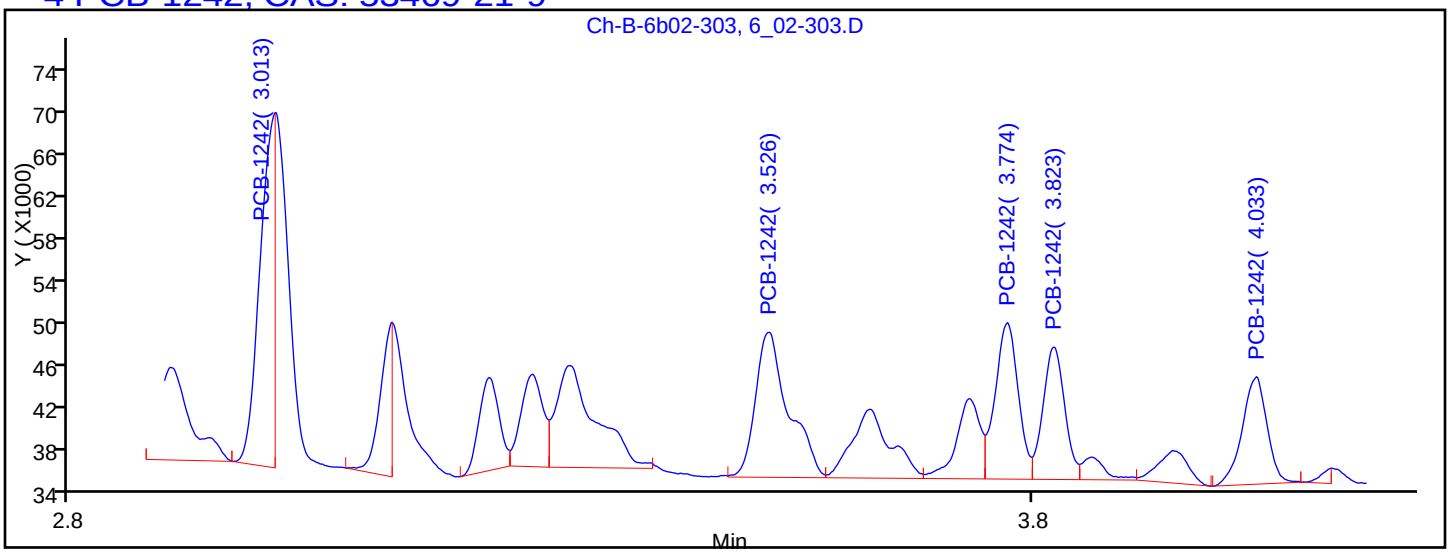
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

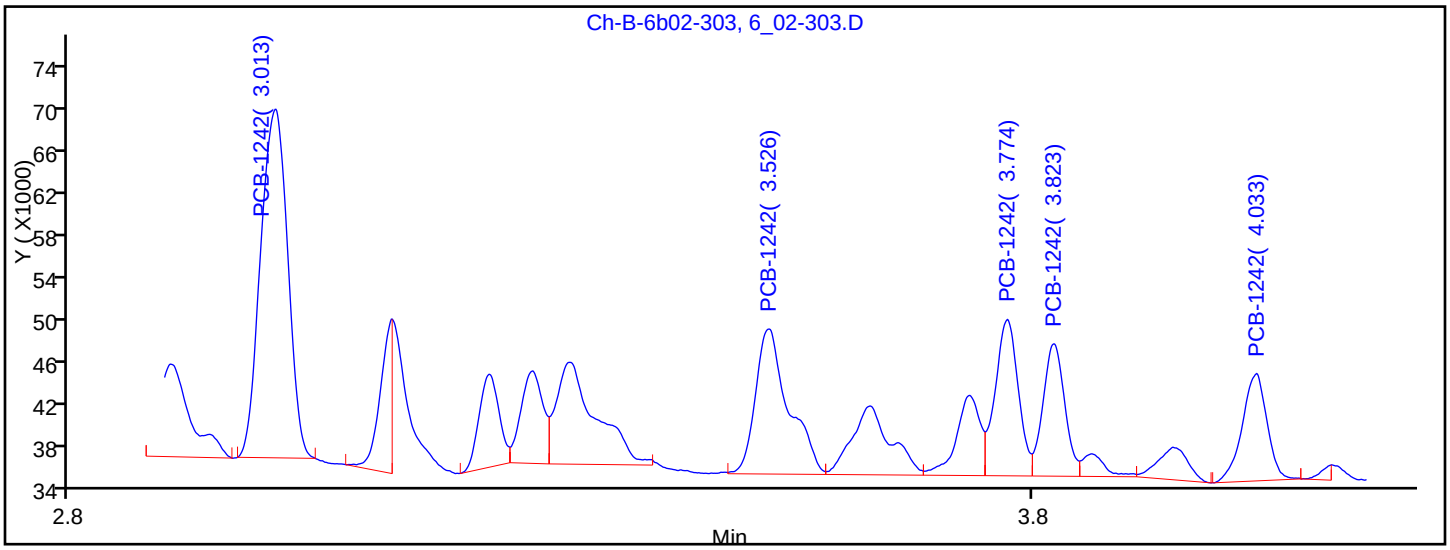
Column: Detector Ch-B-7b136

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.013	Response = 34839
3.526	Response = 32501
3.774	Response = 24481
3.823	Response = 19496
4.033	Response = 18050



Manual Integration Results

3.013	Response = 64168	M
3.526	Response = 32501	
3.774	Response = 24481	
3.823	Response = 19496	
4.033	Response = 18050	

Reviewer: owenj, 30-Oct-2017 15:01:27

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 30-Oct-2017 15:16:46 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Injection Date: 30-Oct-2017 14:43:20 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

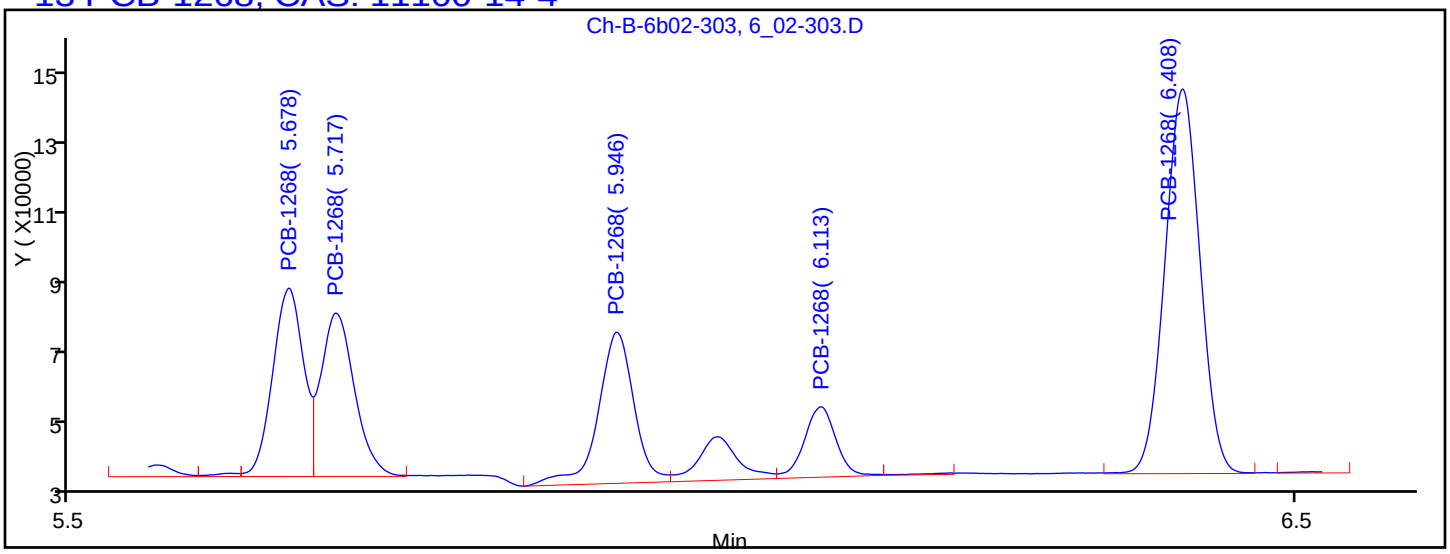
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

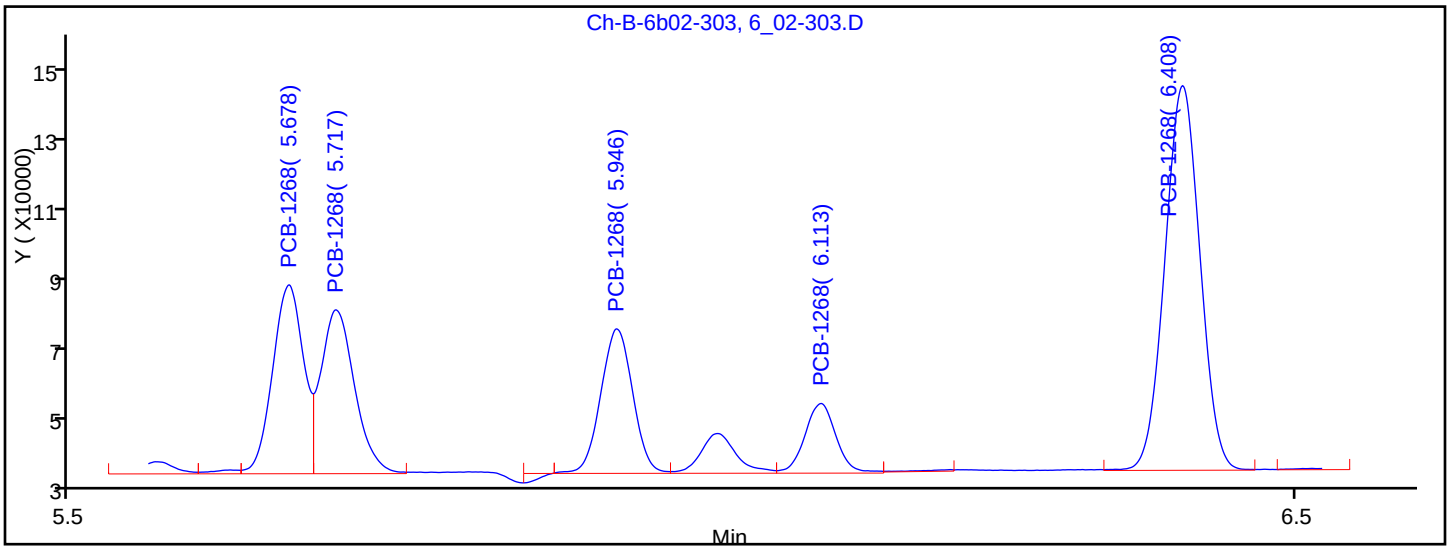
Column: Detector Ch-B-7b136

13 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.678	Response = 94267
5.717	Response = 88220
5.946	Response = 87677
6.113	Response = 36104
6.408	Response = 218693



Manual Integration Results

5.678	Response = 94832	M
5.717	Response = 88913	M
5.946	Response = 74856	M
6.113	Response = 35351	M
6.408	Response = 218693	

Reviewer: owenj, 30-Oct-2017 15:01:48

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-386747/4 Calibration Date: 11/10/2017 11:21

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 14:46

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/28/2017 16:22

Lab File ID: 6_03-266.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0311	0.0314		0.504	0.500	0.7	20.0
PCB-1016 Peak 2	Ave	0.0195	0.0173		0.445	0.500	-10.9	20.0
PCB-1016 Peak 3	Ave	0.0759	0.0623		0.410	0.500	-18.0	20.0
PCB-1016 Peak 4	Ave	0.0293	0.0237		0.403	0.500	-19.3	20.0
PCB-1016 Peak 5	Ave	0.0201	0.0162		0.402	0.500	-19.7	20.0
PCB-1260 Peak 1	Ave	0.0481	0.0397		0.413	0.500	-17.5	20.0
PCB-1260 Peak 2	Ave	0.0532	0.0442		0.415	0.500	-17.0	20.0
PCB-1260 Peak 3	Ave	0.0724	0.0611		0.422	0.500	-15.6	20.0
PCB-1260 Peak 4	Ave	0.0746	0.0645		0.432	0.500	-13.6	20.0
PCB-1260 Peak 5	Ave	0.0401	0.0341		0.424	0.500	-15.1	20.0
Tetrachloro-m-xylene	Ave	1.083	1.195		0.0138	0.0125	10.3	20.0
DCB Decachlorobiphenyl	Ave	0.6066	0.5440		0.0112	0.0125	-10.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-386747/4 Calibration Date: 11/10/2017 11:21

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 14:46

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/28/2017 16:22

Lab File ID: 6_03-266.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.80	2.79	2.82
PCB-1016 Peak 2	2.96	2.95	2.98
PCB-1016 Peak 3	3.17	3.16	3.19
PCB-1016 Peak 4	3.26	3.25	3.28
PCB-1016 Peak 5	3.33	3.31	3.34
PCB-1260 Peak 1	4.66	4.65	4.68
PCB-1260 Peak 2	4.84	4.83	4.86
PCB-1260 Peak 3	5.08	5.06	5.09
PCB-1260 Peak 4	5.60	5.59	5.62
PCB-1260 Peak 5	5.84	5.83	5.86
Tetrachloro-m-xylene	2.18	2.17	2.20
DCB Decachlorobiphenyl	6.99	6.97	7.00

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-266.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Nov-2017 11:21:54 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 14:30:03 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 14:30:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.185	1.185	0.000	20242049	0.5000	0.5000	
2	1.183	1.183	0.000	18867675	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.183	2.183	0.000	604478	0.0125	0.0138	M
2	1.869	1.869	0.000	613434	0.0125	0.0125	
						RPD = 9.78	
6 PCB-1016							M
1	2.804	2.804	0.000	634965	0.5000	0.5037	M
1	2.962	2.962	0.000	351028	0.5000	0.4454	M
1	3.174	3.174	0.000	1260733	0.5000	0.4102	M
1	3.261	3.261	0.000	478959	0.5000	0.4033	M
1	3.326	3.326	0.000	327090	0.5000	0.4016	M
		Average of Peak Amounts =				0.4328	
2	2.651	2.651	0.000	819859	0.5000	0.4880	
2	2.979	2.979	0.000	1780773	0.5000	0.5226	
2	3.099	3.099	0.000	649855	0.5000	0.4941	
2	3.198	3.198	0.000	396504	0.5000	0.4944	
2	3.485	3.485	0.000	785902	0.5000	0.5048	
		Average of Peak Amounts =				0.5008	
						RPD = 14.55	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.660	4.660	0.000	802688	0.5000	0.4126	M
1	4.843	4.843	0.000	894076	0.5000	0.4148	M
1	5.077	5.077	0.000	1236705	0.5000	0.4220	M
1	5.601	5.601	0.000	1305435	0.5000	0.4321	M
1	5.843	5.843	0.000	689169	0.5000	0.4243	M
		Average of Peak Amounts =				0.4212	
2	4.877	4.877	0.000	1104700	0.5000	0.5336	
2	4.925	4.925	0.000	597169	0.5000	0.5166	
2	5.190	5.190	0.000	740977	0.5000	0.5369	
2	5.326	5.326	0.000	1664433	0.5000	0.5201	
2	5.663	5.663	0.000	1013994	0.5000	0.5233	
		Average of Peak Amounts =				0.5261	
						RPD = 22.16	
9 1260 Res 1							M
1	5.843	5.843	0.000	689169	NR	NR	M
2	5.190	5.190	0.000	740977	NR	NR	
						RPD = NaN	
14 1260 Res 2							M
1	5.902	5.902	0.000	234748	NR	NR	M
2	5.257	5.257	0.000	558256	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	5.945	5.945	0.000	289696	NR	NR	
2	5.326	5.326	0.000	1664433	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.987	6.987	0.000	275314	0.0125	0.0112	
2	6.620	6.620	0.000	368502	0.0125	0.0150	
						RPD = 28.65	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00014 Amount Added: 1.00 Units: ml

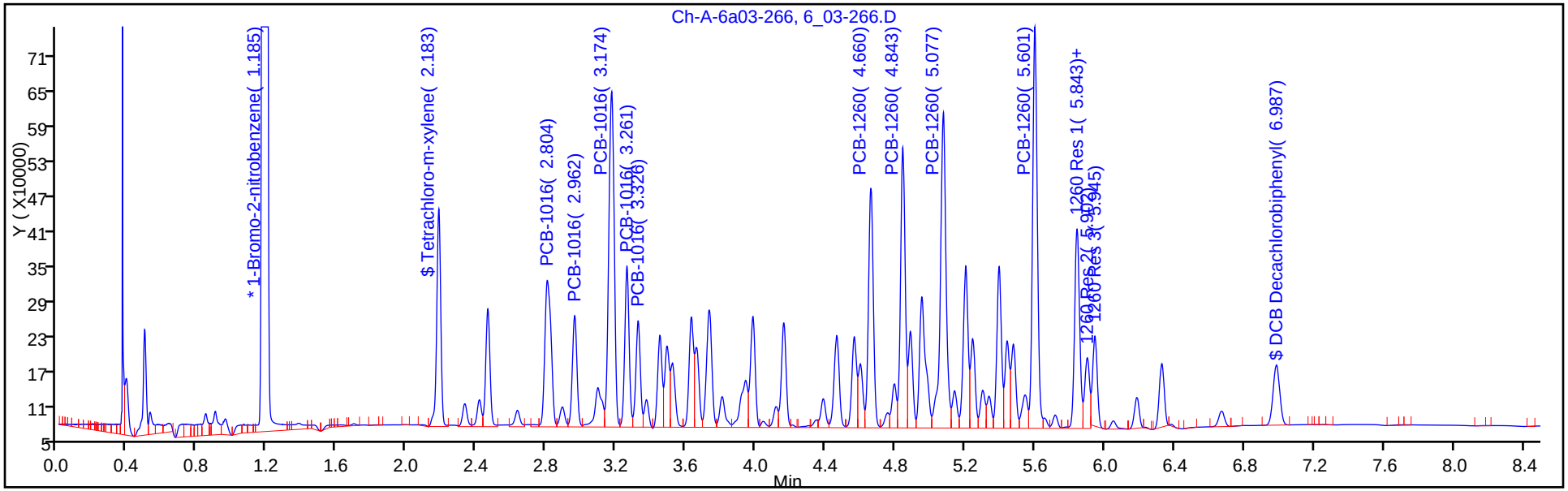
Report Date: 10-Nov-2017 14:30:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

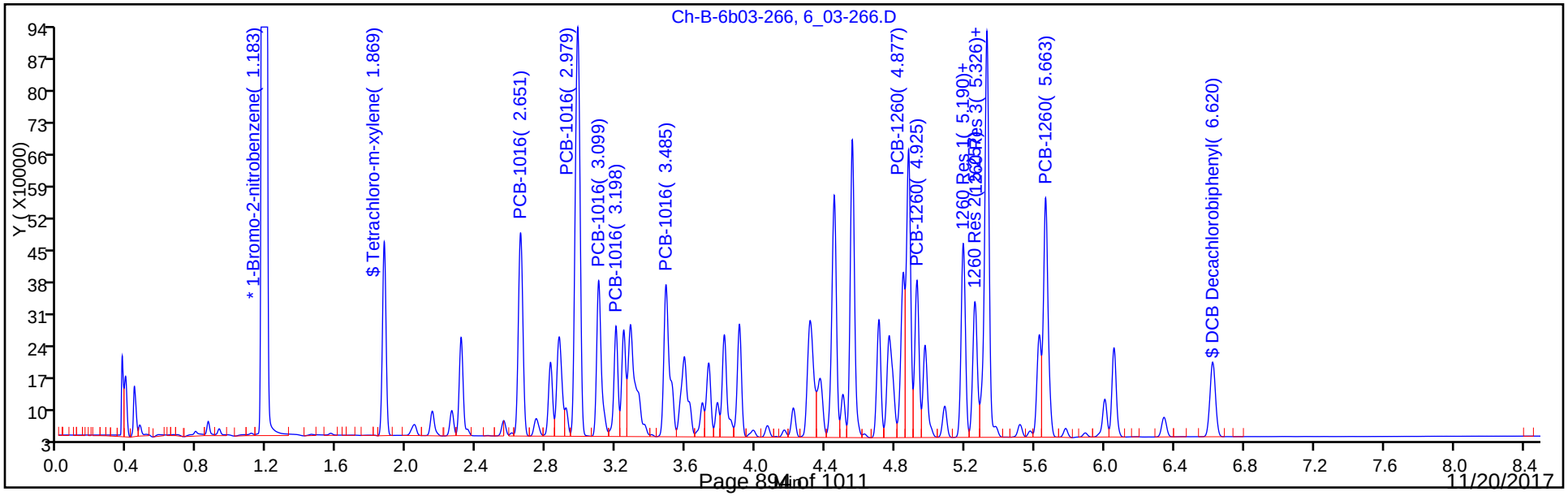
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Injection Date:	10-Nov-2017 11:21:54	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

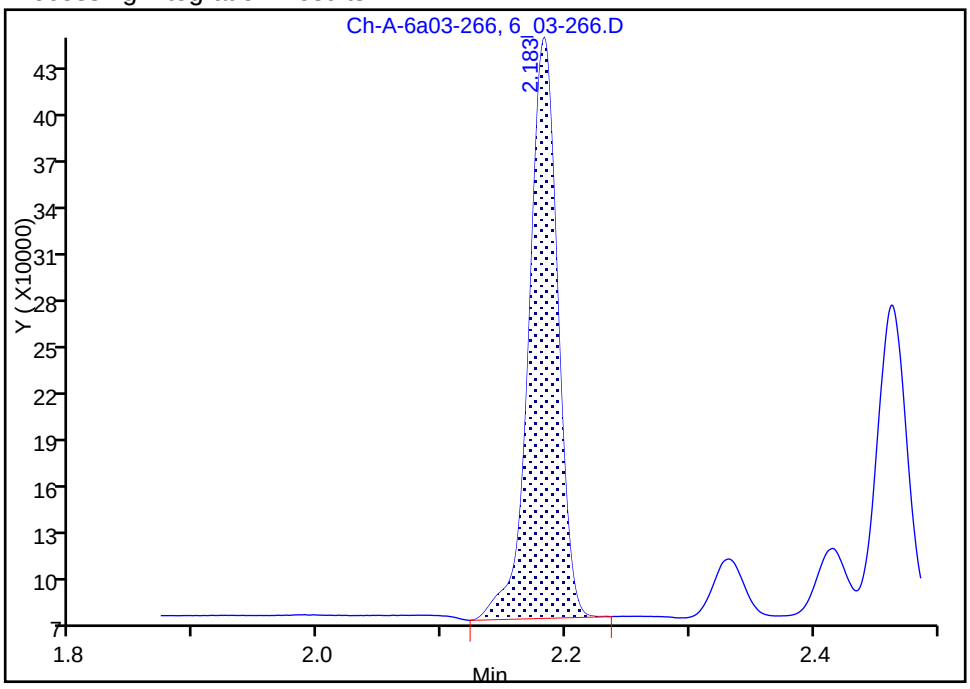
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Injection Date:	10-Nov-2017 11:21:54	Instrument ID:	HP6890-6		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

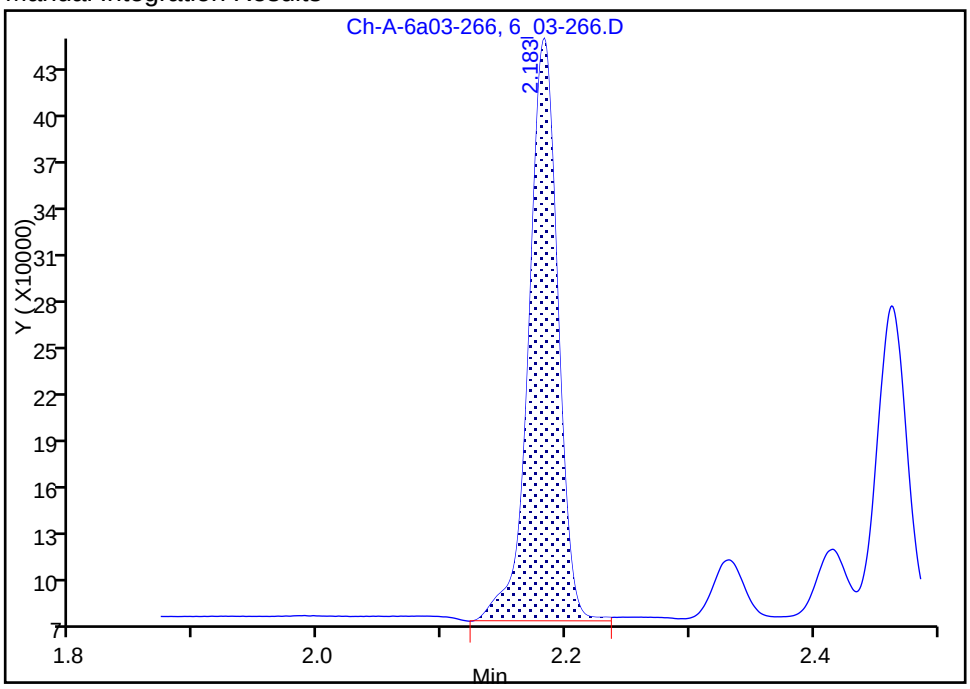
Processing Integration Results

RT: 2.18
Area: 598221
Amount: 0.013648
Amount Units: ng/uL



Manual Integration Results

RT: 2.18
Area: 604478
Amount: 0.013791
Amount Units: ng/uL



Reviewer: owenj, 10-Nov-2017 12:01:29
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 10-Nov-2017 14:30:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-266.D

Injection Date: 10-Nov-2017 11:21:54 Instrument ID: HP6890-6

Lims ID: CCVIS

Client ID:

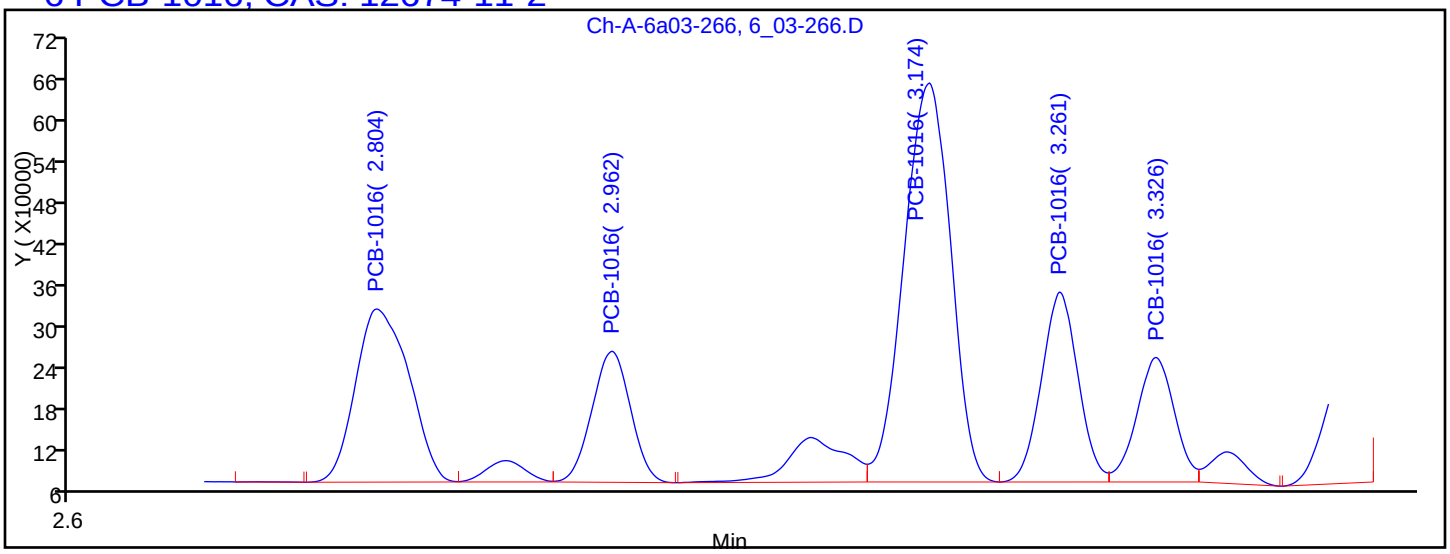
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

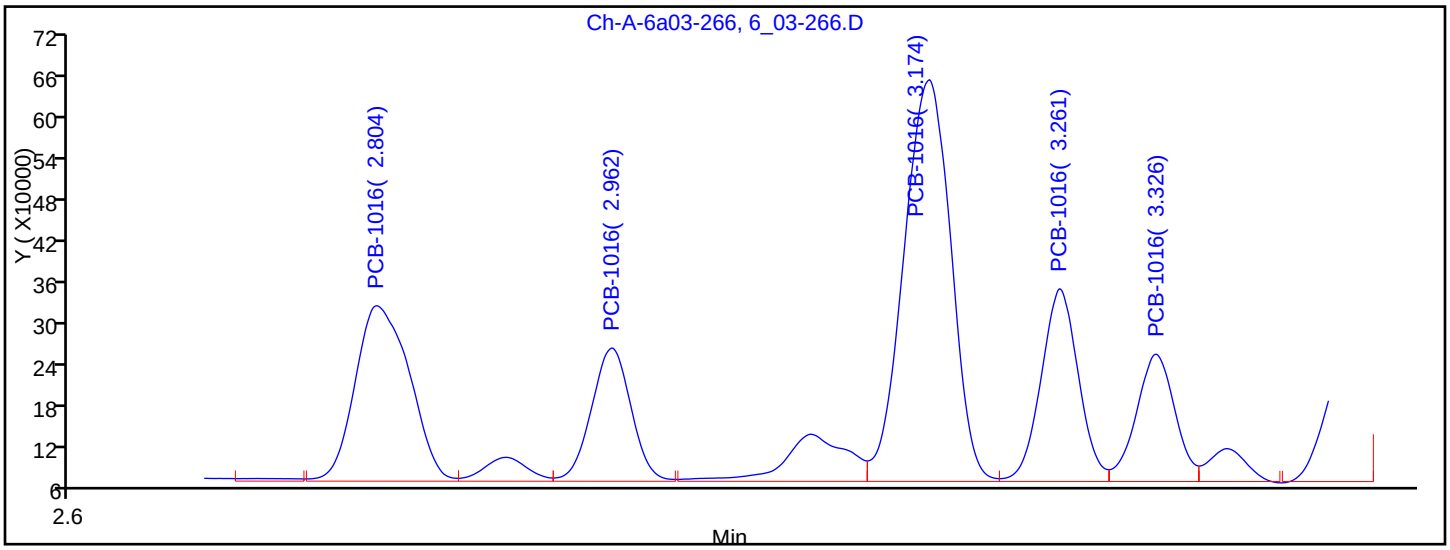
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.804	Response = 614481
2.962	Response = 335460
3.174	Response = 1240354
3.261	Response = 461744
3.326	Response = 312732



Manual Integration Results

2.804	Response = 634965	M
2.962	Response = 351028	M
3.174	Response = 1260733	M
3.261	Response = 478959	M
3.326	Response = 327090	M

Reviewer: owenj, 10-Nov-2017 12:01:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 10-Nov-2017 14:30:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-266.D

Injection Date: 10-Nov-2017 11:21:54 Instrument ID: HP6890-6

Lims ID: CCVIS

Client ID:

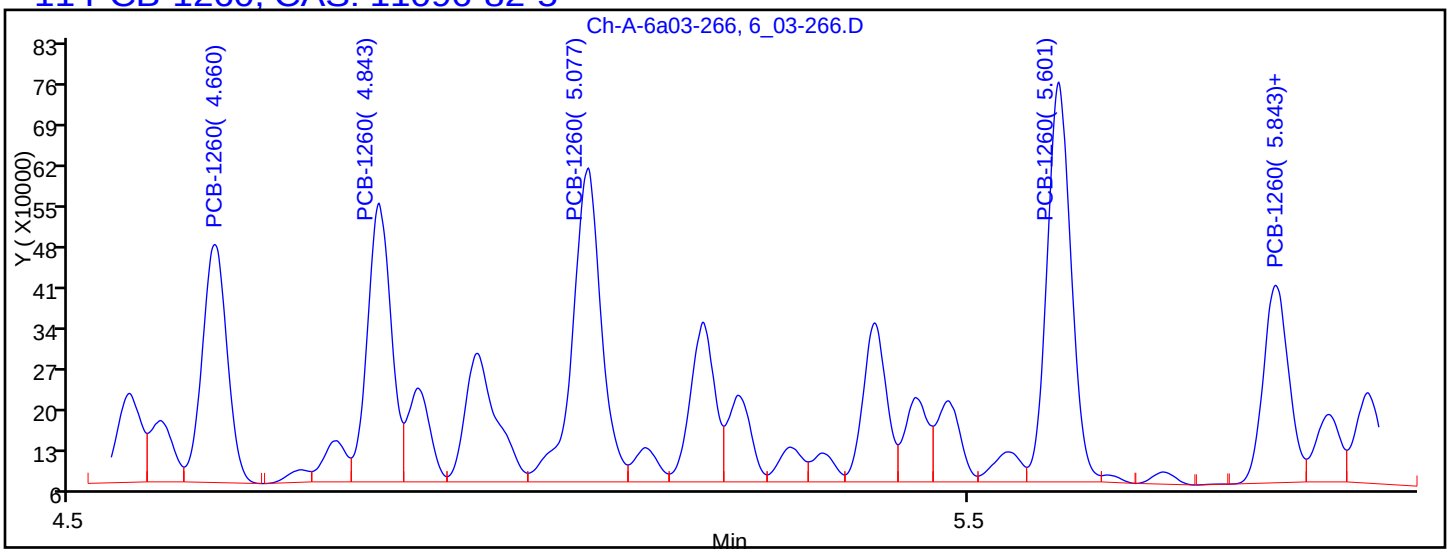
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

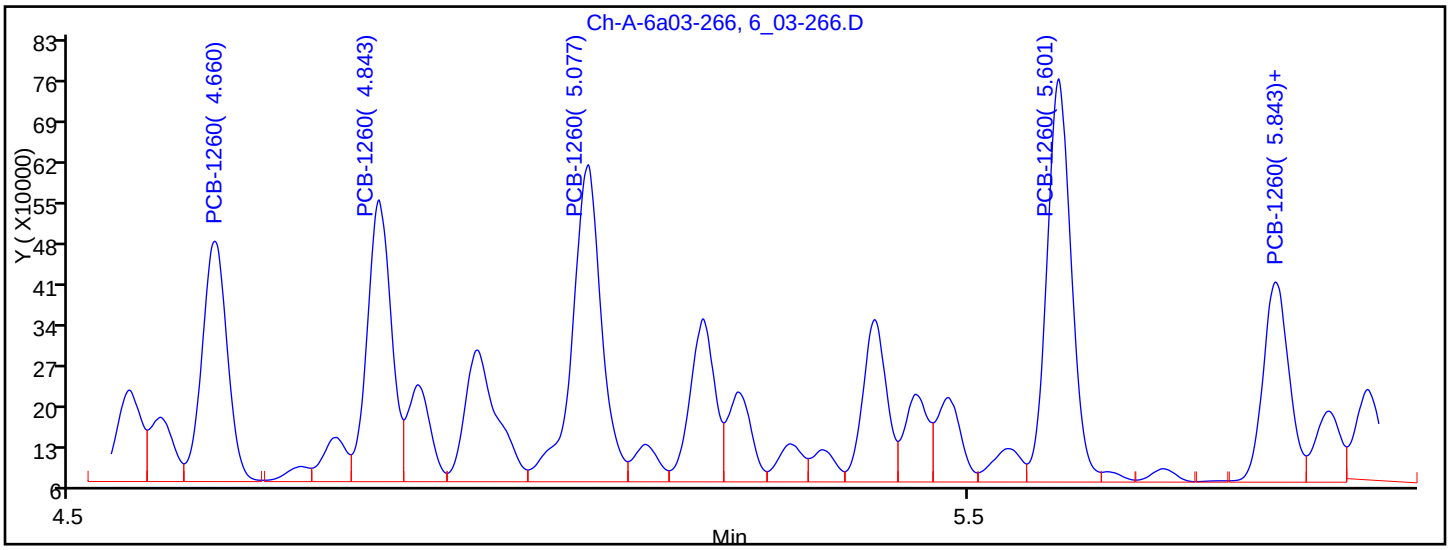
Column: Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.660	Response = 783635
4.843	Response = 875694
5.077	Response = 1200267
5.601	Response = 1275987
5.843	Response = 667670



Manual Integration Results

4.660	Response = 802688	M
4.843	Response = 894076	M
5.077	Response = 1236705	M
5.601	Response = 1305435	M
5.843	Response = 689169	M

Reviewer: owenj, 10-Nov-2017 12:01:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-386747/4 Calibration Date: 11/10/2017 11:21

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 14:46

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/28/2017 16:22

Lab File ID: 6_03-266.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0445	0.0435		0.488	0.500	-2.4	20.0
PCB-1016 Peak 2	Ave	0.0903	0.0944		0.523	0.500	4.5	20.0
PCB-1016 Peak 3	Ave	0.0349	0.0344		0.494	0.500	-1.2	20.0
PCB-1016 Peak 4	Ave	0.0213	0.0210		0.494	0.500	-1.1	20.0
PCB-1016 Peak 5	Ave	0.0413	0.0417		0.505	0.500	1.0	20.0
PCB-1260 Peak 1	Ave	0.0549	0.0586		0.534	0.500	6.7	20.0
PCB-1260 Peak 2	Ave	0.0306	0.0317		0.517	0.500	3.3	20.0
PCB-1260 Peak 3	Ave	0.0366	0.0393		0.537	0.500	7.4	20.0
PCB-1260 Peak 4	Ave	0.0848	0.0882		0.520	0.500	4.0	20.0
PCB-1260 Peak 5	Ave	0.0514	0.0537		0.523	0.500	4.7	20.0
Tetrachloro-m-xylene	Ave	1.300	1.301		0.0125	0.0125	0.0	20.0
DCB Decachlorobiphenyl	Lin1		0.7812		0.0150	0.0125	19.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCVIS 480-386747/4 Calibration Date: 11/10/2017 11:21

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 14:46

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/28/2017 16:22

Lab File ID: 6_03-266.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.65	2.64	2.67
PCB-1016 Peak 2	2.98	2.96	2.99
PCB-1016 Peak 3	3.10	3.08	3.11
PCB-1016 Peak 4	3.20	3.18	3.21
PCB-1016 Peak 5	3.49	3.47	3.50
PCB-1260 Peak 1	4.88	4.86	4.89
PCB-1260 Peak 2	4.93	4.91	4.94
PCB-1260 Peak 3	5.19	5.18	5.21
PCB-1260 Peak 4	5.33	5.31	5.34
PCB-1260 Peak 5	5.66	5.65	5.68
Tetrachloro-m-xylene	1.87	1.85	1.88
DCB Decachlorobiphenyl	6.62	6.61	6.64

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-266.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Nov-2017 11:21:54 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 14:30:03 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 14:30:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.185	1.185	0.000	20242049	0.5000	0.5000	
2	1.183	1.183	0.000	18867675	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	2.183	2.183	0.000	604478	0.0125	0.0138	M
2	1.869	1.869	0.000	613434	0.0125	0.0125	
						RPD = 9.78	
6 PCB-1016							M
1	2.804	2.804	0.000	634965	0.5000	0.5037	M
1	2.962	2.962	0.000	351028	0.5000	0.4454	M
1	3.174	3.174	0.000	1260733	0.5000	0.4102	M
1	3.261	3.261	0.000	478959	0.5000	0.4033	M
1	3.326	3.326	0.000	327090	0.5000	0.4016	M
		Average of Peak Amounts =				0.4328	
2	2.651	2.651	0.000	819859	0.5000	0.4880	
2	2.979	2.979	0.000	1780773	0.5000	0.5226	
2	3.099	3.099	0.000	649855	0.5000	0.4941	
2	3.198	3.198	0.000	396504	0.5000	0.4944	
2	3.485	3.485	0.000	785902	0.5000	0.5048	
		Average of Peak Amounts =				0.5008	
						RPD = 14.55	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.660	4.660	0.000	802688	0.5000	0.4126	M
1	4.843	4.843	0.000	894076	0.5000	0.4148	M
1	5.077	5.077	0.000	1236705	0.5000	0.4220	M
1	5.601	5.601	0.000	1305435	0.5000	0.4321	M
1	5.843	5.843	0.000	689169	0.5000	0.4243	M
		Average of Peak Amounts =				0.4212	
2	4.877	4.877	0.000	1104700	0.5000	0.5336	
2	4.925	4.925	0.000	597169	0.5000	0.5166	
2	5.190	5.190	0.000	740977	0.5000	0.5369	
2	5.326	5.326	0.000	1664433	0.5000	0.5201	
2	5.663	5.663	0.000	1013994	0.5000	0.5233	
		Average of Peak Amounts =				0.5261	
						RPD = 22.16	
9 1260 Res 1							M
1	5.843	5.843	0.000	689169	NR	NR	M
2	5.190	5.190	0.000	740977	NR	NR	
						RPD = NaN	
14 1260 Res 2							M
1	5.902	5.902	0.000	234748	NR	NR	M
2	5.257	5.257	0.000	558256	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	5.945	5.945	0.000	289696	NR	NR	
2	5.326	5.326	0.000	1664433	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.987	6.987	0.000	275314	0.0125	0.0112	
2	6.620	6.620	0.000	368502	0.0125	0.0150	
						RPD = 28.65	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00014 Amount Added: 1.00 Units: ml

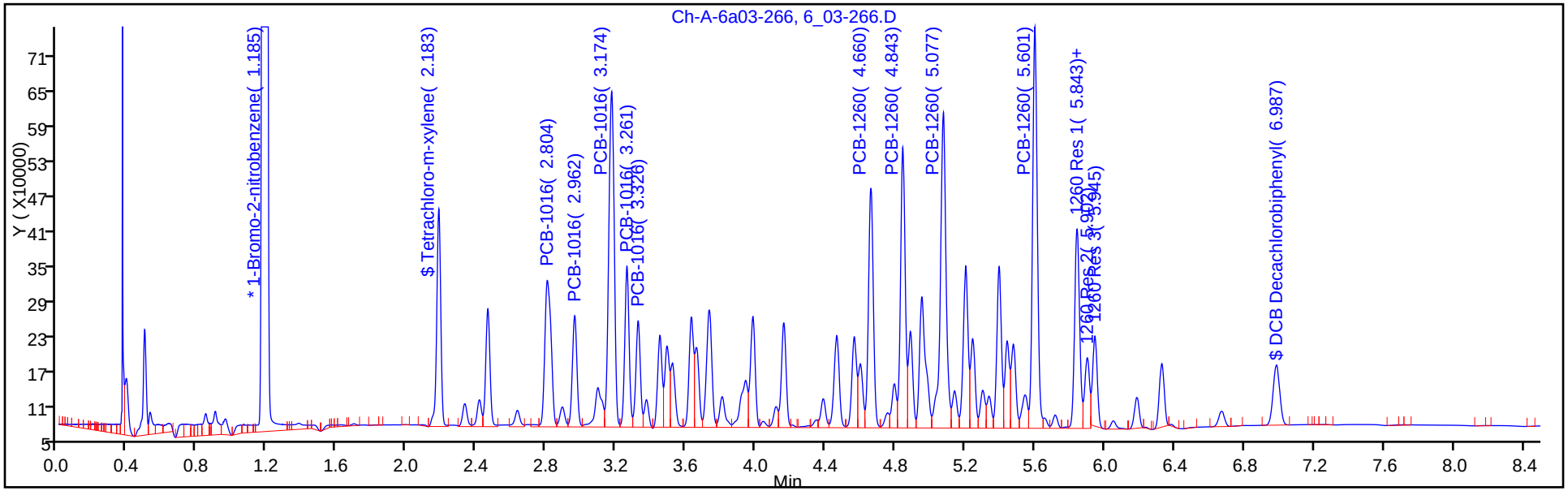
Report Date: 10-Nov-2017 14:30:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

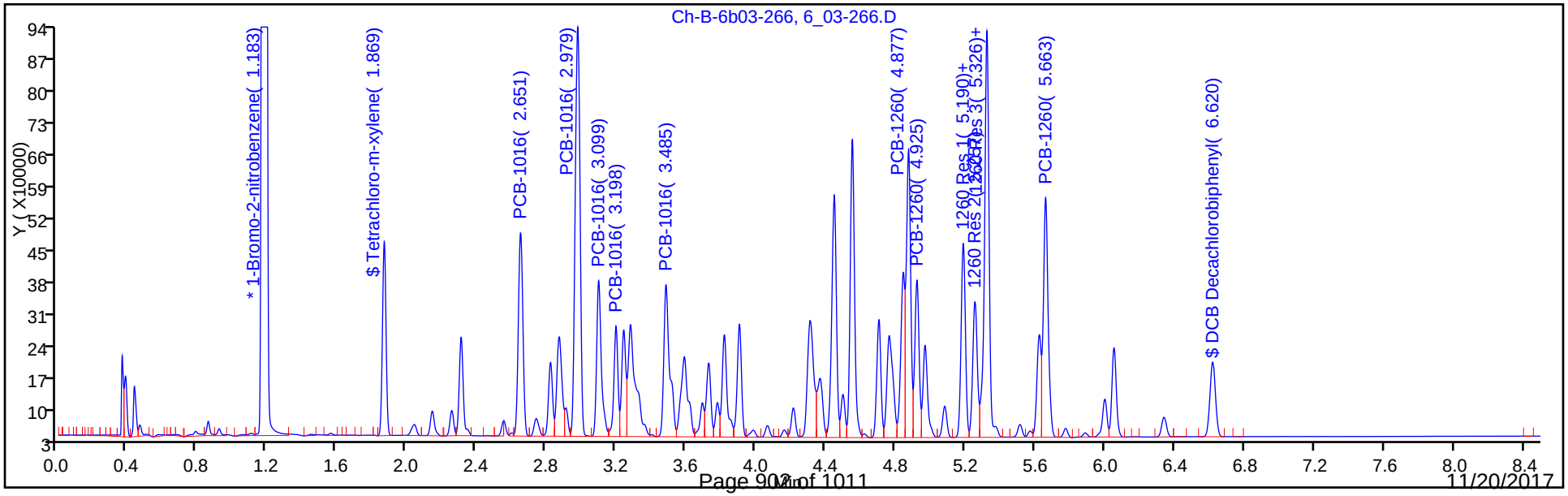
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-266.D

Injection Date:	10-Nov-2017 11:21:54	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/5 Calibration Date: 11/10/2017 11:37

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 17:58

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/28/2017 18:30

Lab File ID: 6_03-267.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0055	0.0073		0.658	0.500	31.6*	20.0
PCB-1221 Peak 2	Ave	0.0102	0.0120		0.586	0.500	17.2	20.0
PCB-1221 Peak 3	Ave	0.0066	0.0075		0.571	0.500	14.3	20.0
PCB-1221 Peak 4	Ave	0.0248	0.0272		0.548	0.500	9.6	20.0
PCB-1254 Peak 1	Ave	0.0634	0.0500		0.394	0.500	-21.3*	20.0
PCB-1254 Peak 2	Ave	0.0786	0.0610		0.388	0.500	-22.4*	20.0
PCB-1254 Peak 3	Ave	0.0810	0.0617		0.381	0.500	-23.7*	20.0
PCB-1254 Peak 4	Ave	0.0286	0.0380		0.665	0.500	32.9*	20.0
PCB-1254 Peak 5	Ave	0.0495	0.0519		0.524	0.500	4.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/5 Calibration Date: 11/10/2017 11:37

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 17:58

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/28/2017 18:30

Lab File ID: 6_03-267.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.70	1.68	1.71
PCB-1221 Peak 2	2.33	2.32	2.35
PCB-1221 Peak 3	2.42	2.40	2.43
PCB-1221 Peak 4	2.46	2.45	2.48
PCB-1254 Peak 1	4.16	4.15	4.18
PCB-1254 Peak 2	4.47	4.45	4.48
PCB-1254 Peak 3	4.67	4.65	4.68
PCB-1254 Peak 4	4.89	4.88	4.91
PCB-1254 Peak 5	5.08	5.06	5.09

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-267.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 10-Nov-2017 11:37:55 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 14:30:38 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 14:30:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.186	1.186	0.000	18685436	0.5000	0.5000	
2	1.183	1.183	0.000	17436388	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							
1	1.697	1.697	0.000	136085	0.5000	0.6581	
1	2.333	2.333	0.000	223589	0.5000	0.5860	
1	2.415	2.415	0.000	140564	0.5000	0.5713	
1	2.464	2.464	0.000	508298	0.5000	0.5481	
		Average of Peak Amounts =				0.5909	
2	1.563	1.563	0.000	161673	0.5000	0.5875	
2	2.145	2.145	0.000	270524	0.5000	0.6079	
2	2.258	2.258	0.000	168777	0.5000	0.6019	
2	2.311	2.311	0.000	501674	0.5000	0.5955	
		Average of Peak Amounts =				0.5982	
						RPD = 1.23	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	4.162	4.162	0.000	933340	0.5000	0.3936	
1	4.468	4.468	0.000	1139620	0.5000	0.3878	
1	4.668	4.668	0.000	1153682	0.5000	0.3814	
1	4.893	4.893	0.000	710880	0.5000	0.6646	
1	5.078	5.078	0.000	969355	0.5000	0.5245	
		Average of Peak Amounts =				0.4704	
2	3.907	3.907	0.000	1051627	0.5000	0.6155	
2	4.216	4.216	0.000	731959	0.5000	0.6214	
2	4.303	4.303	0.000	1498219	0.5000	0.5976	
2	4.434	4.434	0.000	1583350	0.5000	0.6229	
2	4.877	4.877	0.000	1312048	0.5000	0.6192	
		Average of Peak Amounts =				0.6153	
						RPD = 26.70	

Reagents:

21-54w/IS@0.5_00015 Amount Added: 1.00 Units: mL

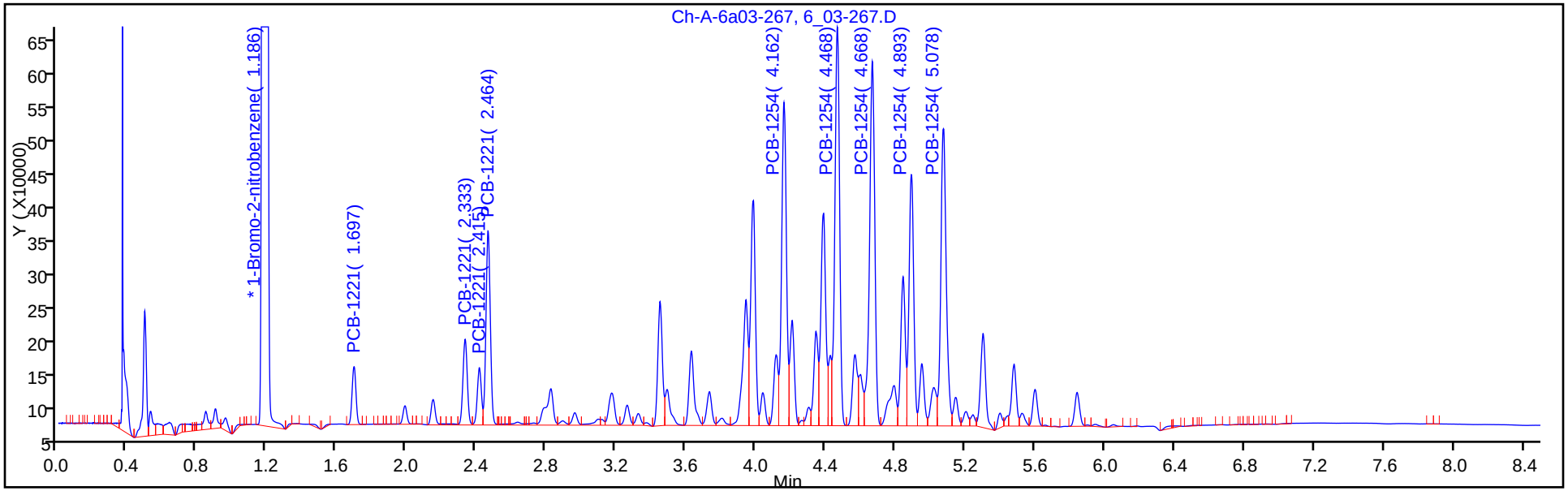
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TestAmerica Buffalo

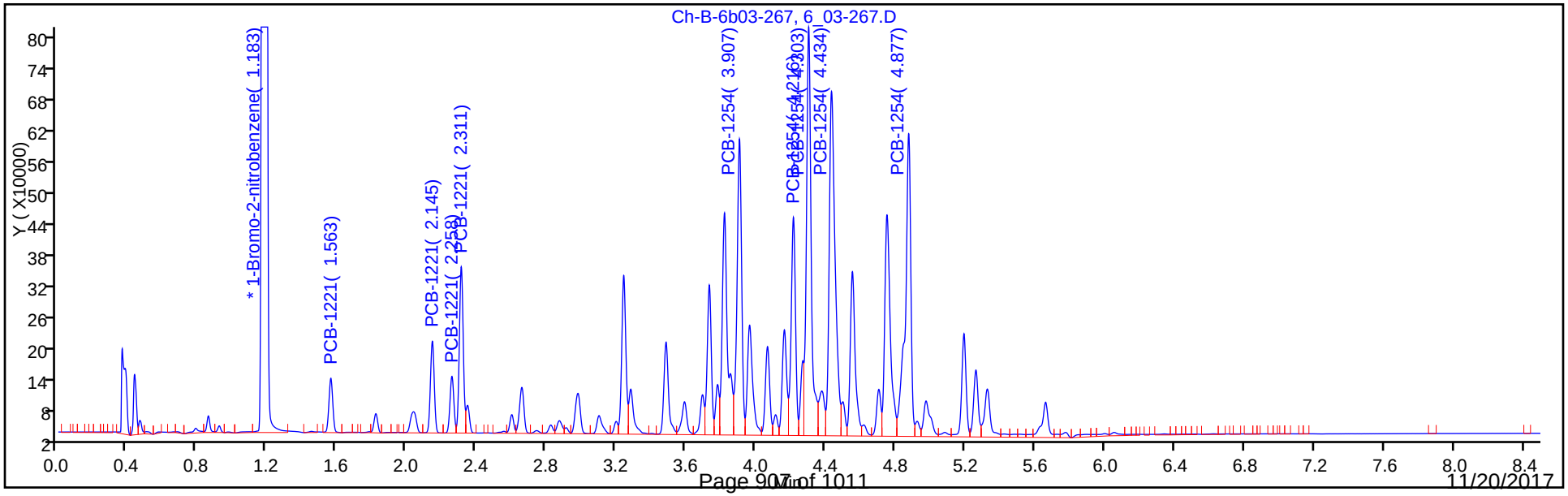
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Injection Date:	10-Nov-2017 11:37:55	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/5 Calibration Date: 11/10/2017 11:37

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 17:58

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/28/2017 18:30

Lab File ID: 6_03-267.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0079	0.0093		0.588	0.500	17.5	20.0
PCB-1221 Peak 2	Ave	0.0128	0.0155		0.608	0.500	21.6*	20.0
PCB-1221 Peak 3	Ave	0.0080	0.0097		0.602	0.500	20.4*	20.0
PCB-1221 Peak 4	Ave	0.0242	0.0288		0.595	0.500	19.1	20.0
PCB-1254 Peak 1	Ave	0.0490	0.0603		0.616	0.500	23.1*	20.0
PCB-1254 Peak 2	Ave	0.0338	0.0420		0.621	0.500	24.3*	20.0
PCB-1254 Peak 3	Ave	0.0719	0.0859		0.598	0.500	19.5	20.0
PCB-1254 Peak 4	Ave	0.0729	0.0908		0.623	0.500	24.6*	20.0
PCB-1254 Peak 5	Ave	0.0608	0.0753		0.619	0.500	23.8*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/5 Calibration Date: 11/10/2017 11:37

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 17:58

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/28/2017 18:30

Lab File ID: 6_03-267.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.56	1.55	1.58
PCB-1221 Peak 2	2.15	2.13	2.16
PCB-1221 Peak 3	2.26	2.24	2.27
PCB-1221 Peak 4	2.31	2.30	2.33
PCB-1254 Peak 1	3.91	3.89	3.92
PCB-1254 Peak 2	4.22	4.20	4.23
PCB-1254 Peak 3	4.30	4.29	4.32
PCB-1254 Peak 4	4.43	4.42	4.45
PCB-1254 Peak 5	4.88	4.86	4.89

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-267.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 10-Nov-2017 11:37:55 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 14:30:38 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 14:30:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.186	1.186	0.000	18685436	0.5000	0.5000	
2	1.183	1.183	0.000	17436388	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							
1	1.697	1.697	0.000	136085	0.5000	0.6581	
1	2.333	2.333	0.000	223589	0.5000	0.5860	
1	2.415	2.415	0.000	140564	0.5000	0.5713	
1	2.464	2.464	0.000	508298	0.5000	0.5481	
		Average of Peak Amounts =				0.5909	
2	1.563	1.563	0.000	161673	0.5000	0.5875	
2	2.145	2.145	0.000	270524	0.5000	0.6079	
2	2.258	2.258	0.000	168777	0.5000	0.6019	
2	2.311	2.311	0.000	501674	0.5000	0.5955	
		Average of Peak Amounts =				0.5982	
						RPD = 1.23	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	4.162	4.162	0.000	933340	0.5000	0.3936	
1	4.468	4.468	0.000	1139620	0.5000	0.3878	
1	4.668	4.668	0.000	1153682	0.5000	0.3814	
1	4.893	4.893	0.000	710880	0.5000	0.6646	
1	5.078	5.078	0.000	969355	0.5000	0.5245	
		Average of Peak Amounts =				0.4704	
2	3.907	3.907	0.000	1051627	0.5000	0.6155	
2	4.216	4.216	0.000	731959	0.5000	0.6214	
2	4.303	4.303	0.000	1498219	0.5000	0.5976	
2	4.434	4.434	0.000	1583350	0.5000	0.6229	
2	4.877	4.877	0.000	1312048	0.5000	0.6192	
		Average of Peak Amounts =				0.6153	
						RPD = 26.70	

Reagents:

21-54w/IS@0.5_00015 Amount Added: 1.00 Units: mL

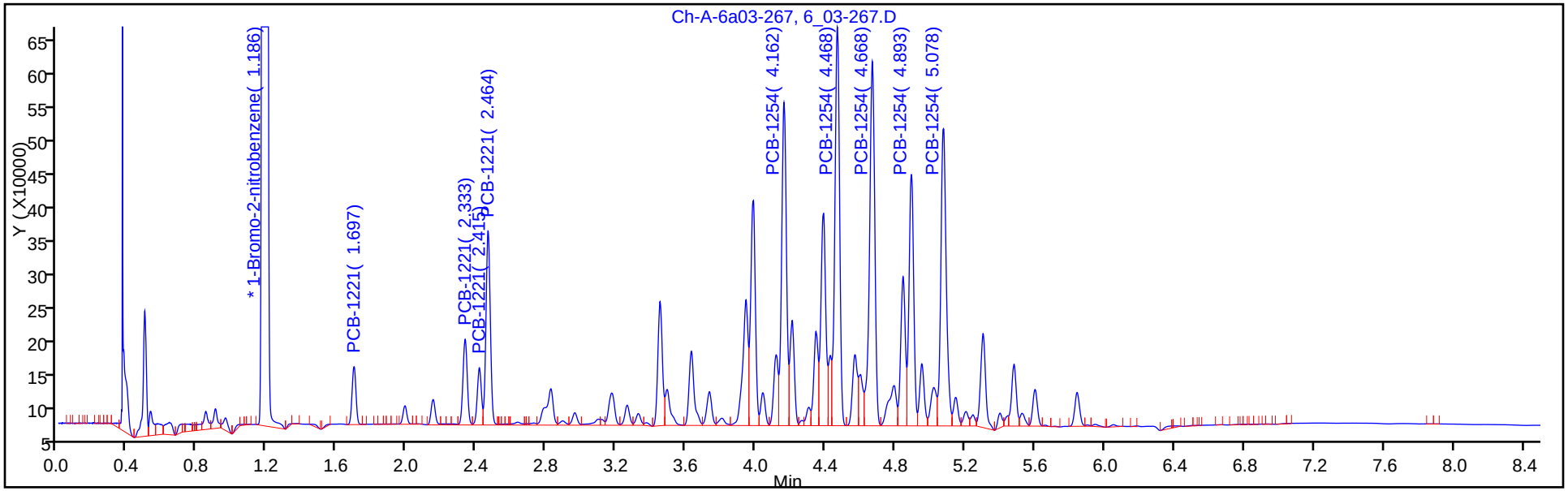
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TestAmerica Buffalo

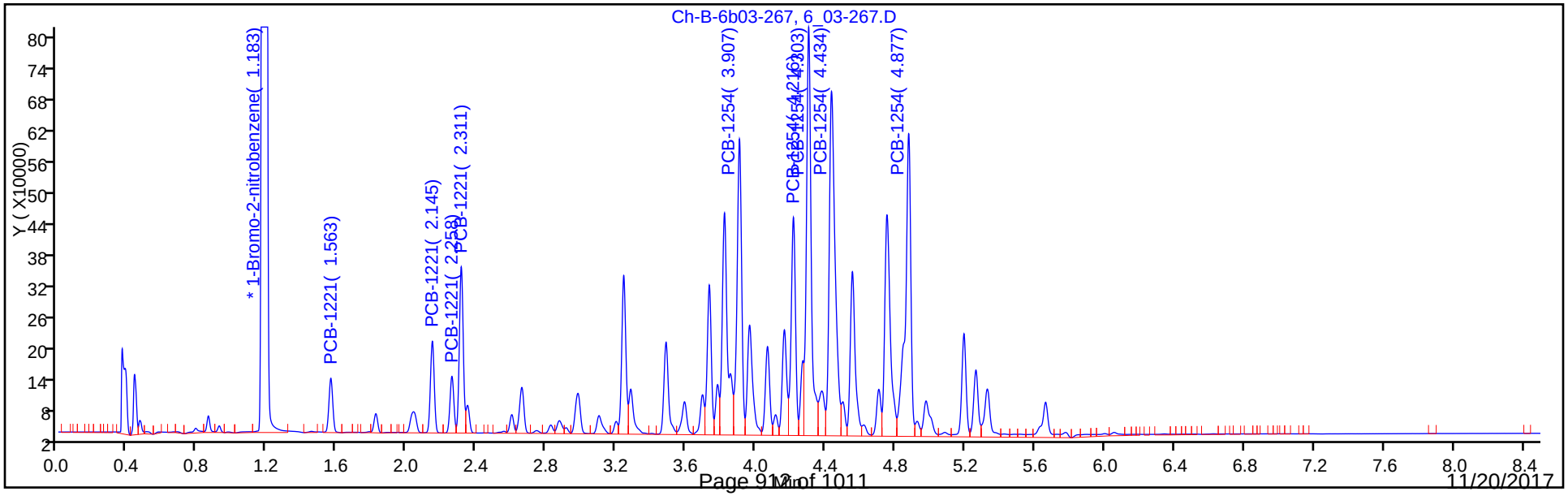
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-267.D

Injection Date:	10-Nov-2017 11:37:55	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/6 Calibration Date: 11/10/2017 11:53

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 19:02

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/28/2017 19:34

Lab File ID: 6_03-268.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0189	0.0185		0.490	0.500	-1.9	20.0
PCB-1232 Peak 2	Ave	0.0105	0.0093		0.445	0.500	-10.9	20.0
PCB-1232 Peak 3	Ave	0.0389	0.0315		0.405	0.500	-19.0	20.0
PCB-1232 Peak 4	Ave	0.0149	0.0121		0.406	0.500	-18.8	20.0
PCB-1232 Peak 5	Ave	0.0101	0.0083		0.409	0.500	-18.1	20.0
PCB-1262 Peak 1	Ave	0.0683	0.0507		0.371	0.500	-25.8*	20.0
PCB-1262 Peak 2	Ave	0.0528	0.0384		0.363	0.500	-27.3*	20.0
PCB-1262 Peak 3	Ave	0.1259	0.0916		0.364	0.500	-27.2*	20.0
PCB-1262 Peak 4	Ave	0.0391	0.0286		0.365	0.500	-26.9*	20.0
PCB-1262 Peak 5	Ave	0.0463	0.0332		0.358	0.500	-28.4*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/6 Calibration Date: 11/10/2017 11:53

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 19:02

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/28/2017 19:34

Lab File ID: 6_03-268.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.81	2.79	2.82
PCB-1232 Peak 2	2.96	2.95	2.98
PCB-1232 Peak 3	3.18	3.16	3.19
PCB-1232 Peak 4	3.26	3.25	3.28
PCB-1232 Peak 5	3.33	3.31	3.34
PCB-1262 Peak 1	5.21	5.19	5.22
PCB-1262 Peak 2	5.40	5.38	5.41
PCB-1262 Peak 3	5.60	5.59	5.62
PCB-1262 Peak 4	5.84	5.83	5.86
PCB-1262 Peak 5	5.90	5.89	5.92

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-268.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 10-Nov-2017 11:53:46 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 14:31:10 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 14:31:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.186	1.186	0.000	18734932	0.5000	0.5000	
2	1.183	1.183	0.000	17496972	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.808	2.808	0.000	347066	0.5000	0.4903	M
1	2.962	2.962	0.000	174507	0.5000	0.4453	M
1	3.175	3.175	0.000	590680	0.5000	0.4048	M
1	3.263	3.263	0.000	226155	0.5000	0.4062	M
1	3.328	3.328	0.000	155094	0.5000	0.4095	M
		Average of Peak Amounts =				0.4312	
2	2.312	2.312	0.000	423752	0.5000	0.5811	
2	2.655	2.655	0.000	453827	0.5000	0.5890	
2	2.980	2.980	0.000	856263	0.5000	0.5937	
2	3.101	3.101	0.000	327868	0.5000	0.5925	
2	3.200	3.200	0.000	200433	0.5000	0.5823	
		Average of Peak Amounts =				0.5877	
						RPD = 30.72	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	5.206	5.206	0.000	950342	0.5000	0.3712	M
1	5.398	5.398	0.000	718673	0.5000	0.3633	M
1	5.603	5.603	0.000	1716766	0.5000	0.3638	M
1	5.843	5.843	0.000	535977	0.5000	0.3654	M
1	5.901	5.901	0.000	621486	0.5000	0.3582	M
		Average of Peak Amounts =				0.3644	
2	4.926	4.926	0.000	1115454	0.5000	0.6061	
2	5.191	5.191	0.000	987339	0.5000	0.6041	
2	5.328	5.328	0.000	2142470	0.5000	0.5899	
2	5.625	5.625	0.000	868287	0.5000	0.5976	
2	5.663	5.663	0.000	1287907	0.5000	0.5920	
		Average of Peak Amounts =				0.5979	
						RPD = 48.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00015 Amount Added: 1.00 Units: mL

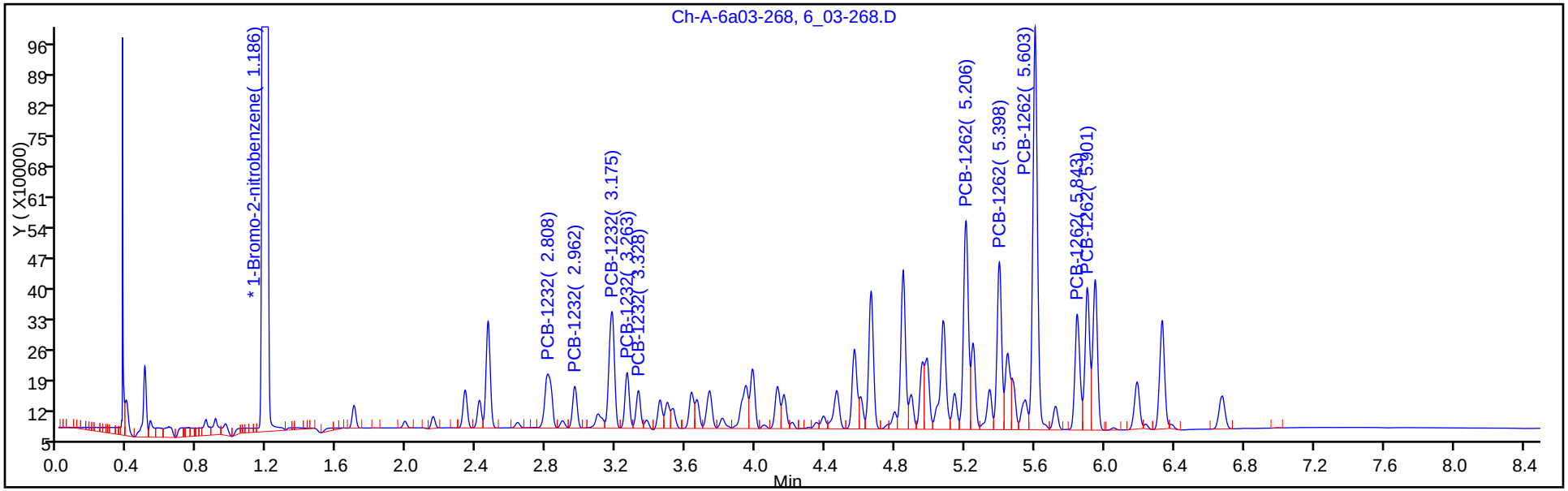
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TestAmerica Buffalo

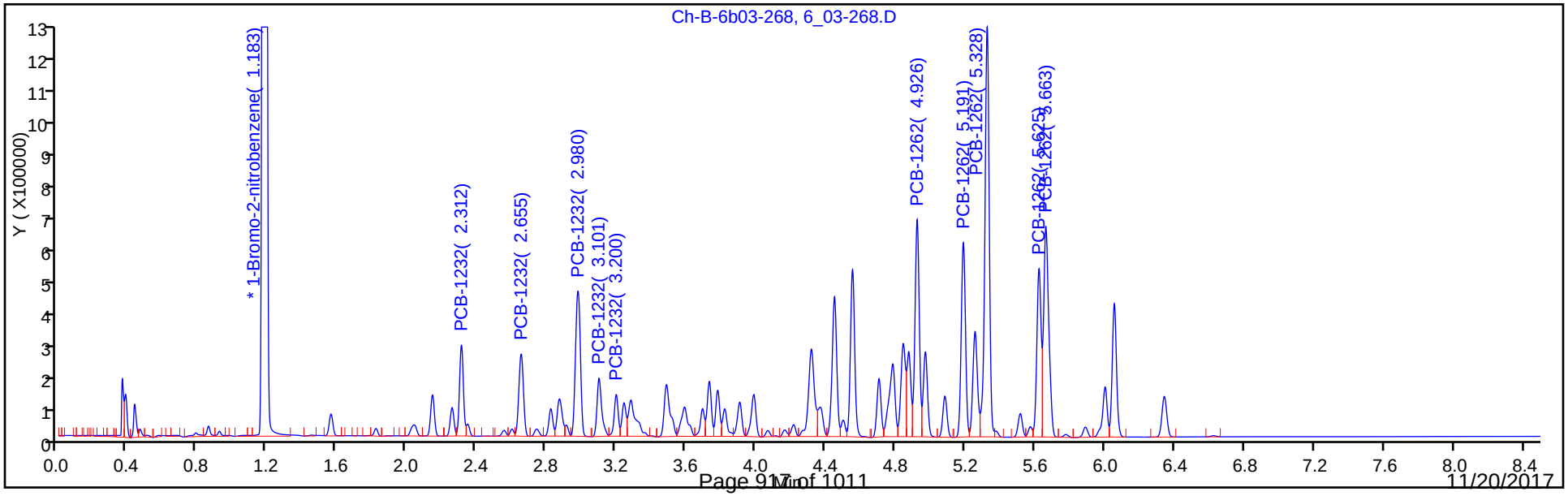
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Injection Date:	10-Nov-2017 11:53:46	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 10-Nov-2017 14:31:11 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-268.D

Injection Date: 10-Nov-2017 11:53:46 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

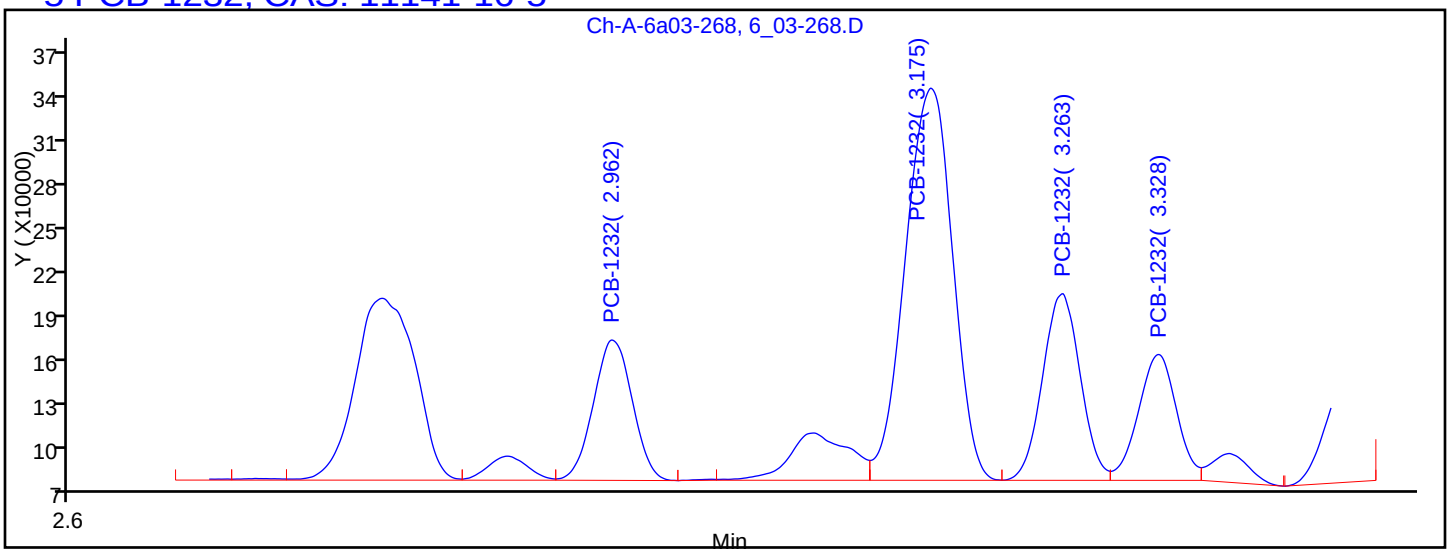
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

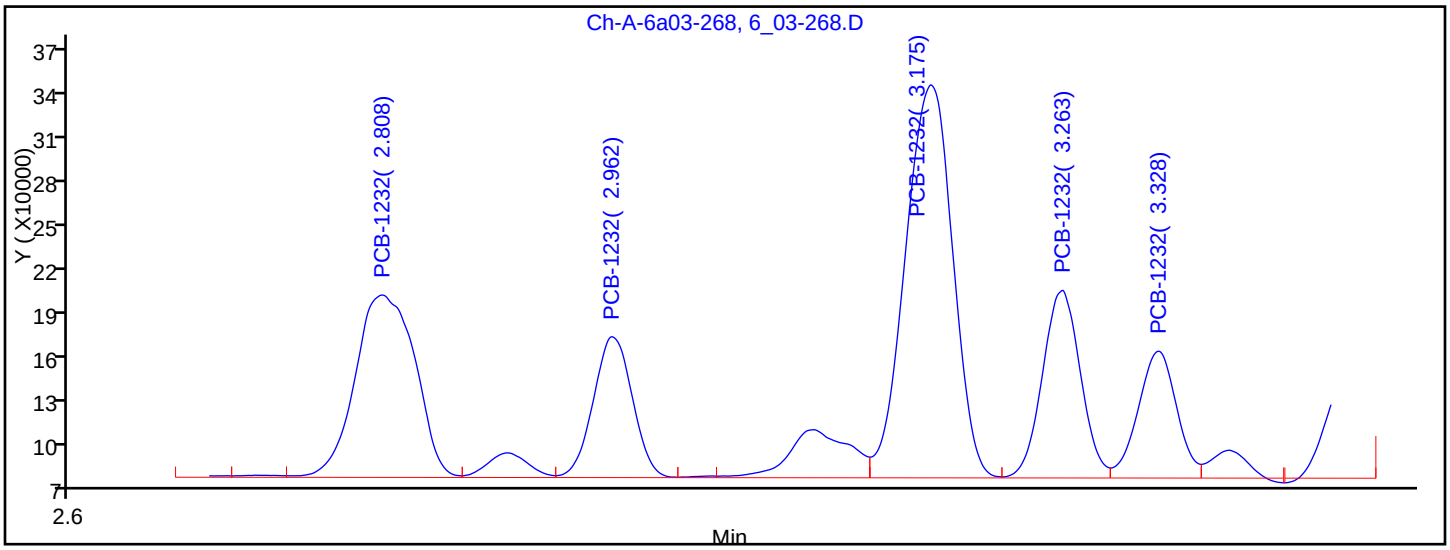
Column: Detector Ch-A-7A136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.808	Response = 0
2.962	Response = 172844
3.175	Response = 587569
3.263	Response = 223399
3.328	Response = 152643



Manual Integration Results

2.808	Response = 347066	M
2.962	Response = 174507	M
3.175	Response = 590680	M
3.263	Response = 226155	M
3.328	Response = 155094	M

Reviewer: owenj, 10-Nov-2017 12:57:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

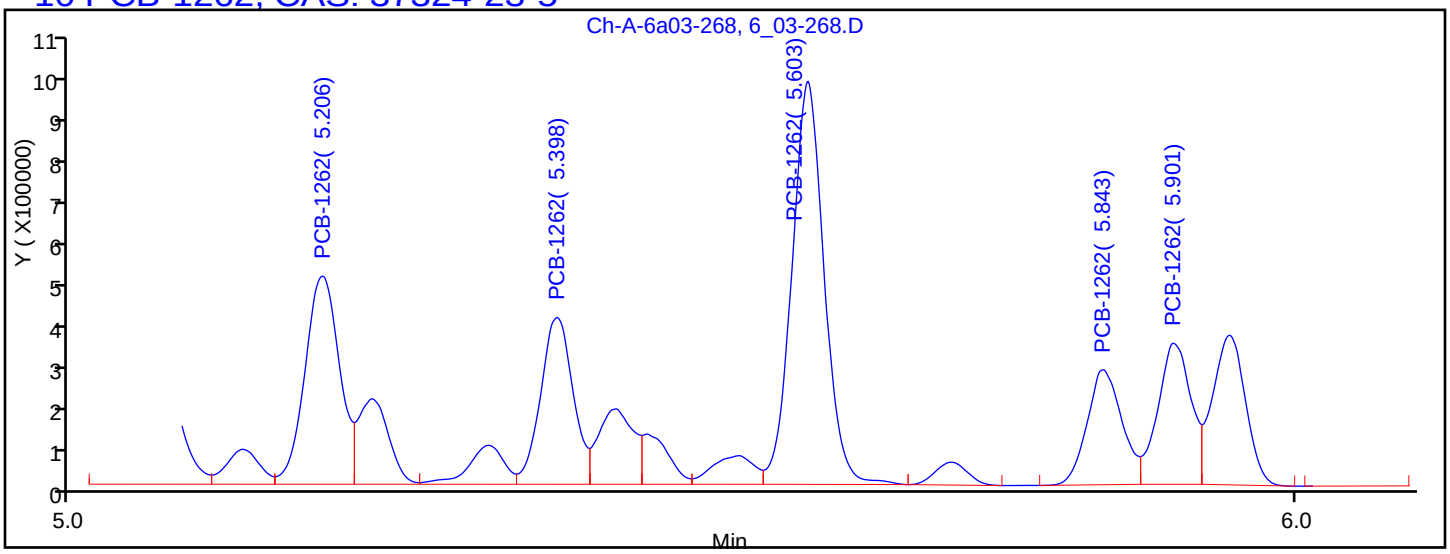
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-268.D

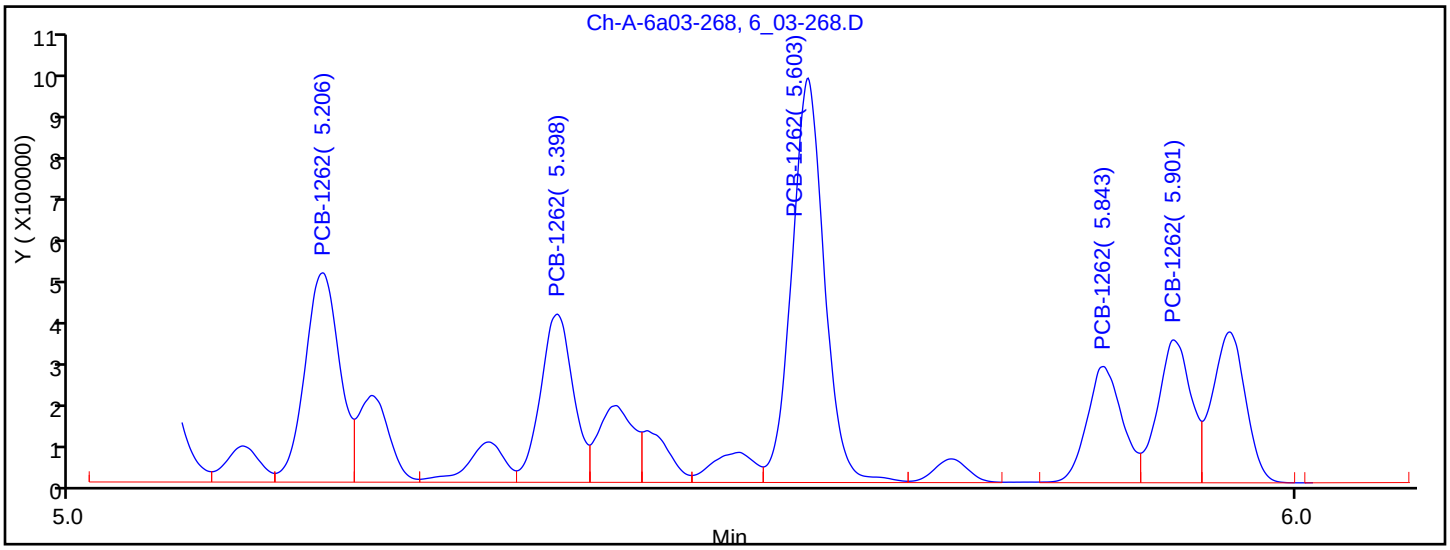
Injection Date:	10-Nov-2017 11:53:46	Instrument ID:	HP6890-6		
Lims ID:	CCV				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

10 PCB-1262, CAS: 37324-23-5



Processing Integration Results

5.206	Response = 939221
5.398	Response = 707141
5.603	Response = 1693766
5.843	Response = 522882
5.901	Response = 609138



Manual Integration Results

5.206	Response = 950342	M
5.398	Response = 718673	M
5.603	Response = 1716766	M
5.843	Response = 535977	M
5.901	Response = 621486	M

Reviewer: owenj, 10-Nov-2017 12:57:09

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/6 Calibration Date: 11/10/2017 11:53

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 19:02

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/28/2017 19:34

Lab File ID: 6_03-268.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0208	0.0242		0.581	0.500	16.2	20.0
PCB-1232 Peak 2	Ave	0.0220	0.0259		0.589	0.500	17.8	20.0
PCB-1232 Peak 3	Ave	0.0412	0.0489		0.594	0.500	18.7	20.0
PCB-1232 Peak 4	Ave	0.0158	0.0187		0.593	0.500	18.5	20.0
PCB-1232 Peak 5	Ave	0.0098	0.0115		0.582	0.500	16.5	20.0
PCB-1262 Peak 1	Ave	0.0526	0.0638		0.606	0.500	21.2*	20.0
PCB-1262 Peak 2	Ave	0.0467	0.0564		0.604	0.500	20.8*	20.0
PCB-1262 Peak 3	Ave	0.1038	0.1225		0.590	0.500	18.0	20.0
PCB-1262 Peak 4	Ave	0.0415	0.0496		0.598	0.500	19.5	20.0
PCB-1262 Peak 5	Ave	0.0622	0.0736		0.592	0.500	18.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/6 Calibration Date: 11/10/2017 11:53

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 19:02

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/28/2017 19:34

Lab File ID: 6_03-268.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.31	2.30	2.33
PCB-1232 Peak 2	2.66	2.64	2.67
PCB-1232 Peak 3	2.98	2.97	3.00
PCB-1232 Peak 4	3.10	3.09	3.12
PCB-1232 Peak 5	3.20	3.19	3.22
PCB-1262 Peak 1	4.93	4.91	4.94
PCB-1262 Peak 2	5.19	5.18	5.21
PCB-1262 Peak 3	5.33	5.31	5.34
PCB-1262 Peak 4	5.63	5.61	5.64
PCB-1262 Peak 5	5.66	5.65	5.68

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-268.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 10-Nov-2017 11:53:46 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 14:31:10 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 14:31:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.186	1.186	0.000	18734932	0.5000	0.5000	
2	1.183	1.183	0.000	17496972	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.808	2.808	0.000	347066	0.5000	0.4903	M
1	2.962	2.962	0.000	174507	0.5000	0.4453	M
1	3.175	3.175	0.000	590680	0.5000	0.4048	M
1	3.263	3.263	0.000	226155	0.5000	0.4062	M
1	3.328	3.328	0.000	155094	0.5000	0.4095	M
		Average of Peak Amounts =				0.4312	
2	2.312	2.312	0.000	423752	0.5000	0.5811	
2	2.655	2.655	0.000	453827	0.5000	0.5890	
2	2.980	2.980	0.000	856263	0.5000	0.5937	
2	3.101	3.101	0.000	327868	0.5000	0.5925	
2	3.200	3.200	0.000	200433	0.5000	0.5823	
		Average of Peak Amounts =				0.5877	
						RPD = 30.72	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	5.206	5.206	0.000	950342	0.5000	0.3712	M
1	5.398	5.398	0.000	718673	0.5000	0.3633	M
1	5.603	5.603	0.000	1716766	0.5000	0.3638	M
1	5.843	5.843	0.000	535977	0.5000	0.3654	M
1	5.901	5.901	0.000	621486	0.5000	0.3582	M
		Average of Peak Amounts =				0.3644	
2	4.926	4.926	0.000	1115454	0.5000	0.6061	
2	5.191	5.191	0.000	987339	0.5000	0.6041	
2	5.328	5.328	0.000	2142470	0.5000	0.5899	
2	5.625	5.625	0.000	868287	0.5000	0.5976	
2	5.663	5.663	0.000	1287907	0.5000	0.5920	
		Average of Peak Amounts =				0.5979	
						RPD = 48.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00015 Amount Added: 1.00 Units: mL

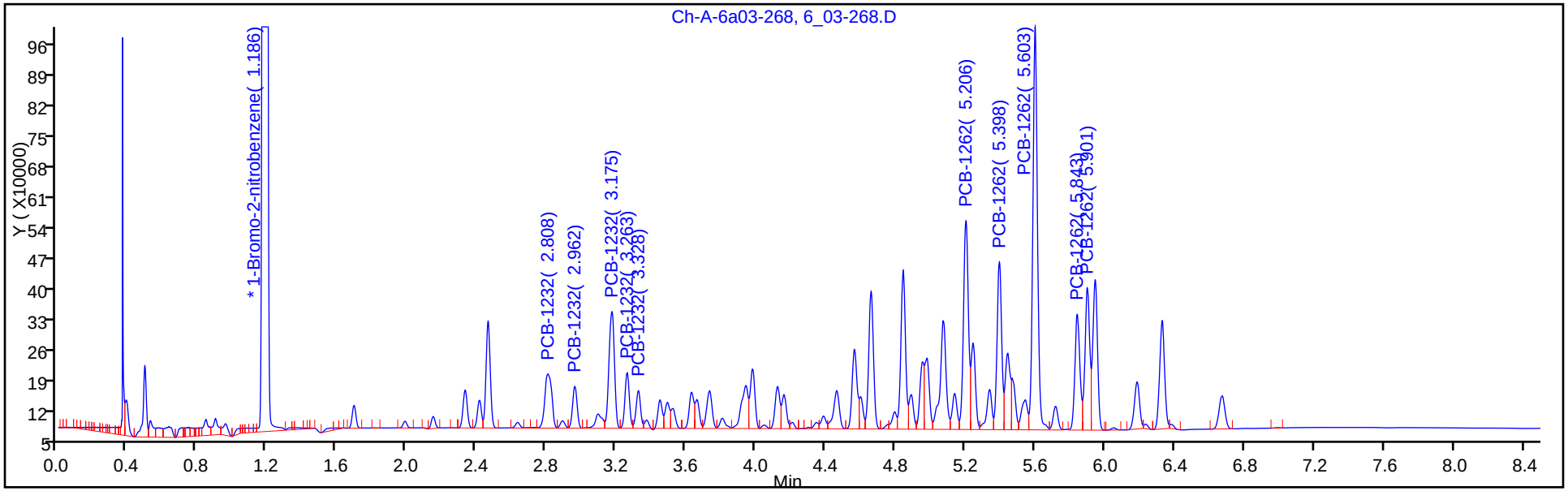
Report Date: 10-Nov-2017 14:31:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

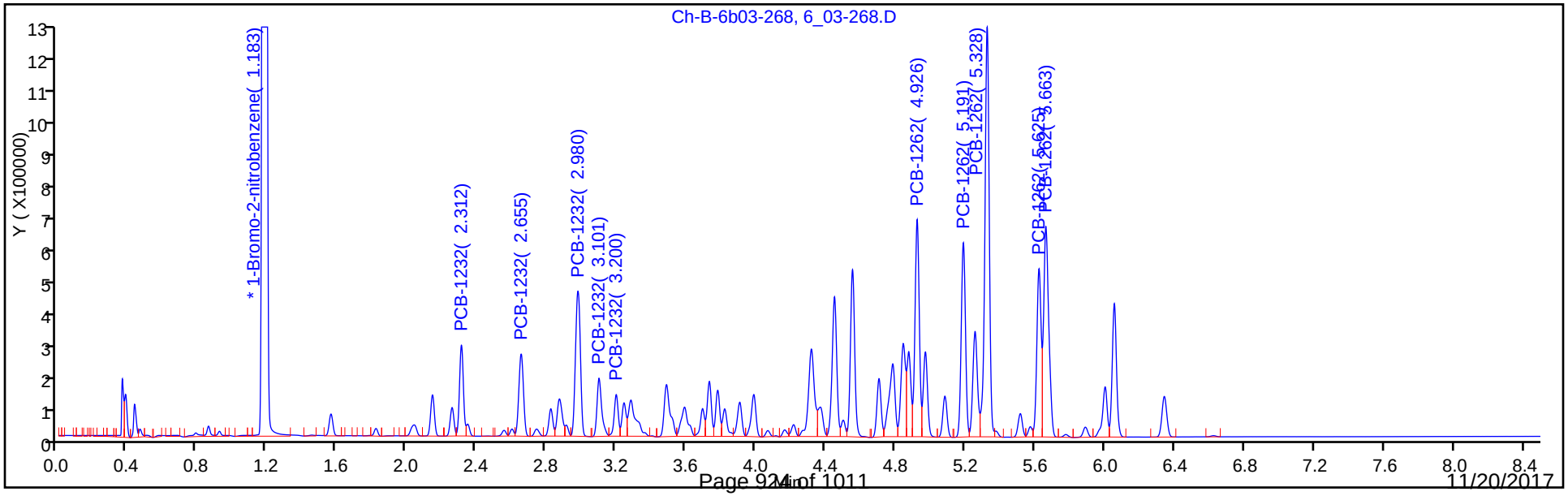
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-268.D

Injection Date:	10-Nov-2017 11:53:46	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/7 Calibration Date: 11/10/2017 12:09

Instrument ID: HP6890-6 Calib Start Date: 10/30/2017 14:11

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 14:43

Lab File ID: 6_03-269.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0750	0.0609		0.406	0.500	-18.8	20.0
PCB-1242 Peak 2	Ave	0.0282	0.0229		0.406	0.500	-18.7	20.0
PCB-1242 Peak 3	Ave	0.0379	0.0312		0.412	0.500	-17.7	20.0
PCB-1242 Peak 4	Ave	0.0266	0.0227		0.428	0.500	-14.4	20.0
PCB-1242 Peak 5	Ave	0.0266	0.0220		0.414	0.500	-17.2	20.0
PCB-1268 Peak 1	Ave	0.1516	0.1107		0.365	0.500	-27.0*	20.0
PCB-1268 Peak 2	Ave	0.1367	0.1012		0.370	0.500	-26.0*	20.0
PCB-1268 Peak 3	Ave	0.1101	0.0826		0.375	0.500	-25.0*	20.0
PCB-1268 Peak 4	Ave	0.0353	0.0355		0.502	0.500	0.4	20.0
PCB-1268 Peak 5	Ave	0.3537	0.2773		0.392	0.500	-21.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/7 Calibration Date: 11/10/2017 12:09

Instrument ID: HP6890-6 Calib Start Date: 10/30/2017 14:11

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 14:43

Lab File ID: 6_03-269.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.18	3.16	3.19
PCB-1242 Peak 2	3.26	3.25	3.28
PCB-1242 Peak 3	3.94	3.93	3.96
PCB-1242 Peak 4	3.98	3.97	4.00
PCB-1242 Peak 5	4.13	4.11	4.14
PCB-1268 Peak 1	5.90	5.89	5.92
PCB-1268 Peak 2	5.95	5.93	5.96
PCB-1268 Peak 3	6.17	6.16	6.19
PCB-1268 Peak 4	6.33	6.32	6.35
PCB-1268 Peak 5	6.68	6.66	6.69

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-269.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 10-Nov-2017 12:09:46 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 12:57:54 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 12:57:54

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.186	1.186	0.000	17840336	0.5000	0.5000	M
2	1.183	1.183	0.000	16776424	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							M
1	3.175	3.175	0.000	1086672	0.5000	0.4059	
1	3.263	3.263	0.000	408629	0.5000	0.4064	
1	3.944	3.944	0.000	556667	0.5000	0.4116	M
1	3.980	3.980	0.000	405425	0.5000	0.4279	M
1	4.126	4.126	0.000	392856	0.5000	0.4140	M
		Average of Peak Amounts =				0.4132	
2	2.981	2.981	0.000	1552908	0.5000	0.5918	
2	3.488	3.488	0.000	721297	0.5000	0.5973	
2	3.733	3.733	0.000	559740	0.5000	0.6014	
2	3.782	3.782	0.000	460294	0.5000	0.5942	
2	3.989	3.989	0.000	500586	0.5000	0.6634	
		Average of Peak Amounts =				0.6096	
						RPD = 38.41	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							M
1	5.902	5.902	0.000	1975007	0.5000	0.3652	M
1	5.946	5.946	0.000	1804777	0.5000	0.3700	M
1	6.173	6.173	0.000	1473665	0.5000	0.3752	M
1	6.332	6.332	0.000	632383	0.5000	0.5018	EM
1	6.675	6.675	0.000	4946801	0.5000	0.3920	M
		Average of Peak Amounts =				0.4008	
2	5.623	5.623	0.000	2420651	0.5000	0.6194	
2	5.663	5.663	0.000	2206096	0.5000	0.5961	
2	5.891	5.891	0.000	1825543	0.5000	0.6042	
2	6.057	6.057	0.000	777244	0.5000	0.5930	
2	6.344	6.344	0.000	5929317	0.5000	0.6035	
		Average of Peak Amounts =				0.6032	
						RPD = 40.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00015 Amount Added: 1.00 Units: mL

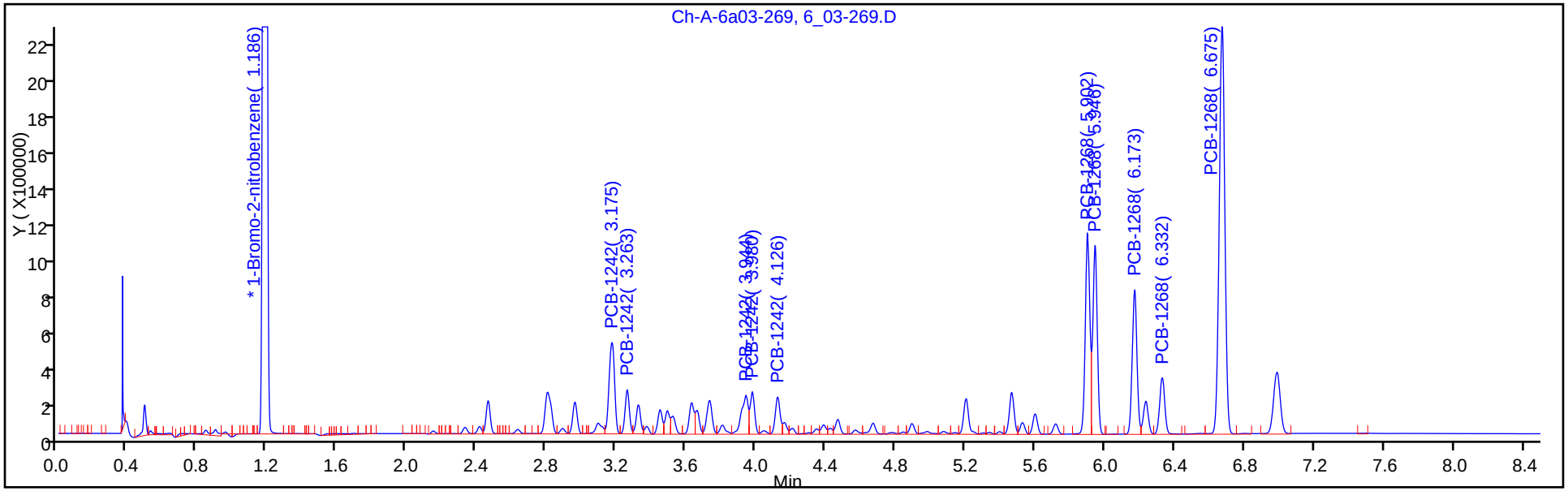
Report Date: 10-Nov-2017 12:57:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

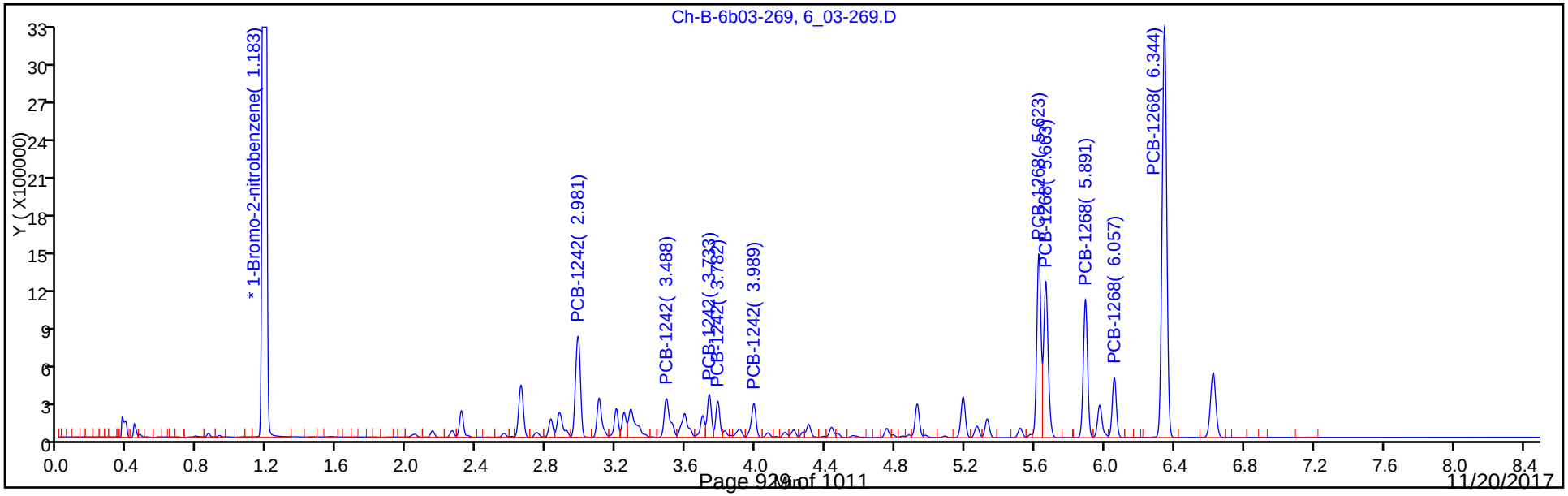
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Injection Date:	10-Nov-2017 12:09:46	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

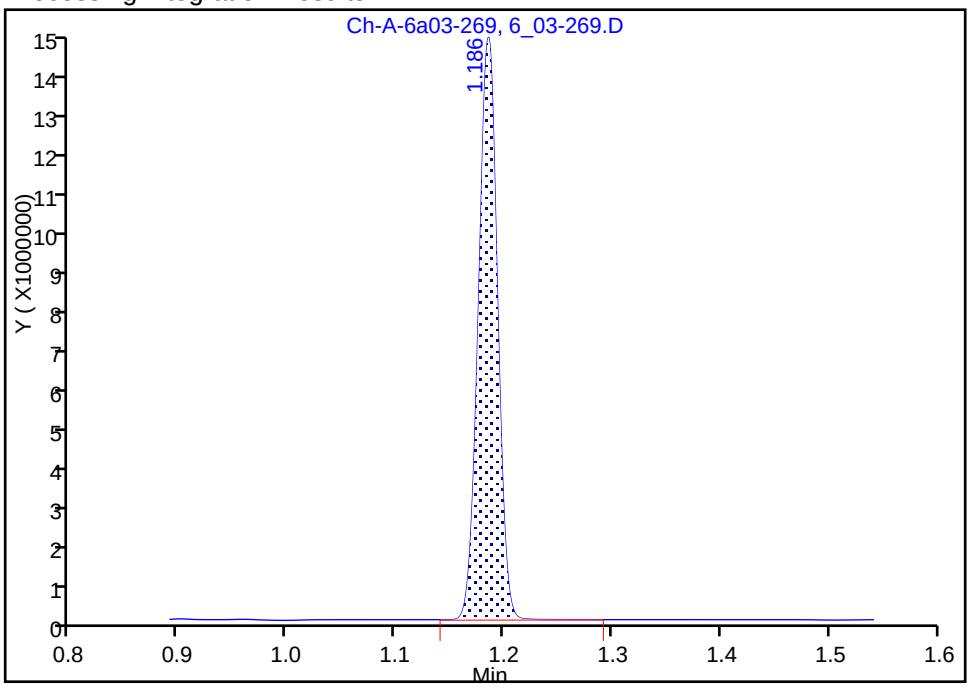
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-269.D
Injection Date: 10-Nov-2017 12:09:46 Instrument ID: HP6890-6
Lims ID: CCV
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

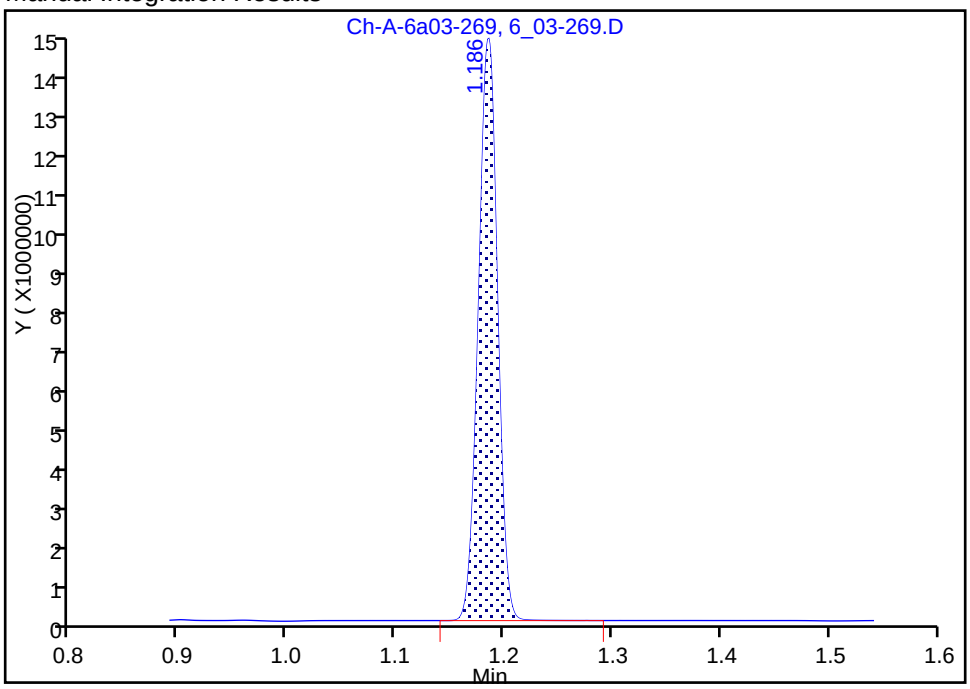
Processing Integration Results

RT: 1.19
Area: 17914306
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.19
Area: 17840336
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 10-Nov-2017 12:57:29
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 10-Nov-2017 12:57:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-269.D

Injection Date: 10-Nov-2017 12:09:46 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

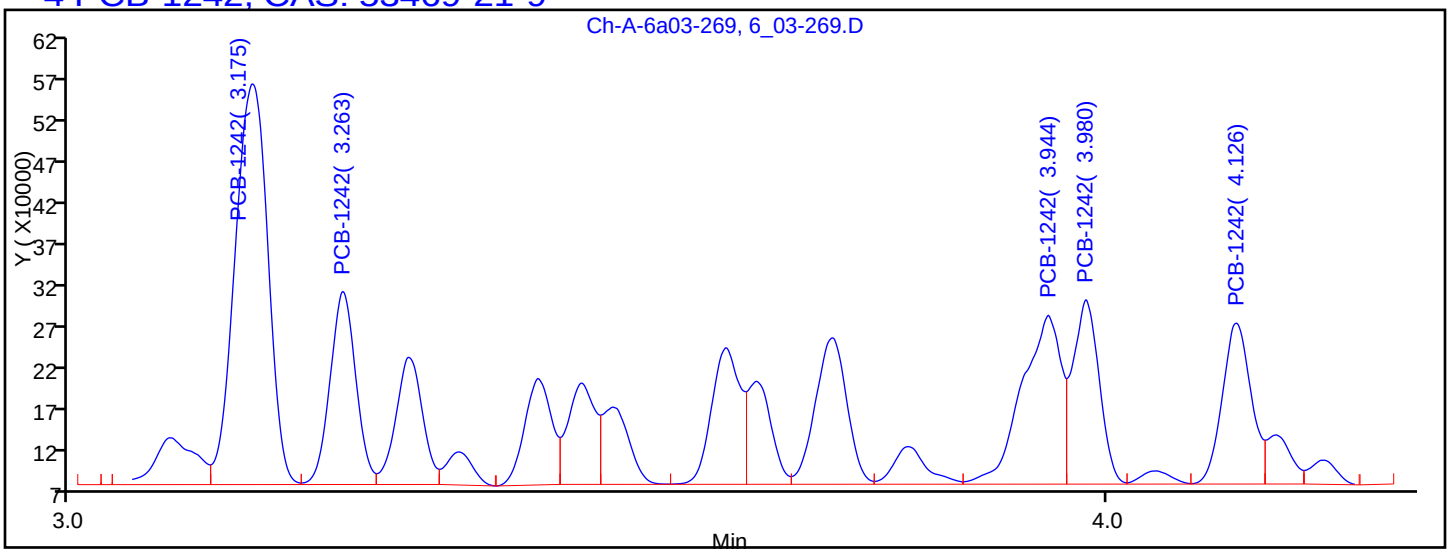
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

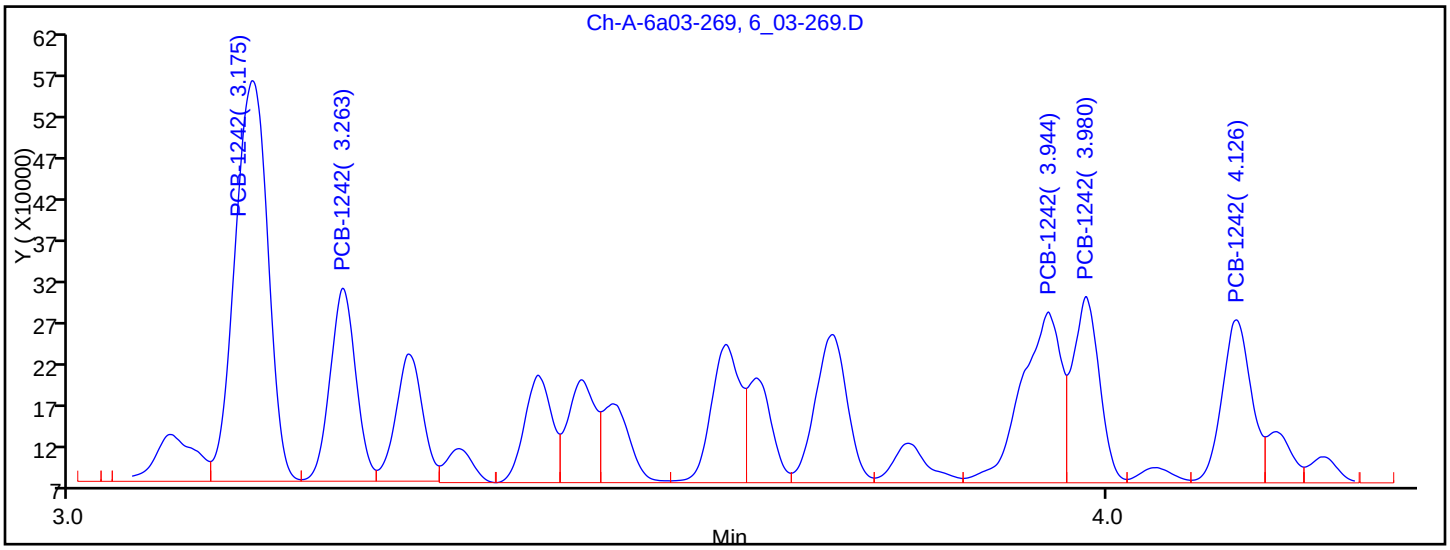
Column: Detector Ch-A-7A136

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.175	Response = 1086672	
3.263	Response = 408629	
3.944	Response = 542558	
3.980	Response = 396915	
4.126	Response = 381855	



Manual Integration Results

3.175	Response = 1086672	
3.263	Response = 408629	
3.944	Response = 556667	M
3.980	Response = 405425	M
4.126	Response = 392856	M

Reviewer: owenj, 10-Nov-2017 12:57:31

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 10-Nov-2017 12:57:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-269.D

Injection Date: 10-Nov-2017 12:09:46 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

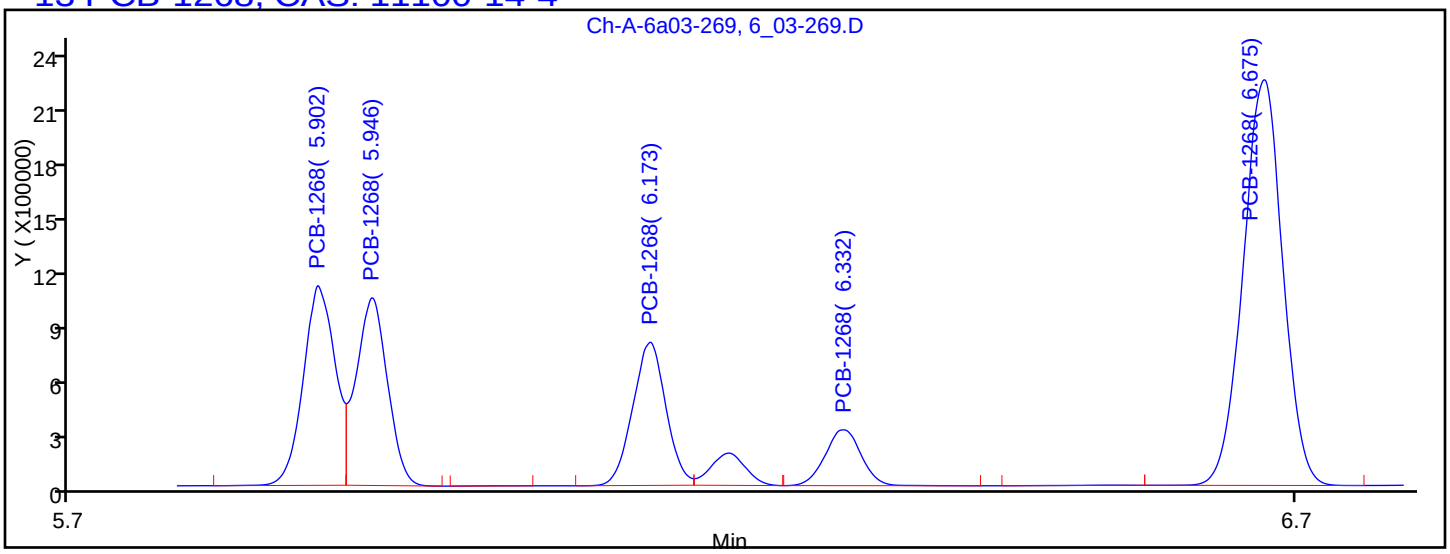
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

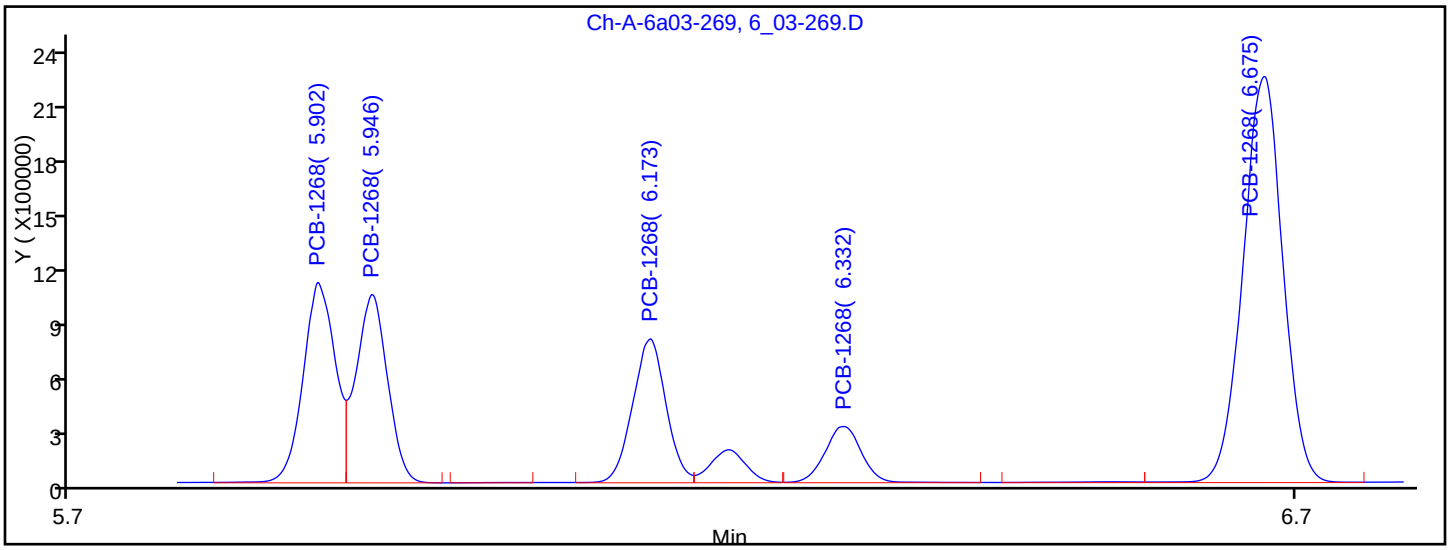
Column: Detector Ch-A-7A136

13 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.902	Response = 1952247
5.946	Response = 1793003
6.173	Response = 1455749
6.332	Response = 616301
6.675	Response = 4918727



Manual Integration Results

5.902	Response = 1975007	M
5.946	Response = 1804777	M
6.173	Response = 1473665	M
6.332	Response = 632383	M
6.675	Response = 4946801	M

Reviewer: owenj, 10-Nov-2017 12:57:49

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/7 Calibration Date: 11/10/2017 12:09

Instrument ID: HP6890-6 Calib Start Date: 10/30/2017 14:11

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/30/2017 14:43

Lab File ID: 6_03-269.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0782	0.0926		0.592	0.500	18.4	20.0
PCB-1242 Peak 2	Ave	0.0360	0.0430		0.597	0.500	19.5	20.0
PCB-1242 Peak 3	Ave	0.0277	0.0334		0.601	0.500	20.3*	20.0
PCB-1242 Peak 4	Ave	0.0231	0.0274		0.594	0.500	18.8	20.0
PCB-1242 Peak 5	Ave	0.0225	0.0298		0.663	0.500	32.7*	20.0
PCB-1268 Peak 1	Ave	0.1165	0.1443		0.619	0.500	23.9*	20.0
PCB-1268 Peak 2	Ave	0.1103	0.1315		0.596	0.500	19.2	20.0
PCB-1268 Peak 3	Ave	0.0900	0.1088		0.604	0.500	20.8*	20.0
PCB-1268 Peak 4	Ave	0.0391	0.0463		0.593	0.500	18.6	20.0
PCB-1268 Peak 5	Ave	0.2928	0.3534		0.603	0.500	20.7*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/7 Calibration Date: 11/10/2017 12:09

Instrument ID: HP6890-6 Calib Start Date: 10/30/2017 14:11

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/30/2017 14:43

Lab File ID: 6_03-269.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.98	2.97	3.00
PCB-1242 Peak 2	3.49	3.47	3.50
PCB-1242 Peak 3	3.73	3.72	3.75
PCB-1242 Peak 4	3.78	3.77	3.80
PCB-1242 Peak 5	3.99	3.97	4.00
PCB-1268 Peak 1	5.62	5.61	5.64
PCB-1268 Peak 2	5.66	5.65	5.68
PCB-1268 Peak 3	5.89	5.88	5.91
PCB-1268 Peak 4	6.06	6.04	6.07
PCB-1268 Peak 5	6.34	6.33	6.36

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-269.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 10-Nov-2017 12:09:46 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 12:57:54 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 12:57:54

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.186	1.186	0.000	17840336	0.5000	0.5000	M
2	1.183	1.183	0.000	16776424	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							M
1	3.175	3.175	0.000	1086672	0.5000	0.4059	
1	3.263	3.263	0.000	408629	0.5000	0.4064	
1	3.944	3.944	0.000	556667	0.5000	0.4116	M
1	3.980	3.980	0.000	405425	0.5000	0.4279	M
1	4.126	4.126	0.000	392856	0.5000	0.4140	M
		Average of Peak Amounts =				0.4132	
2	2.981	2.981	0.000	1552908	0.5000	0.5918	
2	3.488	3.488	0.000	721297	0.5000	0.5973	
2	3.733	3.733	0.000	559740	0.5000	0.6014	
2	3.782	3.782	0.000	460294	0.5000	0.5942	
2	3.989	3.989	0.000	500586	0.5000	0.6634	
		Average of Peak Amounts =				0.6096	
						RPD = 38.41	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13	PCB-1268						M
1	5.902	5.902	0.000	1975007	0.5000	0.3652	M
1	5.946	5.946	0.000	1804777	0.5000	0.3700	M
1	6.173	6.173	0.000	1473665	0.5000	0.3752	M
1	6.332	6.332	0.000	632383	0.5000	0.5018	EM
1	6.675	6.675	0.000	4946801	0.5000	0.3920	M
		Average of Peak Amounts =				0.4008	
2	5.623	5.623	0.000	2420651	0.5000	0.6194	
2	5.663	5.663	0.000	2206096	0.5000	0.5961	
2	5.891	5.891	0.000	1825543	0.5000	0.6042	
2	6.057	6.057	0.000	777244	0.5000	0.5930	
2	6.344	6.344	0.000	5929317	0.5000	0.6035	
		Average of Peak Amounts =				0.6032	
						RPD = 40.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00015 Amount Added: 1.00 Units: mL

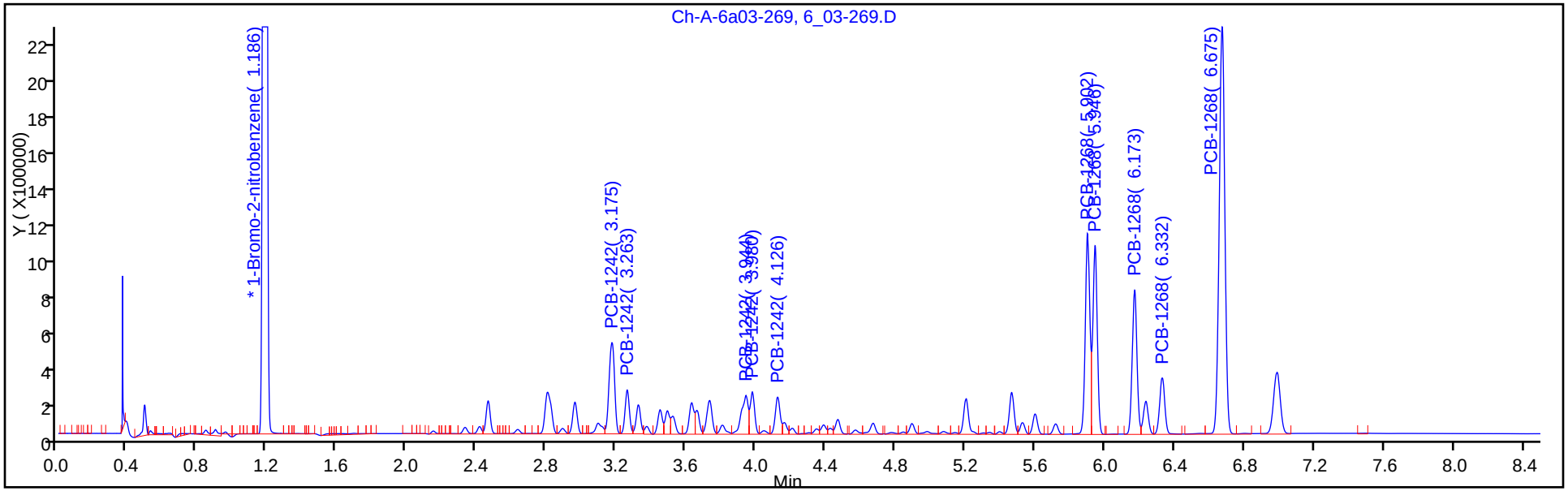
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TestAmerica Buffalo

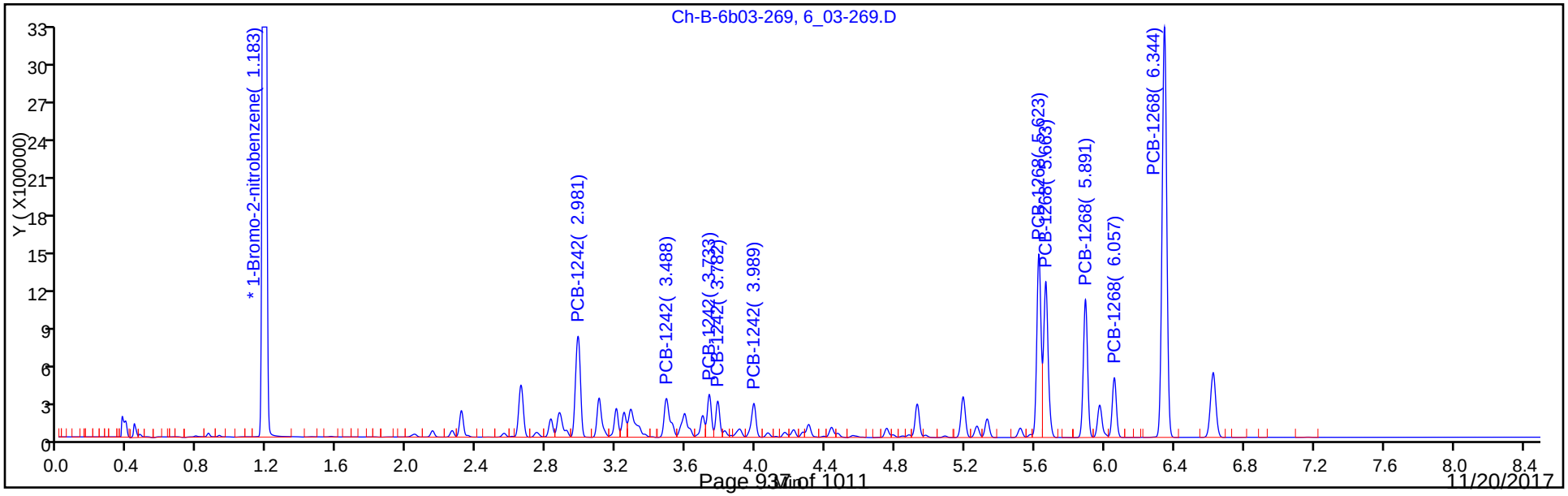
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-269.D

Injection Date:	10-Nov-2017 12:09:46	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/8 Calibration Date: 11/10/2017 12:25

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 21:10

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/28/2017 21:43

Lab File ID: 6_03-270.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0292	0.0185		0.316	0.500	-36.8*	20.0
PCB-1248 Peak 2	Ave	0.0384	0.0384		0.500	0.500	-0.0	20.0
PCB-1248 Peak 3	Ave	0.0639	0.0611		0.478	0.500	-4.4	20.0
PCB-1248 Peak 4	Ave	0.0482	0.0280		0.290	0.500	-42.0*	20.0
PCB-1248 Peak 5	Ave	0.0405	0.0412		0.510	0.500	1.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/8 Calibration Date: 11/10/2017 12:25

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 21:10

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/28/2017 21:43

Lab File ID: 6_03-270.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.46	3.44	3.47
PCB-1248 Peak 2	3.74	3.72	3.75
PCB-1248 Peak 3	3.94	3.93	3.96
PCB-1248 Peak 4	3.98	3.96	3.99
PCB-1248 Peak 5	4.13	4.11	4.14

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-270.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 10-Nov-2017 12:25:36 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 12:58:45 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 12:58:45

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.186	1.186	0.000	15631579	0.5000	0.5000	
2	1.183	1.183	0.000	14427244	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							M
1	3.457	3.457	0.000	288329	0.5000	0.3160	M
1	3.736	3.736	0.000	600519	0.5000	0.4999	M
1	3.944	3.944	0.000	955325	0.5000	0.4782	M
1	3.975	3.975	0.000	437402	0.5000	0.2901	M
1	4.126	4.126	0.000	644546	0.5000	0.5095	M
		Average of Peak Amounts =				0.4187	
2	3.488	3.488	0.000	774666	0.5000	0.6797	
2	3.592	3.592	0.000	467399	0.5000	0.4329	
2	3.733	3.733	0.000	864879	0.5000	0.6461	
2	3.781	3.781	0.000	652571	0.5000	0.6440	
2	3.988	3.988	0.000	516248	0.5000	0.4407	
		Average of Peak Amounts =				0.5687	
						RPD = 30.37	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00015 Amount Added: 1.00 Units: mL

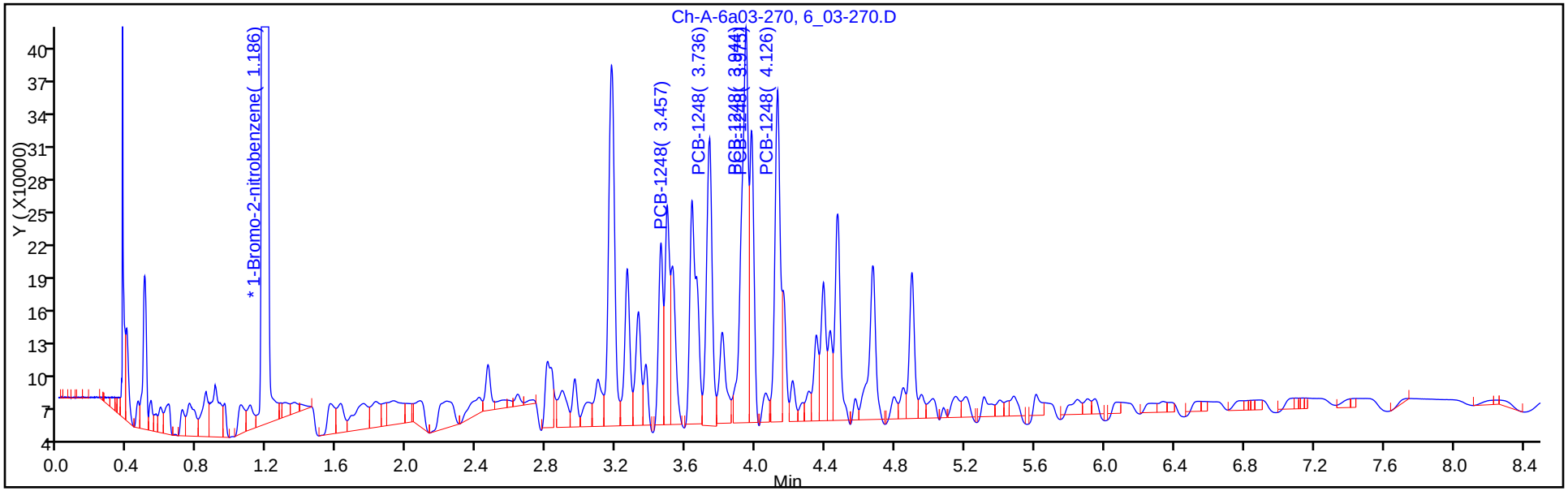
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TestAmerica Buffalo

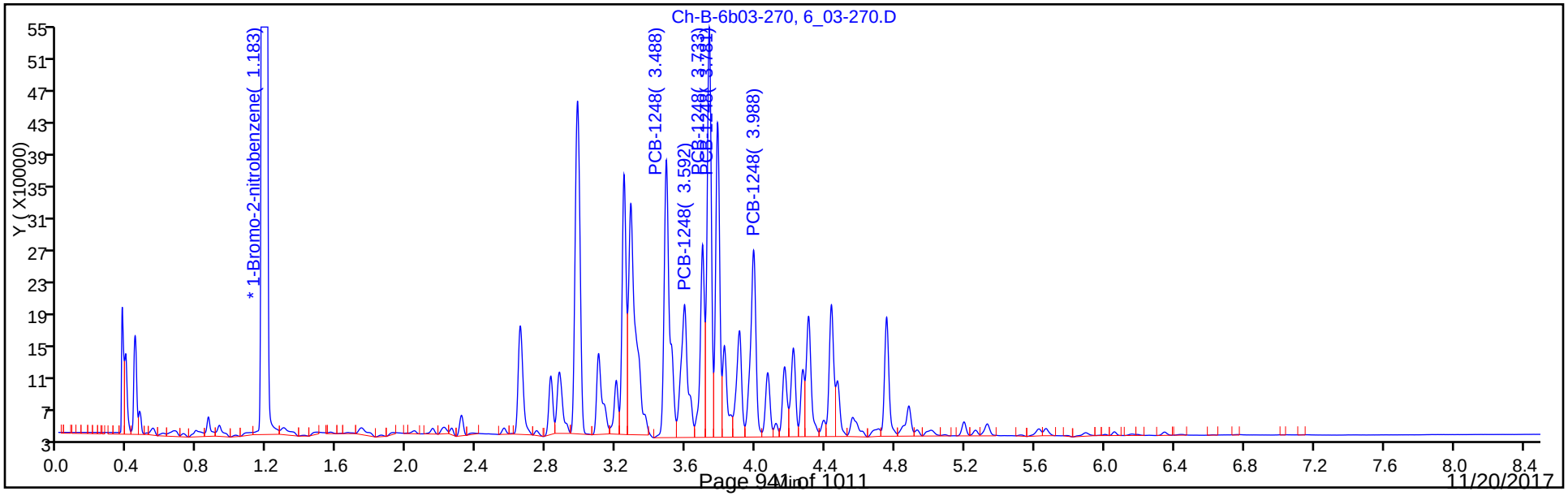
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Injection Date:	10-Nov-2017 12:25:36	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

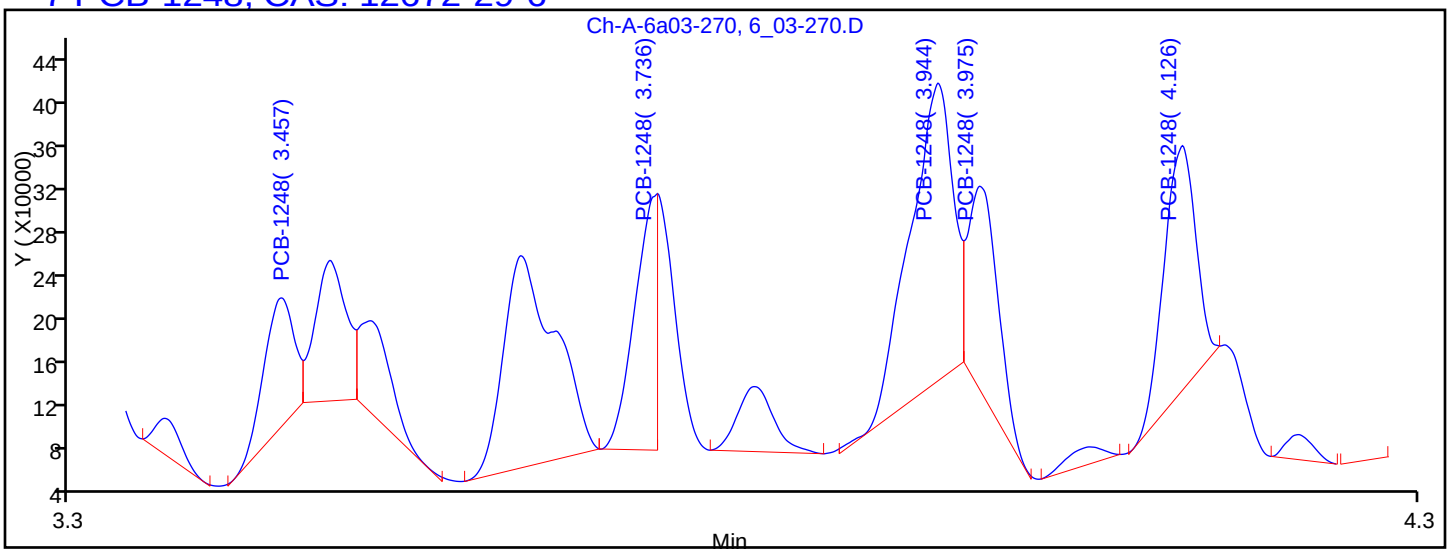


Report Date: 10-Nov-2017 12:58:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

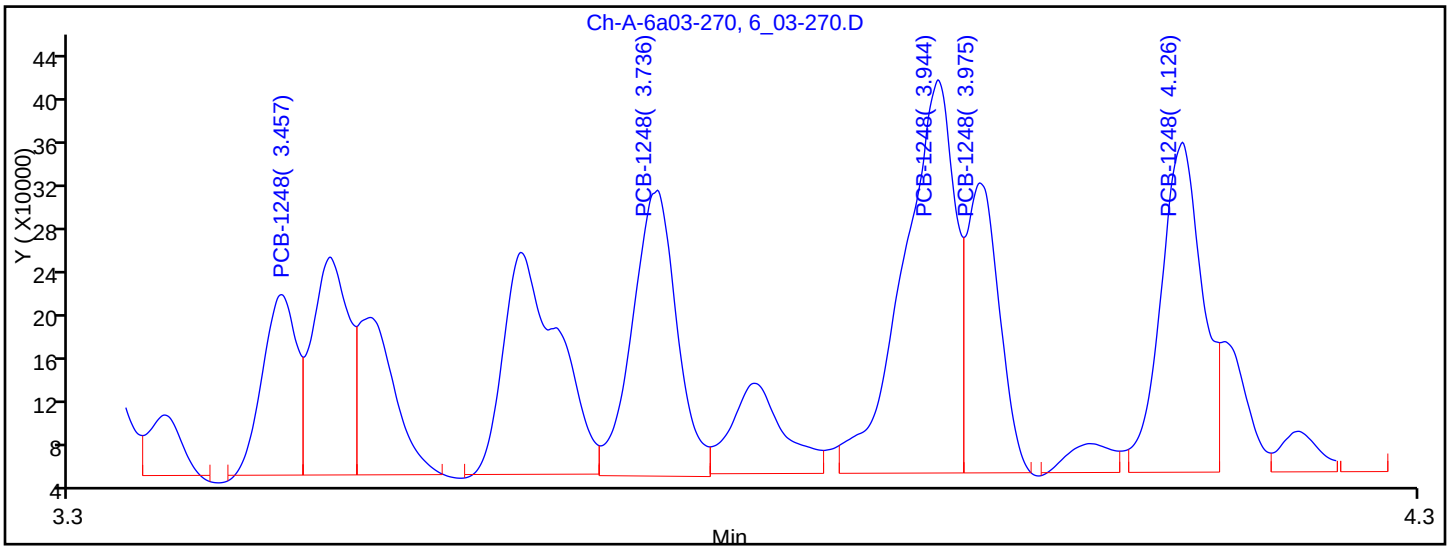
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-270.D
Injection Date: 10-Nov-2017 12:25:36 Instrument ID: HP6890-6
Lims ID: CCV
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.457	Response = 184863
3.736	Response = 261832
3.944	Response = 610204
3.975	Response = 286347
4.126	Response = 368221



Manual Integration Results

3.457	Response = 288329	M
3.736	Response = 600519	M
3.944	Response = 955325	M
3.975	Response = 437402	M
4.126	Response = 644546	M

Reviewer: owenj, 10-Nov-2017 12:58:08
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/8 Calibration Date: 11/10/2017 12:25

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 21:10

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/28/2017 21:43

Lab File ID: 6_03-270.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0395	0.0537		0.680	0.500	35.9*	20.0
PCB-1248 Peak 2	Ave	0.0374	0.0324		0.433	0.500	-13.4	20.0
PCB-1248 Peak 3	Ave	0.0464	0.0600		0.646	0.500	29.2*	20.0
PCB-1248 Peak 4	Ave	0.0351	0.0452		0.644	0.500	28.8*	20.0
PCB-1248 Peak 5	Ave	0.0406	0.0358		0.441	0.500	-11.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Lab Sample ID: CCV 480-386747/8 Calibration Date: 11/10/2017 12:25

Instrument ID: HP6890-6 Calib Start Date: 10/28/2017 21:10

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/28/2017 21:43

Lab File ID: 6_03-270.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.49	3.47	3.50
PCB-1248 Peak 2	3.59	3.58	3.61
PCB-1248 Peak 3	3.73	3.72	3.75
PCB-1248 Peak 4	3.78	3.77	3.80
PCB-1248 Peak 5	3.99	3.97	4.00

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-270.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 10-Nov-2017 12:25:36 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 12:58:45 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 12:58:45

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.186	1.186	0.000	15631579	0.5000	0.5000	
2	1.183	1.183	0.000	14427244	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							M
1	3.457	3.457	0.000	288329	0.5000	0.3160	M
1	3.736	3.736	0.000	600519	0.5000	0.4999	M
1	3.944	3.944	0.000	955325	0.5000	0.4782	M
1	3.975	3.975	0.000	437402	0.5000	0.2901	M
1	4.126	4.126	0.000	644546	0.5000	0.5095	M
		Average of Peak Amounts =				0.4187	
2	3.488	3.488	0.000	774666	0.5000	0.6797	
2	3.592	3.592	0.000	467399	0.5000	0.4329	
2	3.733	3.733	0.000	864879	0.5000	0.6461	
2	3.781	3.781	0.000	652571	0.5000	0.6440	
2	3.988	3.988	0.000	516248	0.5000	0.4407	
		Average of Peak Amounts =				0.5687	
						RPD = 30.37	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00015 Amount Added: 1.00 Units: mL

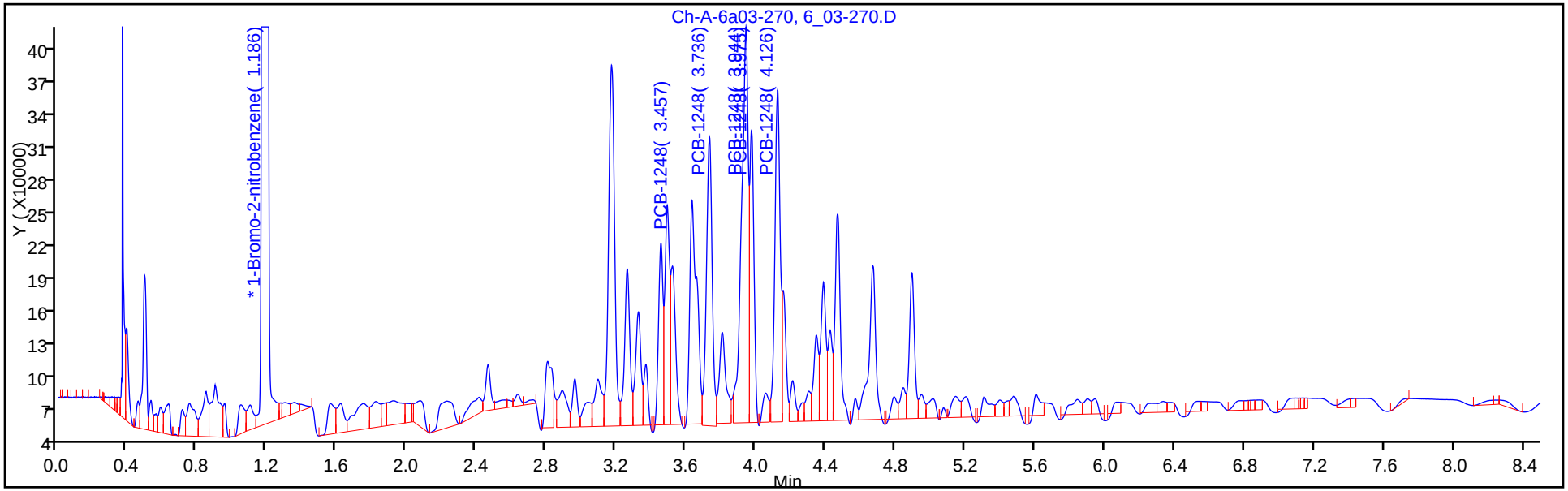
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TestAmerica Buffalo

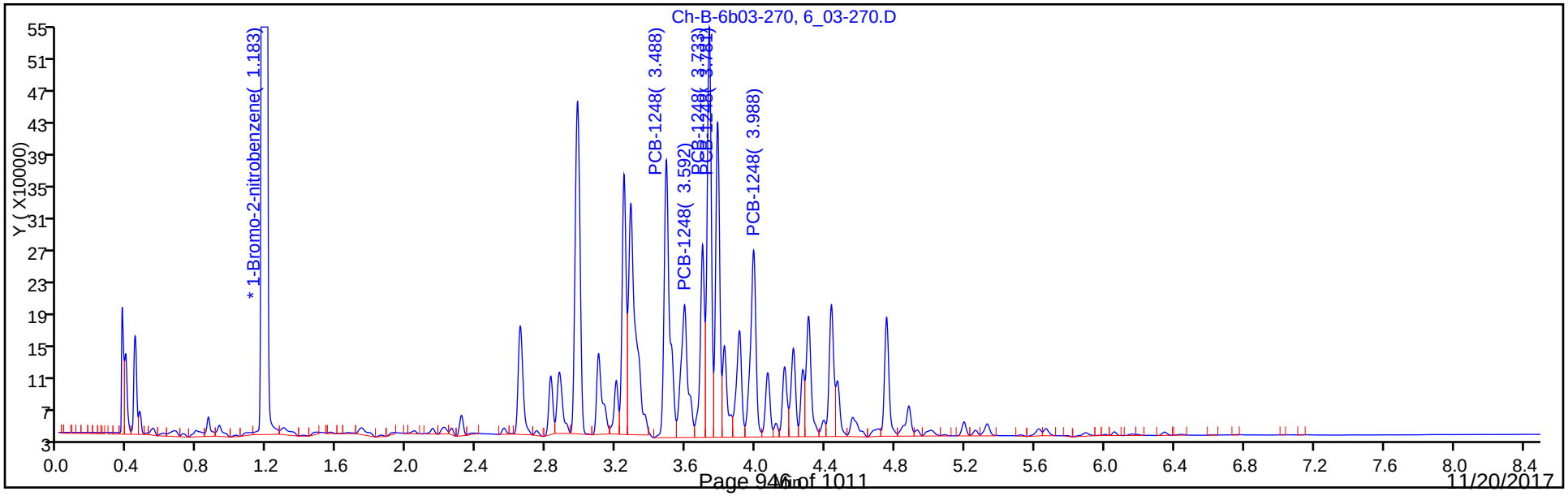
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Injection Date:	10-Nov-2017 12:25:36	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-386487/1-A

Matrix: Solid | Lab File ID: 6_03-272.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.42(g) | Date Analyzed: 11/10/2017 12:57

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.040
11104-28-2	PCB-1221	ND		0.21	0.040
11141-16-5	PCB-1232	ND		0.21	0.040
53469-21-9	PCB-1242	ND		0.21	0.040
12672-29-6	PCB-1248	ND		0.21	0.040
11097-69-1	PCB-1254	ND		0.21	0.097
11096-82-5	PCB-1260	ND		0.21	0.097
37324-23-5	PCB-1262	ND		0.21	0.097
11100-14-4	PCB-1268	ND		0.21	0.097

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	133		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-272.D
Lims ID: MB 480-386487/1-A
Client ID:
Sample Type: MB
Inject. Date: 10-Nov-2017 12:57:27 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:30:18 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:30:18

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.187	1.186	0.001	18336049	0.5000	0.5000	
2	1.184	1.183	0.001	19120331	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.183	2.183	0.001	1052347	0.0200	0.0265	
2	1.871	1.869	0.002	1155834	0.0200	0.0232	
						RPD = 13.08	
$ 15 DCB Decachlorobiphenyl							
1	6.988	6.987	0.001	510339	0.0200	0.0229	
2	6.624	6.620	0.004	670275	0.0200	0.0273	
						RPD = 17.35	

Reagents:

PCB IS 1B2NB_00041 Amount Added: 10.00 Units: uL Run Reagent
COPPER_00066 Amount Added: 1.00 Units: g Run Reagent

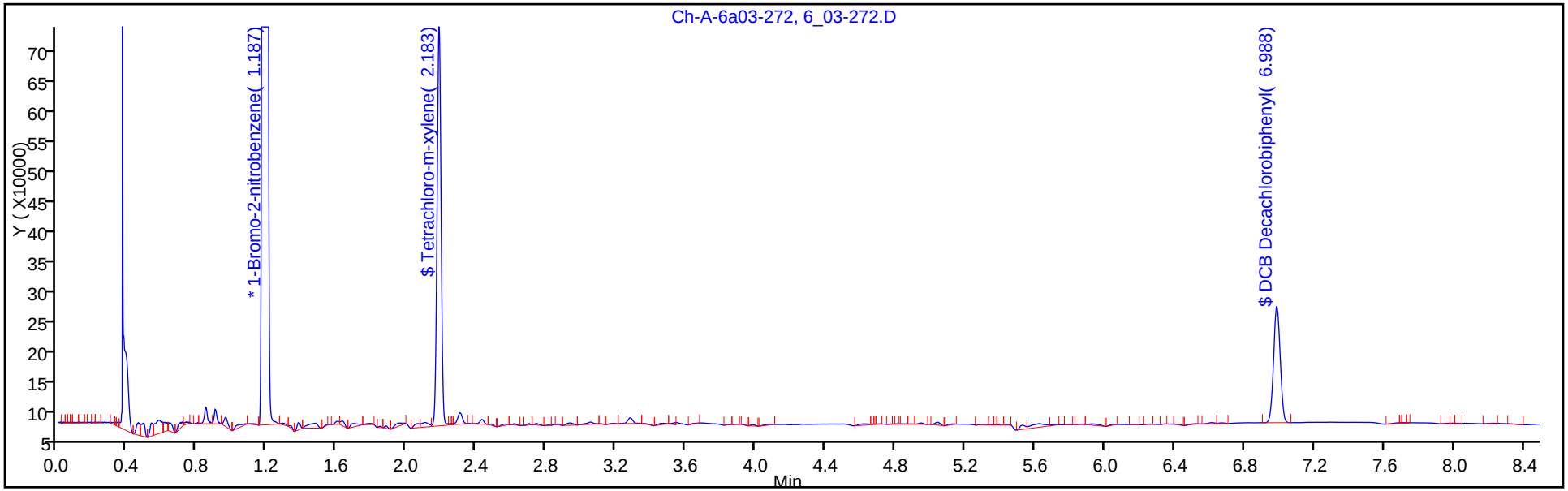
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TestAmerica Buffalo

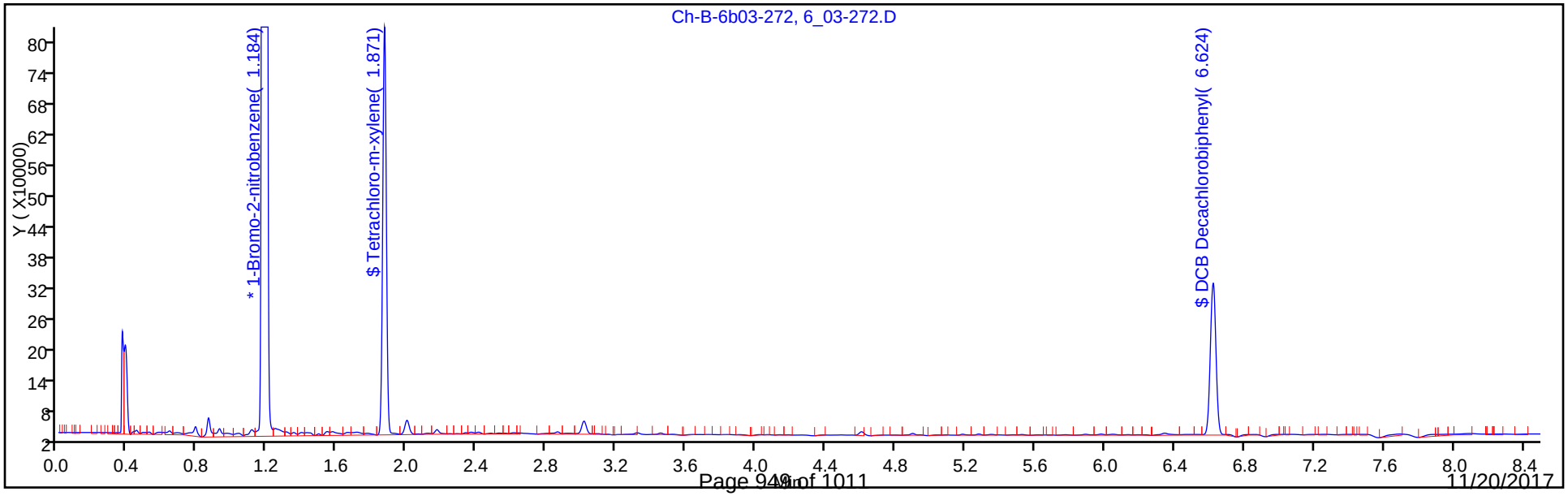
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-272.D

Injection Date:	10-Nov-2017 12:57:27	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	MB 480-386487/1-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-386487/1-A

Matrix: Solid | Lab File ID: 6_03-272.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.42(g) | Date Analyzed: 11/10/2017 12:57

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		60-154
2051-24-3	DCB Decachlorobiphenyl	137		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-272.D
Lims ID: MB 480-386487/1-A
Client ID:
Sample Type: MB
Inject. Date: 10-Nov-2017 12:57:27 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:30:18 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:30:18

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.187	1.186	0.001	18336049	0.5000	0.5000	
2	1.184	1.183	0.001	19120331	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.183	2.183	0.001	1052347	0.0200	0.0265	
2	1.871	1.869	0.002	1155834	0.0200	0.0232	
						RPD = 13.08	
$ 15 DCB Decachlorobiphenyl							
1	6.988	6.987	0.001	510339	0.0200	0.0229	
2	6.624	6.620	0.004	670275	0.0200	0.0273	
						RPD = 17.35	

Reagents:

PCB IS 1B2NB_00041 Amount Added: 10.00 Units: uL Run Reagent
COPPER_00066 Amount Added: 1.00 Units: g Run Reagent

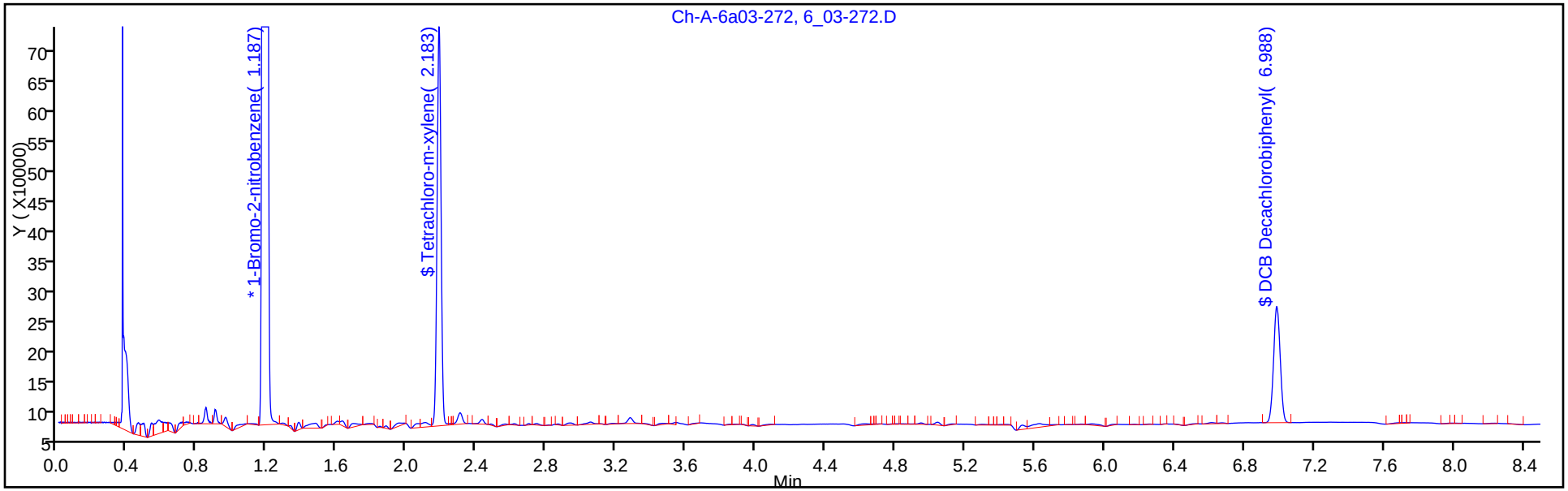
Report Date: 10-Nov-2017 15:30:19 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

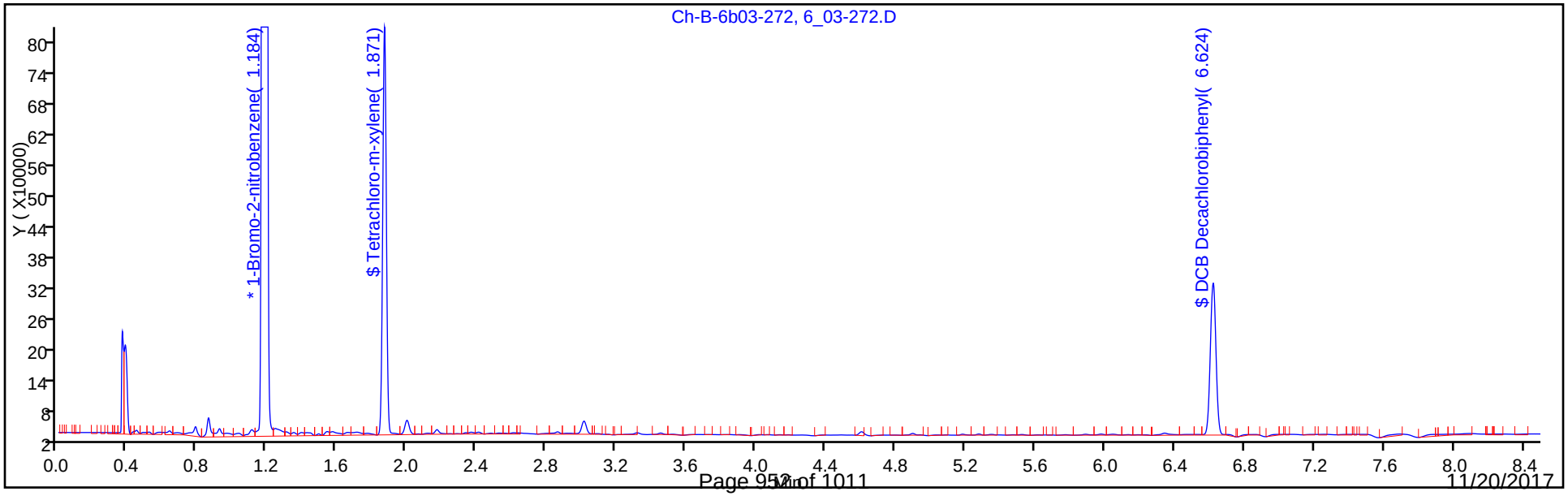
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-272.D

Injection Date:	10-Nov-2017 12:57:27	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	MB 480-386487/1-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-386487/2-A

Matrix: Solid | Lab File ID: 6_03-273.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.38(g) | Date Analyzed: 11/10/2017 13:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.30		0.21	0.041
11096-82-5	PCB-1260	2.38		0.21	0.098

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	143		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-273.D
Lims ID: LCS 480-386487/2-A
Client ID:
Sample Type: LCS
Inject. Date: 10-Nov-2017 13:13:24 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:30:18 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:30:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.187	1.186	0.001	20070548	0.5000	0.5000	
2	1.184	1.183	0.001	20437116	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.184	2.183	0.002	1239754	0.0200	0.0285	
2	1.872	1.869	0.003	1365239	0.0200	0.0257	
						RPD = 10.45	
6 PCB-1016							
1	2.805	2.804	0.001	787700	0.5000	0.6302	
1	2.963	2.962	0.001	434265	0.5000	0.5557	
1	3.176	3.174	0.002	1598848	0.5000	0.5246	
1	3.263	3.261	0.001	603461	0.5000	0.5125	
1	3.328	3.326	0.002	411169	0.5000	0.5091	
		Average of Peak Amounts =				0.5464	
2	2.653	2.651	0.002	1080342	0.5000	0.5937	
2	2.983	2.979	0.003	2335539	0.5000	0.6327	
2	3.102	3.099	0.003	863686	0.5000	0.6062	
2	3.201	3.198	0.003	529300	0.5000	0.6093	
2	3.488	3.485	0.003	1036292	0.5000	0.6145	
		Average of Peak Amounts =				0.6113	
						RPD = 11.20	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.663	4.660	0.002	1029898	0.5000	0.5339	
1	4.846	4.843	0.003	1195065	0.5000	0.5592	
1	5.077	5.077	0.000	1680890	0.5000	0.5784	
1	5.603	5.601	0.002	1800246	0.5000	0.6010	
1	5.845	5.843	0.003	892642	0.5000	0.5543	
		Average of Peak Amounts =				0.5654	
2	4.879	4.877	0.002	1471497	0.5000	0.6562	
2	4.926	4.925	0.001	828941	0.5000	0.6620	
2	5.193	5.190	0.003	836671	0.5000	0.5597	
2	5.328	5.326	0.002	2305609	0.5000	0.6651	
2	5.665	5.663	0.003	1370914	0.5000	0.6532	
		Average of Peak Amounts =				0.6392	
						RPD = 12.26	
$ 15 DCB Decachlorobiphenyl							
1	6.991	6.987	0.004	607020	0.0200	0.0249	
2	6.623	6.620	0.003	797726	0.0200	0.0305	
						RPD = 19.98	

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

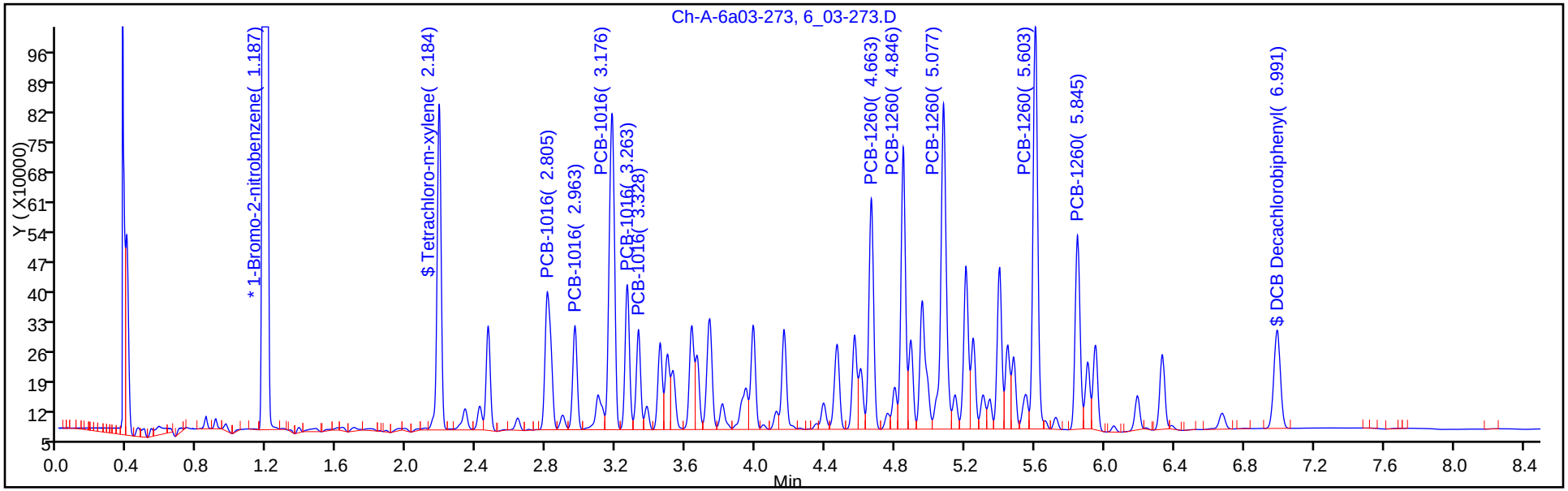
Report Date: 10-Nov-2017 15:30:31 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

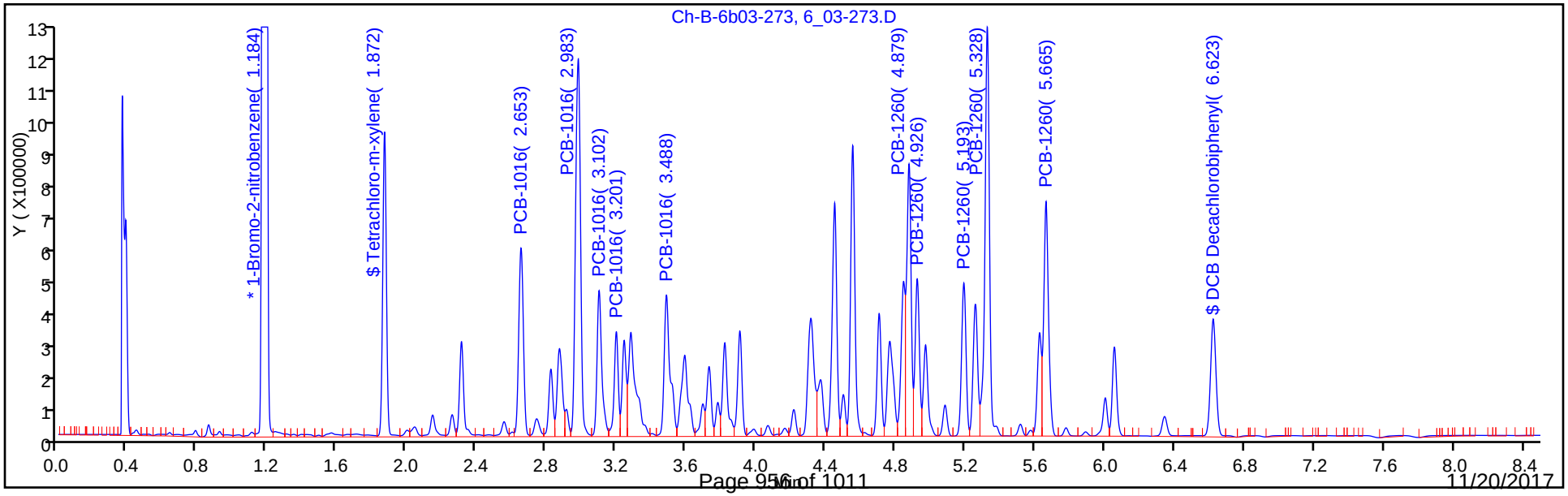
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-273.D

Injection Date:	10-Nov-2017 13:13:24	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	LCS 480-386487/2-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-386487/2-A

Matrix: Solid | Lab File ID: 6_03-273.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.38(g) | Date Analyzed: 11/10/2017 13:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	128		60-154
2051-24-3	DCB Decachlorobiphenyl	152		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-273.D
Lims ID: LCS 480-386487/2-A
Client ID:
Sample Type: LCS
Inject. Date: 10-Nov-2017 13:13:24 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:30:18 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:30:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.187	1.186	0.001	20070548	0.5000	0.5000	
2	1.184	1.183	0.001	20437116	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.184	2.183	0.002	1239754	0.0200	0.0285	
2	1.872	1.869	0.003	1365239	0.0200	0.0257	
						RPD = 10.45	
6 PCB-1016							
1	2.805	2.804	0.001	787700	0.5000	0.6302	
1	2.963	2.962	0.001	434265	0.5000	0.5557	
1	3.176	3.174	0.002	1598848	0.5000	0.5246	
1	3.263	3.261	0.001	603461	0.5000	0.5125	
1	3.328	3.326	0.002	411169	0.5000	0.5091	
		Average of Peak Amounts =				0.5464	
2	2.653	2.651	0.002	1080342	0.5000	0.5937	
2	2.983	2.979	0.003	2335539	0.5000	0.6327	
2	3.102	3.099	0.003	863686	0.5000	0.6062	
2	3.201	3.198	0.003	529300	0.5000	0.6093	
2	3.488	3.485	0.003	1036292	0.5000	0.6145	
		Average of Peak Amounts =				0.6113	
						RPD = 11.20	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.663	4.660	0.002	1029898	0.5000	0.5339	
1	4.846	4.843	0.003	1195065	0.5000	0.5592	
1	5.077	5.077	0.000	1680890	0.5000	0.5784	
1	5.603	5.601	0.002	1800246	0.5000	0.6010	
1	5.845	5.843	0.003	892642	0.5000	0.5543	
		Average of Peak Amounts =				0.5654	
2	4.879	4.877	0.002	1471497	0.5000	0.6562	
2	4.926	4.925	0.001	828941	0.5000	0.6620	
2	5.193	5.190	0.003	836671	0.5000	0.5597	
2	5.328	5.326	0.002	2305609	0.5000	0.6651	
2	5.665	5.663	0.003	1370914	0.5000	0.6532	
		Average of Peak Amounts =				0.6392	
						RPD = 12.26	
$ 15 DCB Decachlorobiphenyl							
1	6.991	6.987	0.004	607020	0.0200	0.0249	
2	6.623	6.620	0.003	797726	0.0200	0.0305	
						RPD = 19.98	

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

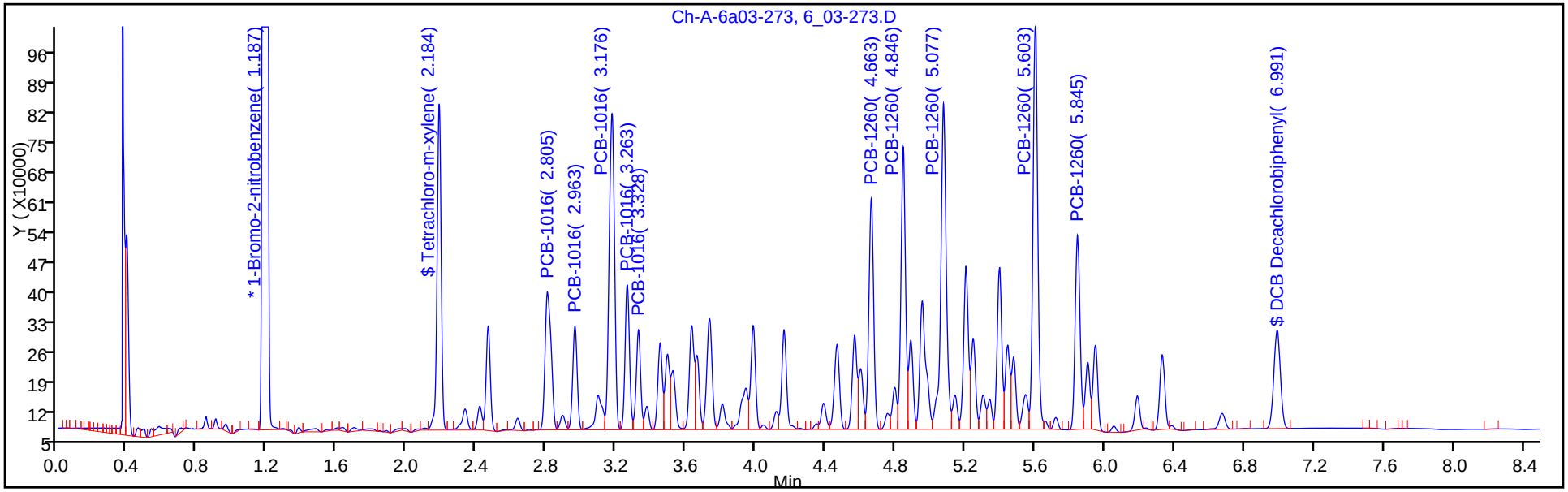
Report Date: 10-Nov-2017 15:30:34 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

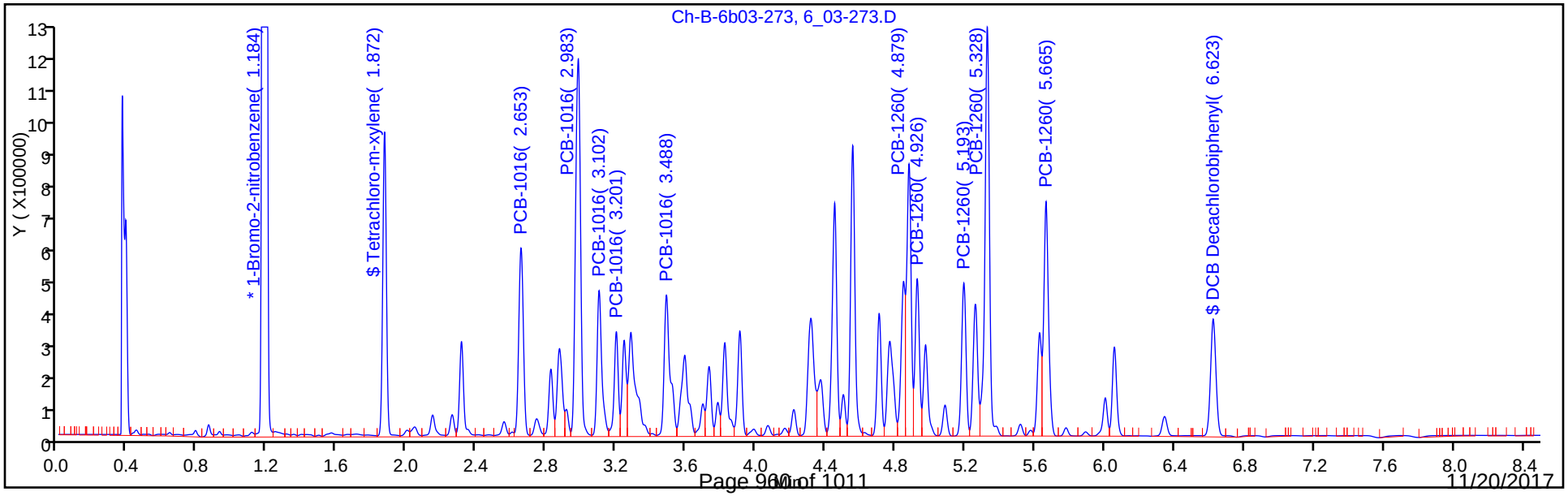
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-273.D

Injection Date:	10-Nov-2017 13:13:24	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	LCS 480-386487/2-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MS | Lab Sample ID: 480-127239-3 MS

Matrix: Solid | Lab File ID: 6_03-274.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.48(g) | Date Analyzed: 11/10/2017 13:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.53		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	3.69		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	131		60-154
2051-24-3	DCB Decachlorobiphenyl	101		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-274.D
Lims ID: 480-127239-A-3-D MS
Client ID: NS-SOUTH-SOIL 0-2"
Sample Type: MS
Inject. Date: 10-Nov-2017 13:29:16 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:14:47 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 15:14:47

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.188	1.186	0.002	17334428	0.5000	0.5000	
2	1.185	1.183	0.002	18214217	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.185	2.183	0.003	983487	0.0200	0.0262	
2	1.873	1.869	0.003	982052	0.0200	0.0207	
						RPD = 23.29	
6 PCB-1016							
1	2.806	2.804	0.002	592818	0.5000	0.5492	
1	2.963	2.962	0.001	348436	0.5000	0.5162	
1	3.177	3.174	0.003	1126358	0.5000	0.4279	
1	3.264	3.261	0.003	457607	0.5000	0.4500	
1	3.328	3.326	0.002	259889	0.5000	0.3726	
		Average of Peak Amounts =				0.4632	
2	2.654	2.651	0.003	727523	0.5000	0.4486	
2	2.983	2.979	0.003	1559280	0.5000	0.4740	
2	3.103	3.099	0.003	545184	0.5000	0.4294	
2	3.203	3.198	0.004	288853	0.5000	0.3731	
2	3.488	3.485	0.003	656388	0.5000	0.4367	
		Average of Peak Amounts =				0.4324	
						RPD = 6.89	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.663	4.660	0.002	1219083	0.5000	0.7317	
1	4.846	4.843	0.003	1219313	0.5000	0.6606	
1	5.077	5.077	0.000	2046982	0.5000	0.8156	
1	5.603	5.601	0.002	1512283	0.5000	0.5846	
1	5.845	5.843	0.003	817390	0.5000	0.5877	
		Average of Peak Amounts =				0.6760	
2	4.879	4.877	0.002	1897271	0.5000	0.9493	
2	4.927	4.925	0.002	674889	0.5000	0.6047	
2	5.194	5.190	0.004	879755	0.5000	0.6603	
2	5.328	5.326	0.002	1872067	0.5000	0.6059	
2	5.665	5.663	0.003	1195438	0.5000	0.6391	
		Average of Peak Amounts =				0.6919	
						RPD = 2.32	
9 1260 Res 1							
1	5.845	5.843	0.003	817390		NR	
2	5.194	5.190	0.004	879755		NR	
						RPD = NaN	
14 1260 Res 2							
1	5.903	5.902	0.000	236145		NR	
2	5.260	5.257	0.003	692695		NR	
						RPD = NaN	
12 1260 Res 3							
1	5.947	5.945	0.002	288695		NR	
2	5.328	5.326	0.002	1872067		NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.988	6.987	0.001	425804	0.0200	0.0202	
2	6.624	6.620	0.004	567434	0.0200	0.0242	
						RPD = 17.78	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

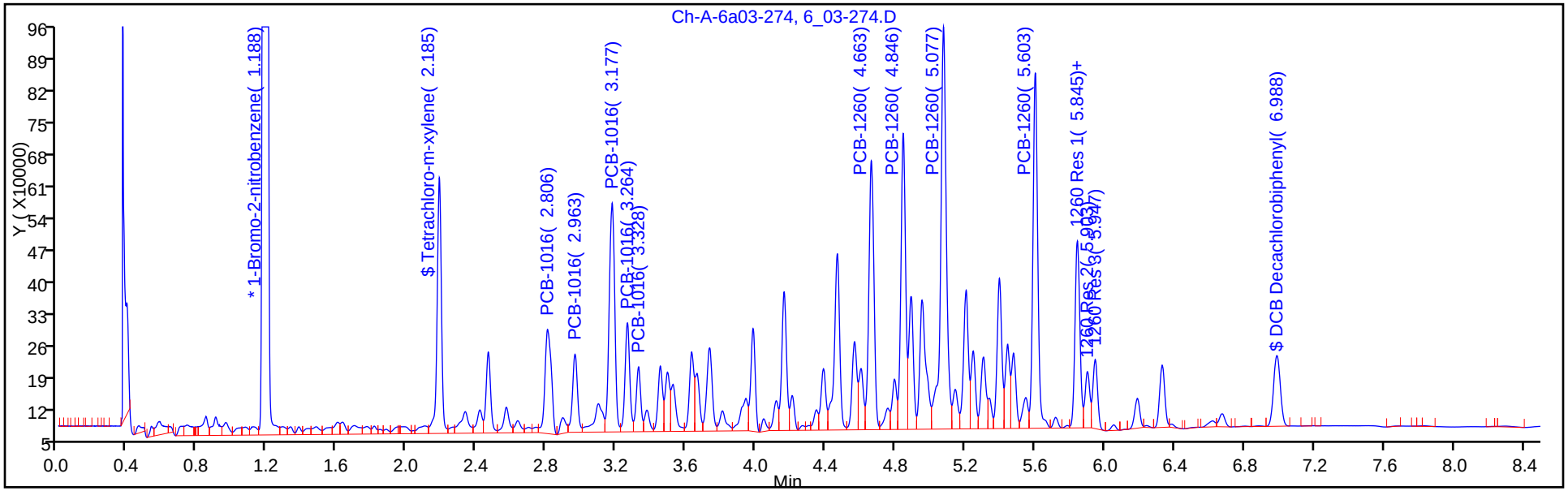
Report Date: 10-Nov-2017 15:14:48 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

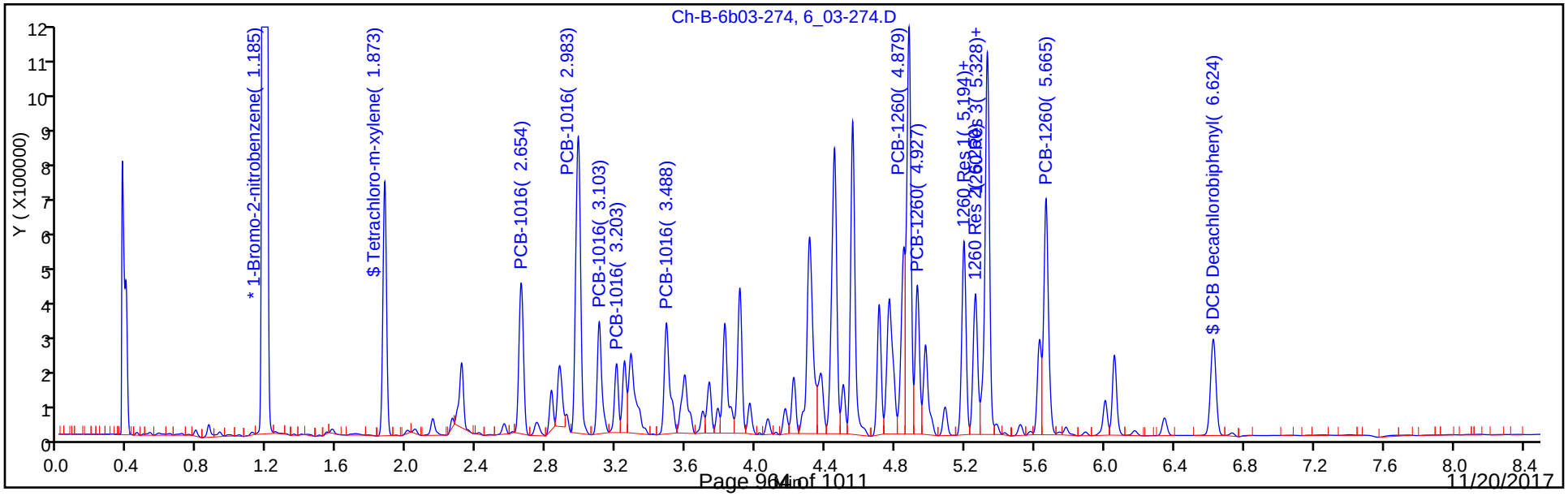
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-274.D

Injection Date:	10-Nov-2017 13:29:16	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-3-D MS			Worklist Smp#:	12
Client ID:	NS-SOUTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MS | Lab Sample ID: 480-127239-3 MS

Matrix: Solid | Lab File ID: 6_03-274.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.48(g) | Date Analyzed: 11/10/2017 13:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	121		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-274.D
Lims ID: 480-127239-A-3-D MS
Client ID: NS-SOUTH-SOIL 0-2"
Sample Type: MS
Inject. Date: 10-Nov-2017 13:29:16 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:14:47 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 15:14:47

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.188	1.186	0.002	17334428	0.5000	0.5000	
2	1.185	1.183	0.002	18214217	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.185	2.183	0.003	983487	0.0200	0.0262	
2	1.873	1.869	0.003	982052	0.0200	0.0207	
						RPD = 23.29	
6 PCB-1016							
1	2.806	2.804	0.002	592818	0.5000	0.5492	
1	2.963	2.962	0.001	348436	0.5000	0.5162	
1	3.177	3.174	0.003	1126358	0.5000	0.4279	
1	3.264	3.261	0.003	457607	0.5000	0.4500	
1	3.328	3.326	0.002	259889	0.5000	0.3726	
		Average of Peak Amounts =				0.4632	
2	2.654	2.651	0.003	727523	0.5000	0.4486	
2	2.983	2.979	0.003	1559280	0.5000	0.4740	
2	3.103	3.099	0.003	545184	0.5000	0.4294	
2	3.203	3.198	0.004	288853	0.5000	0.3731	
2	3.488	3.485	0.003	656388	0.5000	0.4367	
		Average of Peak Amounts =				0.4324	
						RPD = 6.89	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.663	4.660	0.002	1219083	0.5000	0.7317	
1	4.846	4.843	0.003	1219313	0.5000	0.6606	
1	5.077	5.077	0.000	2046982	0.5000	0.8156	
1	5.603	5.601	0.002	1512283	0.5000	0.5846	
1	5.845	5.843	0.003	817390	0.5000	0.5877	
		Average of Peak Amounts =				0.6760	
2	4.879	4.877	0.002	1897271	0.5000	0.9493	
2	4.927	4.925	0.002	674889	0.5000	0.6047	
2	5.194	5.190	0.004	879755	0.5000	0.6603	
2	5.328	5.326	0.002	1872067	0.5000	0.6059	
2	5.665	5.663	0.003	1195438	0.5000	0.6391	
		Average of Peak Amounts =				0.6919	
						RPD = 2.32	
9 1260 Res 1							
1	5.845	5.843	0.003	817390		NR	
2	5.194	5.190	0.004	879755		NR	
						RPD = NaN	
14 1260 Res 2							
1	5.903	5.902	0.000	236145		NR	
2	5.260	5.257	0.003	692695		NR	
						RPD = NaN	
12 1260 Res 3							
1	5.947	5.945	0.002	288695		NR	
2	5.328	5.326	0.002	1872067		NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.988	6.987	0.001	425804	0.0200	0.0202	
2	6.624	6.620	0.004	567434	0.0200	0.0242	
						RPD = 17.78	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

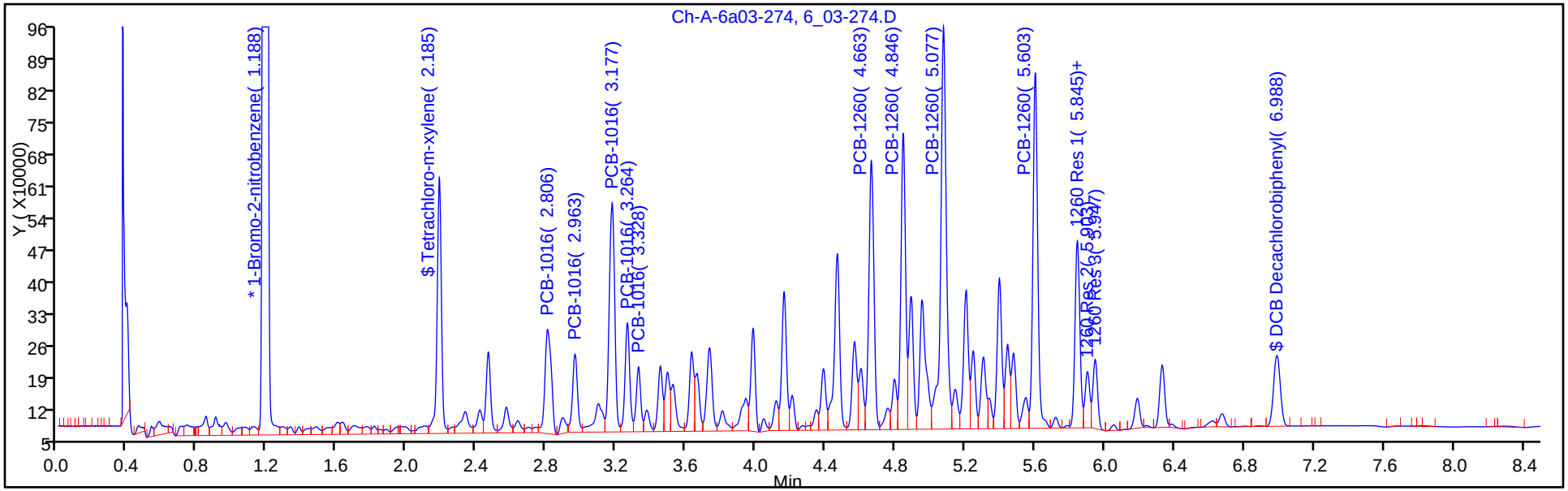
Report Date: 10-Nov-2017 15:14:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

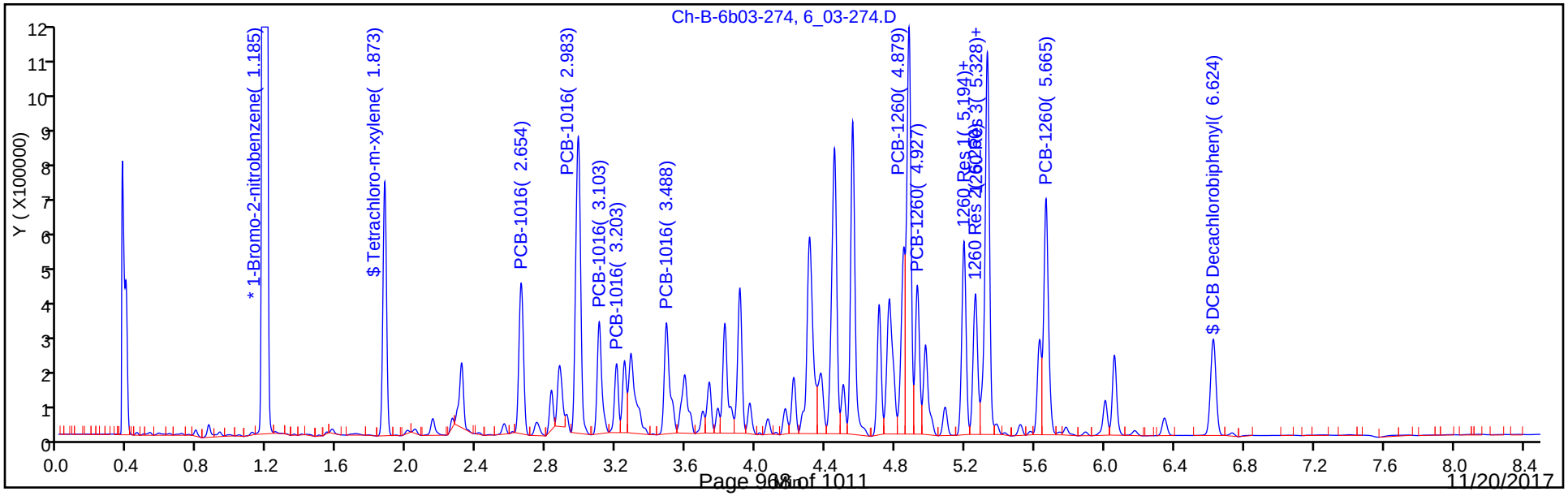
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-274.D

Injection Date:	10-Nov-2017 13:29:16	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-3-D MS			Worklist Smp#:	12
Client ID:	NS-SOUTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MS | Lab Sample ID: 480-127239-9 MS

Matrix: Solid | Lab File ID: 6_03-276.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.62(g) | Date Analyzed: 11/10/2017 14:01

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.00		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	ND		0.23	0.046
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	2.53		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	129		60-154
2051-24-3	DCB Decachlorobiphenyl	105		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-276.D
Lims ID: 480-127239-A-9-D MS
Client ID: NS-SOUTH-SOIL 2-12"
Sample Type: MS
Inject. Date: 10-Nov-2017 14:01:08 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:30:58 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:30:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.188	1.186	0.002	20040552	0.5000	0.5000	
2	1.185	1.183	0.002	20881811	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.185	2.183	0.003	1122637	0.0200	0.0259	
2	1.872	1.869	0.003	1139214	0.0200	0.0210	
						RPD = 20.86	
6 PCB-1016							M
1	2.807	2.804	0.003	613666	0.5000	0.4917	
1	2.963	2.962	0.001	349577	0.5000	0.4480	
1	3.177	3.174	0.003	1226032	0.5000	0.4029	
1	3.263	3.261	0.002	480817	0.5000	0.4090	
1	3.328	3.326	0.002	304327	0.5000	0.3774	
		Average of Peak Amounts =				0.4258	
2	2.655	2.651	0.004	819447	0.5000	0.4407	M
2	2.983	2.979	0.003	1759862	0.5000	0.4666	M
2	3.102	3.099	0.003	624375	0.5000	0.4289	M
2	3.201	3.198	0.003	366683	0.5000	0.4131	M
2	3.488	3.485	0.003	754096	0.5000	0.4376	M
		Average of Peak Amounts =				0.4374	
						RPD = 2.69	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.663	4.660	0.003	1050734	0.5000	0.5455	
1	4.846	4.843	0.003	1109465	0.5000	0.5199	
1	5.077	5.077	0.000	1743487	0.5000	0.6009	
1	5.602	5.601	0.001	1540554	0.5000	0.5151	
1	5.844	5.843	0.002	820118	0.5000	0.5100	
		Average of Peak Amounts =				0.5383	
2	4.878	4.877	0.001	1590614	0.5000	0.6942	M
2	4.927	4.925	0.002	677138	0.5000	0.5292	M
2	5.194	5.190	0.004	768233	0.5000	0.5030	M
2	5.328	5.326	0.002	1886171	0.5000	0.5325	M
2	5.664	5.663	0.002	1175024	0.5000	0.5479	M
		Average of Peak Amounts =				0.5614	
						RPD = 4.20	
9 1260 Res 1							M
1	5.844	5.843	0.002	820118		NR	
2	5.194	5.190	0.004	768233		NR	M
						RPD = NaN	
14 1260 Res 2							M
1	5.903	5.902	0.001	255910		NR	
2	5.259	5.257	0.002	664537		NR	M
						RPD = NaN	
12 1260 Res 3							M
1	5.947	5.945	0.002	320799		NR	
2	5.328	5.326	0.002	1886171		NR	M
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.988	6.987	0.001	510452	0.0200	0.0210	
2	6.624	6.620	0.004	660349	0.0200	0.0246	
						RPD = 15.70	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

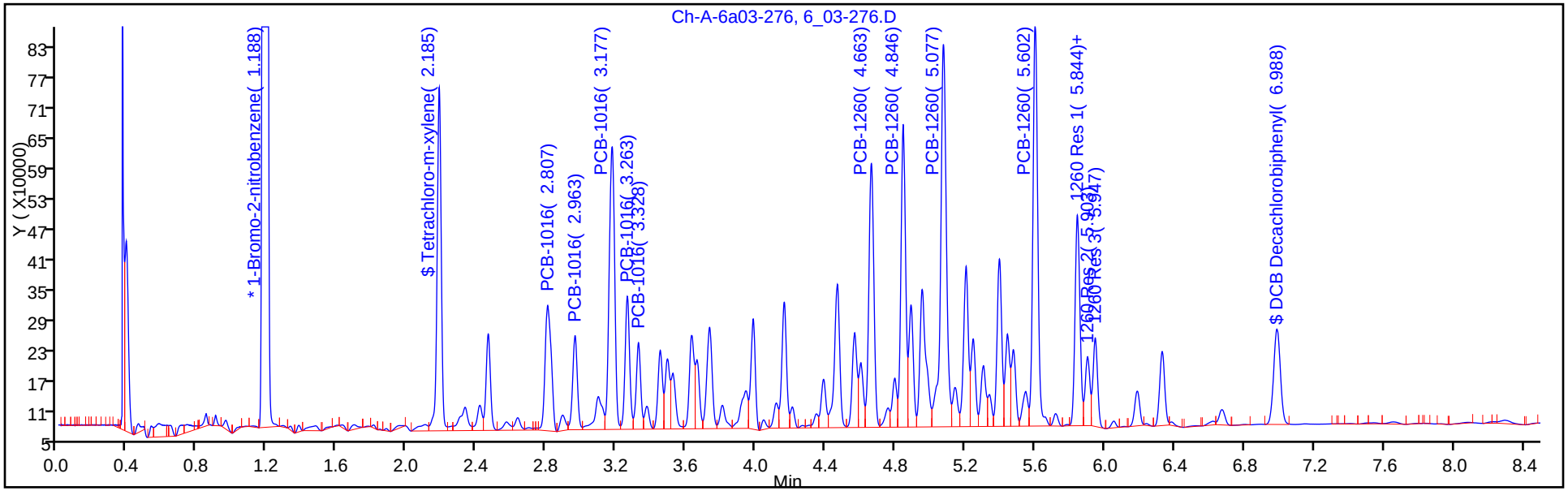
Report Date: 10-Nov-2017 15:31:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

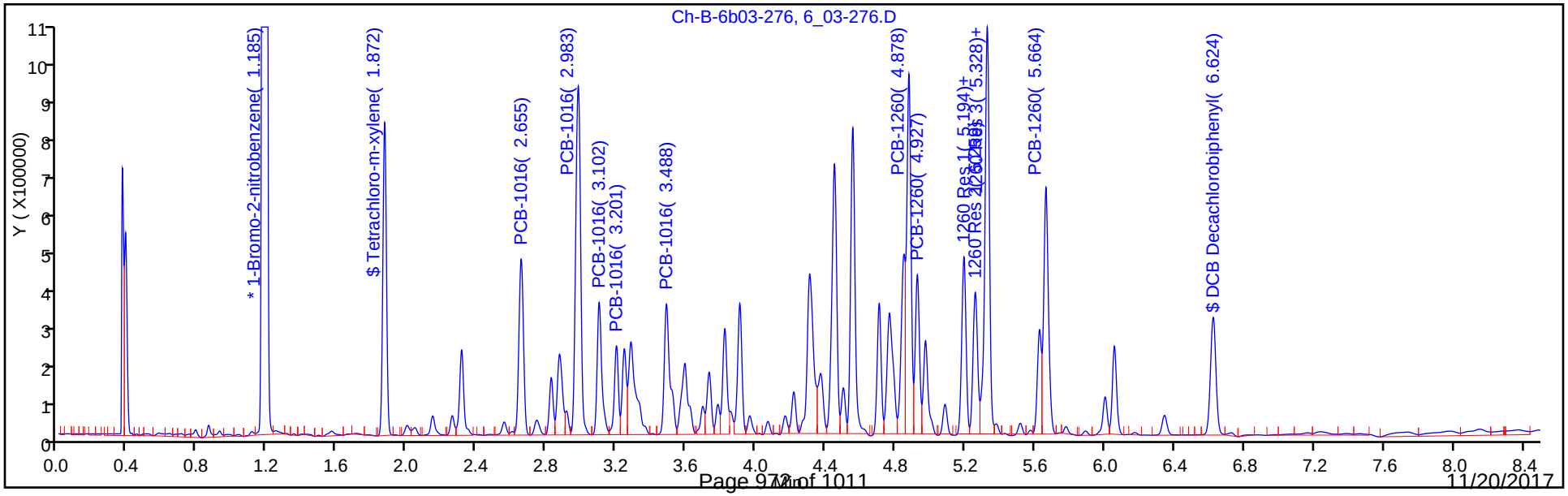
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-276.D

Injection Date:	10-Nov-2017 14:01:08	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-9-D MS			Worklist Smp#:	14
Client ID:	NS-SOUTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MS | Lab Sample ID: 480-127239-9 MS

Matrix: Solid | Lab File ID: 6_03-276.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.62(g) | Date Analyzed: 11/10/2017 14:01

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	105		60-154
2051-24-3	DCB Decachlorobiphenyl	123		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-276.D
Lims ID: 480-127239-A-9-D MS
Client ID: NS-SOUTH-SOIL 2-12"
Sample Type: MS
Inject. Date: 10-Nov-2017 14:01:08 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:30:58 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:30:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.188	1.186	0.002	20040552	0.5000	0.5000	
2	1.185	1.183	0.002	20881811	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.185	2.183	0.003	1122637	0.0200	0.0259	
2	1.872	1.869	0.003	1139214	0.0200	0.0210	
						RPD = 20.86	
6 PCB-1016							M
1	2.807	2.804	0.003	613666	0.5000	0.4917	
1	2.963	2.962	0.001	349577	0.5000	0.4480	
1	3.177	3.174	0.003	1226032	0.5000	0.4029	
1	3.263	3.261	0.002	480817	0.5000	0.4090	
1	3.328	3.326	0.002	304327	0.5000	0.3774	
		Average of Peak Amounts =				0.4258	
2	2.655	2.651	0.004	819447	0.5000	0.4407	M
2	2.983	2.979	0.003	1759862	0.5000	0.4666	M
2	3.102	3.099	0.003	624375	0.5000	0.4289	M
2	3.201	3.198	0.003	366683	0.5000	0.4131	M
2	3.488	3.485	0.003	754096	0.5000	0.4376	M
		Average of Peak Amounts =				0.4374	
						RPD = 2.69	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.663	4.660	0.003	1050734	0.5000	0.5455	
1	4.846	4.843	0.003	1109465	0.5000	0.5199	
1	5.077	5.077	0.000	1743487	0.5000	0.6009	
1	5.602	5.601	0.001	1540554	0.5000	0.5151	
1	5.844	5.843	0.002	820118	0.5000	0.5100	
		Average of Peak Amounts =				0.5383	
2	4.878	4.877	0.001	1590614	0.5000	0.6942	M
2	4.927	4.925	0.002	677138	0.5000	0.5292	M
2	5.194	5.190	0.004	768233	0.5000	0.5030	M
2	5.328	5.326	0.002	1886171	0.5000	0.5325	M
2	5.664	5.663	0.002	1175024	0.5000	0.5479	M
		Average of Peak Amounts =				0.5614	
						RPD = 4.20	
9 1260 Res 1							M
1	5.844	5.843	0.002	820118		NR	
2	5.194	5.190	0.004	768233		NR	M
						RPD = NaN	
14 1260 Res 2							M
1	5.903	5.902	0.001	255910		NR	
2	5.259	5.257	0.002	664537		NR	M
						RPD = NaN	
12 1260 Res 3							M
1	5.947	5.945	0.002	320799		NR	
2	5.328	5.326	0.002	1886171		NR	M
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.988	6.987	0.001	510452	0.0200	0.0210	
2	6.624	6.620	0.004	660349	0.0200	0.0246	
						RPD = 15.70	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

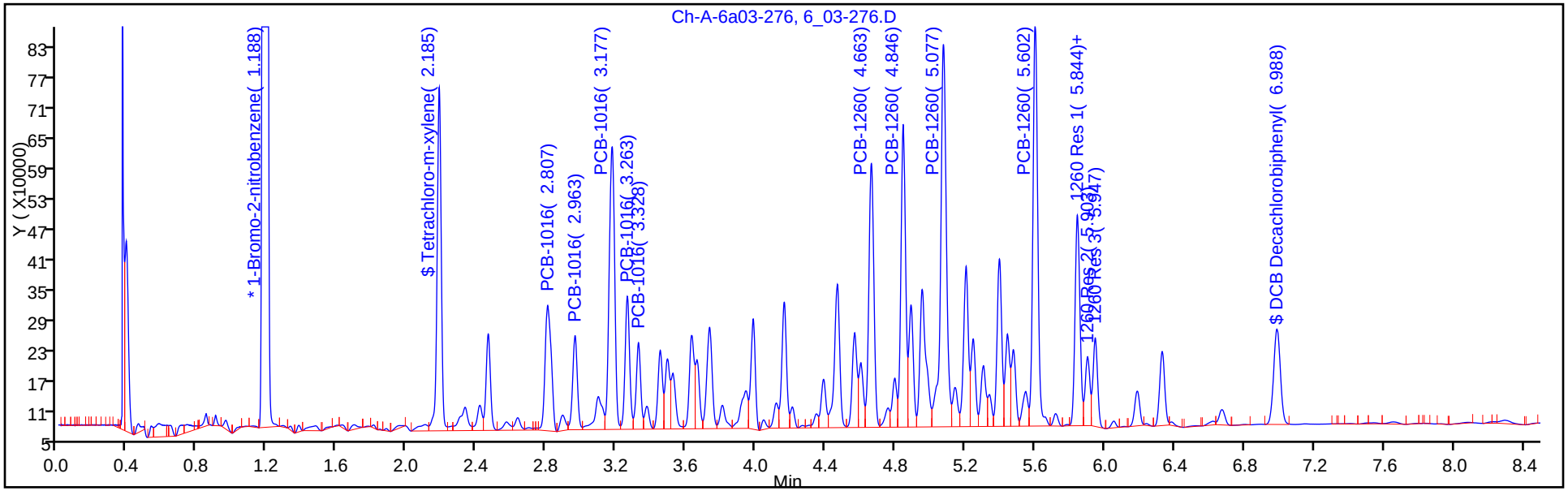
Report Date: 10-Nov-2017 15:31:01 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

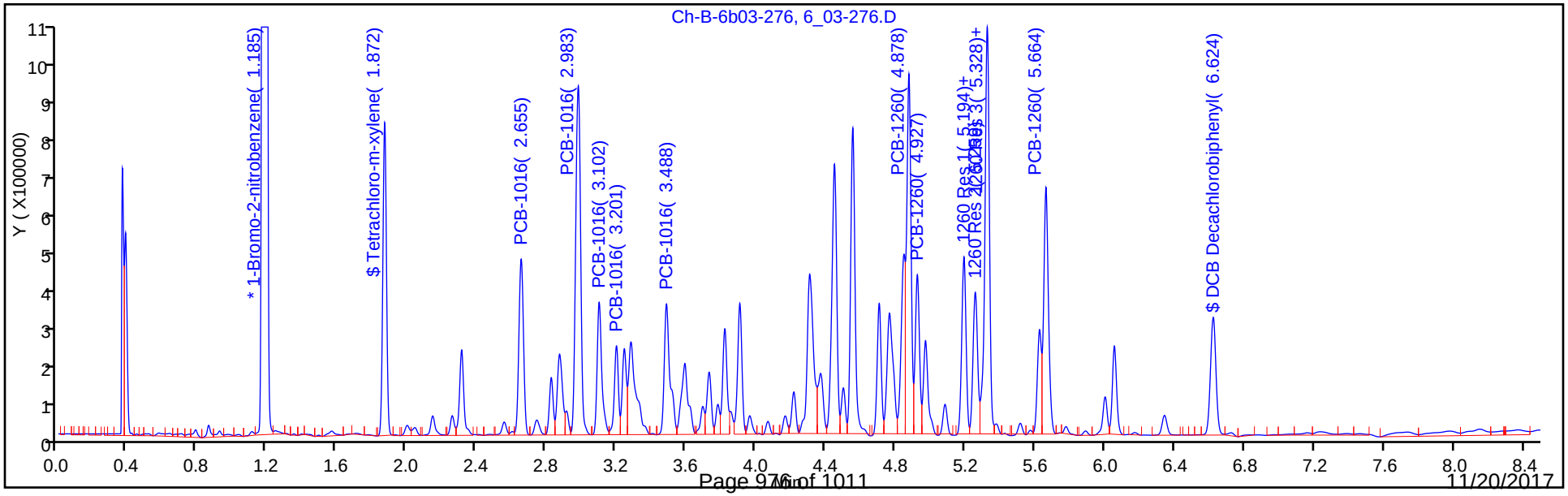
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-276.D

Injection Date:	10-Nov-2017 14:01:08	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-9-D MS			Worklist Smp#:	14
Client ID:	NS-SOUTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



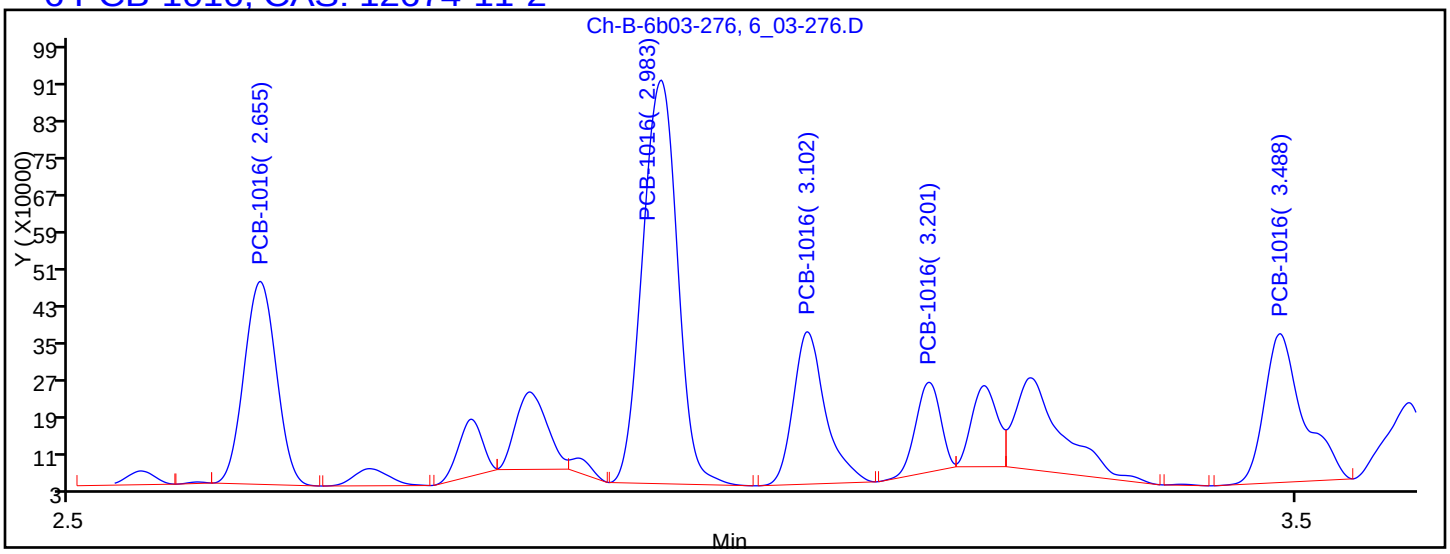
Report Date: 10-Nov-2017 15:31:01 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-276.D

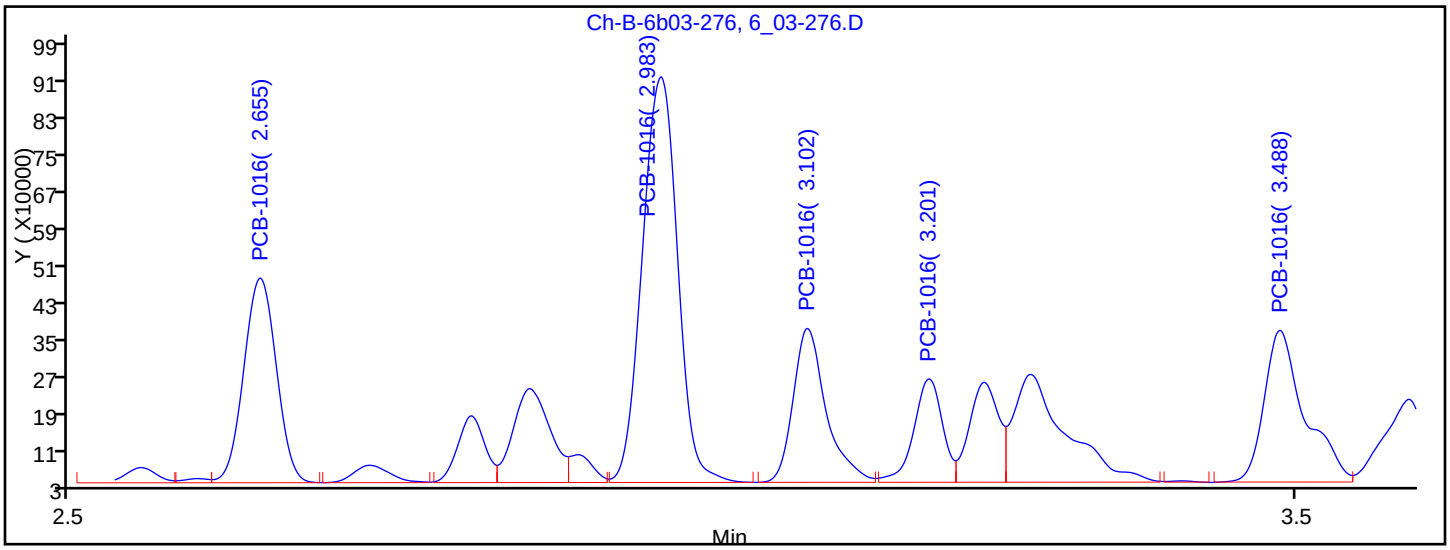
Injection Date:	10-Nov-2017 14:01:08	Instrument ID:	HP6890-6		
Lims ID:	480-127239-A-9-D MS				
Client ID:	NS-SOUTH-SOIL 2-12"				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.655	Response = 801146
2.983	Response = 1734521
3.102	Response = 600648
3.201	Response = 273549
3.488	Response = 708856



Manual Integration Results

2.655	Response = 819447	M
2.983	Response = 1759862	M
3.102	Response = 624375	M
3.201	Response = 366683	M
3.488	Response = 754096	M

Reviewer: owenj, 10-Nov-2017 15:30:53

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

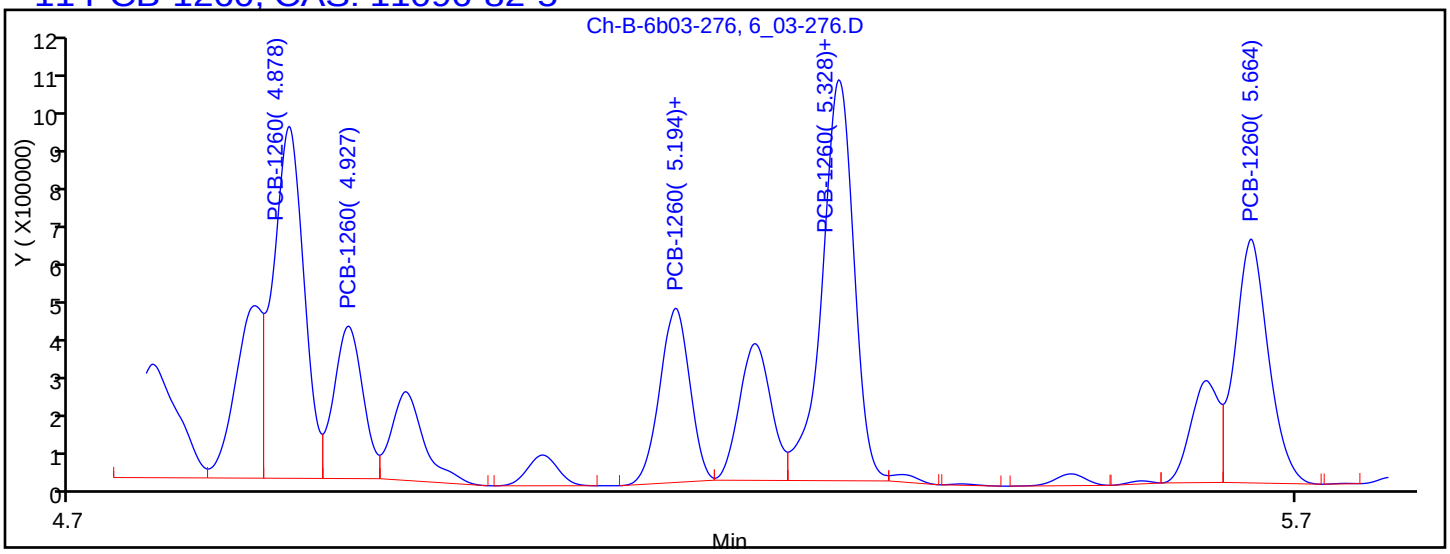
Report Date: 10-Nov-2017 15:31:02 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-276.D

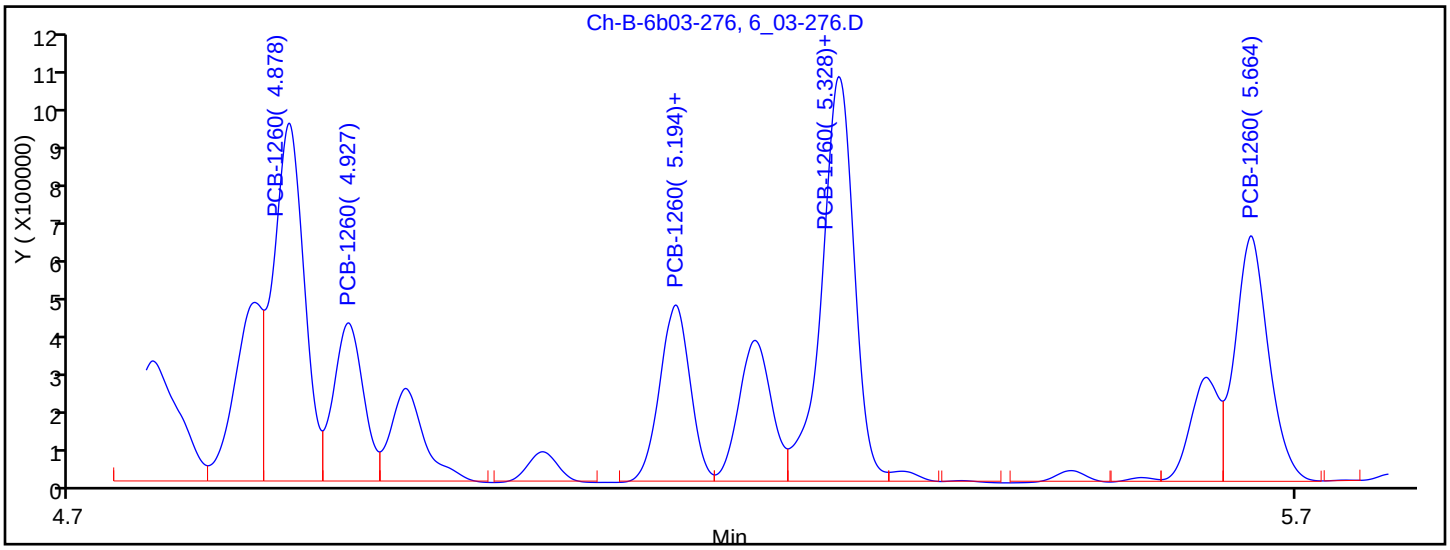
Injection Date:	10-Nov-2017 14:01:08	Instrument ID:	HP6890-6		
Lims ID:	480-127239-A-9-D MS				
Client ID:	NS-SOUTH-SOIL 2-12"				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.878	Response = 1546916
4.927	Response = 636627
5.194	Response = 751174
5.328	Response = 1839418
5.664	Response = 1159331



Manual Integration Results

4.878	Response = 1590614	M
4.927	Response = 677138	M
5.194	Response = 768233	M
5.328	Response = 1886171	M
5.664	Response = 1175024	M

Reviewer: owenj, 10-Nov-2017 15:30:54

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MSD | Lab Sample ID: 480-127239-3 MSD

Matrix: Solid | Lab File ID: 6_03-275.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.11(g) | Date Analyzed: 11/10/2017 13:45

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.42		0.32	0.063
11104-28-2	PCB-1221	ND		0.32	0.063
11141-16-5	PCB-1232	ND		0.32	0.063
53469-21-9	PCB-1242	ND		0.32	0.063
12672-29-6	PCB-1248	ND		0.32	0.063
11097-69-1	PCB-1254	ND		0.32	0.15
11096-82-5	PCB-1260	4.67		0.32	0.15
37324-23-5	PCB-1262	ND		0.32	0.15
11100-14-4	PCB-1268	ND		0.32	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	136		60-154
2051-24-3	DCB Decachlorobiphenyl	103		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-275.D
Lims ID: 480-127239-A-3-E MSD
Client ID: NS-SOUTH-SOIL 0-2"
Sample Type: MSD
Inject. Date: 10-Nov-2017 13:45:15 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:17:10 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 15:17:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.188	1.186	0.002	18597844	0.5000	0.5000	
2	1.185	1.183	0.002	19551393	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.186	2.183	0.004	1092729	0.0200	0.0271	
2	1.873	1.869	0.003	1061379	0.0200	0.0209	
						RPD = 26.06	
6 PCB-1016							
1	2.808	2.804	0.004	707698	0.5000	0.6111	
1	2.965	2.962	0.003	412046	0.5000	0.5690	
1	3.178	3.174	0.004	1392470	0.5000	0.4931	
1	3.264	3.261	0.003	556250	0.5000	0.5098	
1	3.328	3.326	0.002	361903	0.5000	0.4836	
		Average of Peak Amounts =				0.5333	
2	2.655	2.651	0.004	917981	0.5000	0.5273	
2	2.983	2.979	0.003	1962835	0.5000	0.5559	
2	3.103	3.099	0.003	689932	0.5000	0.5062	
2	3.201	3.198	0.003	419920	0.5000	0.5053	
2	3.488	3.485	0.003	856035	0.5000	0.5306	
		Average of Peak Amounts =				0.5251	
						RPD = 1.56	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.664	4.660	0.004	1335525	0.5000	0.7471	
1	4.847	4.843	0.004	1385645	0.5000	0.6997	
1	5.078	5.077	0.001	2292541	0.5000	0.8514	
1	5.604	5.601	0.003	1865832	0.5000	0.6722	
1	5.845	5.843	0.003	1007893	0.5000	0.6754	
		Average of Peak Amounts =				0.7292	
2	4.879	4.877	0.002	2070865	0.5000	0.9653	
2	4.927	4.925	0.002	815435	0.5000	0.6807	
2	5.194	5.190	0.004	936582	0.5000	0.6549	
2	5.328	5.326	0.002	2292631	0.5000	0.6913	
2	5.665	5.663	0.003	1439245	0.5000	0.7168	
		Average of Peak Amounts =				0.7418	
						RPD = 1.72	
9 1260 Res 1							
1	5.845	5.843	0.003	1007893		NR	
2	5.194	5.190	0.004	936582		NR	
						RPD = NaN	
14 1260 Res 2							
1	5.903	5.902	0.001	312930		NR	
2	5.259	5.257	0.002	838772		NR	
						RPD = NaN	
12 1260 Res 3							
1	5.948	5.945	0.003	386324		NR	
2	5.328	5.326	0.002	2292631		NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.990	6.987	0.003	462686	0.0200	0.0205	
2	6.624	6.620	0.004	605359	0.0200	0.0240	
						RPD = 15.89	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

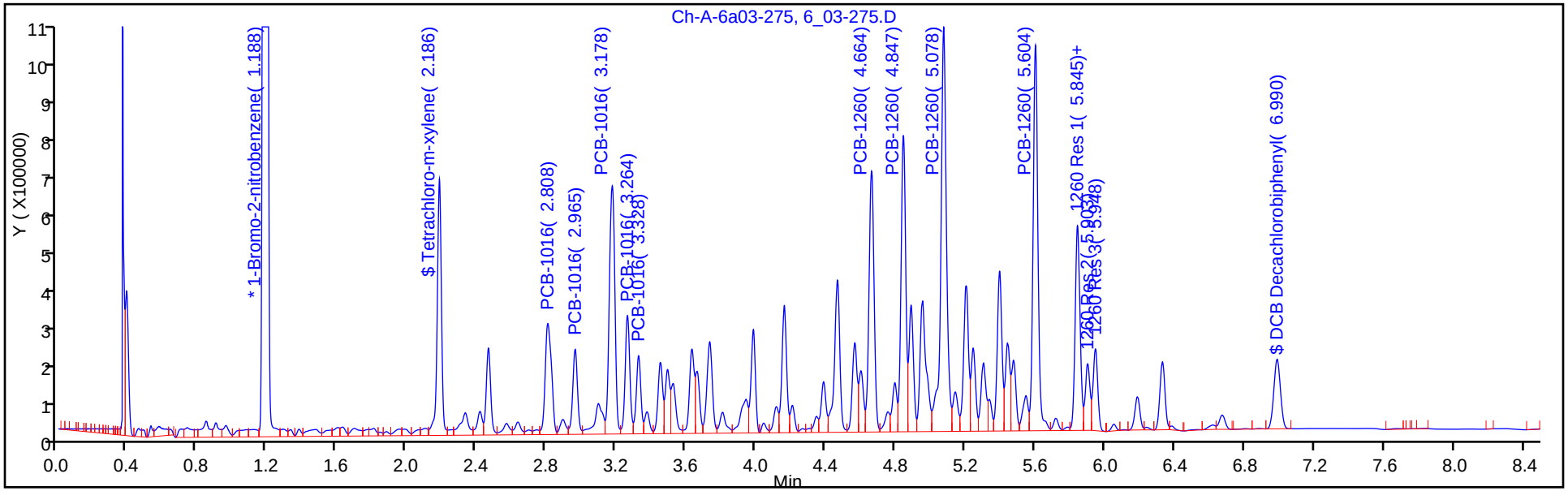
Report Date: 10-Nov-2017 15:17:11 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

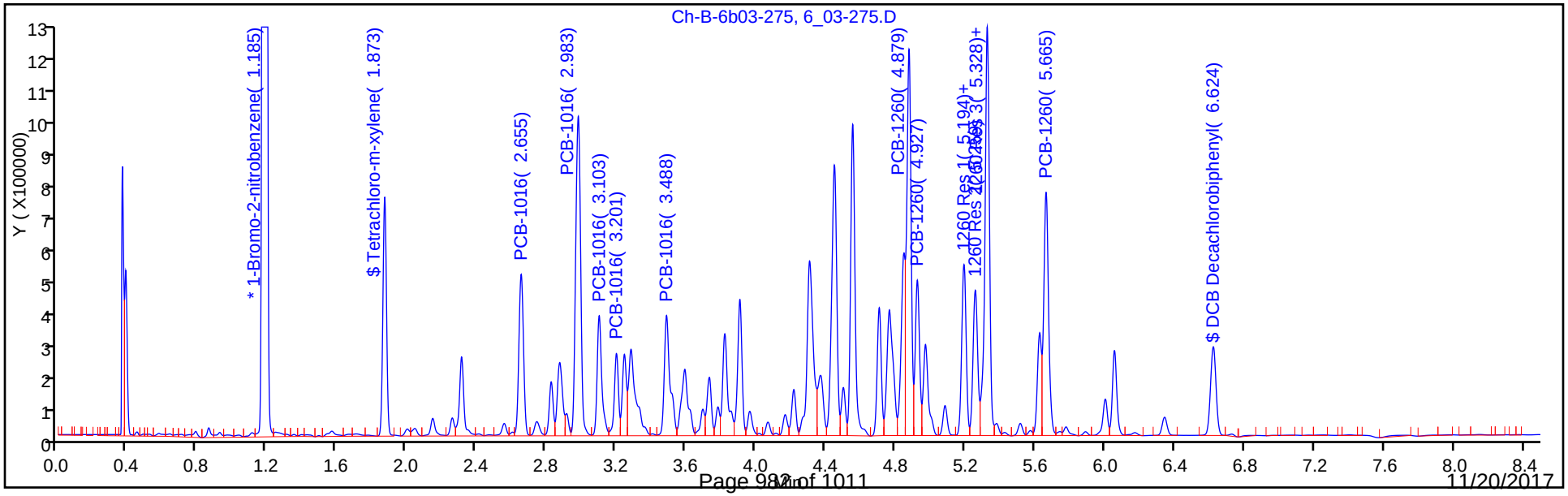
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-275.D

Injection Date:	10-Nov-2017 13:45:15	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-3-E MSD			Worklist Smp#:	13
Client ID:	NS-SOUTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 0-2" MSD | Lab Sample ID: 480-127239-3 MSD

Matrix: Solid | Lab File ID: 6_03-275.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.11(g) | Date Analyzed: 11/10/2017 13:45

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		60-154
2051-24-3	DCB Decachlorobiphenyl	120		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-275.D
Lims ID: 480-127239-A-3-E MSD
Client ID: NS-SOUTH-SOIL 0-2"
Sample Type: MSD
Inject. Date: 10-Nov-2017 13:45:15 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:17:10 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 10-Nov-2017 15:17:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.188	1.186	0.002	18597844	0.5000	0.5000	
2	1.185	1.183	0.002	19551393	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.186	2.183	0.004	1092729	0.0200	0.0271	
2	1.873	1.869	0.003	1061379	0.0200	0.0209	
						RPD = 26.06	
6 PCB-1016							
1	2.808	2.804	0.004	707698	0.5000	0.6111	
1	2.965	2.962	0.003	412046	0.5000	0.5690	
1	3.178	3.174	0.004	1392470	0.5000	0.4931	
1	3.264	3.261	0.003	556250	0.5000	0.5098	
1	3.328	3.326	0.002	361903	0.5000	0.4836	
		Average of Peak Amounts =				0.5333	
2	2.655	2.651	0.004	917981	0.5000	0.5273	
2	2.983	2.979	0.003	1962835	0.5000	0.5559	
2	3.103	3.099	0.003	689932	0.5000	0.5062	
2	3.201	3.198	0.003	419920	0.5000	0.5053	
2	3.488	3.485	0.003	856035	0.5000	0.5306	
		Average of Peak Amounts =				0.5251	
						RPD = 1.56	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.664	4.660	0.004	1335525	0.5000	0.7471	
1	4.847	4.843	0.004	1385645	0.5000	0.6997	
1	5.078	5.077	0.001	2292541	0.5000	0.8514	
1	5.604	5.601	0.003	1865832	0.5000	0.6722	
1	5.845	5.843	0.003	1007893	0.5000	0.6754	
		Average of Peak Amounts =				0.7292	
2	4.879	4.877	0.002	2070865	0.5000	0.9653	
2	4.927	4.925	0.002	815435	0.5000	0.6807	
2	5.194	5.190	0.004	936582	0.5000	0.6549	
2	5.328	5.326	0.002	2292631	0.5000	0.6913	
2	5.665	5.663	0.003	1439245	0.5000	0.7168	
		Average of Peak Amounts =				0.7418	
						RPD = 1.72	
9 1260 Res 1							
1	5.845	5.843	0.003	1007893		NR	
2	5.194	5.190	0.004	936582		NR	
						RPD = NaN	
14 1260 Res 2							
1	5.903	5.902	0.001	312930		NR	
2	5.259	5.257	0.002	838772		NR	
						RPD = NaN	
12 1260 Res 3							
1	5.948	5.945	0.003	386324		NR	
2	5.328	5.326	0.002	2292631		NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.990	6.987	0.003	462686	0.0200	0.0205	
2	6.624	6.620	0.004	605359	0.0200	0.0240	
						RPD = 15.89	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

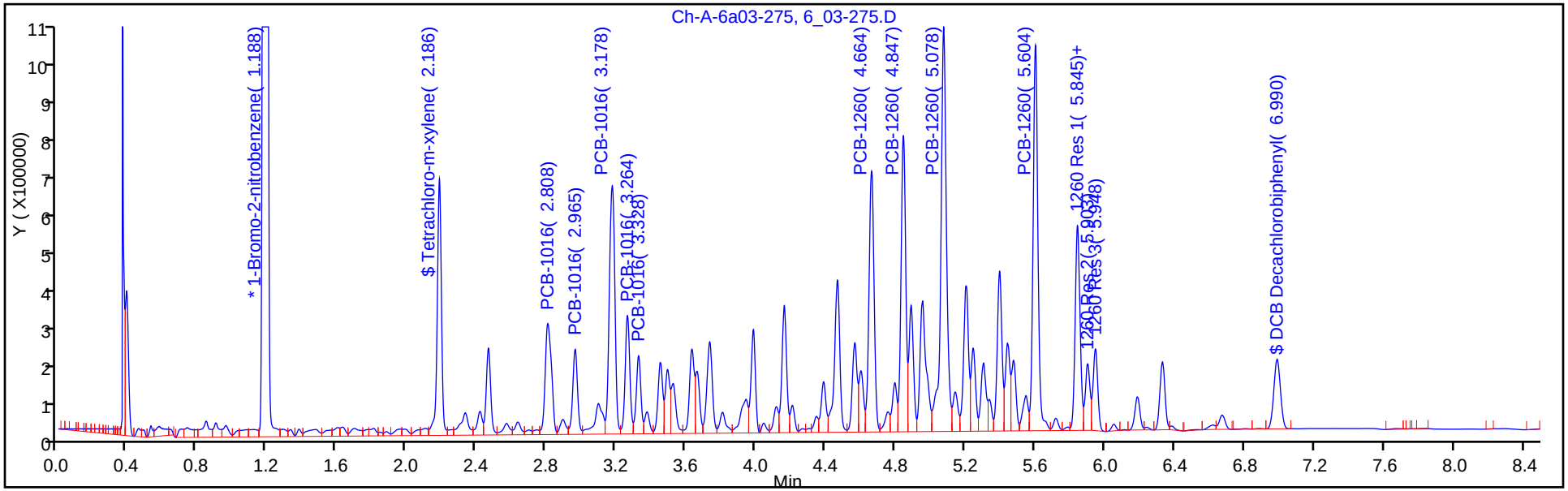
Report Date: 10-Nov-2017 15:17:13 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

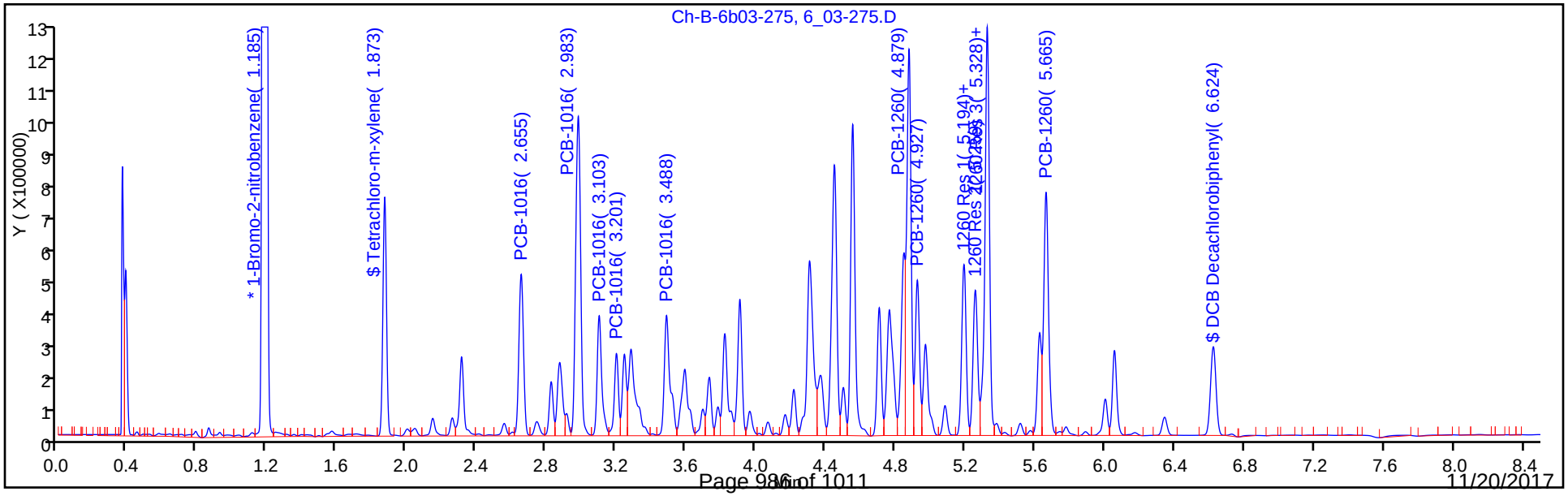
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-275.D

Injection Date:	10-Nov-2017 13:45:15	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-3-E MSD			Worklist Smp#:	13
Client ID:	NS-SOUTH-SOIL 0-2"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MSD | Lab Sample ID: 480-127239-9 MSD

Matrix: Solid | Lab File ID: 6_03-277.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.11(g) | Date Analyzed: 11/10/2017 14:18

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.39		0.29	0.057
11104-28-2	PCB-1221	ND		0.29	0.057
11141-16-5	PCB-1232	ND		0.29	0.057
53469-21-9	PCB-1242	ND		0.29	0.057
12672-29-6	PCB-1248	ND		0.29	0.057
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	3.56		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	147		60-154
2051-24-3	DCB Decachlorobiphenyl	119		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-277.D
Lims ID: 480-127239-A-9-E MSD
Client ID: NS-SOUTH-SOIL 2-12"
Sample Type: MSD
Inject. Date: 10-Nov-2017 14:18:38 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:30:58 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:31:20

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.187	1.186	0.001	19337123	0.5000	0.5000	
2	1.184	1.183	0.001	19711286	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.184	2.183	0.002	1228573	0.0200	0.0293	
2	1.871	1.869	0.002	1241568	0.0200	0.0242	
						RPD = 19.10	
6 PCB-1016							
1	2.806	2.804	0.002	812763	0.5000	0.6750	
1	2.963	2.962	0.001	459575	0.5000	0.6104	
1	3.177	3.174	0.003	1589271	0.5000	0.5413	
1	3.263	3.261	0.002	615350	0.5000	0.5424	
1	3.328	3.326	0.002	416265	0.5000	0.5350	
		Average of Peak Amounts =				0.5808	
2	2.654	2.651	0.003	1040175	0.5000	0.5926	
2	2.982	2.979	0.003	2260069	0.5000	0.6348	
2	3.102	3.099	0.003	826026	0.5000	0.6011	
2	3.201	3.198	0.003	496727	0.5000	0.5929	
2	3.488	3.485	0.003	989753	0.5000	0.6085	
		Average of Peak Amounts =				0.6060	
						RPD = 4.25	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.662	4.660	0.002	1106863	0.5000	0.5955	
1	4.846	4.843	0.003	1226386	0.5000	0.5956	
1	5.078	5.077	0.001	1789322	0.5000	0.6391	
1	5.603	5.601	0.002	1822415	0.5000	0.6315	
1	5.843	5.843	0.000	913750	0.5000	0.5889	
		Average of Peak Amounts =				0.6101	
2	4.879	4.877	0.002	1595737	0.5000	0.7378	
2	4.928	4.925	0.003	821007	0.5000	0.6798	
2	5.193	5.190	0.003	882341	0.5000	0.6120	
2	5.328	5.326	0.002	2246119	0.5000	0.6718	
2	5.665	5.663	0.003	1379483	0.5000	0.6814	
		Average of Peak Amounts =				0.6766	
						RPD = 10.33	
9 1260 Res 1							
1	5.843	5.843	0.000	913750		NR	
2	5.193	5.190	0.003	882341		NR	
						RPD = NaN	
14 1260 Res 2							
1	5.902	5.902	0.000	294547		NR	
2	5.259	5.257	0.002	758166		NR	
						RPD = NaN	
12 1260 Res 3							
1	5.946	5.945	0.001	385201		NR	
2	5.328	5.326	0.002	2246119		NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.988	6.987	0.001	556232	0.0200	0.0237	
2	6.623	6.620	0.002	702356	0.0200	0.0278	
						RPD = 15.73	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

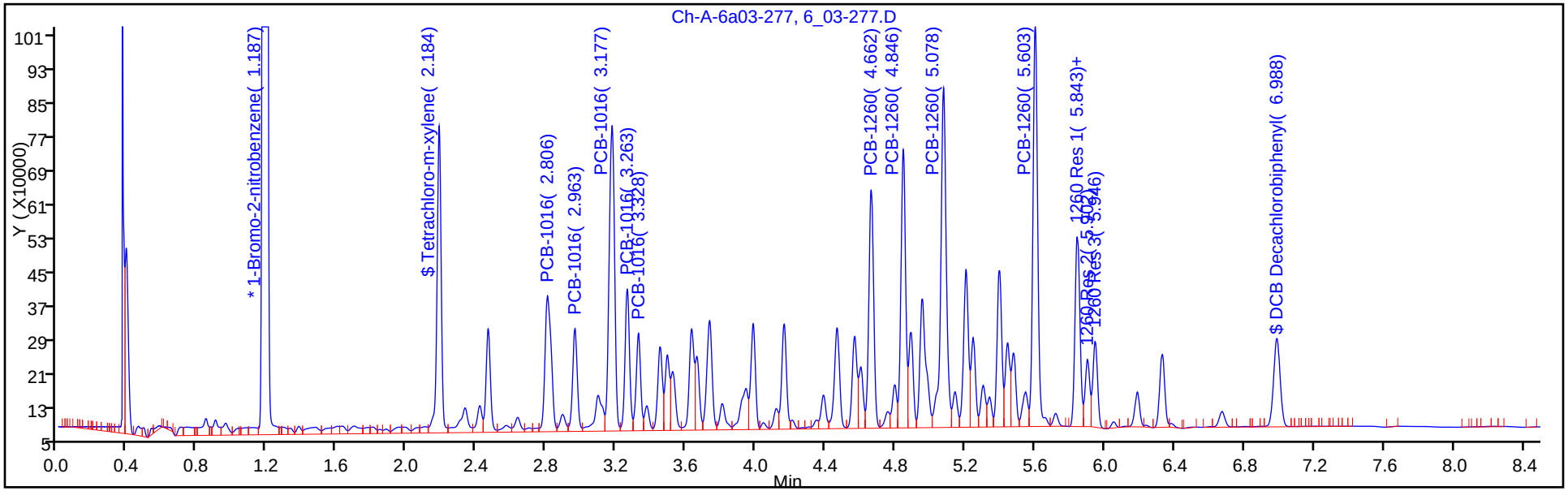
Report Date: 10-Nov-2017 15:31:21 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

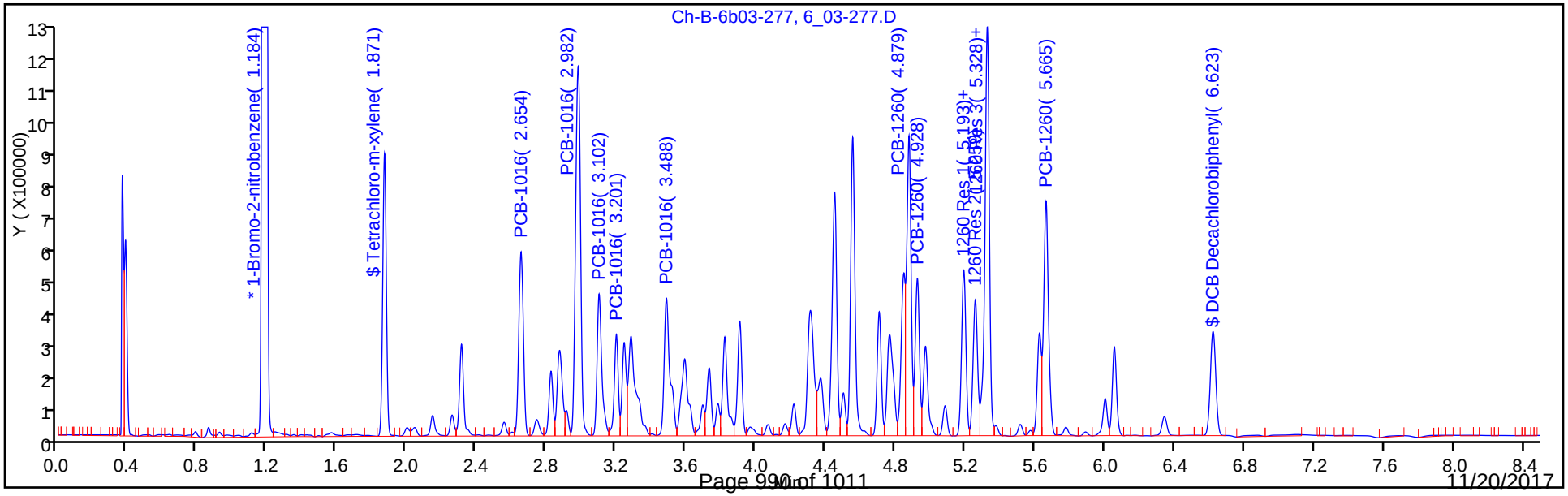
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Injection Date:	10-Nov-2017 14:18:38	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-9-E MSD			Worklist Smp#:	15
Client ID:	NS-SOUTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-127239-1

SDG No.:

Client Sample ID: NS-SOUTH-SOIL 2-12" MSD | Lab Sample ID: 480-127239-9 MSD

Matrix: Solid | Lab File ID: 6_03-277.D

Analysis Method: 8082A | Date Collected: 11/07/2017 14:30

Extraction Method: 3550C | Date Extracted: 11/09/2017 10:52

Sample wt/vol: 2.11(g) | Date Analyzed: 11/10/2017 14:18

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 386747 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	121		60-154
2051-24-3	DCB Decachlorobiphenyl	139		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-277.D
Lims ID: 480-127239-A-9-E MSD
Client ID: NS-SOUTH-SOIL 2-12"
Sample Type: MSD
Inject. Date: 10-Nov-2017 14:18:38 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 10-Nov-2017 15:30:58 Calib Date: 30-Oct-2017 14:43:20
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171030-66843.b\6_02-303.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK004

First Level Reviewer: owenj Date: 10-Nov-2017 15:31:20

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.187	1.186	0.001	19337123	0.5000	0.5000	
2	1.184	1.183	0.001	19711286	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	2.184	2.183	0.002	1228573	0.0200	0.0293	
2	1.871	1.869	0.002	1241568	0.0200	0.0242	
						RPD = 19.10	
6 PCB-1016							
1	2.806	2.804	0.002	812763	0.5000	0.6750	
1	2.963	2.962	0.001	459575	0.5000	0.6104	
1	3.177	3.174	0.003	1589271	0.5000	0.5413	
1	3.263	3.261	0.002	615350	0.5000	0.5424	
1	3.328	3.326	0.002	416265	0.5000	0.5350	
		Average of Peak Amounts =				0.5808	
2	2.654	2.651	0.003	1040175	0.5000	0.5926	
2	2.982	2.979	0.003	2260069	0.5000	0.6348	
2	3.102	3.099	0.003	826026	0.5000	0.6011	
2	3.201	3.198	0.003	496727	0.5000	0.5929	
2	3.488	3.485	0.003	989753	0.5000	0.6085	
		Average of Peak Amounts =				0.6060	
						RPD = 4.25	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.662	4.660	0.002	1106863	0.5000	0.5955	
1	4.846	4.843	0.003	1226386	0.5000	0.5956	
1	5.078	5.077	0.001	1789322	0.5000	0.6391	
1	5.603	5.601	0.002	1822415	0.5000	0.6315	
1	5.843	5.843	0.000	913750	0.5000	0.5889	
		Average of Peak Amounts =				0.6101	
2	4.879	4.877	0.002	1595737	0.5000	0.7378	
2	4.928	4.925	0.003	821007	0.5000	0.6798	
2	5.193	5.190	0.003	882341	0.5000	0.6120	
2	5.328	5.326	0.002	2246119	0.5000	0.6718	
2	5.665	5.663	0.003	1379483	0.5000	0.6814	
		Average of Peak Amounts =				0.6766	
						RPD = 10.33	
9 1260 Res 1							
1	5.843	5.843	0.000	913750		NR	
2	5.193	5.190	0.003	882341		NR	
						RPD = NaN	
14 1260 Res 2							
1	5.902	5.902	0.000	294547		NR	
2	5.259	5.257	0.002	758166		NR	
						RPD = NaN	
12 1260 Res 3							
1	5.946	5.945	0.001	385201		NR	
2	5.328	5.326	0.002	2246119		NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.988	6.987	0.001	556232	0.0200	0.0237	
2	6.623	6.620	0.002	702356	0.0200	0.0278	
						RPD = 15.73	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00041	Amount Added: 10.00	Units: uL	Run Reagent
COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent

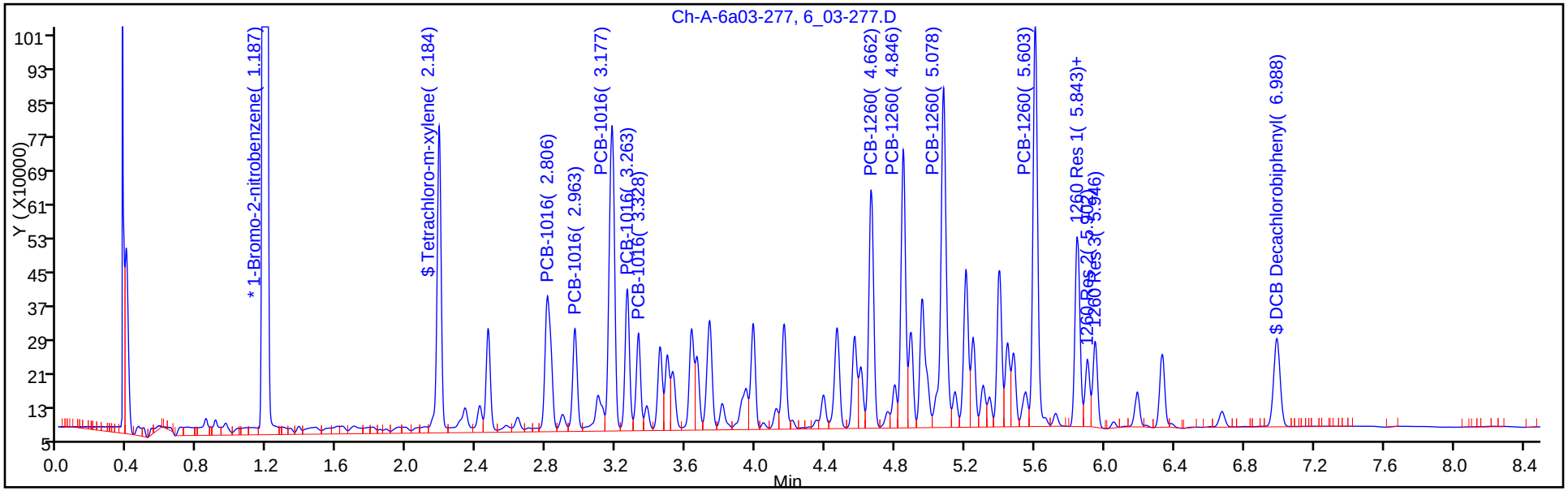
Report Date: 10-Nov-2017 15:31:22 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

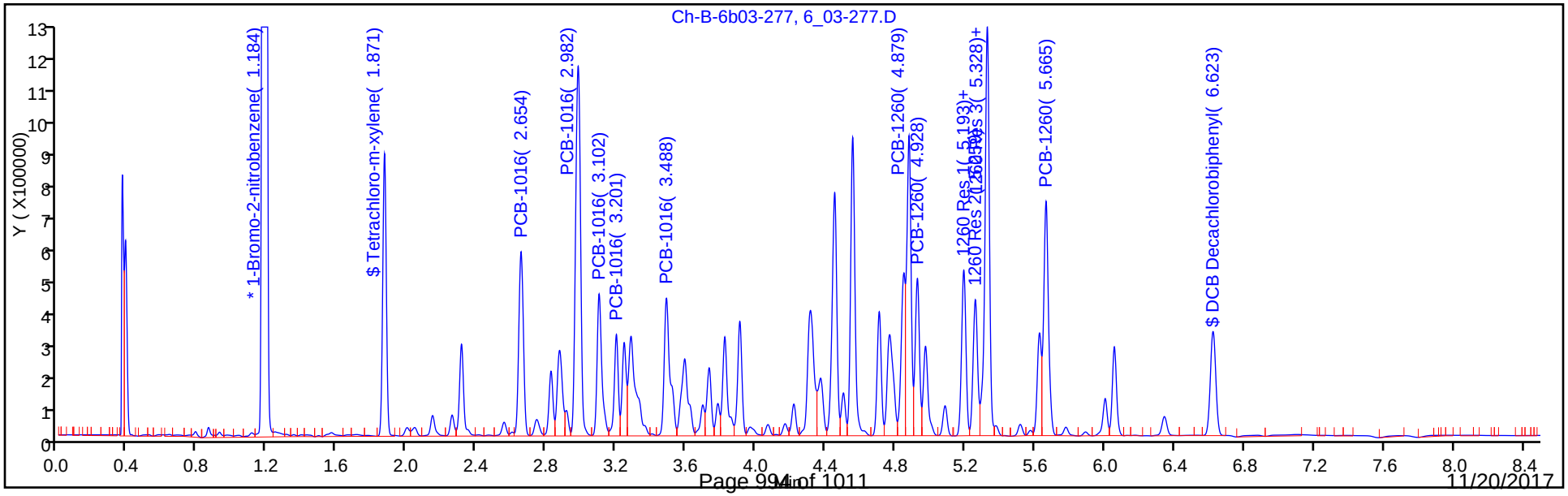
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20171110-67169.b\6_03-277.D

Injection Date:	10-Nov-2017 14:18:38	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-127239-A-9-E MSD			Worklist Smp#:	15
Client ID:	NS-SOUTH-SOIL 2-12"				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 10/28/2017 14:46

Analysis Batch Number: 384409 End Date: 10/28/2017 21:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-384409/6		10/28/2017 14:46	1	6_02-270.D	ZB-5 0.53(mm)
IC 480-384409/6		10/28/2017 14:46	1	6_02-270.D	ZB-35 0.53(mm)
IC 480-384409/7		10/28/2017 15:02	1	6_02-271.D	ZB-5 0.53(mm)
IC 480-384409/7		10/28/2017 15:02	1	6_02-271.D	ZB-35 0.53(mm)
ICIS 480-384409/8		10/28/2017 15:18	1	6_02-272.D	ZB-5 0.53(mm)
ICIS 480-384409/8		10/28/2017 15:18	1	6_02-272.D	ZB-35 0.53(mm)
IC 480-384409/9		10/28/2017 15:34	1	6_02-273.D	ZB-5 0.53(mm)
IC 480-384409/9		10/28/2017 15:34	1	6_02-273.D	ZB-35 0.53(mm)
IC 480-384409/10		10/28/2017 15:50	1	6_02-274.D	ZB-5 0.53(mm)
IC 480-384409/10		10/28/2017 15:50	1	6_02-274.D	ZB-35 0.53(mm)
IC 480-384409/11		10/28/2017 16:06	1	6_02-275.D	ZB-5 0.53(mm)
IC 480-384409/11		10/28/2017 16:06	1	6_02-275.D	ZB-35 0.53(mm)
IC 480-384409/12		10/28/2017 16:22	1	6_02-276.D	ZB-5 0.53(mm)
IC 480-384409/12		10/28/2017 16:22	1	6_02-276.D	ZB-35 0.53(mm)
ICV 480-384409/13		10/28/2017 16:38	1		ZB-5 0.53(mm)
ICV 480-384409/13		10/28/2017 16:38	1		ZB-35 0.53(mm)
CCV 480-384409/14		10/28/2017 16:54	1		ZB-5 0.53(mm)
CCV 480-384409/14		10/28/2017 16:54	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2017 17:26	1		ZB-5 0.53(mm)
ZZZZZ		10/28/2017 17:26	1		ZB-35 0.53(mm)
CCVL 480-384409/17		10/28/2017 17:42	1		ZB-5 0.53(mm)
CCVL 480-384409/17		10/28/2017 17:42	1		ZB-35 0.53(mm)
IC 480-384409/18		10/28/2017 17:58	1	6_02-282.D	ZB-5 0.53(mm)
IC 480-384409/18		10/28/2017 17:58	1	6_02-282.D	ZB-35 0.53(mm)
IC 480-384409/19		10/28/2017 18:14	1	6_02-283.D	ZB-5 0.53(mm)
IC 480-384409/19		10/28/2017 18:14	1	6_02-283.D	ZB-35 0.53(mm)
IC 480-384409/20		10/28/2017 18:30	1	6_02-284.D	ZB-5 0.53(mm)
IC 480-384409/20		10/28/2017 18:30	1	6_02-284.D	ZB-35 0.53(mm)
ICV 480-384409/21		10/28/2017 18:46	1		ZB-5 0.53(mm)
ICV 480-384409/21		10/28/2017 18:46	1		ZB-35 0.53(mm)
IC 480-384409/22		10/28/2017 19:02	1	6_02-286.D	ZB-5 0.53(mm)
IC 480-384409/22		10/28/2017 19:02	1	6_02-286.D	ZB-35 0.53(mm)
IC 480-384409/23		10/28/2017 19:18	1	6_02-287.D	ZB-5 0.53(mm)
IC 480-384409/23		10/28/2017 19:18	1	6_02-287.D	ZB-35 0.53(mm)
IC 480-384409/24		10/28/2017 19:34	1	6_02-288.D	ZB-5 0.53(mm)
IC 480-384409/24		10/28/2017 19:34	1	6_02-288.D	ZB-35 0.53(mm)
ICV 480-384409/25		10/28/2017 19:50	1		ZB-5 0.53(mm)
ICV 480-384409/25		10/28/2017 19:50	1		ZB-35 0.53(mm)
IC 480-384409/30		10/28/2017 21:10	1	6_02-294.D	ZB-5 0.53(mm)
IC 480-384409/30		10/28/2017 21:10	1	6_02-294.D	ZB-35 0.53(mm)
IC 480-384409/31		10/28/2017 21:27	1	6_02-295.D	ZB-5 0.53(mm)
IC 480-384409/31		10/28/2017 21:27	1	6_02-295.D	ZB-35 0.53(mm)
IC 480-384409/32		10/28/2017 21:43	1	6_02-296.D	ZB-5 0.53(mm)
IC 480-384409/32		10/28/2017 21:43	1	6_02-296.D	ZB-35 0.53(mm)
ICV 480-384409/33		10/28/2017 21:59	1		ZB-5 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 10/28/2017 14:46

Analysis Batch Number: 384409 End Date: 10/28/2017 21:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICV 480-384409/33		10/28/2017 21:59	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 10/30/2017 14:11

Analysis Batch Number: 384635 End Date: 10/30/2017 14:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-384635/4		10/30/2017 14:11	1	6_02-301.D	ZB-5 0.53(mm)
IC 480-384635/4		10/30/2017 14:11	1	6_02-301.D	ZB-35 0.53(mm)
IC 480-384635/5		10/30/2017 14:27	1	6_02-302.D	ZB-5 0.53(mm)
IC 480-384635/5		10/30/2017 14:27	1	6_02-302.D	ZB-35 0.53(mm)
IC 480-384635/6		10/30/2017 14:43	1	6_02-303.D	ZB-5 0.53(mm)
IC 480-384635/6		10/30/2017 14:43	1	6_02-303.D	ZB-35 0.53(mm)
ICV 480-384635/7		10/30/2017 14:59	1		ZB-5 0.53(mm)
ICV 480-384635/7		10/30/2017 14:59	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 11/10/2017 11:21

Analysis Batch Number: 386747 End Date: 11/10/2017 19:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 480-386747/4		11/10/2017 11:21	1	6_03-266.D	ZB-5 0.53(mm)
CCVIS 480-386747/4		11/10/2017 11:21	1	6_03-266.D	ZB-35 0.53(mm)
CCV 480-386747/5		11/10/2017 11:37	1	6_03-267.D	ZB-5 0.53(mm)
CCV 480-386747/5		11/10/2017 11:37	1	6_03-267.D	ZB-35 0.53(mm)
CCV 480-386747/6		11/10/2017 11:53	1	6_03-268.D	ZB-5 0.53(mm)
CCV 480-386747/6		11/10/2017 11:53	1	6_03-268.D	ZB-35 0.53(mm)
CCV 480-386747/7		11/10/2017 12:09	1	6_03-269.D	ZB-5 0.53(mm)
CCV 480-386747/7		11/10/2017 12:09	1	6_03-269.D	ZB-35 0.53(mm)
CCV 480-386747/8		11/10/2017 12:25	1	6_03-270.D	ZB-5 0.53(mm)
CCV 480-386747/8		11/10/2017 12:25	1	6_03-270.D	ZB-35 0.53(mm)
MB 480-386487/1-A		11/10/2017 12:57	1	6_03-272.D	ZB-5 0.53(mm)
MB 480-386487/1-A		11/10/2017 12:57	1	6_03-272.D	ZB-35 0.53(mm)
LCS 480-386487/2-A		11/10/2017 13:13	1	6_03-273.D	ZB-5 0.53(mm)
LCS 480-386487/2-A		11/10/2017 13:13	1	6_03-273.D	ZB-35 0.53(mm)
480-127239-3 MS		11/10/2017 13:29	1	6_03-274.D	ZB-5 0.53(mm)
480-127239-3 MS		11/10/2017 13:29	1	6_03-274.D	ZB-35 0.53(mm)
480-127239-3 MSD		11/10/2017 13:45	1	6_03-275.D	ZB-5 0.53(mm)
480-127239-3 MSD		11/10/2017 13:45	1	6_03-275.D	ZB-35 0.53(mm)
480-127239-9 MS		11/10/2017 14:01	1	6_03-276.D	ZB-5 0.53(mm)
480-127239-9 MS		11/10/2017 14:01	1	6_03-276.D	ZB-35 0.53(mm)
480-127239-9 MSD		11/10/2017 14:18	1	6_03-277.D	ZB-5 0.53(mm)
480-127239-9 MSD		11/10/2017 14:18	1	6_03-277.D	ZB-35 0.53(mm)
480-127239-3		11/10/2017 14:34	1	6_03-278.D	ZB-5 0.53(mm)
480-127239-3		11/10/2017 14:34	1	6_03-278.D	ZB-35 0.53(mm)
480-127239-9		11/10/2017 14:50	1	6_03-279.D	ZB-5 0.53(mm)
480-127239-9		11/10/2017 14:50	1	6_03-279.D	ZB-35 0.53(mm)
480-127239-1		11/10/2017 15:06	1	6_03-280.D	ZB-5 0.53(mm)
480-127239-1		11/10/2017 15:06	1	6_03-280.D	ZB-35 0.53(mm)
480-127239-2		11/10/2017 15:22	1	6_03-281.D	ZB-5 0.53(mm)
480-127239-2		11/10/2017 15:22	1	6_03-281.D	ZB-35 0.53(mm)
480-127239-4		11/10/2017 15:38	1	6_03-282.D	ZB-5 0.53(mm)
480-127239-4		11/10/2017 15:38	1	6_03-282.D	ZB-35 0.53(mm)
480-127239-5		11/10/2017 15:54	1	6_03-283.D	ZB-5 0.53(mm)
480-127239-5		11/10/2017 15:54	1	6_03-283.D	ZB-35 0.53(mm)
480-127239-6		11/10/2017 16:10	1	6_03-284.D	ZB-5 0.53(mm)
480-127239-6		11/10/2017 16:10	1	6_03-284.D	ZB-35 0.53(mm)
480-127239-7		11/10/2017 16:25	1	6_03-285.D	ZB-5 0.53(mm)
480-127239-7		11/10/2017 16:25	1	6_03-285.D	ZB-35 0.53(mm)
480-127239-8		11/10/2017 16:41	1	6_03-286.D	ZB-5 0.53(mm)
480-127239-8		11/10/2017 16:41	1	6_03-286.D	ZB-35 0.53(mm)
480-127239-10		11/10/2017 16:57	1	6_03-287.D	ZB-5 0.53(mm)
480-127239-10		11/10/2017 16:57	1	6_03-287.D	ZB-35 0.53(mm)
480-127239-11		11/10/2017 17:13	1	6_03-288.D	ZB-5 0.53(mm)
480-127239-11		11/10/2017 17:13	1	6_03-288.D	ZB-35 0.53(mm)
480-127239-12		11/10/2017 17:29	1	6_03-289.D	ZB-5 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 11/10/2017 11:21

Analysis Batch Number: 386747 End Date: 11/10/2017 19:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
480-127239-12		11/10/2017 17:29	1	6_03-289.D	ZB-35 0.53(mm)
ZZZZZ		11/10/2017 17:45	1		ZB-5 0.53(mm)
ZZZZZ		11/10/2017 17:45	1		ZB-35 0.53(mm)
ZZZZZ		11/10/2017 18:01	1		ZB-5 0.53(mm)
ZZZZZ		11/10/2017 18:01	1		ZB-35 0.53(mm)
CCV 480-386747/30		11/10/2017 18:17	1		ZB-5 0.53(mm)
CCV 480-386747/30		11/10/2017 18:17	1		ZB-35 0.53(mm)
ZZZZZ		11/10/2017 18:49	1		ZB-5 0.53(mm)
ZZZZZ		11/10/2017 18:49	1		ZB-35 0.53(mm)
ZZZZZ		11/10/2017 19:05	1		ZB-5 0.53(mm)
ZZZZZ		11/10/2017 19:05	1		ZB-35 0.53(mm)
ZZZZZ		11/10/2017 19:20	1		ZB-5 0.53(mm)
ZZZZZ		11/10/2017 19:20	1		ZB-35 0.53(mm)
ZZZZZ		11/10/2017 19:36	1		ZB-5 0.53(mm)
ZZZZZ		11/10/2017 19:36	1		ZB-35 0.53(mm)
ZZZZZ		11/10/2017 19:52	1		ZB-5 0.53(mm)
ZZZZZ		11/10/2017 19:52	1		ZB-35 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Batch Number: 386487 Batch Start Date: 11/09/17 10:51 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00104	O_8082spike 00062	
MB 480-386487/1		3550C, 8082A		CALC NOT SET TO RUN	2.42 g	10 mL	1 mL		
LCS 480-386487/2		3550C, 8082A		CALC NOT SET TO RUN	2.38 g	10 mL	1 mL	1 mL	
480-127239-A-3 MS	NS-SOUTH-SOIL 0-2"	3550C, 8082A	T	CALC NOT SET TO RUN	2.48 g	10 mL	1 mL	1 mL	
480-127239-A-3 MSD	NS-SOUTH-SOIL 0-2"	3550C, 8082A	T	CALC NOT SET TO RUN	2.11 g	10 mL	1 mL	1 mL	
480-127239-A-9 MS	NS-SOUTH-SOIL 2-12"	3550C, 8082A	T	CALC NOT SET TO RUN	2.62 g	10 mL	1 mL	1 mL	
480-127239-A-9 MSD	NS-SOUTH-SOIL 2-12"	3550C, 8082A	T	CALC NOT SET TO RUN	2.11 g	10 mL	1 mL	1 mL	
480-127239-A-3	NS-SOUTH-SOIL 0-2"	3550C, 8082A	T	CALC NOT SET TO RUN	2.50 g	10 mL	1 mL		
480-127239-A-9	NS-SOUTH-SOIL 2-12"	3550C, 8082A	T	CALC NOT SET TO RUN	2.15 g	10 mL	1 mL		
480-127239-A-1	NS-NORTH-SOIL 0-2"	3550C, 8082A	T	CALC NOT SET TO RUN	2.42 g	10 mL	1 mL		
480-127239-A-2	NS-EAST-SOIL 0-2"	3550C, 8082A	T	CALC NOT SET TO RUN	2.33 g	10 mL	1 mL		
480-127239-A-4	NS-WEST-SOIL 0-2"	3550C, 8082A	T	CALC NOT SET TO RUN	2.15 g	10 mL	1 mL		
480-127239-A-5	NS-SBN-SOIL 0-2"	3550C, 8082A	T	CALC NOT SET TO RUN	2.61 g	10 mL	1 mL		
480-127239-A-6	NS-DUP-SOIL 0-2"	3550C, 8082A	T	CALC NOT SET TO RUN	2.22 g	10 mL	1 mL		
480-127239-A-7	NS-NORTH-SOIL 2-12"	3550C, 8082A	T	CALC NOT SET TO RUN	2.12 g	10 mL	1 mL		
480-127239-A-8	NS-EAST-SOIL 2-12"	3550C, 8082A	T	CALC NOT SET TO RUN	2.08 g	10 mL	1 mL		
480-127239-A-10	NS-WEST-SOIL 2-12"	3550C, 8082A	T	CALC NOT SET TO RUN	2.51 g	10 mL	1 mL		
480-127239-A-11	NS-SBN-SOIL 2-12"	3550C, 8082A	T	CALC NOT SET TO RUN	2.85 g	10 mL	1 mL		
480-127239-A-12	NS-DUP-SOIL 2-12"	3550C, 8082A	T	CALC NOT SET TO RUN	2.86 g	10 mL	1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Batch Number: 386487 Batch Start Date: 11/09/17 10:51 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Batch Notes	
Acid used for Clean Up ID	Sulfuric; 4312210
Batch Comment	Clean up: BK 11/9/17
Blank Soil Lot Number	4334261
Analyst ID - Clean Up	BK
Na2SO4 ID	4334261
Nominal Amount Used	2 g
Prep Solvent ID	4304280
Prep Solvent Name	Hexane
Prep Solvent Volume Used	10
Analyst ID - Reagent Drop Witness	BK
Perform Calculation (0=No, 1=Yes)	0

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 Buffalo Job Number: 480-127239-1

SDG No.:

Project: Nash Rd. Wheatfield #932054

Client Sample ID	Lab Sample ID
NS-NORTH-SOIL 0-2"	480-127239-1
NS-EAST-SOIL 0-2"	480-127239-2
NS-SOUTH-SOIL 0-2"	480-127239-3
NS-WEST-SOIL 0-2"	480-127239-4
NS-SBN-SOIL 0-2"	480-127239-5
NS-DUP-SOIL 0-2"	480-127239-6
NS-NORTH-SOIL 2-12"	480-127239-7
NS-EAST-SOIL 2-12"	480-127239-8
NS-SOUTH-SOIL 2-12"	480-127239-9
NS-WEST-SOIL 2-12"	480-127239-10
NS-SBN-SOIL 2-12"	480-127239-11
NS-DUP-SOIL 2-12"	480-127239-12

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-127239-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-127239-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 11/08/2017 19:17 End Date: 11/08/2017 19:17

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				
480-127239-1	1	T	19:17	X	X																		
480-127239-2	1	T	19:17	X	X																		
480-127239-3	1	T	19:17	X	X																		
480-127239-3 MS	1	T	19:17	X	X																		
480-127239-3 MSD	1	T	19:17	X	X																		
480-127239-4	1	T	19:17	X	X																		
480-127239-5	1	T	19:17	X	X																		
480-127239-6	1	T	19:17	X	X																		
480-127239-7	1	T	19:17	X	X																		
480-127239-8	1	T	19:17	X	X																		
480-127239-9	1	T	19:17	X	X																		
480-127239-9 MS	1	T	19:17	X	X																		
480-127239-9 MSD	1	T	19:17	X	X																		
480-127239-10	1	T	19:17	X	X																		
480-127239-11	1	T	19:17	X	X																		
480-127239-12	1	T	19:17	X	X																		
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-127239-1

SDG No.:

Batch Number: 386367 Batch Start Date: 11/08/17 19:17 Batch Analyst: Harper, Marcus D

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-127239-A-1	NS-NORTH-SOIL 0-2"	Moisture	T	5	4.30 g	7.91 g	7.00 g		
480-127239-A-2	NS-EAST-SOIL 0-2"	Moisture	T	6	4.30 g	7.87 g	6.68 g		
480-127239-A-3	NS-SOUTH-SOIL 0-2"	Moisture	T	7	4.30 g	8.29 g	7.25 g		
480-127239-A-3 MS	NS-SOUTH-SOIL 0-2"	Moisture	T	7	4.30 g	8.29 g	7.25 g		
480-127239-A-3 MSD	NS-SOUTH-SOIL 0-2"	Moisture	T	7	4.30 g	8.29 g	7.25 g		
480-127239-A-4	NS-WEST-SOIL 0-2"	Moisture	T	8	4.30 g	9.47 g	8.31 g		
480-127239-A-5	NS-SBN-SOIL 0-2"	Moisture	T	9	4.30 g	8.38 g	7.66 g		
480-127239-A-6	NS-DUP-SOIL 0-2"	Moisture	T	10	4.30 g	7.93 g	6.99 g		
480-127239-A-7	NS-NORTH-SOIL 2-12"	Moisture	T	11	4.30 g	9.30 g	7.87 g		
480-127239-A-8	NS-EAST-SOIL 2-12"	Moisture	T	12	4.30 g	8.70 g	7.68 g		
480-127239-A-9	NS-SOUTH-SOIL 2-12"	Moisture	T	13	4.30 g	8.74 g	7.91 g		
480-127239-A-9 MS	NS-SOUTH-SOIL 2-12"	Moisture	T	13	4.30 g	8.74 g	7.91 g		
480-127239-A-9 MSD	NS-SOUTH-SOIL 2-12"	Moisture	T	13	4.30 g	8.74 g	7.91 g		
480-127239-A-10	NS-WEST-SOIL 2-12"	Moisture	T	14	4.30 g	8.95 g	8.19 g		
480-127239-A-11	NS-SBN-SOIL 2-12"	Moisture	T	15	4.30 g	9.16 g	8.49 g		
480-127239-A-12	NS-DUP-SOIL 2-12"	Moisture	T	16	4.30 g	9.98 g	9.09 g		

Batch Notes	
Date samples were placed in the oven	11/08/2017
Time samples were place in the oven	1930
Date samples were removed from oven	09NOV2017
Time Samples were removed from oven	0835

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 Buffalo Job No.: 480-127239-1

SDG No.:

Batch Number: 386367 Batch Start Date: 11/08/17 19:17 Batch Analyst: Harper, Marcus D

Batch Method: Moisture Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

187446

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TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Glenn May	Site Contact:	Date:	COC No:
Company Name: NYSDEC	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 270 Michigan Ave	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use:
Phone:	TAT if different from Below 3 day			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sample:
Project Name: Niagara Sanitation	☐ 1 week			
Site: Nash Rd - Wheatfield	☐ 2 days			Job / SDG:
P O #	☐ 1 day			480-127239 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	SVOC	PCBs	Sample Specific Notes:
NS-North-SOIL 0-2"	11/7	1310	G	SOIL			N	X	X	
NS-East-SOIL 0-2"	11/7	1350	G				N	X	X	
NS-South-SOIL 0-2"	11/7	1430	G				Y	X	X	
NS-West-SOIL 0-2"	11/7	1450	G				N	X	X	
NS-SBN-SOIL 0-2"	11/7	1520	G				N	X	X	
NS-DUP-SOIL 0-2"	11/7	—	G				N	X	X	
NS-North-SOIL 2-12"	11/7	1310	G				N	X	X	
NS-East-SOIL 2-12"	11/7	1350	G				N	X	X	
NS-South-SOIL 2-12"	11/7	1430	G				Y	X	X	
NS-West-SOIL 2-12"	11/7	1450	G				N	X	X	
NS-SBN-SOIL 2-12"	11/7	1520	G				N	X	X	
NS-DUP-SOIL 2-12"	11/7	—	G				N	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ 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:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Andrew Koons	LiRo	11/7/17		TA Buf.	11/7/17 1600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

#1 3.1°C

11/20/2017

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-127239-1

Login Number: 127239 **List Source: TestAmerica Buffalo**
List Number: 1
Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LIRO
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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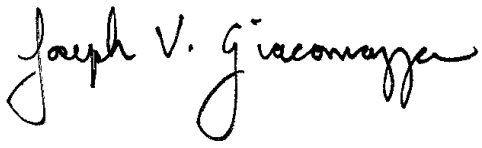
ANALYTICAL REPORT

Job Number: 320-34256-1

Job Description: Nash Rd. Wheatfield #932054

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, NY 14203

Attention: Mr. Glenn May



Approved for release.
Joe V Giacomazza
Project Management Assistant II
12/21/2017 4:12 PM

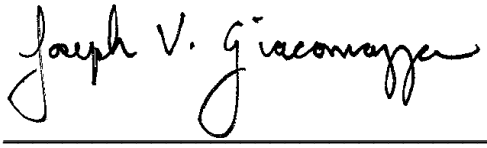
Designee for
Orlette S Johnson, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0864
orlette.johnson@testamericainc.com
12/21/2017

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Job Number: 320-34256-1

Job Description: Nash Rd. Wheatfield #932054

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Approved for release.
Joe V Giacomazza
Project Management Assistant II
12/21/2017 4:12 PM

Designee for
Orlette S Johnson

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Qualifiers

LCMS

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

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
320-34256-1

Comments
No additional comments.

Receipt
The samples were received on 12/13/2017 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5º C.

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

Organic Prep
Method(s) 3535: The following samples: NS-LDP-01-GW (320-34256-1), NS-LDP-01-GW (320-34256-1[MS]), NS-LDP-01-GW (320-34256-1[MSD]), NS-OW-36-GW (320-34256-4) and NS-OWD-GW (320-34256-5) were decanted prior to preparation due to sediment being present. Method code 3535_PFC, waters

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 320-34256-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-34256-1	NS-LDP-01-GW	Water	12/12/17 09:15	12/13/17 10:20
320-34256-2	NS-LDP-02-GW	Water	12/12/17 09:45	12/13/17 10:20
320-34256-3	NS-LDP-03-GW	Water	12/12/17 10:20	12/13/17 10:20
320-34256-4	NS-OW-36-GW	Water	12/12/17 12:25	12/13/17 10:20
320-34256-5	NS-OWD-GW	Water	12/12/17 00:00	12/13/17 10:20

Detection Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 320-34256-1

Client Sample ID: NS-LDP-01-GW — Lab Sample ID: 320-34256-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	13		2.0	0.35	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.4	J	2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.4	J	2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.94	J	2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.8		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	8.3		2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.2	B	2.0	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.0	J	2.0	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: NS-LDP-02-GW — Lab Sample ID: 320-34256-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	13		2.1	0.36	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.3		2.1	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.0	J	2.1	0.60	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.66	J	2.1	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.2		2.1	0.88	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.9		2.1	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6	B	2.1	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.6		2.1	0.56	ng/L	1		537 (modified)	Total/NA
Perfluorooctane Sulfonamide (FOSA)	0.42	J	2.1	0.36	ng/L	1		537 (modified)	Total/NA

Client Sample ID: NS-LDP-03-GW — Lab Sample ID: 320-34256-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.95	J	2.0	0.35	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.63	J B	2.0	0.17	ng/L	1		537 (modified)	Total/NA

Client Sample ID: NS-OW-36-GW — Lab Sample ID: 320-34256-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	20		2.0	0.35	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.5		2.0	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	16		2.0	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	16		2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	100		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.65	J	2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.0		2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	58	B	2.0	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	25		2.0	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	480		2.0	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.59	J	2.0	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorooctane Sulfonamide (FOSA)	1.0	J	2.0	0.35	ng/L	1		537 (modified)	Total/NA

Client Sample ID: NS-OWD-GW — Lab Sample ID: 320-34256-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	23		2.0	0.36	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.9		2.0	0.50	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NS-OWD-GW (Continued)

Lab Sample ID: 320-34256-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	16		2.0	0.59	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	16		2.0	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	110		2.0	0.87	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.74	J	2.0	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.7		2.0	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	59	B	2.0	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	25		2.0	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	500		2.0	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.76	J	2.0	0.33	ng/L	1		537 (modified)	Total/NA
Perfluorooctane Sulfonamide (FOSA)	0.81	J	2.0	0.36	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NS-LDP-01-GW

Lab Sample ID: 320-34256-1

Date Collected: 12/12/17 09:15

Matrix: Water

Date Received: 12/13/17 10:20

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**13**		2.0	0.35	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluoropentanoic acid (PFPeA)	**1.4**	**J**	2.0	0.49	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorohexanoic acid (PFHxA)	**1.4**	**J**	2.0	0.58	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluoroheptanoic acid (PFHpA)	**0.94**	**J**	2.0	0.25	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorooctanoic acid (PFOA)	**3.8**		2.0	0.85	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorobutanesulfonic acid (PFBS)	**8.3**		2.0	0.20	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorohexanesulfonic acid (PFHxS)	**2.2**	**B**	2.0	0.17	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorooctanesulfonic acid (PFOS)	**1.0**	**J**	2.0	0.54	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		12/15/17 08:43	12/15/17 20:41	1
Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35	ng/L		12/15/17 08:43	12/15/17 20:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C5 PFPeA	*129*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C2 PFHxA	*115*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C4-PFHpA	*121*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C4 PFOA	*111*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C5 PFNA	*118*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C2 PFDA	*118*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C2 PFUnA	*111*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C2 PFDoA	*106*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C2-PFTeDA	*132*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C3-PFBS	*118*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
18O2 PFHxS	*117*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C4 PFOS	*115*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*
13C8 FOSA	*109*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:41*	*1*

Client Sample ID: NS-LDP-02-GW

Lab Sample ID: 320-34256-2

Date Collected: 12/12/17 09:45

Matrix: Water

Date Received: 12/13/17 10:20

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**13**		2.1	0.36	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluoropentanoic acid (PFPeA)	**2.3**		2.1	0.50	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorohexanoic acid (PFHxA)	**1.0**	**J**	2.1	0.60	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluoroheptanoic acid (PFHpA)	**0.66**	**J**	2.1	0.26	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorooctanoic acid (PFOA)	**4.2**		2.1	0.88	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorononanoic acid (PFNA)	ND		2.1	0.28	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorodecanoic acid (PFDA)	ND		2.1	0.32	ng/L		12/15/17 08:43	12/15/17 21:05	1

Client Sample ID: NS-LDP-02-GW

Lab Sample ID: 320-34256-2

Date Collected: 12/12/17 09:45

Matrix: Water

Date Received: 12/13/17 10:20

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	ND		2.1	1.1	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorododecanoic acid (PFDoA)	ND		2.1	0.57	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.1	1.3	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.1	0.30	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorobutanesulfonic acid (PFBS)	**3.9**		2.1	0.21	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorohexanesulfonic acid (PFHxS)	**3.6**	**B**	2.1	0.18	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.1	0.20	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorooctanesulfonic acid (PFOS)	**2.6**		2.1	0.56	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.1	0.33	ng/L		12/15/17 08:43	12/15/17 21:05	1
Perfluorooctane Sulfonamide (FOSA)	**0.42**	**J**	2.1	0.36	ng/L		12/15/17 08:43	12/15/17 21:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C5 PFPeA	*125*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C2 PFHxA	*120*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C4-PFHpA	*114*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C4 PFOA	*104*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C5 PFNA	*117*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C2 PFDA	*125*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C2 PFUnA	*109*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C2 PFDoA	*107*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C2-PFTeDA	*134*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C3-PFBS	*112*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
18O2 PFHxS	*118*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C4 PFOS	*117*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*
13C8 FOSA	*109*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:05*	*1*

Client Sample ID: NS-LDP-03-GW

Lab Sample ID: 320-34256-3

Date Collected: 12/12/17 10:20

Matrix: Water

Date Received: 12/13/17 10:20

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.95**	**J**	2.0	0.35	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.59	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.86	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.56	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorobutanesulfonic acid (PFBS)	**1.1**	**J**	2.0	0.20	ng/L		12/15/17 08:43	12/15/17 21:13	1

Client Sample ID: NS-LDP-03-GW

Lab Sample ID: 320-34256-3

Date Collected: 12/12/17 10:20

Matrix: Water

Date Received: 12/13/17 10:20

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	**0.63**	**J B**	2.0	0.17	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.55	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		12/15/17 08:43	12/15/17 21:13	1
Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35	ng/L		12/15/17 08:43	12/15/17 21:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C5 PFPeA	*129*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C2 PFHxA	*114*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C4-PFHpA	*111*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C4 PFOA	*104*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C5 PFNA	*113*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C2 PFDA	*121*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C2 PFUnA	*116*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C2 PFDoA	*111*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C2-PFTeDA	*130*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C3-PFBS	*116*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
18O2 PFHxS	*118*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C4 PFOS	*120*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*
13C8 FOSA	*111*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:13*	*1*

Client Sample ID: NS-OW-36-GW

Lab Sample ID: 320-34256-4

Date Collected: 12/12/17 12:25

Matrix: Water

Date Received: 12/13/17 10:20

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**20**		2.0	0.35	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluoropentanoic acid (PFPeA)	**4.5**		2.0	0.49	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorohexanoic acid (PFHxA)	**16**		2.0	0.58	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluoroheptanoic acid (PFHpA)	**16**		2.0	0.25	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorooctanoic acid (PFOA)	**100**		2.0	0.85	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorononanoic acid (PFNA)	**0.65**	**J**	2.0	0.27	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorobutanesulfonic acid (PFBS)	**4.0**		2.0	0.20	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorohexanesulfonic acid (PFHxS)	**58**	**B**	2.0	0.17	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	**25**		2.0	0.19	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorooctanesulfonic acid (PFOS)	**480**		2.0	0.54	ng/L		12/15/17 08:43	12/15/17 21:21	1
Perfluorodecanesulfonic acid (PFDS)	**0.59**	**J**	2.0	0.32	ng/L		12/15/17 08:43	12/15/17 21:21	1

Client Sample ID: NS-OW-36-GW

Lab Sample ID: 320-34256-4

Date Collected: 12/12/17 12:25
Matrix: Water
Date Received: 12/13/17 10:20

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonamide (FOSA)	**1.0**	**J**	2.0	0.35	ng/L		12/15/17 08:43	12/15/17 21:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*32*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C5 PFPeA	*88*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C2 PFHxA	*89*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C4-PFHpA	*96*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C4 PFOA	*105*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C5 PFNA	*127*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C2 PFDA	*139*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C2 PFUnA	*134*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C2 PFDoA	*127*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C2-PFTeDA	*128*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C3-PFBS	*108*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
18O2 PFHxS	*112*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C4 PFOS	*125*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*
13C8 FOSA	*106*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:21*	*1*

Client Sample ID: NS-OWD-GW

Lab Sample ID: 320-34256-5

Date Collected: 12/12/17 00:00
Matrix: Water
Date Received: 12/13/17 10:20

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**23**		2.0	0.36	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluoropentanoic acid (PFPeA)	**4.9**		2.0	0.50	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorohexanoic acid (PFHxA)	**16**		2.0	0.59	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluoroheptanoic acid (PFHpA)	**16**		2.0	0.26	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorooctanoic acid (PFOA)	**110**		2.0	0.87	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorononanoic acid (PFNA)	**0.74**	**J**	2.0	0.28	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.32	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.56	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.30	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorobutanesulfonic acid (PFBS)	**3.7**		2.0	0.20	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorohexanesulfonic acid (PFHxS)	**59**	**B**	2.0	0.17	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	**25**		2.0	0.19	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorooctanesulfonic acid (PFOS)	**500**		2.0	0.55	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorodecanesulfonic acid (PFDS)	**0.76**	**J**	2.0	0.33	ng/L		12/15/17 08:43	12/15/17 21:29	1
Perfluorooctane Sulfonamide (FOSA)	**0.81**	**J**	2.0	0.36	ng/L		12/15/17 08:43	12/15/17 21:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*33*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:29*	*1*
13C5 PFPeA	*87*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:29*	*1*
13C2 PFHxA	*92*		*25 - 150*	*12/15/17 08:43*	*12/15/17 21:29*	*1*

Client Sample ID: NS-OWD-GW

Date Collected: 12/12/17 00:00
Date Received: 12/13/17 10:20

Lab Sample ID: 320-34256-5

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFHpA	98		25 - 150	12/15/17 08:43	12/15/17 21:29	1
13C4 PFOA	104		25 - 150	12/15/17 08:43	12/15/17 21:29	1
13C5 PFNA	128		25 - 150	12/15/17 08:43	12/15/17 21:29	1
13C2 PFDA	147		25 - 150	12/15/17 08:43	12/15/17 21:29	1
13C2 PFUnA	135		25 - 150	12/15/17 08:43	12/15/17 21:29	1
13C2 PFDoA	130		25 - 150	12/15/17 08:43	12/15/17 21:29	1
13C2-PFTeDA	134		25 - 150	12/15/17 08:43	12/15/17 21:29	1
13C3-PFBS	107		25 - 150	12/15/17 08:43	12/15/17 21:29	1
18O2 PFHxS	119		25 - 150	12/15/17 08:43	12/15/17 21:29	1
13C4 PFOS	126		25 - 150	12/15/17 08:43	12/15/17 21:29	1
13C8 FOSA	112		25 - 150	12/15/17 08:43	12/15/17 21:29	1

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 320-34256-1

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	PFHpA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-34256-1	NS-LDP-01-GW	92	129	115	121	111	118	118	111
320-34256-1 MS	NS-LDP-01-GW	91	125	112	116	105	114	120	112
320-34256-1 MSD	NS-LDP-01-GW	88	119	111	113	105	112	114	106
320-34256-2	NS-LDP-02-GW	92	125	120	114	104	117	125	109
320-34256-3	NS-LDP-03-GW	90	129	114	111	104	113	121	116
320-34256-4	NS-OW-36-GW	32	88	89	96	105	127	139	134
320-34256-5	NS-OWD-GW	33	87	92	98	104	128	147	135
LCS 320-200005/2-A	Lab Control Sample	113	117	112	113	108	114	116	113
MB 320-200005/1-A	Method Blank	115	117	118	124	105	118	119	119

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	3C3-PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)		
320-34256-1	NS-LDP-01-GW	106	132	118	117	115	109		
320-34256-1 MS	NS-LDP-01-GW	106	130	116	114	114	108		
320-34256-1 MSD	NS-LDP-01-GW	111	140	107	115	112	106		
320-34256-2	NS-LDP-02-GW	107	134	112	118	117	109		
320-34256-3	NS-LDP-03-GW	111	130	116	118	120	111		
320-34256-4	NS-OW-36-GW	127	128	108	112	125	106		
320-34256-5	NS-OWD-GW	130	134	107	119	126	112		
LCS 320-200005/2-A	Lab Control Sample	111	127	109	108	114	102		
MB 320-200005/1-A	Method Blank	113	137	112	115	117	105		

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
PFHpA = 13C4-PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2-PFTeDA
13C3-PFBS = 13C3-PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-200005/1-A
Matrix: Water
Analysis Batch: 200243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.0	0.35	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorohexanesulfonic acid (PFHxS)	0.265	J	2.0	0.17	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		12/15/17 08:43	12/15/17 20:25	1
Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35	ng/L		12/15/17 08:43	12/15/17 20:25	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*115*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C5 PFPeA	*117*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C2 PFHxA	*118*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C4-PFHpA	*124*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C4 PFOA	*105*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C5 PFNA	*118*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C2 PFDA	*119*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C2 PFUnA	*119*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C2 PFDoA	*113*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C2-PFTeDA	*137*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C3-PFBS	*112*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
18O2 PFHxS	*115*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C4 PFOS	*117*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*
13C8 FOSA	*105*		*25 - 150*	*12/15/17 08:43*	*12/15/17 20:25*	*1*

Lab Sample ID: LCS 320-200005/2-A
Matrix: Water
Analysis Batch: 200243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	42.0		ng/L		105	78 - 138
Perfluoropentanoic acid (PFPeA)	40.0	39.7		ng/L		99	66 - 136
Perfluorohexanoic acid (PFHxA)	40.0	40.2		ng/L		100	76 - 136
Perfluoroheptanoic acid (PFHpA)	40.0	40.6		ng/L		101	78 - 138
Perfluorooctanoic acid (PFOA)	40.0	35.7		ng/L		89	70 - 130
Perfluorononanoic acid (PFNA)	40.0	41.0		ng/L		103	77 - 137
Perfluorodecanoic acid (PFDA)	40.0	40.8		ng/L		102	74 - 134
Perfluoroundecanoic acid (PFUnA)	40.0	37.1		ng/L		93	68 - 128

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-200005/2-A
Matrix: Water
Analysis Batch: 200243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorododecanoic acid (PFDoA)	40.0	41.0		ng/L		103	72 - 132
Perfluorotridecanoic Acid (PFTriA)	40.0	40.8		ng/L		102	56 - 163
Perfluorotetradecanoic acid (PFTeA)	40.0	40.9		ng/L		102	63 - 123
Perfluorobutanesulfonic acid (PFBS)	35.4	38.4		ng/L		109	79 - 139
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.6		ng/L		101	77 - 137
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.1		ng/L		95	83 - 143
Perfluorooctanesulfonic acid (PFOS)	37.1	36.2		ng/L		97	74 - 134
Perfluorodecanesulfonic acid (PFDS)	38.6	37.3		ng/L		97	75 - 135
Perfluorooctane Sulfonamide (FOSA)	40.0	39.8		ng/L		100	82 - 142

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*113*		*25 - 150*
13C5 PFPeA	*117*		*25 - 150*
13C2 PFHxA	*112*		*25 - 150*
13C4-PFHpA	*113*		*25 - 150*
13C4 PFOA	*108*		*25 - 150*
13C5 PFNA	*114*		*25 - 150*
13C2 PFDA	*116*		*25 - 150*
13C2 PFUnA	*113*		*25 - 150*
13C2 PFDoA	*111*		*25 - 150*
13C2-PFTeDA	*127*		*25 - 150*
13C3-PFBS	*109*		*25 - 150*
18O2 PFHxS	*108*		*25 - 150*
13C4 PFOS	*114*		*25 - 150*
13C8 FOSA	*102*		*25 - 150*

Lab Sample ID: 320-34256-1 MS
Matrix: Water
Analysis Batch: 200243

Client Sample ID: NS-LDP-01-GW
Prep Type: Total/NA
Prep Batch: 200005

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	13		40.0	52.2		ng/L		99	78 - 138
Perfluoropentanoic acid (PFPeA)	1.4	J	40.0	38.3		ng/L		92	66 - 136
Perfluorohexanoic acid (PFHxA)	1.4	J	40.0	40.6		ng/L		98	76 - 136
Perfluoroheptanoic acid (PFHpA)	0.94	J	40.0	40.5		ng/L		99	78 - 138
Perfluorooctanoic acid (PFOA)	3.8		40.0	39.3		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	ND		40.0	38.9		ng/L		97	77 - 137
Perfluorodecanoic acid (PFDA)	ND		40.0	39.0		ng/L		97	74 - 134
Perfluoroundecanoic acid (PFUnA)	ND		40.0	37.1		ng/L		93	68 - 128
Perfluorododecanoic acid (PFDoA)	ND		40.0	39.8		ng/L		99	72 - 132

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 320-34256-1 MS
Matrix: Water
Analysis Batch: 200243

Client Sample ID: NS-LDP-01-GW
Prep Type: Total/NA
Prep Batch: 200005

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorotridecanoic Acid (PFTriA)	ND		40.0	40.9		ng/L		102	56 - 163
Perfluorotetradecanoic acid (PFTeA)	ND		40.0	37.5		ng/L		94	63 - 123
Perfluorobutanesulfonic acid (PFBS)	8.3		35.4	47.1		ng/L		109	79 - 139
Perfluorohexanesulfonic acid (PFHxS)	2.2	B	36.4	35.5		ng/L		91	77 - 137
Perfluoroheptanesulfonic Acid (PFHpS)	ND		38.1	33.6		ng/L		88	83 - 143
Perfluorooctanesulfonic acid (PFOS)	1.0	J	37.1	36.7		ng/L		96	74 - 134
Perfluorodecanesulfonic acid (PFDS)	ND		38.6	36.7		ng/L		95	75 - 135
Perfluorooctane Sulfonamide (FOSA)	ND		40.0	39.5		ng/L		99	82 - 142

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*91*		*25 - 150*
13C5 PFPeA	*125*		*25 - 150*
13C2 PFHxA	*112*		*25 - 150*
13C4-PFHpA	*116*		*25 - 150*
13C4 PFOA	*105*		*25 - 150*
13C5 PFNA	*114*		*25 - 150*
13C2 PFDA	*120*		*25 - 150*
13C2 PFUnA	*112*		*25 - 150*
13C2 PFDoA	*106*		*25 - 150*
13C2-PFTeDA	*130*		*25 - 150*
13C3-PFBS	*116*		*25 - 150*
18O2 PFHxS	*114*		*25 - 150*
13C4 PFOS	*114*		*25 - 150*
13C8 FOSA	*108*		*25 - 150*

Lab Sample ID: 320-34256-1 MSD
Matrix: Water
Analysis Batch: 200243

Client Sample ID: NS-LDP-01-GW
Prep Type: Total/NA
Prep Batch: 200005

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	13		39.4	52.8		ng/L		102	78 - 138	1	30
Perfluoropentanoic acid (PFPeA)	1.4	J	39.4	40.0		ng/L		98	66 - 136	4	30
Perfluorohexanoic acid (PFHxA)	1.4	J	39.4	39.4		ng/L		97	76 - 136	3	30
Perfluoroheptanoic acid (PFHpA)	0.94	J	39.4	40.6		ng/L		101	78 - 138	0	30
Perfluorooctanoic acid (PFOA)	3.8		39.4	38.9		ng/L		92	70 - 130	1	30
Perfluorononanoic acid (PFNA)	ND		39.4	38.0		ng/L		96	77 - 137	2	30
Perfluorodecanoic acid (PFDA)	ND		39.4	39.6		ng/L		100	74 - 134	1	30
Perfluoroundecanoic acid (PFUnA)	ND		39.4	38.8		ng/L		98	68 - 128	4	30
Perfluorododecanoic acid (PFDoA)	ND		39.4	39.8		ng/L		101	72 - 132	0	30
Perfluorotridecanoic Acid (PFTriA)	ND		39.4	43.2		ng/L		110	56 - 163	5	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 320-34256-1 MSD
Matrix: Water
Analysis Batch: 200243

Client Sample ID: NS-LDP-01-GW
Prep Type: Total/NA
Prep Batch: 200005

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorotetradecanoic acid (PFTeA)	ND		39.4	36.1		ng/L		92	63 - 123	4	30
Perfluorobutanesulfonic acid (PFBS)	8.3		34.8	48.5		ng/L		115	79 - 139	3	30
Perfluorohexanesulfonic acid (PFHxS)	2.2	B	35.9	36.8		ng/L		96	77 - 137	4	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		37.5	35.1		ng/L		94	83 - 143	5	30
Perfluorooctanesulfonic acid (PFOS)	1.0	J	36.6	36.5		ng/L		97	74 - 134	0	30
Perfluorodecanesulfonic acid (PFDS)	ND		38.0	38.6		ng/L		102	75 - 135	5	30
Perfluorooctane Sulfonamide (FOSA)	ND		39.4	39.5		ng/L		100	82 - 142	0	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*88*		*25 - 150*
13C5 PFPeA	*119*		*25 - 150*
13C2 PFHxA	*111*		*25 - 150*
13C4-PFHpA	*113*		*25 - 150*
13C4 PFOA	*105*		*25 - 150*
13C5 PFNA	*112*		*25 - 150*
13C2 PFDA	*114*		*25 - 150*
13C2 PFUnA	*106*		*25 - 150*
13C2 PFDoA	*111*		*25 - 150*
13C2-PFTeDA	*140*		*25 - 150*
13C3-PFBS	*107*		*25 - 150*
18O2 PFHxS	*115*		*25 - 150*
13C4 PFOS	*112*		*25 - 150*
13C8 FOSA	*106*		*25 - 150*

LCMS

Prep Batch: 200005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-34256-1	NS-LDP-01-GW	Total/NA	Water	3535	
320-34256-2	NS-LDP-02-GW	Total/NA	Water	3535	
320-34256-3	NS-LDP-03-GW	Total/NA	Water	3535	
320-34256-4	NS-OW-36-GW	Total/NA	Water	3535	
320-34256-5	NS-OWD-GW	Total/NA	Water	3535	
MB 320-200005/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-200005/2-A	Lab Control Sample	Total/NA	Water	3535	
320-34256-1 MS	NS-LDP-01-GW	Total/NA	Water	3535	
320-34256-1 MSD	NS-LDP-01-GW	Total/NA	Water	3535	

Analysis Batch: 200243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-34256-1	NS-LDP-01-GW	Total/NA	Water	537 (modified)	200005
320-34256-2	NS-LDP-02-GW	Total/NA	Water	537 (modified)	200005
320-34256-3	NS-LDP-03-GW	Total/NA	Water	537 (modified)	200005
320-34256-4	NS-OW-36-GW	Total/NA	Water	537 (modified)	200005
320-34256-5	NS-OWD-GW	Total/NA	Water	537 (modified)	200005
MB 320-200005/1-A	Method Blank	Total/NA	Water	537 (modified)	200005
LCS 320-200005/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	200005
320-34256-1 MS	NS-LDP-01-GW	Total/NA	Water	537 (modified)	200005
320-34256-1 MSD	NS-LDP-01-GW	Total/NA	Water	537 (modified)	200005

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 320-34256-1

Client Sample ID: NS-LDP-01-GW
Lab Sample ID: 320-34256-1
Date Collected: 12/12/17 09:15
Matrix: Water
Date Received: 12/13/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			200005	12/15/17 08:43	CCB	TAL SAC
Total/NA	Analysis	537 (modified)		1	200243	12/15/17 20:41	ABH	TAL SAC

Client Sample ID: NS-LDP-02-GW
Lab Sample ID: 320-34256-2
Date Collected: 12/12/17 09:45
Matrix: Water
Date Received: 12/13/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			200005	12/15/17 08:43	CCB	TAL SAC
Total/NA	Analysis	537 (modified)		1	200243	12/15/17 21:05	ABH	TAL SAC

Client Sample ID: NS-LDP-03-GW
Lab Sample ID: 320-34256-3
Date Collected: 12/12/17 10:20
Matrix: Water
Date Received: 12/13/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			200005	12/15/17 08:43	CCB	TAL SAC
Total/NA	Analysis	537 (modified)		1	200243	12/15/17 21:13	ABH	TAL SAC

Client Sample ID: NS-OW-36-GW
Lab Sample ID: 320-34256-4
Date Collected: 12/12/17 12:25
Matrix: Water
Date Received: 12/13/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			200005	12/15/17 08:43	CCB	TAL SAC
Total/NA	Analysis	537 (modified)		1	200243	12/15/17 21:21	ABH	TAL SAC

Client Sample ID: NS-OWD-GW
Lab Sample ID: 320-34256-5
Date Collected: 12/12/17 00:00
Matrix: Water
Date Received: 12/13/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			200005	12/15/17 08:43	CCB	TAL SAC
Total/NA	Analysis	537 (modified)		1	200243	12/15/17 21:29	ABH	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Method Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 320-34256-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 320-34256-1

Laboratory: TestAmerica Sacramento

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	UST-055	12-18-17 *
Arizona	State Program	9	AZ0708	08-11-18
Arkansas DEQ	State Program	6	88-0691	06-17-18
California	State Program	9	2897	01-31-18
Colorado	State Program	8	CA00044	08-31-18
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-18
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-18
Illinois	NELAP	5	200060	03-17-18
Kansas	NELAP	7	E-10375	12-31-17
L-A-B	DoD ELAP		L2468	01-20-18
Louisiana	NELAP	6	30612	06-30-18
Maine	State Program	1	CA0004	04-18-18
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA00044	07-31-18
New Hampshire	NELAP	1	2997	04-18-18
New Jersey	NELAP	2	CA005	06-30-18
New York	NELAP	2	11666	04-01-18
Oregon	NELAP	10	4040	01-28-18
Pennsylvania	NELAP	3	68-01272	03-31-18
Texas	NELAP	6	T104704399	05-31-18
US Fish & Wildlife	Federal		LE148388-0	07-31-18
USDA	Federal		P330-11-00436	12-30-17 *
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-18
Virginia	NELAP	3	460278	03-14-18
Washington	State Program	10	C581	05-05-18
West Virginia (DW)	State Program	3	9930C	12-31-17
Wyoming	State Program	8	8TMS-L	01-28-19

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method PFC IDA

Fluorinated Hydrocarbons by Method PFAS IDA

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	PFBS #	PFHxA #	PFHpA #	PFHxS #	PFOA #	PFNA #
NS-LDP-01-GW	320-34256-1	92	129	118	115	121	117	111	118
NS-LDP-02-GW	320-34256-2	92	125	112	120	114	118	104	117
NS-LDP-03-GW	320-34256-3	90	129	116	114	111	118	104	113
NS-OW-36-GW	320-34256-4	32	88	108	89	96	112	105	127
NS-OWD-GW	320-34256-5	33	87	107	92	98	119	104	128
	MB 320-200005/1-A	115	117	112	118	124	115	105	118
	LCS 320-200005/2-A	113	117	109	112	113	108	108	114
NS-LDP-01-GW MS	320-34256-1 MS	91	125	116	112	116	114	105	114
NS-LDP-01-GW MSD	320-34256-1 MSD	88	119	107	111	113	115	105	112

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
PFBS = 13C3-PFBS	25-150
PFHxA = 13C2 PFHxA	25-150
PFHpA = 13C4-PFHpA	25-150
PFHxS = 18O2 PFHxS	25-150
PFOA = 13C4 PFOA	25-150
PFNA = 13C5 PFNA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFOSA #	PFDA #	PFUnA #	PFDoA #	PFTDA #
NS-LDP-01-GW	320-34256-1	115	109	118	111	106	132
NS-LDP-02-GW	320-34256-2	117	109	125	109	107	134
NS-LDP-03-GW	320-34256-3	120	111	121	116	111	130
NS-OW-36-GW	320-34256-4	125	106	139	134	127	128
NS-OWD-GW	320-34256-5	126	112	147	135	130	134
	MB 320-200005/1-A	117	105	119	119	113	137
	LCS 320-200005/2-A	114	102	116	113	111	127
NS-LDP-01-GW MS	320-34256-1 MS	114	108	120	112	106	130
NS-LDP-01-GW MSD	320-34256-1 MSD	112	106	114	106	111	140

	QC LIMITS
PFOS = 13C4 PFOS	25-150
PFOSA = 13C8 FOSA	25-150
PFDA = 13C2 PFDA	25-150
PFUnA = 13C2 PFUnA	25-150
PFDoA = 13C2 PFDoA	25-150
PFTDA = 13C2-PFTeDA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2017.12.15LLBLLA_003.d

Lab ID: LCS 320-200005/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	42.0	105	78-138	
Perfluoropentanoic acid (PFPeA)	40.0	39.7	99	66-136	
Perfluorohexanoic acid (PFHxA)	40.0	40.2	100	76-136	
Perfluoroheptanoic acid (PFHpA)	40.0	40.6	101	78-138	
Perfluorooctanoic acid (PFOA)	40.0	35.7	89	70-130	
Perfluorononanoic acid (PFNA)	40.0	41.0	103	77-137	
Perfluorodecanoic acid (PFDA)	40.0	40.8	102	74-134	
Perfluoroundecanoic acid (PFUnA)	40.0	37.1	93	68-128	
Perfluorododecanoic acid (PFDoA)	40.0	41.0	103	72-132	
Perfluorotridecanoic Acid (PFTriA)	40.0	40.8	102	56-163	
Perfluorotetradecanoic acid (PFTeA)	40.0	40.9	102	63-123	
Perfluorobutanesulfonic acid (PFBS)	35.4	38.4	109	79-139	
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.6	101	77-137	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.1	95	83-143	
Perfluorooctanesulfonic acid (PFOS)	37.1	36.2	97	74-134	
Perfluorodecanesulfonic acid (PFDS)	38.6	37.3	97	75-135	
Perfluorooctane Sulfonamide (FOSA)	40.0	39.8	100	82-142	
13C4 PFBA	100	113	113	25-150	
13C5 PFPeA	100	117	117	25-150	
13C2 PFHxA	100	112	112	25-150	
13C4-PFHpA	100	113	113	25-150	
13C4 PFOA	100	108	108	25-150	
13C5 PFNA	100	114	114	25-150	
13C2 PFDA	100	116	116	25-150	
13C2 PFUnA	100	113	113	25-150	
13C2 PFDoA	100	111	111	25-150	
13C2-PFTeDA	100	127	127	25-150	
13C3-PFBS	93.0	101	109	25-150	
18O2 PFHxS	94.6	102	108	25-150	
13C4 PFOS	95.6	109	114	25-150	
13C8 FOSA	100	102	102	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2017.12.15LLBLLA_005.d

Lab ID: 320-34256-1 MS Client ID: NS-LDP-01-GW MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	13	52.2	99	78-138	
Perfluoropentanoic acid (PFPeA)	40.0	1.4 J	38.3	92	66-136	
Perfluorohexanoic acid (PFHxA)	40.0	1.4 J	40.6	98	76-136	
Perfluoroheptanoic acid (PFHpA)	40.0	0.94 J	40.5	99	78-138	
Perfluorooctanoic acid (PFOA)	40.0	3.8	39.3	91	70-130	
Perfluorononanoic acid (PFNA)	40.0	ND	38.9	97	77-137	
Perfluorodecanoic acid (PFDA)	40.0	ND	39.0	97	74-134	
Perfluoroundecanoic acid (PFUnA)	40.0	ND	37.1	93	68-128	
Perfluorododecanoic acid (PFDoA)	40.0	ND	39.8	99	72-132	
Perfluorotridecanoic Acid (PFTriA)	40.0	ND	40.9	102	56-163	
Perfluorotetradecanoic acid (PFTeA)	40.0	ND	37.5	94	63-123	
Perfluorobutanesulfonic acid (PFBS)	35.4	8.3	47.1	109	79-139	
Perfluorohexanesulfonic acid (PFHxS)	36.4	2.2	35.5	91	77-137	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	ND	33.6	88	83-143	
Perfluorooctanesulfonic acid (PFOS)	37.1	1.0 J	36.7	96	74-134	
Perfluorodecanesulfonic acid (PFDS)	38.6	ND	36.7	95	75-135	
Perfluorooctane Sulfonamide (FOSA)	40.0	ND	39.5	99	82-142	
13C4 PFBA	100	92	91.2	91	25-150	
13C5 PFPeA	100	130	126	125	25-150	
13C2 PFHxA	100	110	112	112	25-150	
13C4-PFHpA	100	120	116	116	25-150	
13C4 PFOA	100	110	105	105	25-150	
13C5 PFNA	100	120	114	114	25-150	
13C2 PFDA	100	120	120	120	25-150	
13C2 PFUnA	100	110	112	112	25-150	
13C2 PFDoA	100	110	106	106	25-150	
13C2-PFTeDA	100	130	130	130	25-150	
13C3-PFBS	93.1	110	108	116	25-150	
18O2 PFHxS	94.7	110	108	114	25-150	
13C4 PFOS	95.7	110	109	114	25-150	
13C8 FOSA	100	110	108	108	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2017.12.15LLBLLA_006.d

Lab ID: 320-34256-1 MSD Client ID: NS-LDP-01-GW MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	39.4	52.8	102	1	30	78-138	
Perfluoropentanoic acid (PFPeA)	39.4	40.0	98	4	30	66-136	
Perfluorohexanoic acid (PFHxA)	39.4	39.4	97	3	30	76-136	
Perfluoroheptanoic acid (PFHpA)	39.4	40.6	101	0	30	78-138	
Perfluorooctanoic acid (PFOA)	39.4	38.9	92	1	30	70-130	
Perfluorononanoic acid (PFNA)	39.4	38.0	96	2	30	77-137	
Perfluorodecanoic acid (PFDA)	39.4	39.6	100	1	30	74-134	
Perfluoroundecanoic acid (PFUnA)	39.4	38.8	98	4	30	68-128	
Perfluorododecanoic acid (PFDoA)	39.4	39.8	101	0	30	72-132	
Perfluorotridecanoic Acid (PFTriA)	39.4	43.2	110	5	30	56-163	
Perfluorotetradecanoic acid (PFTeA)	39.4	36.1	92	4	30	63-123	
Perfluorobutanesulfonic acid (PFBS)	34.8	48.5	115	3	30	79-139	
Perfluorohexanesulfonic acid (PFHxS)	35.9	36.8	96	4	30	77-137	
Perfluoroheptanesulfonic Acid (PFHpS)	37.5	35.1	94	5	30	83-143	
Perfluorooctanesulfonic acid (PFOS)	36.6	36.5	97	0	30	74-134	
Perfluorodecanesulfonic acid (PFDS)	38.0	38.6	102	5	30	75-135	
Perfluorooctane Sulfonamide (FOSA)	39.4	39.5	100	0	30	82-142	
13C4 PFBA	98.5	86.5	88			25-150	
13C5 PFPeA	98.5	117	119			25-150	
13C2 PFHxA	98.5	110	111			25-150	
13C4-PFHpA	98.5	111	113			25-150	
13C4 PFOA	98.5	103	105			25-150	
13C5 PFNA	98.5	111	112			25-150	
13C2 PFDA	98.5	113	114			25-150	
13C2 PFUnA	98.5	104	106			25-150	
13C2 PFDoA	98.5	109	111			25-150	
13C2-PFTeDA	98.5	138	140			25-150	
13C3-PFBS	91.6	98.2	107			25-150	
18O2 PFHxS	93.2	108	115			25-150	
13C4 PFOS	94.2	106	112			25-150	
13C8 FOSA	98.5	104	106			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Lab File ID: 2017.12.15LLBLLA_002.d Lab Sample ID: MB 320-200005/1-A

Matrix: Water Date Extracted: 12/15/2017 08:43

Instrument ID: A8_N Date Analyzed: 12/15/2017 20:25

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-200005/2-A	2017.12.15LLBLLA_003.d	12/15/2017 20:33
NS-LDP-01-GW	320-34256-1	2017.12.15LLBLLA_004.d	12/15/2017 20:41
NS-LDP-01-GW MS	320-34256-1 MS	2017.12.15LLBLLA_005.d	12/15/2017 20:49
NS-LDP-01-GW MSD	320-34256-1 MSD	2017.12.15LLBLLA_006.d	12/15/2017 20:57
NS-LDP-02-GW	320-34256-2	2017.12.15LLBLLA_007.d	12/15/2017 21:05
NS-LDP-03-GW	320-34256-3	2017.12.15LLBLLA_008.d	12/15/2017 21:13
NS-OW-36-GW	320-34256-4	2017.12.15LLBLLA_009.d	12/15/2017 21:21
NS-OWD-GW	320-34256-5	2017.12.15LLBLLA_010.d	12/15/2017 21:29

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-LDP-01-GW | Lab Sample ID: 320-34256-1

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_004.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 09:15

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 250.8(mL) | Date Analyzed: 12/15/2017 20:41

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	13		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.4	J	2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	1.4	J	2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.94	J	2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	3.8		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	8.3		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.2	B	2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.0	J	2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-LDP-01-GW | Lab Sample ID: 320-34256-1

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_004.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 09:15

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 250.8(mL) | Date Analyzed: 12/15/2017 20:41

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	92		25-150
STL01893	13C5 PFPeA	129		25-150
STL00993	13C2 PFHxA	115		25-150
STL01892	13C4-PFHpA	121		25-150
STL00990	13C4 PFOA	111		25-150
STL00995	13C5 PFNA	118		25-150
STL00996	13C2 PFDA	118		25-150
STL00997	13C2 PFUnA	111		25-150
STL00998	13C2 PFDoA	106		25-150
STL02116	13C2-PFTeDA	132		25-150
STL02337	13C3-PFBS	118		25-150
STL00994	18O2 PFHxS	117		25-150
STL00991	13C4 PFOS	115		25-150
STL01056	13C8 FOSA	109		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_004.d
Lims ID: 320-34256-A-1-A
Client ID: NS-LDP-01-GW
Sample Type: Client
Inject. Date: 15-Dec-2017 20:41:44 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-34256-a-1-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 21-Dec-2017 09:29:11 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK042

First Level Reviewer: hannigana Date: 21-Dec-2017 09:29:11

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.412	1.406	0.006	0.538	6635408	2.31		92.4	14059	M
2 Perfluorobutyric acid										M
212.90 > 169.00	1.412	1.408	0.004	1.000	759587	0.3174			130	M
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.650	1.656	-0.006	0.995	84908	0.0349			28.7	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.659	1.656	0.003	0.632	5464747	3.23		129	49602	
D 47 13C3-PFBS										
301.90 > 83.00	1.694	1.690	0.004	0.645	99414	2.74		118	2142	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.694	1.692	0.002	1.000	653424	0.2084			754	
298.90 > 99.00	1.694	1.692	0.002	1.000	273630		2.39(1.25-3.74)		766	
D 60 M2-4:2FTS										
329.00 > 81.00	1.898	1.918	-0.020	0.723	1778	0.009307		0.0	33.4	
D 7 13C2 PFHxA										
315.00 > 270.00	1.939	1.938	0.001	0.738	5064213	2.86		115	38450	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.929	1.939	-0.010	0.995	67907	0.0340			54.4	M
313.00 > 119.00	1.949	1.939	0.010	1.005	4877		13.92(5.03-15.10)		56.9	M
D 9 13C4-PFHpA										
367.00 > 322.00	2.260	2.272	-0.012	0.861	5012700	3.02		121	37276	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.260	2.273	-0.013	1.000	49205	0.0237			48.7	
363.00 > 169.00	2.247	2.273	-0.026	0.994	19316		2.55(1.13-3.40)		104	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.273	2.285	-0.012	0.994	149302	0.0559			143	
399.00 > 99.00	2.273	2.285	-0.012	0.994	43487		3.43(1.50-4.49)		105	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.286	2.286	0.0	0.871	5721659	2.77		117	48786	
D 12 M2-6:2FTS										
429.00 > 81.00	2.604	2.625	-0.021	0.992	959261	1.06		44.8	7099	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.604	2.625	-0.021	1.000	8545	0.0134			195	
D 14 13C4 PFOA										
417.00 > 372.00	2.626	2.637	-0.011	1.000	5549245	2.77		111	56841	
* 62 13C2-PFOA										
415.00 > 370.00	2.626	2.638	-0.012		4910046	2.50			40886	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.541	2.640	-0.099	0.968	221988	0.0941			131	M
413.00 > 169.00	2.534	2.640	-0.106	0.965	153025		1.45(0.84-2.52)		556	M
D 18 13C4 PFOS										
503.00 > 80.00	3.005	3.014	-0.009	1.144	3592137	2.76		115	26277	
D 19 13C5 PFNA										
468.00 > 423.00	3.005	3.015	-0.010	1.144	3925438	2.96		118	41115	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	2.876	3.015	-0.139	0.957	41317	0.0259			51.1	
499.00 > 99.00	2.876	3.015	-0.139	0.957	3858		10.71(2.31-6.93)		13.9	M
D 21 13C8 FOSA										
506.00 > 78.00	3.358	3.354	0.004	1.279	5069989	2.72		109	27886	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.358	3.356	0.002	1.000	10965	0.005714			320	
D 26 M2-8:2FTS										
529.00 > 81.00	3.358	3.368	-0.010	1.279	943160	3.15		132	17368	
D 23 13C2 PFDA										
515.00 > 470.00	3.365	3.379	-0.014	1.282	3198021	2.96		118	32698	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.525	3.535	-0.010	1.343	1512886	2.93		117	20960	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.525	3.538	-0.013	1.000	1862	0.002947			20.4	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.690	3.704	-0.014	1.406	1594646	3.10		124	7676	
D 30 13C2 PFUnA										
565.00 > 520.00	3.699	3.709	-0.010	1.409	2289281	2.78		111	30626	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.699	3.711	-0.012	1.000	4669	0.005619			31.3	
563.00 > 169.00	3.699	3.711	-0.012	1.000	1082		4.32(0.00-0.00)		74.2	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.856	3.850	0.006	1.469	1275101	2.33		93.2	2966	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.008	-0.009	1.523	2340089	2.66		106	33399	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.046	4.039	0.007	1.541	1130572	2.23		89.3	2682	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.519	-0.018	1.714	3157255	3.31		132	27433	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.923	4.935	-0.012	1.002	47900	0.005063			32.8	
813.00 > 169.00	4.923	4.935	-0.012	1.002	8337		5.75(2.86-8.58)		276	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.914	4.935	-0.021	1.871	4819833	2.76		110	15659	

QC Flag Legend

Review Flags

M - Manually Integrated

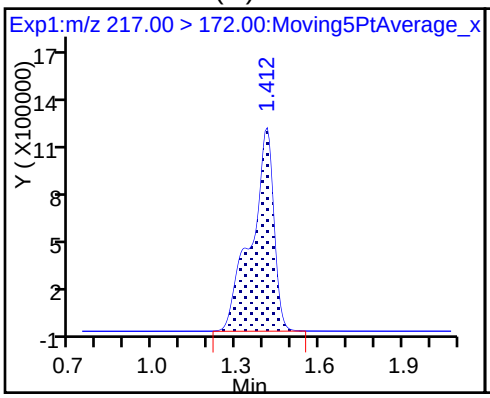
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TestAmerica Sacramento

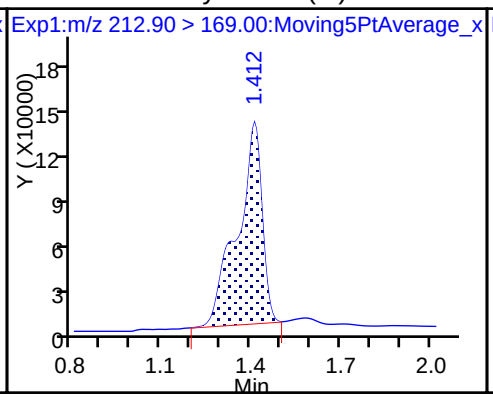
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Injection Date:	15-Dec-2017 20:41:44	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-A	Lab Sample ID:	320-34256-1		
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		

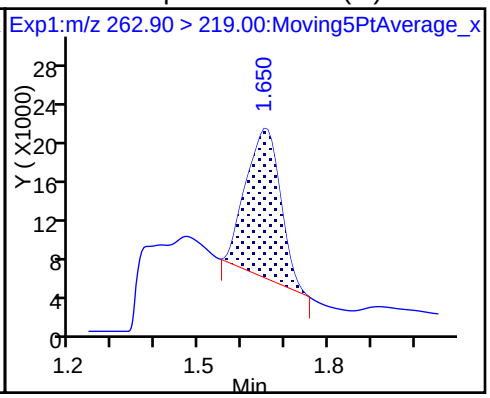
D 1 13C4 PFBA (M)



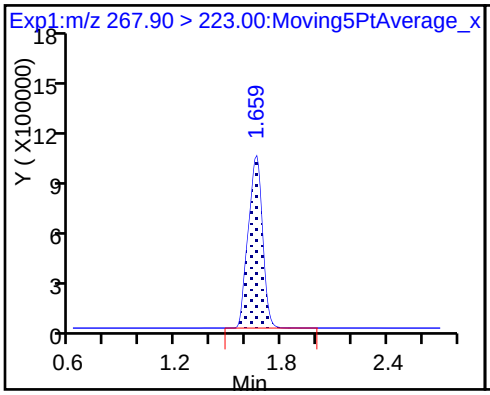
2 Perfluorobutyric acid (M)



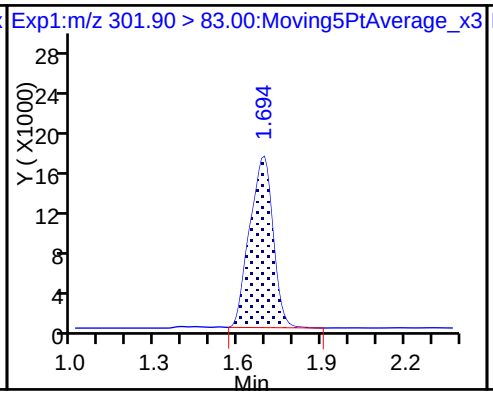
4 Perfluoropentanoic acid (M)



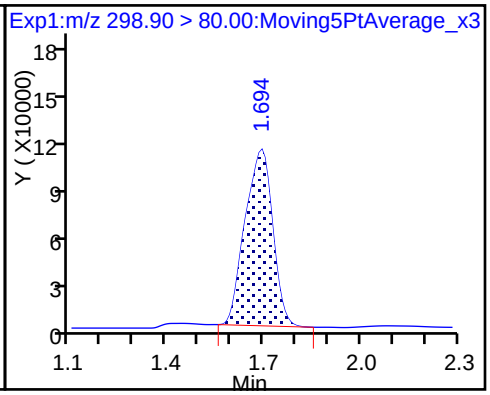
D 3 13C5-PFPeA



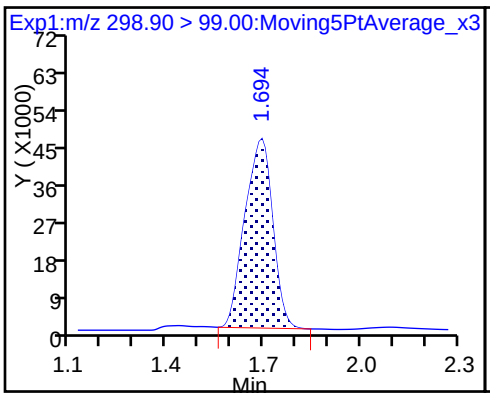
D 47 13C3-PFBS



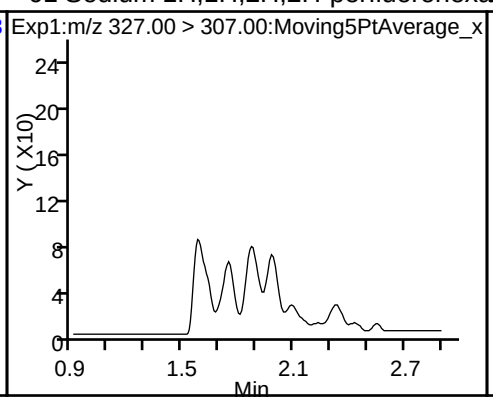
5 Perfluorobutanesulfonic acid



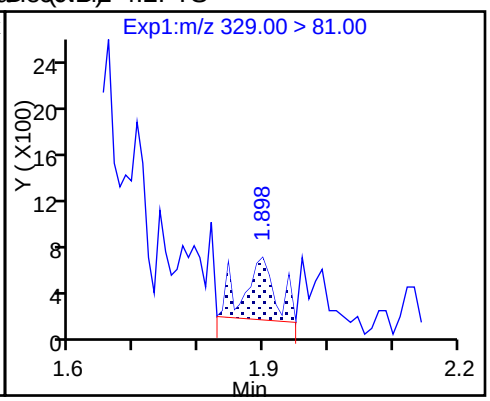
5 Perfluorobutanesulfonic acid



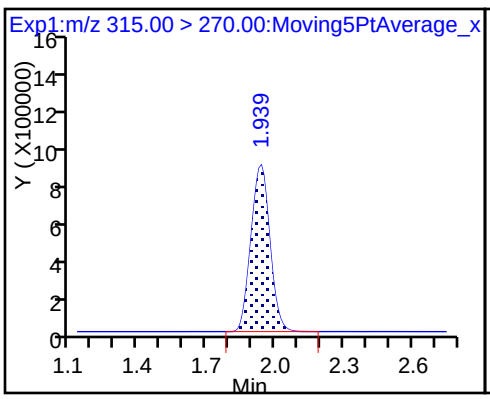
61 Sodium 1H,1H,2H,2H-perfluorohexane (NM)



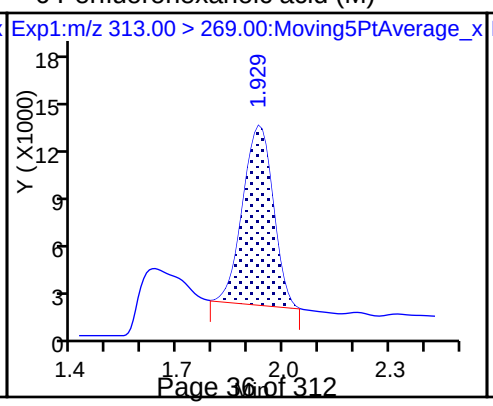
D 6 NM2-4:2FTS



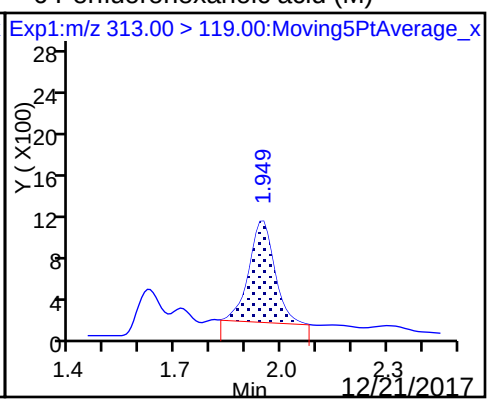
D 7 13C2 PFHxA



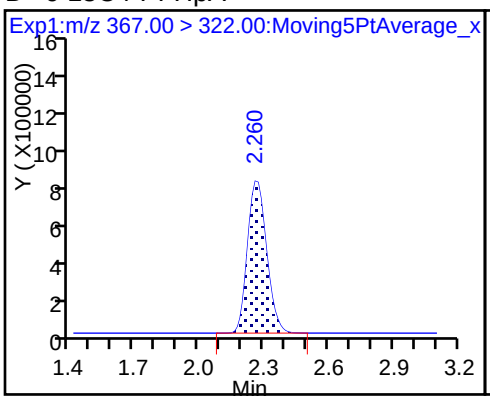
6 Perfluorohexanoic acid (M)



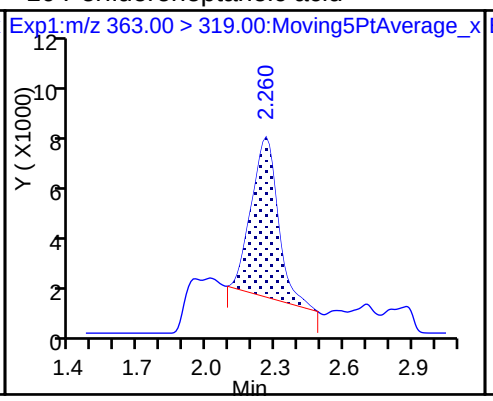
6 Perfluorohexanoic acid (M)



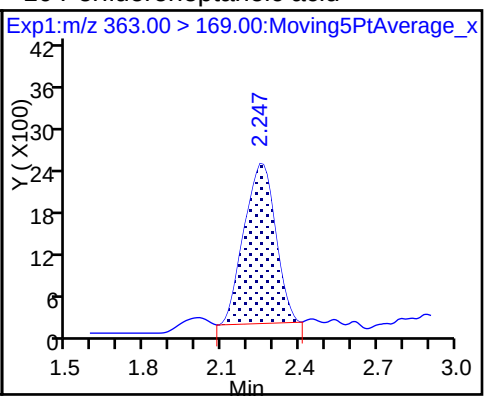
D 9 13C4-PFHpA



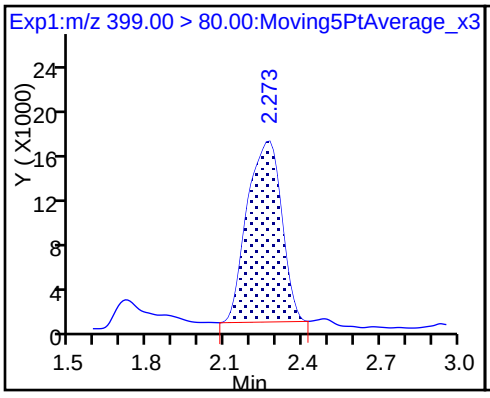
10 Perfluoroheptanoic acid



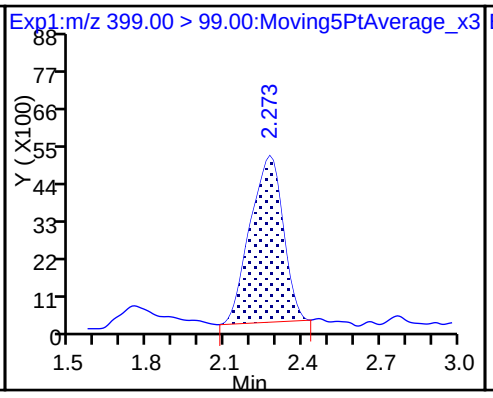
10 Perfluoroheptanoic acid



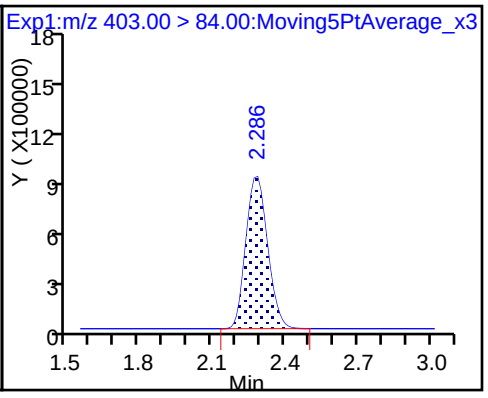
8 Perfluorohexanesulfonic acid



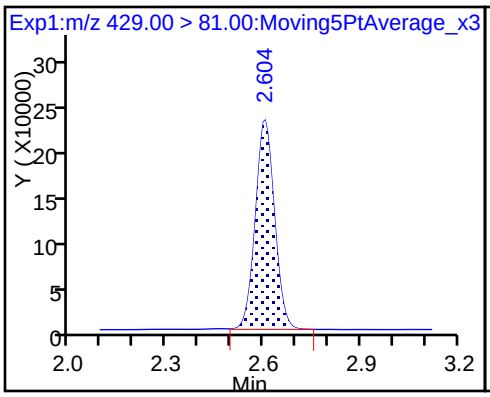
8 Perfluorohexanesulfonic acid



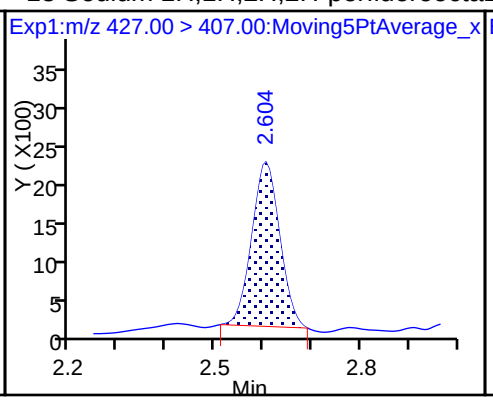
D 11 18O2 PFHxS



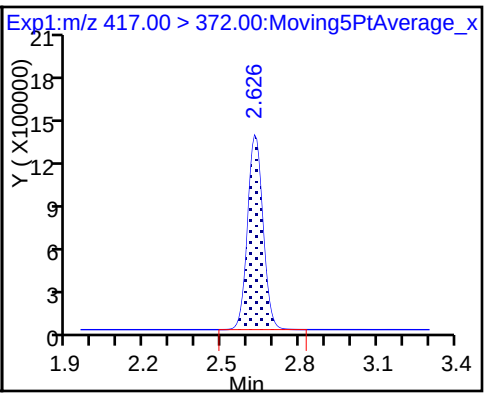
D 12 M2-6:2FTS



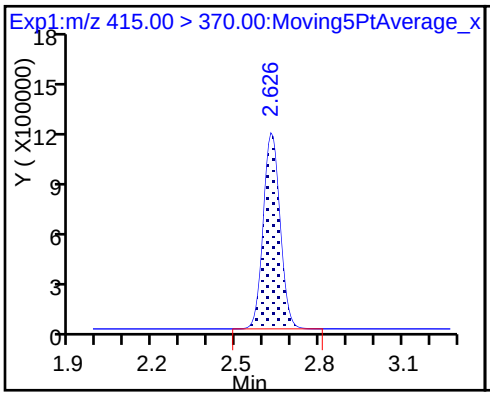
13 Sodium 1H,1H,2H,2H-perfluorooctane



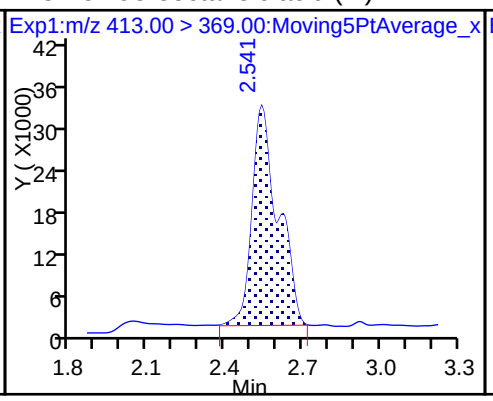
D 14 13C4 PFOA



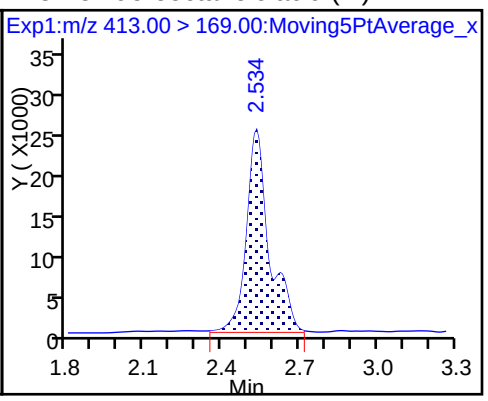
* 62 13C2-PFOA



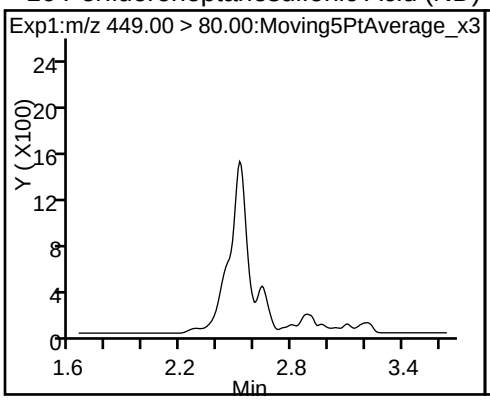
15 Perfluorooctanoic acid (M)



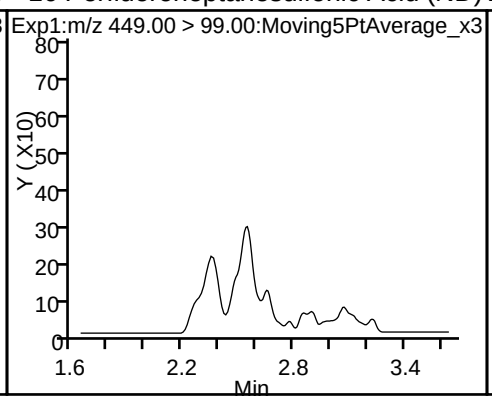
15 Perfluorooctanoic acid (M)



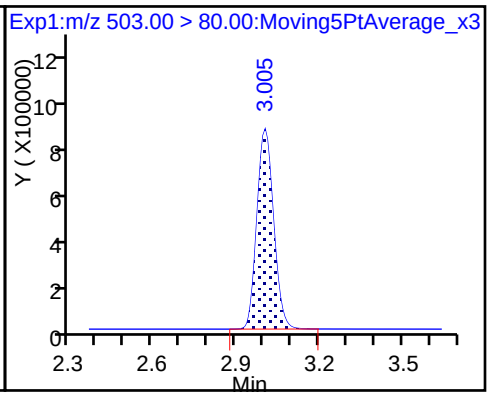
16 Perfluoroheptanesulfonic Acid (ND)



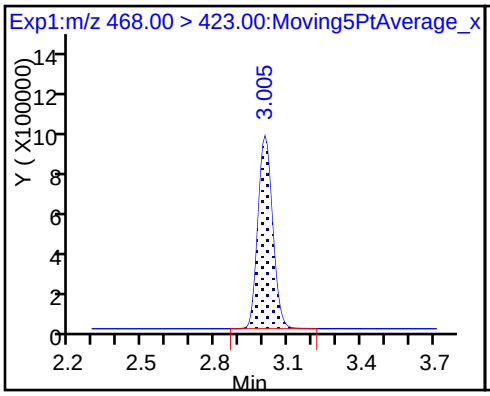
16 Perfluoroheptanesulfonic Acid (ND)



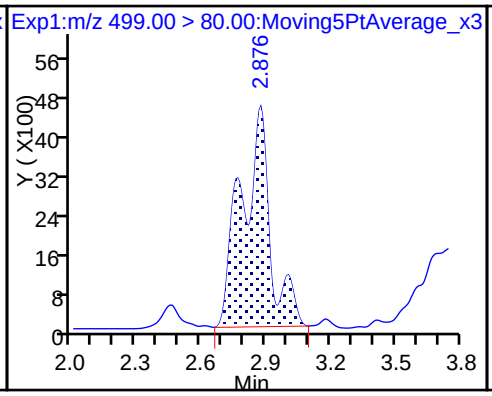
D 18 13C4 PFOS



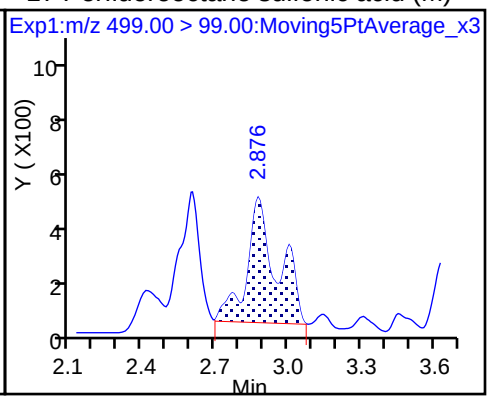
D 19 13C5 PFNA



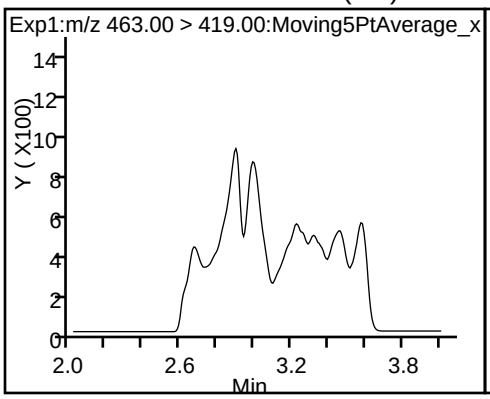
17 Perfluorooctane sulfonic acid



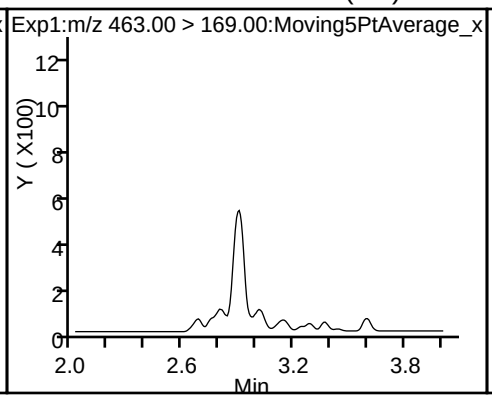
17 Perfluorooctane sulfonic acid (M)



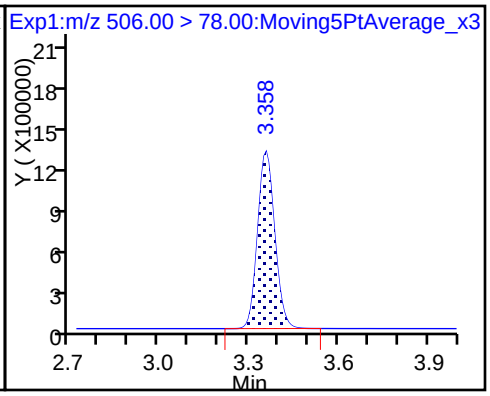
20 Perfluorononanoic acid (ND)



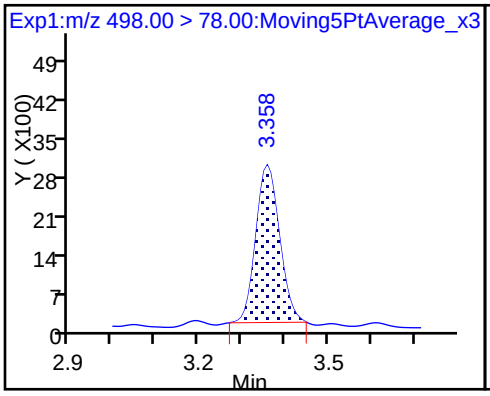
20 Perfluorononanoic acid (ND)



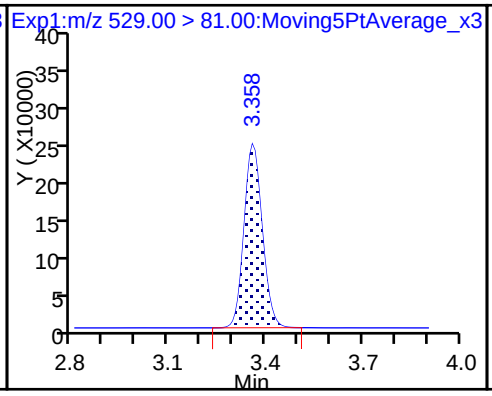
D 21 13C8 FOSA



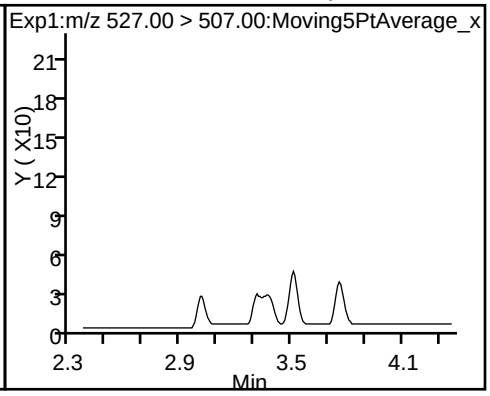
22 Perfluorooctane Sulfonamide



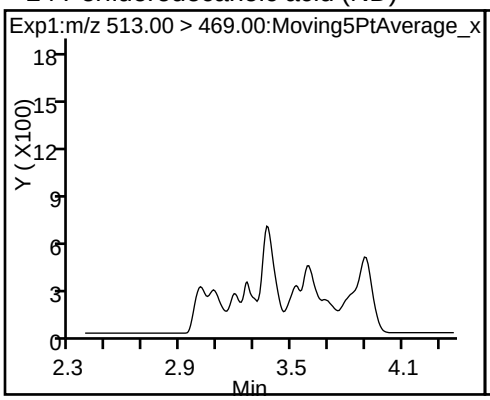
D 26 M2-8:2FTS



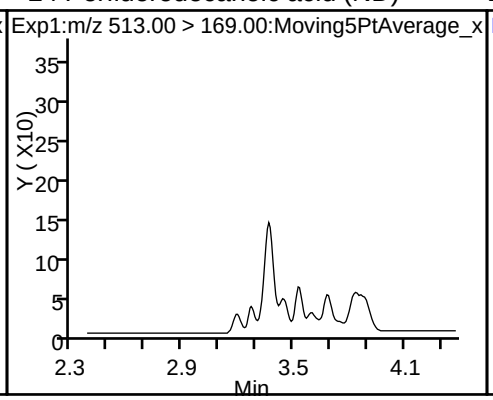
25 Sodium 1H,1H,2H,2H-perfluorodecane (ND)



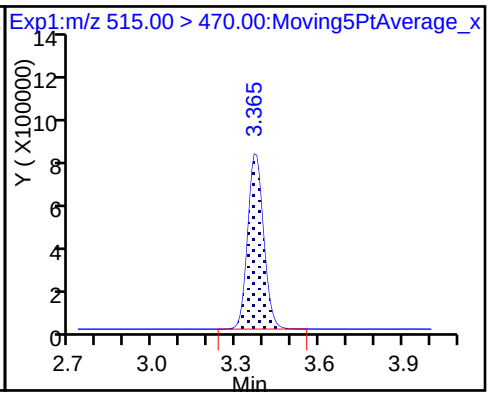
24 Perfluorodecanoic acid (ND)



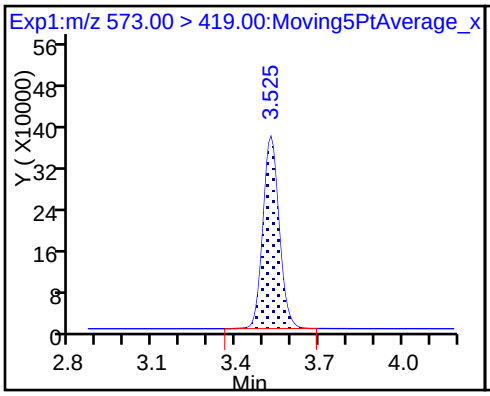
24 Perfluorodecanoic acid (ND)



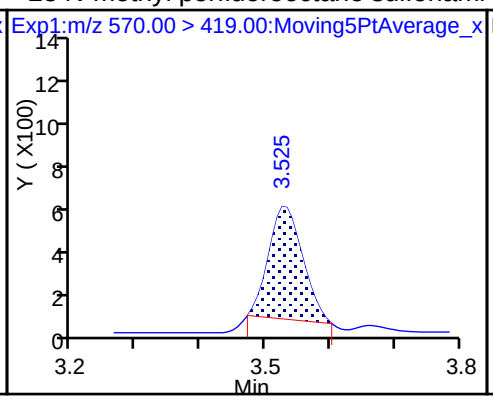
D 23 13C2 PFDA



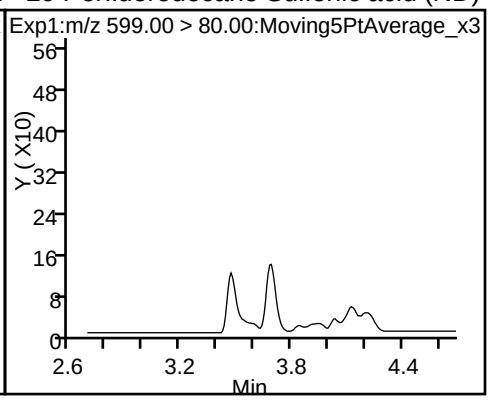
D 27 d3-NMeFOSAA



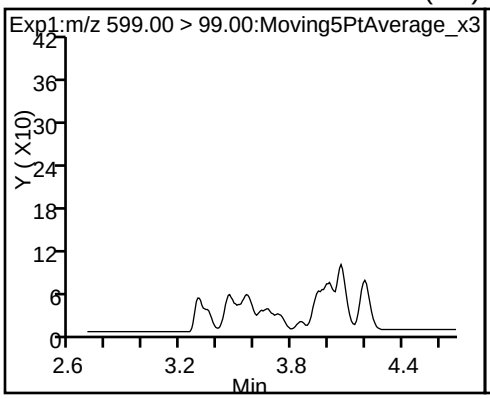
28 N-methyl perfluorooctane sulfonami



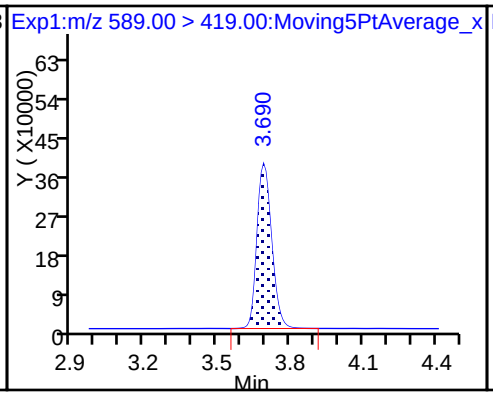
29 Perfluorodecane Sulfonic acid (ND)



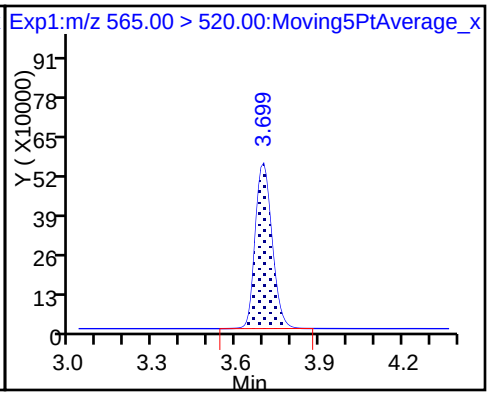
29 Perfluorodecane Sulfonic acid (ND)



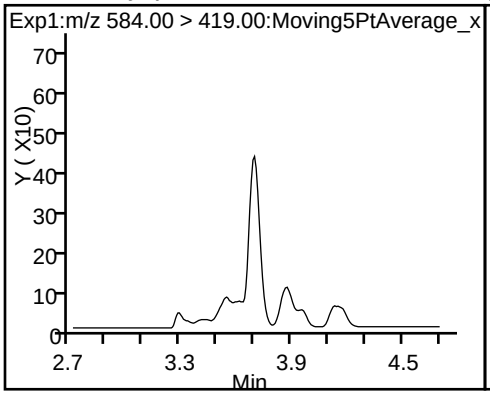
D 32 d5-NEtFOSAA



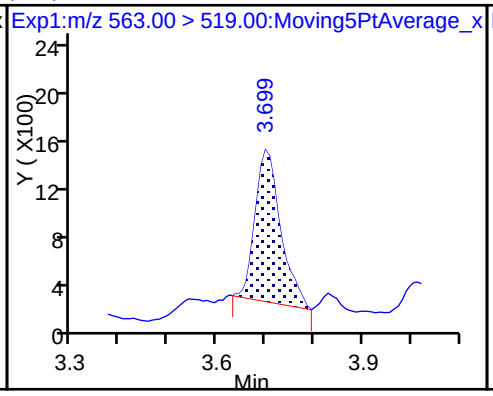
D 30 13C2 PFUnA



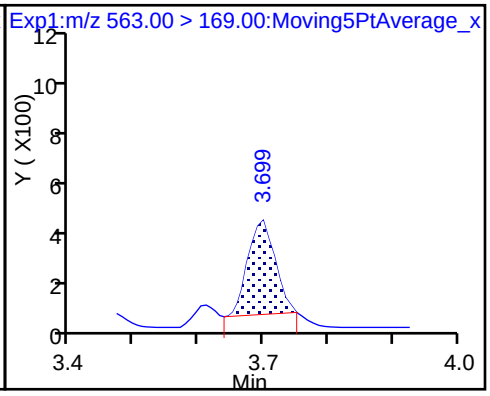
33 N-ethyl perfluorooctane sulfonamid (N



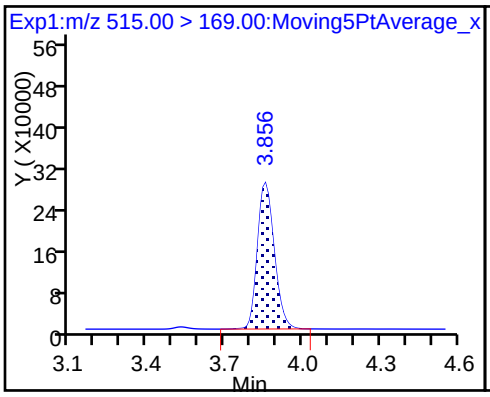
31 Perfluoroundecanoic acid



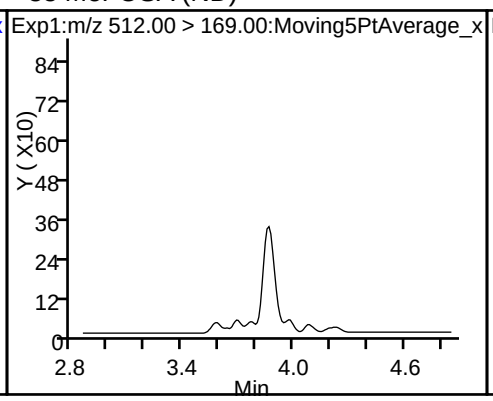
31 Perfluoroundecanoic acid



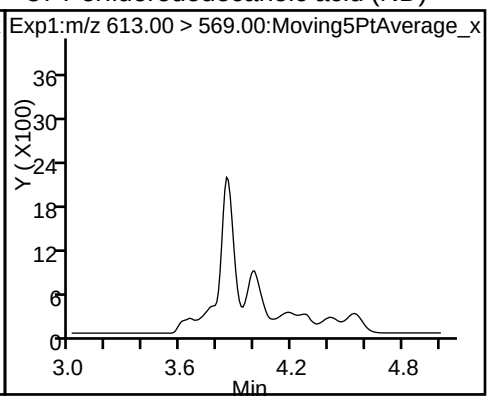
D 34 d-N-MeFOSA-M



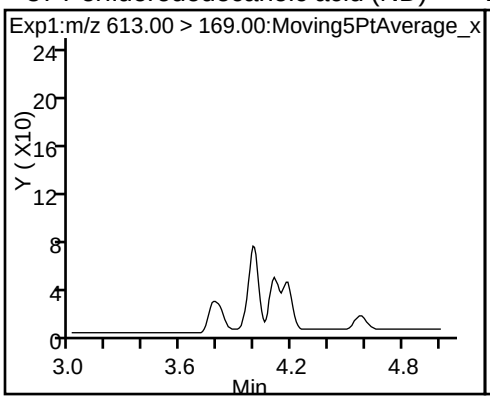
35 MeFOSA (ND)



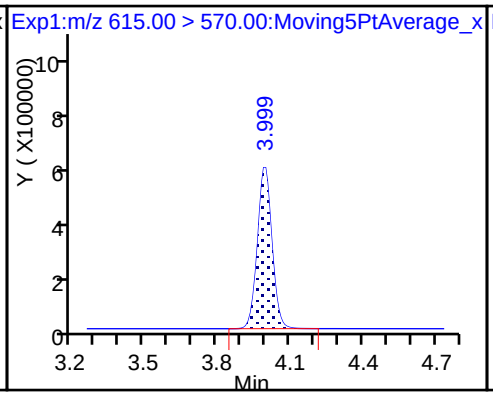
37 Perfluorododecanoic acid (ND)



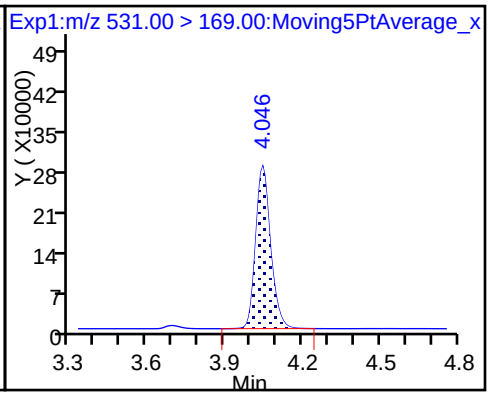
37 Perfluorododecanoic acid (ND)



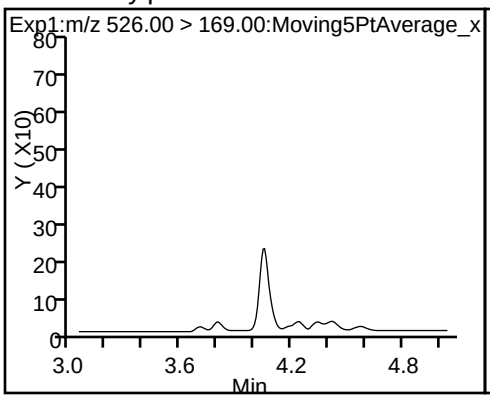
D 36 13C2 PFDoA



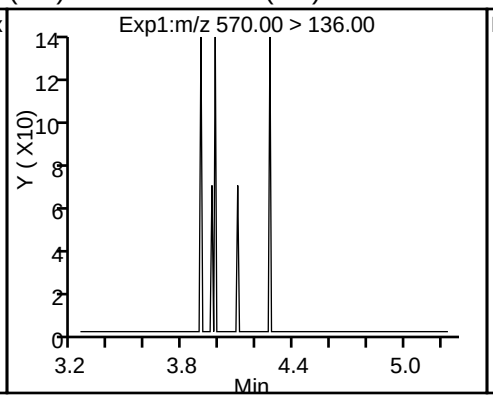
D 38 d-N-EtFOSA-M



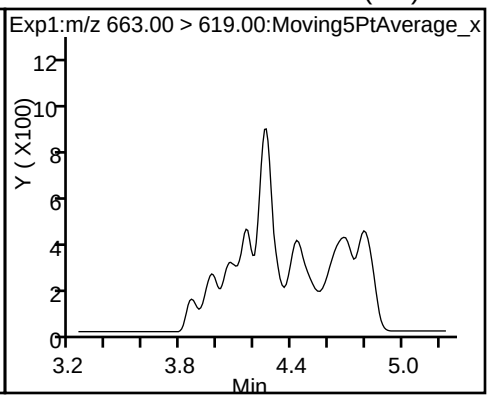
39 N-ethylperfluoro-1-octanesulfonami D (ND)



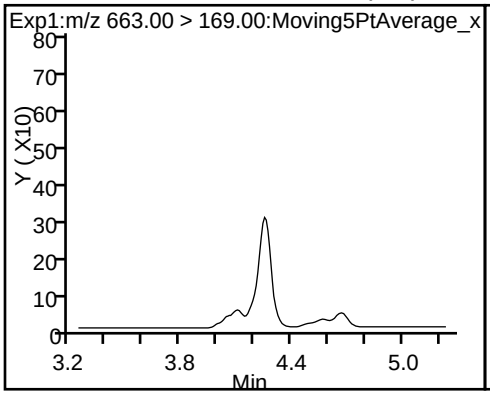
40 d-N-EtFOSE-M (ND)



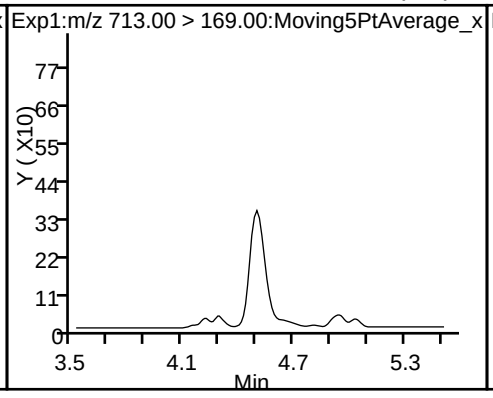
41 Perfluorotridecanoic acid (ND)



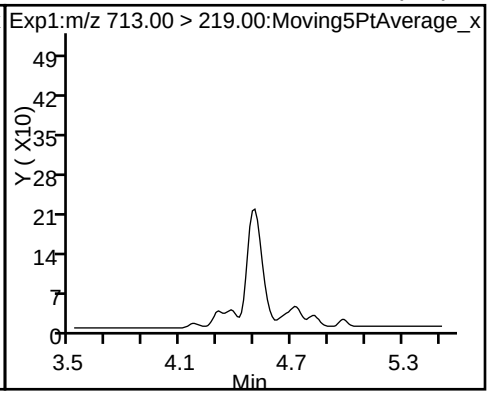
41 Perfluorotridecanoic acid (ND)



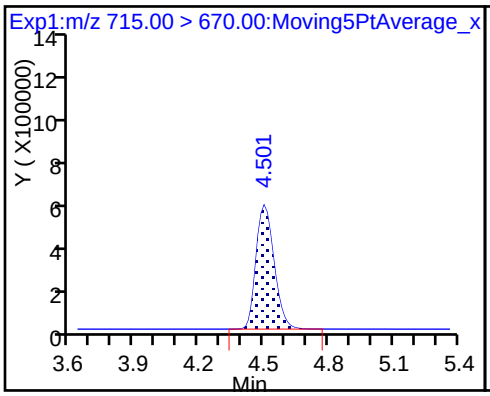
42 Perfluorotetradecanoic acid (ND)



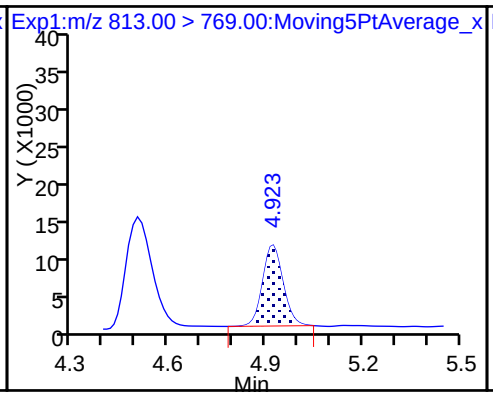
42 Perfluorotetradecanoic acid (ND)



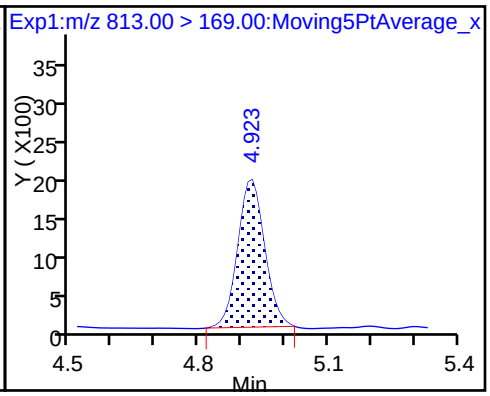
D 43 13C2-PFTeDA



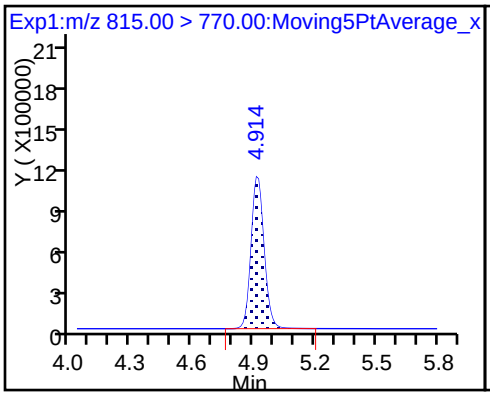
45 Perfluorohexadecanoic acid



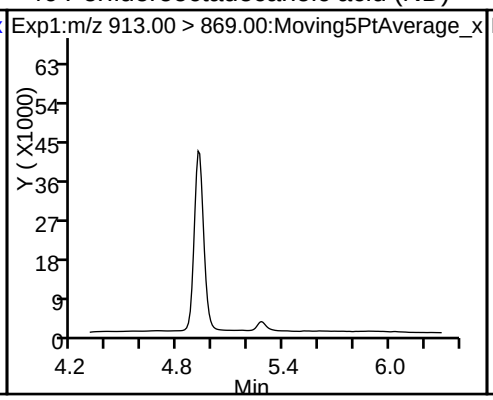
45 Perfluorohexadecanoic acid



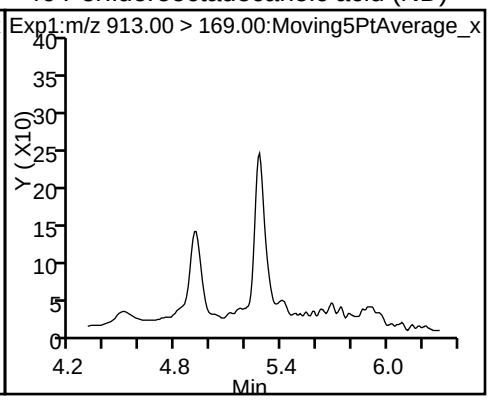
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid (ND)



46 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

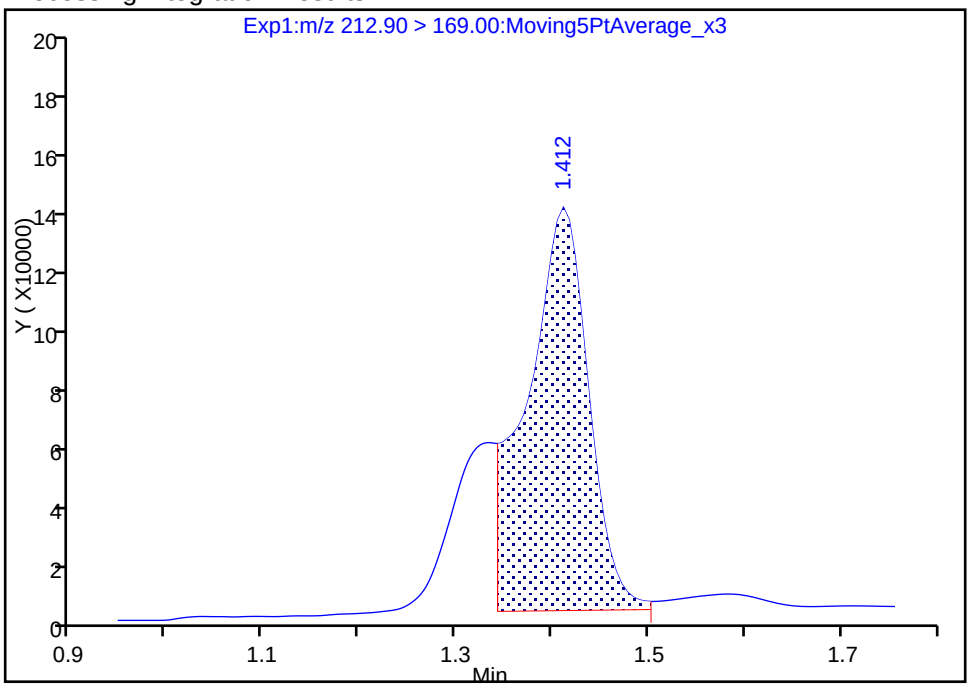
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Injection Date:	15-Dec-2017 20:41:44	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-A	Lab Sample ID:	320-34256-1		
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

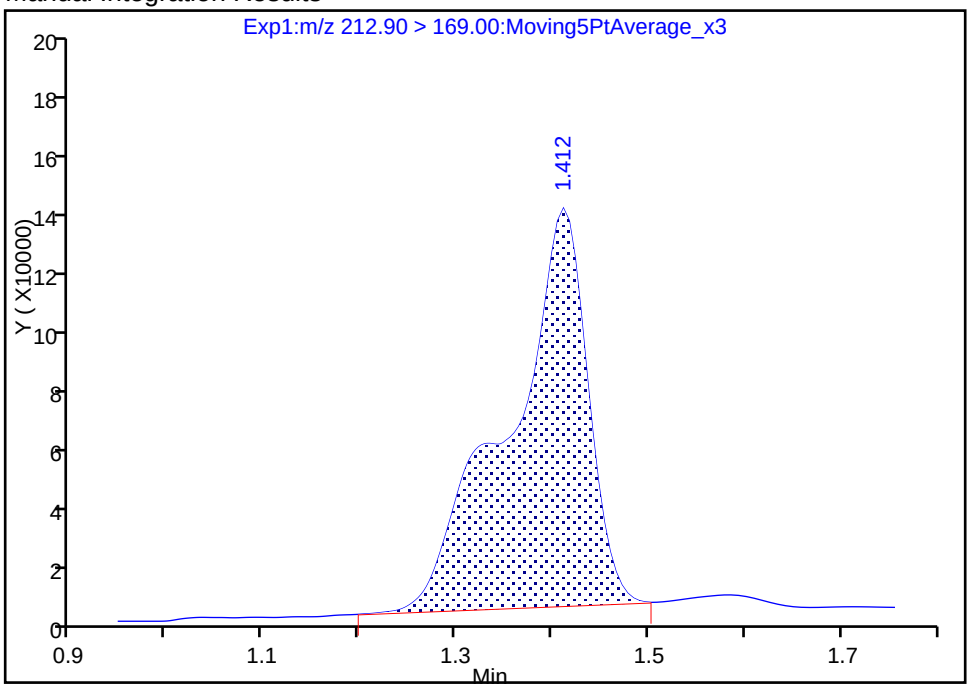
Processing Integration Results

RT: 1.41
Area: 595789
Amount: 0.248947
Amount Units: ng/ml



Manual Integration Results

RT: 1.41
Area: 759587
Amount: 0.317389
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:41:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Sacramento

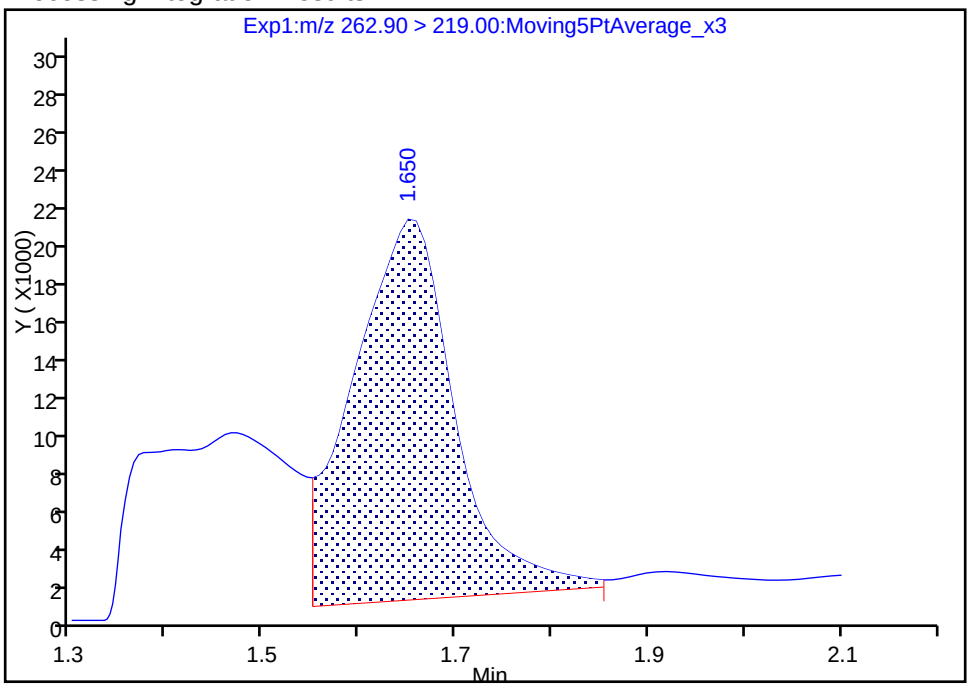
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Injection Date:	15-Dec-2017 20:41:44	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-A	Lab Sample ID:	320-34256-1		
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

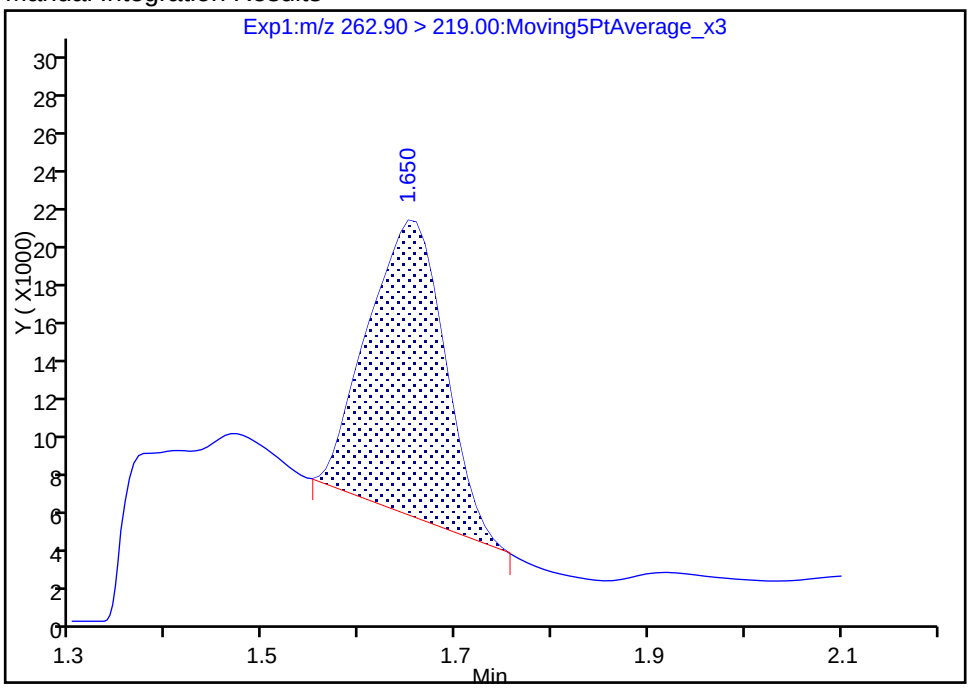
Processing Integration Results

RT: 1.65
Area: 145090
Amount: 0.059671
Amount Units: ng/ml



Manual Integration Results

RT: 1.65
Area: 84908
Amount: 0.034920
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:41:32
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

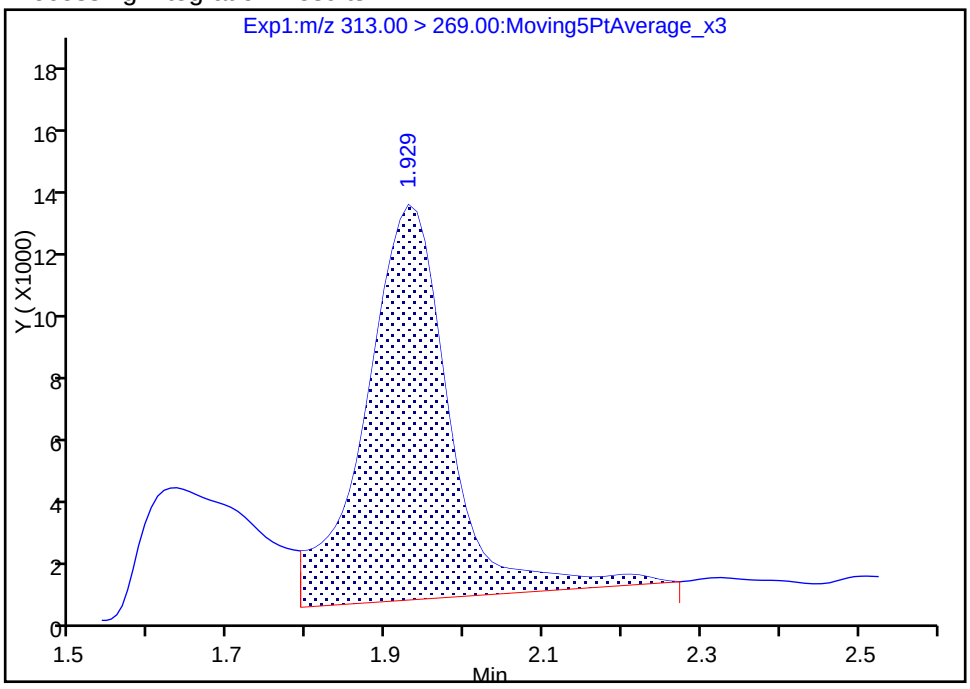
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_004.d				
Injection Date:	15-Dec-2017 20:41:44	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-A	Lab Sample ID:	320-34256-1		
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

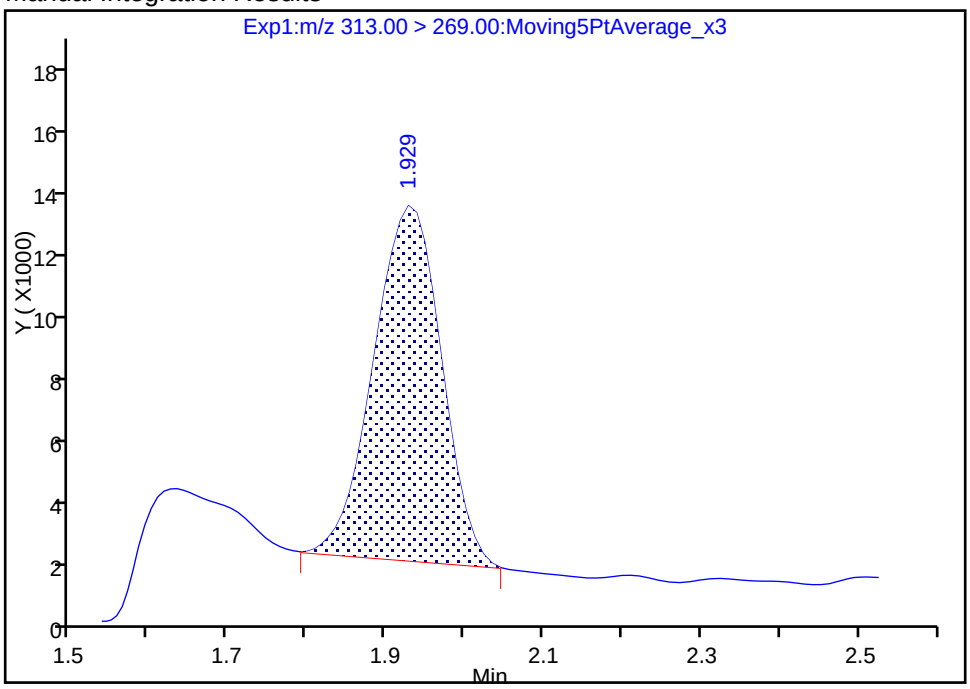
Processing Integration Results

RT: 1.93
Area: 93403
Amount: 0.046753
Amount Units: ng/ml



Manual Integration Results

RT: 1.93
Area: 67907
Amount: 0.033991
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:41:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_004.d

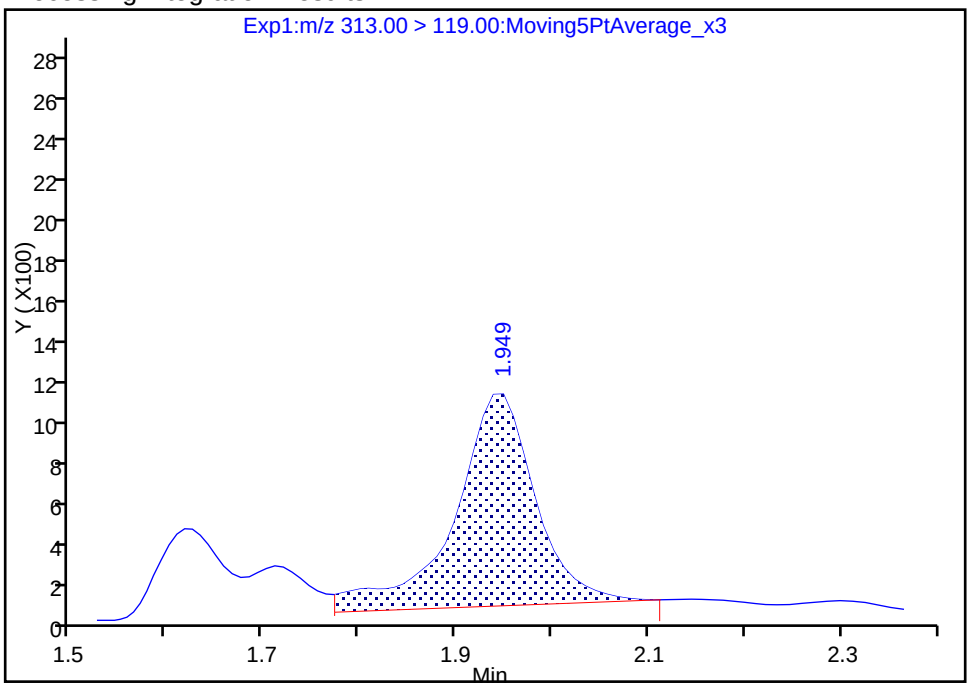
Injection Date:	15-Dec-2017 20:41:44	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-A	Lab Sample ID:	320-34256-1		
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

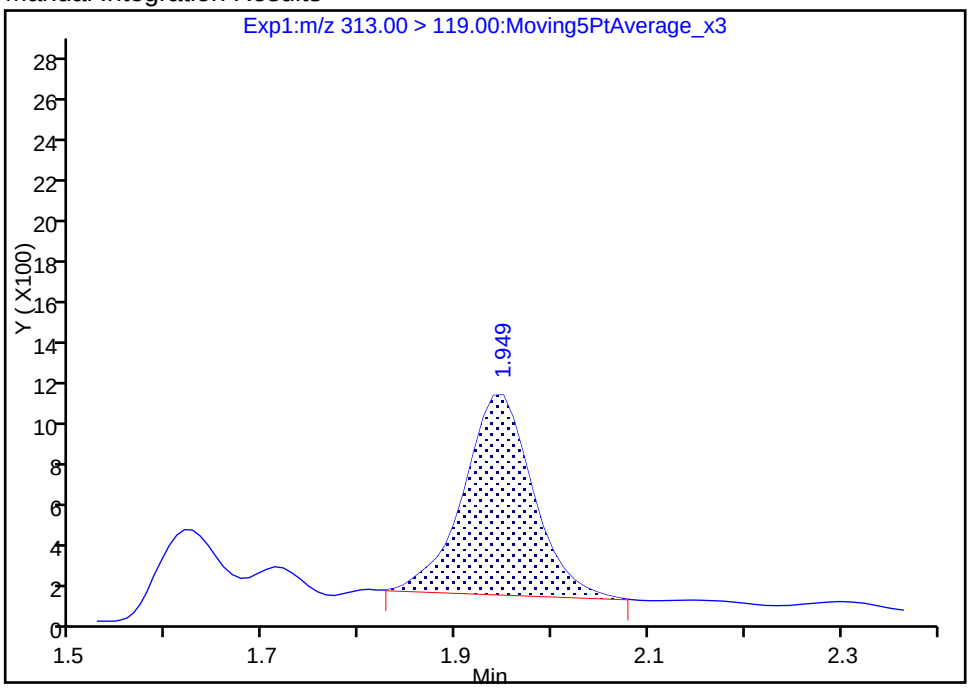
Processing Integration Results

RT: 1.95
Area: 6027
Amount: 0.046753
Amount Units: ng/ml



Manual Integration Results

RT: 1.95
Area: 4877
Amount: 0.033991
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:41:53

Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

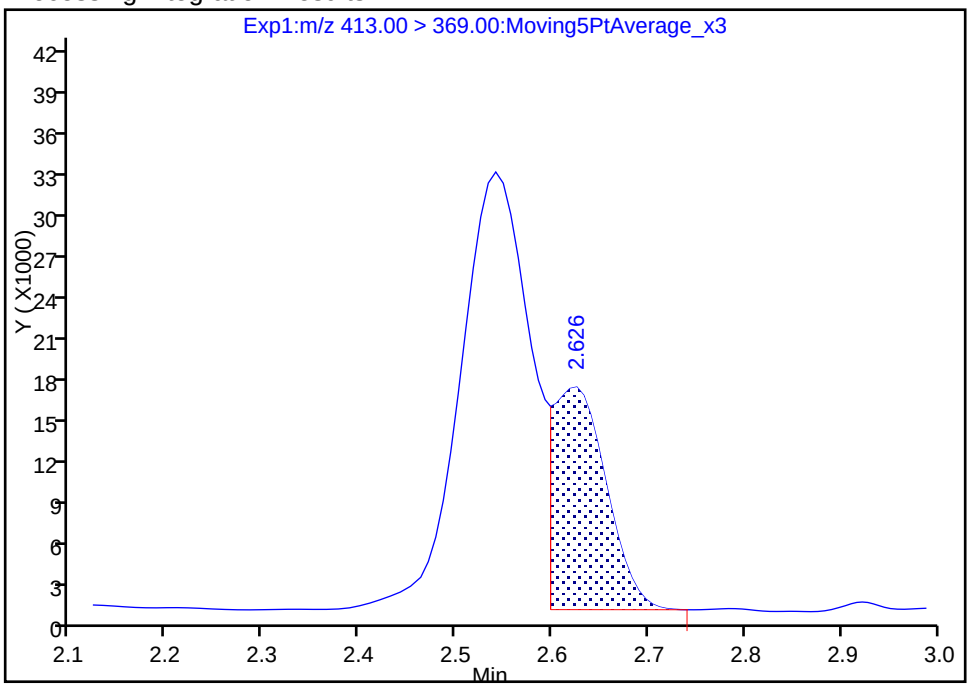
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_004.d				
Injection Date:	15-Dec-2017 20:41:44	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-A	Lab Sample ID:	320-34256-1		
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

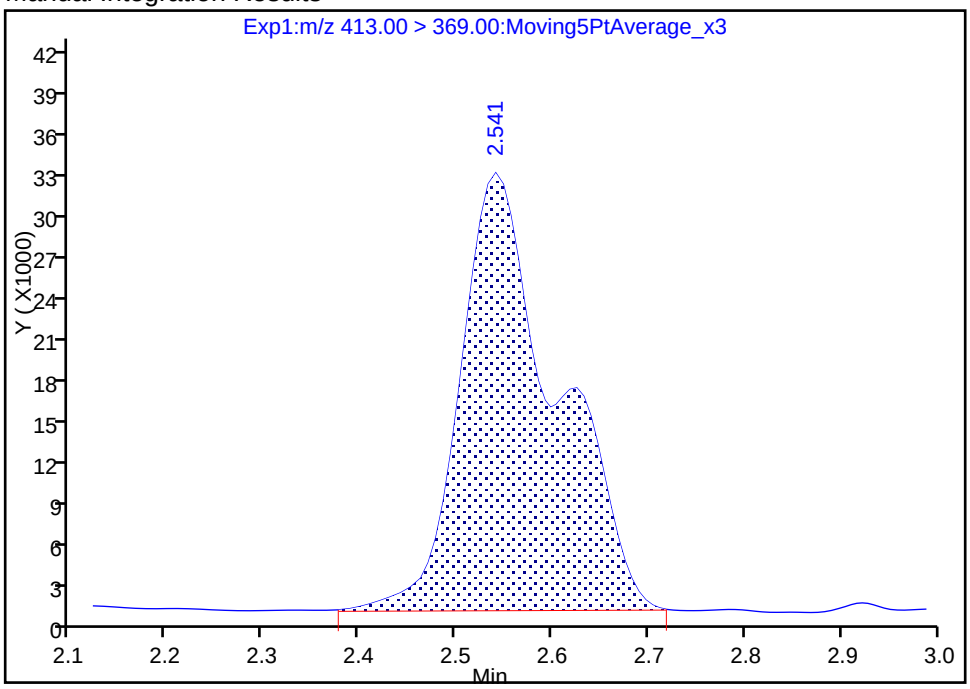
Processing Integration Results

RT: 2.63
Area: 60506
Amount: 0.025639
Amount Units: ng/ml



Manual Integration Results

RT: 2.54
Area: 221988
Amount: 0.094066
Amount Units: ng/ml



Reviewer: hannigana, 21-Dec-2017 09:28:53
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_004.d

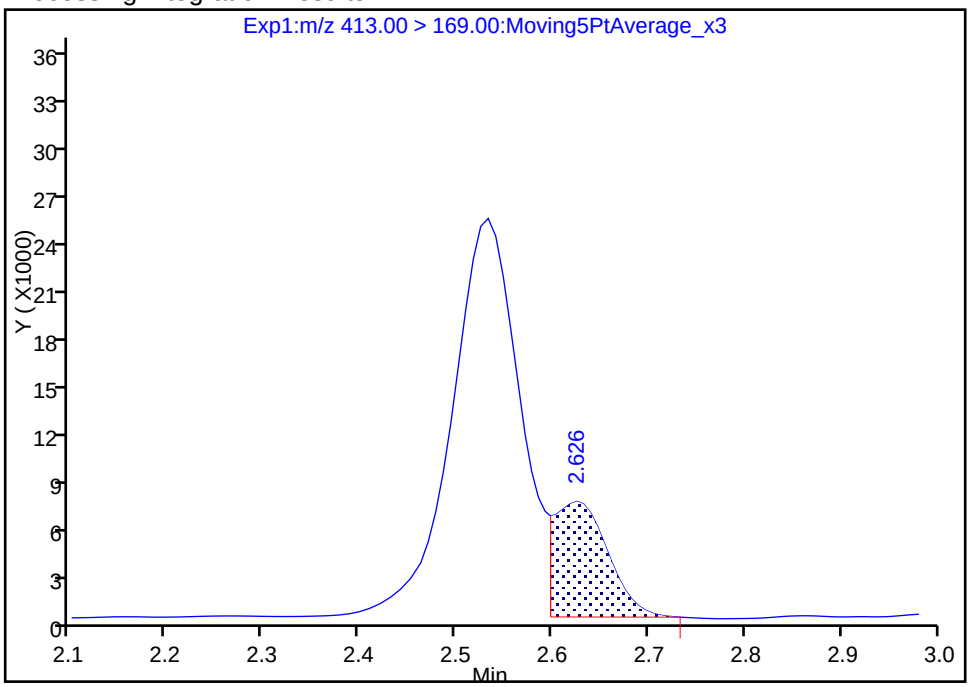
Injection Date:	15-Dec-2017 20:41:44	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-A	Lab Sample ID:	320-34256-1		
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

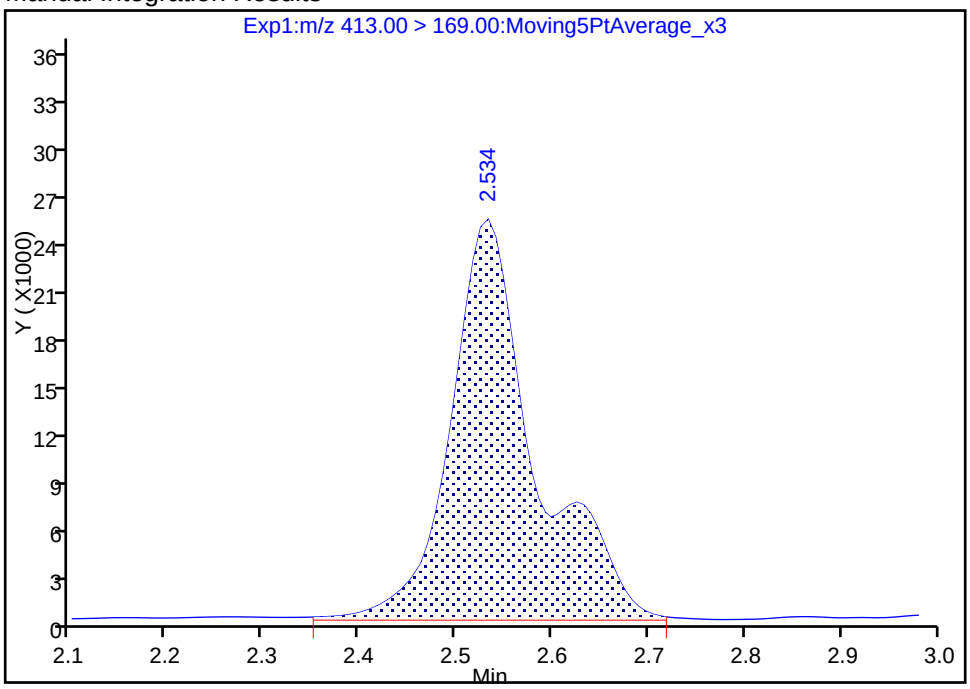
Processing Integration Results

RT: 2.63
Area: 27305
Amount: 0.025639
Amount Units: ng/ml



Manual Integration Results

RT: 2.53
Area: 153025
Amount: 0.094066
Amount Units: ng/ml



Reviewer: hannigana, 21-Dec-2017 09:28:57

Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

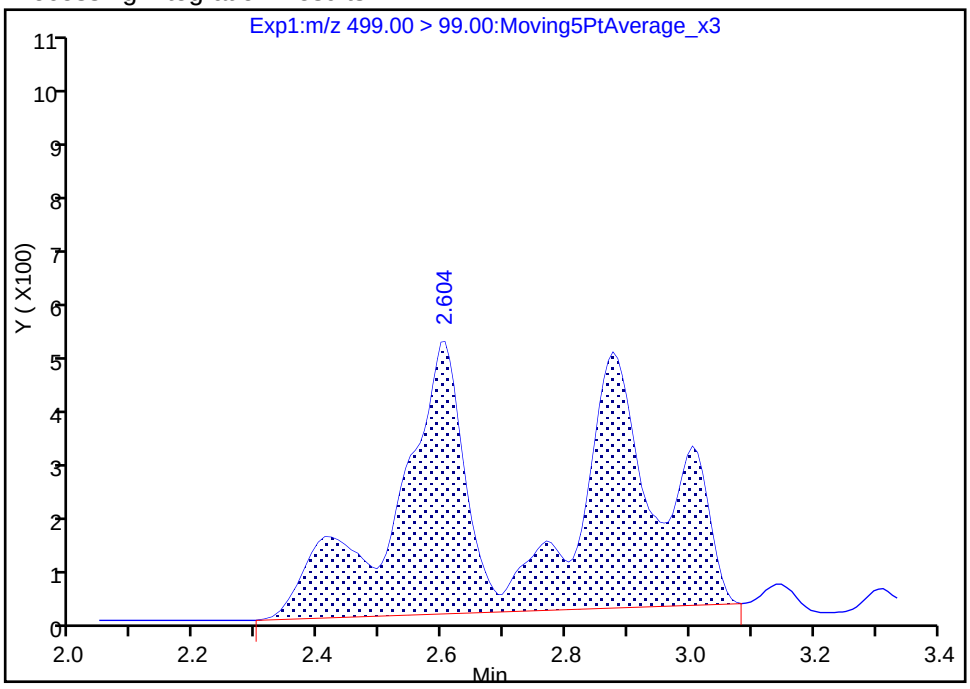
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_004.d				
Injection Date:	15-Dec-2017 20:41:44	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-A	Lab Sample ID:	320-34256-1		
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 2

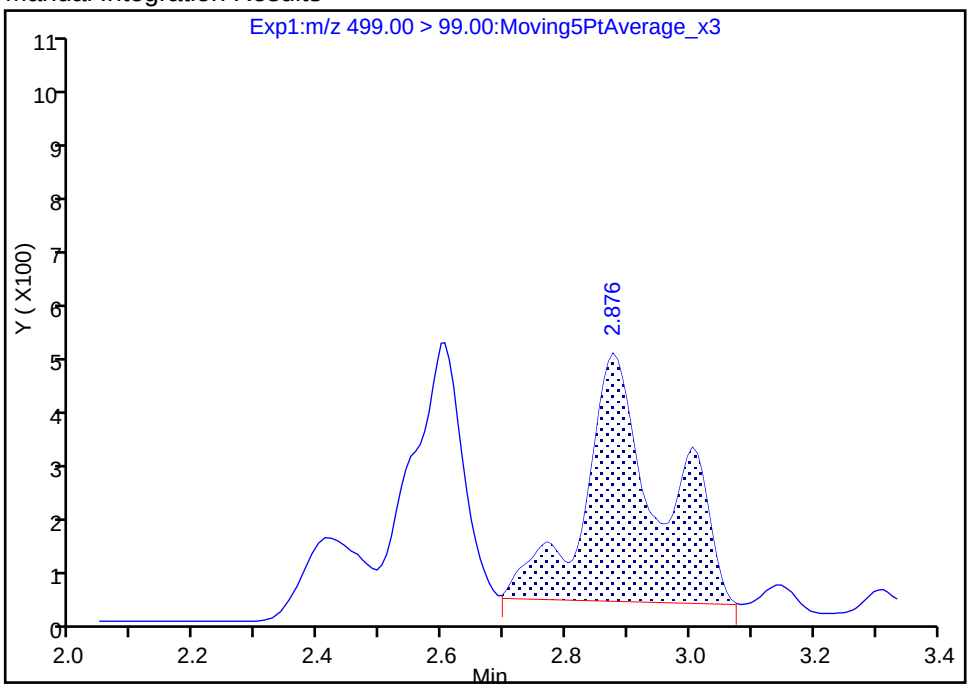
Processing Integration Results

RT: 2.60
Area: 8027
Amount: 0.025864
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 3858
Amount: 0.025864
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:42:39

Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

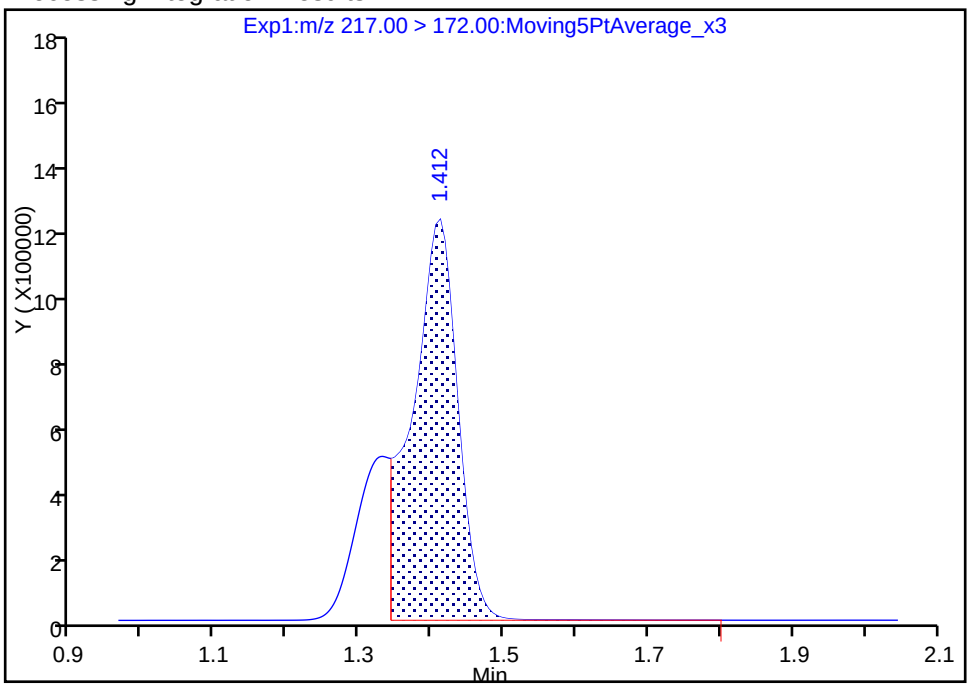
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_004.d				
Injection Date:	15-Dec-2017 20:41:44	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-A	Lab Sample ID:	320-34256-1		
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

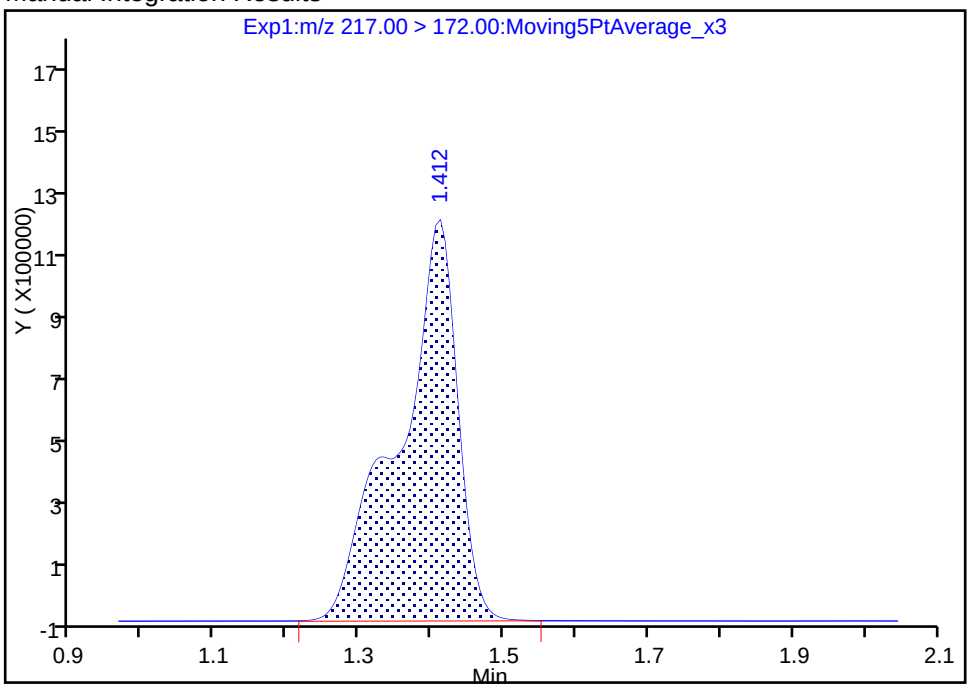
Processing Integration Results

RT: 1.41
Area: 5088704
Amount: 1.771181
Amount Units: ng/ml



Manual Integration Results

RT: 1.41
Area: 6635408
Amount: 2.309529
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:40:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-LDP-02-GW | Lab Sample ID: 320-34256-2

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_007.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 09:45

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 242.7(mL) | Date Analyzed: 12/15/2017 21:05

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	13		2.1	0.36
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.3		2.1	0.50
307-24-4	Perfluorohexanoic acid (PFHxA)	1.0	J	2.1	0.60
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.66	J	2.1	0.26
335-67-1	Perfluorooctanoic acid (PFOA)	4.2		2.1	0.88
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.1	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.1	0.32
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.1	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.1	0.57
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.1	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.1	0.30
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.9		2.1	0.21
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.6	B	2.1	0.18
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.1	0.20
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.6		2.1	0.56
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.1	0.33
754-91-6	Perfluorooctane Sulfonamide (FOSA)	0.42	J	2.1	0.36

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-LDP-02-GW | Lab Sample ID: 320-34256-2

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_007.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 09:45

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 242.7(mL) | Date Analyzed: 12/15/2017 21:05

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	92		25-150
STL01893	13C5 PFPeA	125		25-150
STL00993	13C2 PFHxA	120		25-150
STL01892	13C4-PFHpA	114		25-150
STL00990	13C4 PFOA	104		25-150
STL00995	13C5 PFNA	117		25-150
STL00996	13C2 PFDA	125		25-150
STL00997	13C2 PFUnA	109		25-150
STL00998	13C2 PFDoA	107		25-150
STL02116	13C2-PFTeDA	134		25-150
STL02337	13C3-PFBS	112		25-150
STL00994	18O2 PFHxS	118		25-150
STL00991	13C4 PFOS	117		25-150
STL01056	13C8 FOSA	109		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_007.d
Lims ID: 320-34256-A-2-A
Client ID: NS-LDP-02-GW
Sample Type: Client
Inject. Date: 15-Dec-2017 21:05:31 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-34256-a-2-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 20-Dec-2017 11:48:06 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK050

First Level Reviewer: hannigana Date: 20-Dec-2017 11:48:06

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.407	1.406	0.001	0.536	6819413	2.31		92.3	21795	
2 Perfluorobutyric acid										
212.90 > 169.00	1.407	1.408	-0.001	1.000	758625	0.3084			104	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.652	1.656	-0.004	1.000	137720	0.0567			54.3	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.652	1.656	-0.004	0.629	5458481	3.13		125	42910	
D 47 13C3-PFBS										
301.90 > 83.00	1.688	1.690	-0.002	0.642	97750	2.62		112	1923	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.688	1.692	-0.004	1.000	291204	0.0945			562	
298.90 > 99.00	1.688	1.692	-0.004	1.000	122928		2.37(1.25-3.74)		507	
D 7 13C2 PFHxA										
315.00 > 270.00	1.933	1.938	-0.005	0.735	5436052	2.99		120	47992	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.933	1.939	-0.006	1.000	51954	0.0242			40.7	M
313.00 > 119.00	1.943	1.939	0.004	1.005	3552		14.63(5.03-15.10)		60.5	M
D 9 13C4-PFHpA										
367.00 > 322.00	2.265	2.272	-0.007	0.862	4868248	2.85		114	35098	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	2.265	2.273	-0.008	1.000	32520	0.0161			30.6	M
363.00 > 169.00	2.265	2.273	-0.008	1.000	13540		2.40(1.13-3.40)		83.5	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.278	2.285	-0.007	1.000	240731	0.0869			396	
399.00 > 99.00	2.278	2.285	-0.007	1.000	72951		3.30(1.50-4.49)		297	
D 11 18O2 PFHxS										
403.00 > 84.00	2.278	2.286	-0.008	0.867	5931254	2.79		118	53527	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C4 PFOA										
417.00 > 372.00	2.628	2.637	-0.009	1.000	5384647	2.61		104	41969	
* 62 13C2-PFOA										
415.00 > 370.00	2.628	2.638	-0.010		5052188	2.50			51963	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.628	2.640	-0.012	1.000	234616	0.1025			114	M
413.00 > 169.00	2.537	2.640	-0.103	0.965	169751		1.38(0.84-2.52)		556	M
D 18 13C4 PFOS										
503.00 > 80.00	3.006	3.014	-0.008	1.144	3750545	2.80		117	33533	
D 19 13C5 PFNA										
468.00 > 423.00	3.006	3.015	-0.009	1.144	3996523	2.93		117	38094	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	2.878	3.015	-0.137	0.958	105358	0.0632			153	
499.00 > 99.00	2.886	3.015	-0.129	0.960	12354		8.53(2.31-6.93)		45.3	
D 21 13C8 FOSA										
506.00 > 78.00	3.360	3.354	0.006	1.278	5230749	2.72		109	22033	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.360	3.356	0.004	1.000	20266	0.0102			587	
D 23 13C2 PFDA										
515.00 > 470.00	3.367	3.379	-0.012	1.281	3482110	3.13		125	34800	
D 30 13C2 PFUnA										
565.00 > 520.00	3.694	3.709	-0.015	1.406	2314621	2.74		109	37196	
D 36 13C2 PFDoA										
615.00 > 570.00	3.993	4.008	-0.015	1.520	2423974	2.68		107	32843	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.504	4.519	-0.015	1.714	3289940	3.35		134	24706	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 20-Dec-2017 11:48:07 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_007.d

Injection Date: 15-Dec-2017 21:05:31 Instrument ID: A8_N

Lims ID: 320-34256-A-2-A Lab Sample ID: 320-34256-2

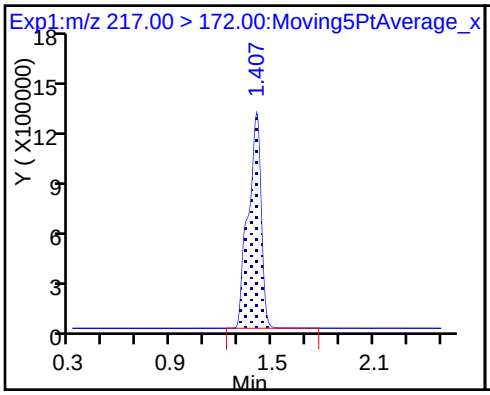
Client ID: NS-LDP-02-GW

Operator ID: SACINSTLCMS01 ALS Bottle#: 6 Worklist Smp#: 7

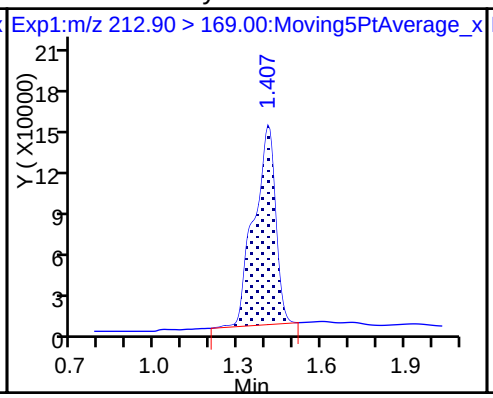
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

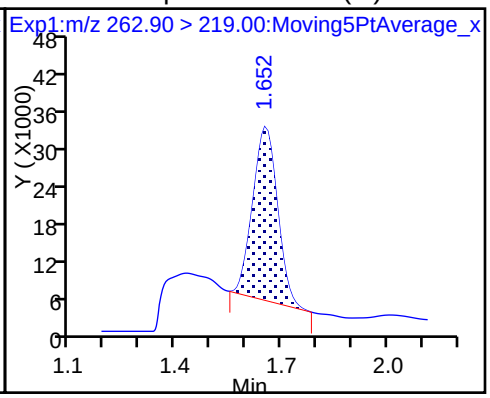
D 1 13C4 PFBA



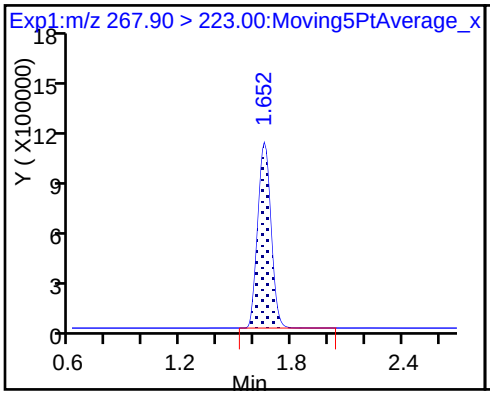
2 Perfluorobutyric acid



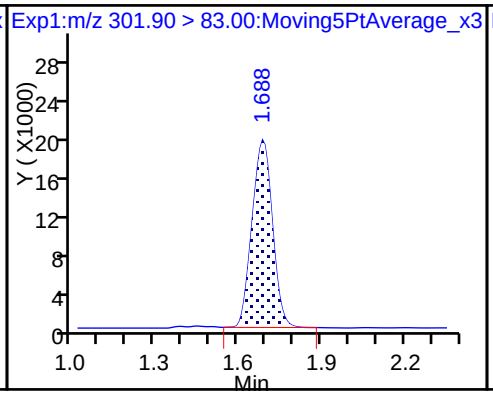
4 Perfluoropentanoic acid (M)



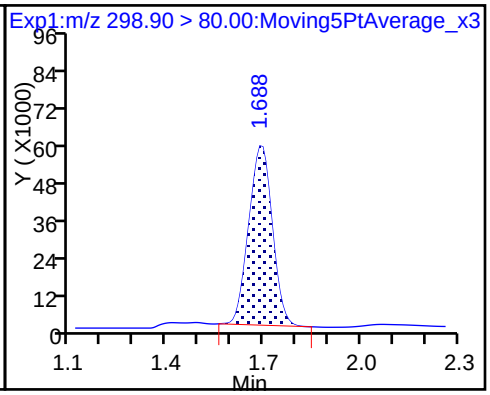
D 3 13C5-PFPeA



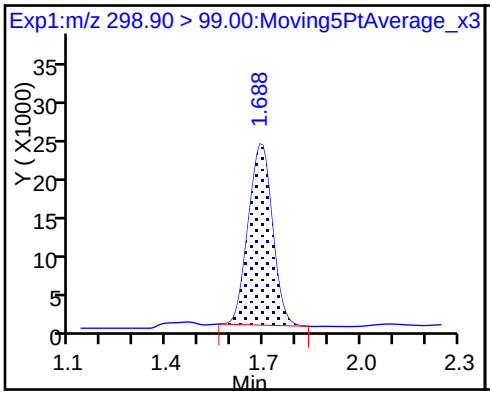
D 47 13C3-PFBS



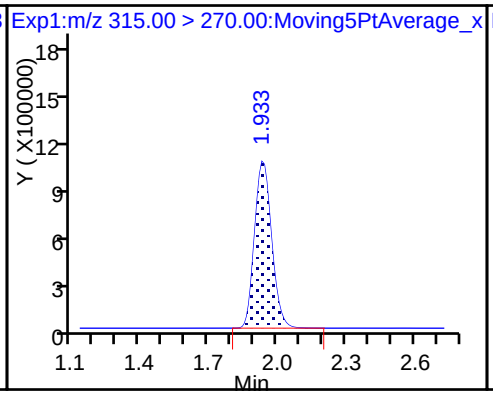
5 Perfluorobutanesulfonic acid



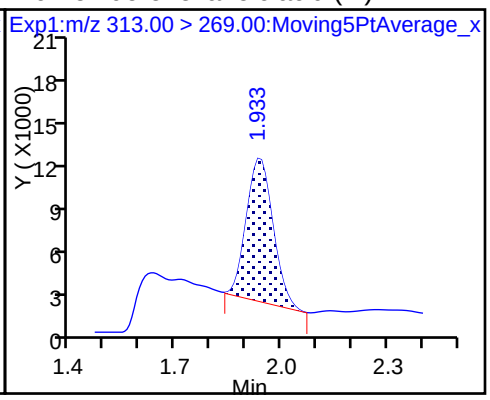
5 Perfluorobutanesulfonic acid



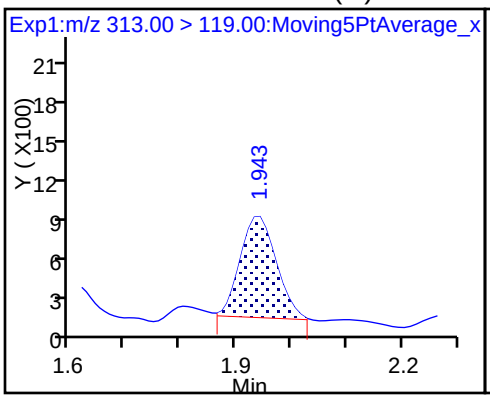
D 7 13C2 PFHxA



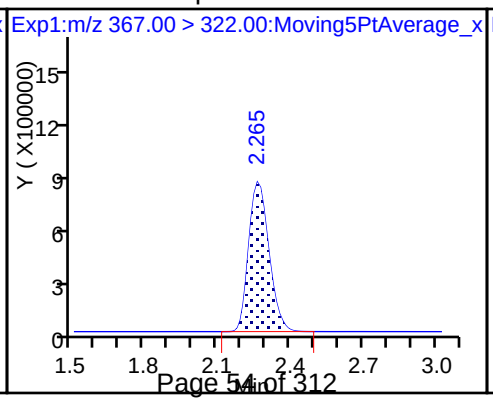
6 Perfluorohexanoic acid (M)



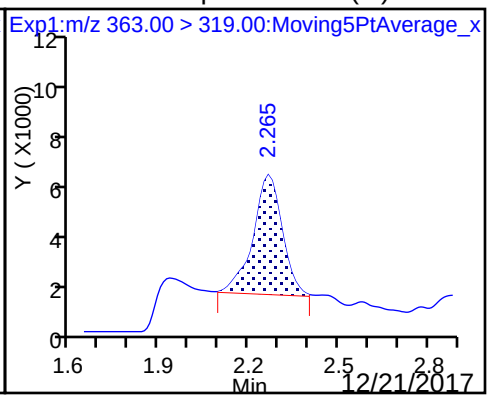
6 Perfluorohexanoic acid (M)



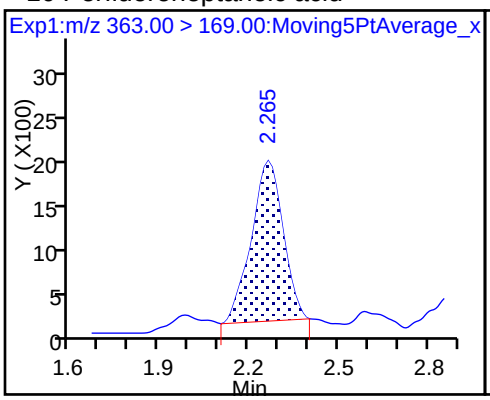
D 9 13C4-PFHpA



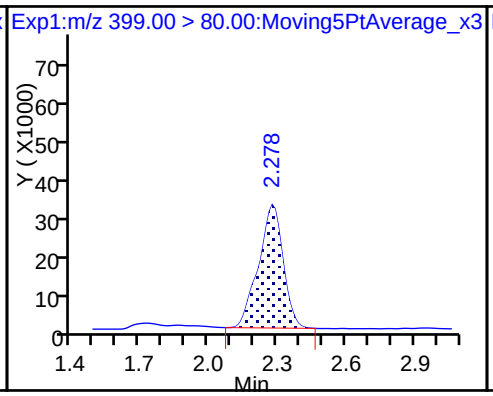
10 Perfluoroheptanoic acid (M)



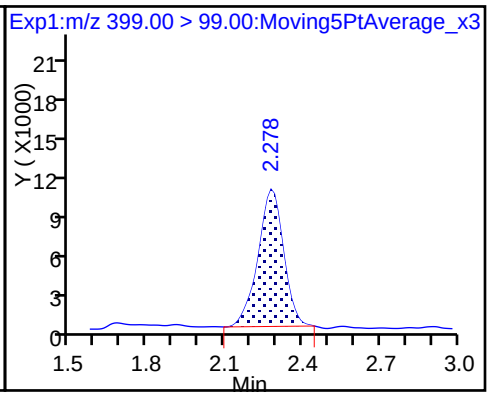
10 Perfluoroheptanoic acid



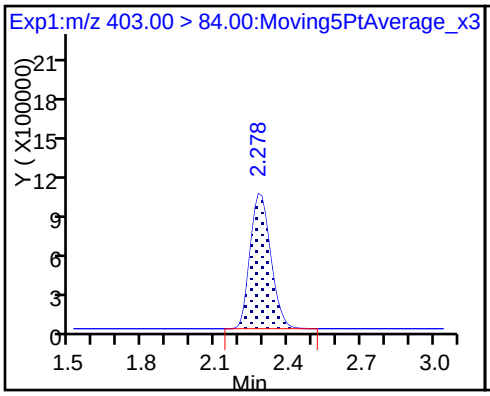
8 Perfluorohexanesulfonic acid



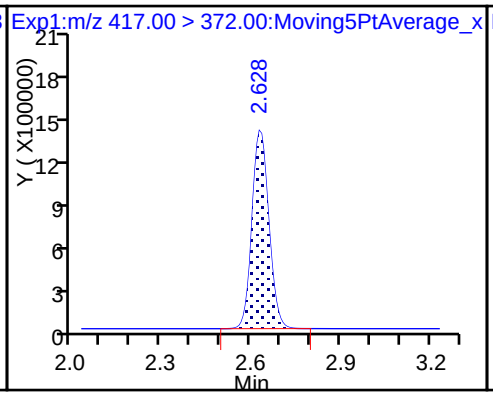
8 Perfluorohexanesulfonic acid



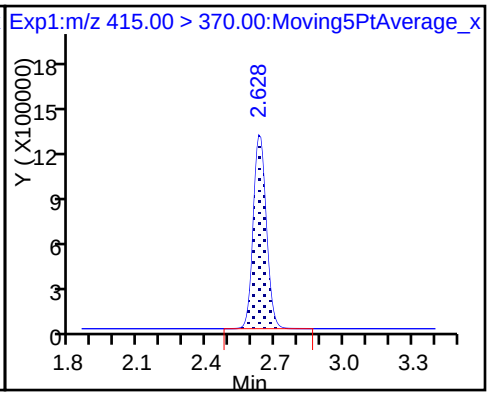
D 11 18O2 PFHxS



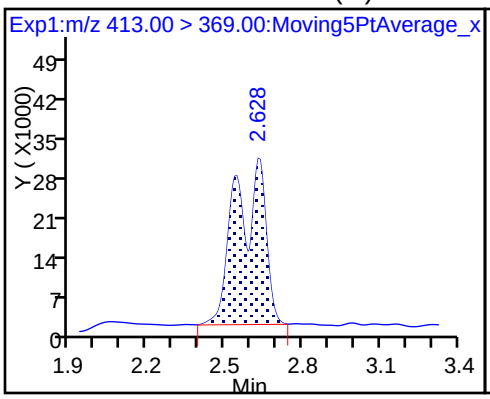
D 14 13C4 PFOA



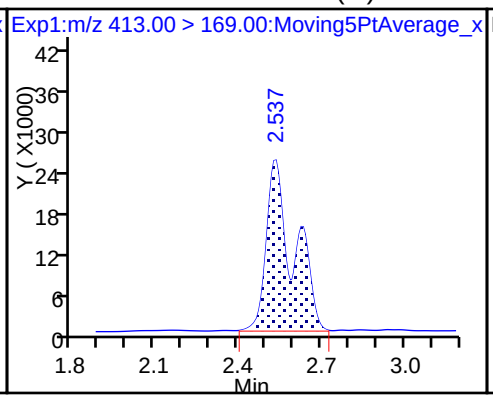
* 62 13C2-PFOA



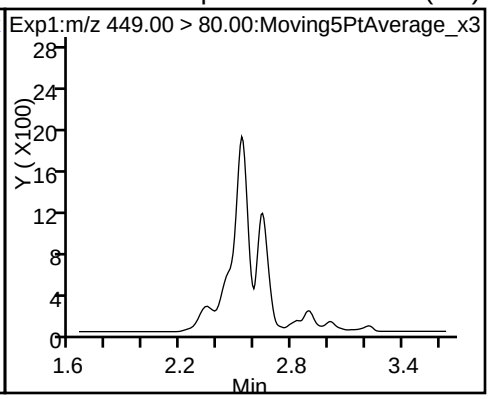
15 Perfluorooctanoic acid (M)



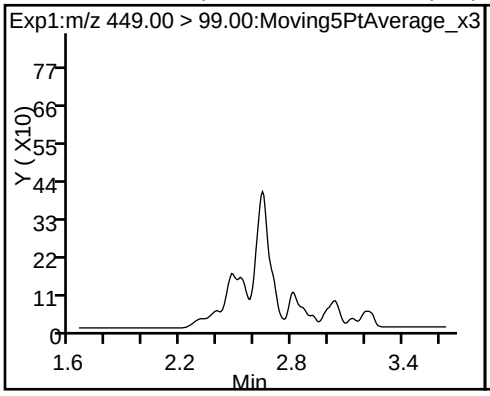
15 Perfluorooctanoic acid (M)



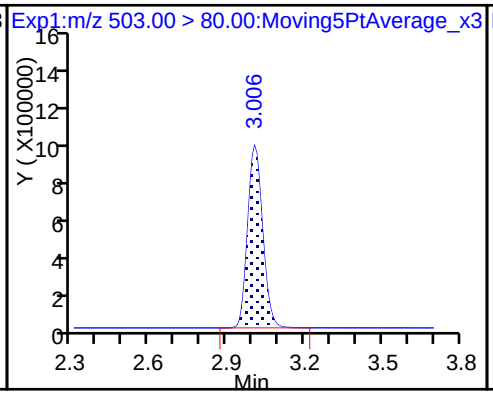
16 Perfluoroheptanesulfonic Acid (ND)



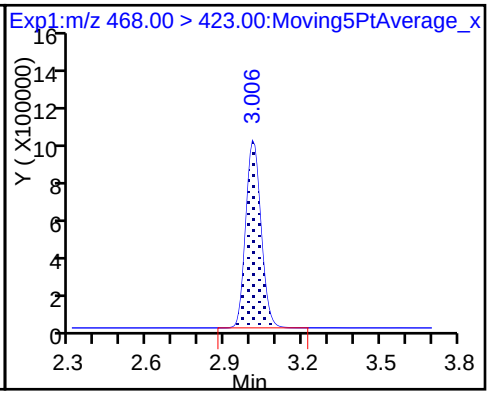
16 Perfluoroheptanesulfonic Acid (ND)



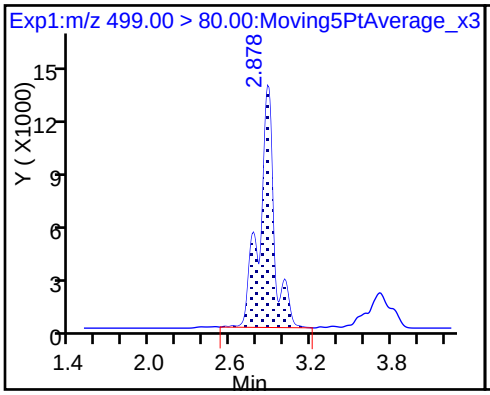
D 18 13C4 PFOS



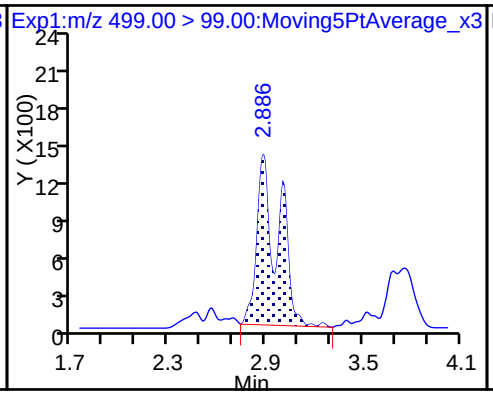
D 19 13C5 PFNA



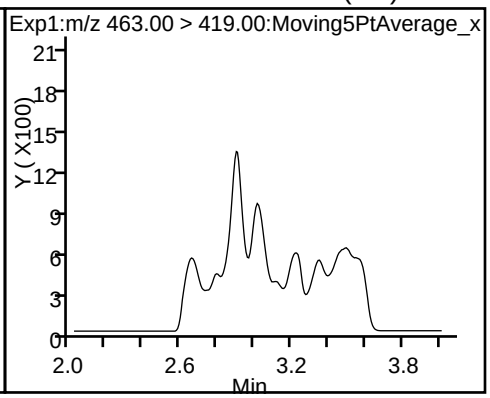
17 Perfluorooctane sulfonic acid



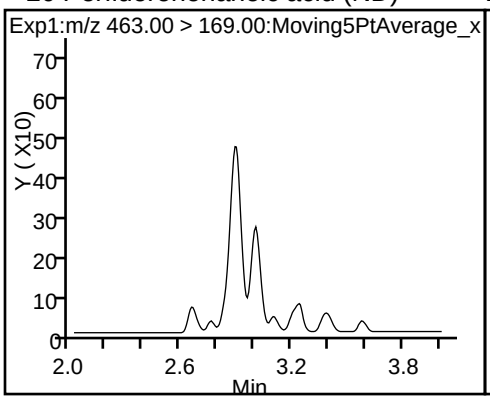
17 Perfluorooctane sulfonic acid



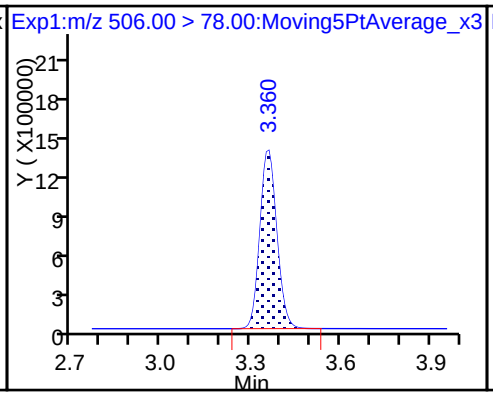
20 Perfluorononanoic acid (ND)



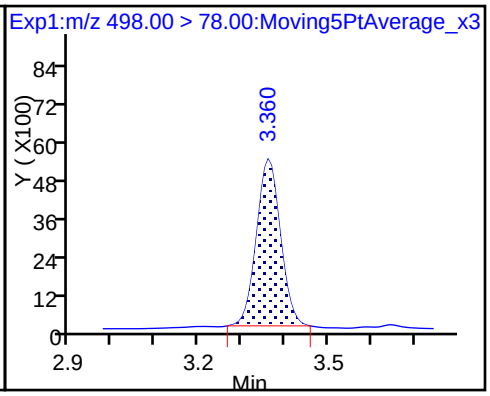
20 Perfluorononanoic acid (ND)



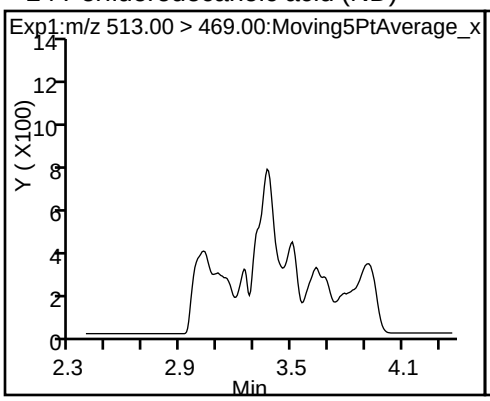
D 21 13C8 FOSA



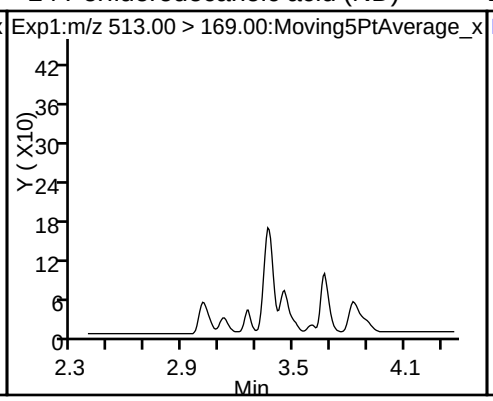
22 Perfluorooctane Sulfonamide



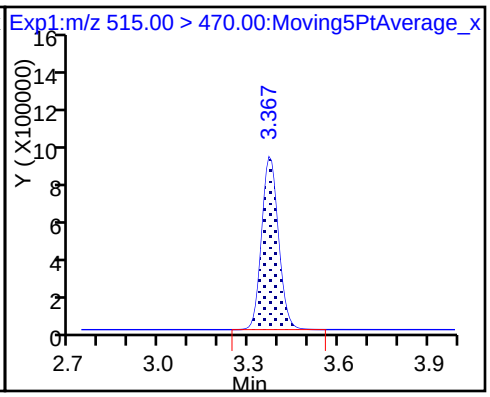
24 Perfluorodecanoic acid (ND)



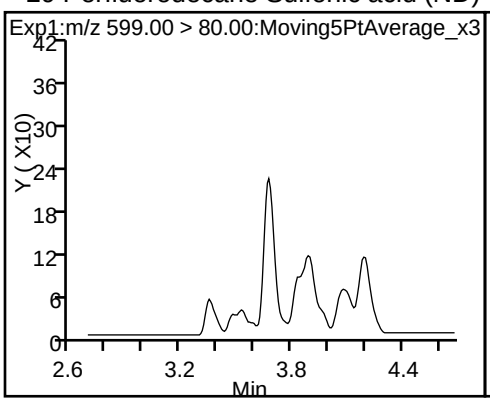
24 Perfluorodecanoic acid (ND)



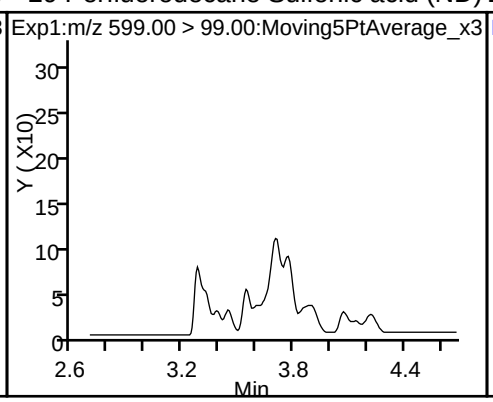
D 23 13C2 PFDA



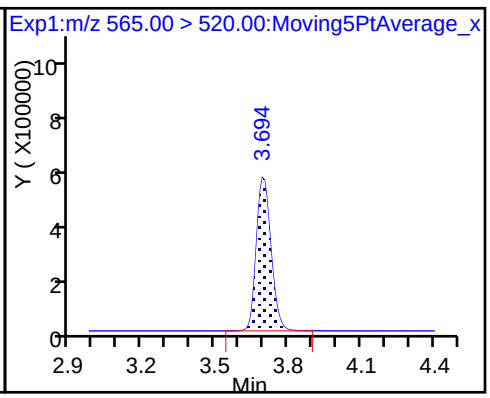
29 Perfluorodecane Sulfonic acid (ND)



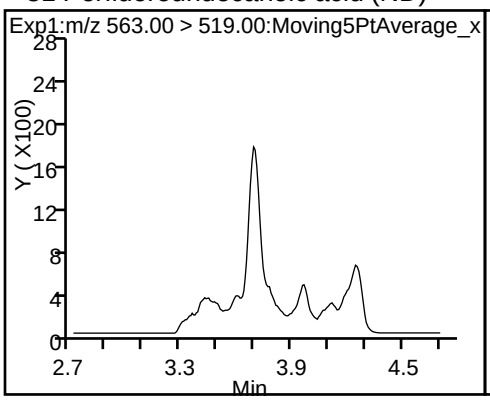
29 Perfluorodecane Sulfonic acid (ND)



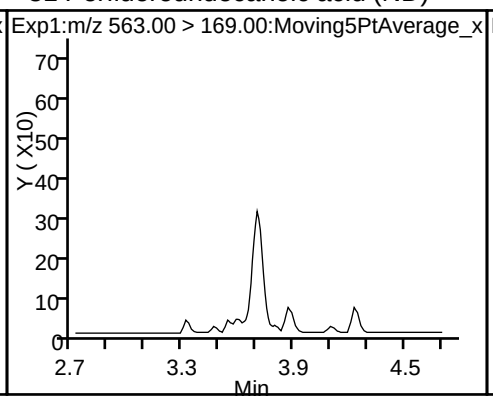
D 30 13C2 PFUnA



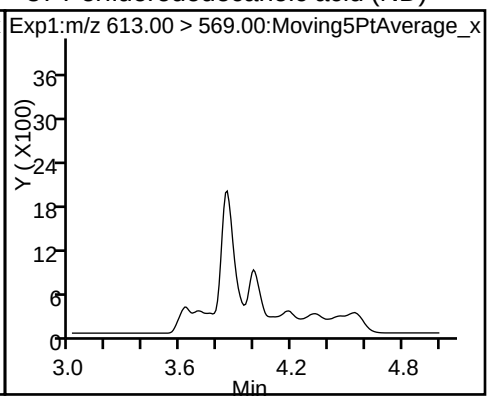
31 Perfluoroundecanoic acid (ND)



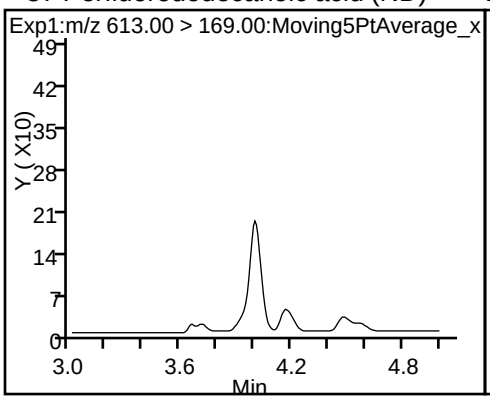
31 Perfluoroundecanoic acid (ND)



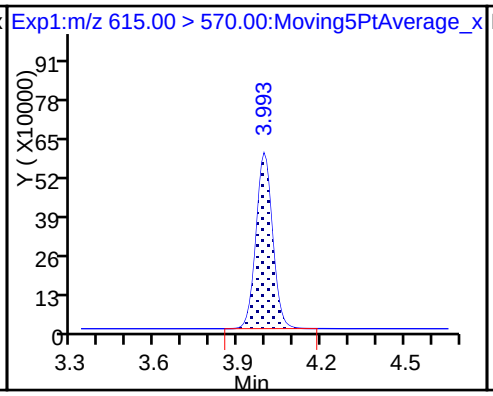
37 Perfluorododecanoic acid (ND)



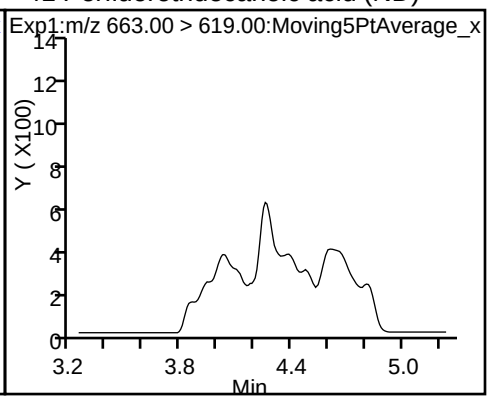
37 Perfluorododecanoic acid (ND)



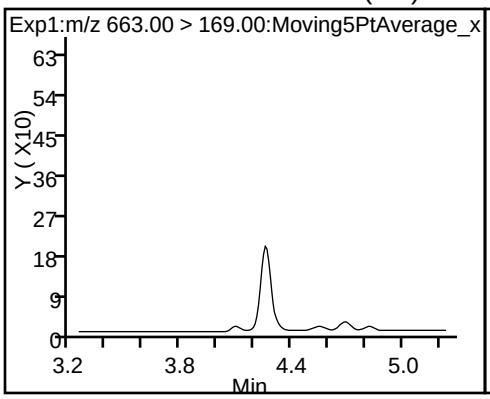
D 36 13C2 PFDoA



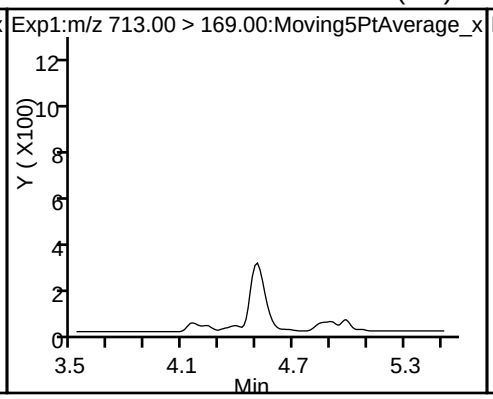
41 Perfluorotridecanoic acid (ND)



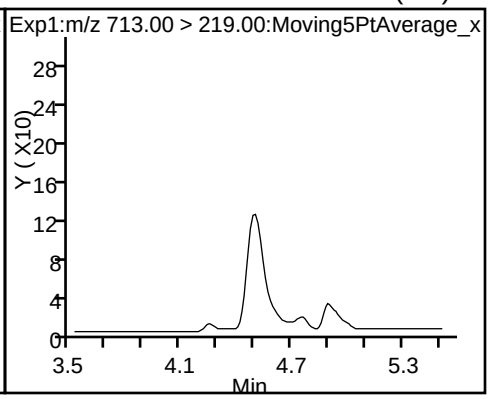
41 Perfluorotridecanoic acid (ND)



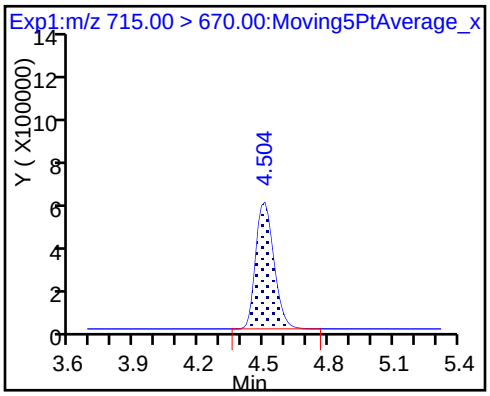
42 Perfluorotetradecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)



D 43 13C2-PFTeDA



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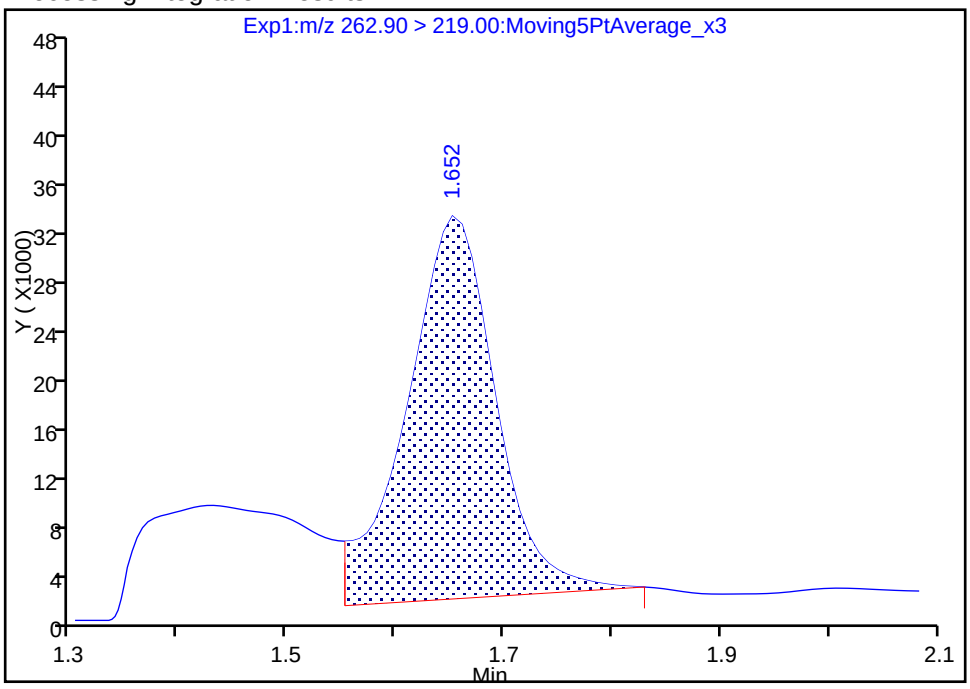
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_007.d
Injection Date: 15-Dec-2017 21:05:31 Instrument ID: A8_N
Lims ID: 320-34256-A-2-A Lab Sample ID: 320-34256-2
Client ID: NS-LDP-02-GW
Operator ID: SACINSTLCMS01 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

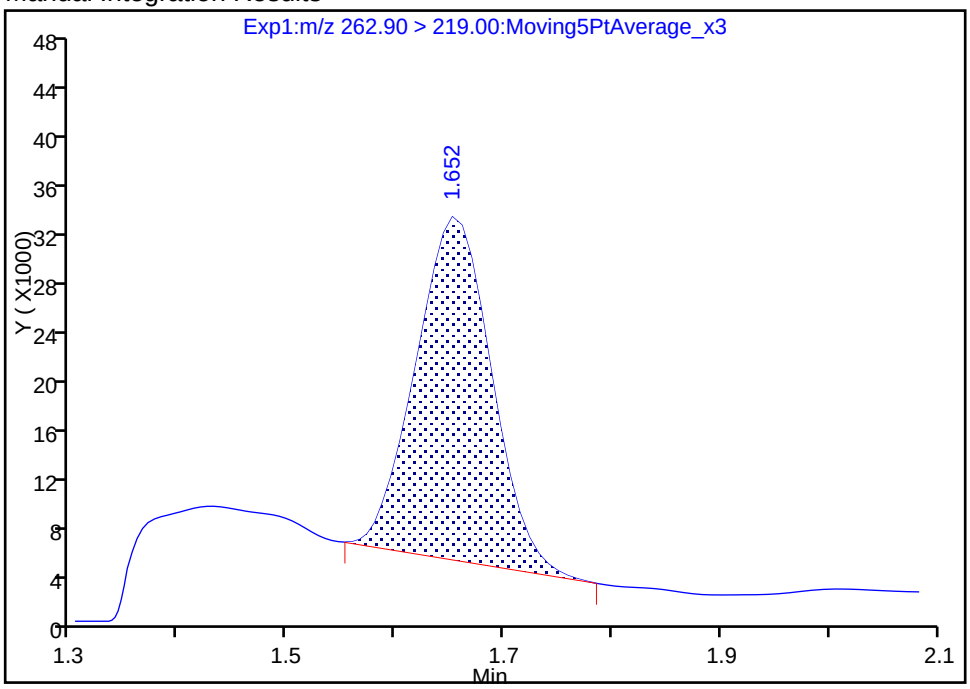
Processing Integration Results

RT: 1.65
Area: 179456
Amount: 0.073889
Amount Units: ng/ml



Manual Integration Results

RT: 1.65
Area: 137720
Amount: 0.056705
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:45:22
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

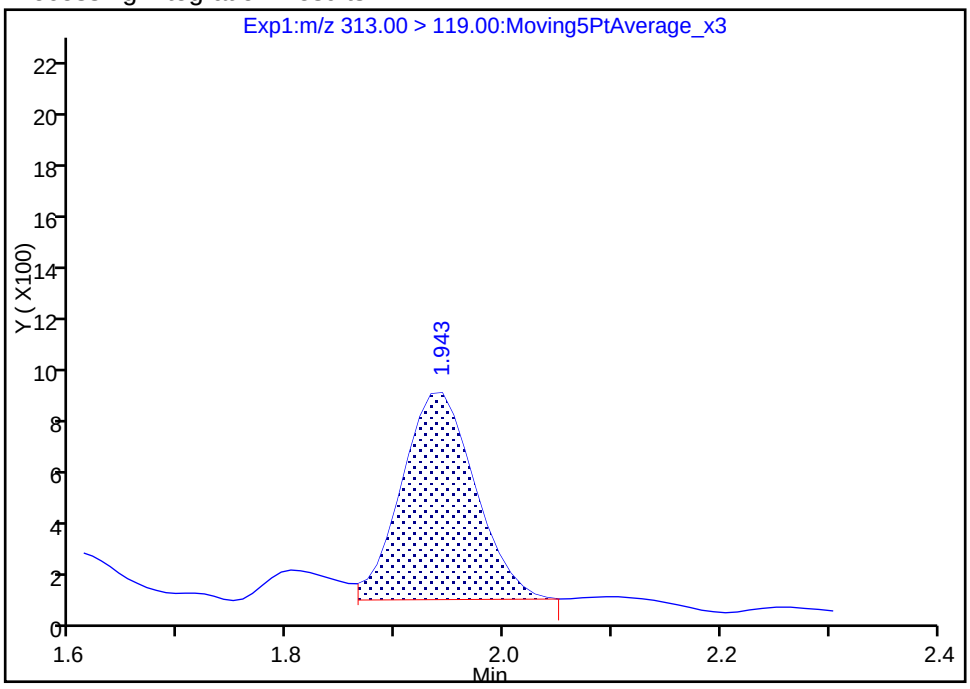
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Injection Date:	15-Dec-2017 21:05:31	Instrument ID:	A8_N		
Lims ID:	320-34256-A-2-A	Lab Sample ID:	320-34256-2		
Client ID:	NS-LDP-02-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

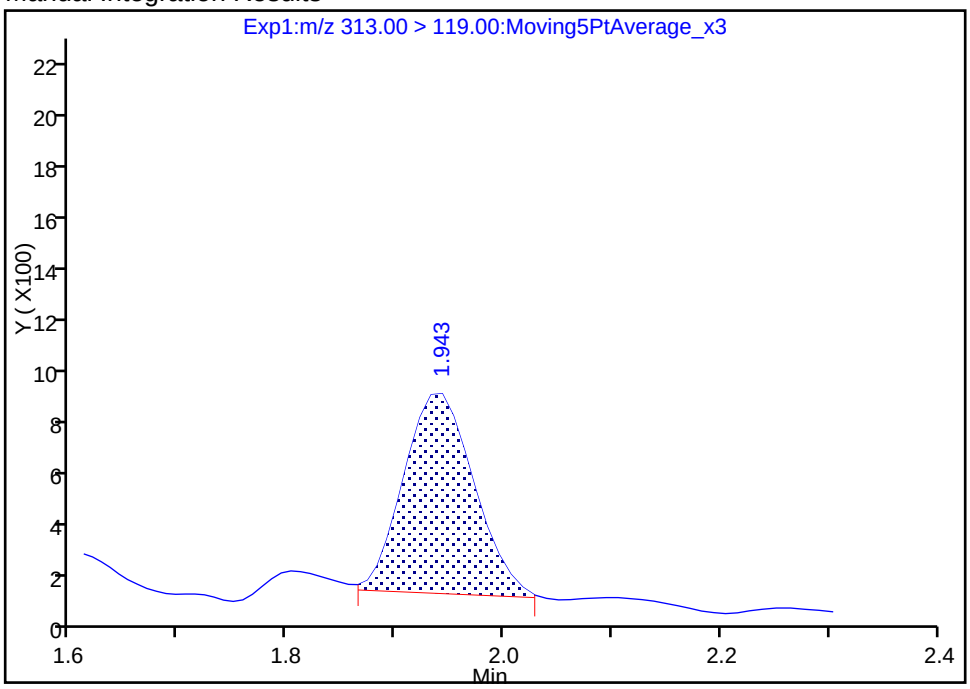
Processing Integration Results

RT: 1.94
Area: 3819
Amount: 0.030724
Amount Units: ng/ml



Manual Integration Results

RT: 1.94
Area: 3552
Amount: 0.024227
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:45:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

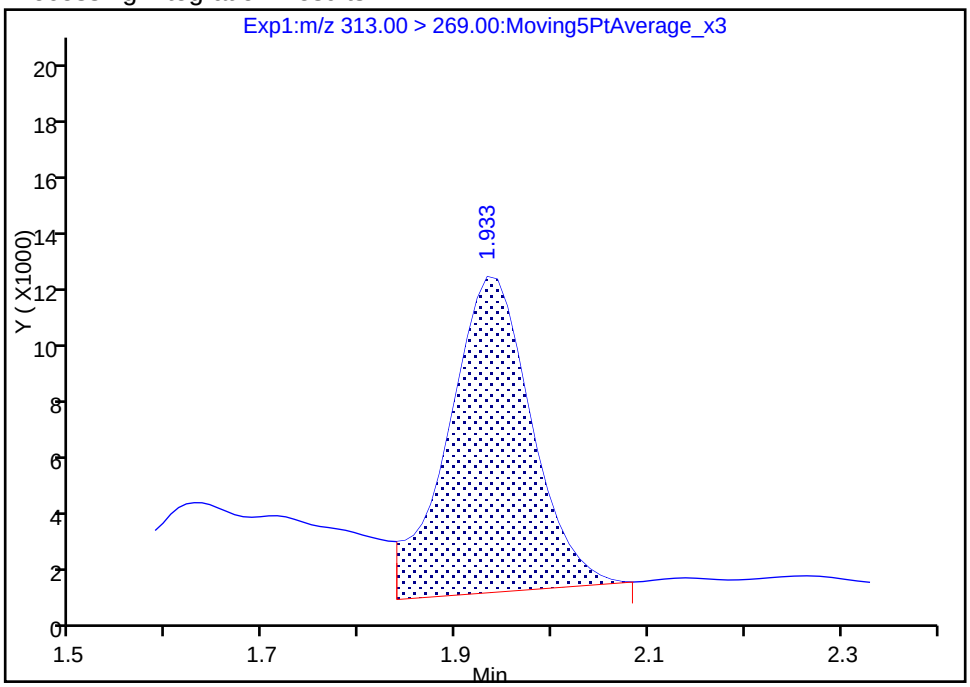
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_007.d				
Injection Date:	15-Dec-2017 21:05:31	Instrument ID:	A8_N		
Lims ID:	320-34256-A-2-A	Lab Sample ID:	320-34256-2		
Client ID:	NS-LDP-02-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

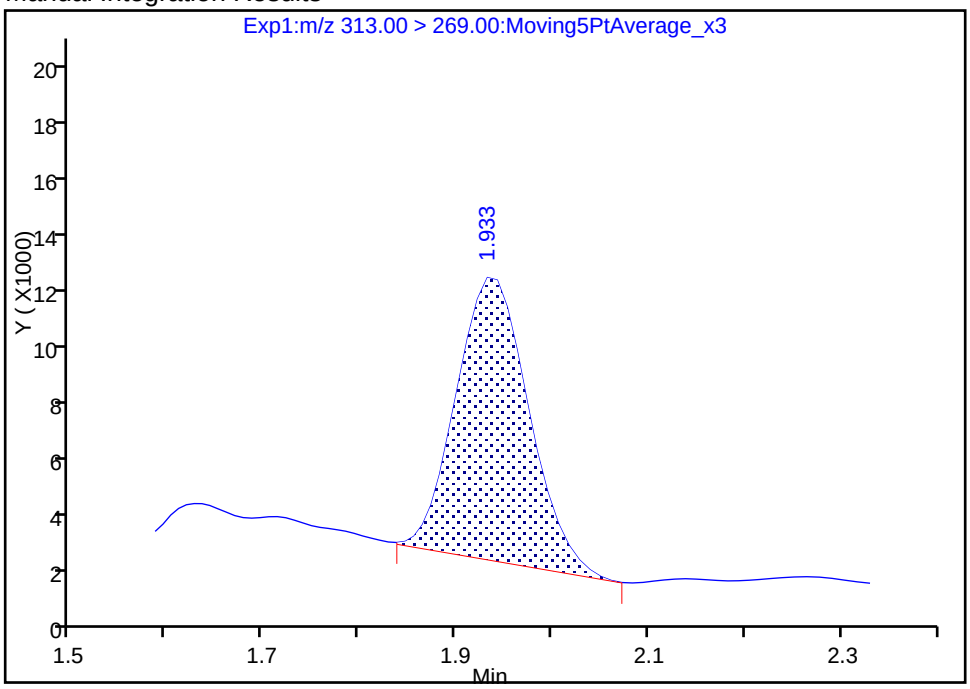
Processing Integration Results

RT: 1.93
Area: 65888
Amount: 0.030724
Amount Units: ng/ml



Manual Integration Results

RT: 1.93
Area: 51954
Amount: 0.024227
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:45:40
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

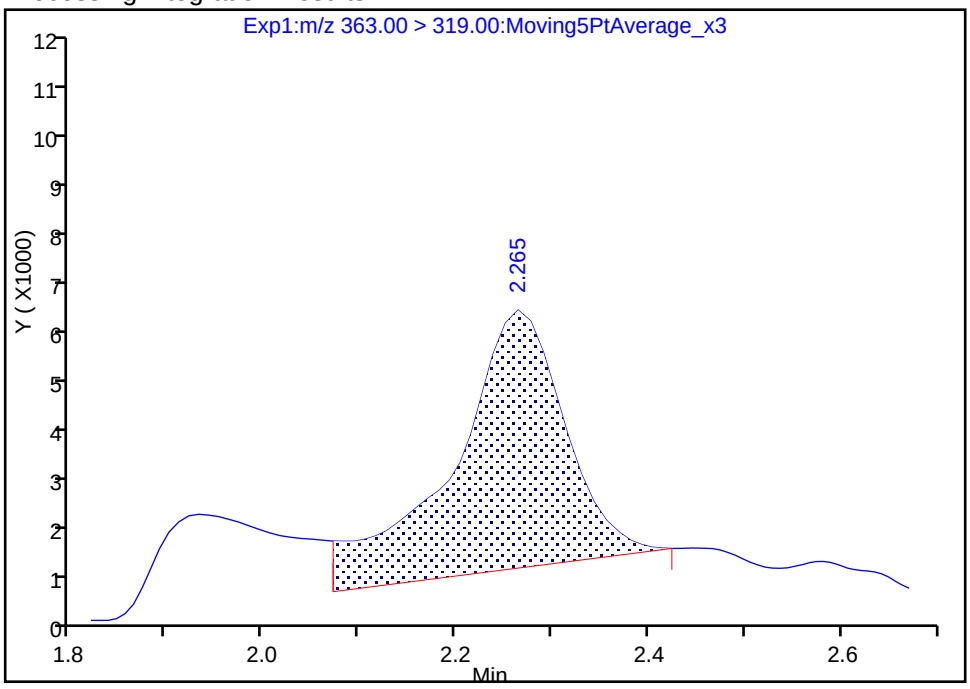
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_007.d				
Injection Date:	15-Dec-2017 21:05:31	Instrument ID:	A8_N		
Lims ID:	320-34256-A-2-A	Lab Sample ID:	320-34256-2		
Client ID:	NS-LDP-02-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

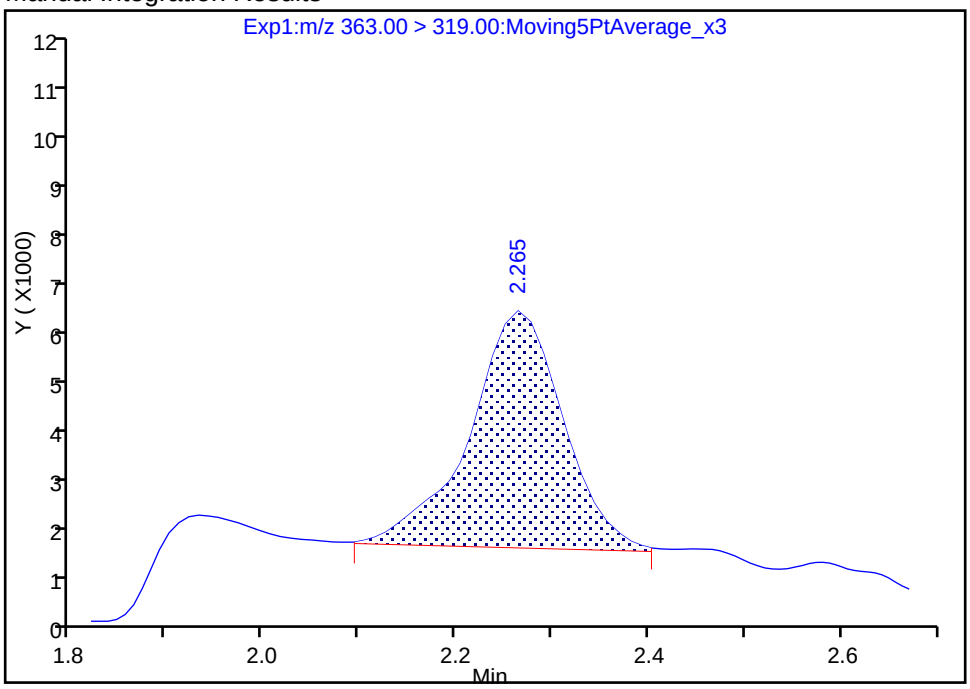
Processing Integration Results

RT: 2.26
Area: 42662
Amount: 0.021137
Amount Units: ng/ml



Manual Integration Results

RT: 2.26
Area: 32520
Amount: 0.016112
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:45:50
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

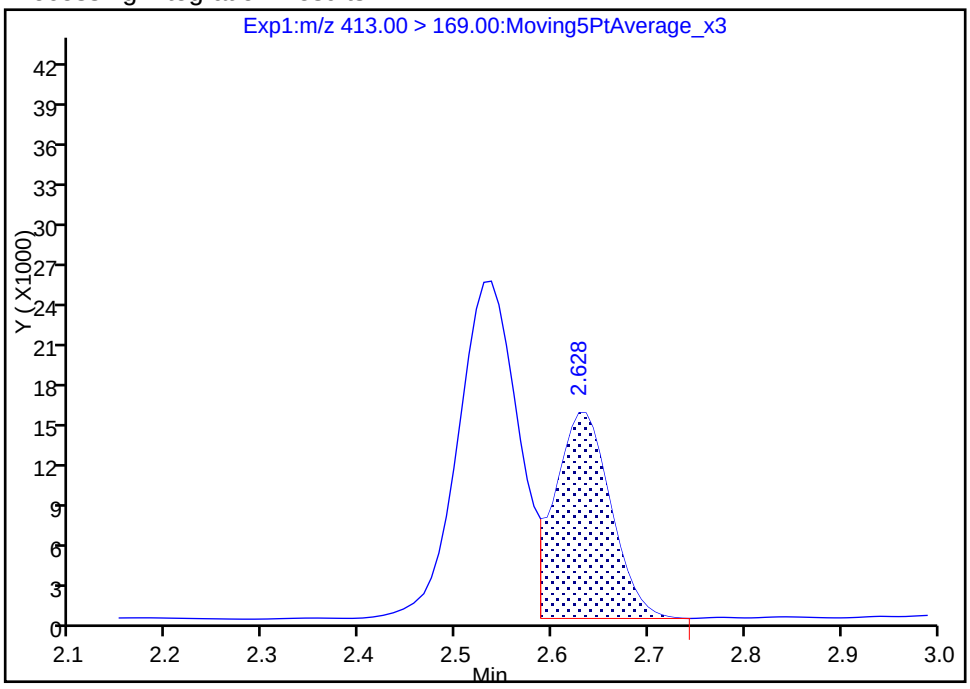
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_007.d				
Injection Date:	15-Dec-2017 21:05:31	Instrument ID:	A8_N		
Lims ID:	320-34256-A-2-A	Lab Sample ID:	320-34256-2		
Client ID:	NS-LDP-02-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

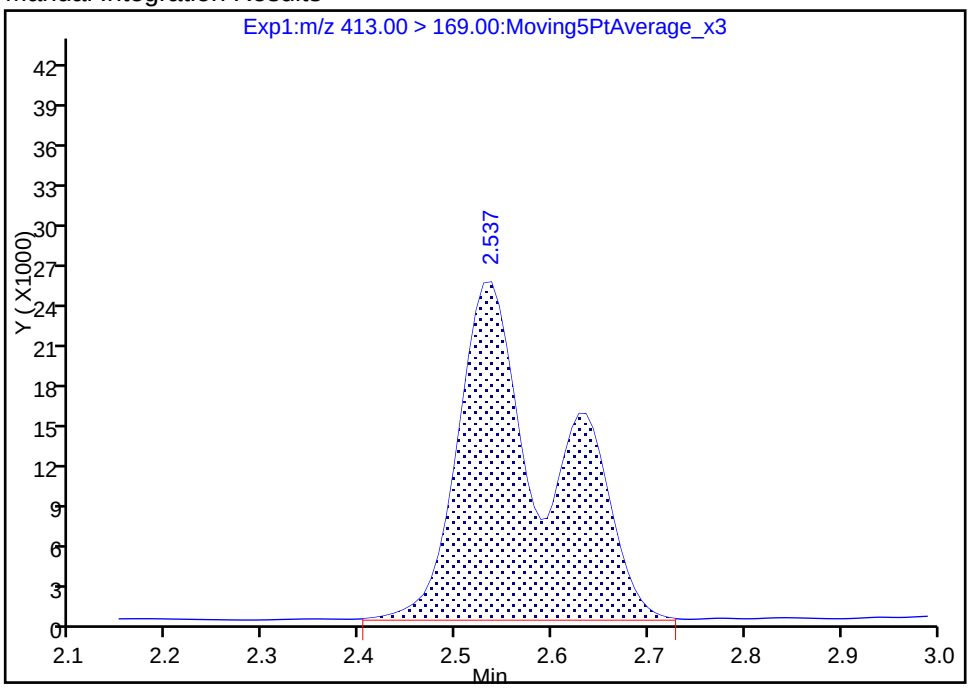
Processing Integration Results

RT: 2.63
Area: 60676
Amount: 0.050149
Amount Units: ng/ml



Manual Integration Results

RT: 2.54
Area: 169751
Amount: 0.102456
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:46:08
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_007.d

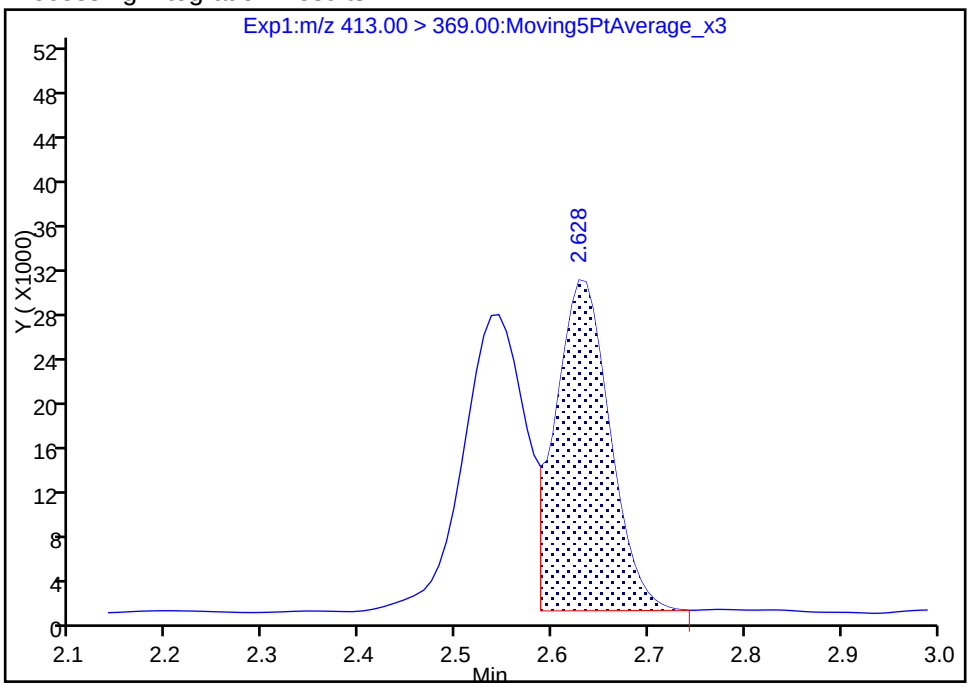
Injection Date:	15-Dec-2017 21:05:31	Instrument ID:	A8_N		
Lims ID:	320-34256-A-2-A	Lab Sample ID:	320-34256-2		
Client ID:	NS-LDP-02-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

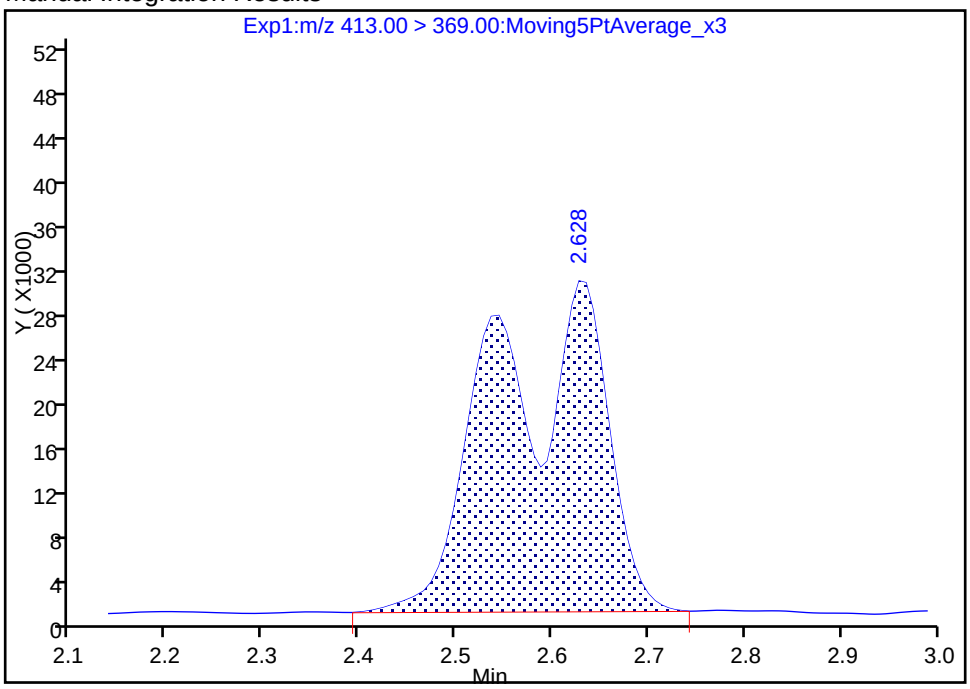
Processing Integration Results

RT: 2.63
Area: 114837
Amount: 0.050149
Amount Units: ng/ml



Manual Integration Results

RT: 2.63
Area: 234616
Amount: 0.102456
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:47:07

Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-LDP-03-GW | Lab Sample ID: 320-34256-3

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_008.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 10:20

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 247.5(mL) | Date Analyzed: 12/15/2017 21:13

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.95	J	2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.0	0.59
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.0	0.86
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.56
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.1	J	2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.63	J B	2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.55
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-LDP-03-GW | Lab Sample ID: 320-34256-3

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_008.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 10:20

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 247.5(mL) | Date Analyzed: 12/15/2017 21:13

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	90		25-150
STL01893	13C5 PFPeA	129		25-150
STL00993	13C2 PFHxA	114		25-150
STL01892	13C4-PFHpA	111		25-150
STL00990	13C4 PFOA	104		25-150
STL00995	13C5 PFNA	113		25-150
STL00996	13C2 PFDA	121		25-150
STL00997	13C2 PFUnA	116		25-150
STL00998	13C2 PFDoA	111		25-150
STL02116	13C2-PFTeDA	130		25-150
STL02337	13C3-PFBS	116		25-150
STL00994	18O2 PFHxS	118		25-150
STL00991	13C4 PFOS	120		25-150
STL01056	13C8 FOSA	111		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_008.d
Lims ID: 320-34256-A-3-A
Client ID: NS-LDP-03-GW
Sample Type: Client
Inject. Date: 15-Dec-2017 21:13:25 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-34256-a-3-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 20-Dec-2017 11:49:38 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK050

First Level Reviewer: hannigana Date: 20-Dec-2017 11:49:38

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.402	1.406	-0.004	0.534	6692618	2.25		90.1	19859	
2 Perfluorobutyric acid										
212.90 > 169.00	1.408	1.408	0.0	1.004	56945	0.0236			9.2	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.646	1.656	-0.010	0.995	10912	0.004350			5.7	
D 3 13C5-PFPeA										
267.90 > 223.00	1.654	1.656	-0.002	0.630	5638307	3.22		129	53837	
D 47 13C3-PFBS										
301.90 > 83.00	1.680	1.690	-0.010	0.640	101010	2.69		116	3360	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.689	1.692	-0.003	1.005	89132	0.0280			255	
298.90 > 99.00	1.689	1.692	-0.003	1.005	37152		2.40(1.25-3.74)		183	
D 7 13C2 PFHxA										
315.00 > 270.00	1.934	1.938	-0.004	0.737	5193472	2.84		114	39279	
6 Perfluorohexanoic acid										R
313.00 > 269.00	1.934	1.939	-0.005	1.000	4131	0.002016			5.1	R
313.00 > 119.00	1.924	1.939	-0.015	0.995	1244		3.32(5.03-15.10)		17.5	
D 9 13C4-PFHpA										
367.00 > 322.00	2.266	2.272	-0.006	0.864	4766692	2.78		111	34675	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.279	2.285	-0.006	1.000	43742	0.0157			87.4	
399.00 > 99.00	2.279	2.285	-0.006	1.000	12267		3.57(1.50-4.49)		45.2	
D 11 18O2 PFHxS										
403.00 > 84.00	2.279	2.286	-0.007	0.869	5977742	2.80		118	49512	
D 14 13C4 PFOA										
417.00 > 372.00	2.624	2.637	-0.013	1.000	5397981	2.60		104	43256	
* 62 13C2-PFOA										
415.00 > 370.00	2.624	2.638	-0.014		5077102	2.50			43567	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.624	2.640	-0.016	1.000	29336	0.0128			21.7	M
413.00 > 169.00	2.624	2.640	-0.016	1.000	16164		1.81(0.84-2.52)		61.0	M
D 18 13C4 PFOS										
503.00 > 80.00	3.001	3.014	-0.013	1.144	3859658	2.87		120	39020	
D 19 13C5 PFNA										
468.00 > 423.00	3.001	3.015	-0.014	1.144	3861296	2.81		113	35724	
D 21 13C8 FOSA										
506.00 > 78.00	3.349	3.354	-0.005	1.276	5356211	2.78		111	43192	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.349	3.356	-0.007	1.000	3060	0.001509			116	
D 23 13C2 PFDA										
515.00 > 470.00	3.364	3.379	-0.015	1.282	3382415	3.03		121	41528	
D 30 13C2 PFUnA										
565.00 > 520.00	3.690	3.709	-0.019	1.406	2466088	2.90		116	35588	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.690	3.711	-0.021	1.000	4272	0.004772			21.7	
563.00 > 169.00	3.690	3.711	-0.021	1.000	1125		3.80(0.00-0.00)		70.7	
D 36 13C2 PFDoA										
615.00 > 570.00	3.990	4.008	-0.018	1.521	2518196	2.77		111	32360	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.487	4.519	-0.032	1.710	3192426	3.24		130	22155	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 20-Dec-2017 11:49:38 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_008.d

Injection Date: 15-Dec-2017 21:13:25 Instrument ID: A8_N

Lims ID: 320-34256-A-3-A Lab Sample ID: 320-34256-3

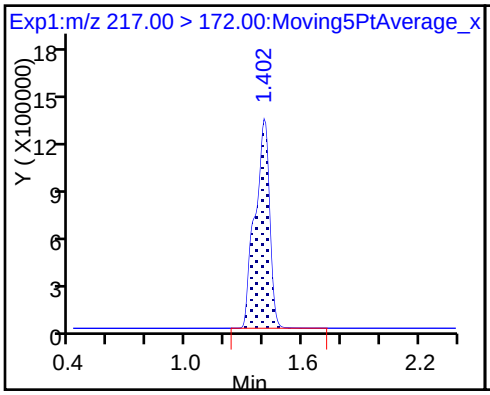
Client ID: NS-LDP-03-GW

Operator ID: SACINSTLCMS01 ALS Bottle#: 7 Worklist Smp#: 8

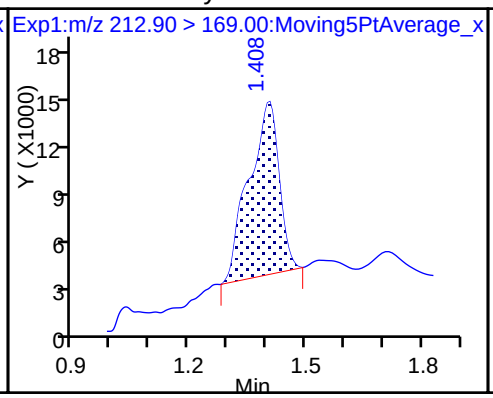
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

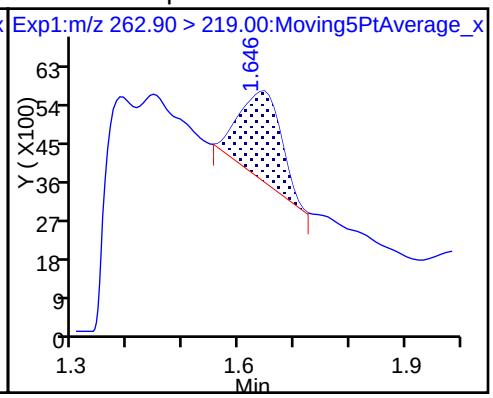
D 1 13C4 PFBA



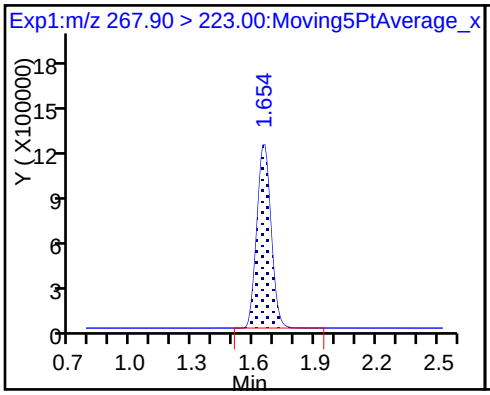
2 Perfluorobutyric acid



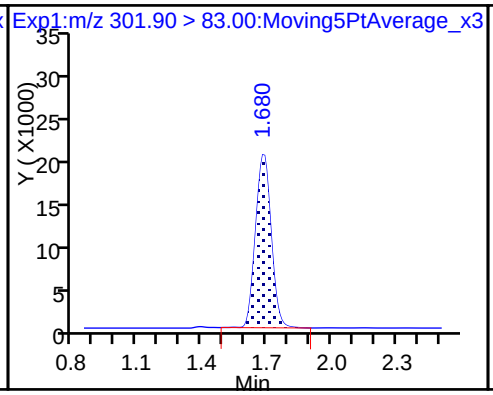
4 Perfluoropentanoic acid



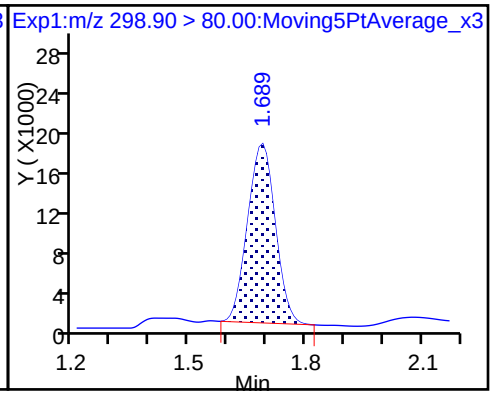
D 3 13C5-PFPeA



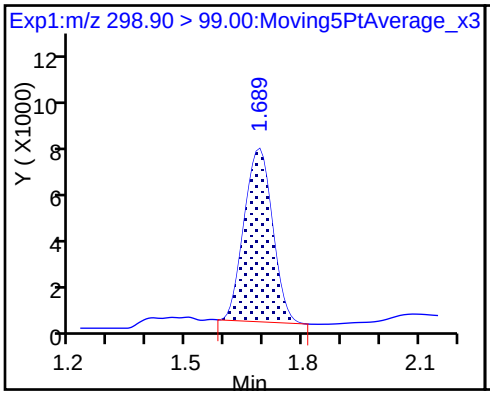
D 47 13C3-PFBS



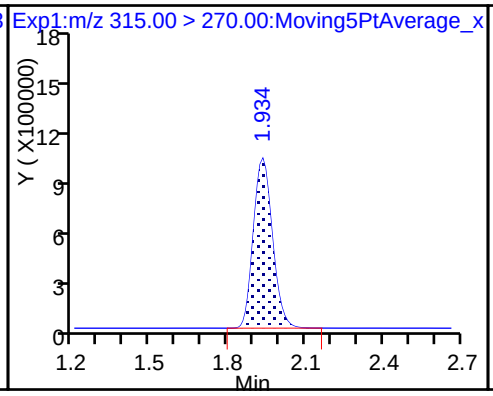
5 Perfluorobutanesulfonic acid



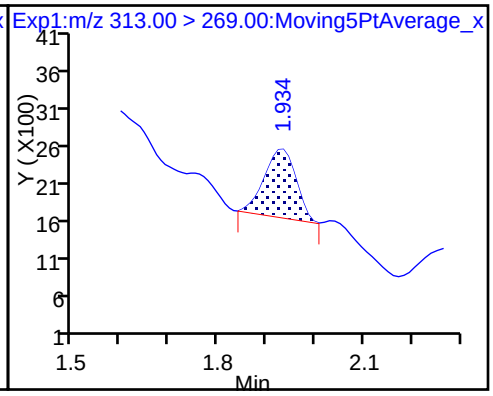
5 Perfluorobutanesulfonic acid



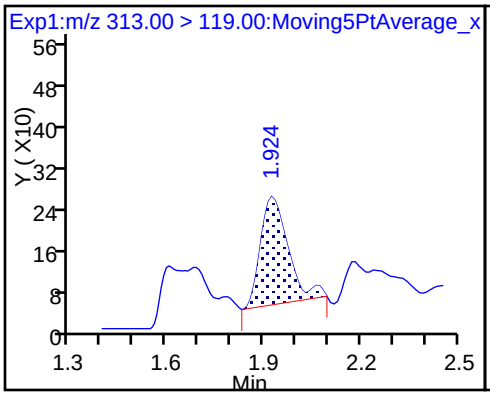
D 7 13C2 PFHxA



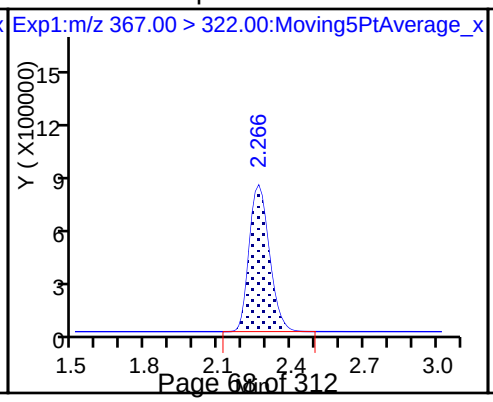
6 Perfluorohexanoic acid



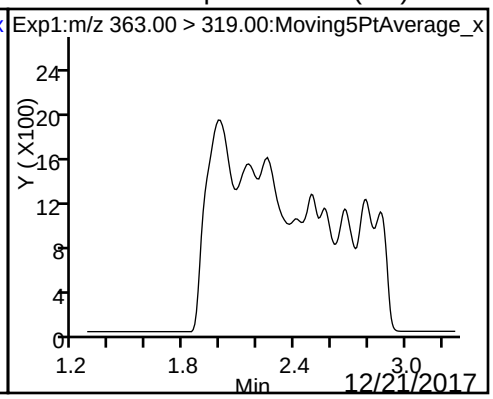
6 Perfluorohexanoic acid



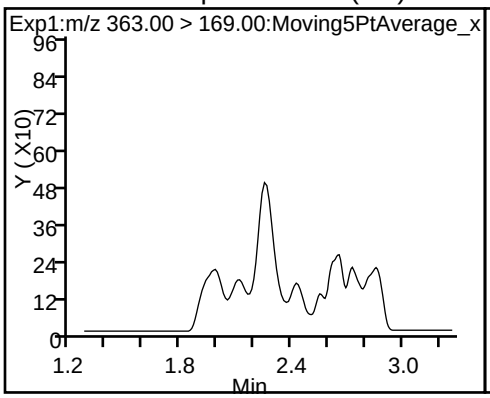
D 9 13C4-PFHpA



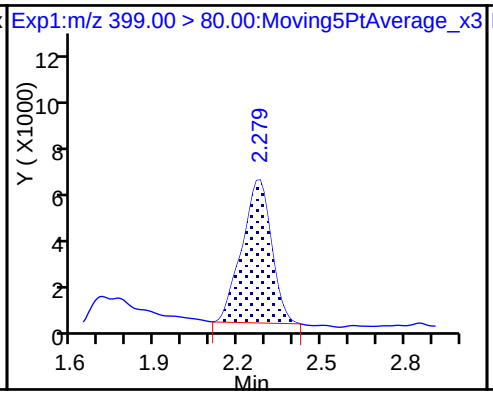
10 Perfluoroheptanoic acid (ND)



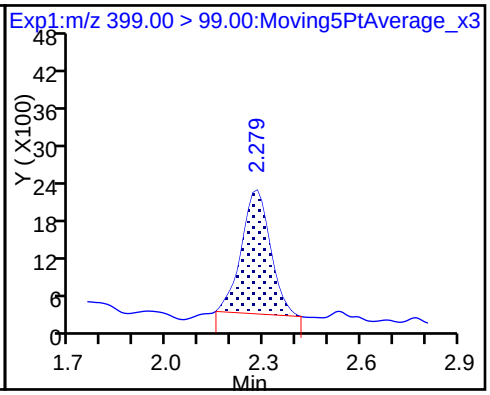
10 Perfluoroheptanoic acid (ND)



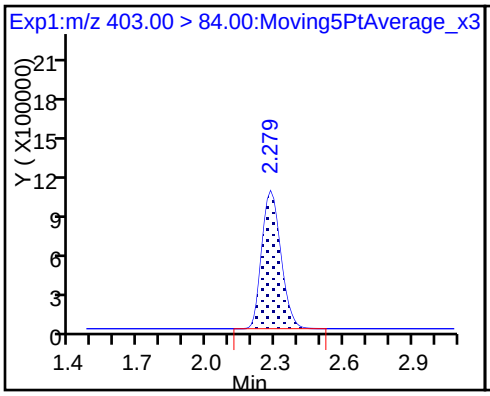
8 Perfluorohexanesulfonic acid



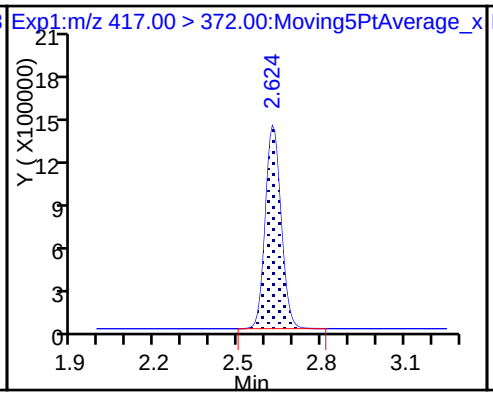
8 Perfluorohexanesulfonic acid



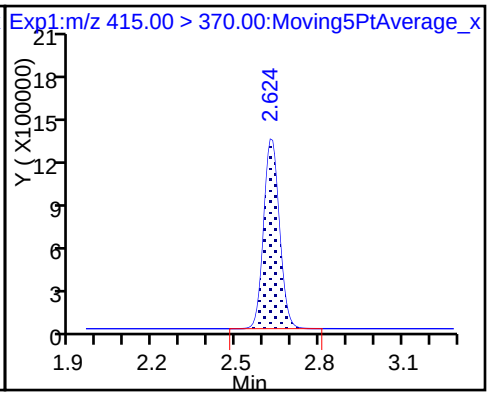
D 11 18O2 PFHxS



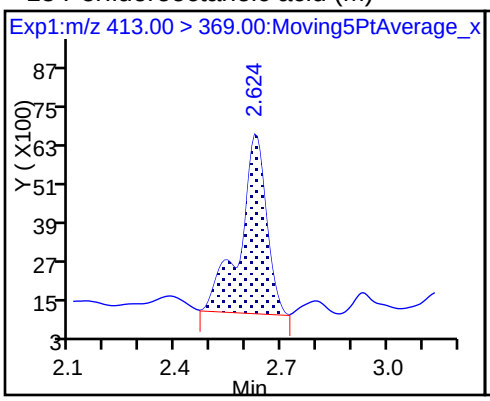
D 14 13C4 PFOA



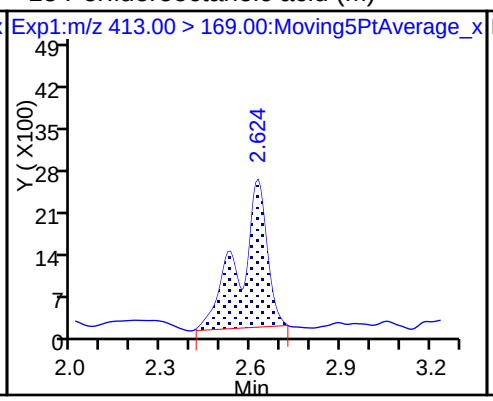
* 62 13C2-PFOA



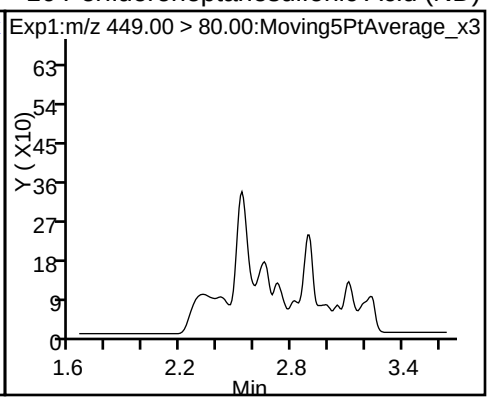
15 Perfluorooctanoic acid (M)



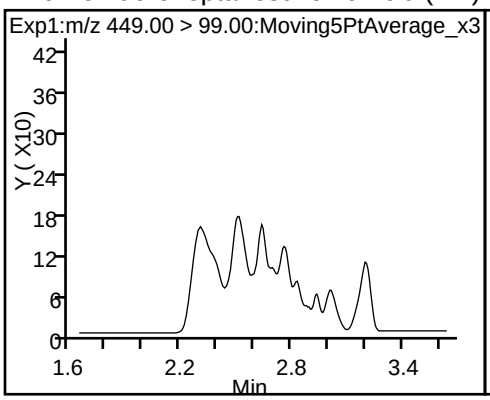
15 Perfluorooctanoic acid (M)



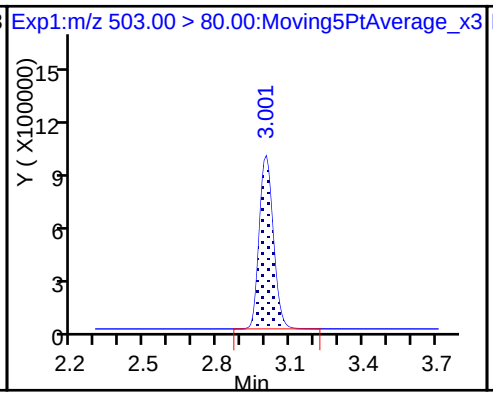
16 Perfluoroheptanesulfonic Acid (ND)



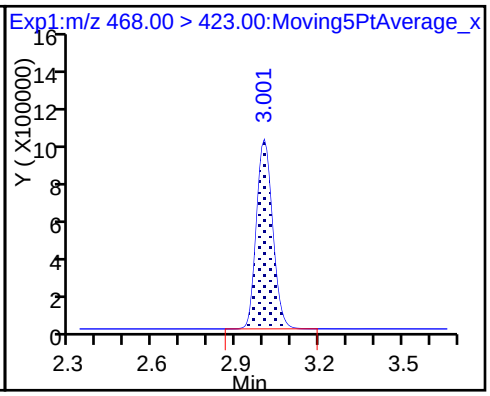
16 Perfluoroheptanesulfonic Acid (ND)



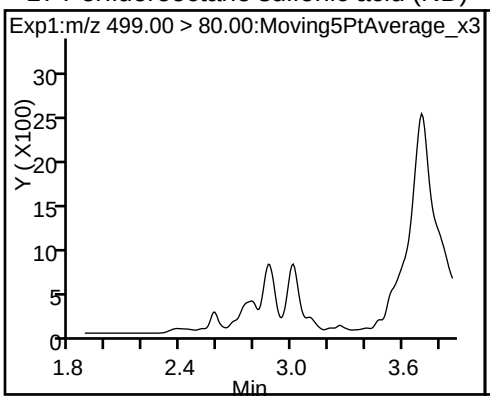
D 18 13C4 PFOS



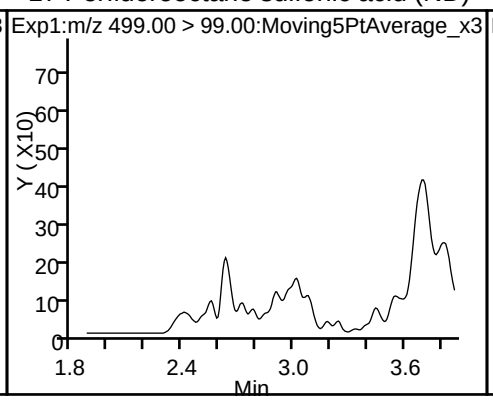
D 19 13C5 PFNA



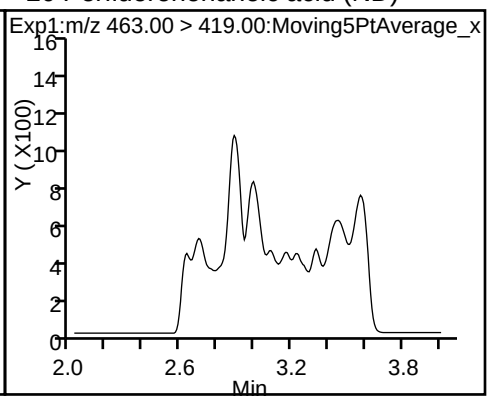
17 Perfluorooctane sulfonic acid (ND)



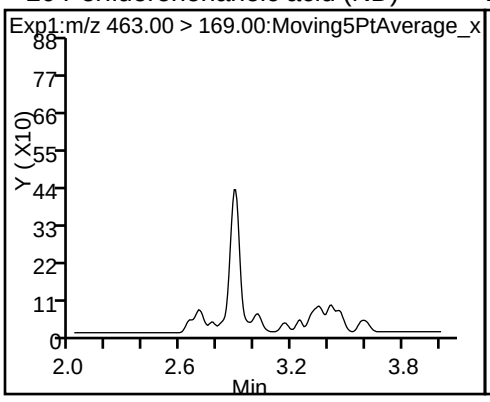
17 Perfluorooctane sulfonic acid (ND)



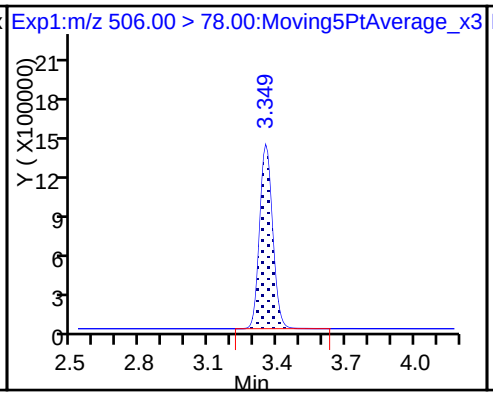
20 Perfluorononanoic acid (ND)



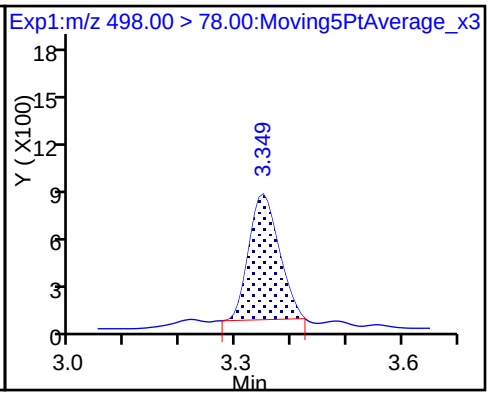
20 Perfluorononanoic acid (ND)



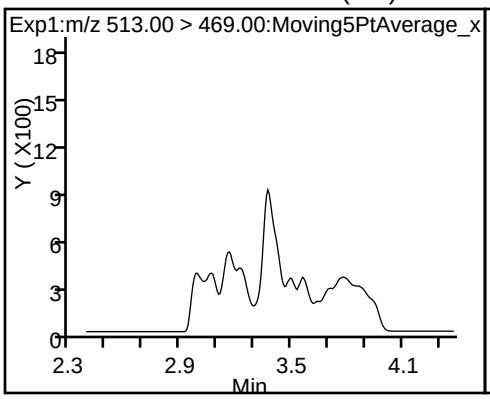
D 21 13C8 FOSA



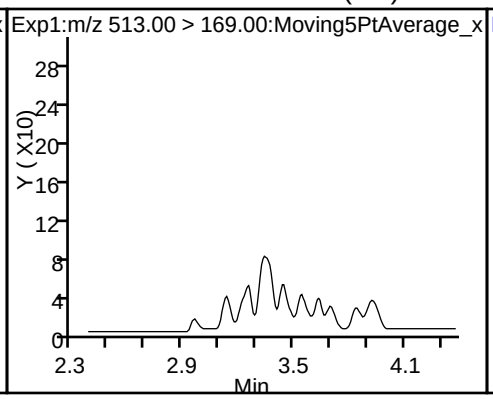
22 Perfluorooctane Sulfonamide



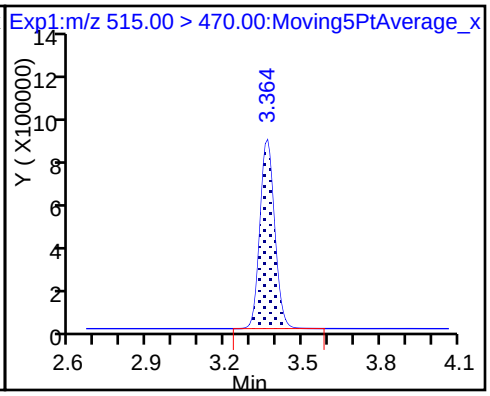
24 Perfluorodecanoic acid (ND)



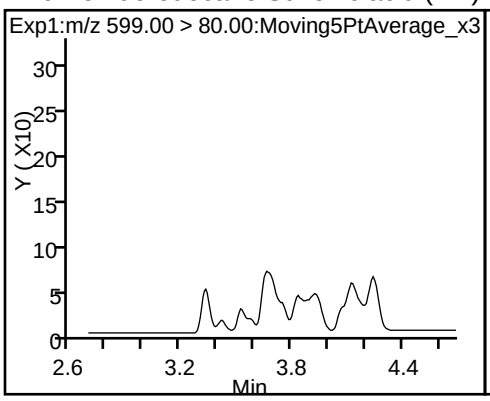
24 Perfluorodecanoic acid (ND)



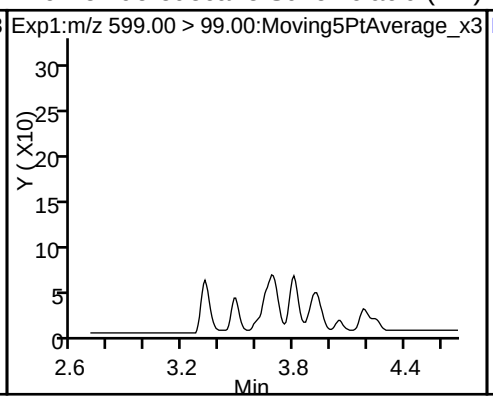
D 23 13C2 PFDA



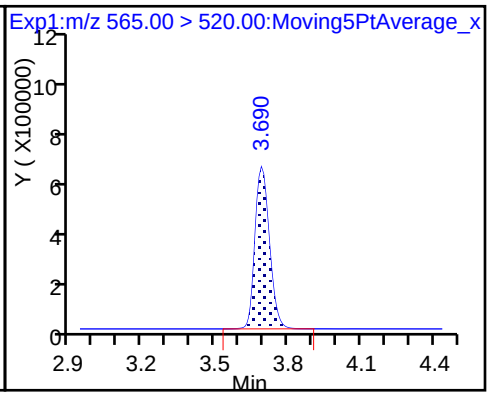
29 Perfluorodecane Sulfonic acid (ND)



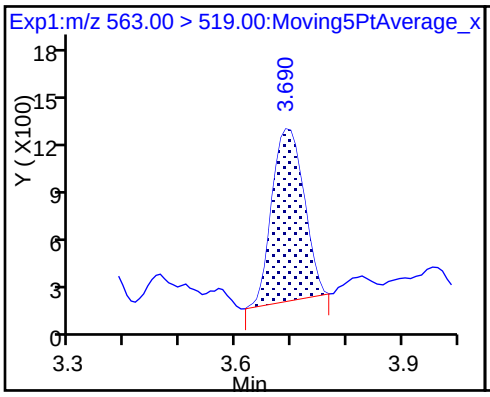
29 Perfluorodecane Sulfonic acid (ND)



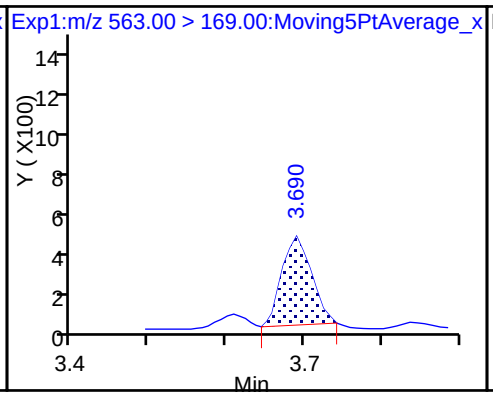
D 30 13C2 PFUnA



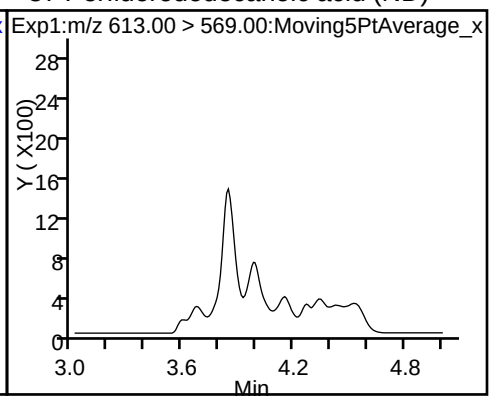
31 Perfluoroundecanoic acid



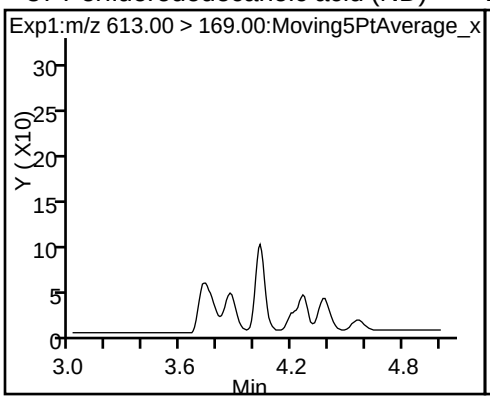
31 Perfluoroundecanoic acid



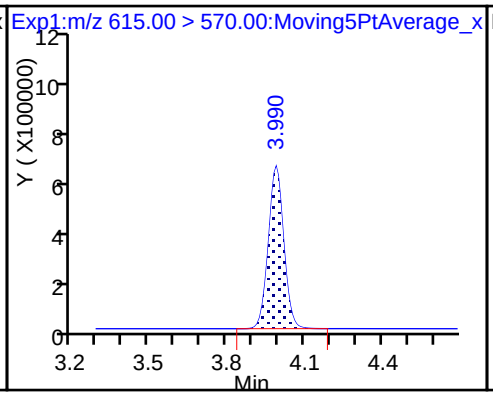
37 Perfluorododecanoic acid (ND)



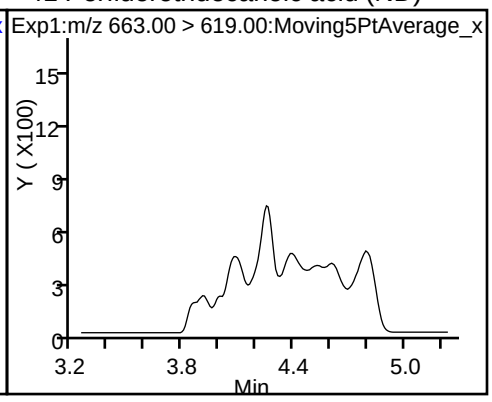
37 Perfluorododecanoic acid (ND)



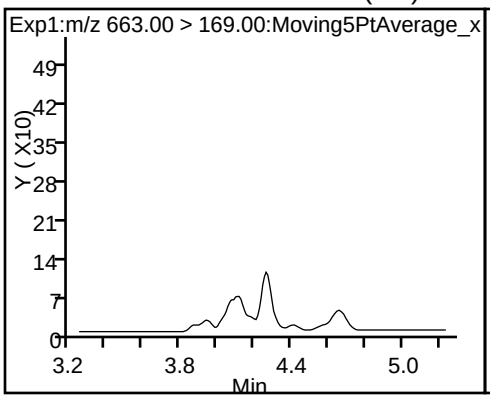
D 36 13C2 PFDoA



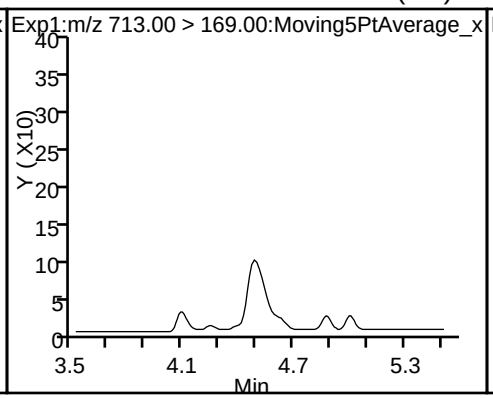
41 Perfluorotridecanoic acid (ND)



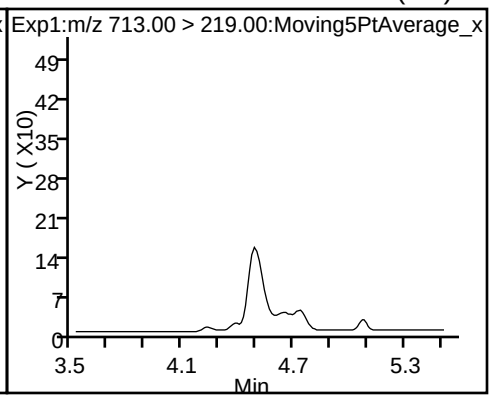
41 Perfluorotridecanoic acid (ND)



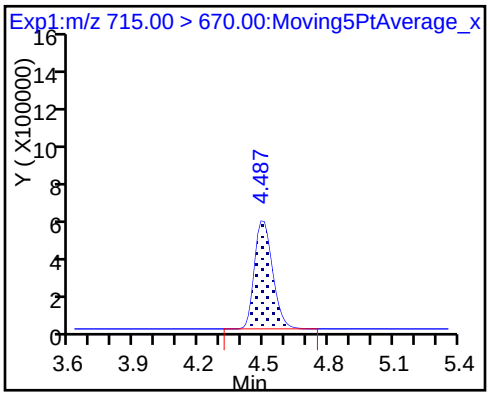
42 Perfluorotetradecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)



D 43 13C2-PFTeDA



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

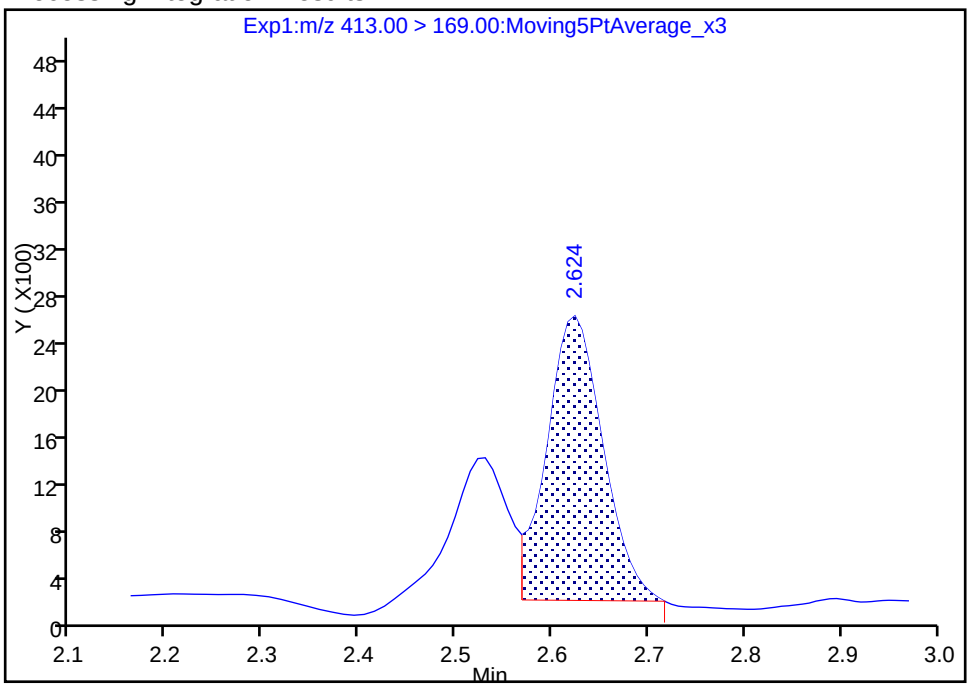
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_008.d				
Injection Date:	15-Dec-2017 21:13:25	Instrument ID:	A8_N		
Lims ID:	320-34256-A-3-A	Lab Sample ID:	320-34256-3		
Client ID:	NS-LDP-03-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	7	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

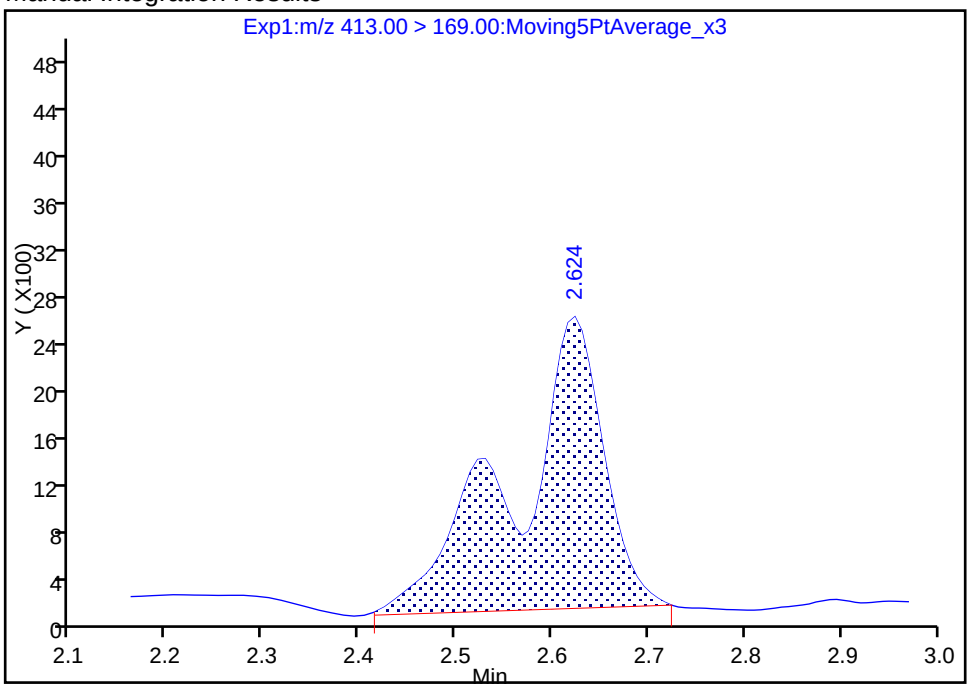
Processing Integration Results

RT: 2.62
Area: 9823
Amount: 0.010099
Amount Units: ng/ml



Manual Integration Results

RT: 2.62
Area: 16164
Amount: 0.012779
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:49:00

Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_008.d

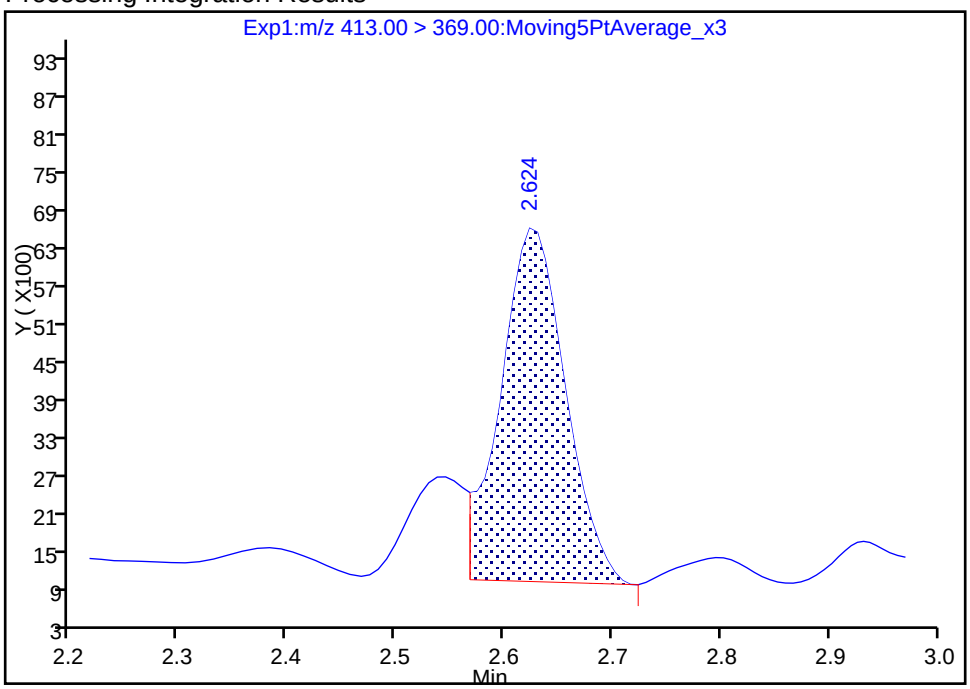
Injection Date:	15-Dec-2017 21:13:25	Instrument ID:	A8_N		
Lims ID:	320-34256-A-3-A	Lab Sample ID:	320-34256-3		
Client ID:	NS-LDP-03-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	7	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

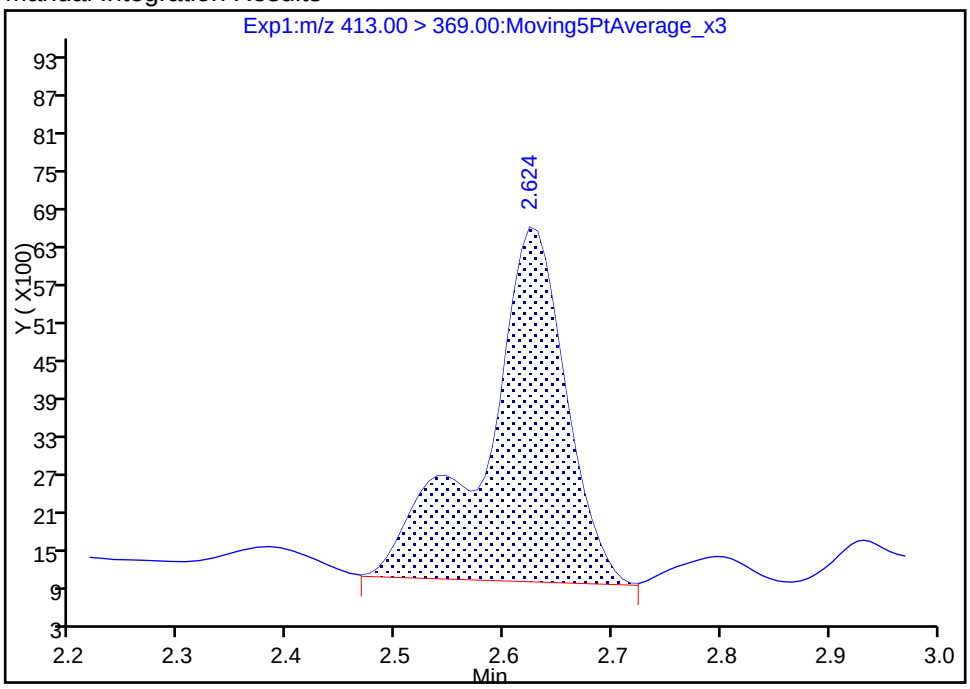
Processing Integration Results

RT: 2.62
Area: 23184
Amount: 0.010099
Amount Units: ng/ml



Manual Integration Results

RT: 2.62
Area: 29336
Amount: 0.012779
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:49:04

Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-OW-36-GW | Lab Sample ID: 320-34256-4

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_009.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 12:25

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 249.9(mL) | Date Analyzed: 12/15/2017 21:21

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	20		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.5		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	16		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	16		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	100		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	0.65	J	2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.0		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	58	B	2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	25		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	480		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.59	J	2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	1.0	J	2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-OW-36-GW | Lab Sample ID: 320-34256-4

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_009.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 12:25

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 249.9(mL) | Date Analyzed: 12/15/2017 21:21

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	32		25-150
STL01893	13C5 PFPeA	88		25-150
STL00993	13C2 PFHxA	89		25-150
STL01892	13C4-PFHpA	96		25-150
STL00990	13C4 PFOA	105		25-150
STL00995	13C5 PFNA	127		25-150
STL00996	13C2 PFDA	139		25-150
STL00997	13C2 PFUnA	134		25-150
STL00998	13C2 PFDoA	127		25-150
STL02116	13C2-PFTeDA	128		25-150
STL02337	13C3-PFBS	108		25-150
STL00994	18O2 PFHxS	112		25-150
STL00991	13C4 PFOS	125		25-150
STL01056	13C8 FOSA	106		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_009.d
Lims ID: 320-34256-A-4-A
Client ID: NS-OW-36-GW
Sample Type: Client
Inject. Date: 15-Dec-2017 21:21:18 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-34256-a-4-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 20-Dec-2017 11:59:10 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK050

First Level Reviewer: hannigana Date: 20-Dec-2017 11:59:10

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.402	1.406	-0.004	0.534	2303508	0.7921		31.7	6877	
2 Perfluorobutyric acid										M
212.90 > 169.00	1.396	1.408	-0.012	0.996	423975	0.5103			3.6	M
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.646	1.656	-0.010	0.995	186849	0.1116			3.8	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.654	1.656	-0.002	0.630	3762525	2.20		87.9	10475	
D 47 13C3-PFBS										
301.90 > 83.00	1.680	1.690	-0.010	0.640	92534	2.52		108	184	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	1.680	1.692	-0.012	1.000	293402	0.1005			6.1	M
298.90 > 99.00	1.689	1.692	-0.003	1.005	177593		1.65(1.25-3.74)		34.9	M
D 7 13C2 PFHxA										
315.00 > 270.00	1.934	1.938	-0.004	0.736	4001458	2.24		89.4	25083	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.934	1.939	-0.005	1.000	628570	0.3982			38.0	M
313.00 > 119.00	1.934	1.939	-0.005	1.000	60908		10.32(5.03-15.10)		76.3	
D 9 13C4-PFHpA										
367.00 > 322.00	2.266	2.272	-0.006	0.863	4025965	2.40		95.9	25515	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	2.266	2.273	-0.007	1.000	674336	0.4040			91.8	M
363.00 > 169.00	2.266	2.273	-0.007	1.000	287032		2.35(1.13-3.40)		550	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.279	2.285	-0.006	1.000	3776745	1.46			212	
399.00 > 99.00	2.279	2.285	-0.006	1.000	1167598		3.23(1.50-4.49)		330	
D 11 18O2 PFHxS										
403.00 > 84.00	2.279	2.286	-0.007	0.868	5559249	2.66		112	40806	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C4 PFOA										
417.00 > 372.00	2.627	2.637	-0.011	1.000	5351261	2.64		105	48756	
* 62 13C2-PFOA										
415.00 > 370.00	2.627	2.638	-0.012		4969859	2.50			39603	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.627	2.640	-0.014	1.000	5702349	2.51			1267	M
413.00 > 169.00	2.627	2.640	-0.014	1.000	3421088		1.67(0.84-2.52)		3262	M
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.634	2.644	-0.010	1.000	1535809	0.6343			170	
449.00 > 99.00	2.634	2.644	-0.010	1.000	416670		3.69(1.94-5.82)		273	
D 18 13C4 PFOS										
503.00 > 80.00	3.002	3.014	-0.012	1.143	3924204	2.98		125	4937	
D 19 13C5 PFNA										
468.00 > 423.00	3.002	3.015	-0.013	1.143	4256830	3.17		127	28813	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.002	3.015	-0.013	1.000	21124362	12.1			6835	
499.00 > 99.00	3.002	3.015	-0.013	1.000	4395308		4.81(2.31-6.93)		3369	
20 Perfluorononanoic acid										
463.00 > 419.00	3.002	3.017	-0.015	1.000	27381	0.0161			25.7	
463.00 > 169.00	3.010	3.017	-0.007	1.003	6127		4.47(1.90-5.69)		33.4	
D 21 13C8 FOSA										
506.00 > 78.00	3.357	3.354	0.003	1.278	4989033	2.64		106	31402	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.357	3.356	0.001	1.000	47181	0.0250			86.3	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.365	3.379	-0.014	1.000	9998	0.006820			24.5	
513.00 > 169.00	3.365	3.379	-0.014	1.000	2031		4.92(2.36-7.09)		34.1	
D 23 13C2 PFDA										
515.00 > 470.00	3.365	3.379	-0.014	1.281	3792446	3.46		139	51201	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.673	3.692	-0.019	1.000	14327	0.0147			7.2	
599.00 > 99.00	3.673	3.692	-0.019	1.000	6118		2.34(1.39-4.16)		30.5	
D 30 13C2 PFUnA										
565.00 > 520.00	3.691	3.709	-0.018	1.405	2782840	3.34		134	42035	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.691	3.711	-0.020	1.000	5571	0.005515			24.1	
563.00 > 169.00	3.691	3.711	-0.020	1.000	1874		2.97(0.00-0.00)		51.8	
D 36 13C2 PFDoA										
615.00 > 570.00	3.991	4.008	-0.017	1.519	2819781	3.17		127	38397	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.519	-0.018	1.714	3096056	3.21		128	28317	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 20-Dec-2017 11:59:10 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_009.d

Injection Date: 15-Dec-2017 21:21:18 Instrument ID: A8_N

Lims ID: 320-34256-A-4-A Lab Sample ID: 320-34256-4

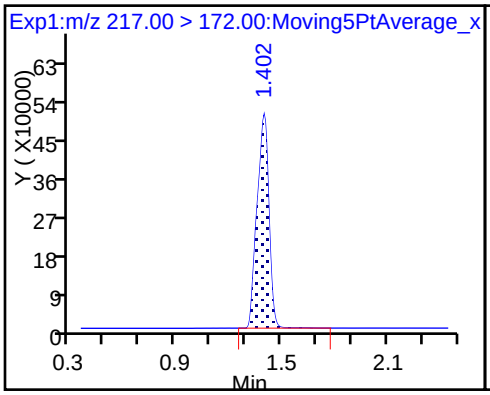
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Operator ID: SACINSTLCMS01 ALS Bottle#: 8 Worklist Smp#: 9

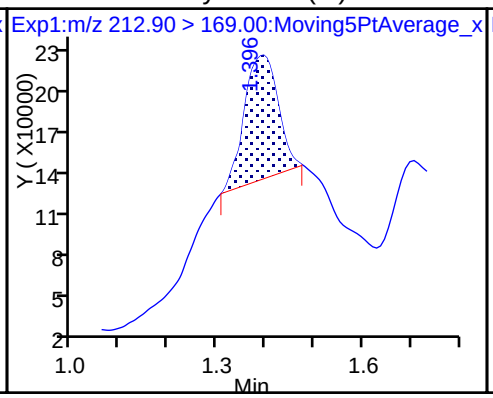
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

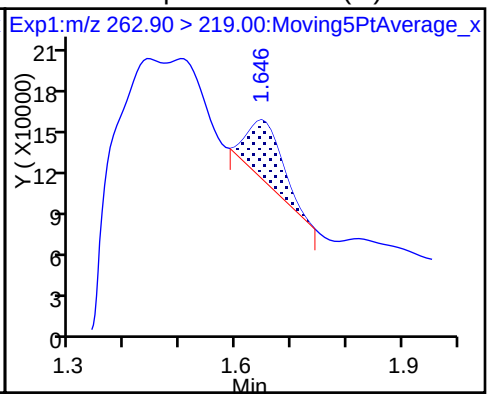
D 1 13C4 PFBA



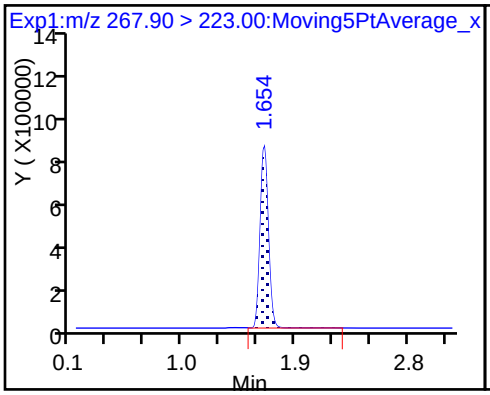
2 Perfluorobutyric acid (M)



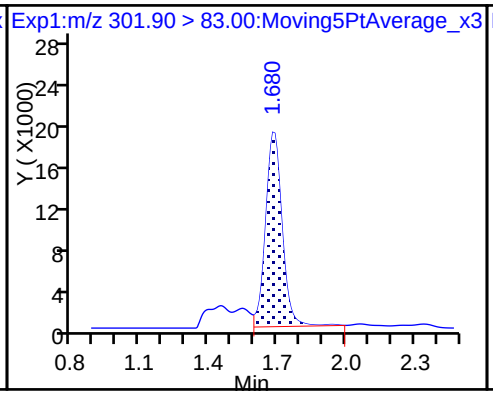
4 Perfluoropentanoic acid (M)



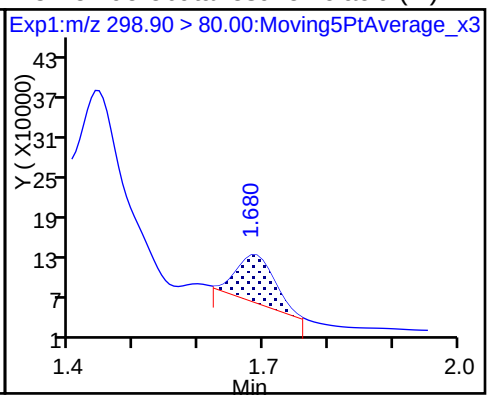
D 3 13C5-PFPeA



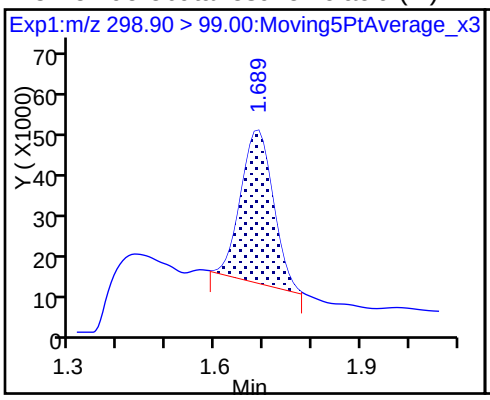
D 47 13C3-PFBS



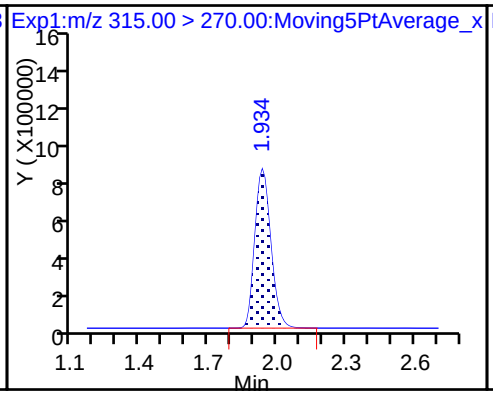
5 Perfluorobutanesulfonic acid (M)



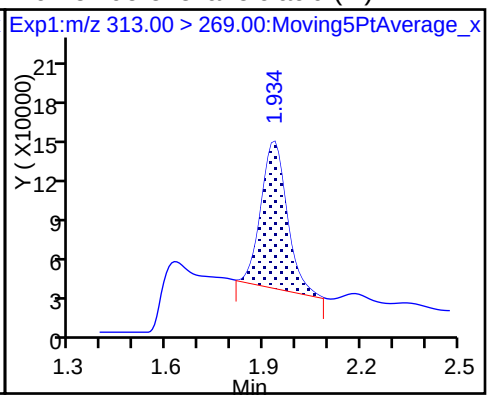
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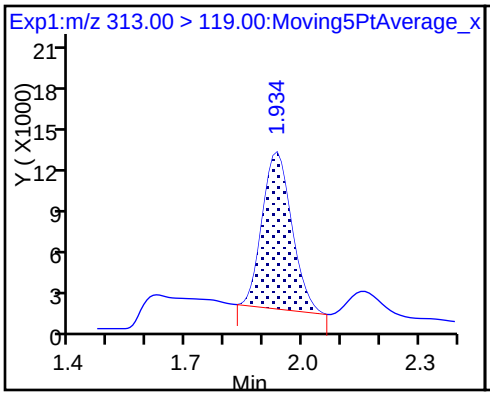
D 7 13C2 PFHxA



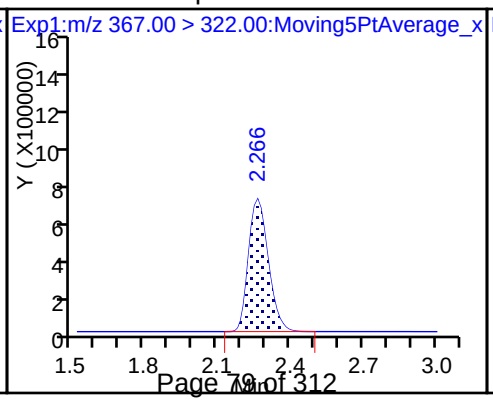
6 Perfluorohexanoic acid (M)



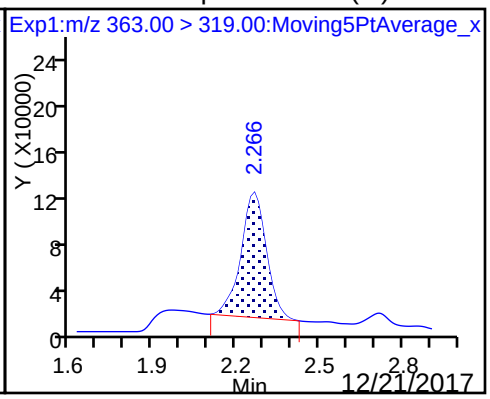
6 Perfluorohexanoic acid



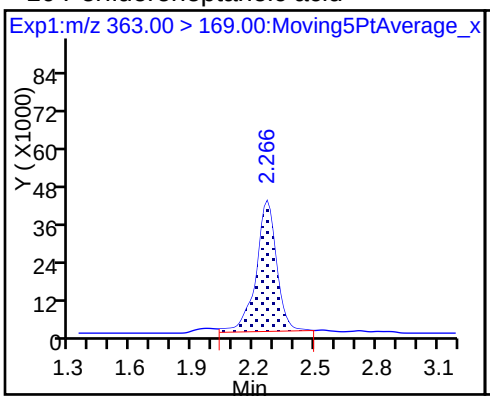
D 9 13C4-PFHpA



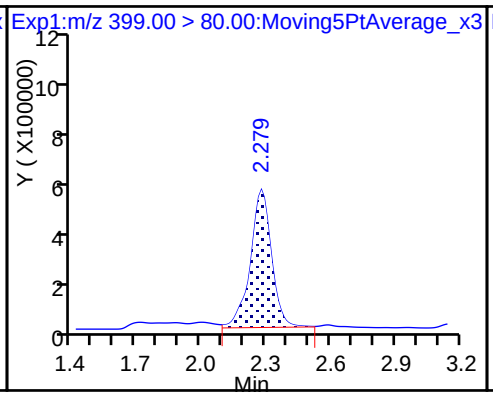
10 Perfluoroheptanoic acid (M)



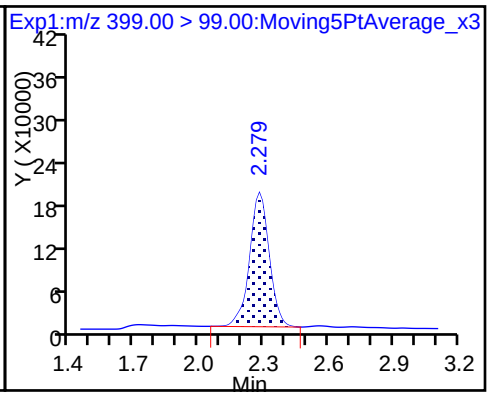
10 Perfluoroheptanoic acid



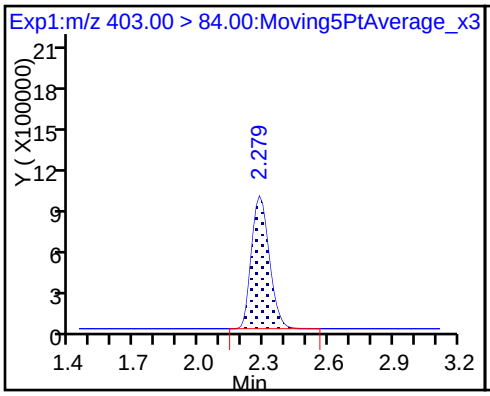
8 Perfluorohexanesulfonic acid



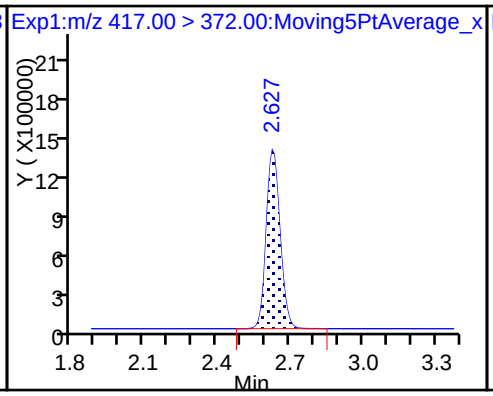
8 Perfluorohexanesulfonic acid



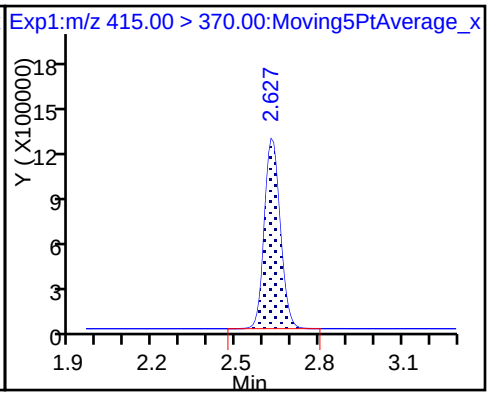
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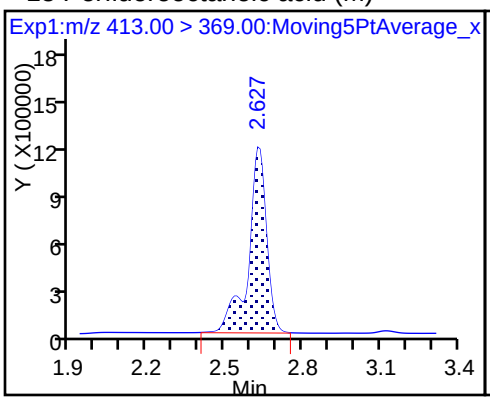
D 14 13C4 PFOA



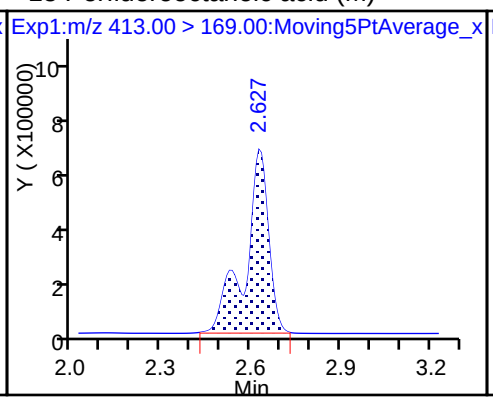
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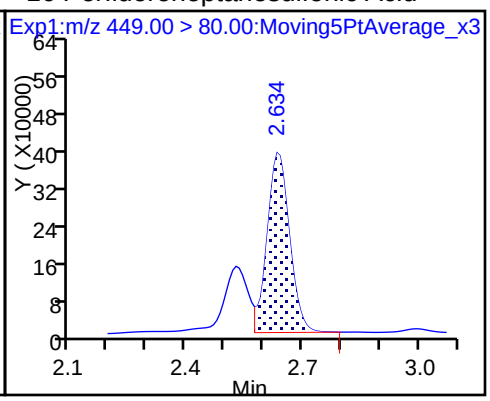
15 Perfluorooctanoic acid (M)



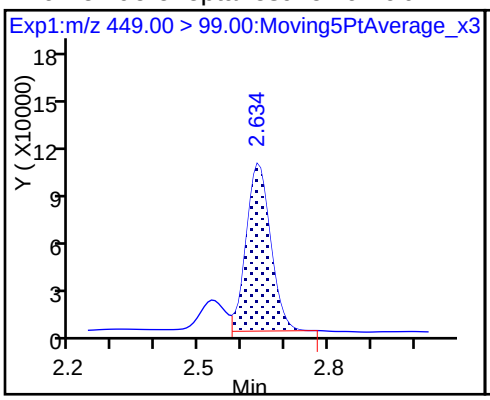
15 Perfluorooctanoic acid (M)



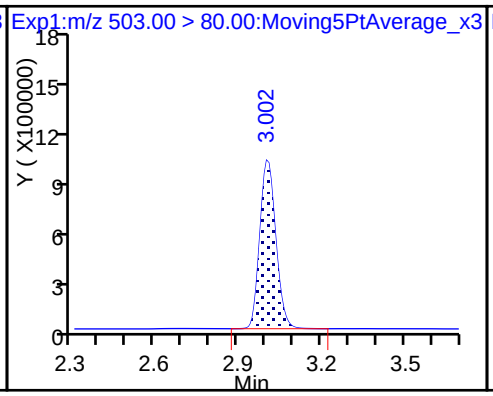
16 Perfluoroheptanesulfonic Acid



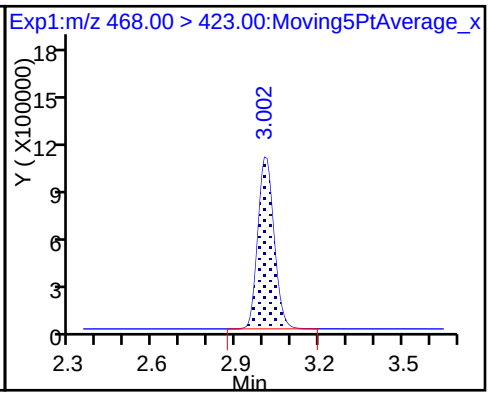
16 Perfluoroheptanesulfonic Acid



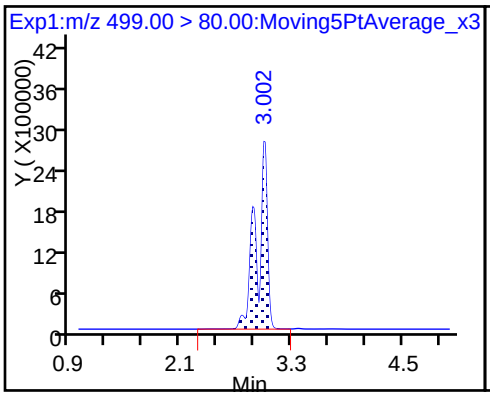
D 18 13C4 PFOS



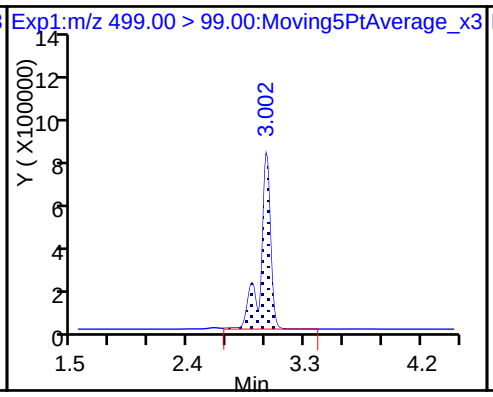
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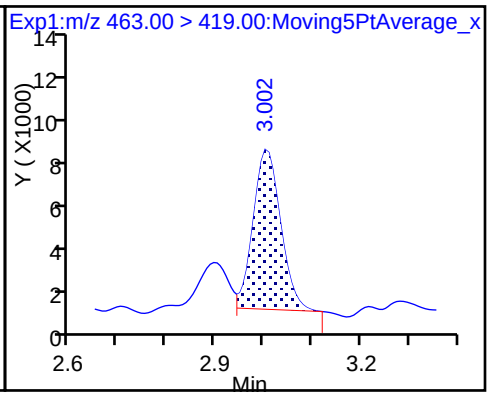
17 Perfluorooctane sulfonic acid



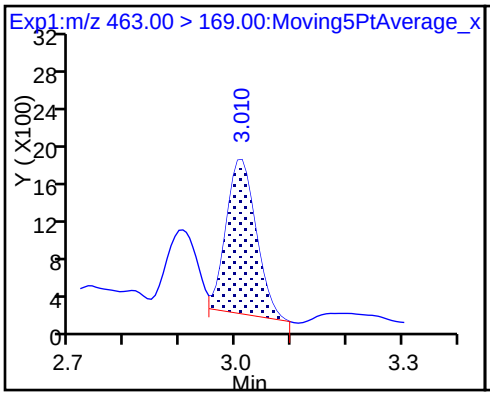
17 Perfluorooctane sulfonic acid



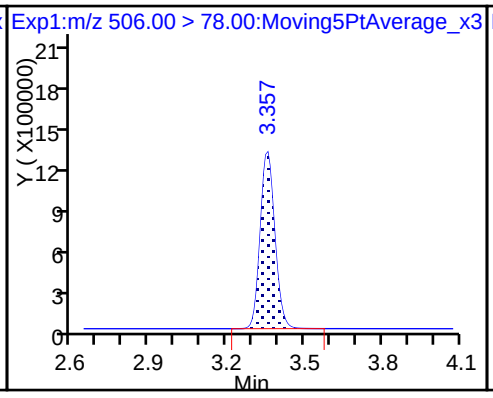
20 Perfluorononanoic acid



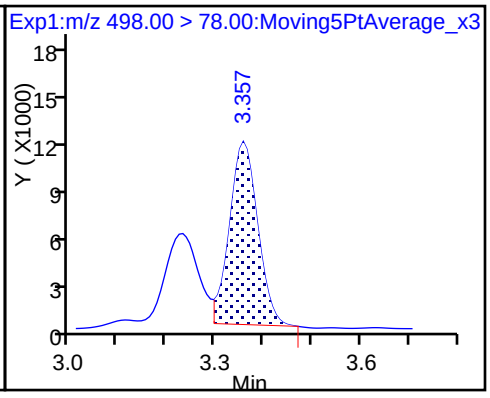
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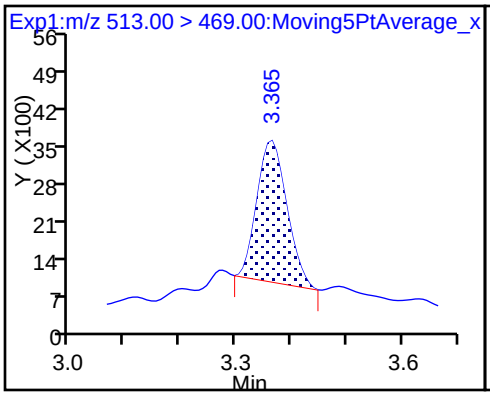
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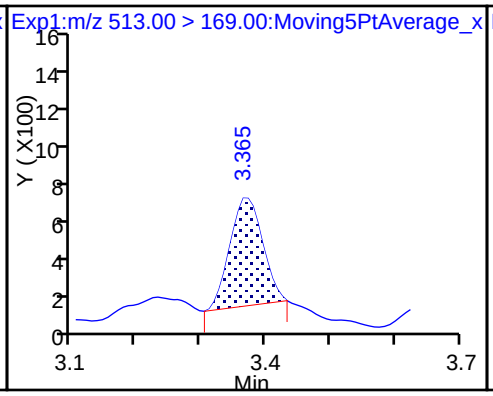
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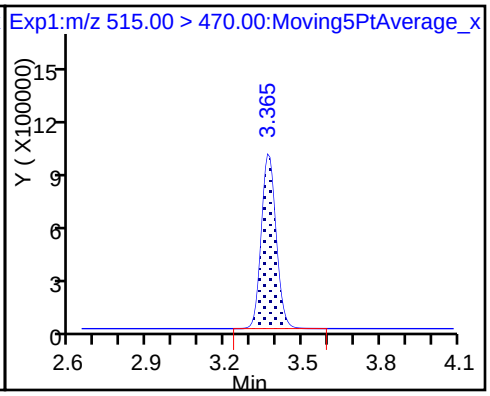
24 Perfluorodecanoic acid



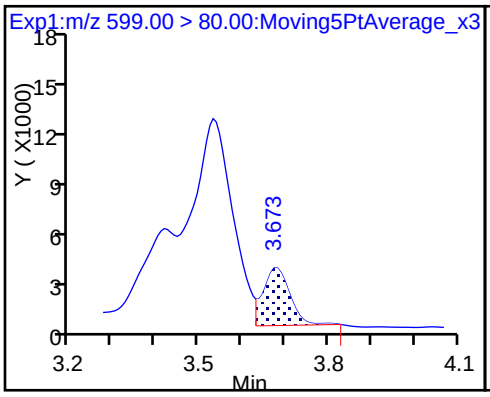
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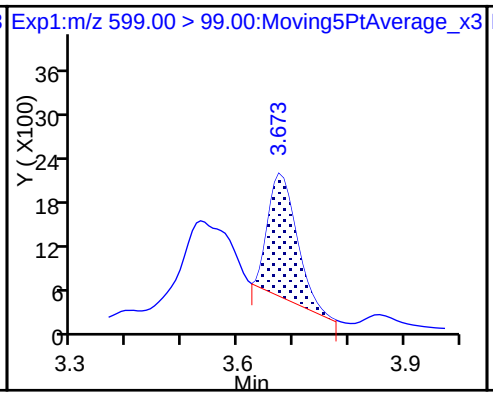
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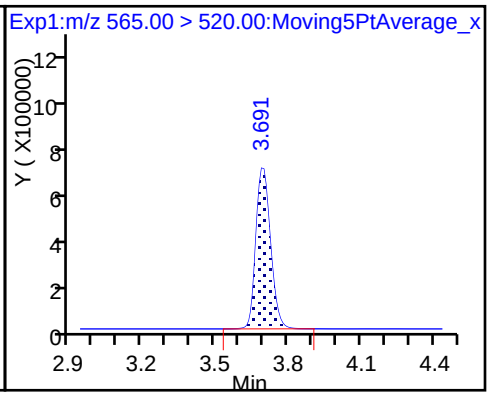
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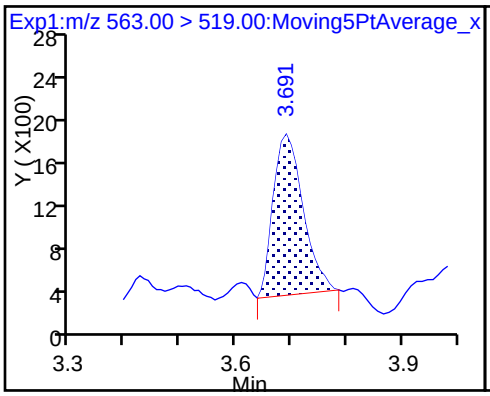
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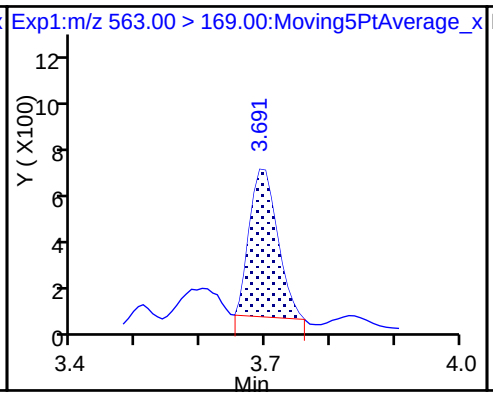
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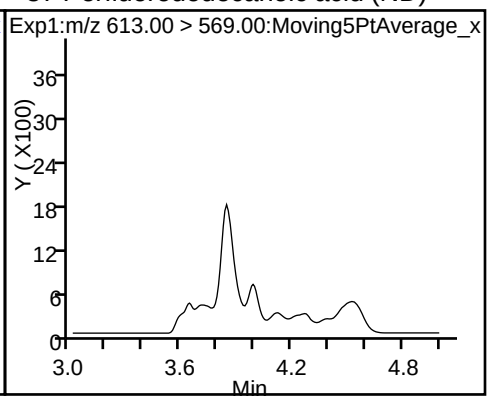
31 Perfluoroundecanoic acid



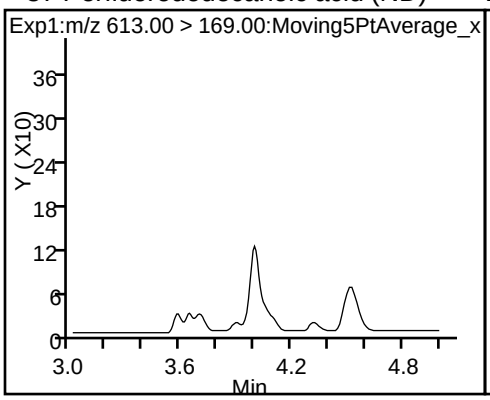
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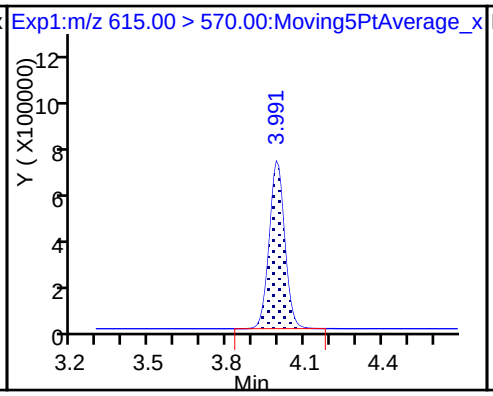
37 Perfluorododecanoic acid (ND)



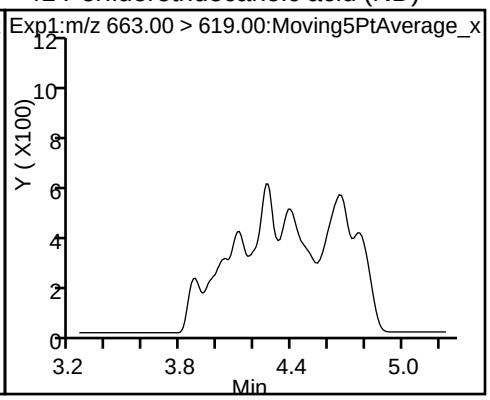
37 Perfluorododecanoic acid (ND)



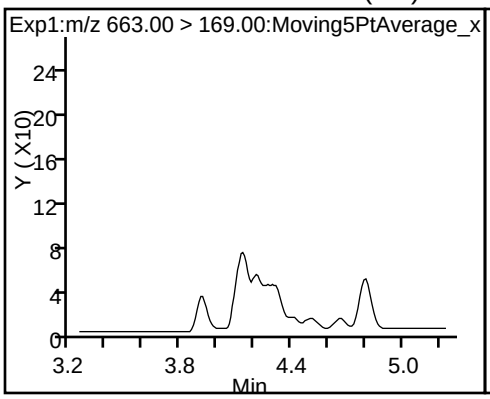
D 36 13C2 PFDoA



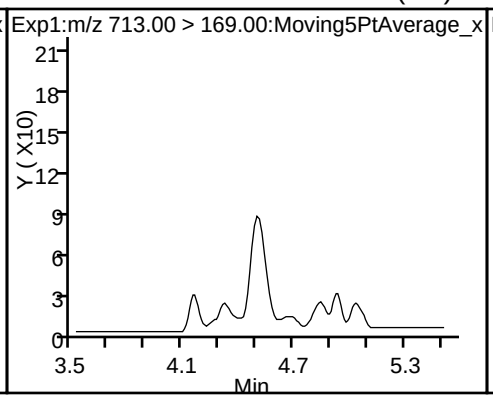
41 Perfluorotridecanoic acid (ND)



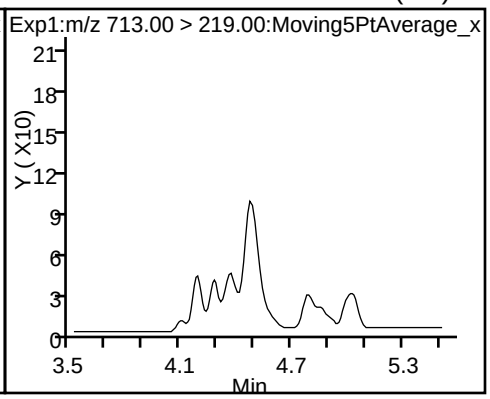
41 Perfluorotridecanoic acid (ND)



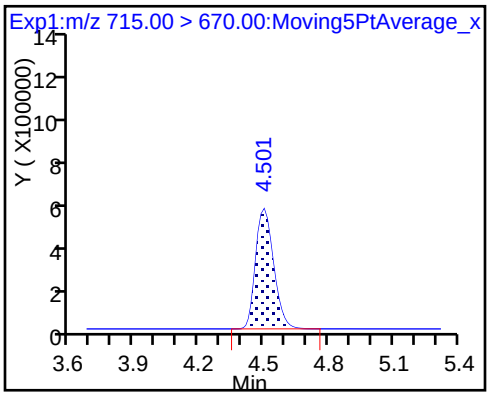
42 Perfluorotetradecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)



D 43 13C2-PFTeDA



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

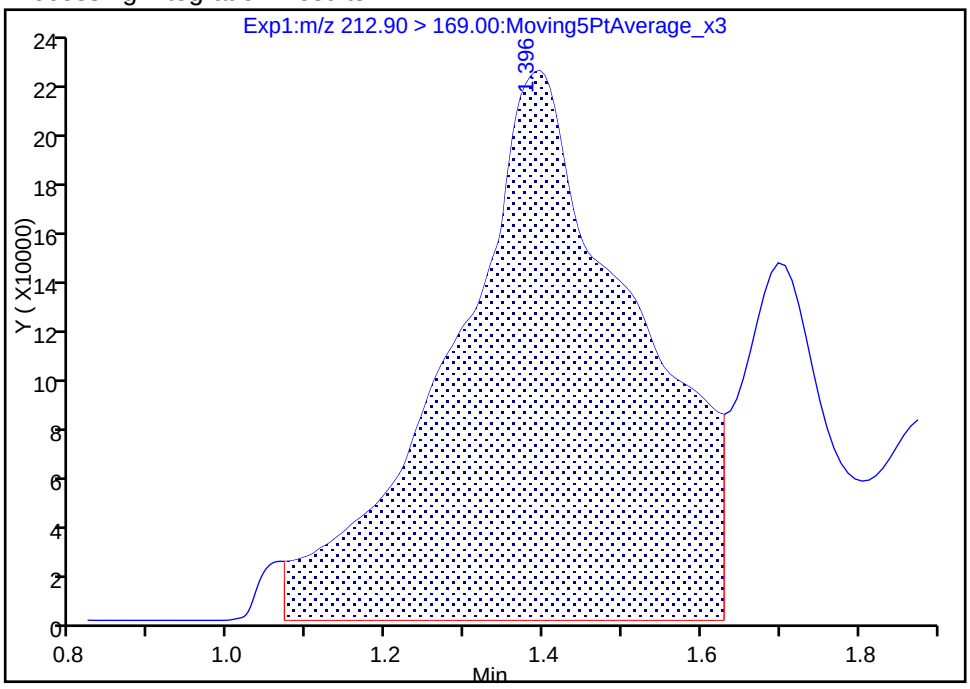
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Lims ID:	320-34256-A-4-A	Lab Sample ID:	320-34256-4		
Client ID:	NS-OW-36-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

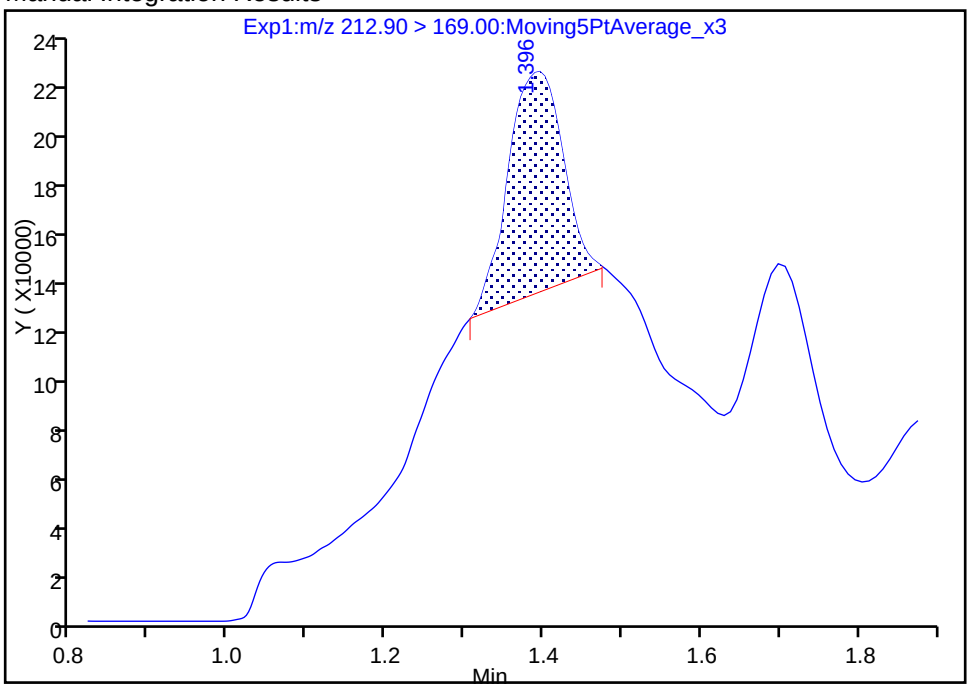
Processing Integration Results

RT: 1.40
Area: 3544447
Amount: 4.266191
Amount Units: ng/ml



Manual Integration Results

RT: 1.40
Area: 423975
Amount: 0.510308
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:51:53

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

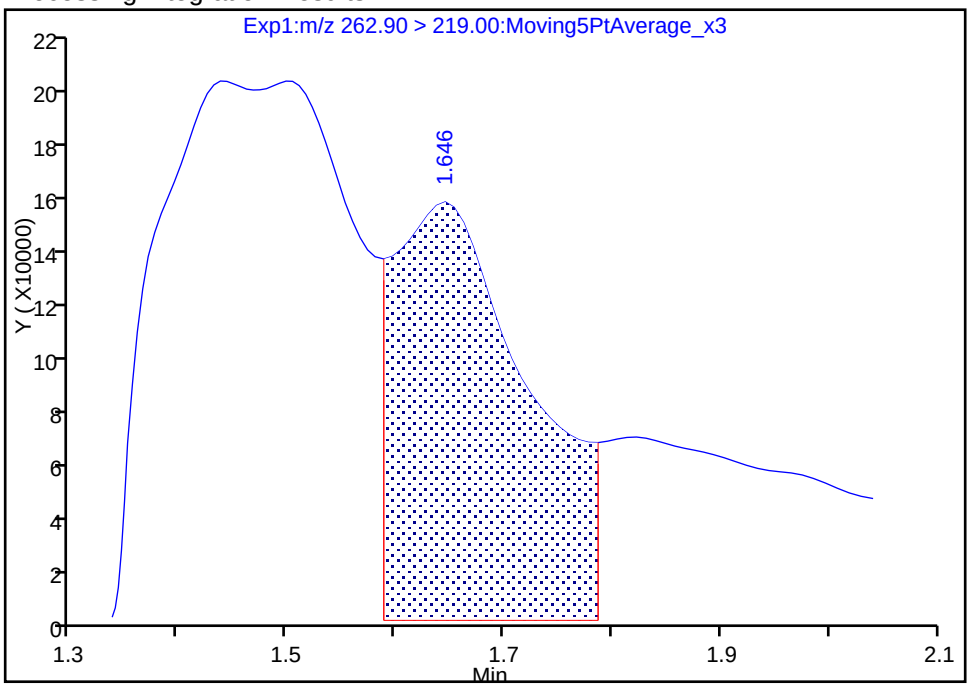
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_009.d				
Injection Date:	15-Dec-2017 21:21:18	Instrument ID:	A8_N		
Lims ID:	320-34256-A-4-A	Lab Sample ID:	320-34256-4		
Client ID:	NS-OW-36-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

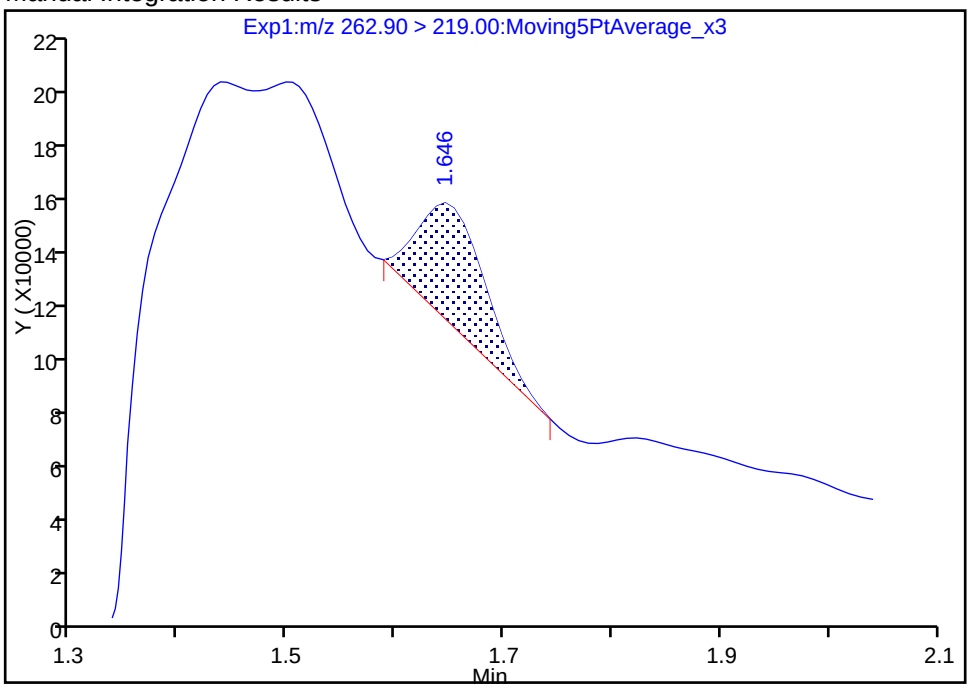
Processing Integration Results

RT: 1.65
Area: 1320165
Amount: 0.788576
Amount Units: ng/ml



Manual Integration Results

RT: 1.65
Area: 186849
Amount: 0.111611
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:53:08

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

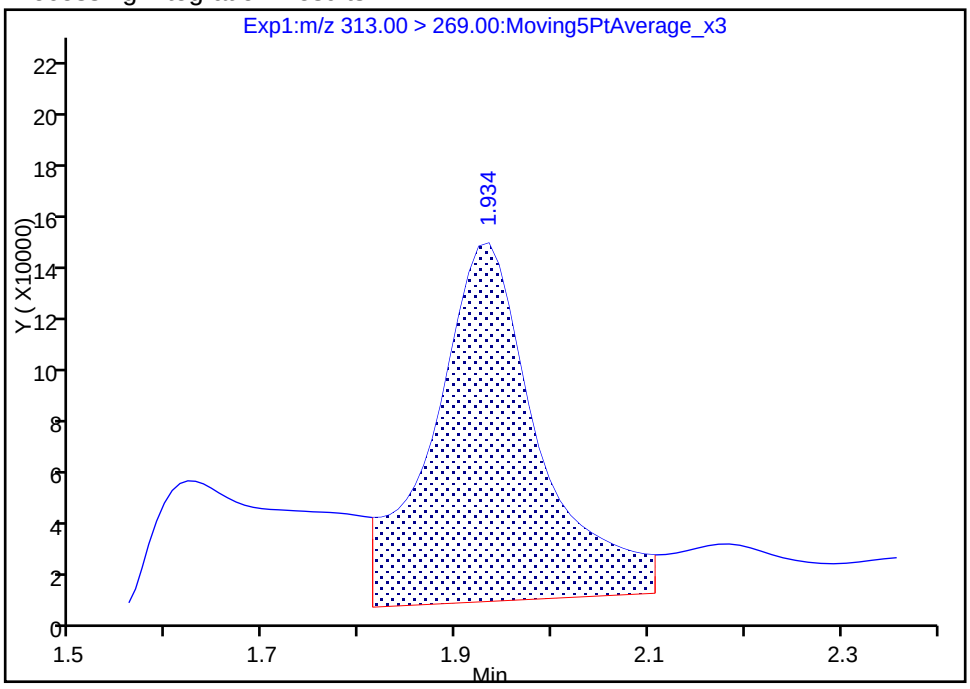
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_009.d				
Injection Date:	15-Dec-2017 21:21:18	Instrument ID:	A8_N		
Lims ID:	320-34256-A-4-A	Lab Sample ID:	320-34256-4		
Client ID:	NS-OW-36-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

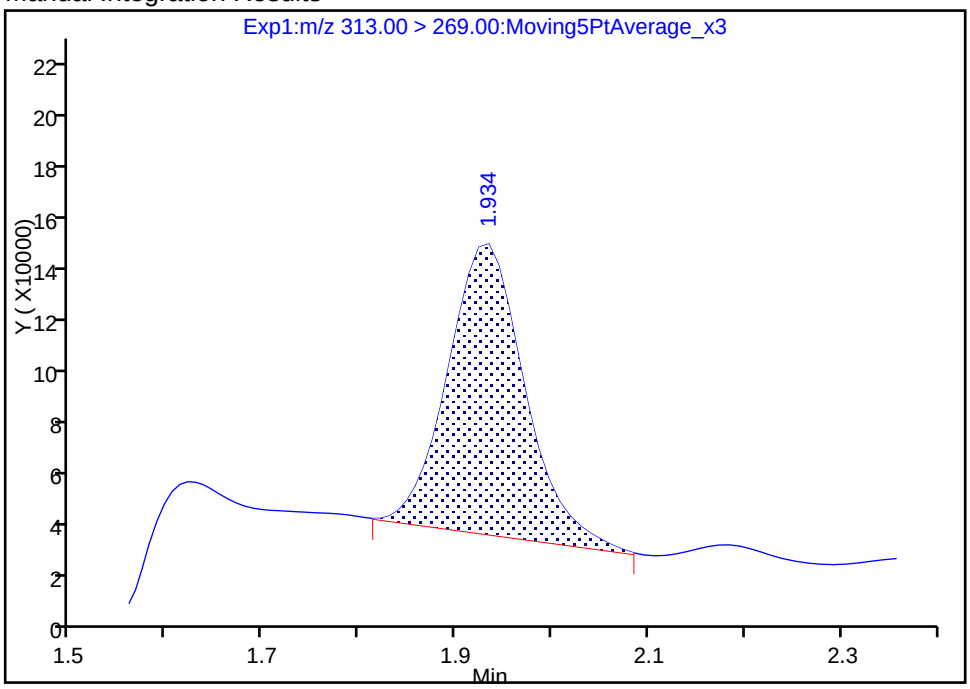
Processing Integration Results

RT: 1.93
Area: 1055349
Amount: 0.668554
Amount Units: ng/ml



Manual Integration Results

RT: 1.93
Area: 628570
Amount: 0.398193
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:53:44
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

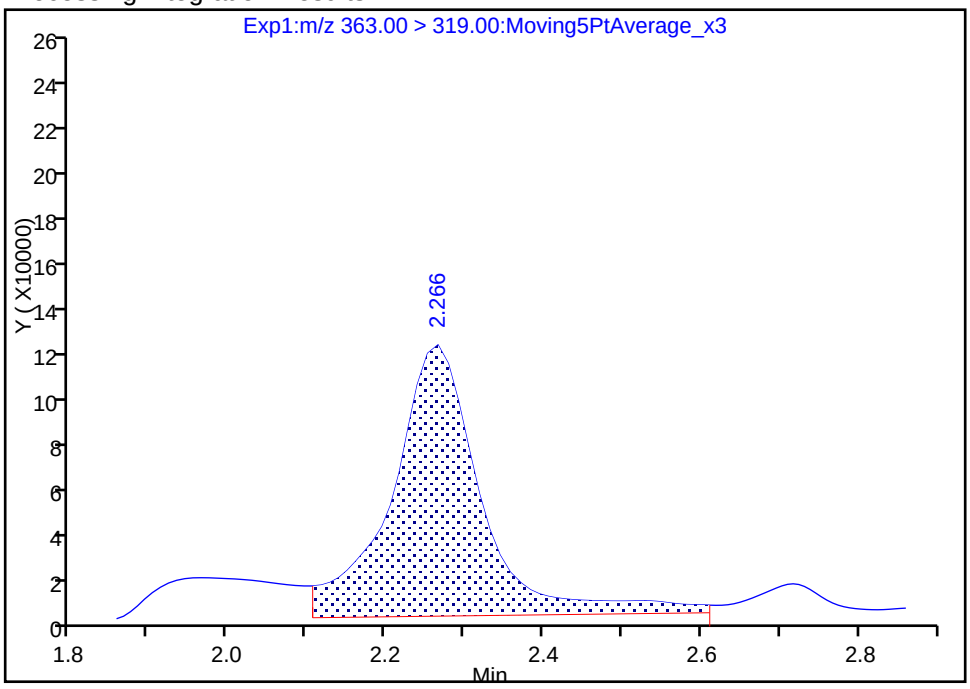
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_009.d				
Injection Date:	15-Dec-2017 21:21:18	Instrument ID:	A8_N		
Lims ID:	320-34256-A-4-A	Lab Sample ID:	320-34256-4		
Client ID:	NS-OW-36-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

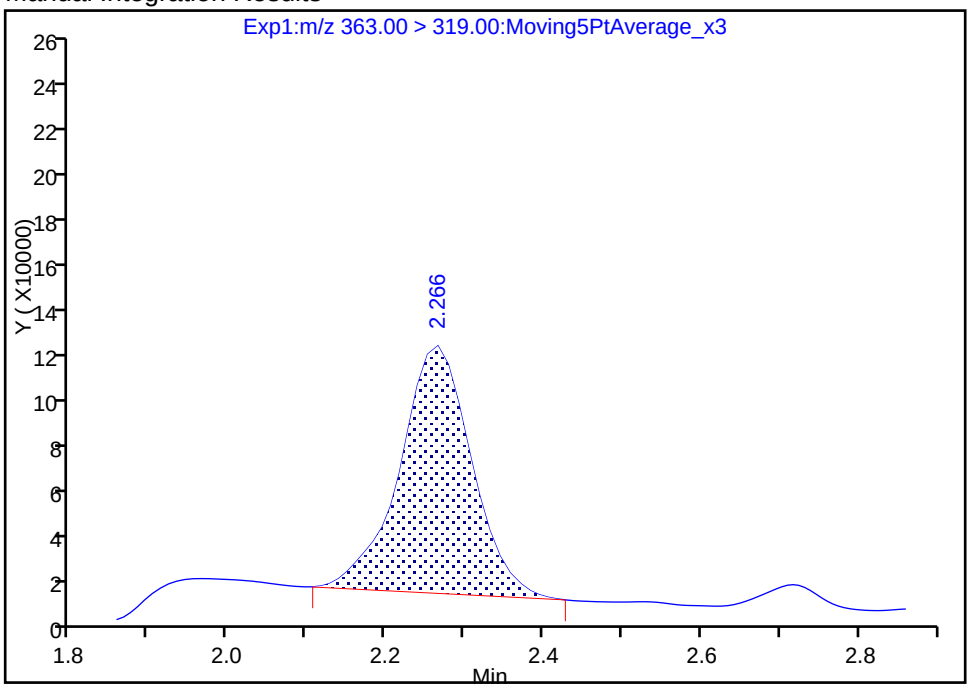
Processing Integration Results

RT: 2.27
Area: 924689
Amount: 0.553977
Amount Units: ng/ml



Manual Integration Results

RT: 2.27
Area: 674336
Amount: 0.403991
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:53:58
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

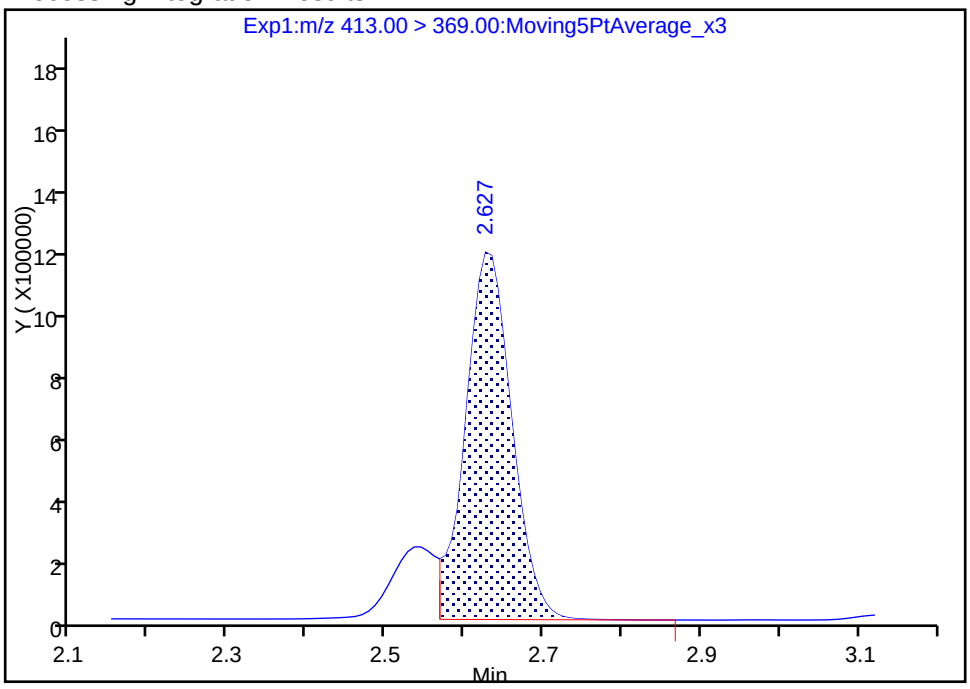
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_009.d				
Injection Date:	15-Dec-2017 21:21:18	Instrument ID:	A8_N		
Lims ID:	320-34256-A-4-A	Lab Sample ID:	320-34256-4		
Client ID:	NS-OW-36-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

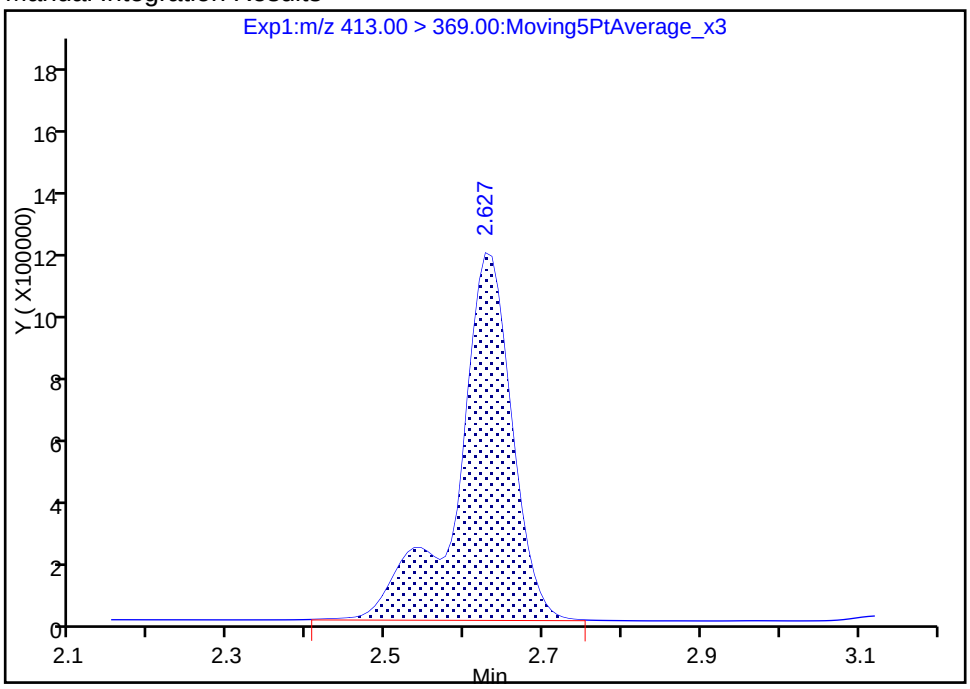
Processing Integration Results

RT: 2.63
Area: 4797568
Amount: 2.108145
Amount Units: ng/ml



Manual Integration Results

RT: 2.63
Area: 5702349
Amount: 2.505723
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:54:15
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento

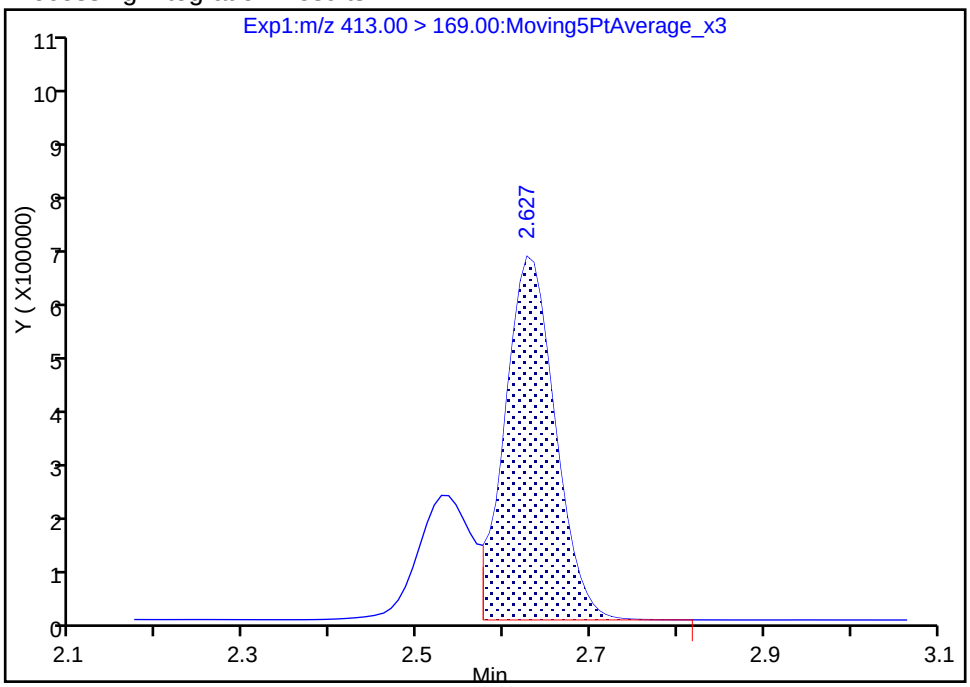
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_009.d				
Injection Date:	15-Dec-2017 21:21:18	Instrument ID:	A8_N		
Lims ID:	320-34256-A-4-A	Lab Sample ID:	320-34256-4		
Client ID:	NS-OW-36-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

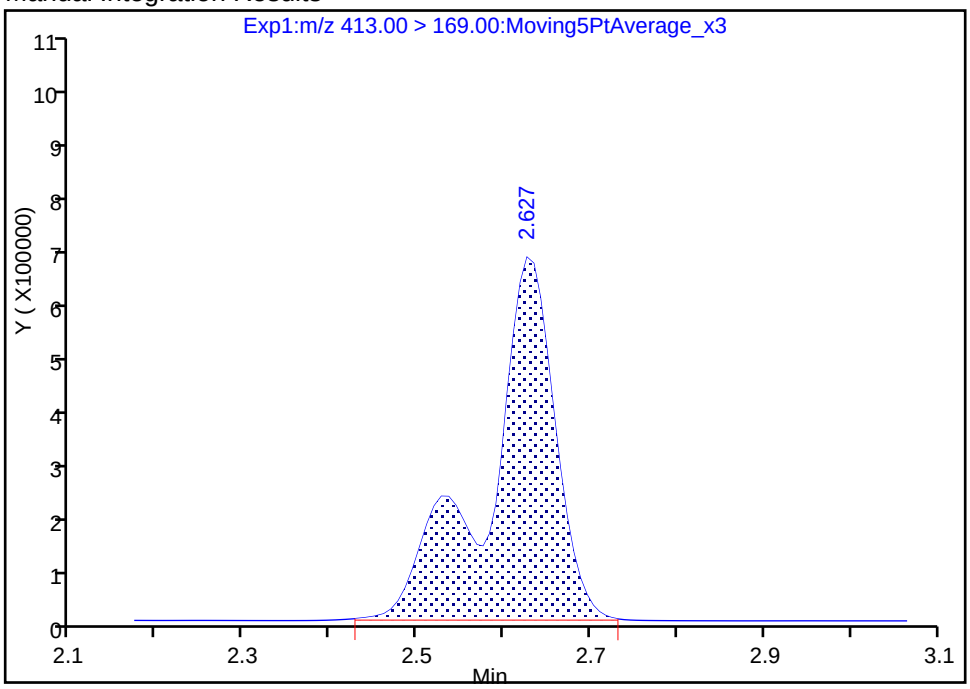
Processing Integration Results

RT: 2.63
Area: 2518722
Amount: 2.108145
Amount Units: ng/ml



Manual Integration Results

RT: 2.63
Area: 3421088
Amount: 2.505723
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:54:20
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento

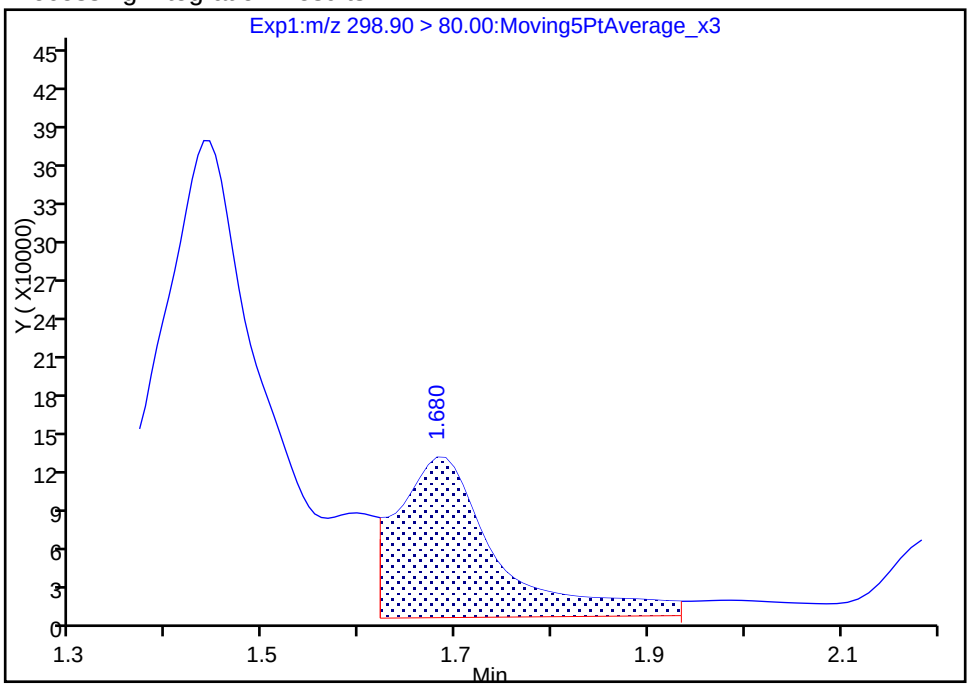
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_009.d				
Injection Date:	15-Dec-2017 21:21:18	Instrument ID:	A8_N		
Lims ID:	320-34256-A-4-A	Lab Sample ID:	320-34256-4		
Client ID:	NS-OW-36-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

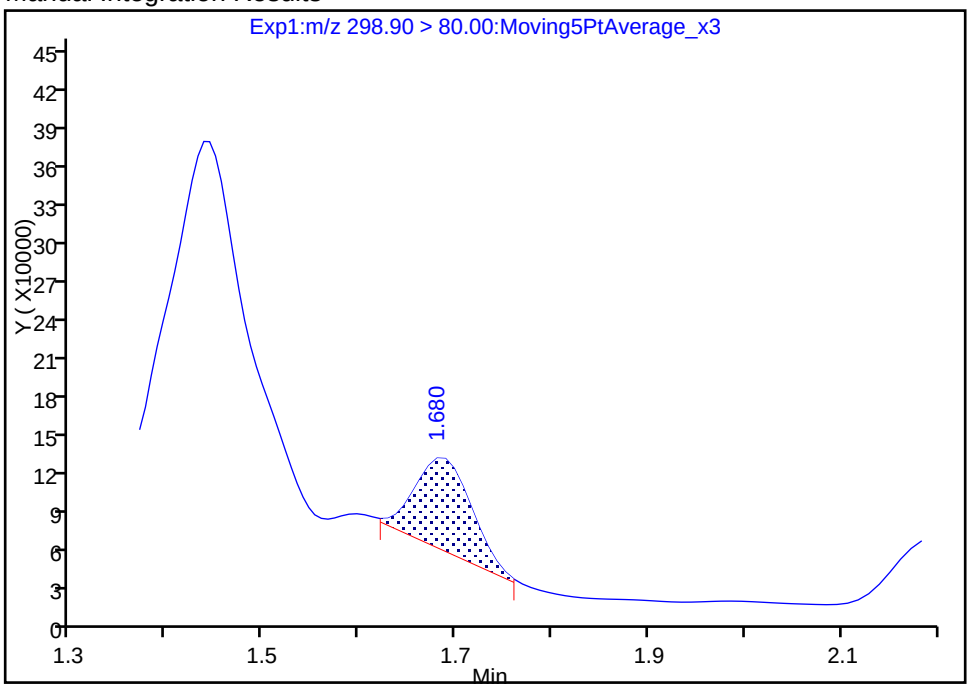
Processing Integration Results

RT: 1.68
Area: 890526
Amount: 0.305141
Amount Units: ng/ml



Manual Integration Results

RT: 1.68
Area: 293402
Amount: 0.100535
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:53:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

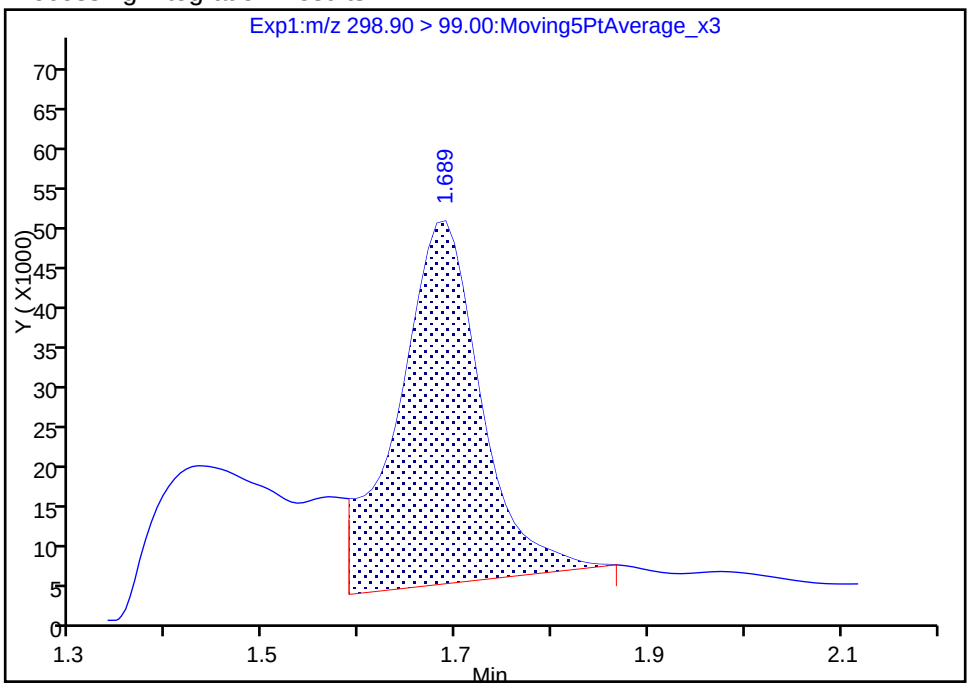
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_009.d				
Injection Date:	15-Dec-2017 21:21:18	Instrument ID:	A8_N		
Lims ID:	320-34256-A-4-A	Lab Sample ID:	320-34256-4		
Client ID:	NS-OW-36-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

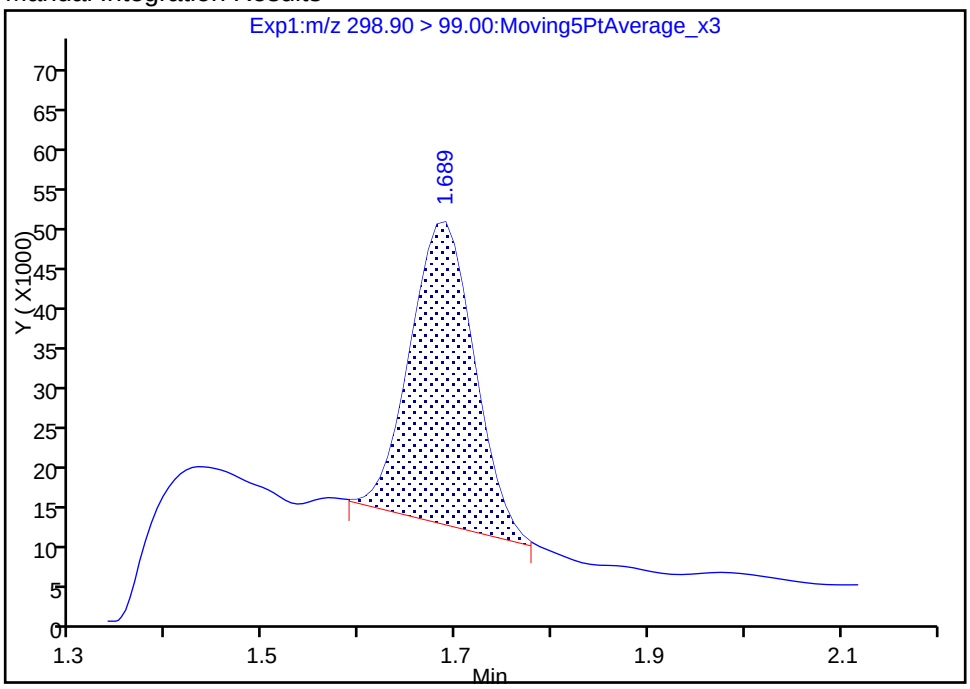
Processing Integration Results

RT: 1.69
Area: 274694
Amount: 0.305141
Amount Units: ng/ml



Manual Integration Results

RT: 1.69
Area: 177593
Amount: 0.100535
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:53:32
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-OWD-GW | Lab Sample ID: 320-34256-5

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_010.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 00:00

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 245(mL) | Date Analyzed: 12/15/2017 21:29

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	23		2.0	0.36
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.9		2.0	0.50
307-24-4	Perfluorohexanoic acid (PFHxA)	16		2.0	0.59
375-85-9	Perfluoroheptanoic acid (PFHpA)	16		2.0	0.26
335-67-1	Perfluorooctanoic acid (PFOA)	110		2.0	0.87
375-95-1	Perfluorononanoic acid (PFNA)	0.74	J	2.0	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.32
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.56
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.30
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.7		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	59	B	2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	25		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	500		2.0	0.55
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.76	J	2.0	0.33
754-91-6	Perfluorooctane Sulfonamide (FOSA)	0.81	J	2.0	0.36

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-OWD-GW | Lab Sample ID: 320-34256-5

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_010.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 00:00

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 245(mL) | Date Analyzed: 12/15/2017 21:29

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	33		25-150
STL01893	13C5 PFPeA	87		25-150
STL00993	13C2 PFHxA	92		25-150
STL01892	13C4-PFHpA	98		25-150
STL00990	13C4 PFOA	104		25-150
STL00995	13C5 PFNA	128		25-150
STL00996	13C2 PFDA	147		25-150
STL00997	13C2 PFUnA	135		25-150
STL00998	13C2 PFDoA	130		25-150
STL02116	13C2-PFTeDA	134		25-150
STL02337	13C3-PFBS	107		25-150
STL00994	18O2 PFHxS	119		25-150
STL00991	13C4 PFOS	126		25-150
STL01056	13C8 FOSA	112		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_010.d
Lims ID: 320-34256-A-5-A
Client ID: NS-OWD-GW
Sample Type: Client
Inject. Date: 15-Dec-2017 21:29:11 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-34256-a-5-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 20-Dec-2017 12:01:40 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK050

First Level Reviewer: hannigana Date: 20-Dec-2017 12:01:40

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.401	1.406	-0.005	0.534	2323634	0.8220		32.9	6308	
2 Perfluorobutyric acid										M
212.90 > 169.00	1.395	1.408	-0.013	0.996	468604	0.5591			4.9	M
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.644	1.656	-0.012	0.995	195266	0.1211			3.9	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.652	1.656	-0.004	0.630	3623120	2.18		87.0	12772	
D 47 13C3-PFBS										
301.90 > 83.00	1.688	1.690	-0.002	0.643	89072	2.49		107	184	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	1.688	1.692	-0.004	1.000	257970	0.0918			5.9	M
298.90 > 99.00	1.688	1.692	-0.004	1.000	178515		1.45(1.25-3.74)		37.1	M
D 7 13C2 PFHxA										
315.00 > 270.00	1.933	1.938	-0.005	0.737	4012167	2.31		92.3	27854	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.933	1.939	-0.006	1.000	616469	0.3895			38.6	M
313.00 > 119.00	1.933	1.939	-0.006	1.000	60675		10.16(5.03-15.10)		77.4	M
D 9 13C4-PFHpA										
367.00 > 322.00	2.264	2.272	-0.008	0.863	4009122	2.46		98.3	27519	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	2.264	2.273	-0.009	1.000	632367	0.3804			86.7	M
363.00 > 169.00	2.264	2.273	-0.009	1.000	285200		2.22(1.13-3.40)		491	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.278	2.285	-0.007	1.000	3872641	1.45			219	
399.00 > 99.00	2.278	2.285	-0.007	1.000	1218562		3.18(1.50-4.49)		318	
D 11 18O2 PFHxS										
403.00 > 84.00	2.278	2.286	-0.008	0.868	5717599	2.81		119	32762	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C4 PFOA										
417.00 > 372.00	2.623	2.637	-0.014	1.000	5148819	2.61		104	48812	
* 62 13C2-PFOA										
415.00 > 370.00	2.623	2.638	-0.015		4830790	2.50			41549	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.623	2.640	-0.017	1.000	5694350	2.60			1275	M
413.00 > 169.00	2.623	2.640	-0.017	1.000	3418923		1.67(0.84-2.52)		3561	M
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.630	2.644	-0.014	1.000	1474437	0.6197			160	
449.00 > 99.00	2.630	2.644	-0.014	1.000	418177		3.53(1.94-5.82)		274	
D 18 13C4 PFOS										
503.00 > 80.00	3.001	3.014	-0.013	1.144	3856227	3.01		126	4858	
D 19 13C5 PFNA										
468.00 > 423.00	3.001	3.015	-0.014	1.144	4175501	3.20		128	40640	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.001	3.015	-0.014	1.000	20833448	12.1			6415	
499.00 > 99.00	3.001	3.015	-0.014	1.000	4410368		4.72(2.31-6.93)		3237	
20 Perfluorononanoic acid										
463.00 > 419.00	3.001	3.017	-0.016	1.000	30277	0.0182			28.5	
463.00 > 169.00	3.001	3.017	-0.016	1.000	5536		5.47(1.90-5.69)		34.9	
D 21 13C8 FOSA										
506.00 > 78.00	3.355	3.354	0.001	1.279	5130837	2.79		112	24053	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.355	3.356	-0.001	1.000	38576	0.0199			74.2	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.362	3.379	-0.017	1.000	10109	0.006678			28.2	
513.00 > 169.00	3.362	3.379	-0.017	1.000	1636		6.18(2.36-7.09)		22.1	
D 23 13C2 PFDA										
515.00 > 470.00	3.362	3.379	-0.017	1.282	3915922	3.68		147	48298	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.671	3.692	-0.021	1.000	17934	0.0187			9.4	
599.00 > 99.00	3.671	3.692	-0.021	1.000	5164		3.47(1.39-4.16)		25.5	
D 30 13C2 PFUnA										
565.00 > 520.00	3.695	3.709	-0.014	1.409	2725079	3.37		135	51239	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.687	3.711	-0.024	0.998	7512	0.007594			27.2	
563.00 > 169.00	3.704	3.711	-0.007	1.002	1119		6.71(0.00-0.00)		15.3	
D 36 13C2 PFDoA										
615.00 > 570.00	3.995	4.008	-0.013	1.523	2809063	3.25		130	62177	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.499	4.519	-0.020	1.715	3153642	3.36		134	28974	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 20-Dec-2017 12:01:41 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_010.d

Injection Date: 15-Dec-2017 21:29:11 Instrument ID: A8_N

Lims ID: 320-34256-A-5-A Lab Sample ID: 320-34256-5

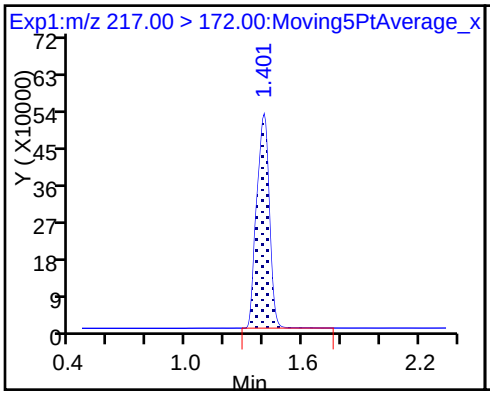
Client ID: NS-OWD-GW

Operator ID: SACINSTLCMS01 ALS Bottle#: 9 Worklist Smp#: 10

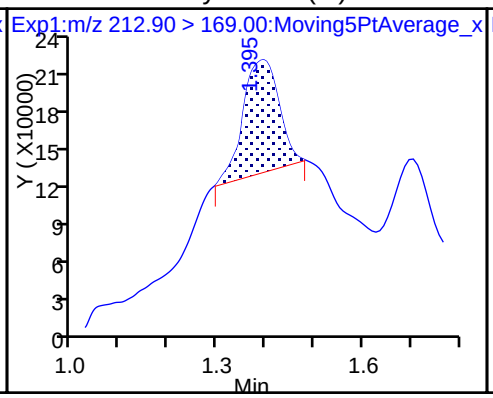
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

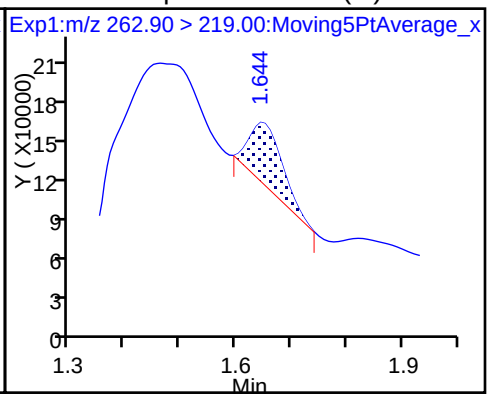
D 1 13C4 PFBA



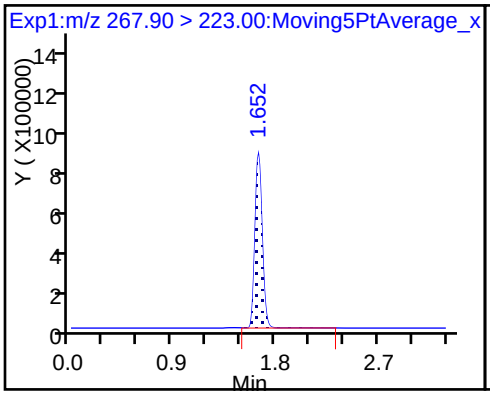
2 Perfluorobutyric acid (M)



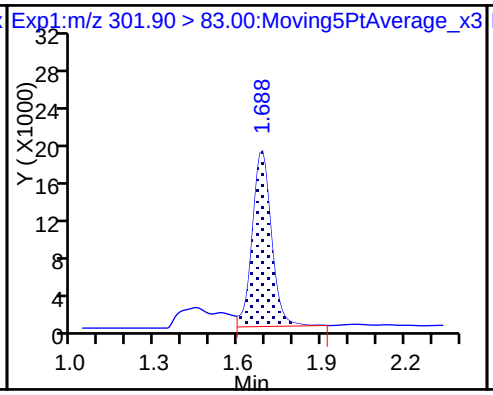
4 Perfluoropentanoic acid (M)



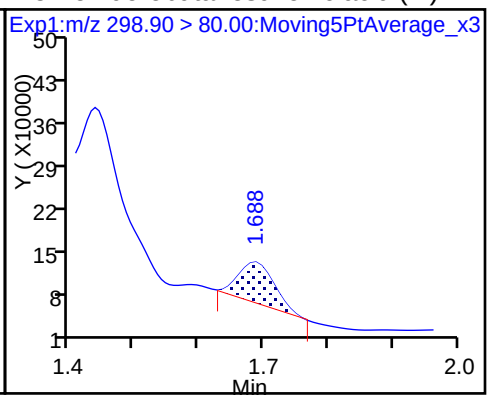
D 3 13C5-PFPeA



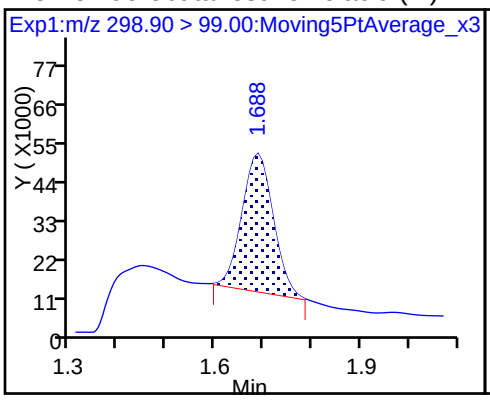
D 47 13C3-PFBS



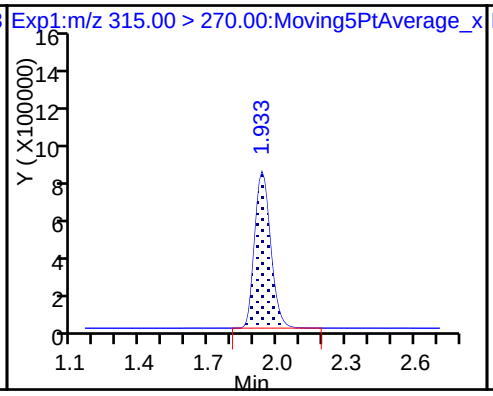
5 Perfluorobutanesulfonic acid (M)



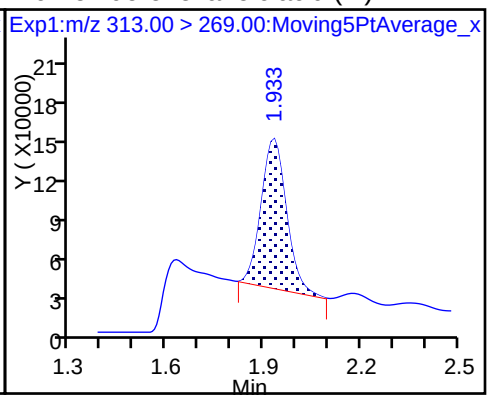
5 Perfluorobutanesulfonic acid (M)



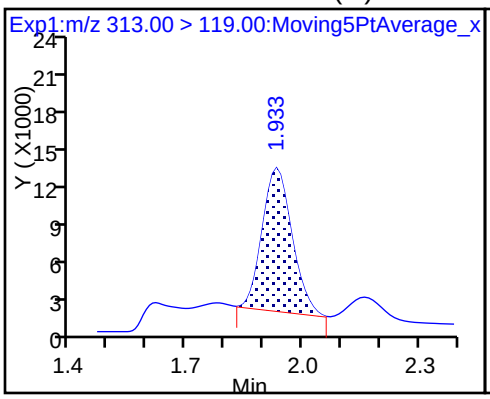
D 7 13C2 PFHxA



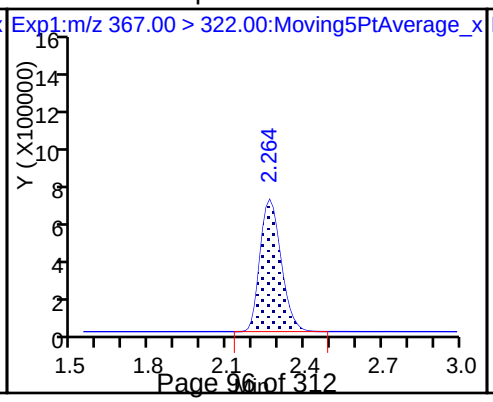
6 Perfluorohexanoic acid (M)



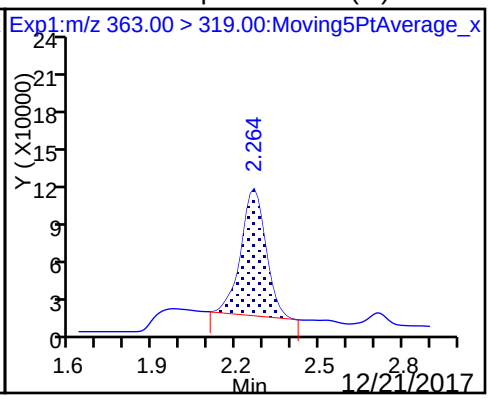
6 Perfluorohexanoic acid (M)



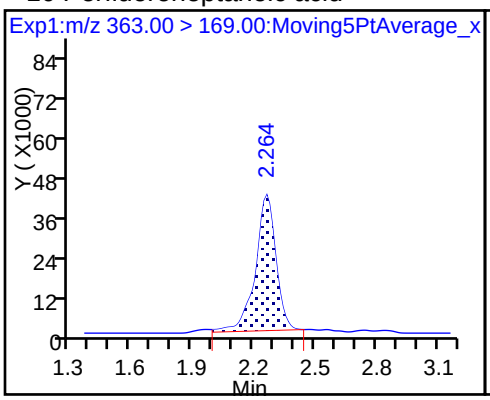
D 9 13C4-PFHpA



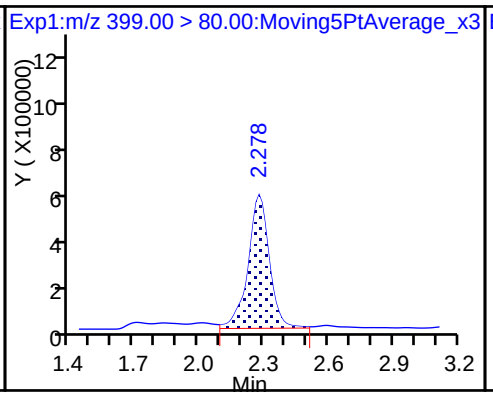
10 Perfluoroheptanoic acid (M)



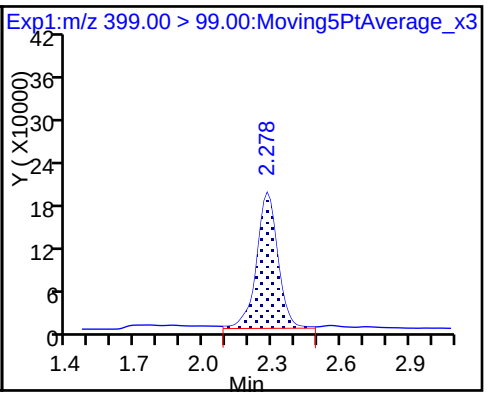
10 Perfluoroheptanoic acid



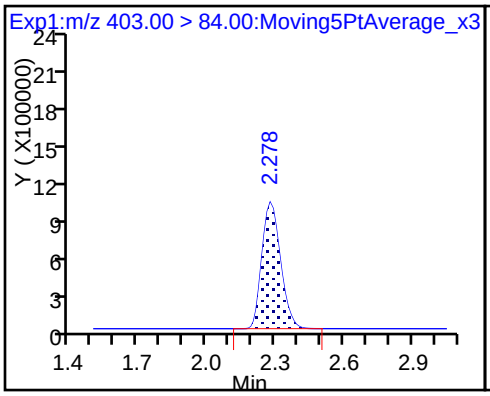
8 Perfluorohexanesulfonic acid



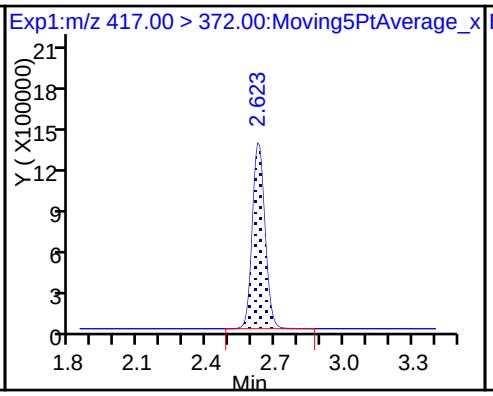
8 Perfluorohexanesulfonic acid



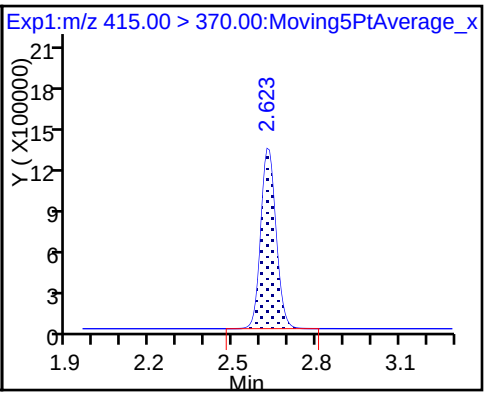
D 11 18O2 PFHxS



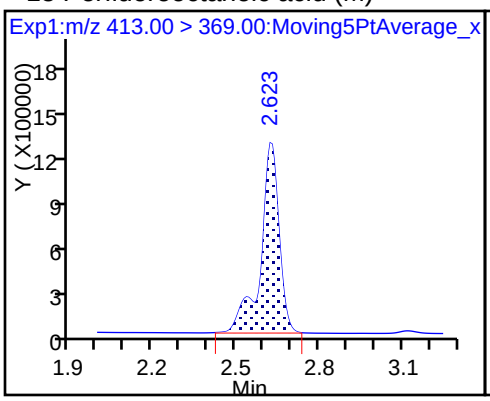
D 14 13C4 PFOA



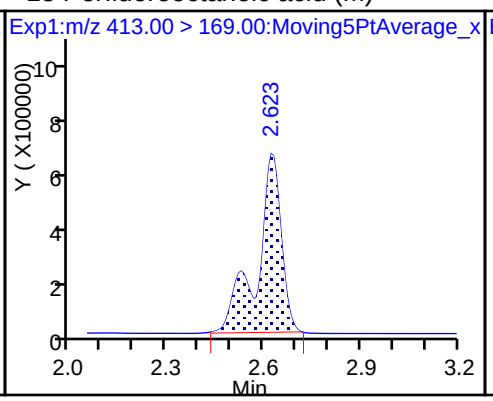
* 62 13C2-PFOA



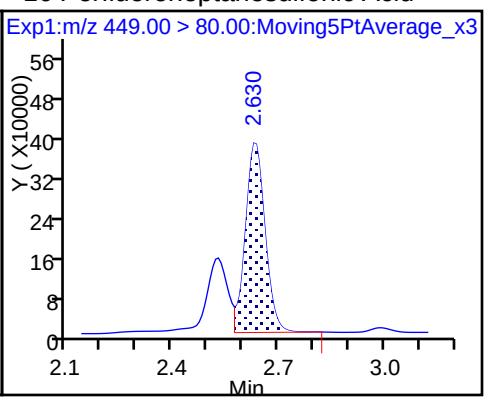
15 Perfluorooctanoic acid (M)



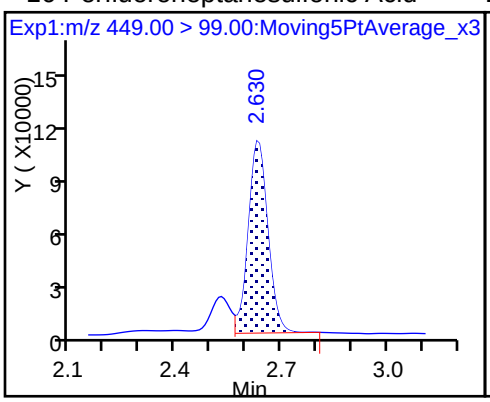
15 Perfluorooctanoic acid (M)



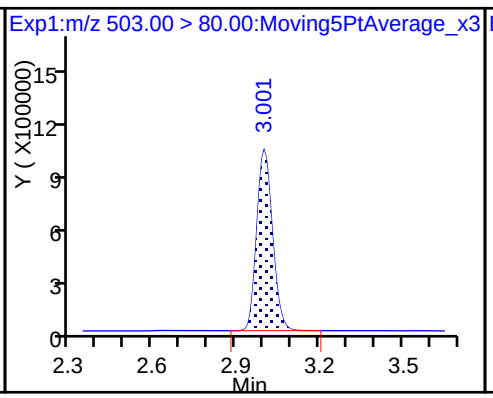
16 Perfluoroheptanesulfonic Acid



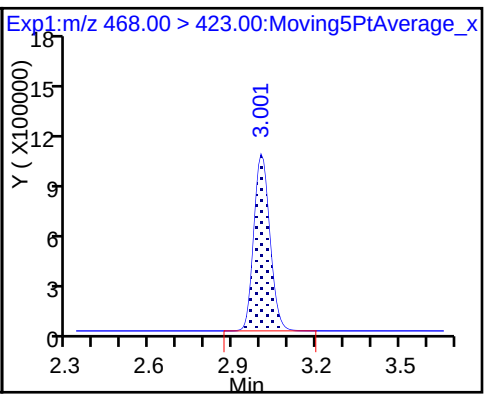
16 Perfluoroheptanesulfonic Acid



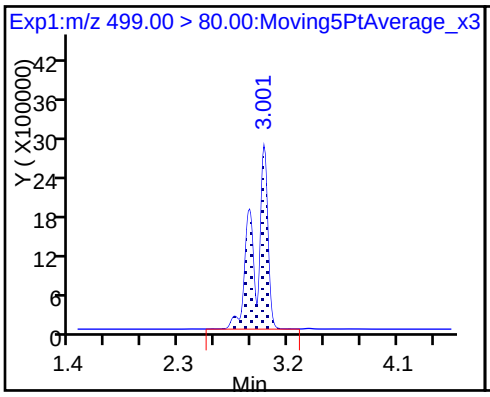
D 18 13C4 PFOS



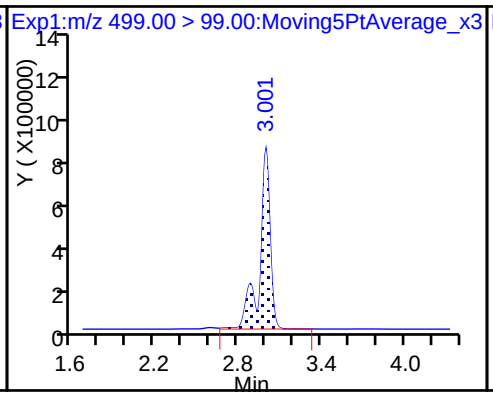
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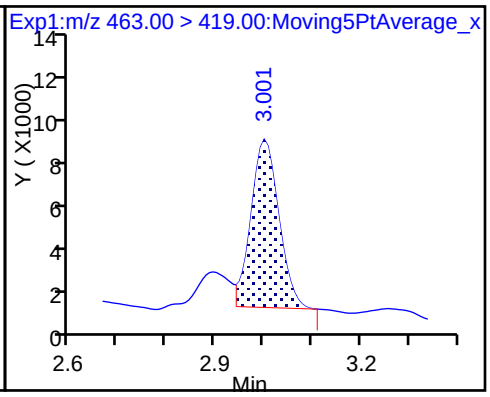
17 Perfluorooctane sulfonic acid



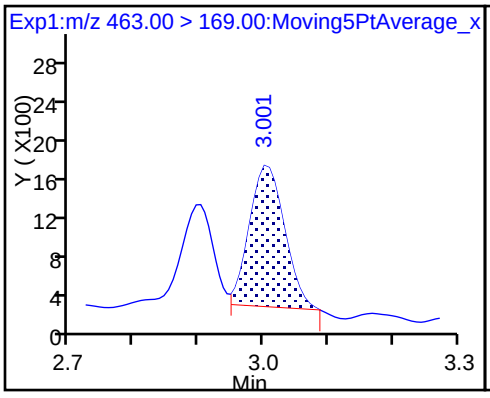
17 Perfluorooctane sulfonic acid



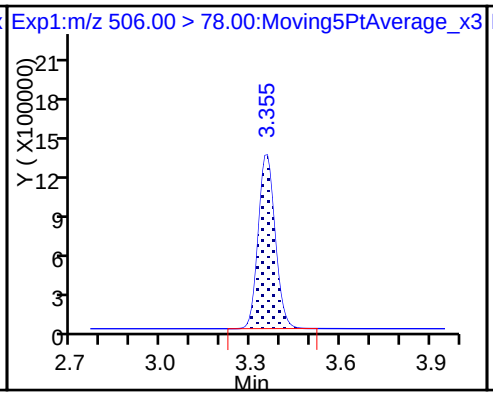
20 Perfluorononanoic acid



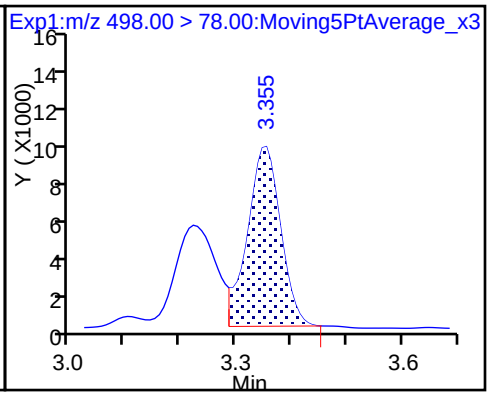
20 Perfluorononanoic acid



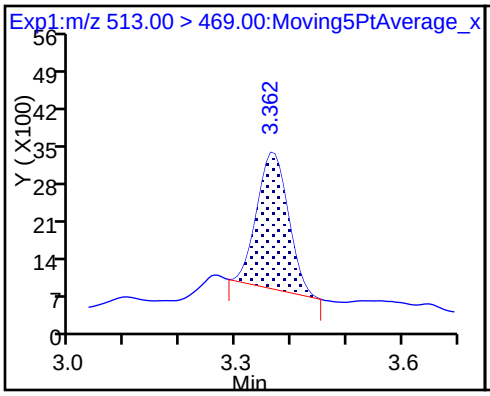
D 21 13C8 FOSA



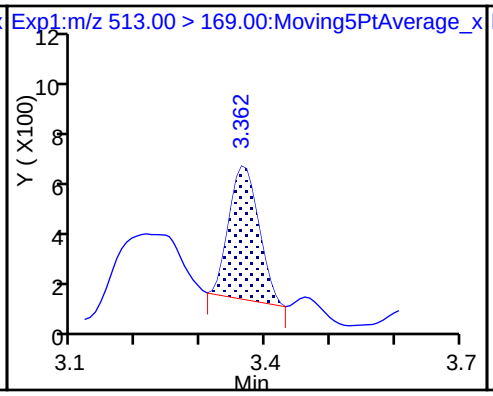
22 Perfluorooctane Sulfonamide



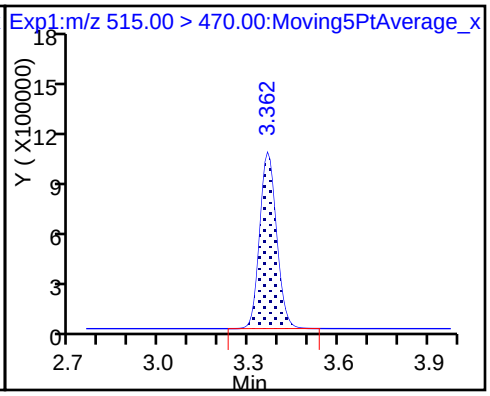
24 Perfluorodecanoic acid



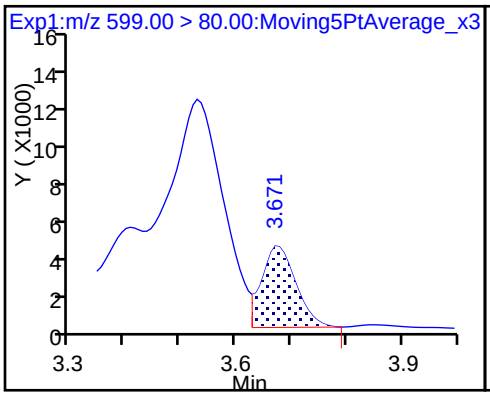
24 Perfluorodecanoic acid



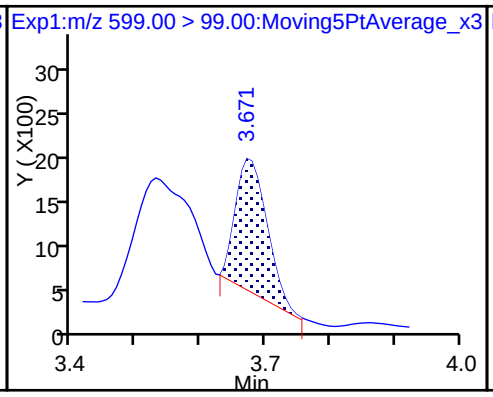
D 23 13C2 PFDA



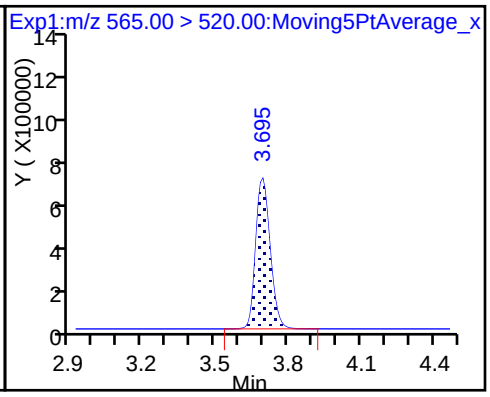
29 Perfluorodecane Sulfonic acid



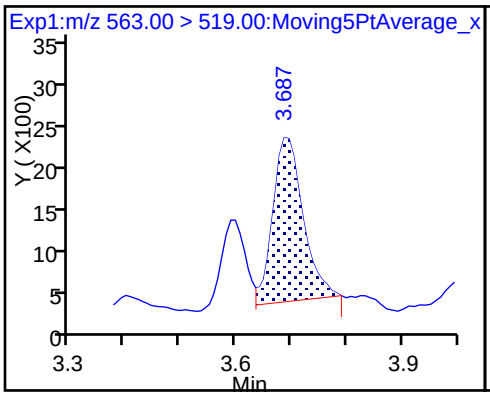
29 Perfluorodecane Sulfonic acid



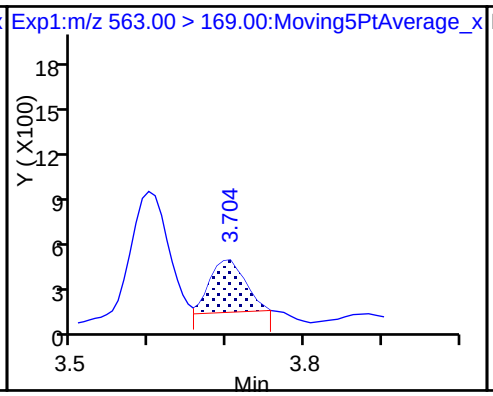
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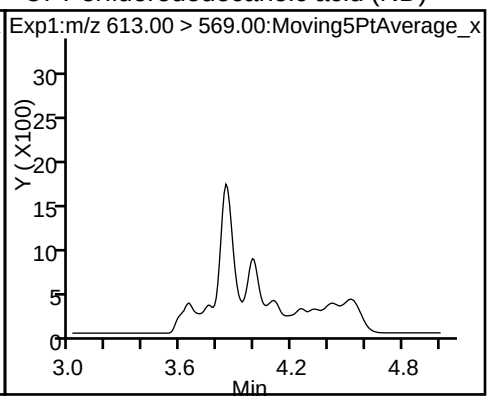
31 Perfluoroundecanoic acid



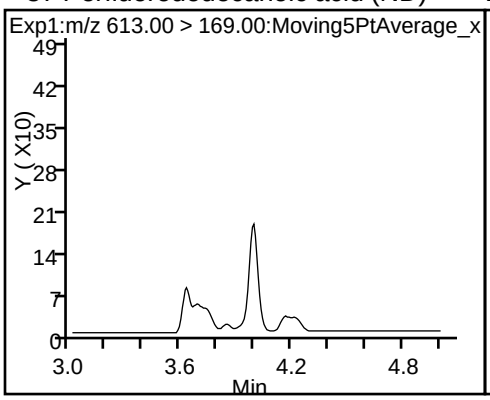
31 Perfluoroundecanoic acid



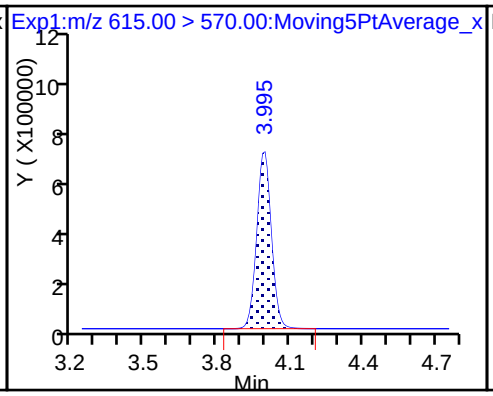
37 Perfluorododecanoic acid (ND)



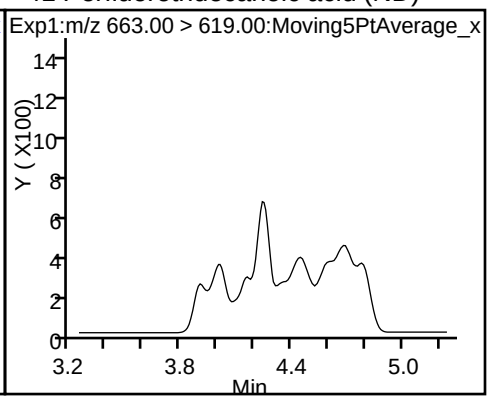
37 Perfluorododecanoic acid (ND)



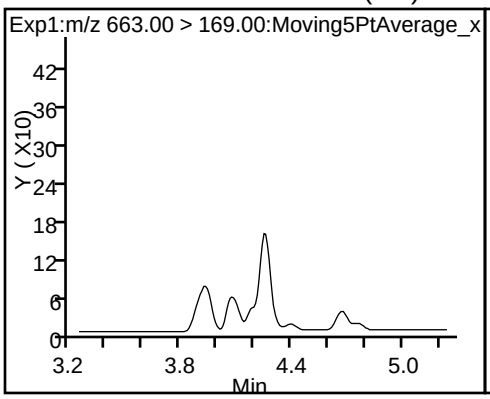
D 36 13C2 PFDoA



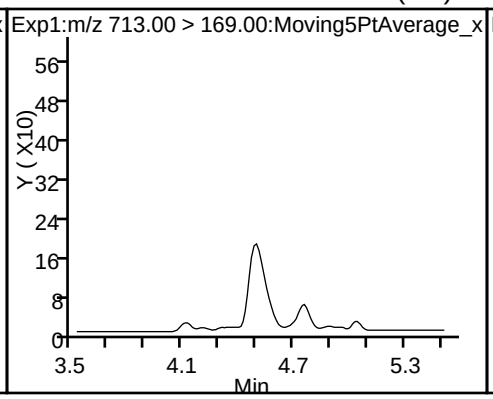
41 Perfluorotridecanoic acid (ND)



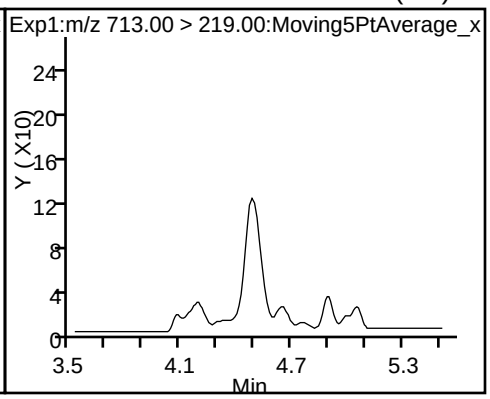
41 Perfluorotridecanoic acid (ND)



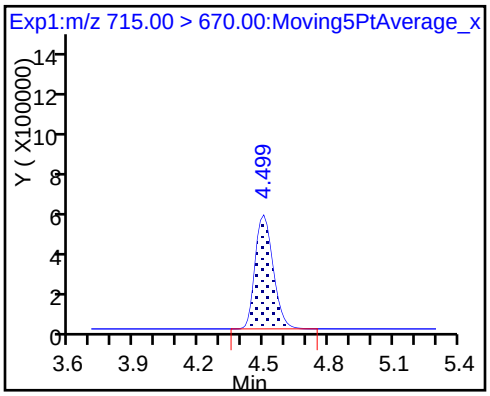
42 Perfluorotetradecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)



D 43 13C2-PFTeDA



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

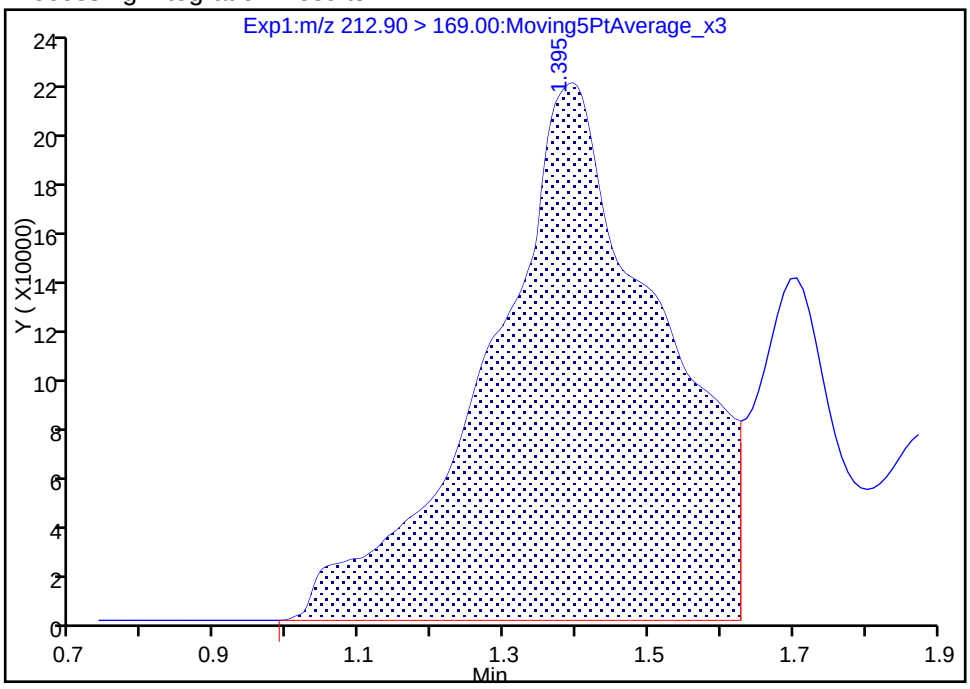
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Injection Date:	15-Dec-2017 21:29:11	Instrument ID:	A8_N		
Lims ID:	320-34256-A-5-A	Lab Sample ID:	320-34256-5		
Client ID:	NS-OWD-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

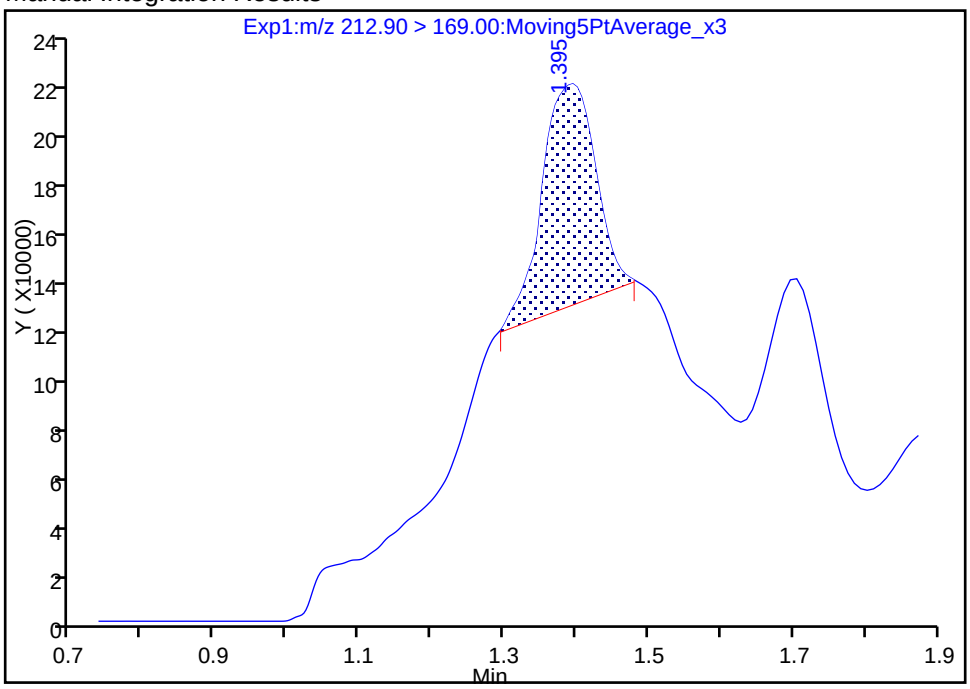
Processing Integration Results

RT: 1.40
Area: 3639529
Amount: 4.342691
Amount Units: ng/ml



Manual Integration Results

RT: 1.40
Area: 468604
Amount: 0.559139
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:59:42

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

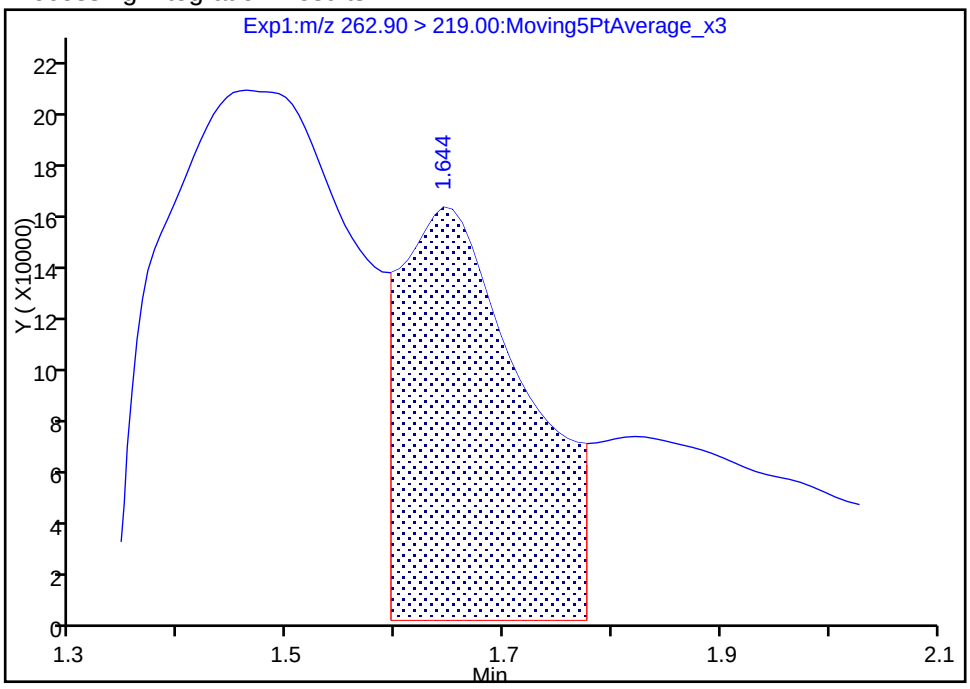
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_010.d				
Injection Date:	15-Dec-2017 21:29:11	Instrument ID:	A8_N		
Lims ID:	320-34256-A-5-A	Lab Sample ID:	320-34256-5		
Client ID:	NS-OWD-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

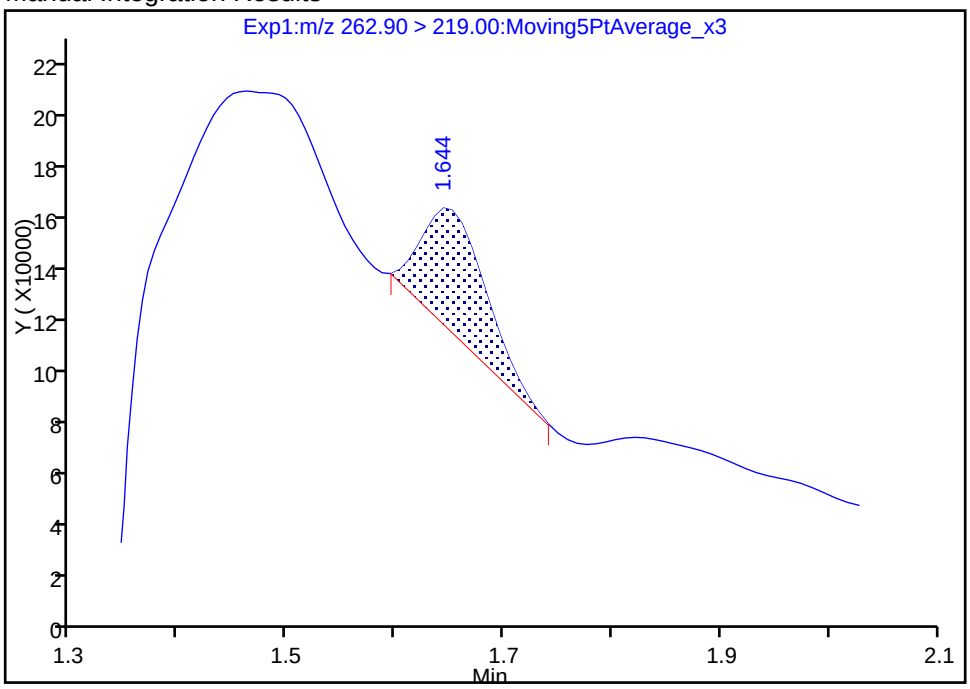
Processing Integration Results

RT: 1.64
Area: 1264869
Amount: 0.784617
Amount Units: ng/ml



Manual Integration Results

RT: 1.64
Area: 195266
Amount: 0.121126
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:59:51
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

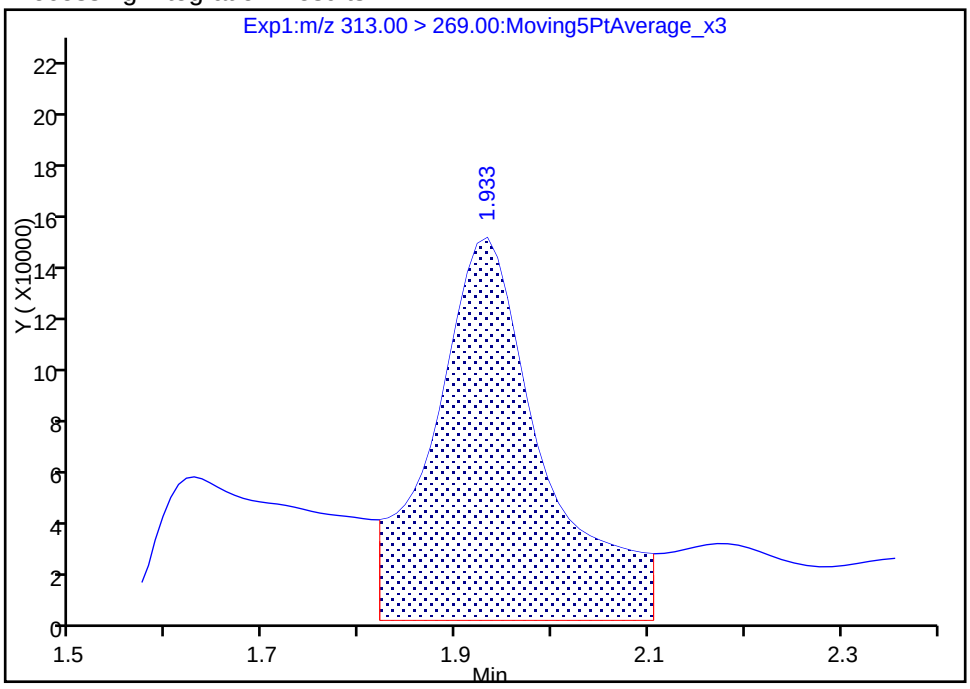
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Injection Date:	15-Dec-2017 21:29:11	Instrument ID:	A8_N		
Lims ID:	320-34256-A-5-A	Lab Sample ID:	320-34256-5		
Client ID:	NS-OWD-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

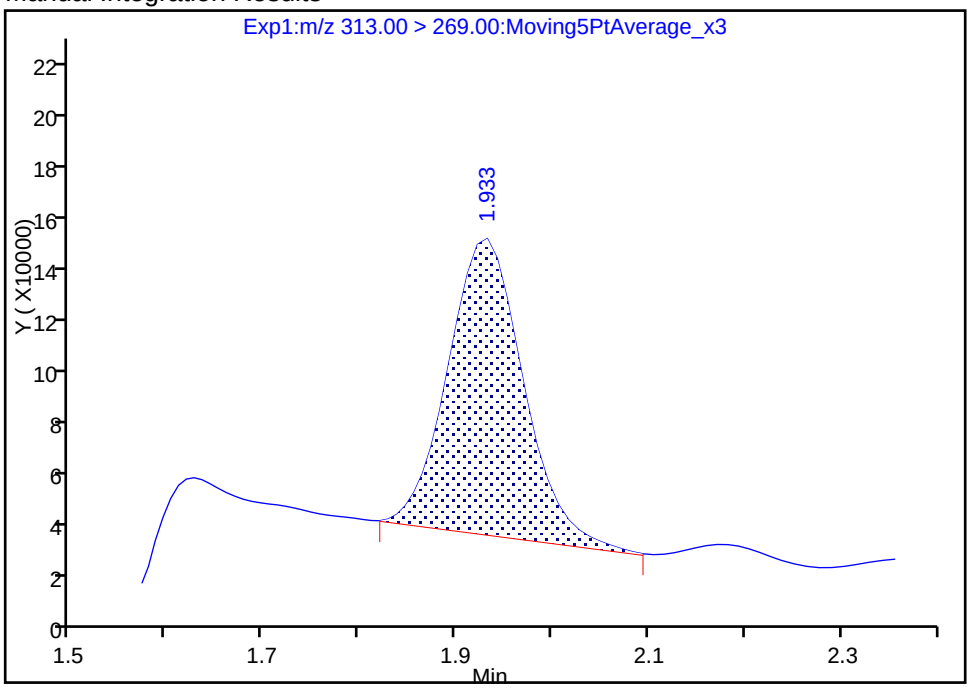
Processing Integration Results

RT: 1.93
Area: 1151705
Amount: 0.727647
Amount Units: ng/ml



Manual Integration Results

RT: 1.93
Area: 616469
Amount: 0.389485
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 12:00:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_010.d

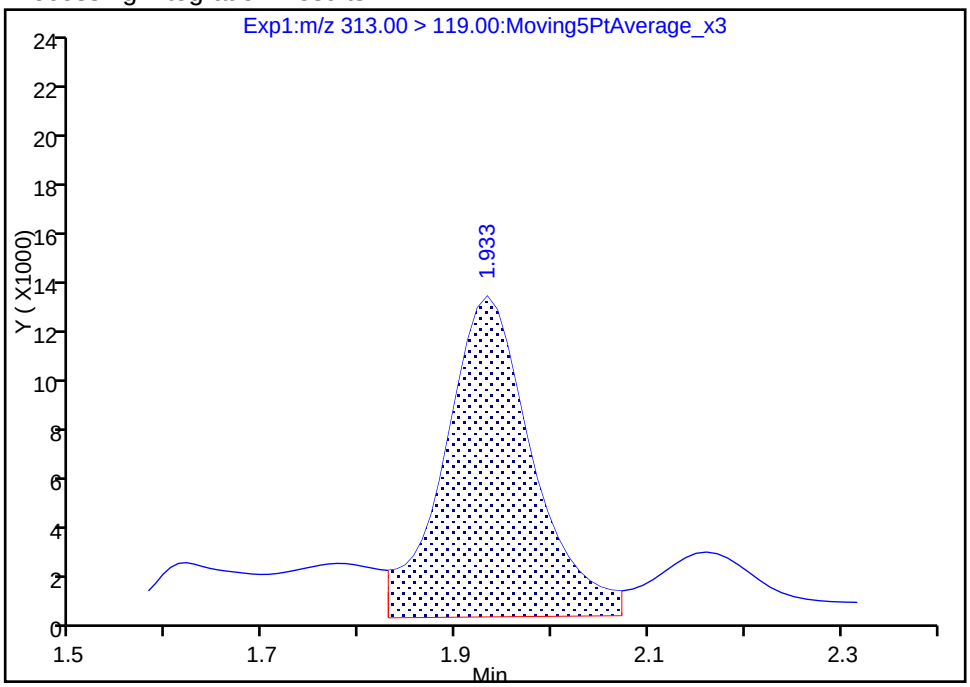
Injection Date:	15-Dec-2017 21:29:11	Instrument ID:	A8_N		
Lims ID:	320-34256-A-5-A	Lab Sample ID:	320-34256-5		
Client ID:	NS-OWD-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

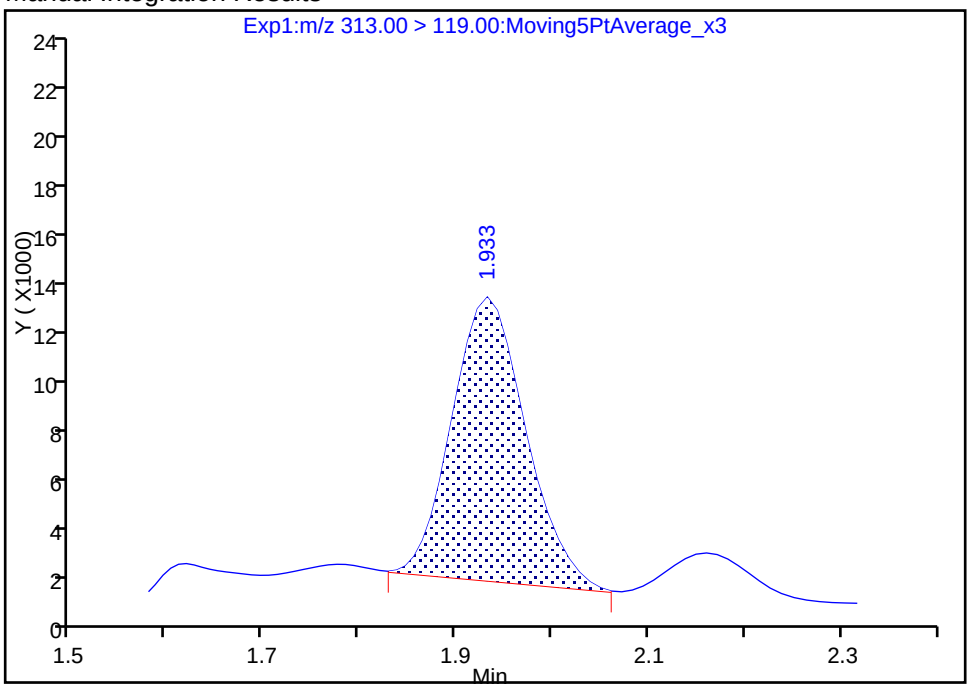
Processing Integration Results

RT: 1.93
Area: 80965
Amount: 0.727647
Amount Units: ng/ml



Manual Integration Results

RT: 1.93
Area: 60675
Amount: 0.389485
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 12:00:18

Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

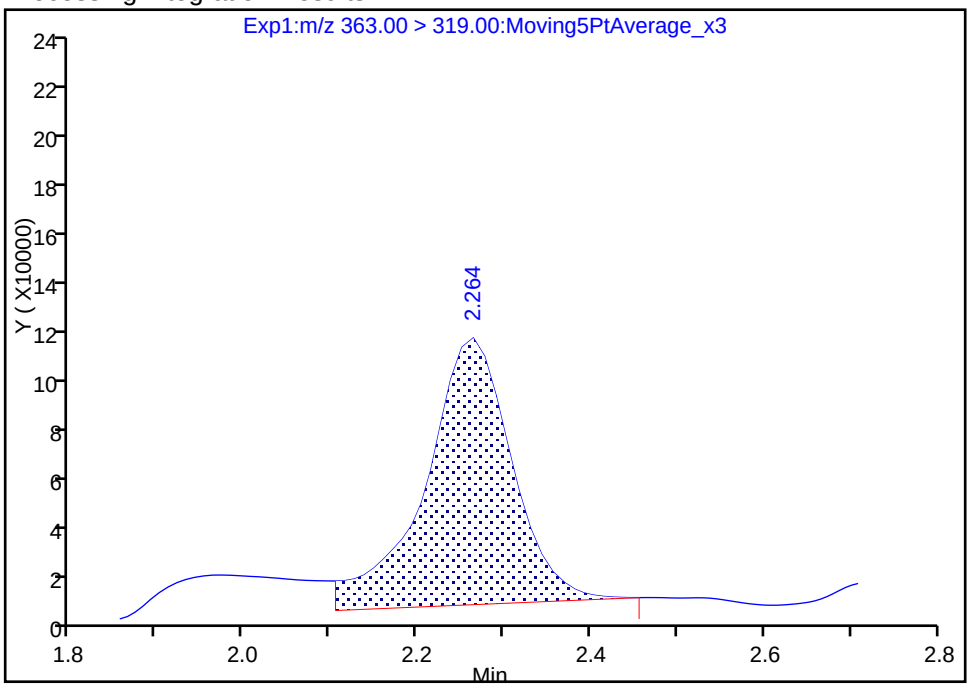
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Injection Date:	15-Dec-2017 21:29:11	Instrument ID:	A8_N		
Lims ID:	320-34256-A-5-A	Lab Sample ID:	320-34256-5		
Client ID:	NS-OWD-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

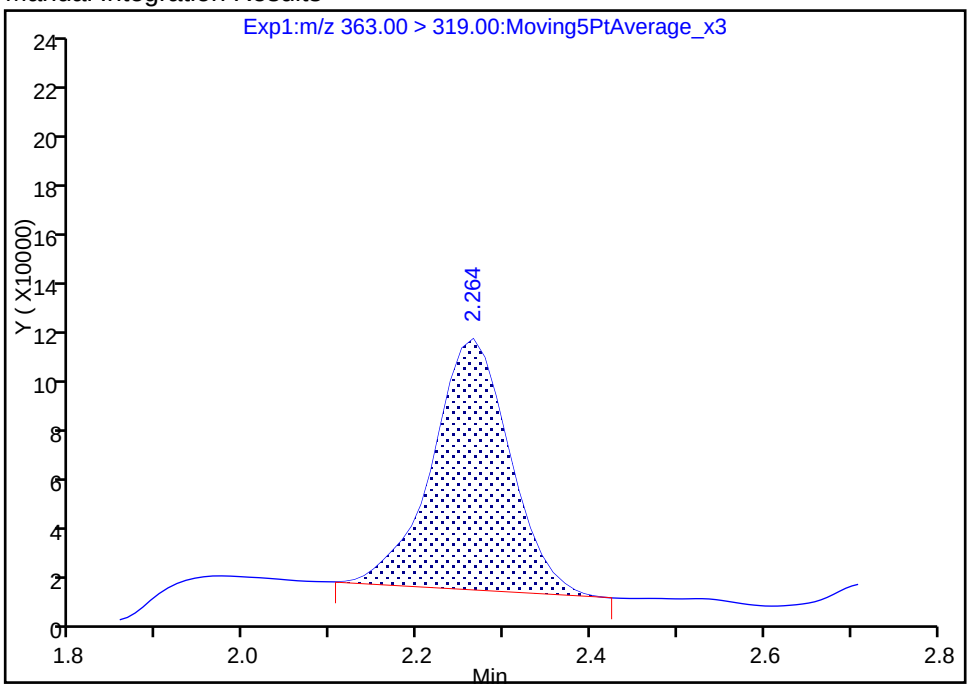
Processing Integration Results

RT: 2.26
Area: 753845
Amount: 0.453522
Amount Units: ng/ml



Manual Integration Results

RT: 2.26
Area: 632367
Amount: 0.380440
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 12:00:26
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

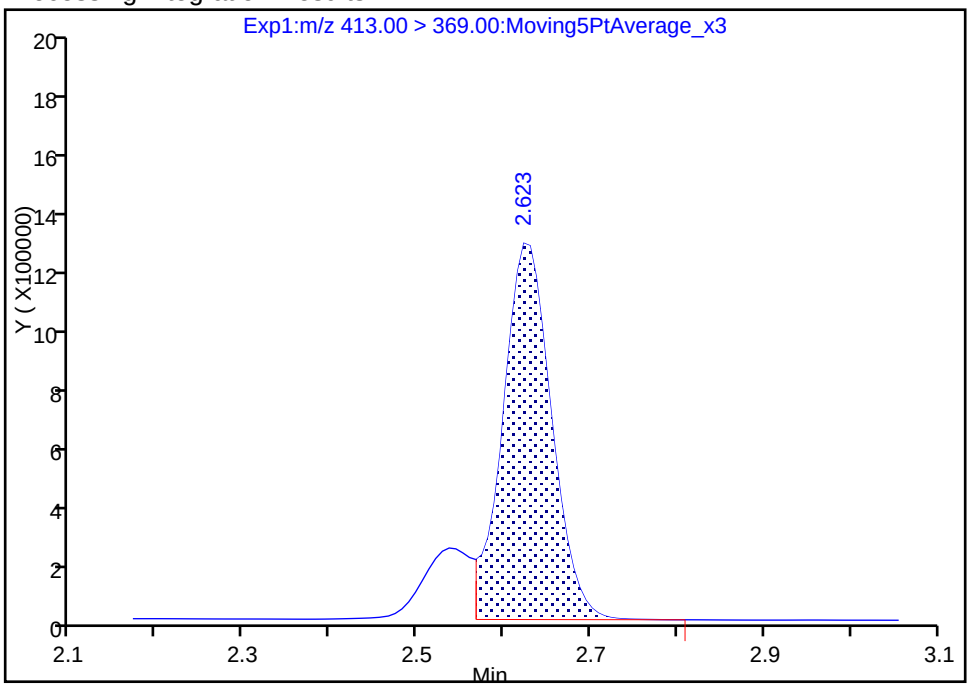
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_010.d				
Injection Date:	15-Dec-2017 21:29:11	Instrument ID:	A8_N		
Lims ID:	320-34256-A-5-A	Lab Sample ID:	320-34256-5		
Client ID:	NS-OWD-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

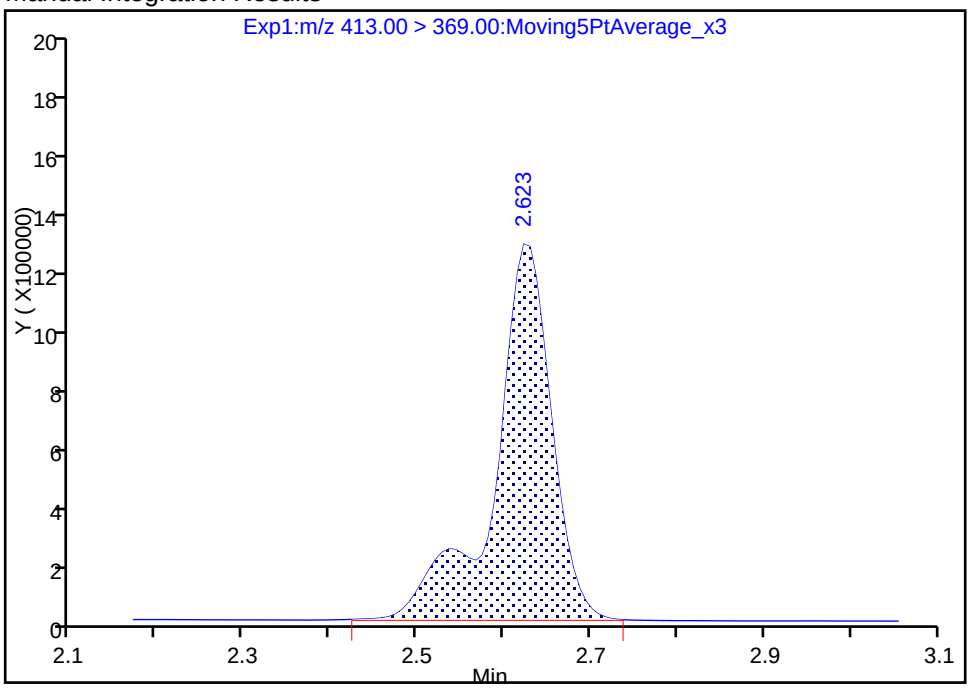
Processing Integration Results

RT: 2.62
Area: 4796938
Amount: 2.190746
Amount Units: ng/ml



Manual Integration Results

RT: 2.62
Area: 5694350
Amount: 2.600591
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 12:00:39
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

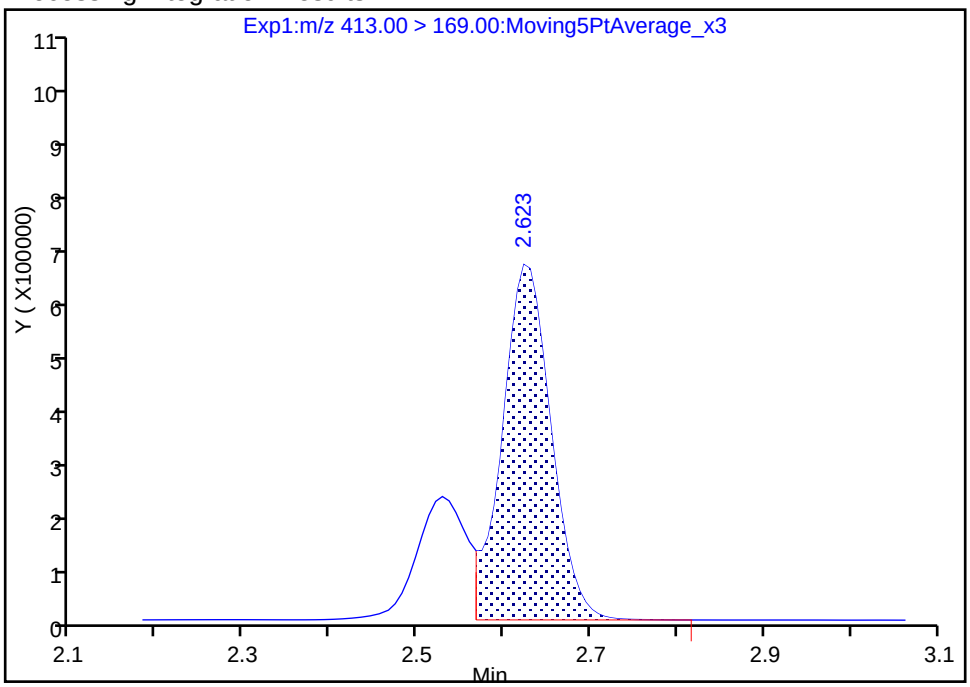
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Injection Date:	15-Dec-2017 21:29:11	Instrument ID:	A8_N		
Lims ID:	320-34256-A-5-A	Lab Sample ID:	320-34256-5		
Client ID:	NS-OWD-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

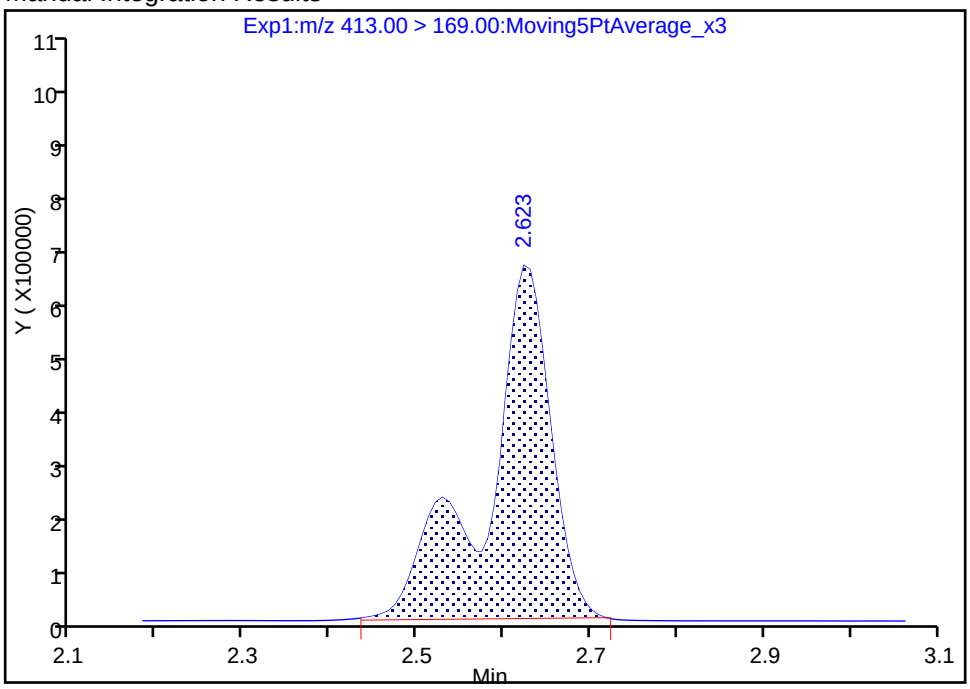
Processing Integration Results

RT: 2.62
Area: 2581870
Amount: 2.190746
Amount Units: ng/ml



Manual Integration Results

RT: 2.62
Area: 3418923
Amount: 2.600591
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 12:00:43
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento

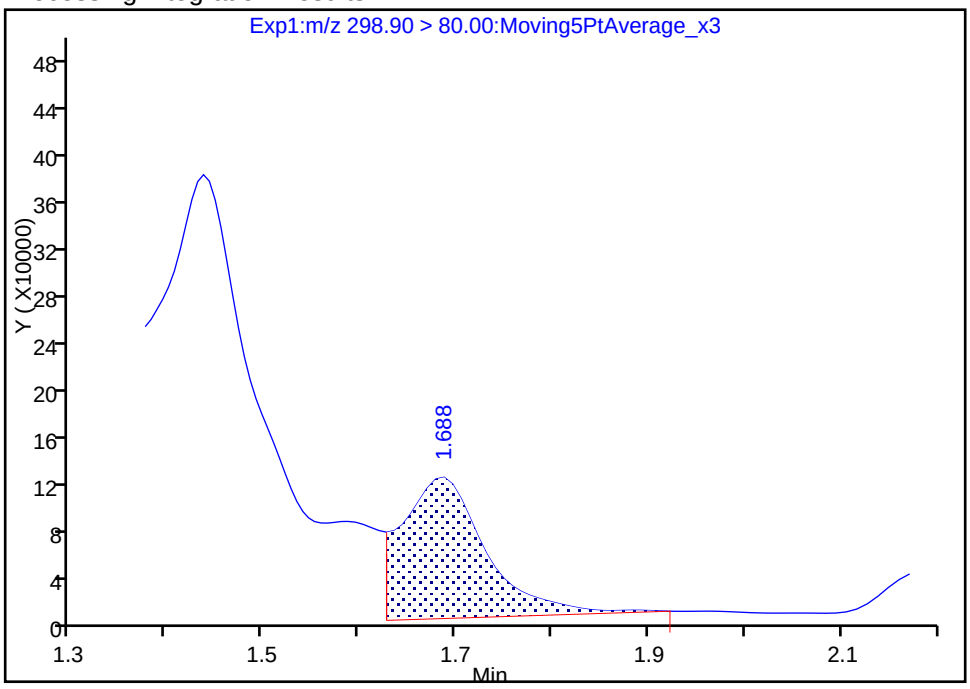
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Injection Date:	15-Dec-2017 21:29:11	Instrument ID:	A8_N		
Lims ID:	320-34256-A-5-A	Lab Sample ID:	320-34256-5		
Client ID:	NS-OWD-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

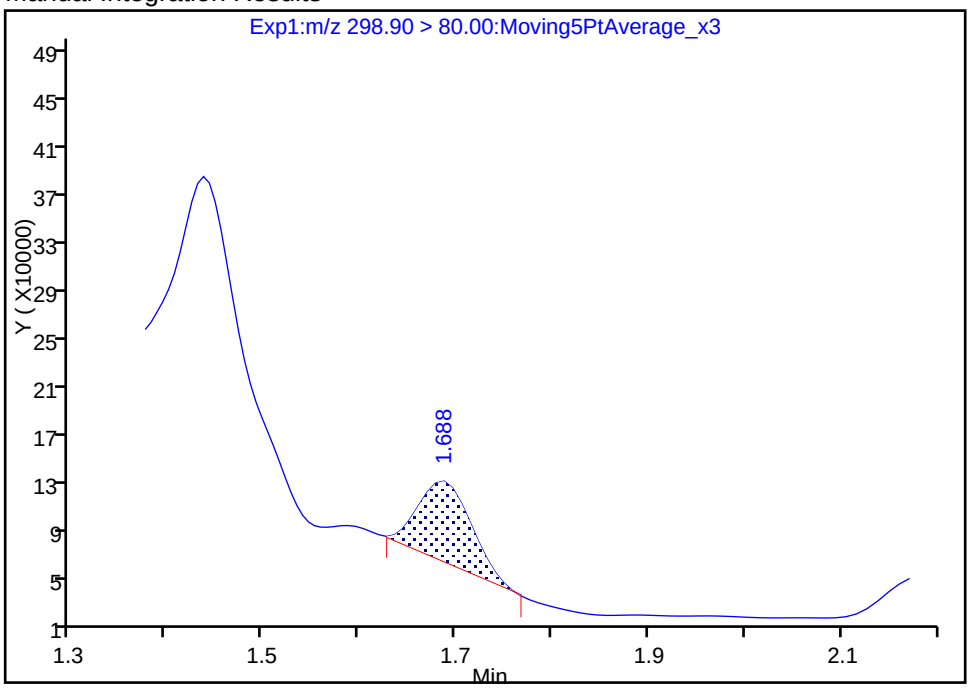
Processing Integration Results

RT: 1.69
Area: 712703
Amount: 0.253701
Amount Units: ng/ml



Manual Integration Results

RT: 1.69
Area: 257970
Amount: 0.091830
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 12:00:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_010.d

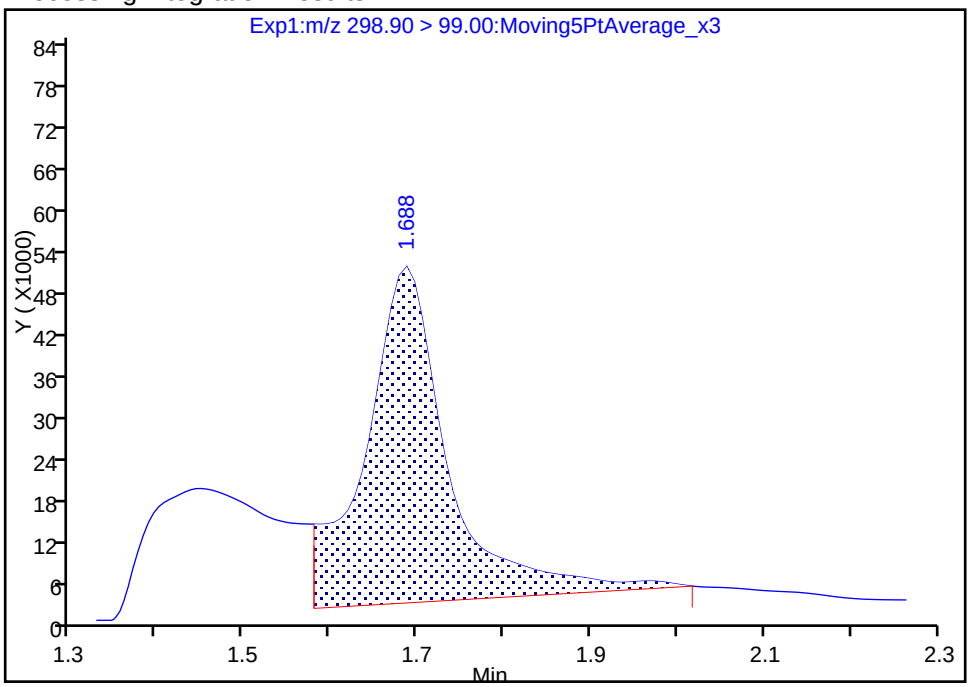
Injection Date:	15-Dec-2017 21:29:11	Instrument ID:	A8_N		
Lims ID:	320-34256-A-5-A	Lab Sample ID:	320-34256-5		
Client ID:	NS-OWD-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

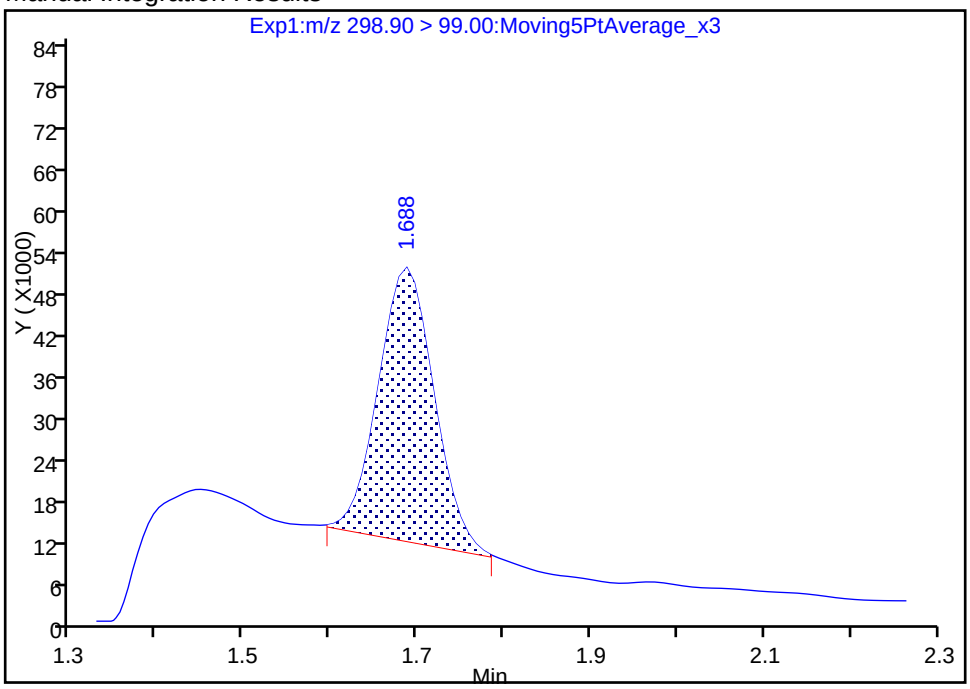
Processing Integration Results

RT: 1.69
Area: 324643
Amount: 0.253701
Amount Units: ng/ml



Manual Integration Results

RT: 1.69
Area: 178515
Amount: 0.091830
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 12:00:05

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1 Analy Batch No.: 199988

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:52 Calibration End Date: 12/14/2017 16:55 Calibration ID: 36847

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-199988/2	2017.12.14ICAL_002.d
Level 2	IC 320-199988/3	2017.12.14ICAL_003.d
Level 3	IC 320-199988/4	2017.12.14ICAL_004.d
Level 4	IC 320-199988/5	2017.12.14ICAL_005.d
Level 5	IC 320-199988/10	2017.12.14ICAL_010.d
Level 6	IC 320-199988/6	2017.12.14ICAL_006.d
Level 7	IC 320-199988/7	2017.12.14ICAL_007.d
Level 8	IC 320-199988/8	2017.12.14ICAL_008.d
Level 9	IC 320-199988/9	2017.12.14ICAL_009.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	0.8732 0.9385	0.9049 0.9287	0.9227 0.9046	0.9256 0.8153		AveID		0.9017				4.5		35.0			
Perfluoropentanoic acid (PFPeA)	1.2174 1.0978	1.1862 1.1093	1.0993 1.0999	1.1069 0.9822		AveID		1.1124				6.3		35.0			
Perfluorobutanesulfonic acid (PFBS)	70.259 76.105	75.729 75.832	79.352 71.844	78.364 59.136		AveID		73.328				8.8		50.0			
4:2 FTS	+++++ 0.4515	0.4214 0.5839	0.4247 +++++	0.4562 +++++		AveID		0.4676				14.3		50.0			
Perfluorohexanoic acid (PFHxA)	0.9384 1.0346	1.0766 0.9836	0.9731 1.0024	0.9803 0.9009		AveID		0.9862				5.5		35.0			
Perfluoroheptanoic acid (PFHpA)	1.1597 1.0736	0.9861 1.0585	1.0271 0.9926	1.0620 0.9326		AveID		1.0365				6.6		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.4307 1.0157	1.2608 1.0481	1.0693 1.0454	1.0157 0.9481		AveID		1.1042				14.5		35.0			
6:2FTS	1.4094 1.5713	1.6460 1.5147	1.6456 1.5881	1.6381 +++++		AveID		1.5733				5.5		35.0			
Perfluorooctanoic acid (PFOA)	1.2178 1.0553	1.0864 1.0716	1.0888 0.9788	1.0614 0.9453		AveID		1.0632				7.6		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.4474 1.5474	1.4514 1.4957	1.5658 1.4564	1.5207 1.3130		AveID		1.4747				5.4		50.0			
Perfluorooctanesulfonic acid (PFOS)	1.0177 1.0810	1.0443 1.0714	1.0864 1.0959	1.0645 1.0418		AveID		1.0629				2.5		35.0			
Perfluorononanoic acid (PFNA)	1.0386 1.0325	0.9669 0.9768	1.0282 0.9857	1.0452 0.8975		AveID		0.9964				5.0		35.0			
Perfluorooctane Sulfonamide (FOSA)	0.9733 0.9785	0.9833 0.9823	0.9502 0.9288	0.9830 0.7901		AveID		0.9462				7.0		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1 Analy Batch No.: 199988

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:52 Calibration End Date: 12/14/2017 16:55 Calibration ID: 36847

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
8:2FTS	1.1561 1.2508	1.2550 1.2053	1.2355 1.2227	1.2399 1.1723		AveID		1.2172				3.0		35.0			
Perfluorodecanoic acid (PFDA)	0.9300 0.9984	0.9322 1.0008	0.9916 1.0025	0.9983 0.8773		AveID		0.9664				4.9		35.0			
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	0.9031 1.0995	1.0283 1.0794	1.0221 1.1187	1.1049 0.9972		AveID		1.0441				6.9		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.6294 0.6132	0.5828 0.5830	0.5921 0.5811	0.6003 0.5695		AveID		0.5939				3.3		50.0			
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.8812 0.9790	0.9274 0.9871	0.9828 0.9991	0.9715 0.9927		AveID		0.9651				4.2		35.0			
Perfluoroundecanoic acid (PFUnA)	1.0492 0.8750	0.9419 0.8898	0.8490 0.9354	0.8447 0.8746		AveID		0.9075				7.4		35.0			
MeFOSA	0.9495 1.0477	1.0161 1.0260	1.0139 1.0134	1.0282 0.9247		AveID		1.0024				4.2		50.0			
Perfluorododecanoic acid (PFDoA)	0.8420 0.9620	0.9969 1.0104	0.9451 1.0579	1.0084 0.9662		AveID		0.9736				6.6		35.0			
N-EtFOSA-M	0.9074 1.0855	0.9221 1.0629	1.0620 1.0670	1.0969 1.0577		AveID		1.0327				7.2		35.0			
Perfluorotridecanoic Acid (PFTriA)	1.0697 1.0869	1.0906 1.1290	1.1100 1.1697	1.1544 1.0199		AveID		1.1038				4.4		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.2435 0.2383	0.2546 0.2490	0.2550 0.2427	0.2559 0.2602		AveID		0.2499				3.1		50.0			
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.7048 0.9396	1.2477 0.8996	1.0414 0.8688	0.9231 0.7451		L2ID	0.0204	0.8786							0.9930		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	1.1126 1.1581	1.1087 1.1702	1.2012 1.1396	1.2127 0.9206		AveID		1.1280				8.1		50.0			
13C4 PFBA	1.4805 1.4212	1.4354 1.4814	1.4190 1.4735	1.4416 1.5503		Ave		1.4628				3.0		50.0			
13C5 PFPeA	0.8766 0.8526	0.8418 0.8629	0.8407 0.8642	0.8358 0.9191		Ave		0.8617				3.1		50.0			
13C3-PFBS	0.0189 0.0181	0.0181 0.0183	0.0175 0.0183	0.0182 0.0204		Ave		0.0185				4.7		50.0			
M2-4:2FTS					0.0973	Ave		0.0973						50.0			
13C2 PFHxA	0.8991 0.8617	0.8792 0.9221	0.8765 0.8931	0.9041 0.9660		Ave		0.9002				3.6		50.0			
13C4-PFHpA	0.8630 0.8118	0.8567 0.8410	0.8407 0.8352	0.8295 0.8782		Ave		0.8445				2.5		50.0			
18O2 PFHxS	1.0567 1.0413	1.0518 1.0422	1.0654 1.0257	1.0464 1.0823		Ave		1.0515				1.6		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1 Analy Batch No.: 199988

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:52 Calibration End Date: 12/14/2017 16:55 Calibration ID: 36847

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
M2-6:2FTS	0.4196 0.4824	0.4961 0.4015	0.5225 0.3856	0.5049 +++++		Ave		0.4590				12.0		50.0			
13C4 PFOA	1.0597 1.0260	1.0523 1.0021	1.0066 1.0166	1.0436 0.9581		Ave		1.0206				3.2		50.0			
13C4 PFOS	0.6774 0.6441	0.6651 0.6797	0.6498 0.6537	0.6606 0.6742		Ave		0.6631				2.0		50.0			
13C5 PFNA	0.7015 0.6539	0.6776 0.6924	0.6510 0.6776	0.6593 0.6929		Ave		0.6758				2.9		50.0			
13C8 FOSA	0.9805 0.9216	0.9356 0.9525	0.9442 0.9302	0.9503 0.9883		Ave		0.9504				2.5		50.0			
M2-8:2FTS	0.1477 0.1447	0.1427 0.1553	0.1452 0.1588	0.1490 0.1744		Ave		0.1522				6.9		50.0			
13C2 PFDA	0.5519 0.5381	0.5270 0.5547	0.5245 0.5503	0.5547 0.6035		Ave		0.5506				4.5		50.0			
d3-NMeFOSAA	0.2604 0.2549	0.2578 0.2647	0.2509 0.2661	0.2515 0.2939		Ave		0.2625				5.3		50.0			
d5-NEtFOSAA	0.2743 0.2567	0.2650 0.2645	0.2550 0.2526	0.2659 0.2591		Ave		0.2616				2.7		50.0			
13C2 PFUnA	0.4231 0.4125	0.3970 0.4361	0.4142 0.4181	0.4200 0.4291		Ave		0.4188				2.8		50.0			
d-N-MeFOSA-M	0.2786 0.2606	0.2654 0.2764	0.2648 0.2929	0.2606 0.3299		Ave		0.2786				8.4		50.0			
13C2 PFDoA	0.4697 0.4511	0.4573 0.4456	0.4400 0.4251	0.4387 0.4540		Ave		0.4477				3.0		50.0			
d-N-EtFOSA-M	0.2528 0.2462	0.2520 0.2630	0.2469 0.2667	0.2485 0.2860		Ave		0.2578				5.3		50.0			
13C2-PFTeDA	0.4901 0.4952	0.4790 0.4982	0.4687 0.4886	0.4885 0.4757		Ave		0.4855				2.1		50.0			
13C2-PFHxDA	0.9353 0.8751	0.9084 0.8733	0.8645 0.8340	0.9121 0.9175		Ave		0.8900				3.8		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1 Analy Batch No.: 199988

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:52 Calibration End Date: 12/14/2017 16:55 Calibration ID: 36847

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-199988/2	2017.12.14ICAL_002.d
Level 2	IC 320-199988/3	2017.12.14ICAL_003.d
Level 3	IC 320-199988/4	2017.12.14ICAL_004.d
Level 4	IC 320-199988/5	2017.12.14ICAL_005.d
Level 5	IC 320-199988/10	2017.12.14ICAL_010.d
Level 6	IC 320-199988/6	2017.12.14ICAL_006.d
Level 7	IC 320-199988/7	2017.12.14ICAL_007.d
Level 8	IC 320-199988/8	2017.12.14ICAL_008.d
Level 9	IC 320-199988/9	2017.12.14ICAL_009.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	74392 7746814	158249 15381830	793581 28700316	3090470 49420094		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluoropentanoic acid (PFPeA)		AveID	61413 5436044	121653 10701627	560152 20466520	2142448 35298554		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluorobutanesulfonic acid (PFBS)		AveID	67711 7079075	148001 13712842	745803 24976975	2923644 41750244		0.0221 2.21	0.0442 4.42	0.221 8.84	0.884 17.7	
4:2 FTS		AveID	+++++ 1181616	23793 2448157	125605 +++++	498303 +++++		+++++ 2.34	0.0467 4.67	0.234 +++++	0.934 +++++	
Perfluorohexanoic acid (PFHxA)		AveID	48556 5177959	115321 10140951	516953 19276718	2052791 34026563		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluoroheptanoic acid (PFHpA)		AveID	57593 5061592	102931 9952472	523316 17850833	2040277 32023056		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluorohexanesulfonic acid (PFHxS)		AveID	79170 5589957	147022 11114182	628334 21011008	2240009 36510815		0.0228 2.28	0.0455 4.55	0.228 9.10	0.910 18.2	
6:2FTS		AveID	32265 4173348	94318 6446185	493994 12501676	1816008 +++++		0.0237 2.37	0.0474 4.74	0.237 9.48	0.948 +++++	
Perfluorooctanoic acid (PFOA)		AveID	74267 6288354	139282 12005487	664330 21425345	2565408 35409971		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	53716 5510579	111971 10821490	587067 19516780	2214859 32947015		0.0238 2.38	0.0476 4.76	0.238 9.52	0.952 19.0	
Perfluorooctanesulfonic acid (PFOS)		AveID	36817 3752802	78532 7556177	397062 14315958	1511404 25482673		0.0232 2.32	0.0464 4.64	0.232 9.28	0.928 18.6	
Perfluorononanoic acid (PFNA)		AveID	41928 3921608	79821 7561124	405678 14382186	1596131 24313505		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluorooctane Sulfonamide (FOSA)		AveID	54916 5237533	112083 10460648	543794 18602053	2163477 30528810		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
8:2FTS		AveID	9415 1006926	20897 2004582	104155 4005486	409945 7656436		0.0240 2.40	0.0479 4.79	0.240 9.58	0.958 19.2	

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1 Analy Batch No.: 199988

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:52 Calibration End Date: 12/14/2017 16:55 Calibration ID: 36847

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Perfluorodecanoic acid (PFDA)		AveID	29539 3120364	59856 6207557	315236 11878885	1282349 20700325		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)		AveID	13536 1628068	32295 3194509	155423 6408861	643480 11459094		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluorodecanesulfonic acid (PFDS)		AveID	23651 2211386	45529 4271524	224818 7885511	885300 14469714		0.0241 2.41	0.0482 4.82	0.241 9.64	0.964 19.3	
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)		AveID	13912 1459440	29947 2918773	151917 5433878	598278 10058695		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluoroundecanoic acid (PFUnA)		AveID	25546 2096337	45561 4338960	213173 8421362	821719 14673943		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
MeFOSA		AveID	15225 1585685	32859 3171304	162702 6390964	620438 11928602		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluorododecanoic acid (PFDoA)		AveID	22759 2520689	55543 5033656	252044 9684102	1024451 17150579		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
N-EtFOSA-M		AveID	13203 1552335	28314 3126044	158928 6126410	631383 11827494		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluorotridecanoic Acid (PFTriA)		AveID	28913 2847913	60766 5624317	296005 10708089	1172821 18102371		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluorotetradecanoic acid (PFTeA)		AveID	6868 685395	14857 1387109	72426 2553613	289450 4839276		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	91760 4775816	138082 8784105	545644 15600811	1949984 26731483		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
Perfluoro-n-octadecanoic acid (PFODA)		AveID	59885 5886423	122697 11426082	629381 20463340	2561749 33026158		0.0250 2.50	0.0500 5.00	0.250 10.0	1.00 20.0	
13C4 PFBA	13PFOA	Ave	8519754 8254609	8743813 8281403	8600312 7932108	8346841 7576680		2.50 2.50	2.50 2.50	2.50 2.50	2.50 2.50	
13C5 PFPeA	13PFOA	Ave	5044594 4951824	5127910 4823648	5095577 4652087	4839061 4492210		2.50 2.50	2.50 2.50	2.50 2.50	2.50 2.50	
13C3-PFBS	13PFOA	Ave	101389 97857	102803 95121	98877 91436	98125 92842		2.33 2.33	2.33 2.33	2.33 2.33	2.33 2.33	
M2-4:2FTS	13PFOA	Ave					520857					2.34
13C2 PFHxA	13PFOA	Ave	5174365 5004702	5355991 5154860	5312653 4807490	5234897 4721402		2.50 2.50	2.50 2.50	2.50 2.50	2.50 2.50	
13C4-PFHpA	13PFOA	Ave	4966258 4714810	5218966 4701313	5095268 4496164	4802767 4292178		2.50 2.50	2.50 2.50	2.50 2.50	2.50 2.50	
18O2 PFHxS	13PFOA	Ave	5752605 5721252	6061138 5511888	6108701 5223265	5731587 5004021		2.37 2.37	2.37 2.37	2.37 2.37	2.37 2.37	
M2-6:2FTS	13PFOA	Ave	2294060 2661632	2871195 2132417	3008269 1972137	2777334 +++++		2.38 2.38	2.38 2.38	2.38 2.38	2.38 +++++	
13C4 PFOA	13PFOA	Ave	6098530 5958852	6410213 5601855	6101236 5472310	6042499 4682422		2.50 2.50	2.50 2.50	2.50 2.50	2.50 2.50	

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1 Analy Batch No.: 199988

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/14/2017 15:52 Calibration End Date: 12/14/2017 16:55 Calibration ID: 36847

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
13C4 PFOS	13PF	Ave	3726715	3873442	3765173	3656571		2.39	2.39	2.39	2.39	
	OA		3576232	3632697	3364334	3149884		2.39	2.39	2.39	2.39	
13C5 PFNA	13PF	Ave	4036934	4127641	3945653	3817610		2.50	2.50	2.50	2.50	
	OA		3798000	3870530	3647795	3386319		2.50	2.50	2.50	2.50	
13C8 FOSA	13PF	Ave	5642400	5699209	5722686	5502448		2.50	2.50	2.50	2.50	
	OA		5352591	5324779	5007254	4829966		2.50	2.50	2.50	2.50	
M2-8:2FTS	13PF	Ave	814379	832531	842989	826584		2.40	2.40	2.40	2.40	
	OA		805003	831573	818951	816414		2.40	2.40	2.40	2.40	
13C2 PFDA	13PF	Ave	3176082	3210389	3179040	3211449		2.50	2.50	2.50	2.50	
	OA		3125298	3101150	2962231	2949487		2.50	2.50	2.50	2.50	
d3-NMeFOSAA	13PF	Ave	1498791	1570241	1520693	1456007		2.50	2.50	2.50	2.50	
	OA		1480753	1479742	1432256	1436387		2.50	2.50	2.50	2.50	
d5-NEtFOSAA	13PF	Ave	1578685	1614490	1545787	1539604		2.50	2.50	2.50	2.50	
	OA		1490805	1478428	1359649	1266524		2.50	2.50	2.50	2.50	
13C2 PFUnA	13PF	Ave	2434810	2418614	2510724	2431848		2.50	2.50	2.50	2.50	
	OA		2395817	2438040	2250686	2097264		2.50	2.50	2.50	2.50	
d-N-MeFOSA-M	13PF	Ave	1603457	1616850	1604706	1508614		2.50	2.50	2.50	2.50	
	OA		1513451	1545427	1576560	1612541		2.50	2.50	2.50	2.50	
13C2 PFDoA	13PF	Ave	2703017	2785823	2666735	2539810		2.50	2.50	2.50	2.50	
	OA		2620258	2490930	2288557	2218719		2.50	2.50	2.50	2.50	
d-N-EtFOSA-M	13PF	Ave	1455007	1535279	1496552	1439049		2.50	2.50	2.50	2.50	
	OA		1430038	1470478	1435413	1397810		2.50	2.50	2.50	2.50	
13C2-PFTeDA	13PF	Ave	2820379	2917905	2840465	2828239		2.50	2.50	2.50	2.50	
	OA		2876204	2785323	2630360	2324795		2.50	2.50	2.50	2.50	
13C2-PFHxDA	13PF	Ave	5382413	5533473	5239488	5281068		2.50	2.50	2.50	2.50	
	OA		5082731	4882215	4489310	4484274		2.50	2.50	2.50	2.50	

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_002.d
Lims ID: IC L1 Full
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Dec-2017 15:52:32 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L1-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub19

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 09:54:00 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK021

First Level Reviewer: phomsophat Date: 14-Dec-2017 19:07:42

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.399	1.406	-0.007	0.532	8519754	2.53		101	28634	
2 Perfluorobutyric acid										
212.90 > 169.00	1.399	1.408	-0.009	1.000	74392	0.0242		96.8	15.0	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.650	1.656	-0.006	1.000	61413	0.0274		109	80.3	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.650	1.656	-0.006	0.627	5044594	2.54		102	42303	
D 47 13C3-PFBS										
301.90 > 83.00	1.685	1.690	-0.005	0.640	101389	2.38		102	3592	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.685	1.692	-0.007	1.000	67711	0.0212		95.8	361	
298.90 > 99.00	1.685	1.692	-0.007	1.000	29580		2.29(1.25-3.74)	95.8	249	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.889	1.902	-0.013	1.000	9293	0.0206		88.1	508	
D 7 13C2 PFHxA										
315.00 > 270.00	1.939	1.938	0.001	0.736	5174365	2.50		99.9	48800	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.939	1.939	0.0	1.000	48556	0.0238		95.1	100	M
313.00 > 119.00	1.939	1.939	0.0	1.000	5560		8.73(5.03-15.10)	95.1	113	M
D 9 13C4-PFHpA										
367.00 > 322.00	2.273	2.272	0.001	0.863	4966258	2.55		102	34171	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.273	2.273	0.0	1.000	57593	0.0280		112	124	
363.00 > 169.00	2.273	2.273	0.0	1.000	23003		2.50(1.13-3.40)	112	183	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.286	2.285	0.001	1.000	79170	0.0295		130	721	
399.00 > 99.00	2.286	2.285	0.001	1.000	24701		3.21(1.50-4.49)	130	284	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.286	2.286	0.0	0.868	5752605	2.38		100	27266	
D 12 M2-6:2FTS										
429.00 > 81.00	2.618	2.625	-0.007	0.995	2294060	2.17		91.4	58997	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.618	2.625	-0.007	1.000	32265	0.0212		89.6	759	
D 14 13C4 PFOA										
417.00 > 372.00	2.633	2.637	-0.004	1.000	6098530	2.60		104	54113	
* 62 13C2-PFOA										
415.00 > 370.00	2.633	2.638	-0.005		5754768	2.50			38868	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.640	2.640	0.0	1.003	74267	0.0286		115	161	
413.00 > 169.00	2.640	2.640	0.0	1.003	39244		1.89(0.84-2.52)	115	258	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.640	2.644	-0.004	1.000	53716	0.0234		98.2	1997	
449.00 > 99.00	2.640	2.644	-0.004	1.000	14380		3.74(1.94-5.82)	98.2	537	
D 18 13C4 PFOS										
503.00 > 80.00	3.012	3.014	-0.002	1.144	3726715	2.44		102	27923	
D 19 13C5 PFNA										
468.00 > 423.00	3.012	3.015	-0.003	1.144	4036934	2.60		104	35336	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.012	3.015	-0.003	1.000	36817	0.0222		95.8	132	
499.00 > 99.00	3.012	3.015	-0.003	1.000	8377		4.40(2.31-6.93)	95.8	93.8	
20 Perfluorononanoic acid										
463.00 > 419.00	3.012	3.017	-0.005	1.000	41928	0.0261		104	286	
463.00 > 169.00	3.012	3.017	-0.005	1.000	9595		4.37(1.90-5.69)	104	301	
D 21 13C8 FOSA										
506.00 > 78.00	3.350	3.354	-0.004	1.273	5642400	2.58		103	38054	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.350	3.356	-0.006	1.000	54916	0.0257		103	1889	
D 26 M2-8:2FTS										
529.00 > 81.00	3.365	3.368	-0.003	1.278	814379	2.32		97.0	14310	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.365	3.369	-0.004	1.000	9415	0.0227		95.0	622	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.373	3.379	-0.006	1.000	29539	0.0241		96.2	324	
513.00 > 169.00	3.373	3.379	-0.006	1.000	5967		4.95(2.36-7.09)	96.2	248	
D 23 13C2 PFDA										
515.00 > 470.00	3.373	3.379	-0.006	1.281	3176082	2.51		100	34427	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.533	3.535	-0.002	1.342	1498791	2.48		99.2	18383	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.533	3.538	-0.005	1.000	13536	0.0216		86.5	123	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.690	3.692	-0.002	1.000	23651	0.0255		106	1433	
599.00 > 99.00	3.690	3.692	-0.002	1.000	6083		3.89(1.39-4.16)	106	372	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.699	3.704	-0.005	1.405	1578685	2.62		105	5738	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.708	3.709	-0.001	1.408	2434810	2.53		101	30011	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.708	3.710	-0.002	1.002	13912	0.0228		91.3	538	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.708	3.711	-0.003	1.000	25546	0.0289		116	297	
563.00 > 169.00	3.708	3.711	-0.003	1.000	5446		4.69(0.00-0.00)	116	386	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.847	3.850	-0.003	1.461	1603457	2.50		100	3681	
35 MeFOSA										
512.00 > 169.00	3.847	3.856	-0.009	1.000	15225	0.0237		94.7	677	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.006	4.008	-0.002	1.000	22759	0.0216		86.5	92.1	
613.00 > 169.00	4.006	4.008	-0.002	1.000	5945		3.83(2.13-6.40)	86.5	389	
D 36 13C2 PFDoA										
615.00 > 570.00	4.006	4.008	-0.002	1.522	2703017	2.62		105	37270	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.038	4.039	-0.001	1.534	1455007	2.45		98.1	3540	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.046	4.047	-0.001	1.002	13203	0.0220		87.9	539	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.272	4.275	-0.003	1.000	28913	0.0242		96.9	277	
663.00 > 169.00	4.272	4.275	-0.003	1.000	9068		3.19(1.25-3.76)	96.9	515	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.514	4.519	-0.005	1.000	6868	0.0244		97.4	402	
713.00 > 219.00	4.501	4.519	-0.018	0.997	5545		1.24(0.71-2.13)	97.4	338	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.514	4.519	-0.005	1.715	2820379	2.52		101	22982	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.932	4.935	-0.003	1.000	91760	0.0253		101	76.6	
813.00 > 169.00	4.932	4.935	-0.003	1.000	16057		5.71(2.86-8.58)	101	545	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.932	4.935	-0.003	1.873	5382413	2.63		105	13800	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.289	5.299	-0.010	1.000	59885	0.0247		98.6	21.9	
913.00 > 169.00	5.289	5.299	-0.010	1.000	7280		8.23(0.00-0.00)	98.6	151	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL1_00002 Amount Added: 1.00 Units: mL

Report Date: 15-Dec-2017 09:54:01 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_002.d

Injection Date: 14-Dec-2017 15:52:32 Instrument ID: A8_N

Lims ID: IC L1 Full

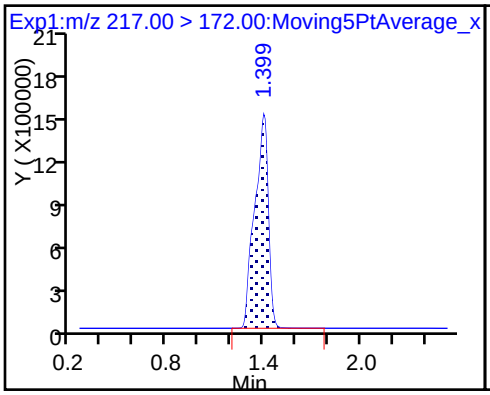
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2

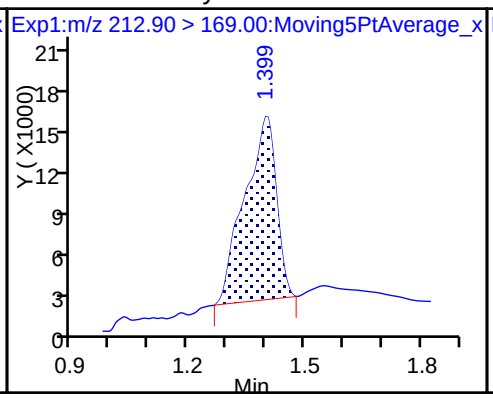
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

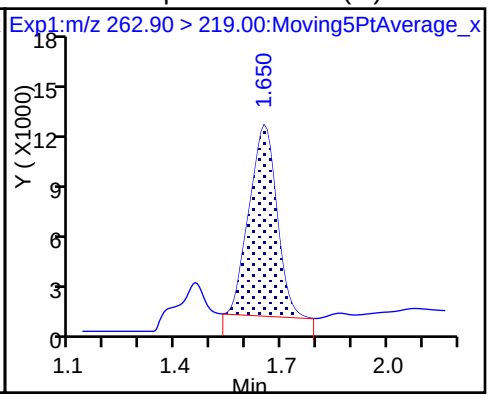
D 1 13C4 PFBA



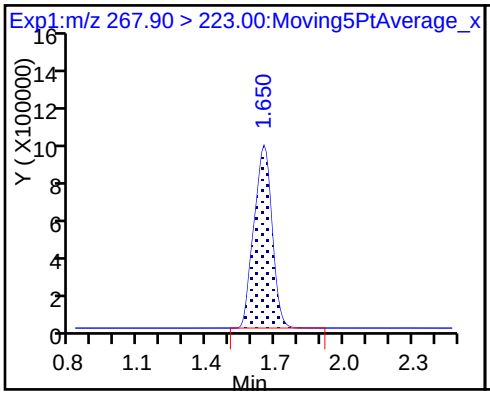
2 Perfluorobutyric acid



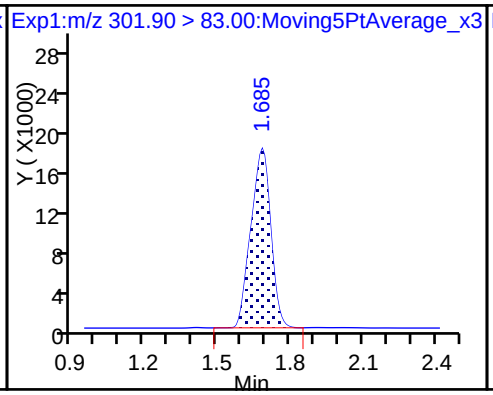
4 Perfluoropentanoic acid (M)



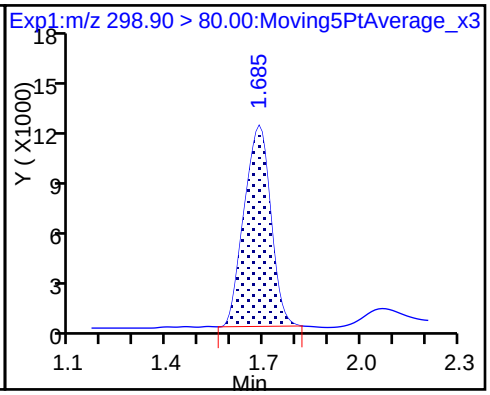
D 3 13C5-PFPeA



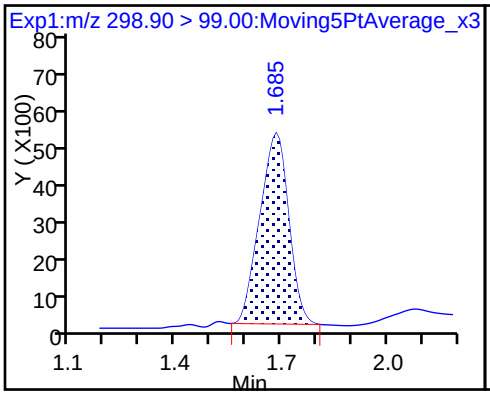
D 47 13C3-PFBS



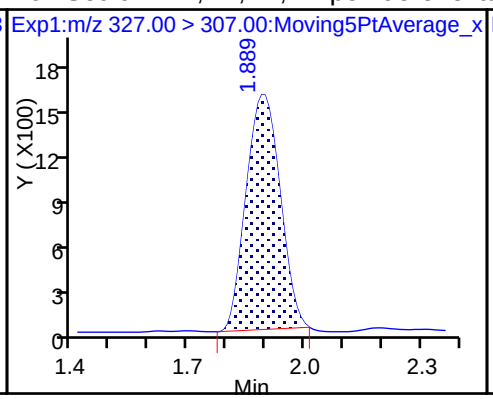
5 Perfluorobutanesulfonic acid



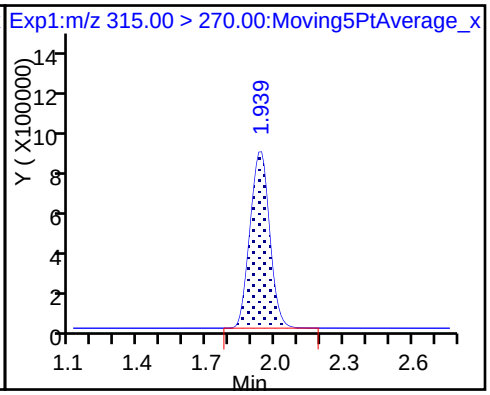
5 Perfluorobutanesulfonic acid



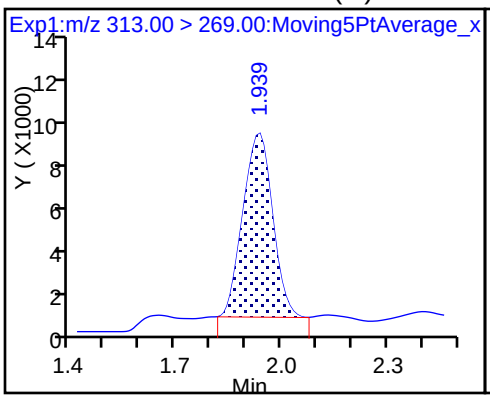
61 Sodium 1H,1H,2H,2H-perfluorohexa



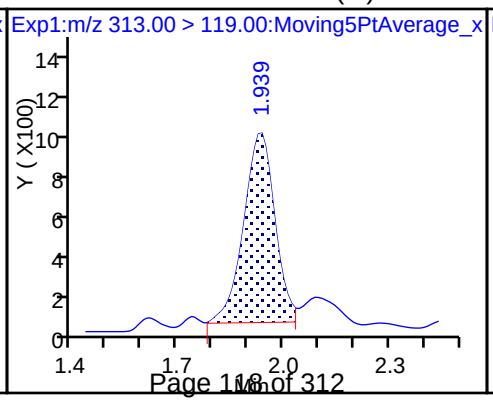
D 7 13C2 PFHxA



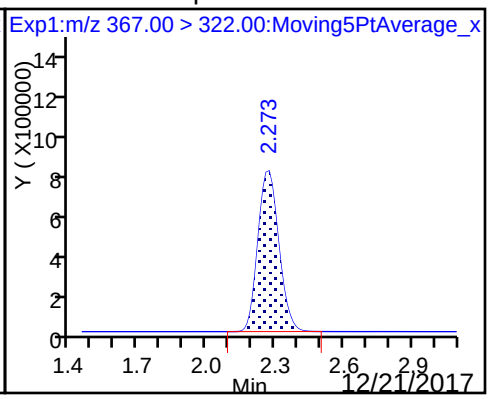
6 Perfluorohexanoic acid (M)



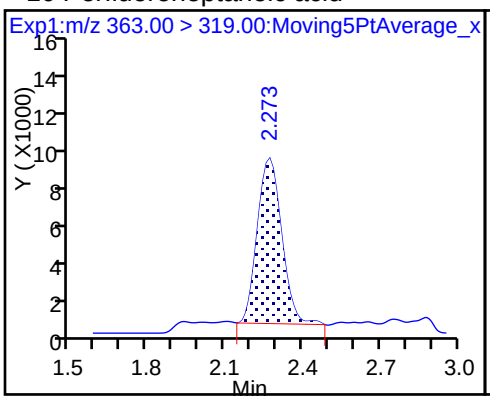
6 Perfluorohexanoic acid (M)



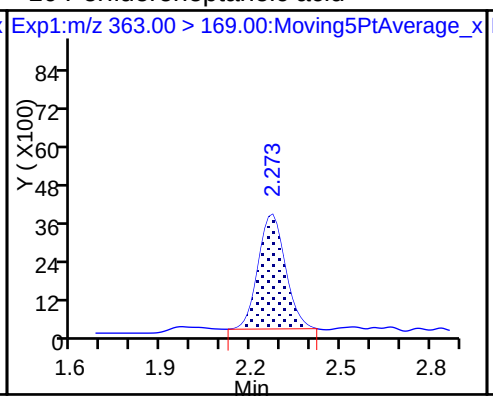
D 9 13C4-PFHpA



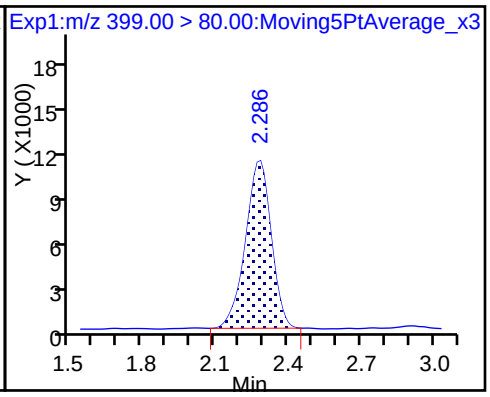
10 Perfluoroheptanoic acid



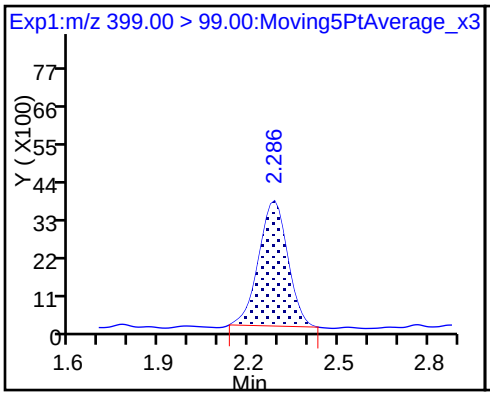
10 Perfluoroheptanoic acid



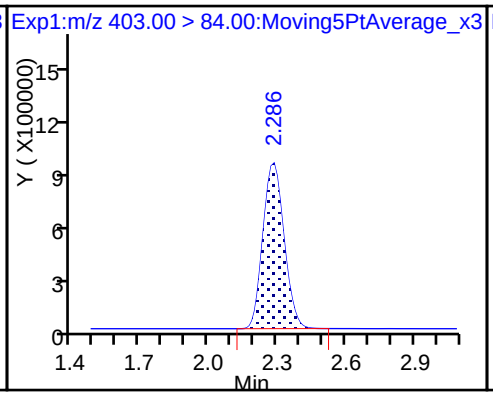
8 Perfluorohexanesulfonic acid



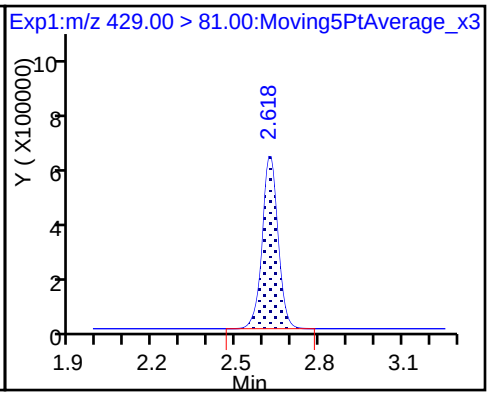
8 Perfluorohexanesulfonic acid



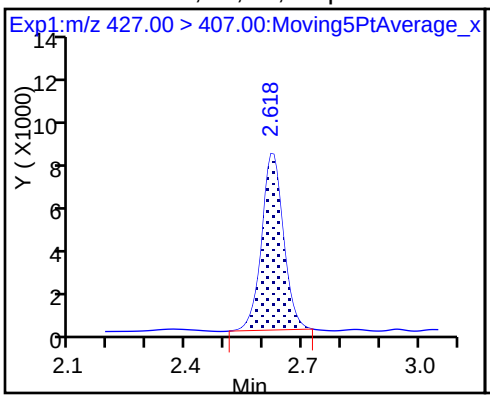
D 11 18O2 PFHxS



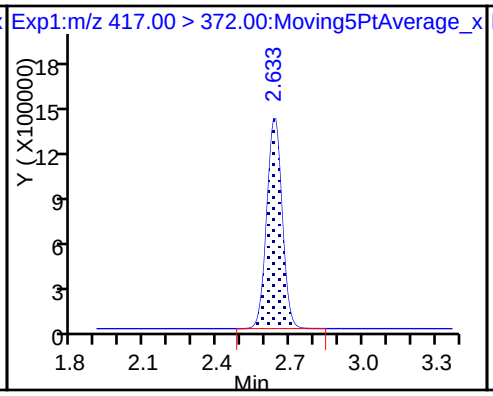
D 12 M2-6:2FTS



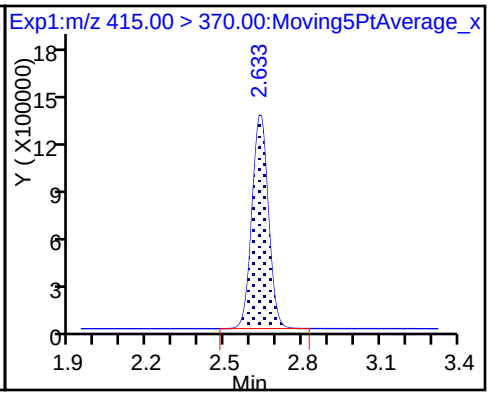
13 Sodium 1H,1H,2H,2H-perfluorooctane



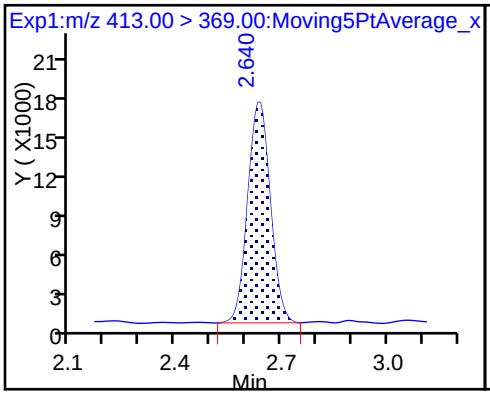
D 14 13C4 PFOA



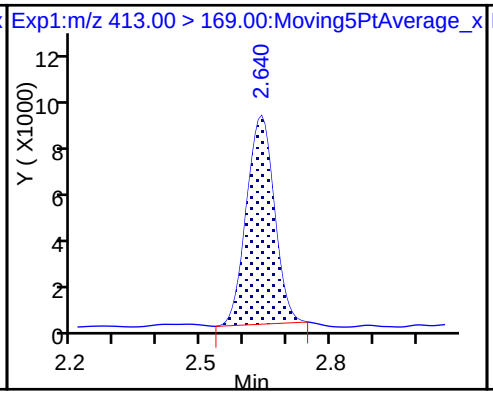
* 62 13C2-PFOA



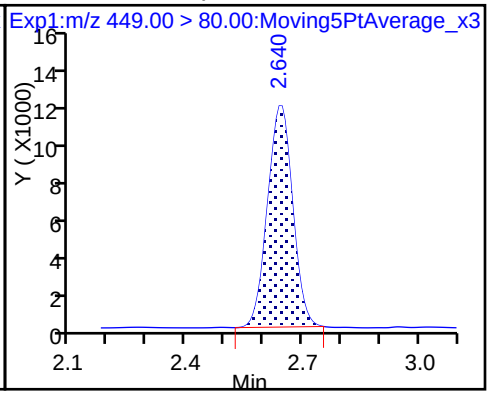
15 Perfluorooctanoic acid



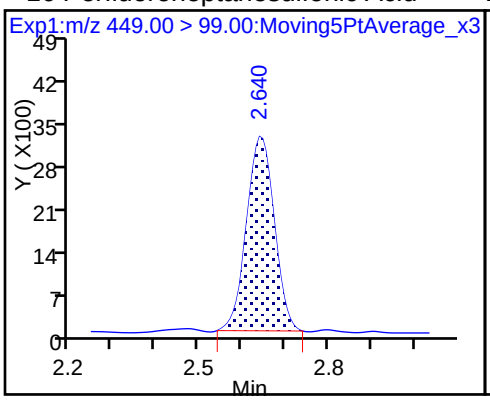
15 Perfluorooctanoic acid



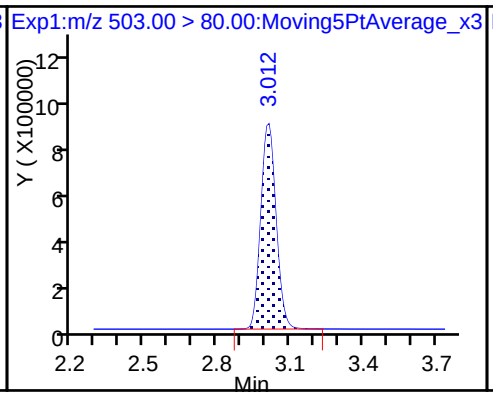
16 Perfluoroheptanesulfonic Acid



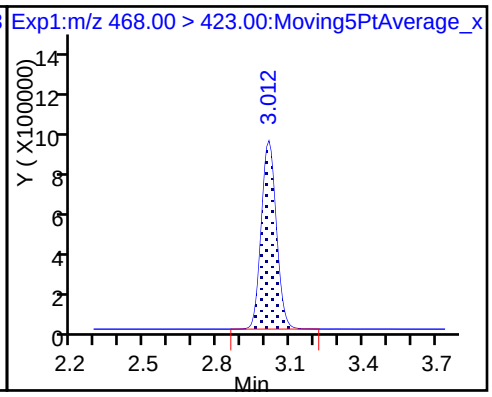
16 Perfluoroheptanesulfonic Acid



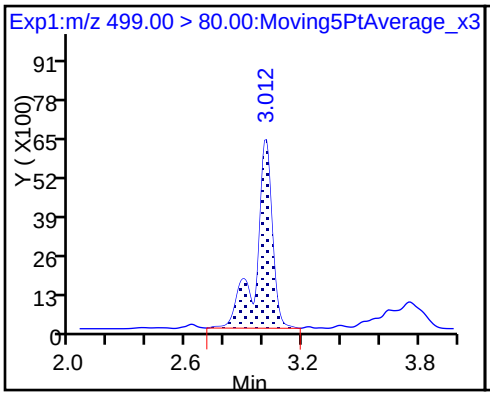
D 18 13C4 PFOS



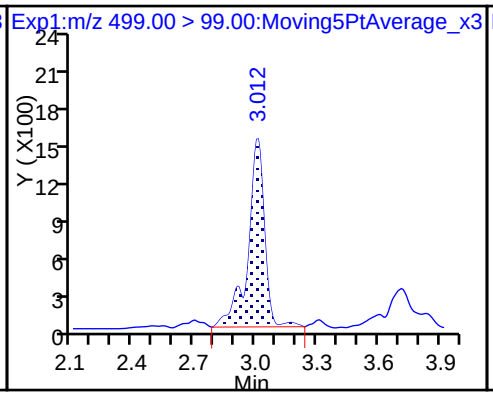
D 19 13C5 PFNA



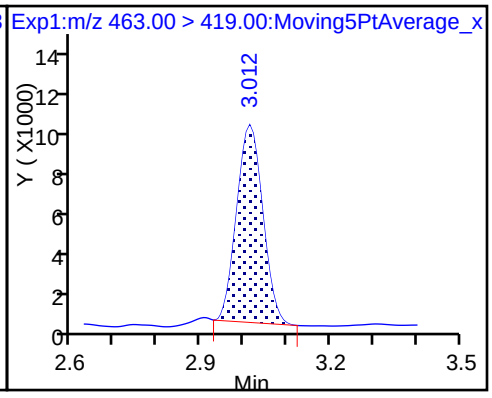
17 Perfluorooctane sulfonic acid



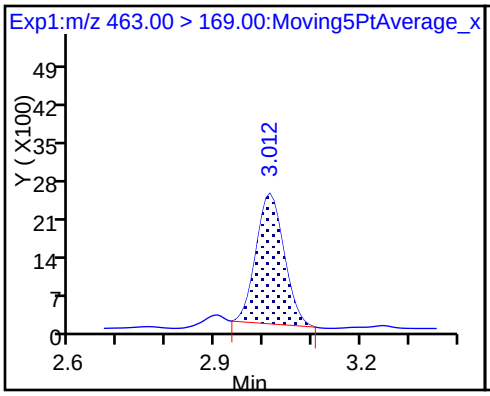
17 Perfluorooctane sulfonic acid



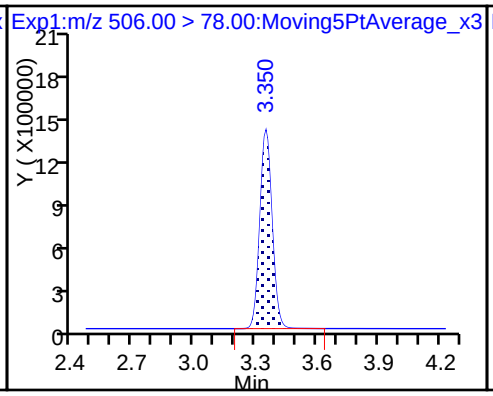
20 Perfluorononanoic acid



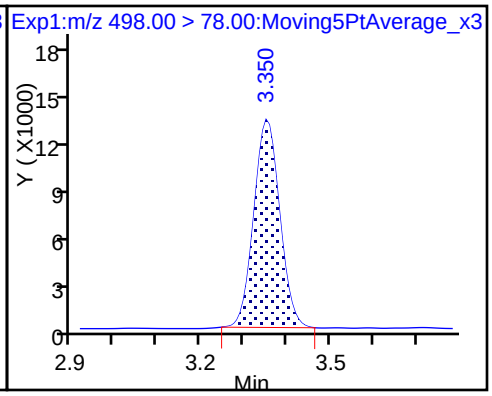
20 Perfluorononanoic acid



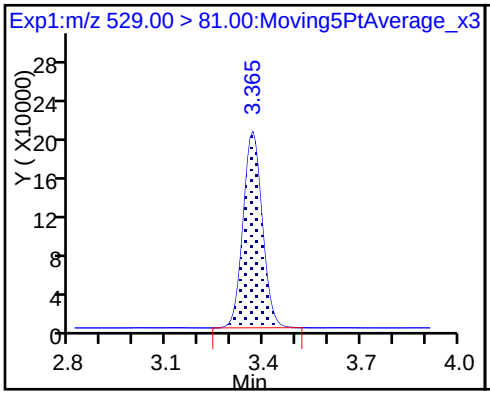
D 21 13C8 FOSA



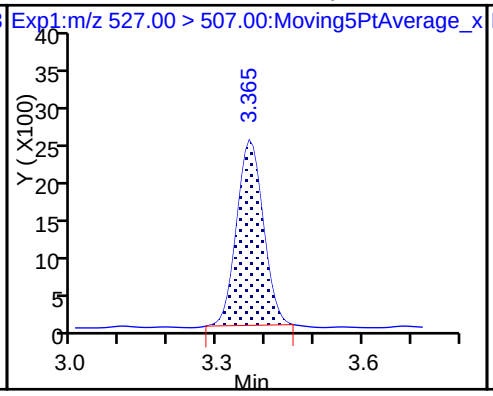
22 Perfluorooctane Sulfonamide



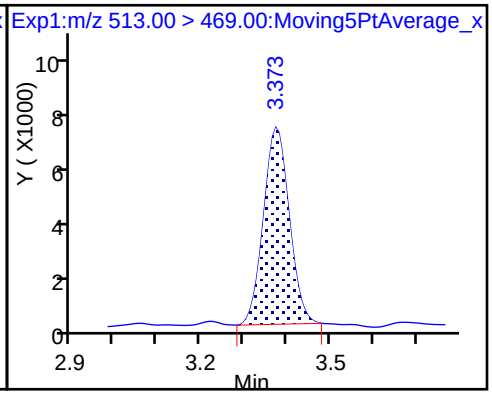
D 26 M2-8:2FTS



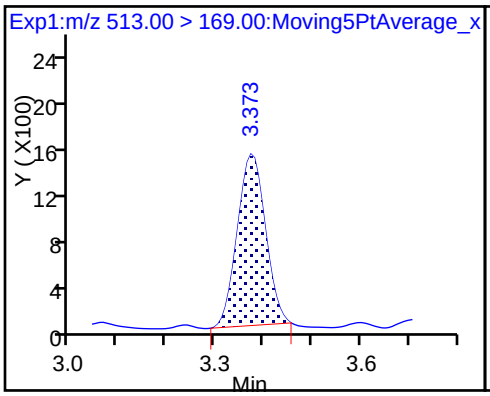
25 Sodium 1H,1H,2H,2H-perfluorodecan



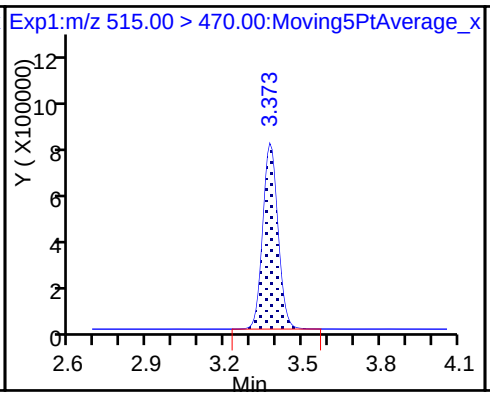
24 Perfluorodecanoic acid



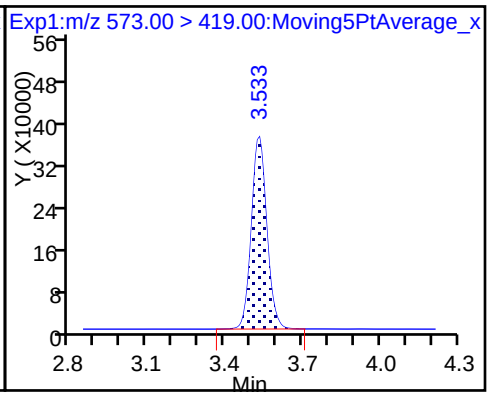
24 Perfluorodecanoic acid



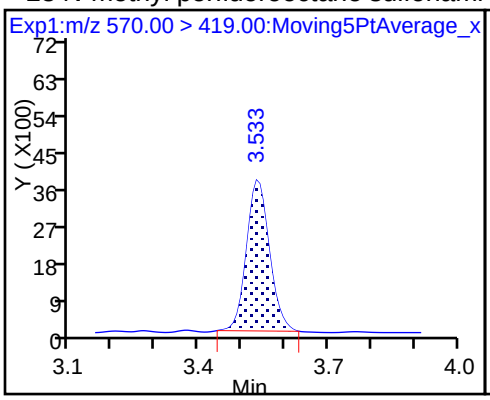
D 23 13C2 PFDA



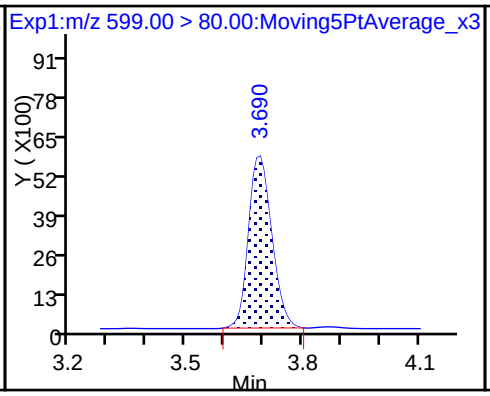
D 27 d3-NMeFOSAA



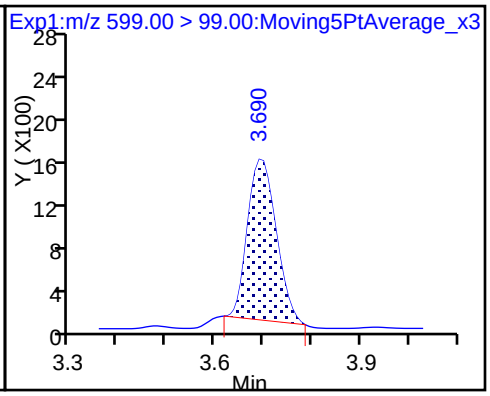
28 N-methyl perfluorooctane sulfonami



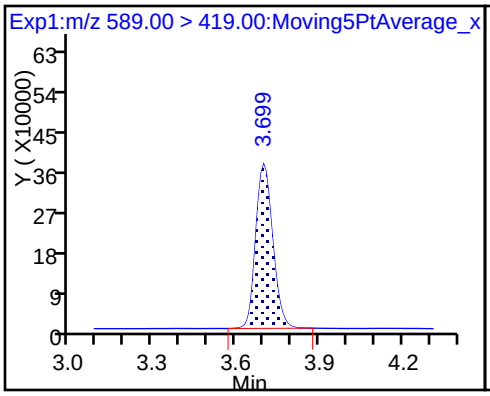
29 Perfluorodecane Sulfonic acid



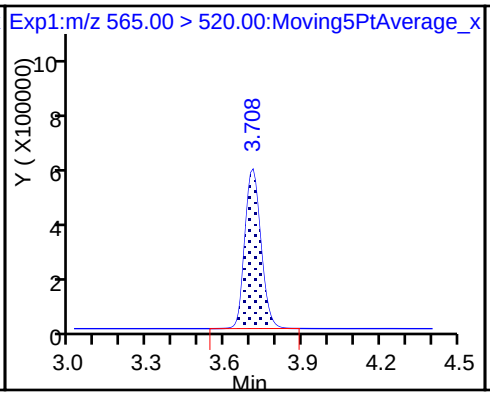
29 Perfluorodecane Sulfonic acid



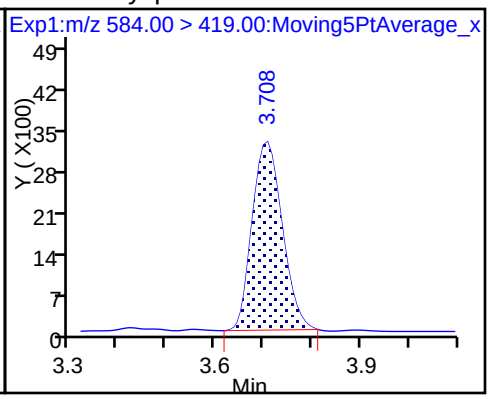
D 32 d5-NEtFOSAA



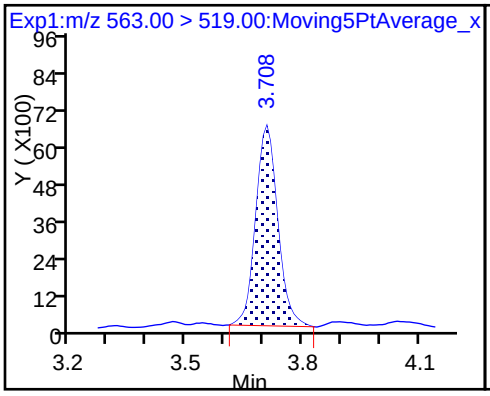
D 30 13C2 PFUnA



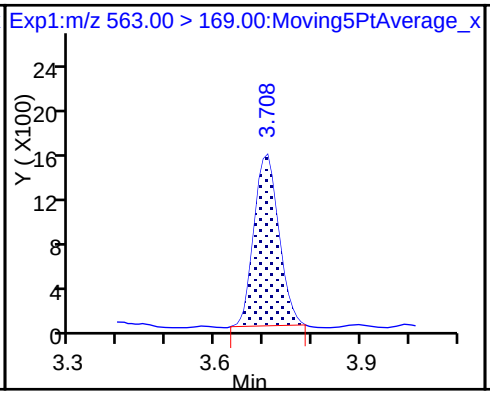
33 N-ethyl perfluorooctane sulfonamid



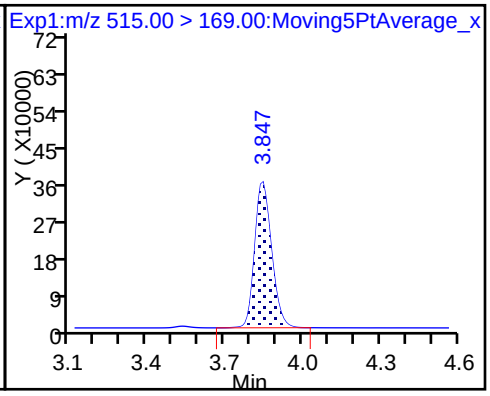
31 Perfluoroundecanoic acid



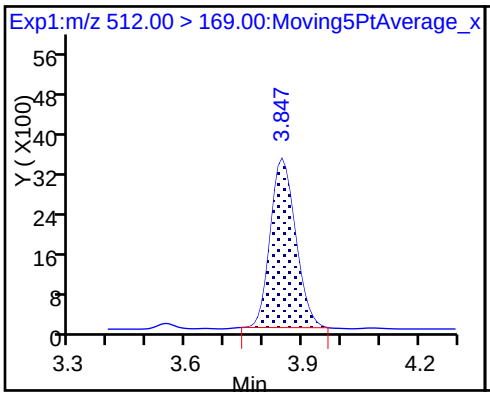
31 Perfluoroundecanoic acid



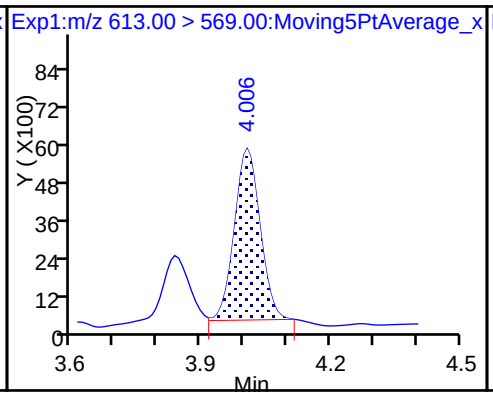
D 34 d-N-MeFOSA-M



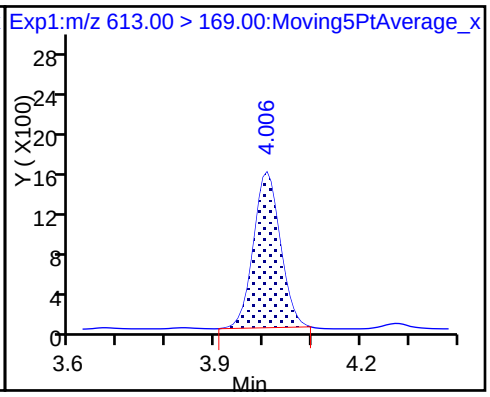
35 MeFOSA



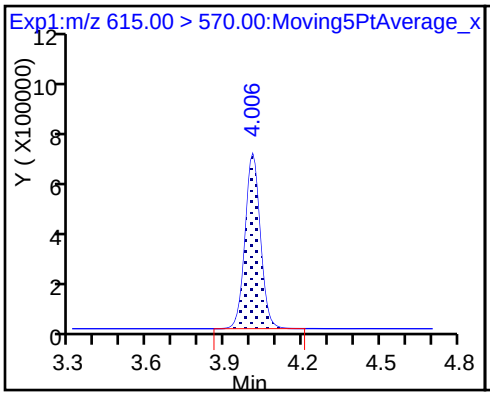
37 Perfluorododecanoic acid



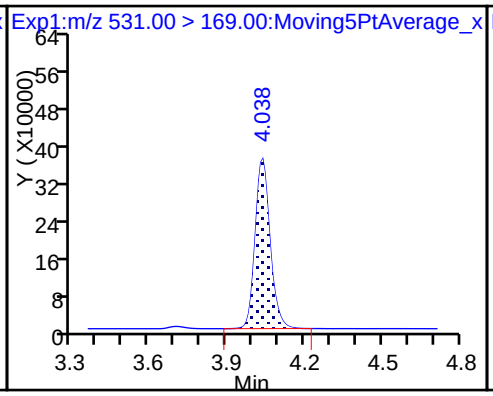
37 Perfluorododecanoic acid



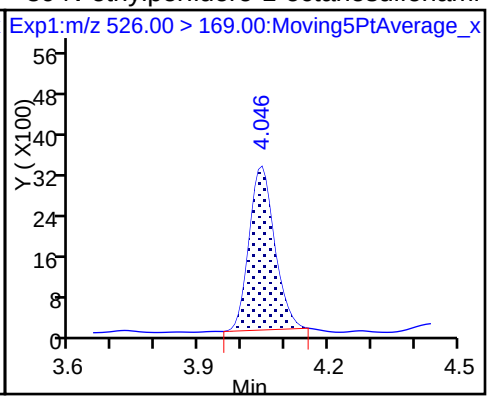
D 36 13C2 PFDoA



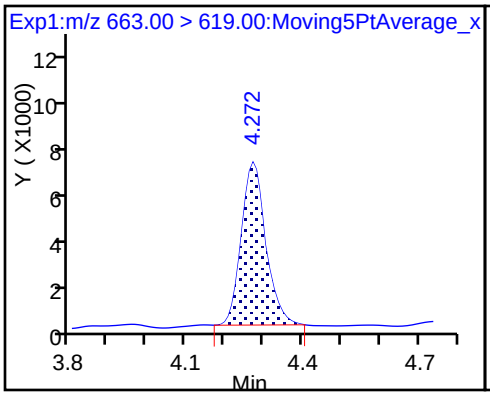
D 38 d-N-EtFOSA-M



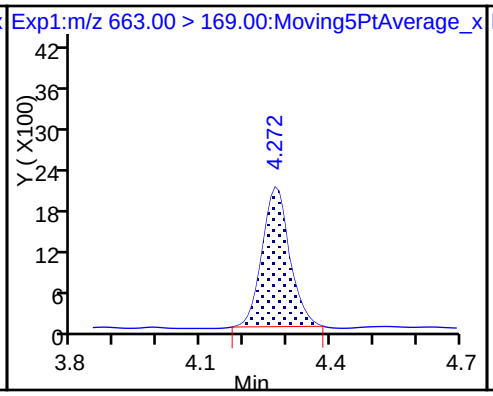
39 N-ethylperfluoro-1-octanesulfonami



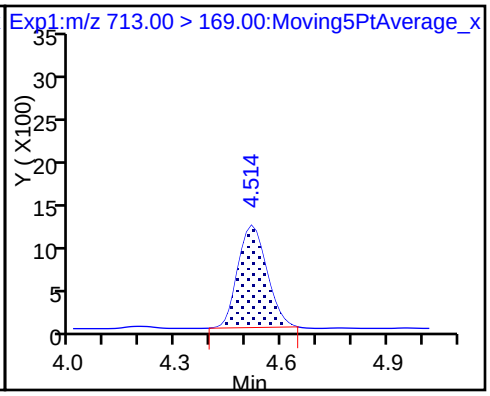
41 Perfluorotridecanoic acid



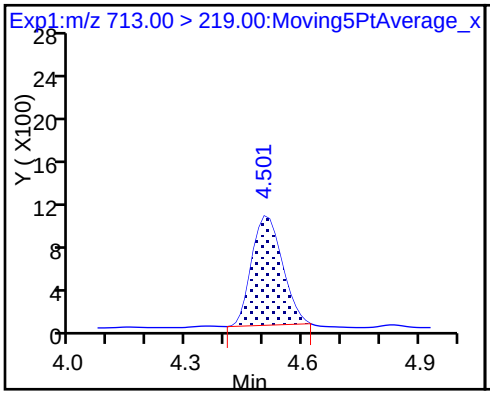
41 Perfluorotridecanoic acid



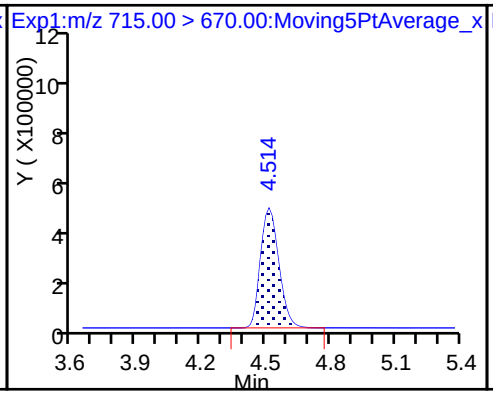
42 Perfluorotetradecanoic acid



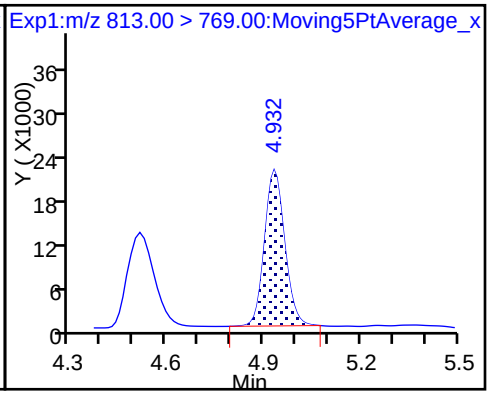
42 Perfluorotetradecanoic acid



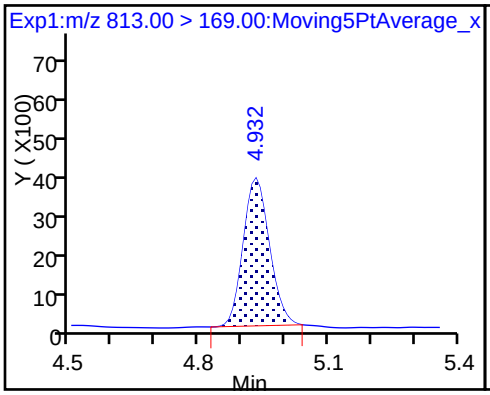
D 43 13C2-PFTeDA



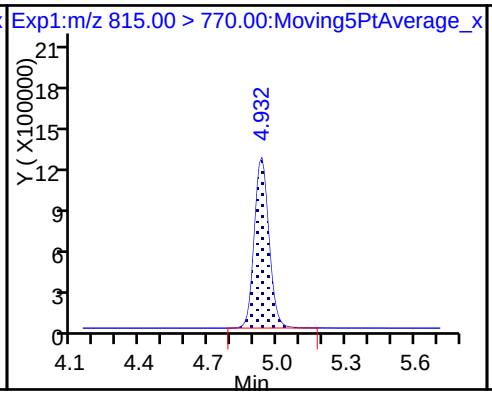
45 Perfluorohexadecanoic acid



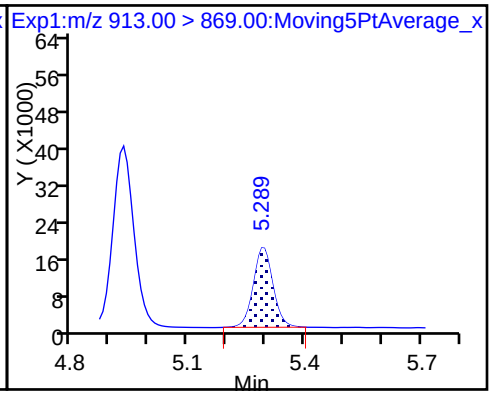
45 Perfluorohexadecanoic acid



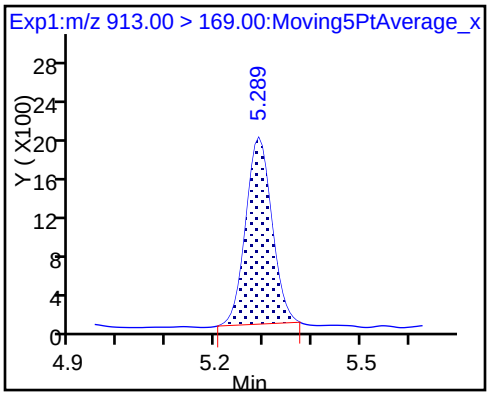
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento

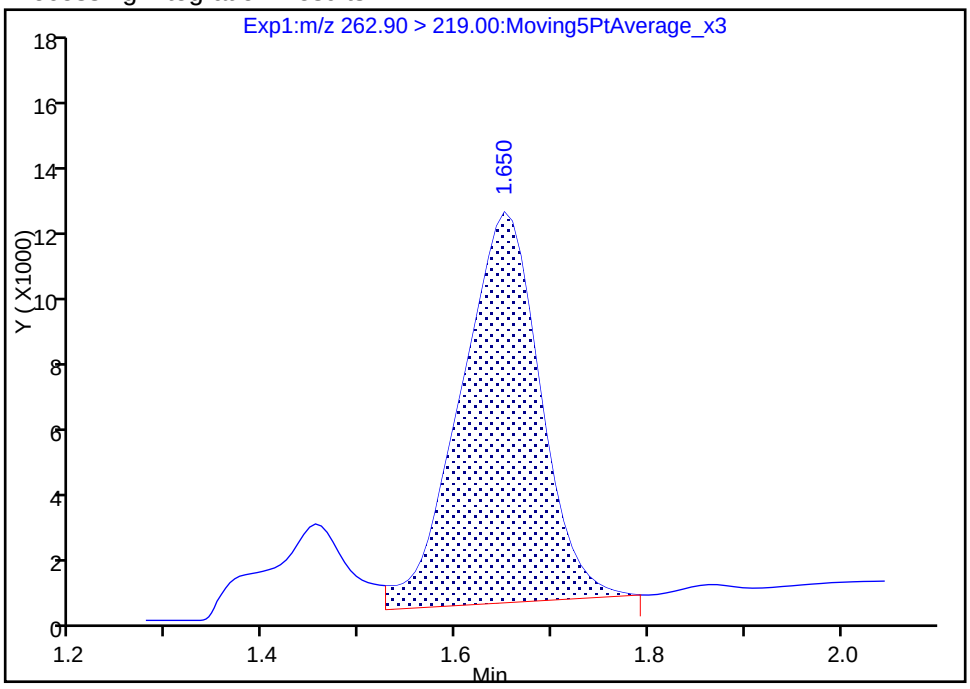
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_002.d
Injection Date: 14-Dec-2017 15:52:32 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

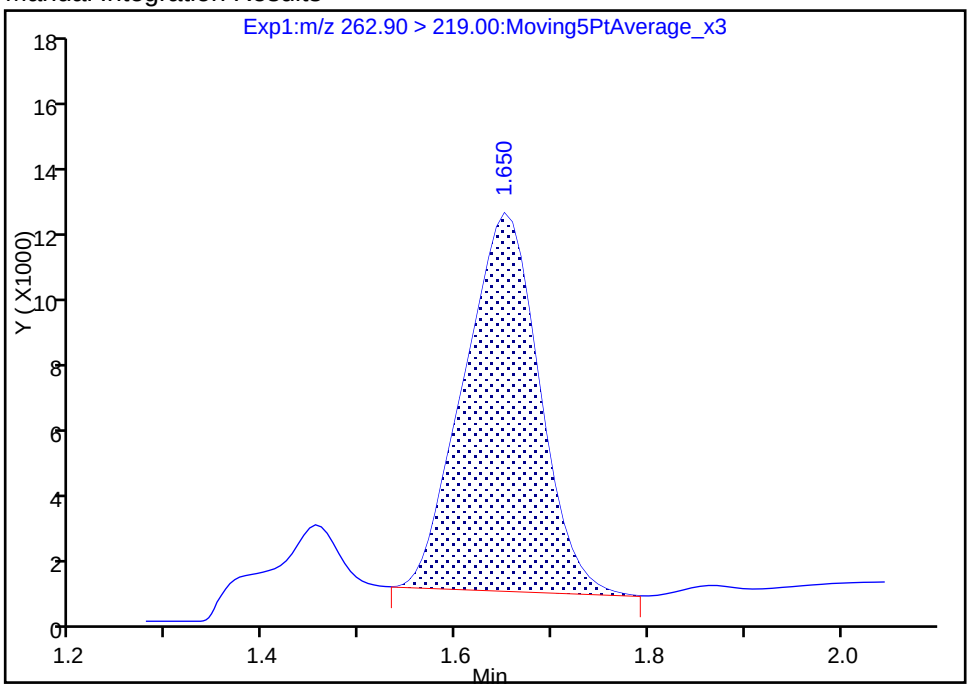
Processing Integration Results

RT: 1.65
Area: 66908
Amount: 0.029448
Amount Units: ng/ml



Manual Integration Results

RT: 1.65
Area: 61413
Amount: 0.027361
Amount Units: ng/ml



Reviewer: phomsophat, 14-Dec-2017 19:05:19
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

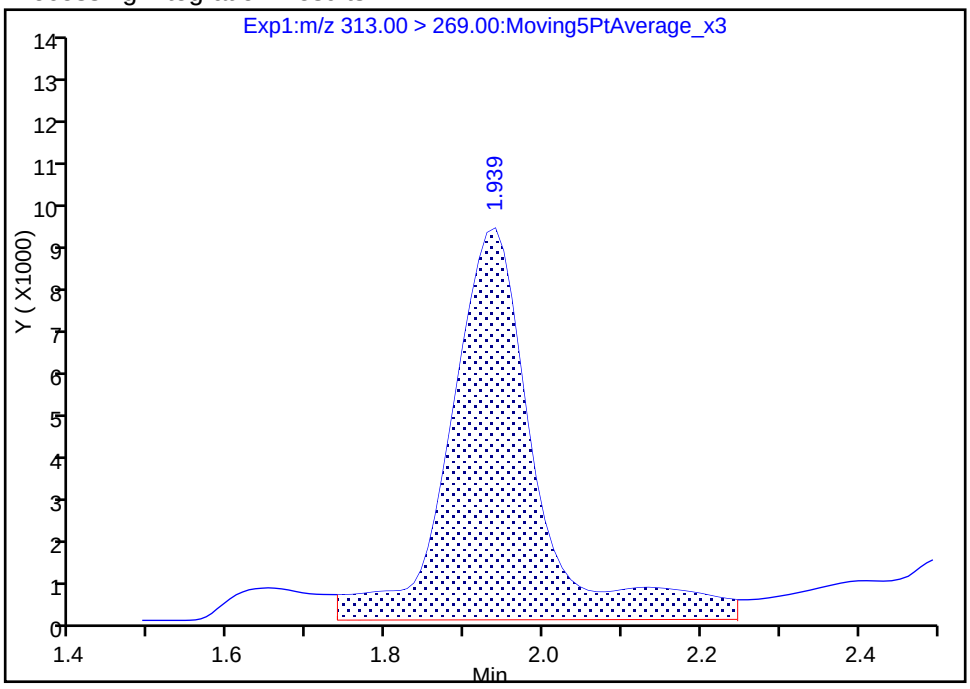
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_002.d
Injection Date: 14-Dec-2017 15:52:32 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

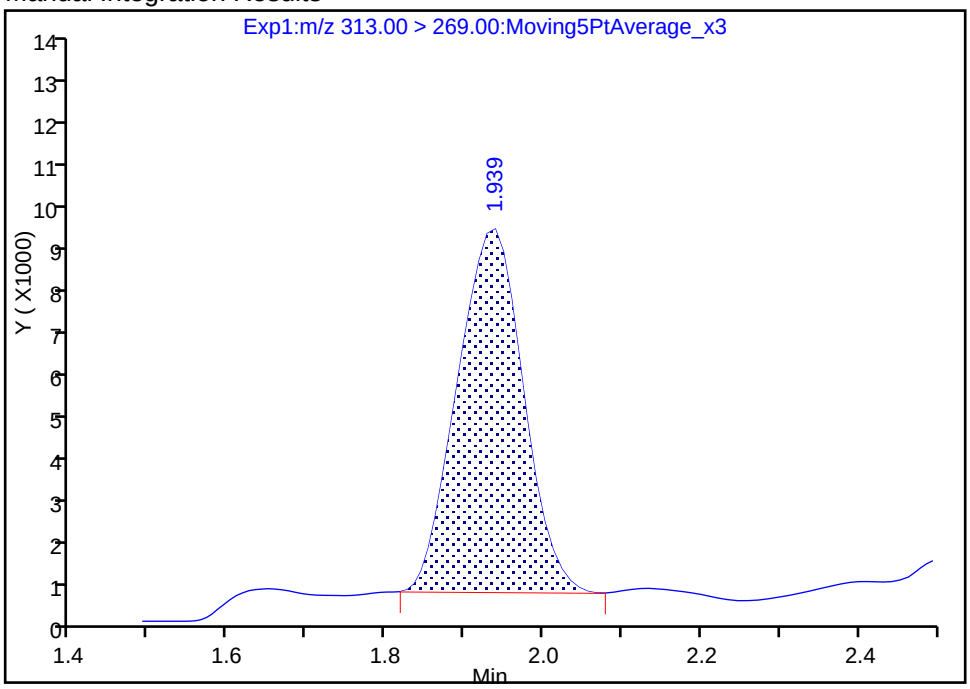
Processing Integration Results

RT: 1.94
Area: 67947
Amount: 0.031777
Amount Units: ng/ml



Manual Integration Results

RT: 1.94
Area: 48556
Amount: 0.023787
Amount Units: ng/ml



Reviewer: phomsophat, 14-Dec-2017 19:06:38
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

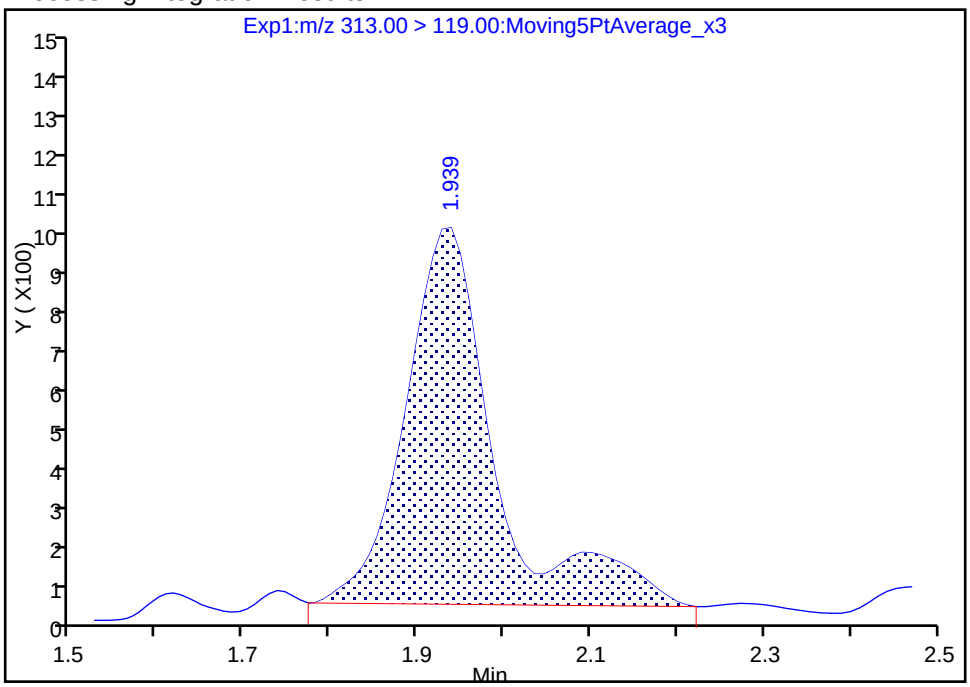
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_002.d
Injection Date: 14-Dec-2017 15:52:32 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

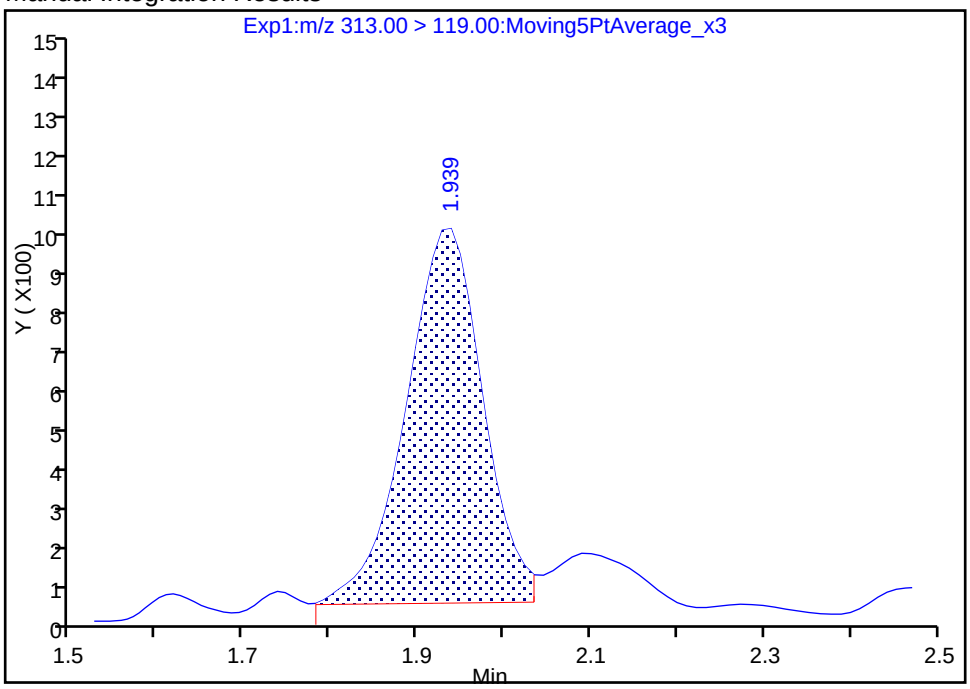
Processing Integration Results

RT: 1.94
Area: 6495
Amount: 0.031777
Amount Units: ng/ml



Manual Integration Results

RT: 1.94
Area: 5560
Amount: 0.023787
Amount Units: ng/ml



Reviewer: phomsophat, 14-Dec-2017 19:07:13
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_003.d
Lims ID: IC L2 Full
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Dec-2017 16:00:29 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L2-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub19

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 09:54:04 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK021

First Level Reviewer: phomsophat Date: 14-Dec-2017 19:08:41

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.407	1.406	0.001	0.534	8743813	2.45		98.1	29010	
2 Perfluorobutyric acid										
212.90 > 169.00	1.407	1.408	-0.001	1.000	158249	0.0502		100	31.6	
D 3 13C5-PFPeA										
267.90 > 223.00	1.652	1.656	-0.004	0.627	5127910	2.44		97.7	95169	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.652	1.656	-0.004	1.000	121653	0.0533		107	200	
D 47 13C3-PFBS										
301.90 > 83.00	1.688	1.690	-0.002	0.640	102803	2.28		98.1	4810	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.688	1.692	-0.004	1.000	148001	0.0456		103	818	
298.90 > 99.00	1.688	1.692	-0.004	1.000	62964		2.35(1.25-3.74)	103	472	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.902	1.902	0.0	1.000	23793	0.0421		90.1	1444	
D 7 13C2 PFHxA										
315.00 > 270.00	1.933	1.938	-0.005	0.733	5355991	2.44		97.7	49236	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.943	1.939	0.004	1.005	115321	0.0546		109	234	
313.00 > 119.00	1.943	1.939	0.004	1.005	10457		11.03(5.03-15.10)	109	219	
D 9 13C4-PFHpA										
367.00 > 322.00	2.265	2.272	-0.007	0.859	5218966	2.54		101	33542	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.278	2.273	0.005	1.006	102931	0.0476		95.1	265	
363.00 > 169.00	2.278	2.273	0.005	1.006	40809		2.52(1.13-3.40)	95.1	296	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.291	2.285	0.006	1.000	147022	0.0520		114	1378	
399.00 > 99.00	2.291	2.285	0.006	1.000	46875		3.14(1.50-4.49)	114	534	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.291	2.286	0.005	0.869	6061138	2.37		100	34713	
D 12 M2-6:2FTS										
429.00 > 81.00	2.622	2.625	-0.003	0.995	2871195	2.57		108	76787	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.622	2.625	-0.003	1.000	94318	0.0496		105	2805	
D 14 13C4 PFOA										
417.00 > 372.00	2.637	2.637	0.0	1.000	6410213	2.58		103	54350	
* 62 13C2-PFOA										
415.00 > 370.00	2.637	2.638	-0.001		6091732	2.50			43509	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.637	2.640	-0.003	1.000	139282	0.0511		102	331	
413.00 > 169.00	2.637	2.640	-0.003	1.000	74620		1.87(0.84-2.52)	102	584	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.644	2.644	0.0	1.000	111971	0.0468		98.4	3808	
449.00 > 99.00	2.644	2.644	0.0	1.000	34391		3.26(1.94-5.82)	98.4	1398	
D 18 13C4 PFOS										
503.00 > 80.00	3.016	3.014	0.002	1.144	3873442	2.40		100	28740	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.016	3.015	0.001	1.000	78532	0.0456		98.3	251	
499.00 > 99.00	3.016	3.015	0.001	1.000	20158		3.90(2.31-6.93)	98.3	224	
D 19 13C5 PFNA										
468.00 > 423.00	3.016	3.015	0.001	1.144	4127641	2.51		100	42763	
20 Perfluorononanoic acid										
463.00 > 419.00	3.016	3.017	-0.001	1.000	79821	0.0485		97.0	535	
463.00 > 169.00	3.016	3.017	-0.001	1.000	18144		4.40(1.90-5.69)	97.0	427	
D 21 13C8 FOSA										
506.00 > 78.00	3.354	3.354	0.0	1.272	5699209	2.46		98.4	34416	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.354	3.356	-0.002	1.000	112083	0.0520		104	3971	
D 26 M2-8:2FTS										
529.00 > 81.00	3.369	3.368	0.001	1.278	832531	2.24		93.7	18954	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.369	3.369	0.0	1.000	20897	0.0494		103	1358	
D 23 13C2 PFDA										
515.00 > 470.00	3.376	3.379	-0.003	1.281	3210389	2.39		95.7	36378	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.376	3.379	-0.003	1.000	59856	0.0482		96.5	767	
513.00 > 169.00	3.376	3.379	-0.003	1.000	11503		5.20(2.36-7.09)	96.5	583	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.535	3.535	0.0	1.341	1570241	2.45		98.2	24092	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.535	3.538	-0.003	1.000	32295	0.0492		98.5	257	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.694	3.692	0.002	1.000	45529	0.0473		98.1	2229	
599.00 > 99.00	3.694	3.692	0.002	1.000	14456		3.15(1.39-4.16)	98.1	919	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.703	3.704	-0.001	1.405	1614490	2.53		101	5671	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.712	3.709	0.003	1.408	2418614	2.37		94.8	37941	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.712	3.710	0.002	1.002	29947	0.0480		96.1	1197	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.712	3.711	0.001	1.000	45561	0.0519		104	510	
563.00 > 169.00	3.712	3.711	0.001	1.000	10407		4.38(0.00-0.00)	104	895	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.851	3.850	0.001	1.461	1616850	2.38		95.3	3917	
35 MeFOSA										
512.00 > 169.00	3.851	3.856	-0.005	1.000	32859	0.0507		101	1205	
D 36 13C2 PFDoA										
615.00 > 570.00	4.010	4.008	0.002	1.521	2785823	2.55		102	46061	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.010	4.008	0.002	1.000	55543	0.0512		102	234	
613.00 > 169.00	4.002	4.008	-0.006	0.998	11565		4.80(2.13-6.40)	102	1005	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.042	4.039	0.003	1.533	1535279	2.44		97.8	3648	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.050	4.047	0.003	1.002	28314	0.0446		89.3	875	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.277	4.275	0.002	1.000	60766	0.0494		98.8	833	
663.00 > 169.00	4.277	4.275	0.002	1.000	20662		2.94(1.25-3.76)	98.8	1201	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.519	4.519	0.0	1.714	2917905	2.47		98.7	27627	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.519	4.519	0.0	1.000	14857	0.0509		102	825	
713.00 > 219.00	4.505	4.519	-0.014	0.997	10258		1.45(0.71-2.13)	102	468	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.934	4.935	-0.001	1.871	5533473	2.55		102	17868	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.934	4.935	-0.001	1.000	138082	0.0478		95.6	110	
813.00 > 169.00	4.934	4.935	-0.001	1.000	26016		5.31(2.86-8.58)	95.6	750	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.299	5.299	0.0	1.000	122697	0.0491		98.3	43.6	
913.00 > 169.00	5.299	5.299	0.0	1.000	15794		7.77(0.00-0.00)	98.3	321	

Reagents:

LCPFC_LL2_00002 Amount Added: 1.00 Units: mL

Report Date: 15-Dec-2017 09:54:05 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_003.d

Injection Date: 14-Dec-2017 16:00:29 Instrument ID: A8_N

Lims ID: IC L2 Full

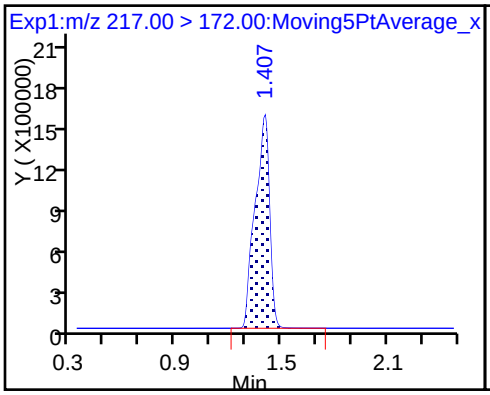
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3

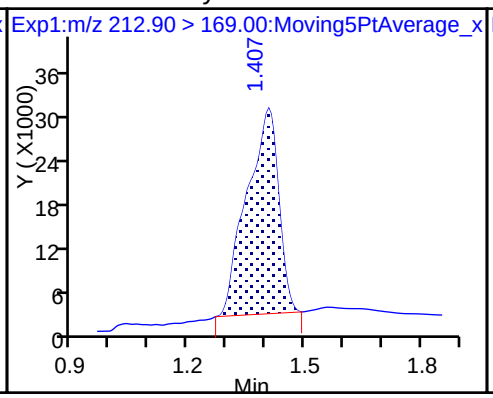
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

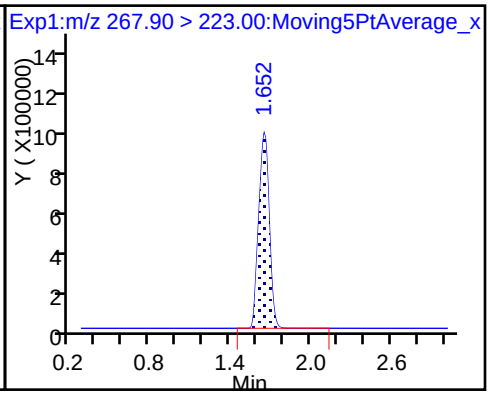
D 1 13C4 PFBA



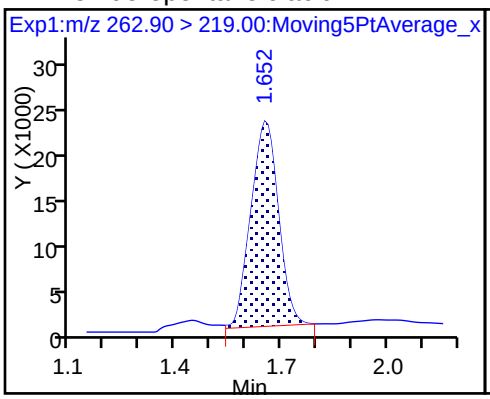
2 Perfluorobutyric acid



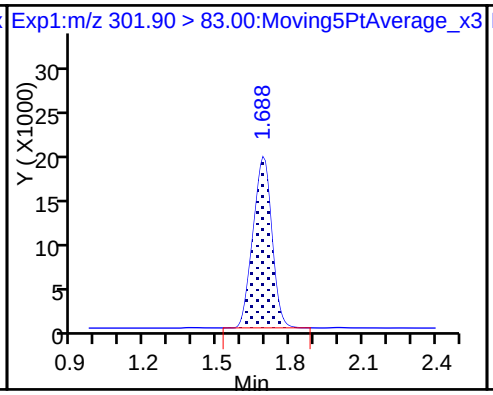
D 3 13C5-PFPeA



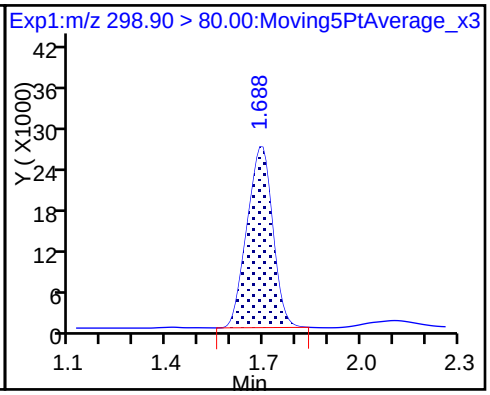
4 Perfluoropentanoic acid



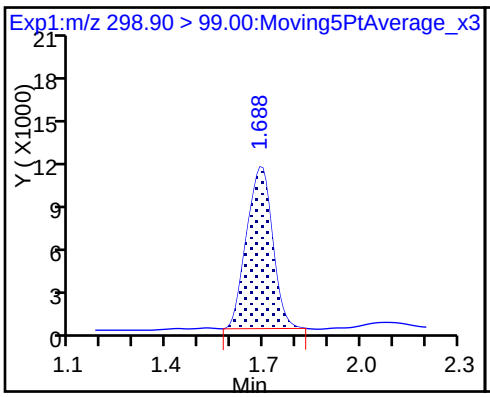
D 47 13C3-PFBS



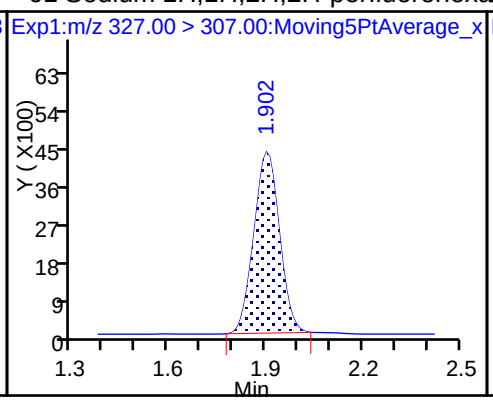
5 Perfluorobutanesulfonic acid



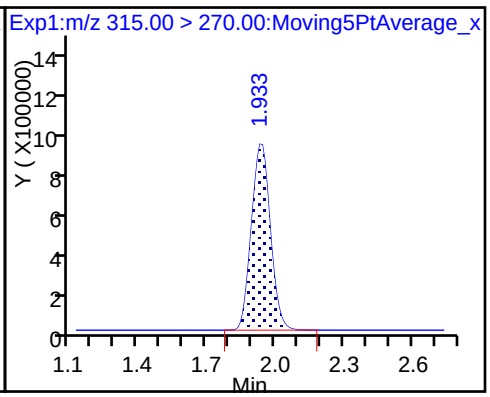
5 Perfluorobutanesulfonic acid



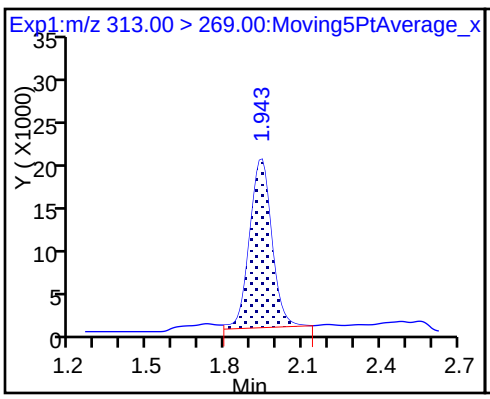
61 Sodium 1H,1H,2H,2H-perfluorohexa



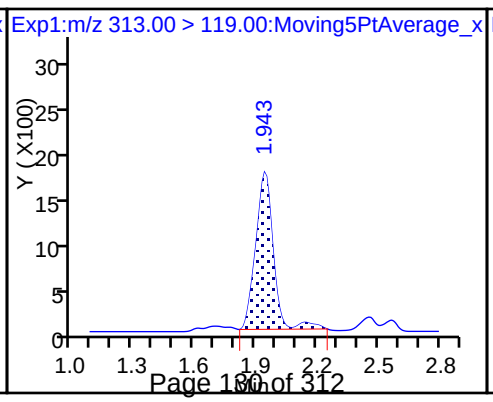
D 7 13C2 PFHxA



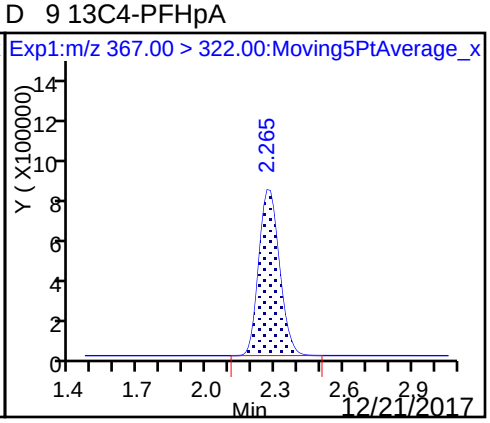
6 Perfluorohexanoic acid



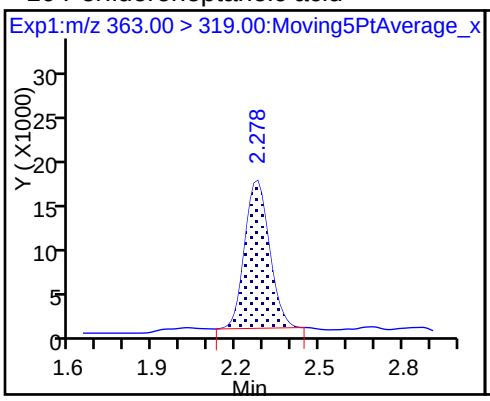
6 Perfluorohexanoic acid



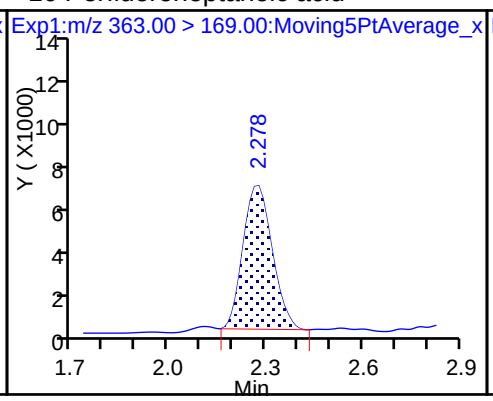
D 9 13C4-PFHpA



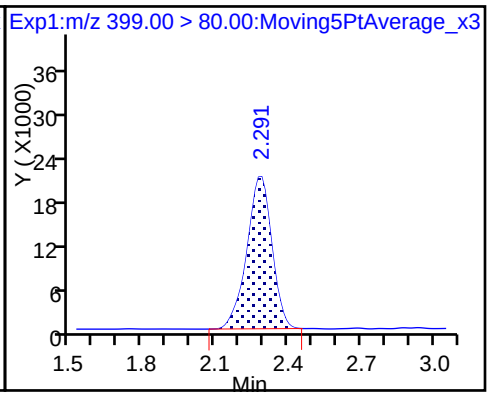
10 Perfluoroheptanoic acid



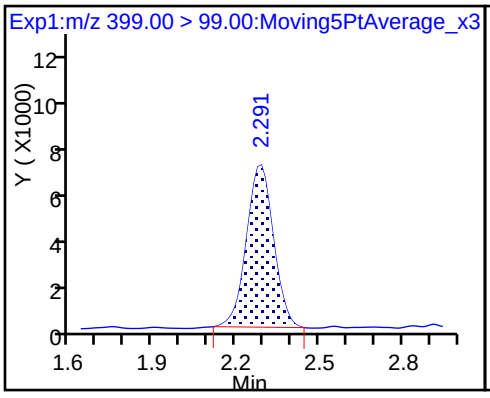
10 Perfluoroheptanoic acid



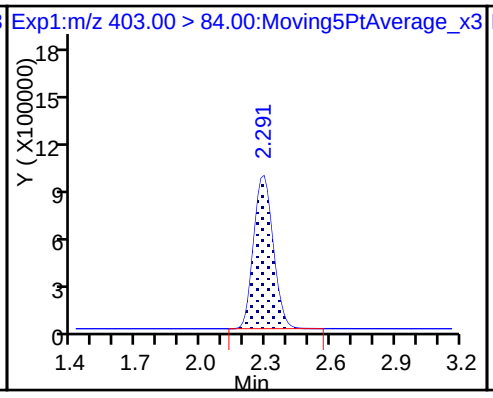
8 Perfluorohexanesulfonic acid



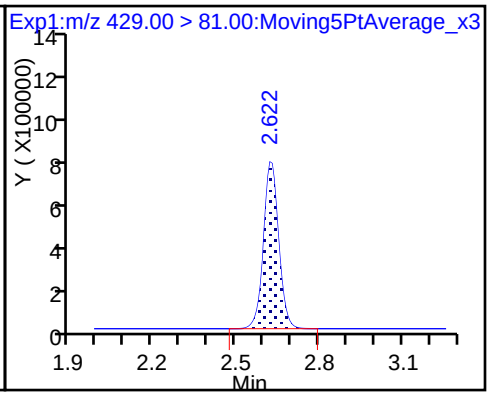
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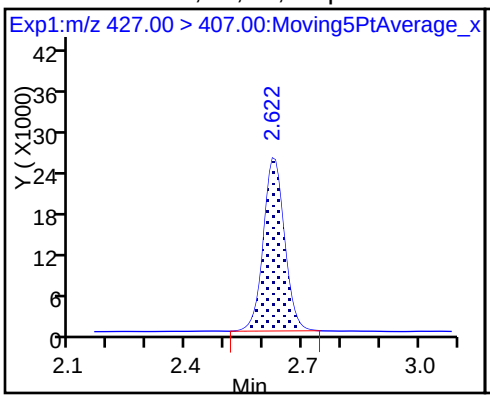
D 11 18O2 PFHxS



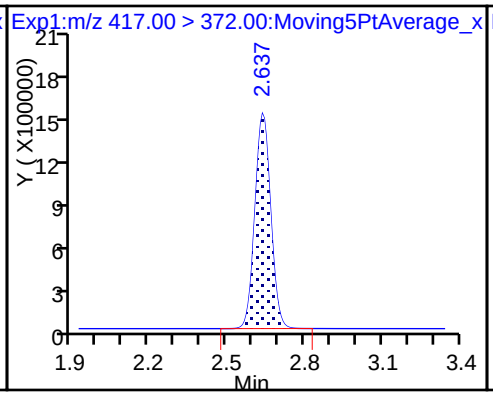
D 12 M2-6:2FTS



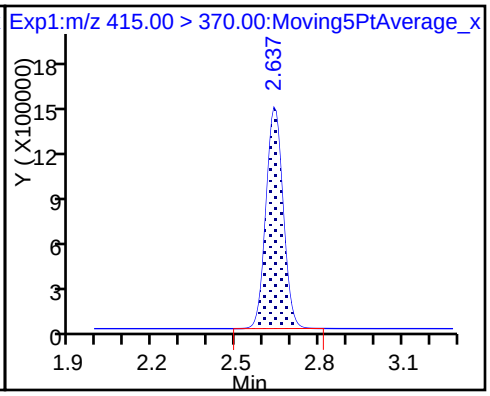
13 Sodium 1H,1H,2H,2H-perfluorooctane



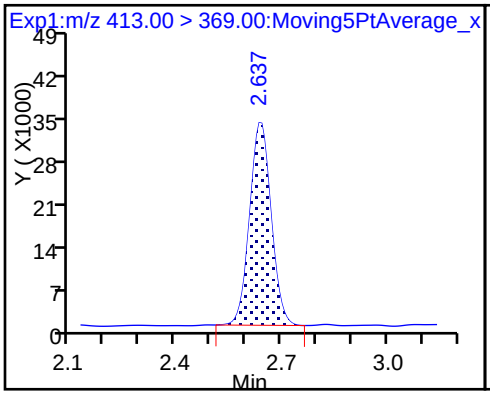
D 14 13C4 PFOA



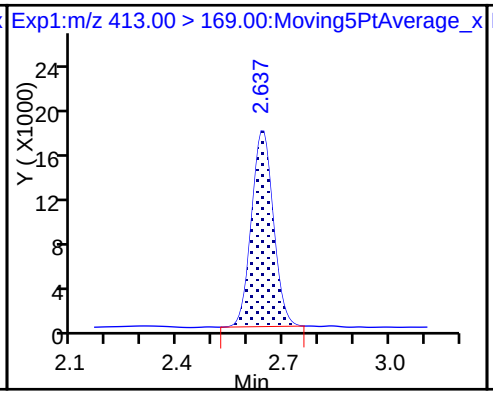
* 62 13C2-PFOA



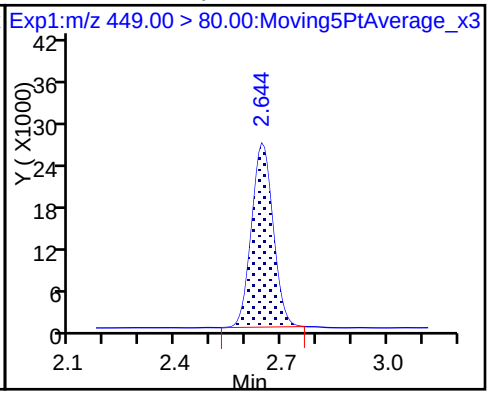
15 Perfluorooctanoic acid



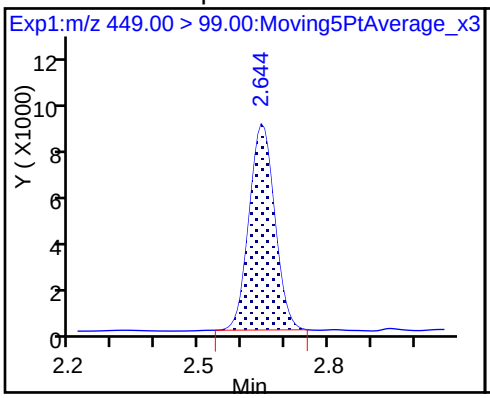
15 Perfluorooctanoic acid



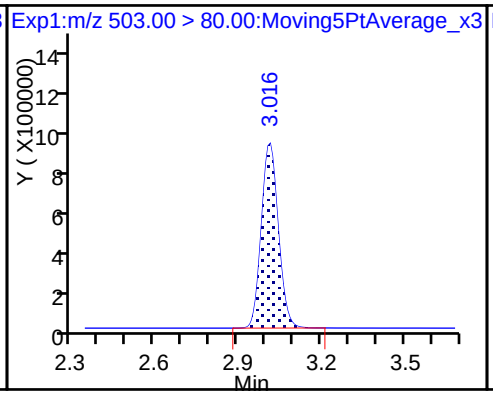
16 Perfluoroheptanesulfonic Acid



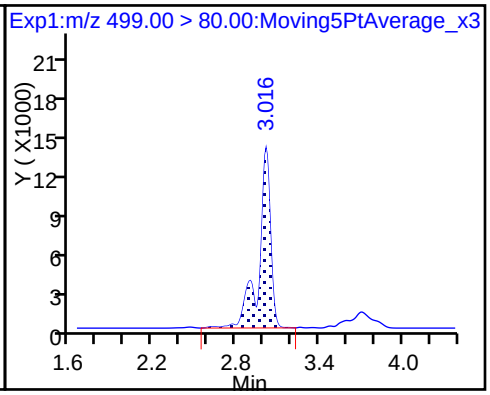
16 Perfluoroheptanesulfonic Acid



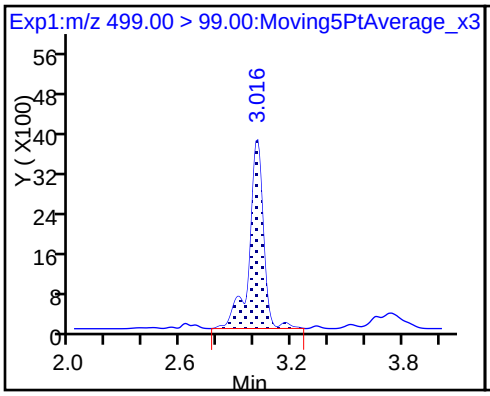
D 18 13C4 PFOS



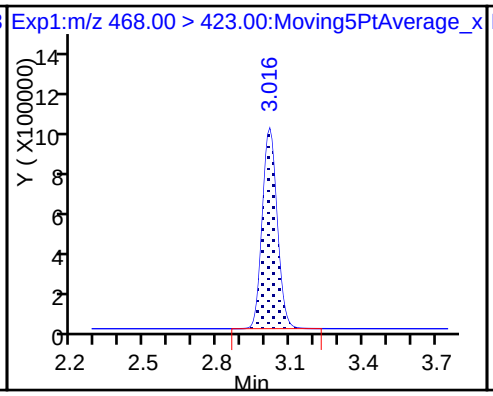
17 Perfluorooctane sulfonic acid



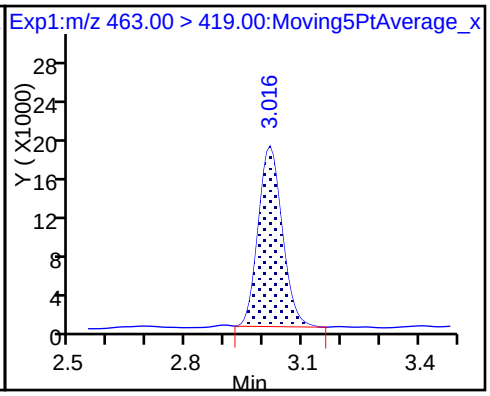
17 Perfluorooctane sulfonic acid



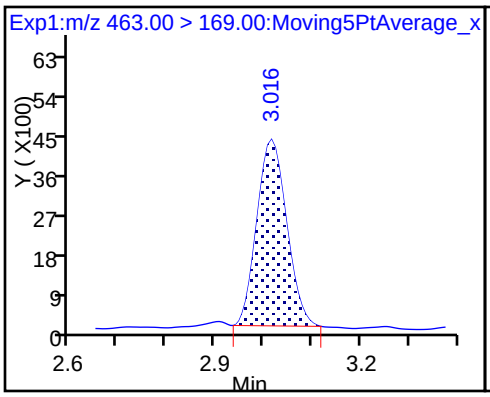
D 19 13C5 PFNA



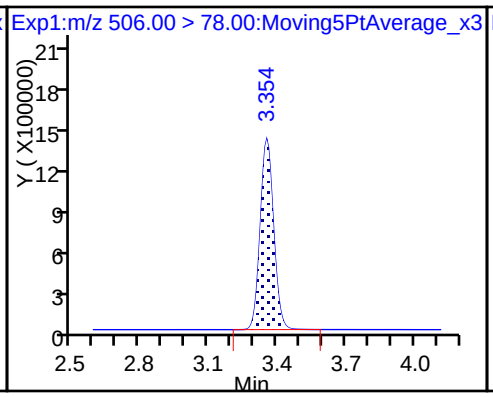
20 Perfluorononanoic acid



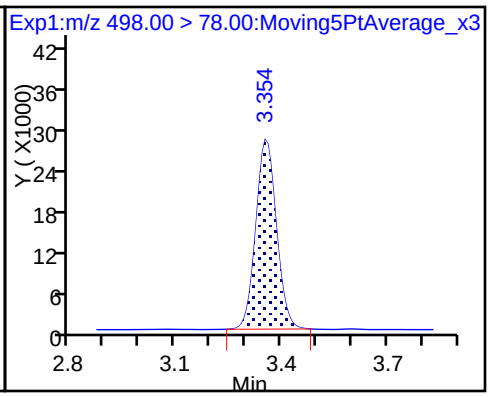
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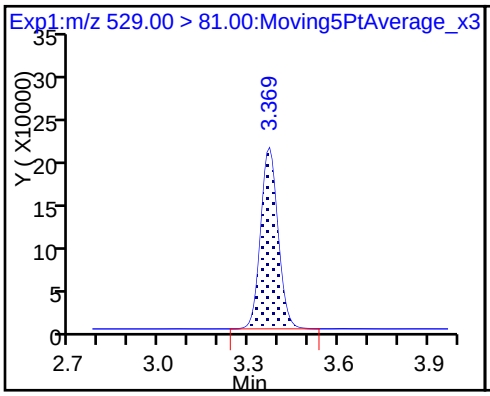
D 21 13C8 FOSA



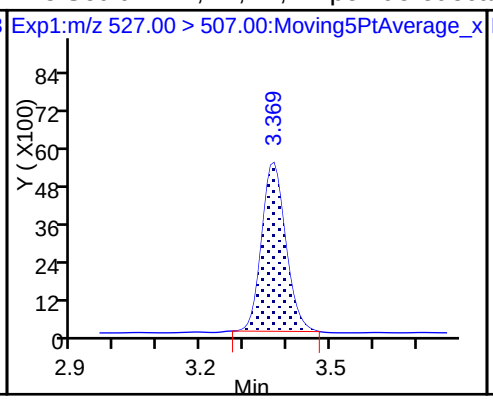
22 Perfluorooctane Sulfonamide



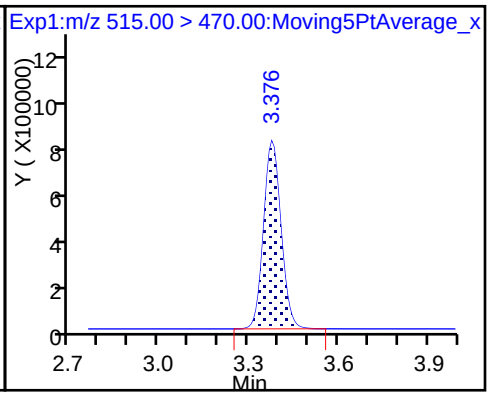
D 26 M2-8:2FTS



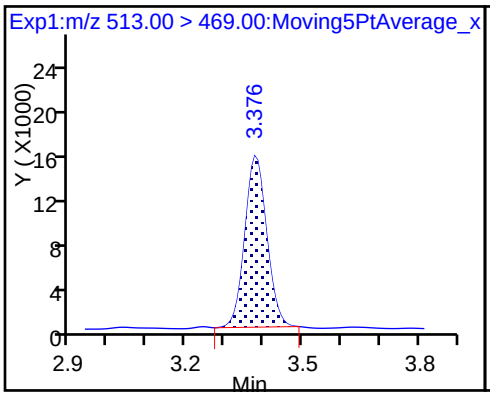
25 Sodium 1H,1H,2H,2H-perfluorodecane



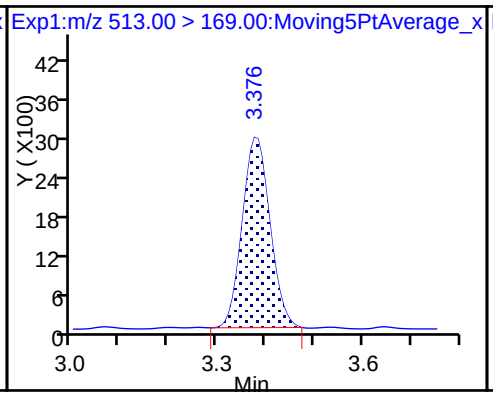
D 23 13C2 PFDA



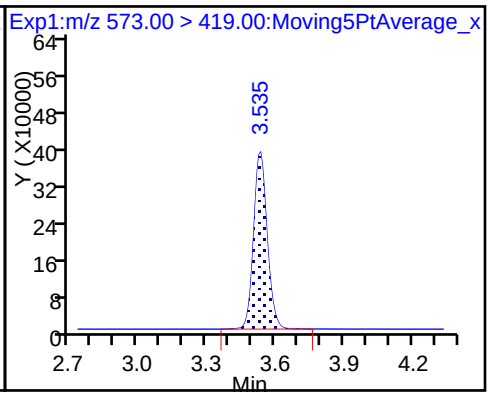
24 Perfluorodecanoic acid



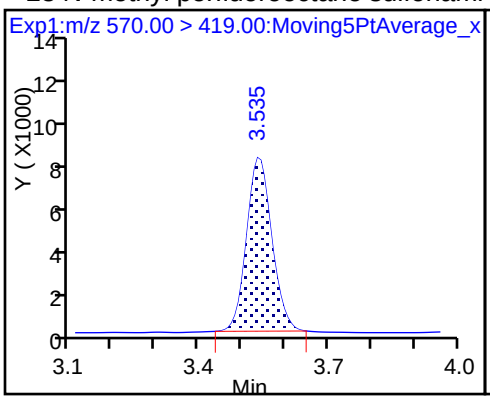
24 Perfluorodecanoic acid



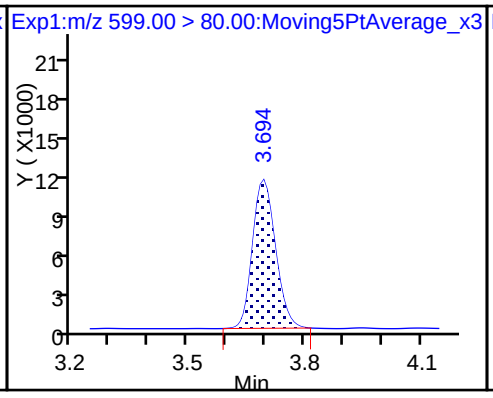
D 27 d3-NMeFOSAA



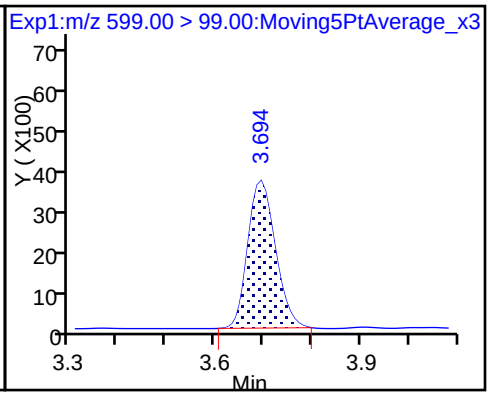
28 N-methyl perfluorooctane sulfonami



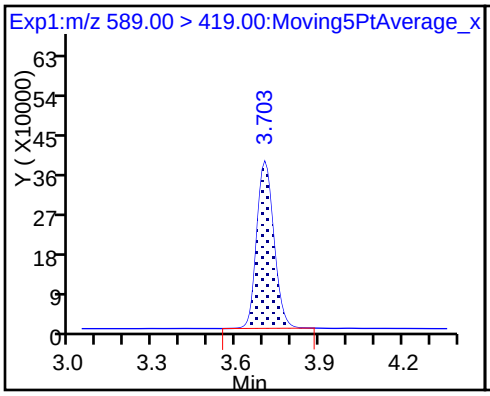
29 Perfluorodecane Sulfonic acid



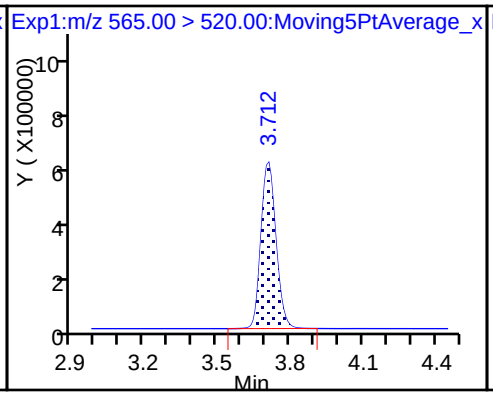
29 Perfluorodecane Sulfonic acid



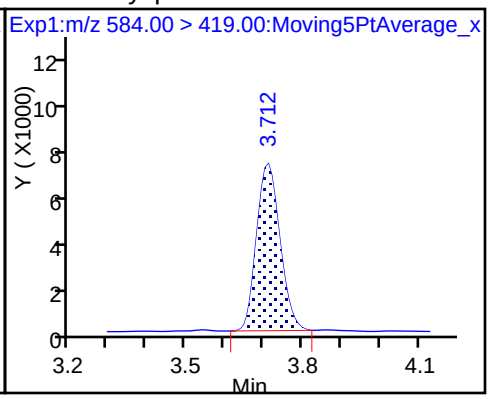
D 32 d5-NEtFOSAA



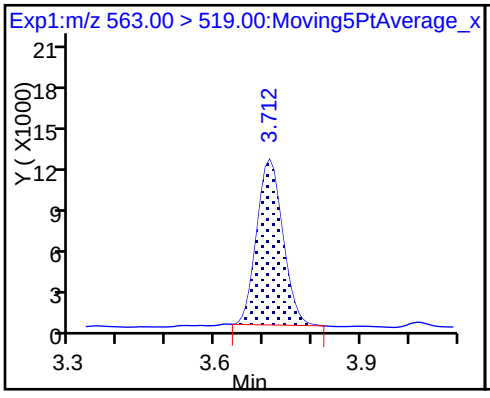
D 30 13C2 PFUnA



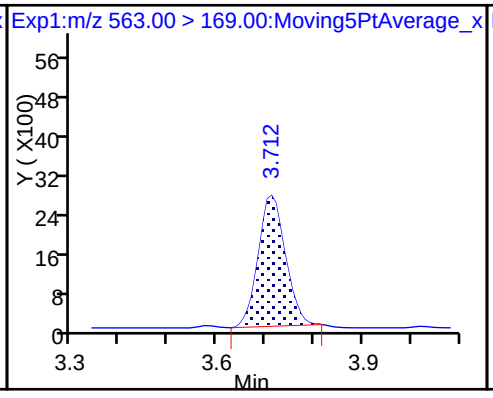
33 N-ethyl perfluorooctane sulfonamid



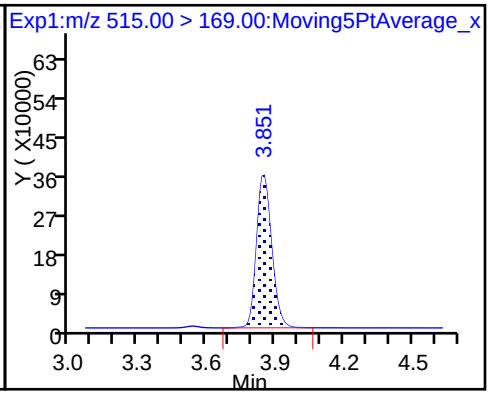
31 Perfluoroundecanoic acid



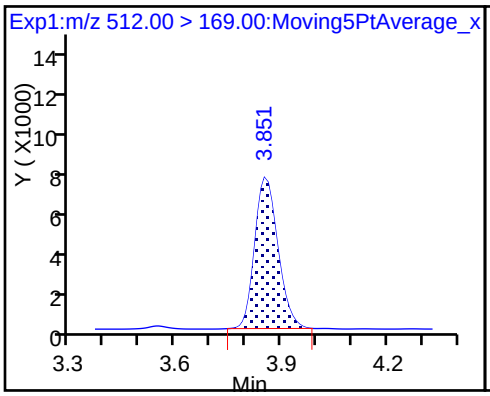
31 Perfluoroundecanoic acid



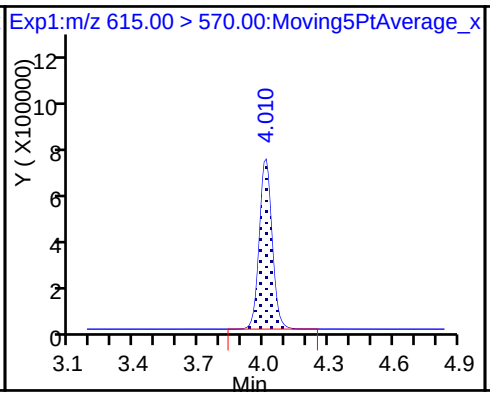
D 34 d-N-MeFOSA-M



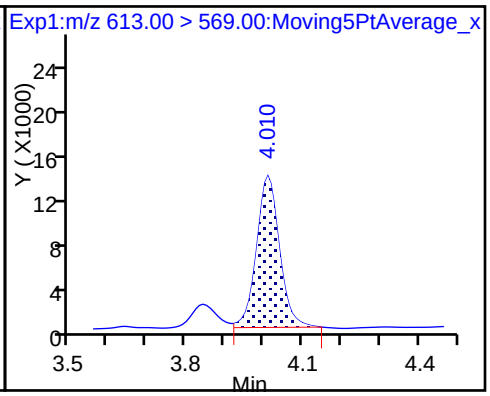
35 MeFOSA



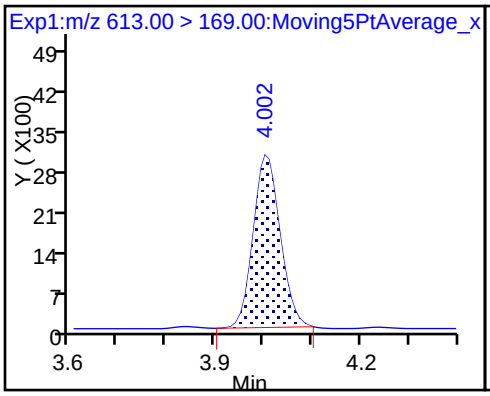
D 36 13C2 PFDoA



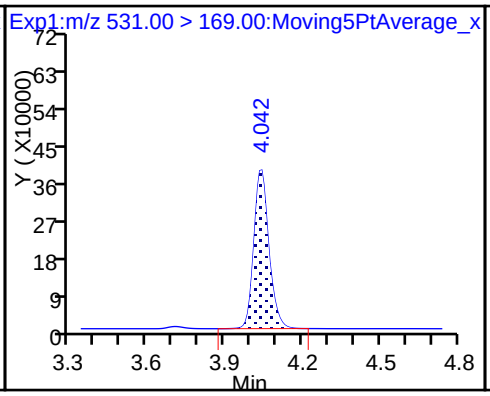
37 Perfluorododecanoic acid



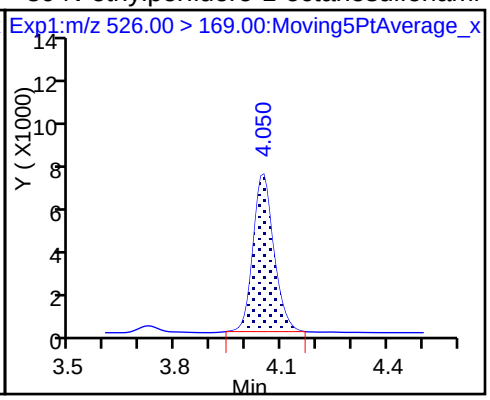
37 Perfluorododecanoic acid



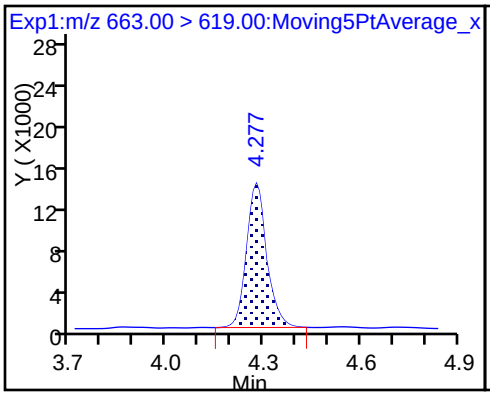
D 38 d-N-EtFOSA-M



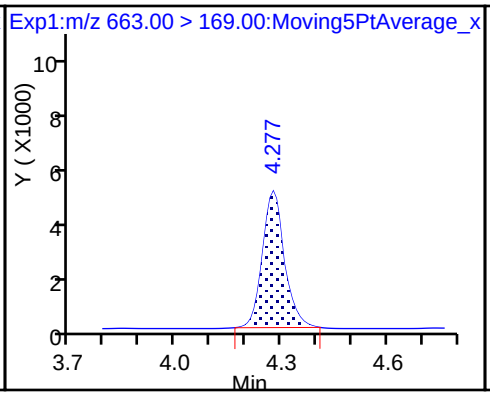
39 N-ethylperfluoro-1-octanesulfonami



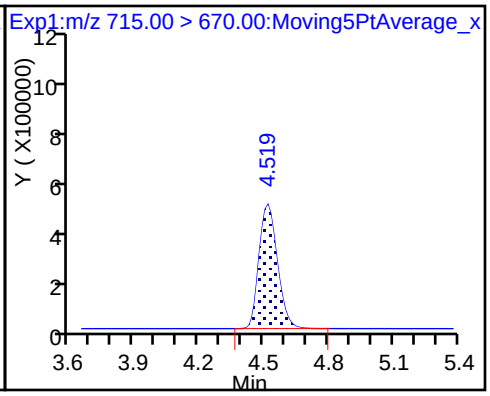
41 Perfluorotridecanoic acid



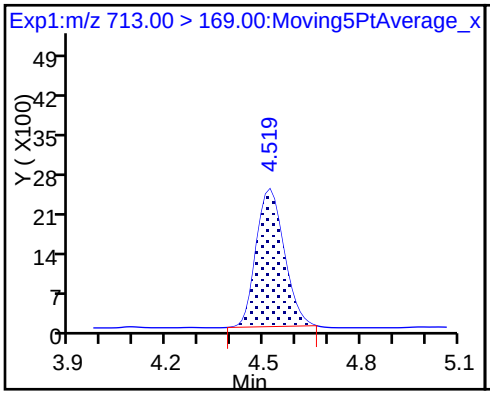
41 Perfluorotridecanoic acid



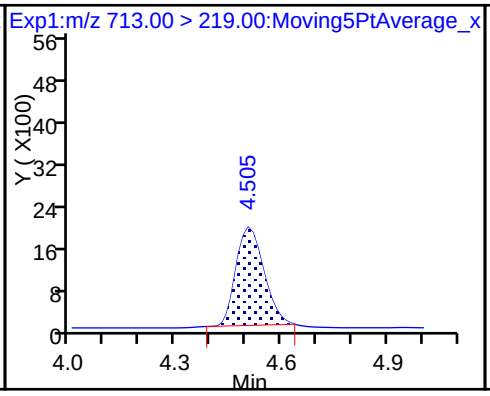
D 43 13C2-PFTeDA



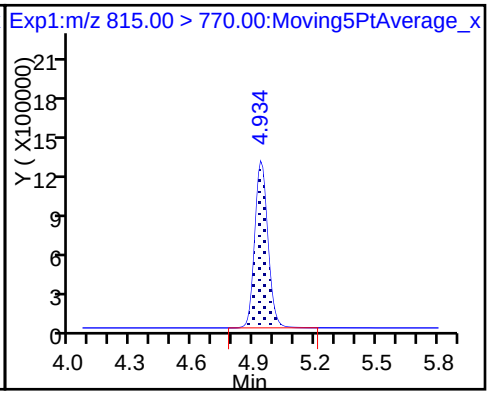
42 Perfluorotetradecanoic acid



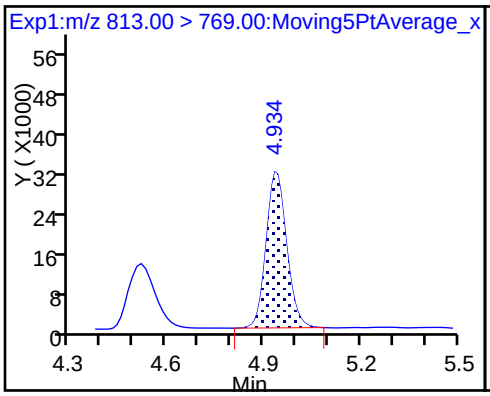
42 Perfluorotetradecanoic acid



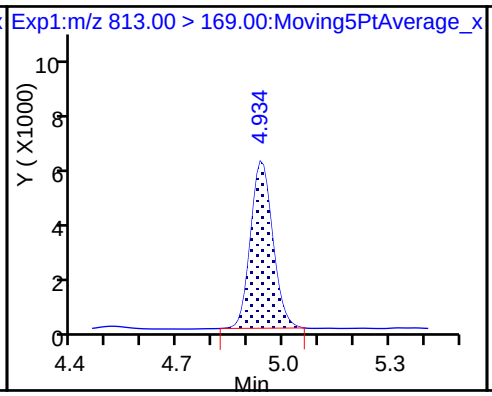
D 44 13C2-PFHxDA



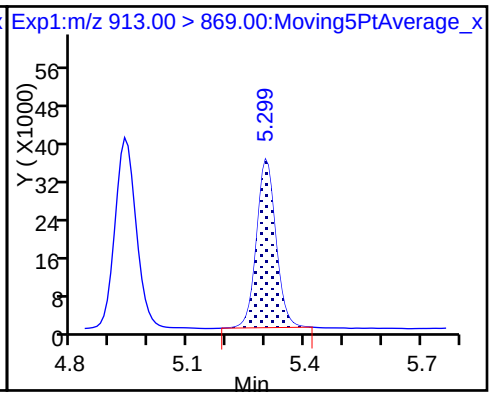
45 Perfluorohexadecanoic acid



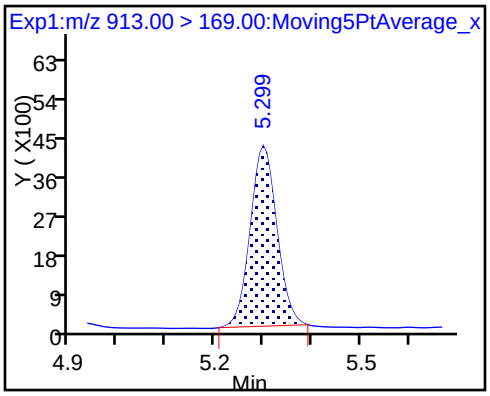
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_004.d
Lims ID: IC L3 Full
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Dec-2017 16:08:23 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L3-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub19

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 09:54:07 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK021

First Level Reviewer: phomsophat Date: 14-Dec-2017 19:09:21

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.411	1.406	0.005	0.535	8600312	2.43		97.0	27710	
2 Perfluorobutyric acid										
212.90 > 169.00	1.411	1.408	0.003	1.000	793581	0.2558		102	164	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.658	1.656	0.002	1.000	560152	0.2471		98.8	794	
D 3 13C5-PFPeA										
267.90 > 223.00	1.658	1.656	0.002	0.628	5095577	2.44		97.6	67975	
D 47 13C3-PFBS										
301.90 > 83.00	1.694	1.690	0.004	0.642	98877	2.21		94.8	4560	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.694	1.692	0.002	1.000	745803	0.2392		108	3518	
298.90 > 99.00	1.694	1.692	0.002	1.000	306599		2.43(1.25-3.74)	108	2386	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.908	1.902	0.006	1.000	125605	0.2121		90.8	7451	
D 7 13C2 PFHxA										
315.00 > 270.00	1.939	1.938	0.001	0.734	5312653	2.43		97.4	50784	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.939	1.939	0.0	1.000	516953	0.2467		98.7	1147	
313.00 > 119.00	1.939	1.939	0.0	1.000	47564		10.87(5.03-15.10)	98.7	1042	
D 9 13C4-PFHpA										
367.00 > 322.00	2.273	2.272	0.0	0.861	5095268	2.49		99.5	31668	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.273	2.273	-0.001	1.000	523316	0.2477		99.1	1374	
363.00 > 169.00	2.273	2.273	-0.001	1.000	214778		2.44(1.13-3.40)	99.1	1492	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.286	2.285	0.001	1.000	628334	0.2203		96.8	4338	
399.00 > 99.00	2.286	2.285	0.001	1.000	204874		3.07(1.50-4.49)	96.8	1968	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.286	2.286	0.0	0.866	6108701	2.40		101	33540	
D 12 M2-6:2FTS										
429.00 > 81.00	2.625	2.625	0.0	0.995	3008269	2.70		114	89806	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.625	2.625	0.0	1.000	493994	0.2479		105	11946	
D 14 13C4 PFOA										
417.00 > 372.00	2.639	2.637	0.002	1.000	6101236	2.47		98.6	57837	
* 62 13C2-PFOA										
415.00 > 370.00	2.639	2.638	0.001		6060938	2.50			59470	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.639	2.640	-0.001	1.000	664330	0.2560		102	1541	
413.00 > 169.00	2.639	2.640	-0.001	1.000	361129		1.84(0.84-2.52)	102	2591	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.647	2.644	0.003	1.000	587067	0.2527		106	13666	
449.00 > 99.00	2.647	2.644	0.003	1.000	155665		3.77(1.94-5.82)	106	4484	
D 18 13C4 PFOS										
503.00 > 80.00	3.012	3.014	-0.002	1.141	3765173	2.34		98.0	29534	
D 19 13C5 PFNA										
468.00 > 423.00	3.012	3.015	-0.003	1.141	3945653	2.41		96.3	35629	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.012	3.015	-0.003	1.000	397062	0.2371		102	1379	
499.00 > 99.00	3.012	3.015	-0.003	1.000	87250		4.55(2.31-6.93)	102	926	
20 Perfluorononanoic acid										
463.00 > 419.00	3.020	3.017	0.003	1.003	405678	0.2580		103	2868	
463.00 > 169.00	3.012	3.017	-0.005	1.000	97192		4.17(1.90-5.69)	103	2105	
D 21 13C8 FOSA										
506.00 > 78.00	3.358	3.354	0.004	1.272	5722686	2.48		99.3	26210	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.358	3.356	0.002	1.000	543794	0.2511		100	10266	
D 26 M2-8:2FTS										
529.00 > 81.00	3.365	3.368	-0.003	1.275	842989	2.28		95.4	18879	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.365	3.369	-0.004	1.000	104155	0.2431		102	5140	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.380	3.379	0.001	1.000	315236	0.2565		103	4919	
513.00 > 169.00	3.380	3.379	0.001	1.000	55811		5.65(2.36-7.09)	103	892	
D 23 13C2 PFDA										
515.00 > 470.00	3.380	3.379	0.001	1.281	3179040	2.38		95.3	25523	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.532	3.535	-0.003	1.338	1520693	2.39		95.6	23620	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.540	3.538	0.002	1.002	155423	0.2447		97.9	1295	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.690	3.692	-0.002	1.000	224818	0.2403		99.7	7764	
599.00 > 99.00	3.690	3.692	-0.002	1.000	77324		2.91(1.39-4.16)	99.7	3656	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.707	3.704	0.003	1.405	1545787	2.44		97.5	6221	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.707	3.709	-0.002	1.405	2510724	2.47		98.9	34774	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.707	3.710	-0.003	1.000	151917	0.2546		102	3514	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.707	3.711	-0.004	1.000	213173	0.2339		93.6	2523	
563.00 > 169.00	3.707	3.711	-0.004	1.000	50981		4.18(0.00-0.00)	93.6	3421	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.846	3.850	-0.004	1.457	1604706	2.38		95.0	3791	
35 MeFOSA										
512.00 > 169.00	3.856	3.856	0.0	1.002	162702	0.2529		101	2976	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.006	4.008	-0.002	1.000	252044	0.2427		97.1	1022	
613.00 > 169.00	4.006	4.008	-0.002	1.000	66616		3.78(2.13-6.40)	97.1	4110	
D 36 13C2 PFDoA										
615.00 > 570.00	4.006	4.008	-0.002	1.518	2666735	2.46		98.3	38402	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.038	4.039	-0.001	1.530	1496552	2.39		95.8	3479	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.045	4.047	-0.002	1.002	158928	0.2571		103	2476	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.280	4.275	0.005	1.000	296005	0.2514		101	3889	
663.00 > 169.00	4.271	4.275	-0.004	0.998	95551		3.10(1.25-3.76)	101	7067	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.514	4.519	-0.005	1.000	72426	0.2551		102	3089	
713.00 > 219.00	4.514	4.519	-0.005	1.000	50650		1.43(0.71-2.13)	102	2163	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.514	4.519	-0.005	1.710	2840465	2.41		96.5	24296	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.940	4.935	0.005	1.000	545644	0.2731		109	413	
813.00 > 169.00	4.940	4.935	0.005	1.000	95580		5.71(2.86-8.58)	109	3158	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.940	4.935	0.005	1.872	5239488	2.43		97.1	16629	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.303	5.299	0.004	1.000	629381	0.2662		106	213	
913.00 > 169.00	5.303	5.299	0.004	1.000	78124		8.06(0.00-0.00)	106	978	

Reagents:

LCPFC_LL3_00002 Amount Added: 1.00 Units: mL

Report Date: 15-Dec-2017 09:54:08 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_004.d

Injection Date: 14-Dec-2017 16:08:23 Instrument ID: A8_N

Lims ID: IC L3 Full

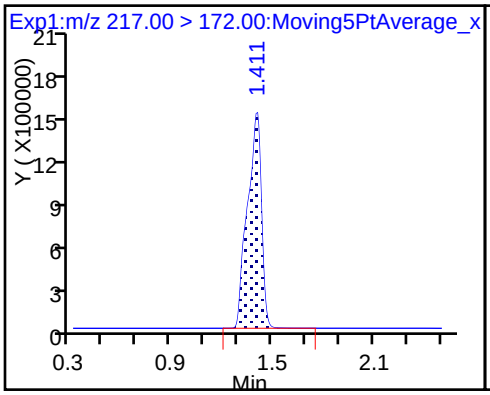
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4

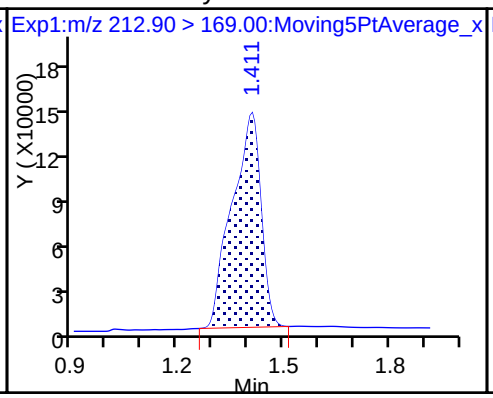
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

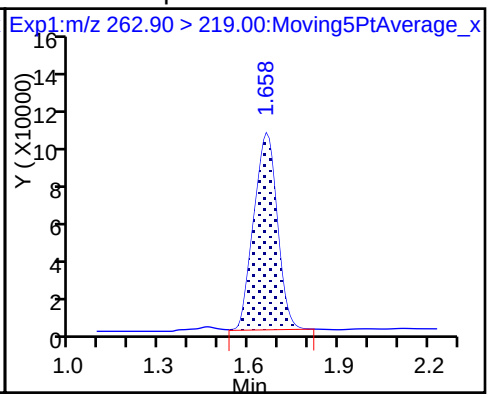
D 1 13C4 PFBA



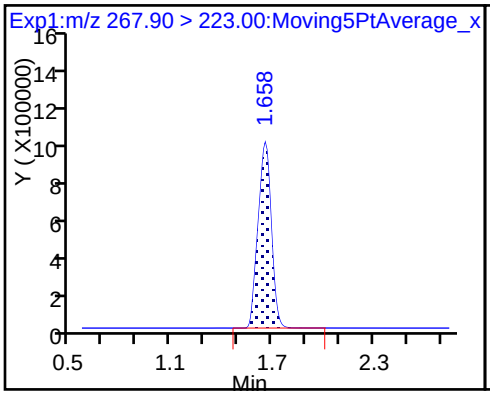
2 Perfluorobutyric acid



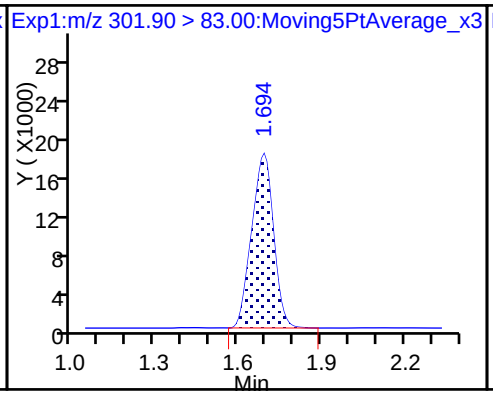
4 Perfluoropentanoic acid



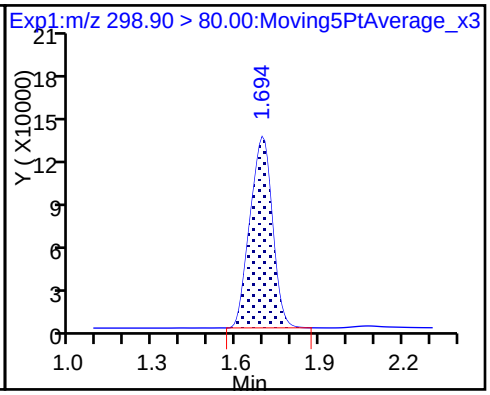
D 3 13C5-PFPeA



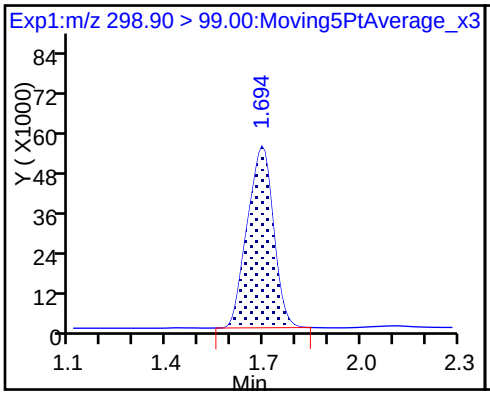
D 47 13C3-PFBS



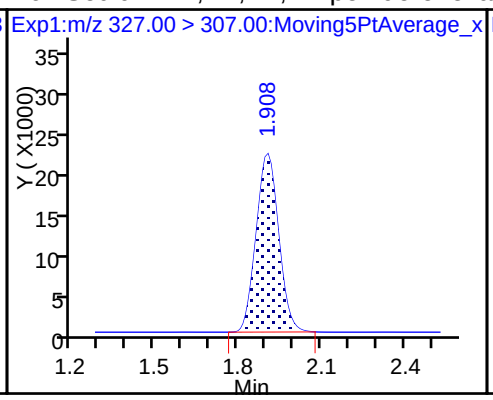
5 Perfluorobutanesulfonic acid



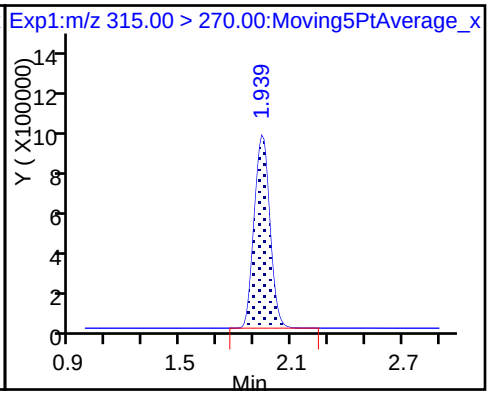
5 Perfluorobutanesulfonic acid



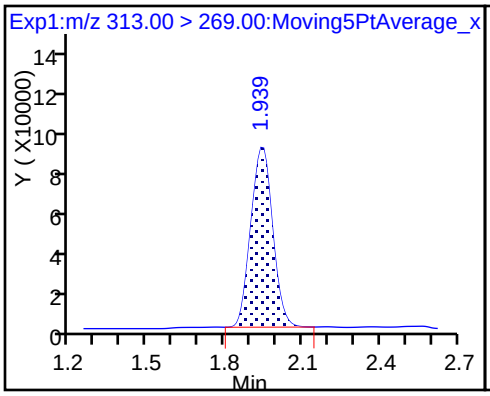
61 Sodium 1H,1H,2H,2H-perfluorohexa



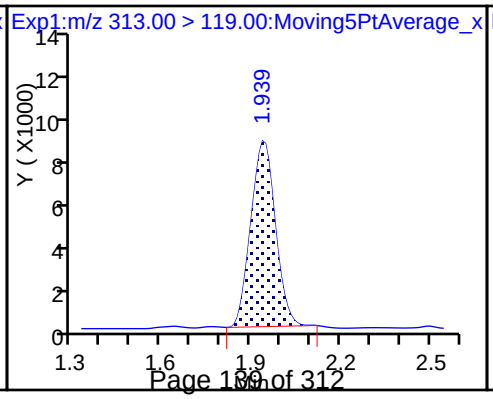
D 7 13C2 PFHxA



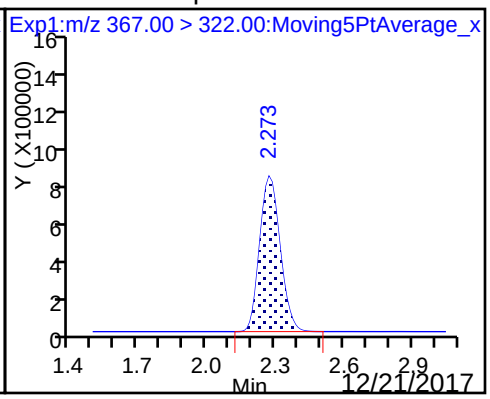
6 Perfluorohexanoic acid



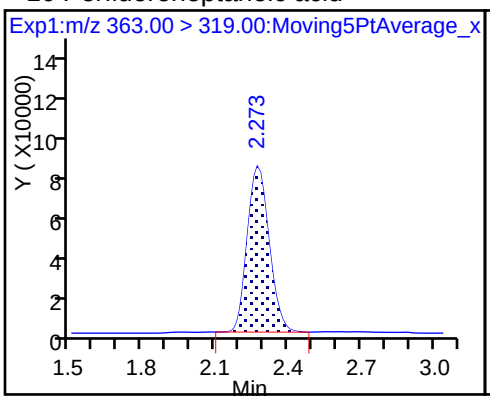
6 Perfluorohexanoic acid



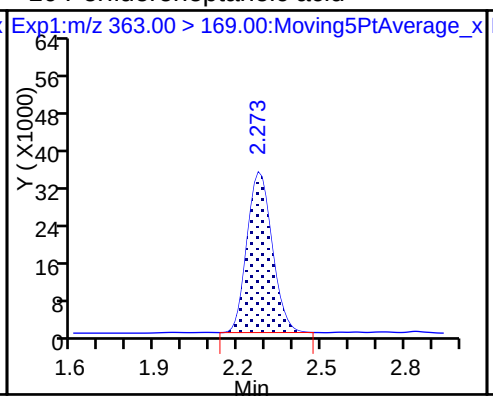
D 9 13C4-PFHpA



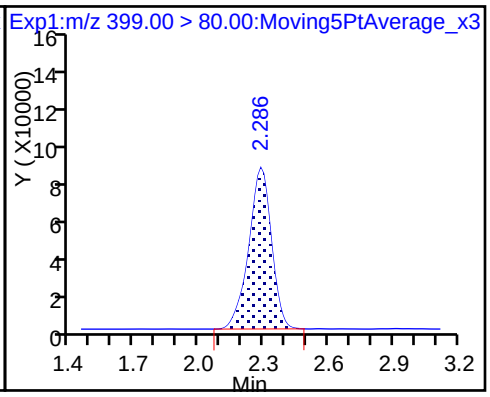
10 Perfluoroheptanoic acid



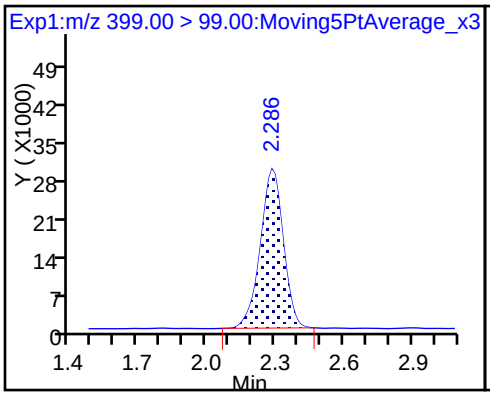
10 Perfluoroheptanoic acid



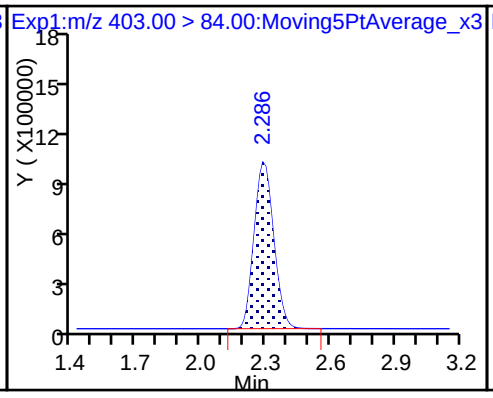
8 Perfluorohexanesulfonic acid



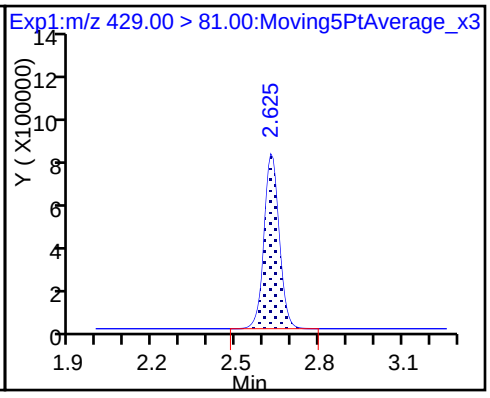
8 Perfluorohexanesulfonic acid



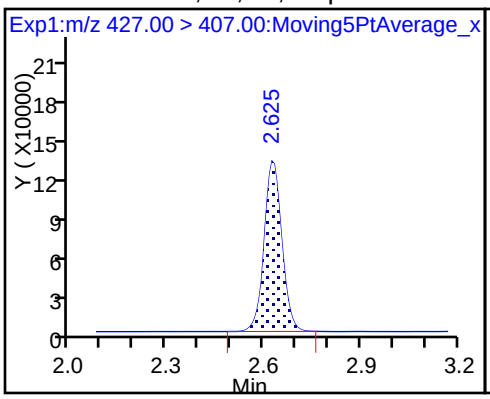
D 11 18O2 PFHxS



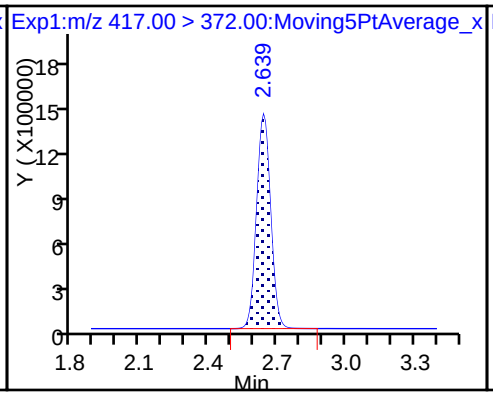
D 12 M2-6:2FTS



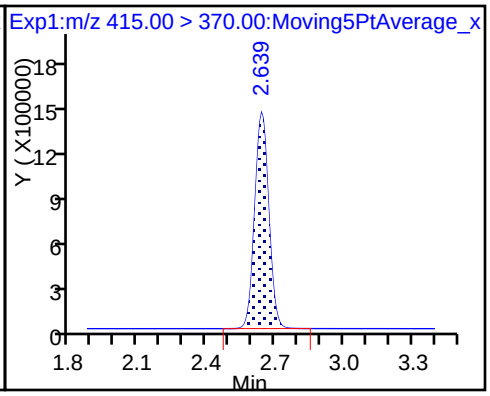
13 Sodium 1H,1H,2H,2H-perfluorooctane



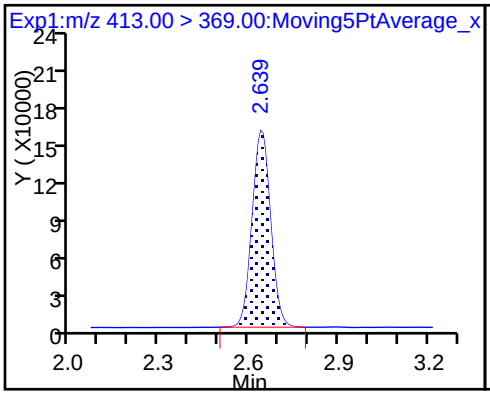
D 14 13C4 PFOA



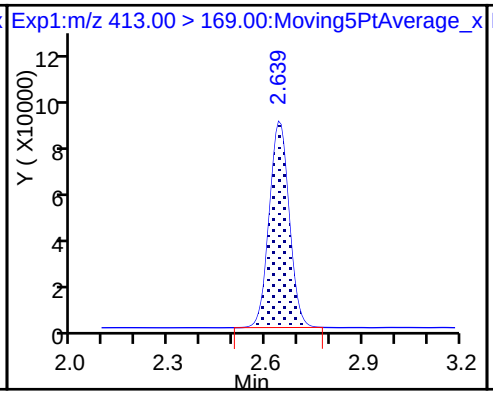
* 62 13C2-PFOA



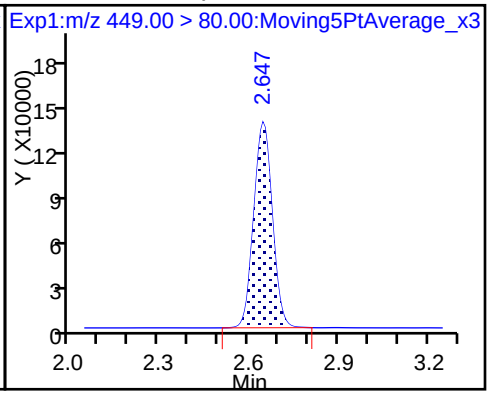
15 Perfluorooctanoic acid



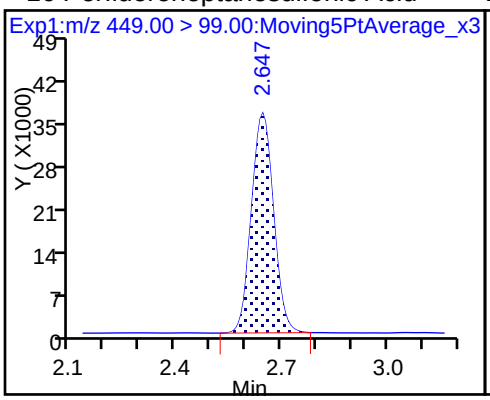
15 Perfluorooctanoic acid



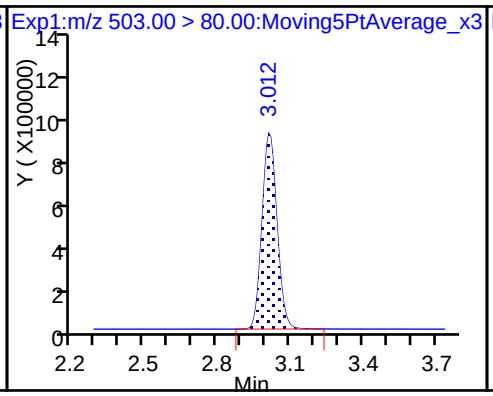
16 Perfluoroheptanesulfonic Acid



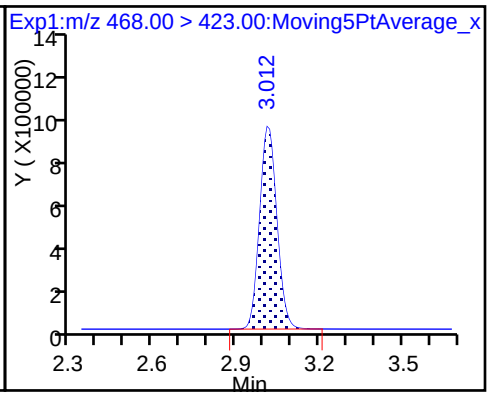
16 Perfluoroheptanesulfonic Acid



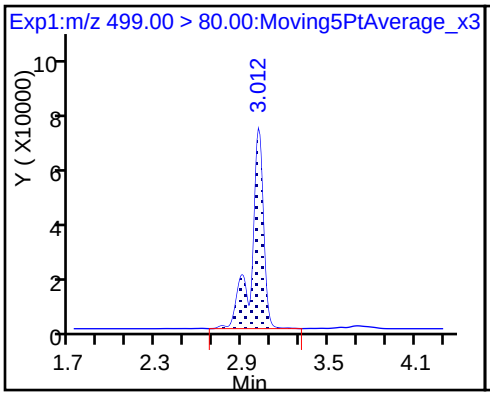
D 18 13C4 PFOS



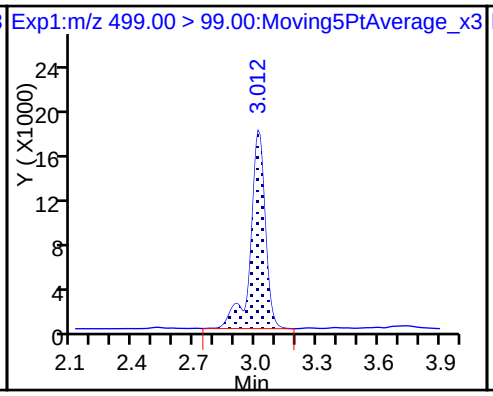
D 19 13C5 PFNA



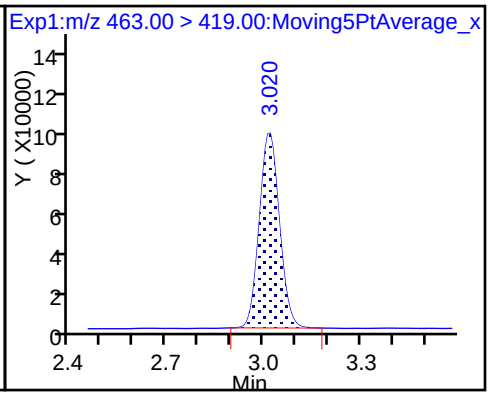
17 Perfluorooctane sulfonic acid



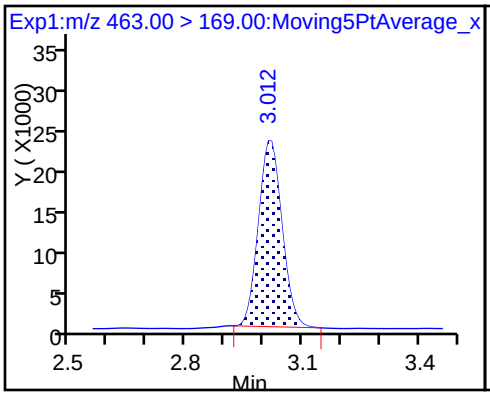
17 Perfluorooctane sulfonic acid



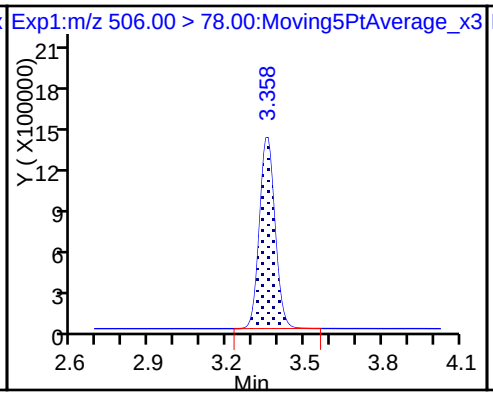
20 Perfluorononanoic acid



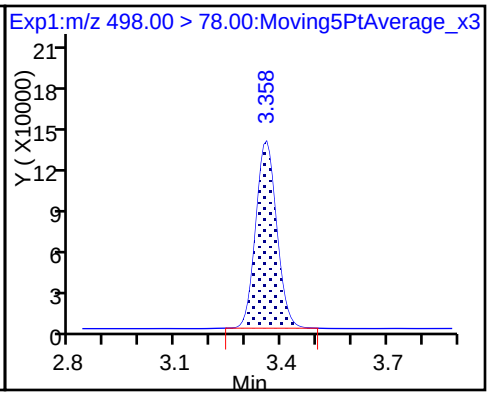
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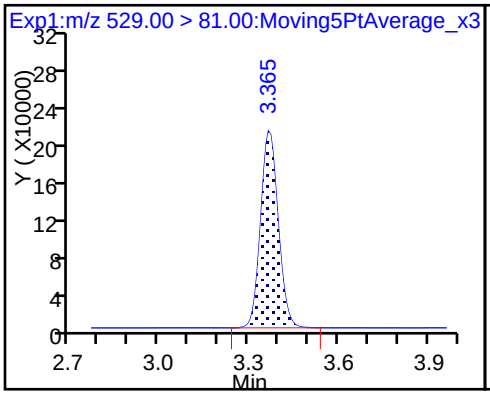
D 21 13C8 FOSA



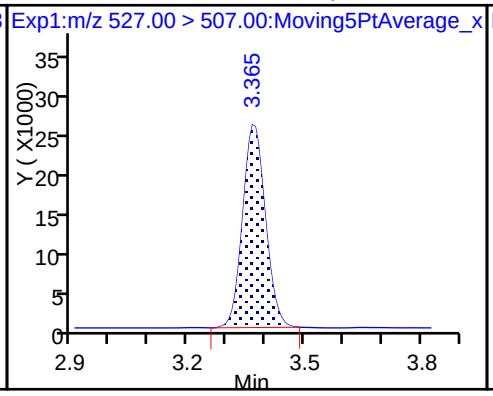
22 Perfluorooctane Sulfonamide



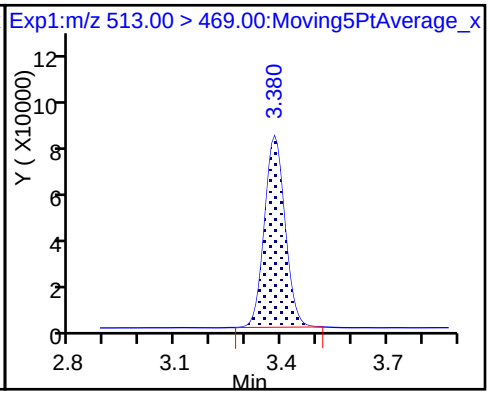
D 26 M2-8:2FTS



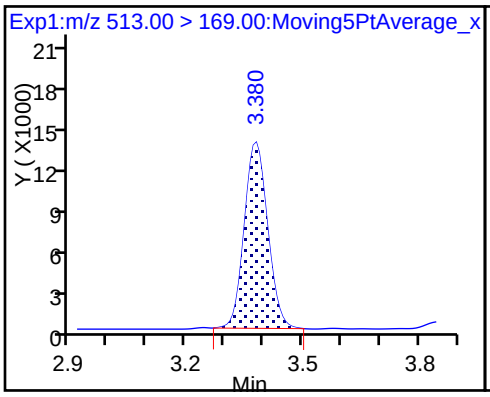
25 Sodium 1H,1H,2H,2H-perfluorodecan



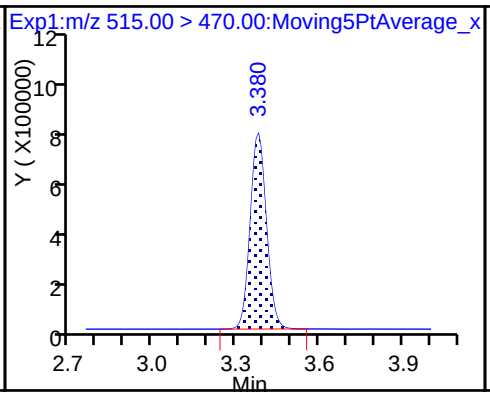
24 Perfluorodecanoic acid



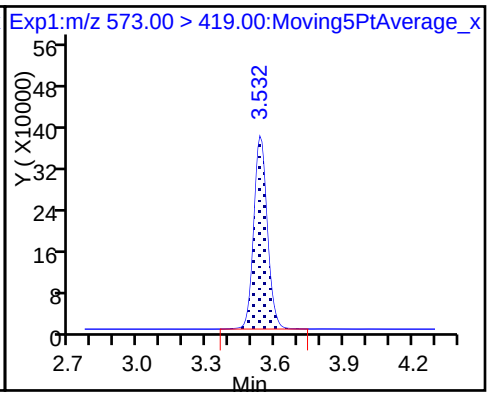
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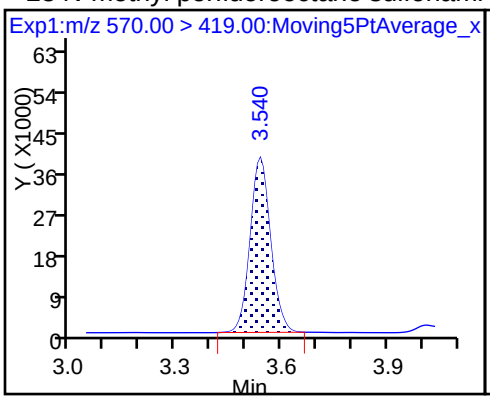
D 23 13C2 PFDA



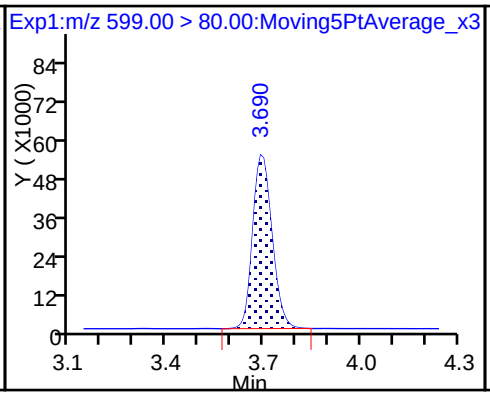
D 27 d3-NMeFOSAA



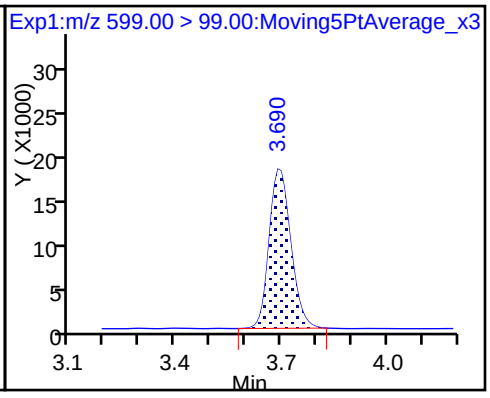
28 N-methyl perfluorooctane sulfonami



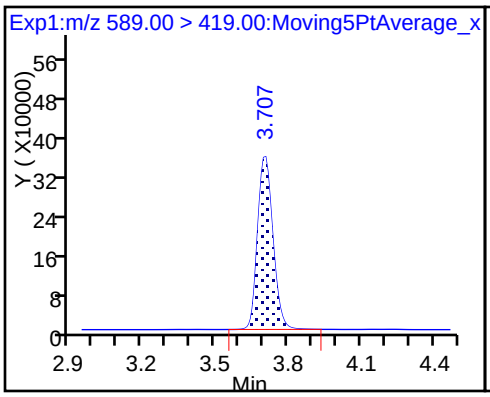
29 Perfluorodecane Sulfonic acid



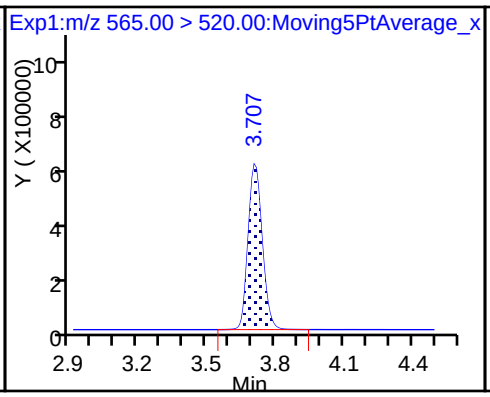
29 Perfluorodecane Sulfonic acid



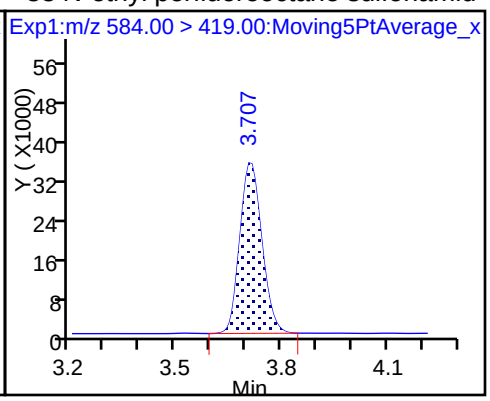
D 32 d5-NEtFOSAA



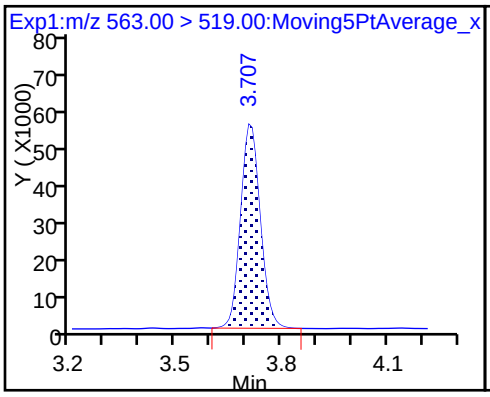
D 30 13C2 PFUnA



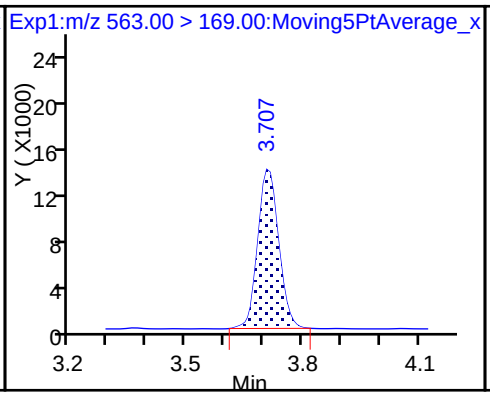
33 N-ethyl perfluorooctane sulfonamid



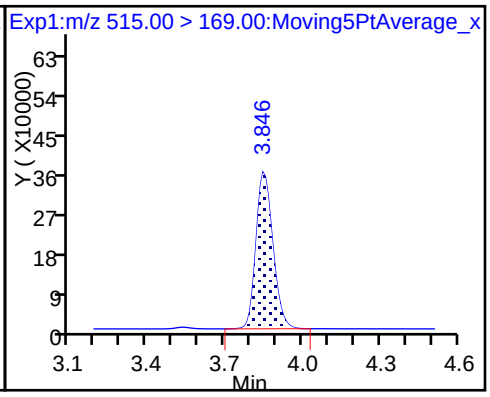
31 Perfluoroundecanoic acid



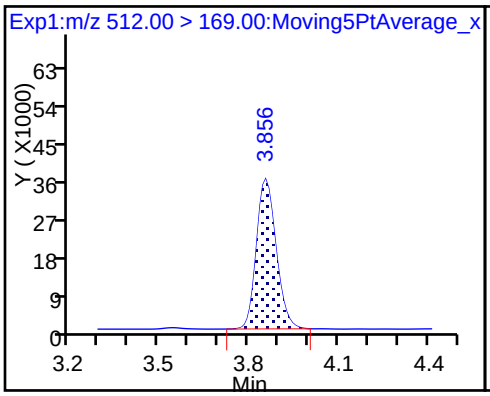
31 Perfluoroundecanoic acid



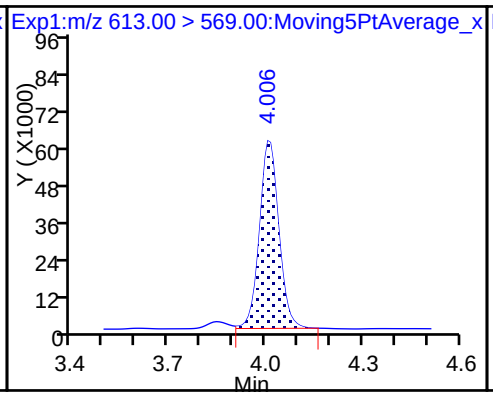
D 34 d-N-MeFOSA-M



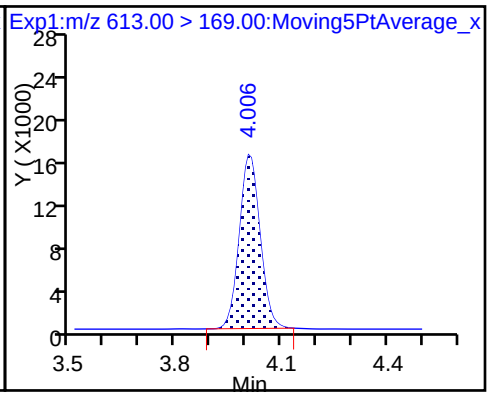
35 MeFOSA



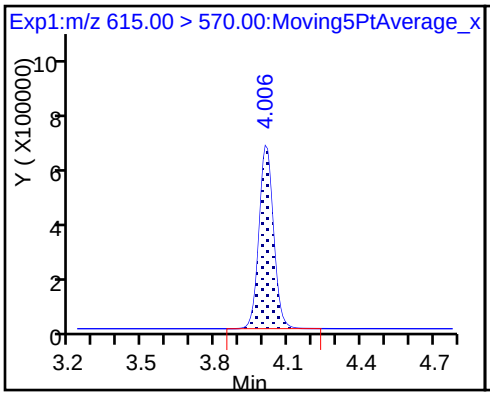
37 Perfluorododecanoic acid



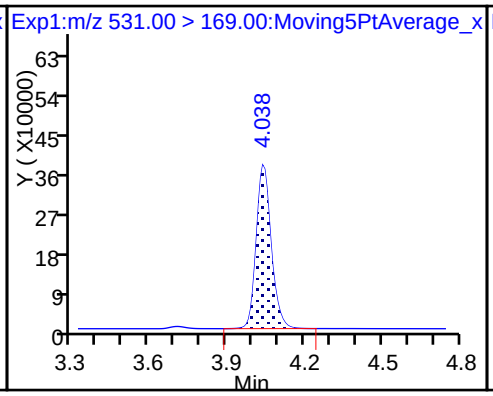
37 Perfluorododecanoic acid



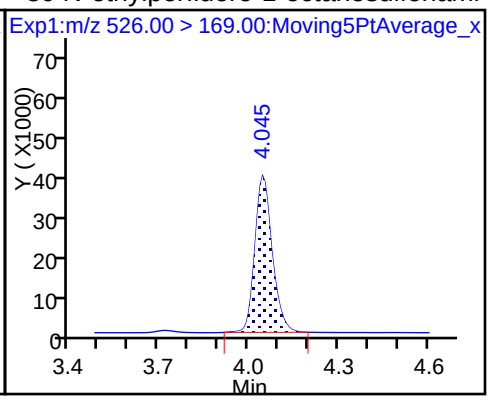
D 36 13C2 PFDoA



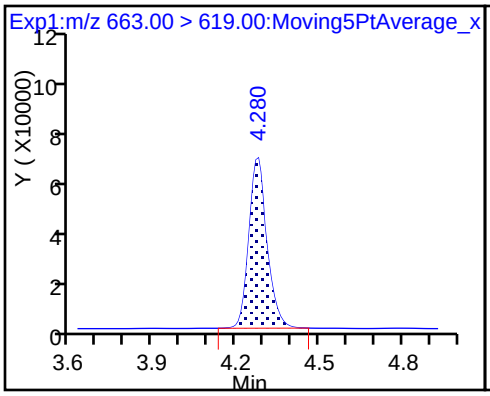
D 38 d-N-EtFOSA-M



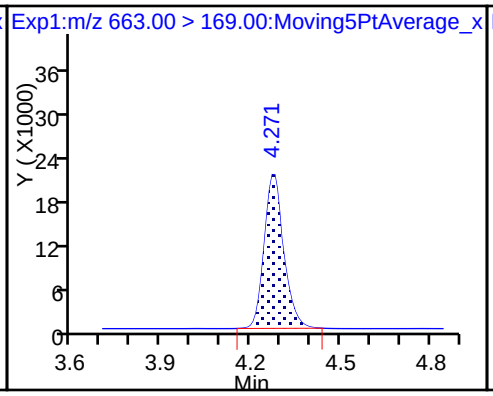
39 N-ethylperfluoro-1-octanesulfonami



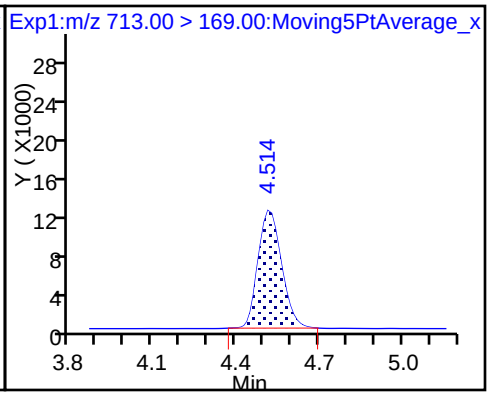
41 Perfluorotridecanoic acid



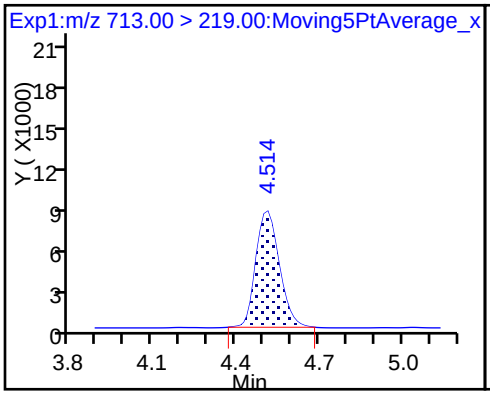
41 Perfluorotridecanoic acid



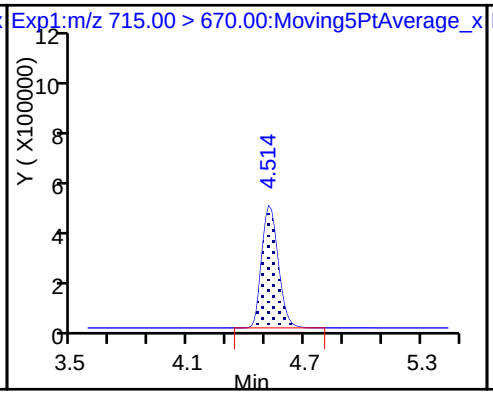
42 Perfluorotetradecanoic acid



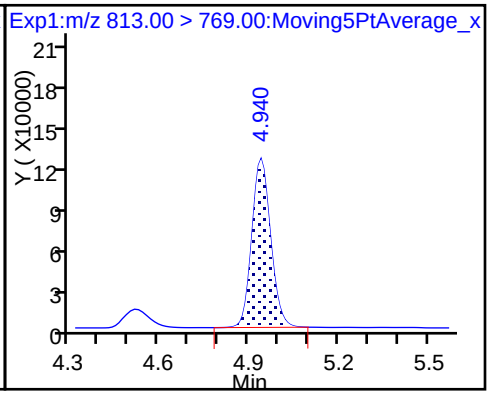
42 Perfluorotetradecanoic acid



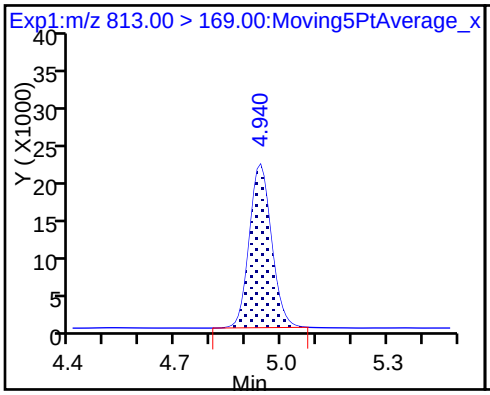
D 43 13C2-PFTeDA



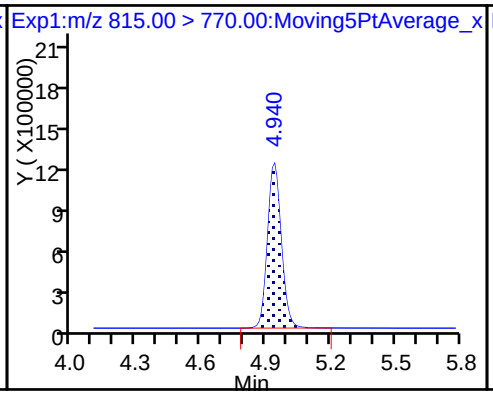
45 Perfluorohexadecanoic acid



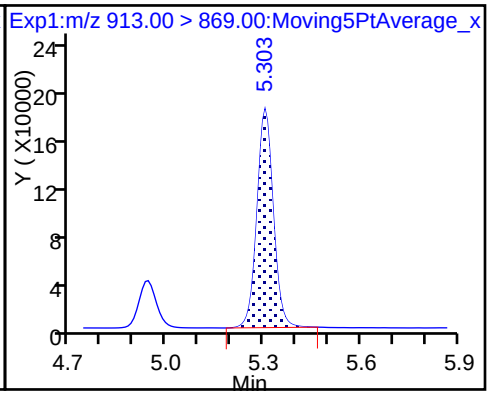
45 Perfluorohexadecanoic acid



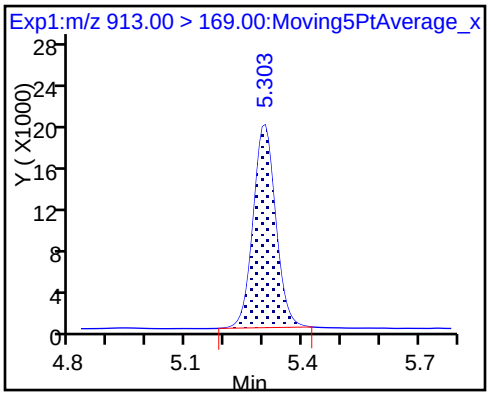
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_005.d
Lims ID: IC L4 Full
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Dec-2017 16:16:18 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L4-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub19

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 09:54:11 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK021

First Level Reviewer: hannigana Date: 15-Dec-2017 08:10:57

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.412	1.406	0.006	0.534	8346841	2.46		98.5	27012	
2 Perfluorobutyric acid										
212.90 > 169.00	1.412	1.408	0.004	1.000	3090470	1.03		103	712	
D 3 13C5-PFPeA										
267.90 > 223.00	1.660	1.656	0.004	0.628	4839061	2.42		97.0	73775	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.660	1.656	0.004	1.000	2142448	1.00		99.5	3199	
D 47 13C3-PFBS										
301.90 > 83.00	1.695	1.690	0.005	0.642	98125	2.29		98.5	3498	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.695	1.692	0.003	1.000	2923644	0.9447		107	14217	
298.90 > 99.00	1.695	1.692	0.003	1.000	1173590		2.49(1.25-3.74)	107	8653	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.909	1.902	0.007	1.000	498303	0.9114		97.6	17350	
D 7 13C2 PFHxA										
315.00 > 270.00	1.940	1.938	0.002	0.734	5234897	2.51		100	44391	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.940	1.939	0.001	1.000	2052791	0.99		99.4	4781	
313.00 > 119.00	1.940	1.939	0.001	1.000	196068		10.47(5.03-15.10)	99.4	4771	
D 9 13C4-PFHpA										
367.00 > 322.00	2.275	2.272	0.003	0.861	4802767	2.46		98.2	33335	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.275	2.273	0.002	1.000	2040277	1.02		102	4223	
363.00 > 169.00	2.275	2.273	0.002	1.000	793590		2.57(1.13-3.40)	102	6085	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.288	2.285	0.003	1.000	2240009	0.8370		92.0	10459	
399.00 > 99.00	2.288	2.285	0.003	1.000	754828		2.97(1.50-4.49)	92.0	6272	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.288	2.286	0.002	0.866	5731587	2.35		99.5	31131	
D 12 M2-6:2FTS										
429.00 > 81.00	2.628	2.625	0.003	0.995	2777334	2.61		110	82107	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.628	2.625	0.003	1.000	1816008	0.9871		104	48529	
D 14 13C4 PFOA										
417.00 > 372.00	2.642	2.637	0.005	1.000	6042499	2.56		102	45148	
* 62 13C2-PFOA										
415.00 > 370.00	2.642	2.638	0.004		5789995	2.50			52179	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.642	2.640	0.002	1.000	2565408	1.00		99.8	5428	
413.00 > 169.00	2.642	2.640	0.002	1.000	1321403		1.94(0.84-2.52)	99.8	7822	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.649	2.644	0.005	1.000	2214859	0.9817		103	24234	
449.00 > 99.00	2.649	2.644	0.005	1.000	590477		3.75(1.94-5.82)	103	13494	
D 18 13C4 PFOS										
503.00 > 80.00	3.015	3.014	0.001	1.141	3656571	2.38		99.6	40667	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.023	3.015	0.008	1.003	1511404	0.9294		100	3853	M
499.00 > 99.00	3.015	3.015	0.0	1.000	338541		4.46(2.31-6.93)	100	4447	
D 19 13C5 PFNA										
468.00 > 423.00	3.023	3.015	0.008	1.144	3817610	2.44		97.6	38476	
20 Perfluorononanoic acid										
463.00 > 419.00	3.023	3.017	0.006	1.000	1596131	1.05		105	10352	
463.00 > 169.00	3.023	3.017	0.006	1.000	379088		4.21(1.90-5.69)	105	10992	
D 21 13C8 FOSA										
506.00 > 78.00	3.362	3.354	0.008	1.273	5502448	2.50		100	28587	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.362	3.356	0.006	1.000	2163477	1.04		104	18758	
D 26 M2-8:2FTS										
529.00 > 81.00	3.377	3.368	0.009	1.278	826584	2.34		97.9	15512	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.377	3.369	0.008	1.000	409945	0.9758		102	14439	
D 23 13C2 PFDA										
515.00 > 470.00	3.385	3.379	0.006	1.281	3211449	2.52		101	28531	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.385	3.379	0.006	1.000	1282349	1.03		103	13309	
513.00 > 169.00	3.385	3.379	0.006	1.000	217070		5.91(2.36-7.09)	103	1807	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.544	3.535	0.009	1.341	1456007	2.39		95.8	18740	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.544	3.538	0.006	1.000	643480	1.06		106	4218	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.695	3.692	0.003	1.000	885300	0.9743		101	26304	
599.00 > 99.00	3.695	3.692	0.003	1.000	295071		3.00(1.39-4.16)	101	10062	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.713	3.704	0.009	1.405	1539604	2.54		102	7370	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.713	3.709	0.004	1.405	2431848	2.51		100	28594	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.713	3.710	0.003	1.000	598278	1.01		101	15316	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.721	3.711	0.010	1.002	821719	0.9309		93.1	11830	
563.00 > 169.00	3.721	3.711	0.010	1.002	199314		4.12(0.00-0.00)	93.1	13258	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.852	3.850	0.002	1.458	1508614	2.34		93.5	4021	
35 MeFOSA										
512.00 > 169.00	3.863	3.856	0.007	1.003	620438	1.03		103	3438	
D 36 13C2 PFDoA										
615.00 > 570.00	4.011	4.008	0.003	1.518	2539810	2.45		98.0	29486	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.011	4.008	0.003	1.000	1024451	1.04		104	4270	
613.00 > 169.00	4.019	4.008	0.011	1.002	240458		4.26(2.13-6.40)	104	11701	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.043	4.039	0.004	1.530	1439049	2.41		96.4	3105	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.051	4.047	0.004	1.002	631383	1.06		106	3733	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.278	4.275	0.003	1.000	1172821	1.05		105	12794	
663.00 > 169.00	4.278	4.275	0.003	1.000	380106		3.09(1.25-3.76)	105	13825	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.526	4.519	0.007	1.713	2828239	2.52		101	24012	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.526	4.519	0.007	1.000	289450	1.02		102	12315	
713.00 > 219.00	4.513	4.519	-0.006	0.997	203285		1.42(0.71-2.13)	102	8721	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.939	4.935	0.004	1.870	5281068	2.56		102	12597	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.939	4.935	0.004	1.000	1949984	1.03		103	1378	
813.00 > 169.00	4.939	4.935	0.004	1.000	347075		5.62(2.86-8.58)	103	6120	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.303	5.299	0.004	1.000	2561749	1.08		108	758	
913.00 > 169.00	5.303	5.299	0.004	1.000	306609		8.36(0.00-0.00)	108	2171	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00002 Amount Added: 1.00 Units: mL

Report Date: 15-Dec-2017 09:54:12 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_005.d

Injection Date: 14-Dec-2017 16:16:18 Instrument ID: A8_N

Lims ID: IC L4 Full

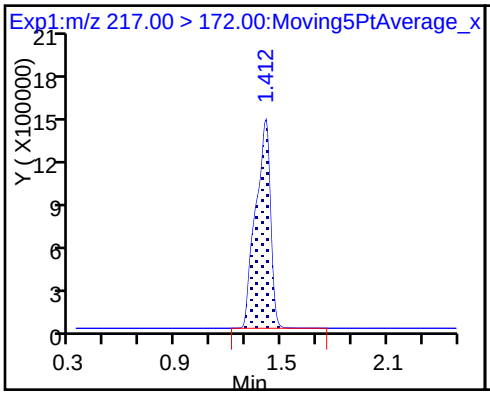
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5

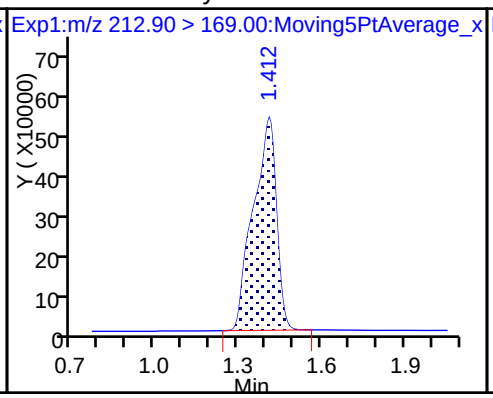
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

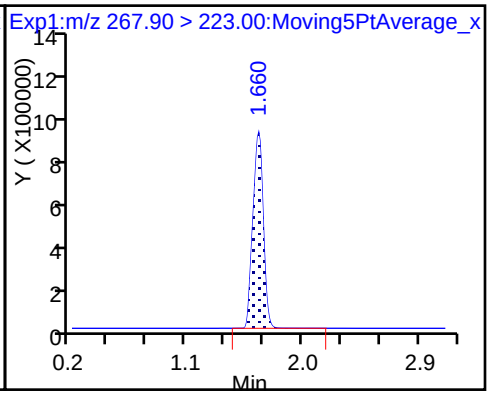
D 1 13C4 PFBA



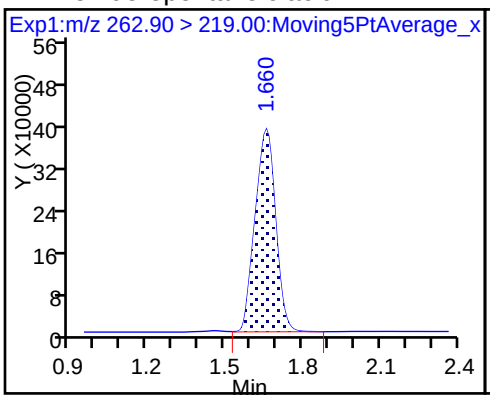
2 Perfluorobutyric acid



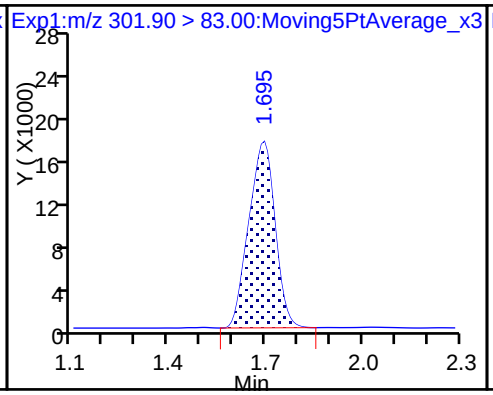
D 3 13C5-PFPeA



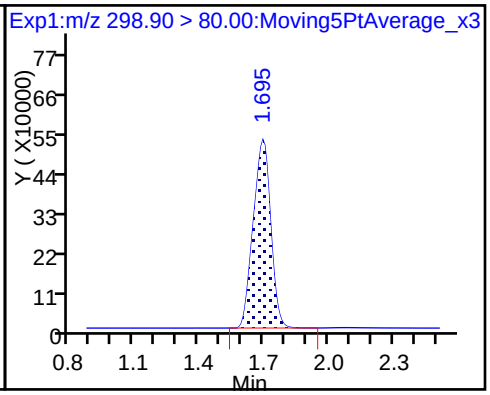
4 Perfluoropentanoic acid



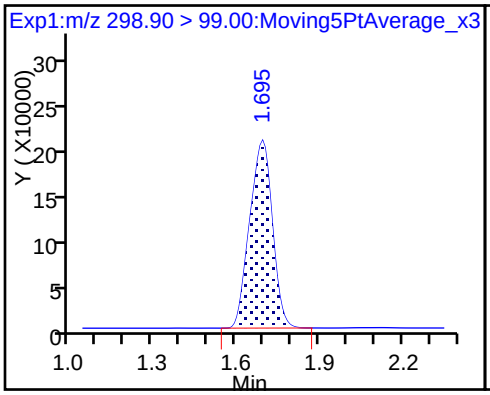
D 47 13C3-PFBS



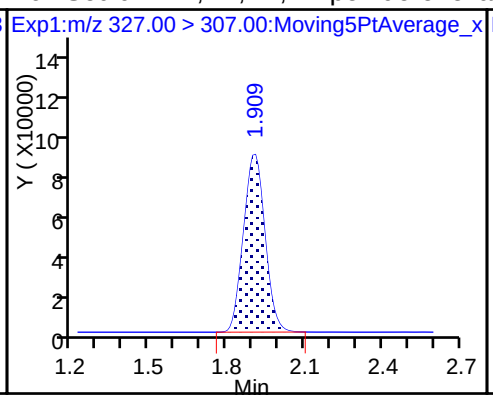
5 Perfluorobutanesulfonic acid



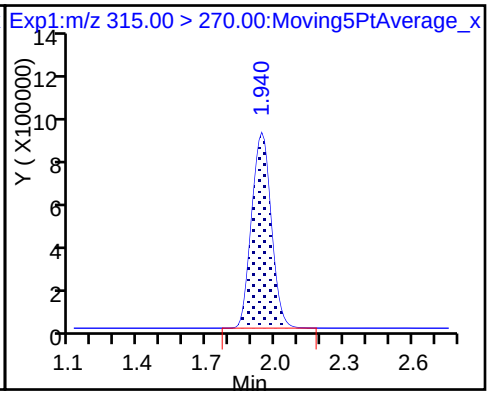
5 Perfluorobutanesulfonic acid



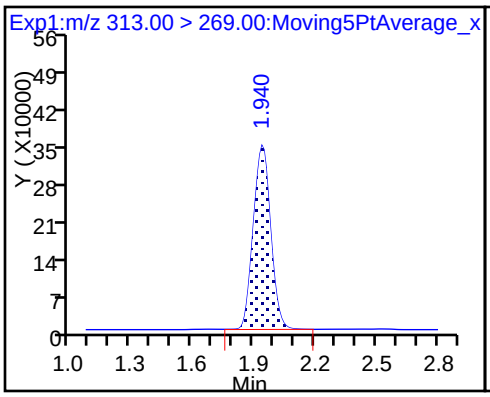
61 Sodium 1H,1H,2H,2H-perfluorohexa



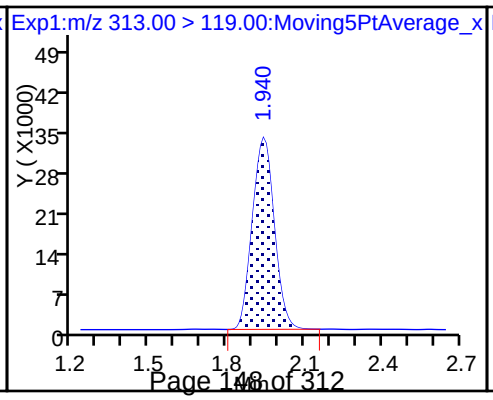
D 7 13C2 PFHxA



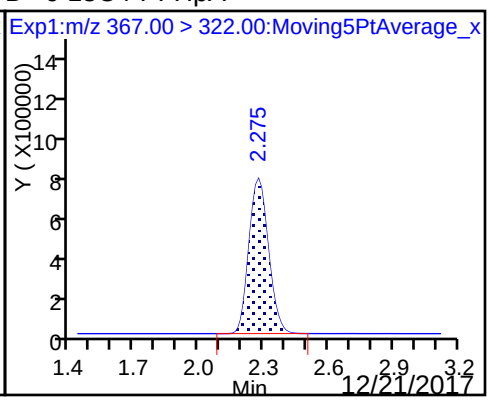
6 Perfluorohexanoic acid



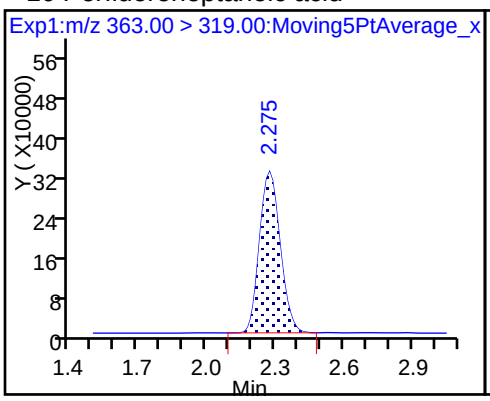
6 Perfluorohexanoic acid



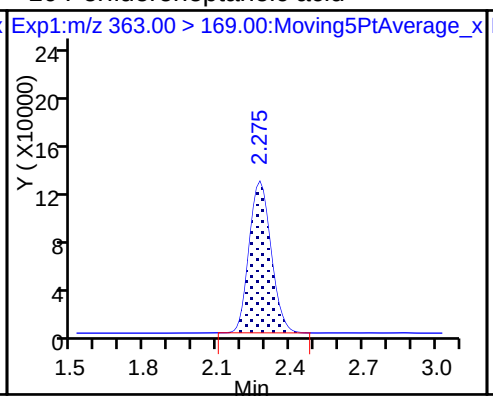
D 9 13C4-PFHpA



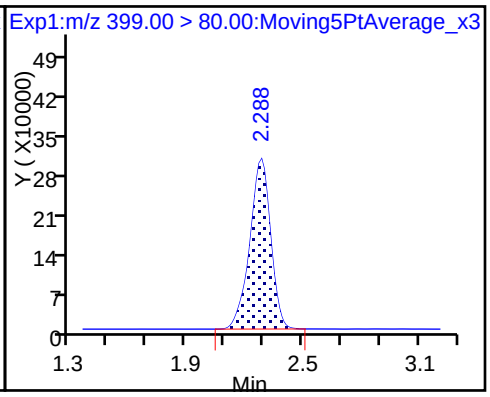
10 Perfluoroheptanoic acid



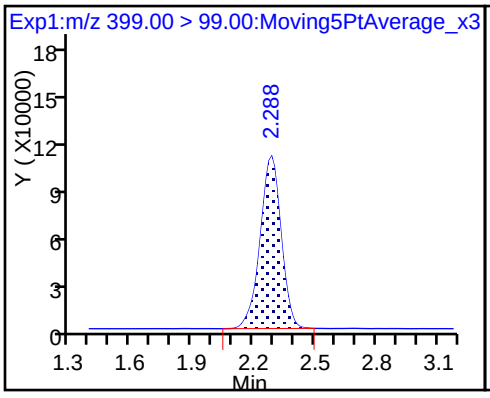
10 Perfluoroheptanoic acid



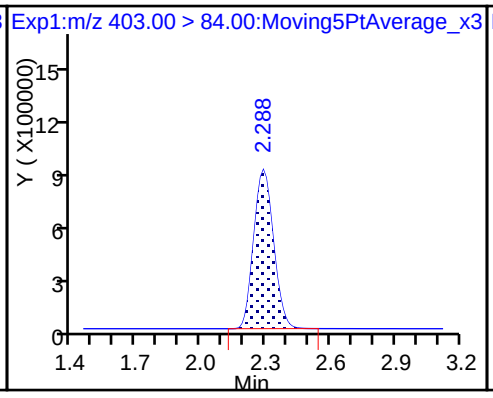
8 Perfluorohexanesulfonic acid



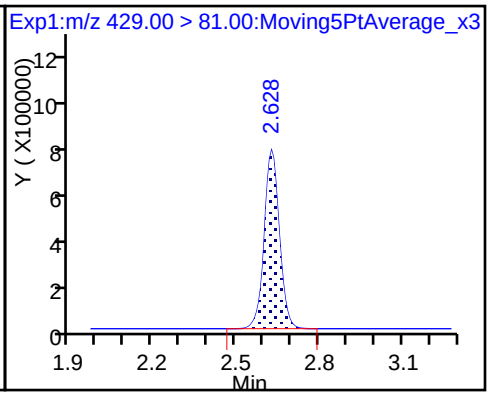
8 Perfluorohexanesulfonic acid



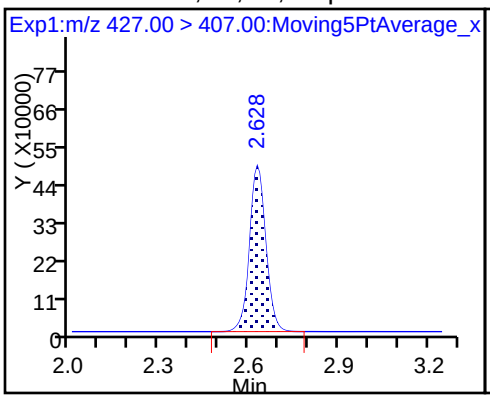
D 11 18O2 PFHxS



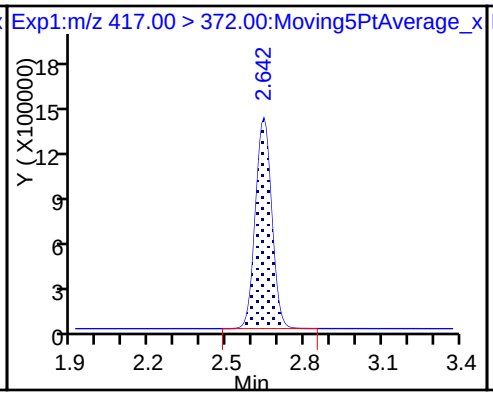
D 12 M2-6:2FTS



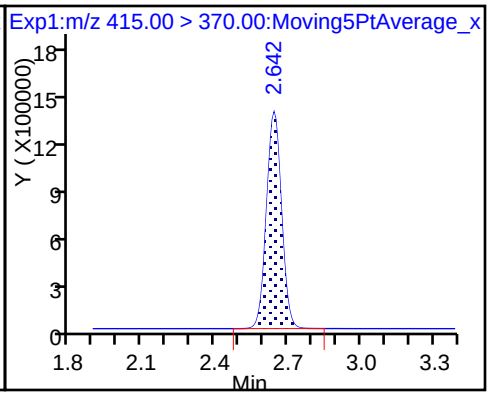
13 Sodium 1H,1H,2H,2H-perfluorooctane



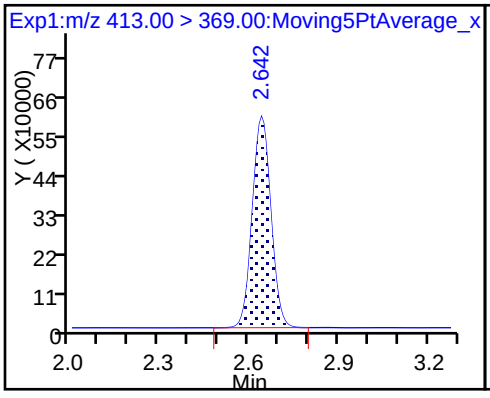
D 14 13C4 PFOA



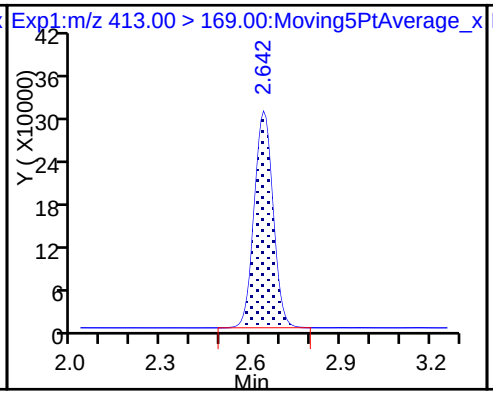
* 62 13C2-PFOA



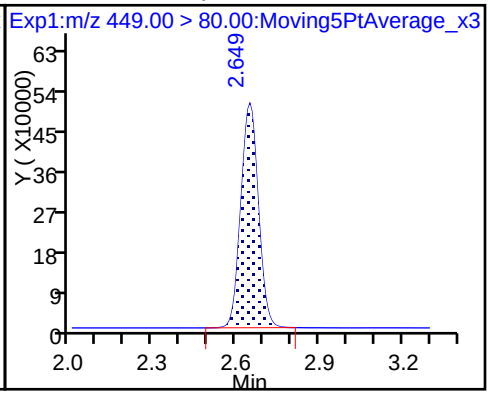
15 Perfluorooctanoic acid



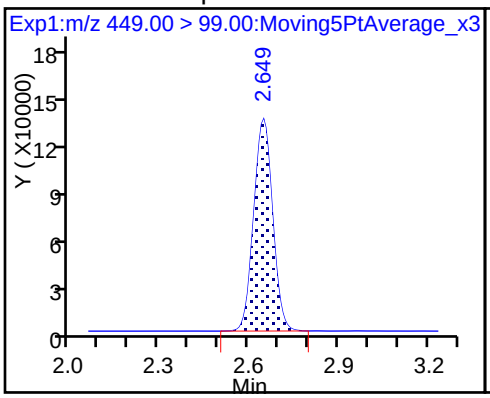
15 Perfluorooctanoic acid



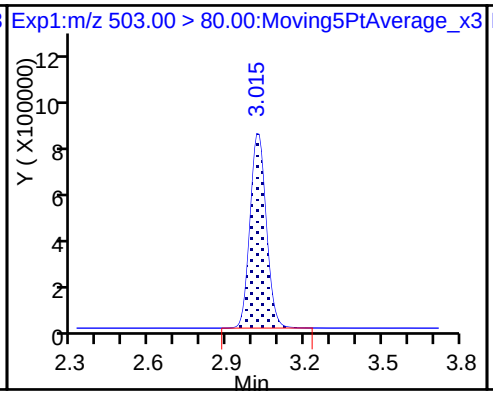
16 Perfluoroheptanesulfonic Acid



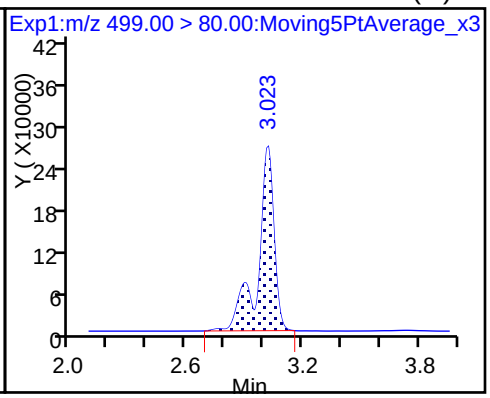
16 Perfluoroheptanesulfonic Acid



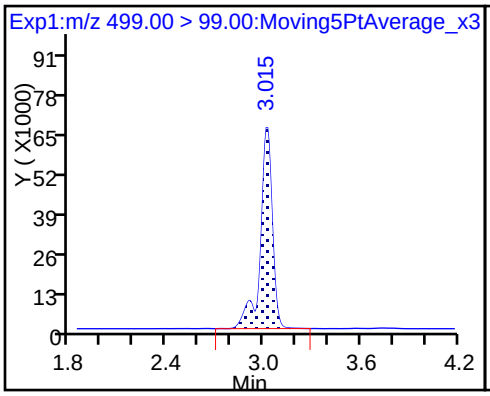
D 18 13C4 PFOS



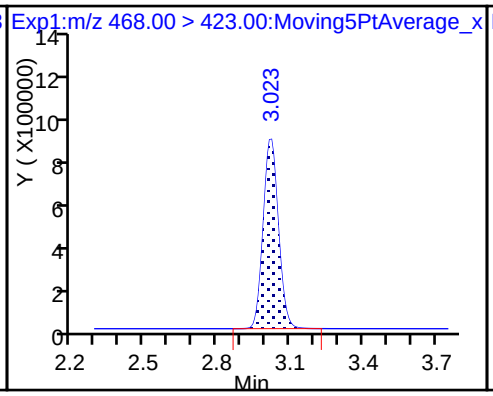
17 Perfluorooctane sulfonic acid (M)



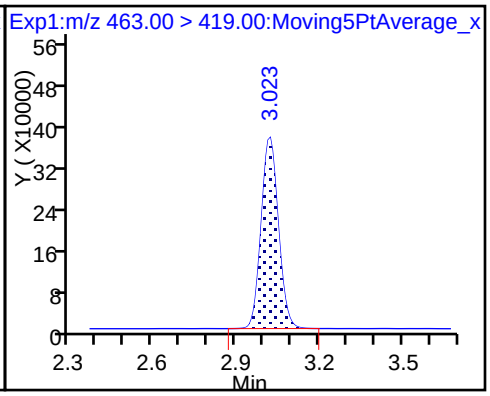
17 Perfluorooctane sulfonic acid



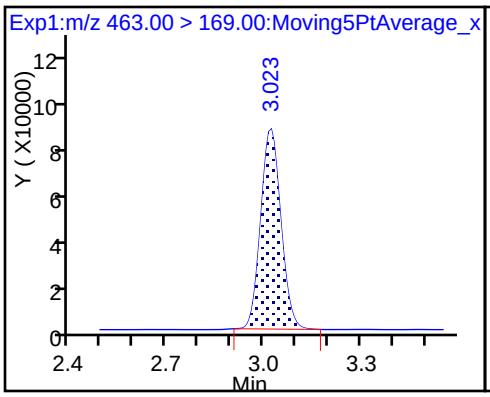
D 19 13C5 PFNA



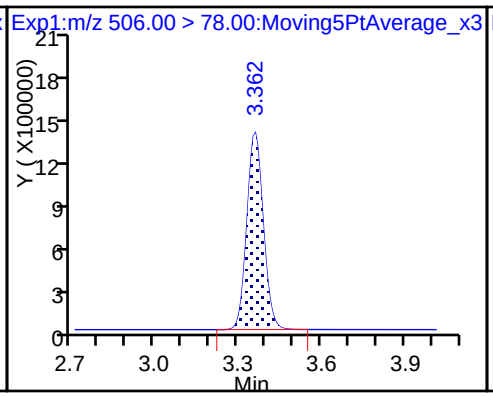
20 Perfluorononanoic acid



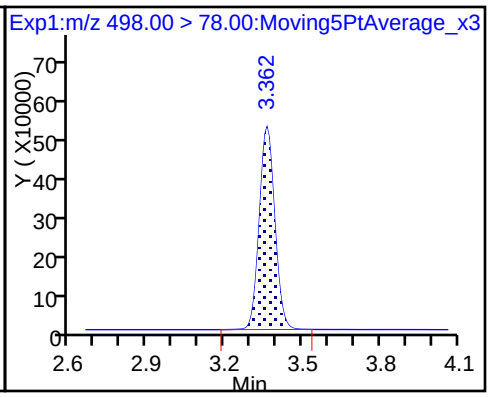
20 Perfluorononanoic acid



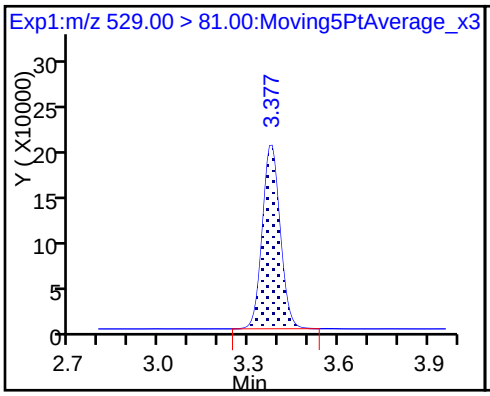
D 21 13C8 FOSA



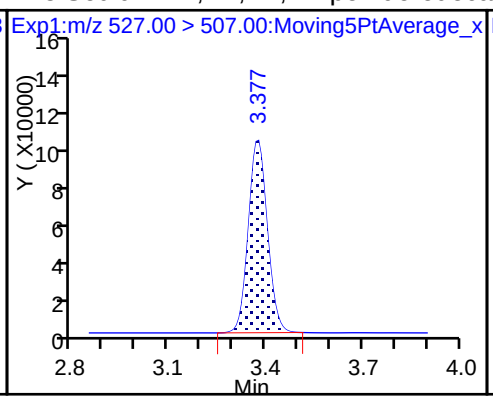
22 Perfluorooctane Sulfonamide



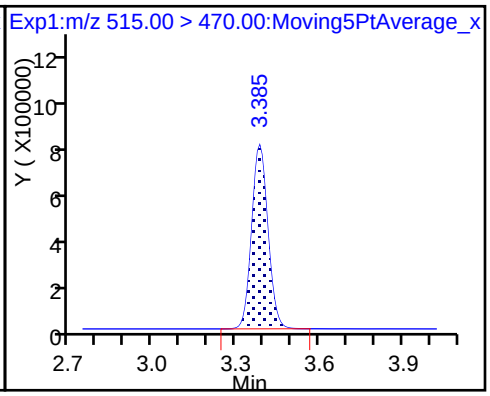
D 26 M2-8:2FTS



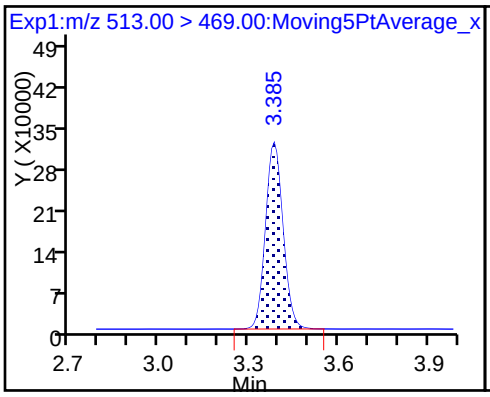
25 Sodium 1H,1H,2H,2H-perfluorodecane



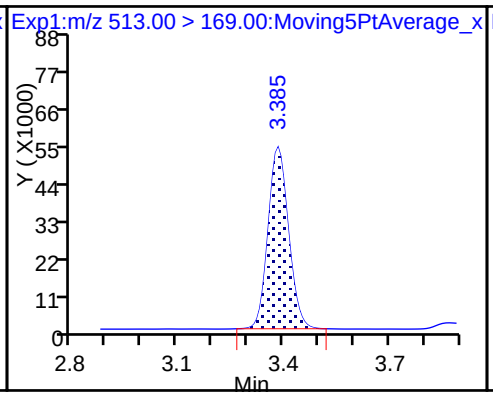
D 23 13C2 PFDA



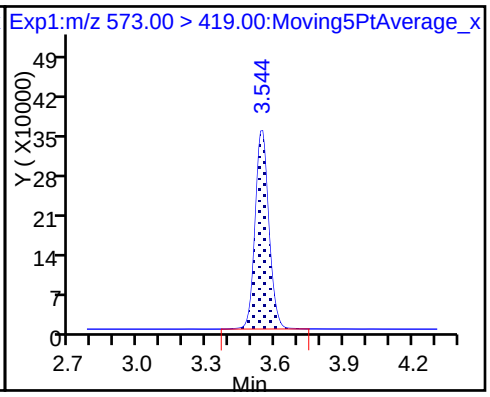
24 Perfluorodecanoic acid



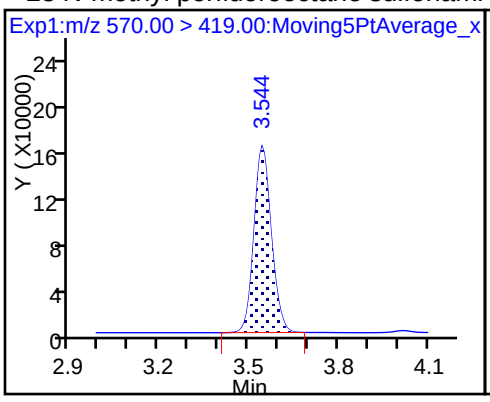
24 Perfluorodecanoic acid



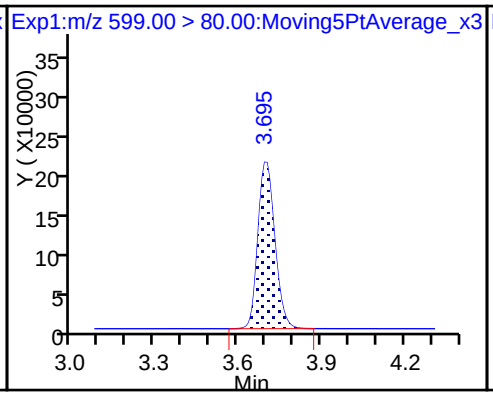
D 27 d3-NMeFOSAA



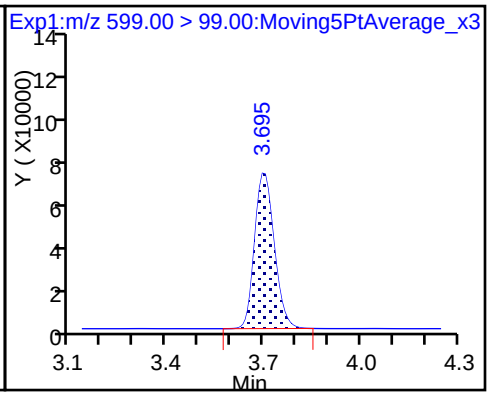
28 N-methyl perfluorooctane sulfonami



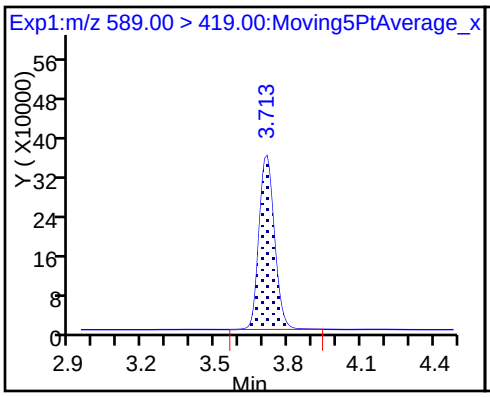
29 Perfluorodecane Sulfonic acid



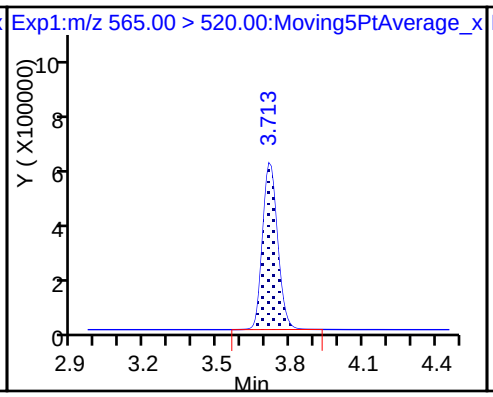
29 Perfluorodecane Sulfonic acid



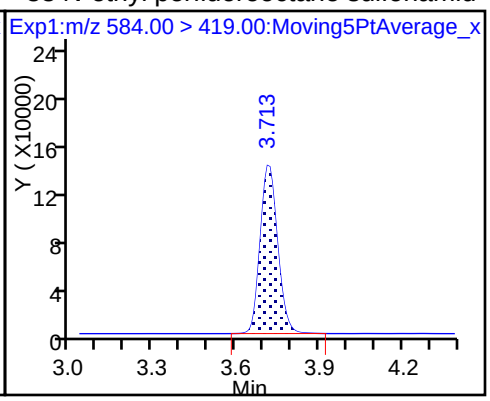
D 32 d5-NEtFOSAA



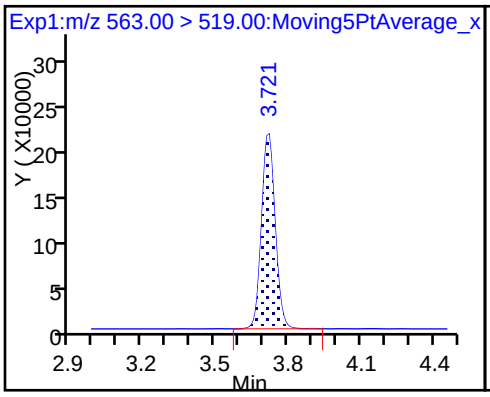
D 30 13C2 PFUnA



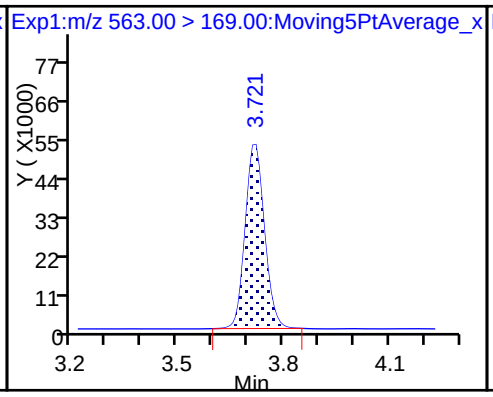
33 N-ethyl perfluorooctane sulfonamid



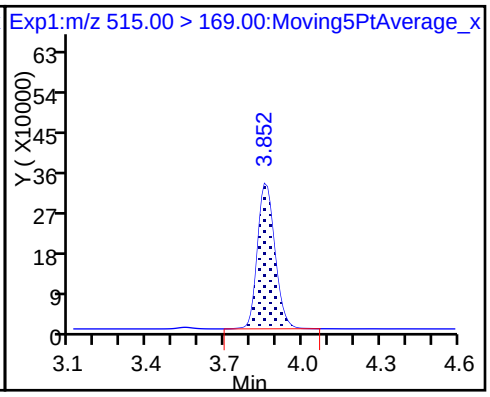
31 Perfluoroundecanoic acid



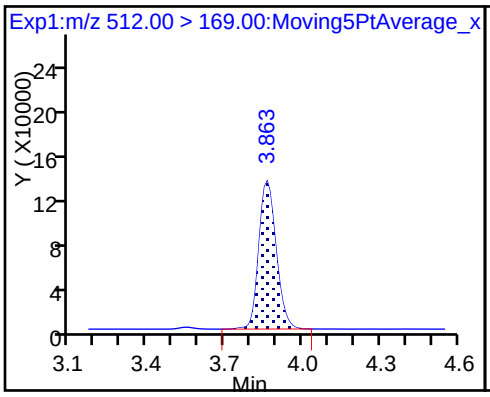
31 Perfluoroundecanoic acid



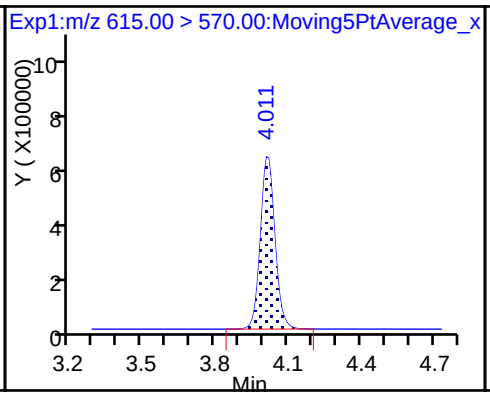
D 34 d-N-MeFOSA-M



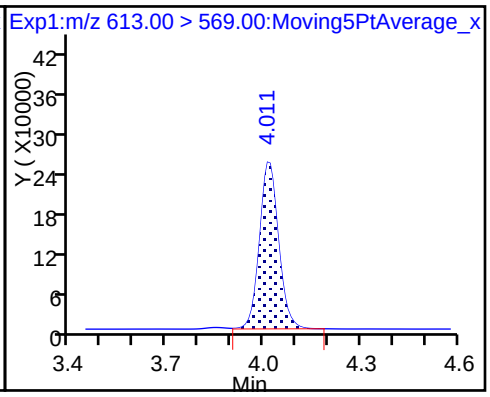
35 MeFOSA



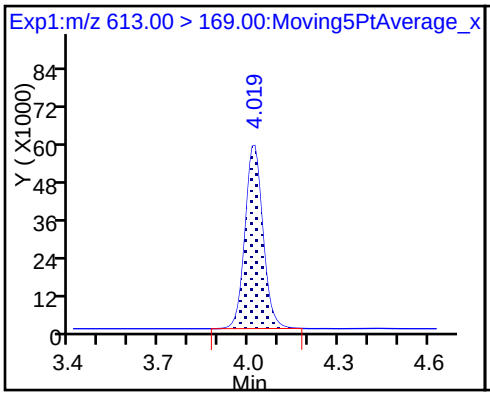
D 36 13C2 PFDoA



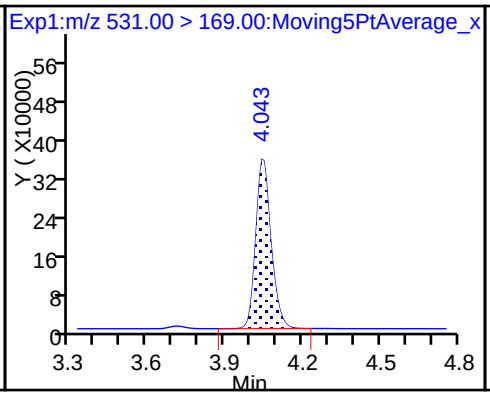
37 Perfluorododecanoic acid



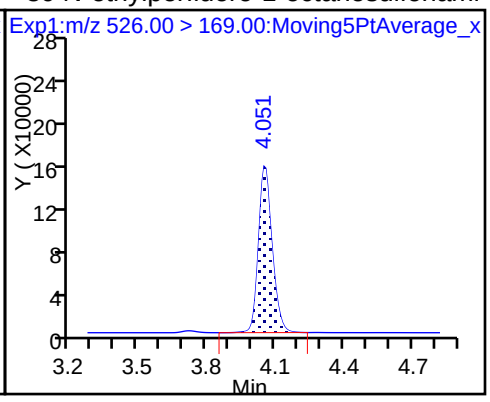
37 Perfluorododecanoic acid



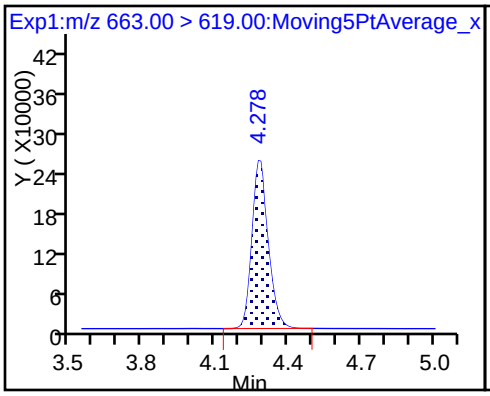
D 38 d-N-EtFOSA-M



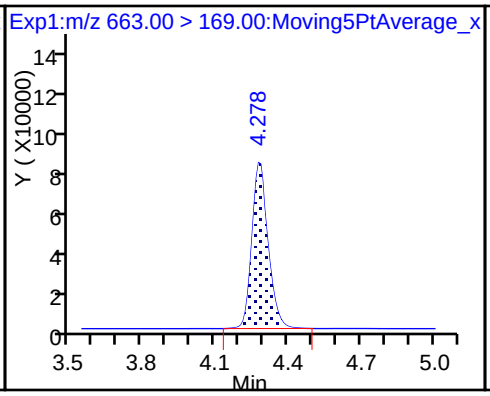
39 N-ethylperfluoro-1-octanesulfonami



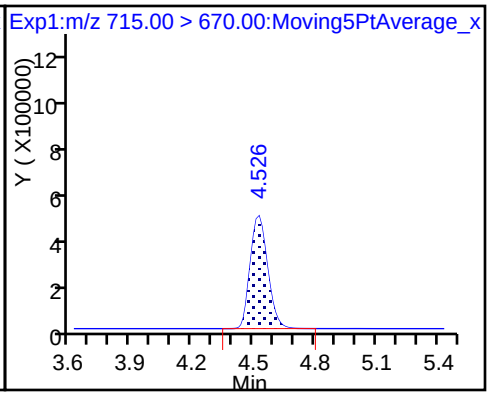
41 Perfluorotridecanoic acid



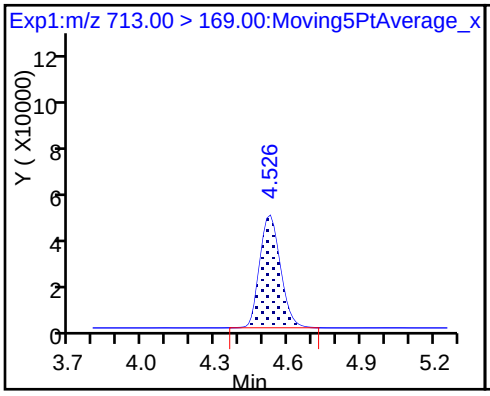
41 Perfluorotridecanoic acid



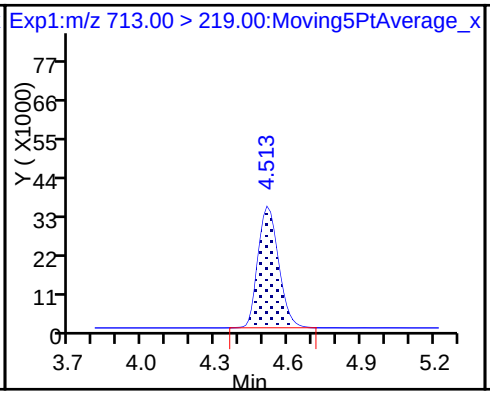
D 43 13C2-PFTeDA



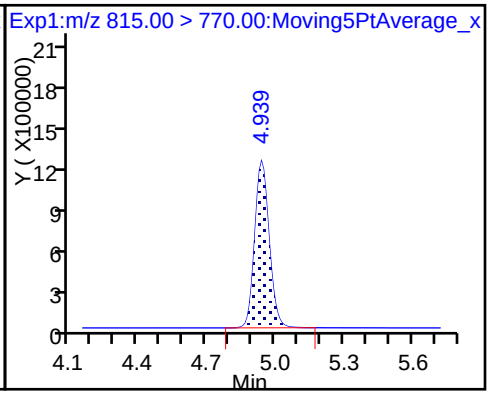
42 Perfluorotetradecanoic acid



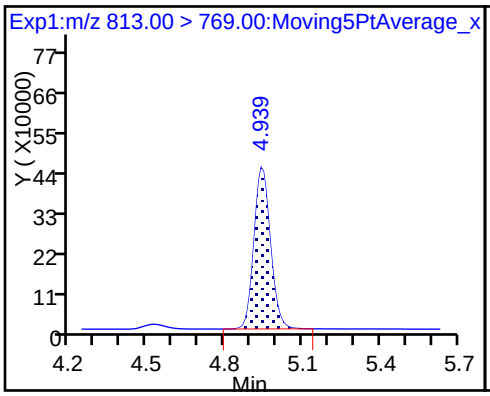
42 Perfluorotetradecanoic acid



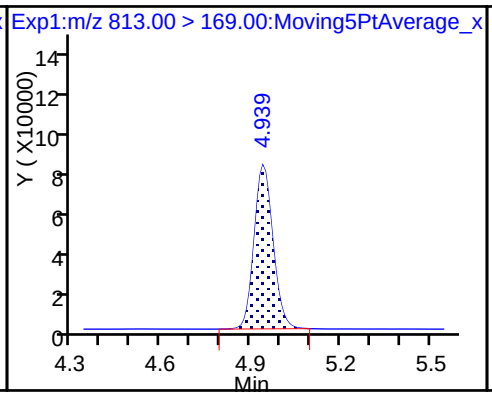
D 44 13C2-PFHxDA



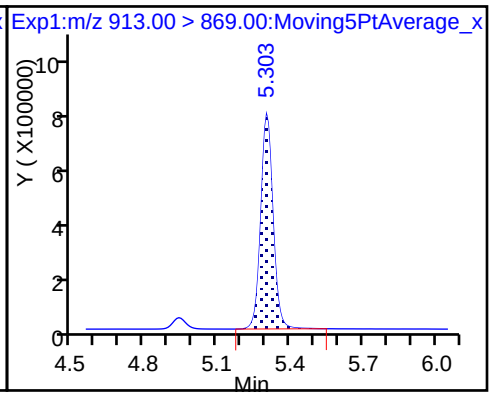
45 Perfluorohexadecanoic acid



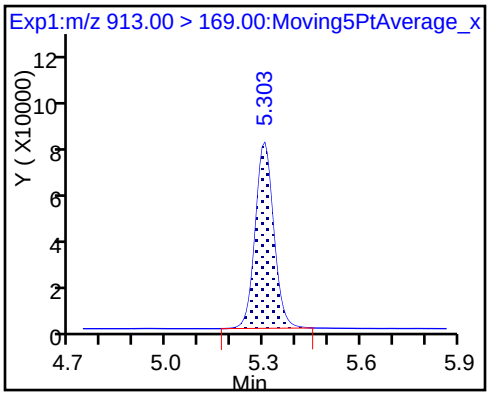
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento

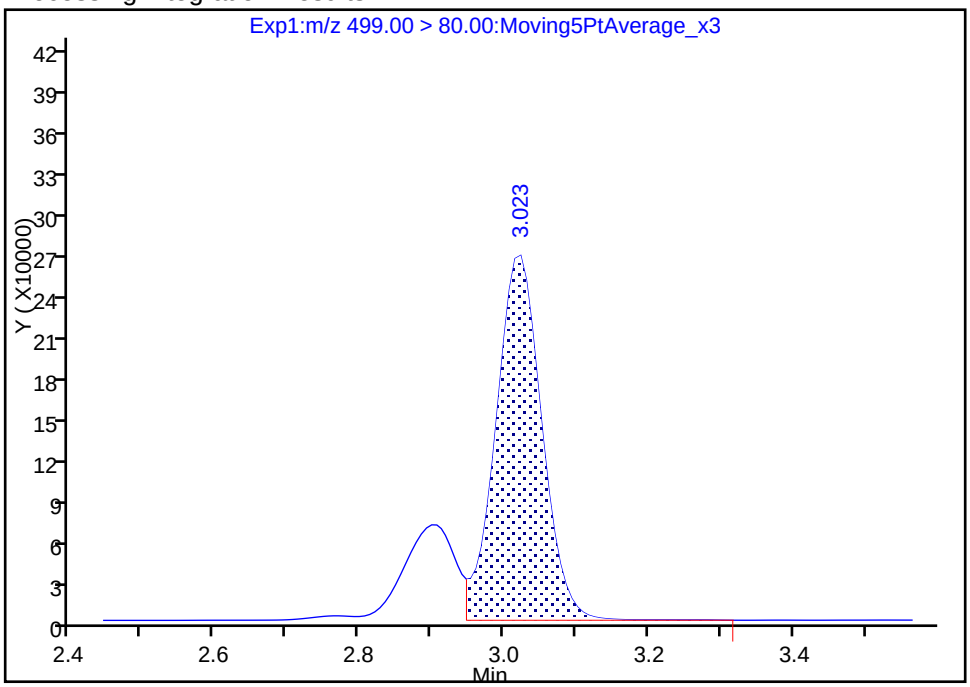
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_005.d
Injection Date: 14-Dec-2017 16:16:18 Instrument ID: A8_N
Lims ID: IC L4 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 1

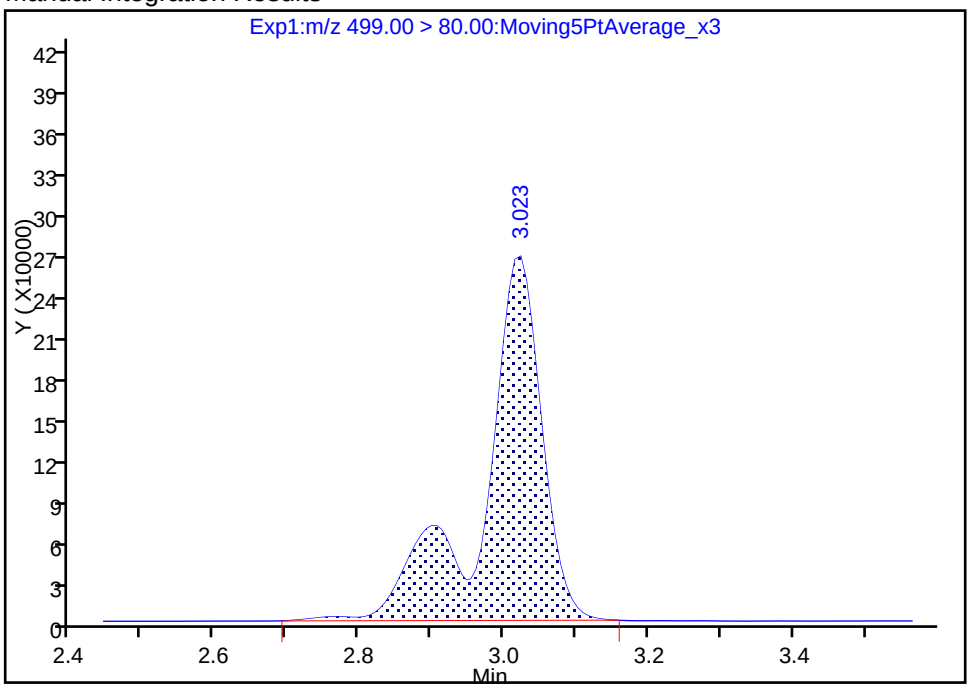
Processing Integration Results

RT: 3.02
Area: 1173678
Amount: 0.742524
Amount Units: ng/ml



Manual Integration Results

RT: 3.02
Area: 1511404
Amount: 0.929436
Amount Units: ng/ml



Reviewer: hannigana, 15-Dec-2017 08:10:32
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_006.d
Lims ID: IC L5 Full
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-Dec-2017 16:24:12 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L5-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub19

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 09:54:14 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK021

First Level Reviewer: phomsophat Date: 14-Dec-2017 19:10:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.405	1.406	-0.001	0.533	8254609	2.43		97.2	27913	
2 Perfluorobutyric acid										
212.90 > 169.00	1.405	1.408	-0.003	1.000	7746814	2.60		104	1833	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.657	1.656	0.001	1.000	5436044	2.47		98.7	8243	
D 3 13C5-PFPeA										
267.90 > 223.00	1.657	1.656	0.001	0.628	4951824	2.47		98.9	56714	
D 47 13C3-PFBS										
301.90 > 83.00	1.684	1.690	-0.006	0.638	97857	2.28		98.0	4371	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.693	1.692	0.001	1.005	7079075	2.29		104	31404	
298.90 > 99.00	1.693	1.692	0.001	1.005	2932248		2.41(1.25-3.74)	104	19892	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.897	1.902	-0.005	1.000	1181616	2.26		96.6	41775	
D 7 13C2 PFHxA										
315.00 > 270.00	1.938	1.938	0.0	0.734	5004702	2.39		95.7	39057	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.938	1.939	-0.001	1.000	5177959	2.62		105	13376	
313.00 > 119.00	1.938	1.939	-0.001	1.000	483948		10.70(5.03-15.10)	105	10391	
D 9 13C4-PFHpA										
367.00 > 322.00	2.271	2.272	-0.001	0.861	4714810	2.40		96.1	26769	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.271	2.273	-0.002	1.000	5061592	2.59		104	11178	
363.00 > 169.00	2.271	2.273	-0.002	1.000	1964194		2.58(1.13-3.40)	104	10796	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.284	2.285	-0.001	1.000	5589957	2.09		92.0	18013	
399.00 > 99.00	2.284	2.285	-0.001	1.000	1885836		2.96(1.50-4.49)	92.0	10068	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.284	2.286	-0.002	0.866	5721252	2.34		99.0	33674	
D 12 M2-6:2FTS										
429.00 > 81.00	2.624	2.625	-0.001	0.995	2661632	2.50		105	76680	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.624	2.625	-0.001	1.000	4173348	2.37		99.9	98972	
D 14 13C4 PFOA										
417.00 > 372.00	2.631	2.637	-0.006	0.997	5958852	2.51		101	40496	
* 62 13C2-PFOA										
415.00 > 370.00	2.638	2.638	0.0		5808077	2.50			42759	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.638	2.640	-0.002	1.003	6288354	2.48		99.3	12097	
413.00 > 169.00	2.638	2.640	-0.002	1.003	3365436		1.87(0.84-2.52)	99.3	17592	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.638	2.644	-0.006	1.000	5510579	2.50		105	47969	
449.00 > 99.00	2.638	2.644	-0.006	1.000	1454091		3.79(1.94-5.82)	105	19339	
D 18 13C4 PFOS										
503.00 > 80.00	3.010	3.014	-0.004	1.141	3576232	2.32		97.1	30037	
D 19 13C5 PFNA										
468.00 > 423.00	3.010	3.015	-0.005	1.141	3798000	2.42		96.8	40250	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.010	3.015	-0.005	1.000	3752802	2.36		102	11264	
499.00 > 99.00	3.010	3.015	-0.005	1.000	816000		4.60(2.31-6.93)	102	10274	
20 Perfluorononanoic acid										
463.00 > 419.00	3.010	3.017	-0.007	1.000	3921608	2.59		104	19380	
463.00 > 169.00	3.010	3.017	-0.007	1.000	920775		4.26(1.90-5.69)	104	19608	
D 21 13C8 FOSA										
506.00 > 78.00	3.350	3.354	-0.004	1.270	5352591	2.42		97.0	25558	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.350	3.356	-0.006	1.000	5237533	2.59		103	27436	
D 26 M2-8:2FTS										
529.00 > 81.00	3.365	3.368	-0.003	1.275	805003	2.28		95.0	18158	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.365	3.369	-0.004	1.000	1006926	2.46		103	27575	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.373	3.379	-0.006	1.000	3120364	2.58		103	25807	
513.00 > 169.00	3.373	3.379	-0.006	1.000	541196		5.77(2.36-7.09)	103	1723	
D 23 13C2 PFDA										
515.00 > 470.00	3.373	3.379	-0.006	1.278	3125298	2.44		97.7	30657	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.532	3.535	-0.003	1.339	1480753	2.43		97.1	20397	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.532	3.538	-0.006	1.000	1628068	2.63		105	9779	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.690	3.692	-0.002	1.000	2211386	2.49		103	44618	
599.00 > 99.00	3.690	3.692	-0.002	1.000	723552		3.06(1.39-4.16)	103	15870	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.699	3.704	-0.005	1.402	1490805	2.45		98.1	5916	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.707	3.709	-0.002	1.405	2395817	2.46		98.5	29682	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.707	3.710	-0.003	1.002	1459440	2.54		101	18660	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.707	3.711	-0.004	1.000	2096337	2.41		96.4	18048	
563.00 > 169.00	3.707	3.711	-0.004	1.000	485806		4.32(0.00-0.00)	96.4	18420	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.846	3.850	-0.004	1.458	1513451	2.34		93.5	4150	
35 MeFOSA										
512.00 > 169.00	3.856	3.856	0.0	1.002	1585685	2.61		105	4059	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.006	4.008	-0.002	1.000	2520689	2.47		98.8	9875	
613.00 > 169.00	4.006	4.008	-0.002	1.000	627099		4.02(2.13-6.40)	98.8	25416	
D 36 13C2 PFDoA										
615.00 > 570.00	4.006	4.008	-0.002	1.518	2620258	2.52		101	32215	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.037	4.039	-0.002	1.530	1430038	2.39		95.5	3321	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.045	4.047	-0.002	1.002	1552335	2.63		105	3290	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.271	4.275	-0.004	1.000	2847913	2.46		98.5	24465	
663.00 > 169.00	4.271	4.275	-0.004	1.000	869042		3.28(1.25-3.76)	98.5	32339	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.515	4.519	-0.004	1.000	685395	2.38		95.4	16725	
713.00 > 219.00	4.501	4.519	-0.018	0.997	505672		1.36(0.71-2.13)	95.4	17159	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.515	4.519	-0.004	1.711	2876204	2.55		102	29001	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.932	4.935	-0.003	1.000	4775816	2.65		106	3464	
813.00 > 169.00	4.932	4.935	-0.003	1.000	789388		6.05(2.86-8.58)	106	7504	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.932	4.935	-0.003	1.869	5082731	2.46		98.3	15652	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.296	5.299	-0.003	1.000	5886423	2.57		103	1470	
913.00 > 169.00	5.296	5.299	-0.003	1.000	739936		7.96(0.00-0.00)	103	2723	

Reagents:

LCPFC_LL5_00002 Amount Added: 1.00 Units: mL

Report Date: 15-Dec-2017 09:54:16 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_006.d

Injection Date: 14-Dec-2017 16:24:12 Instrument ID: A8_N

Lims ID: IC L5 Full

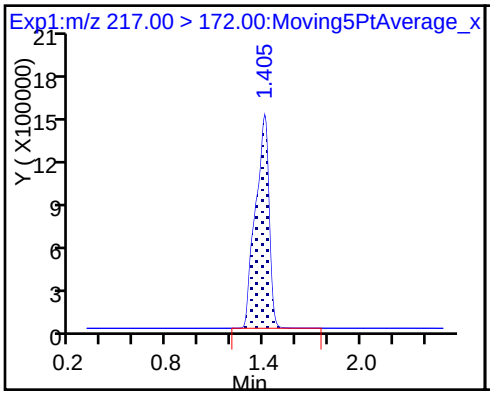
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Operator ID: SACINSTLCMS01 ALS Bottle#: 14 Worklist Smp#: 6

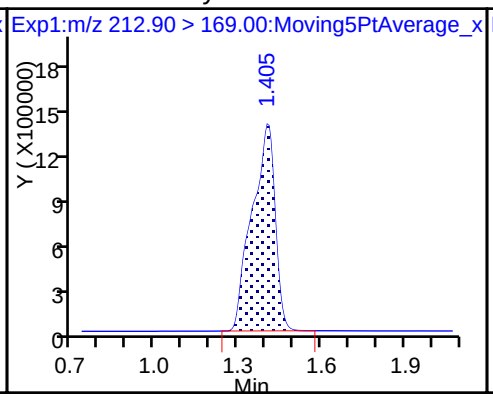
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

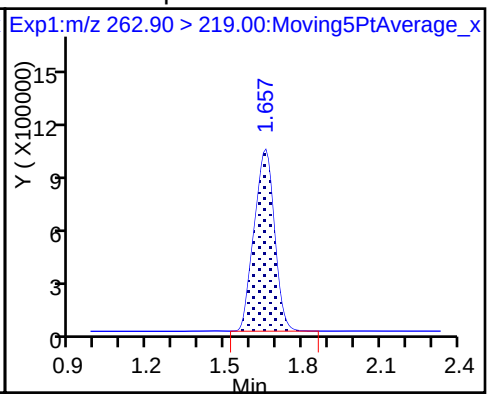
D 1 13C4 PFBA



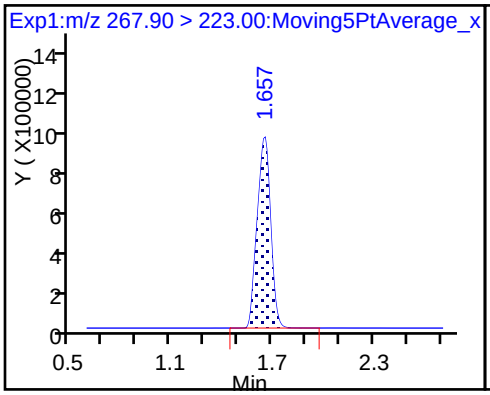
2 Perfluorobutyric acid



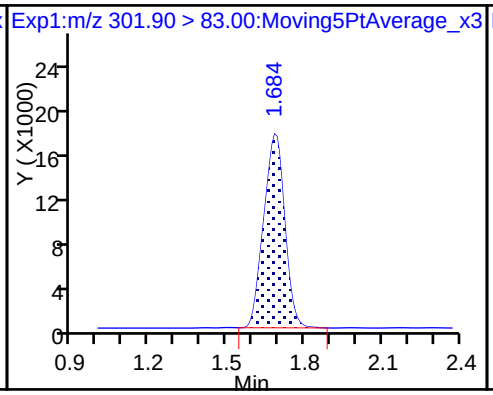
4 Perfluoropentanoic acid



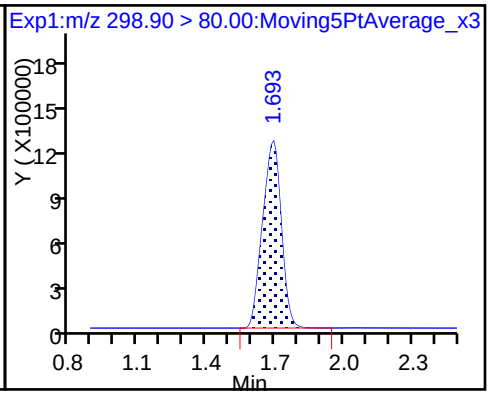
D 3 13C5-PFPeA



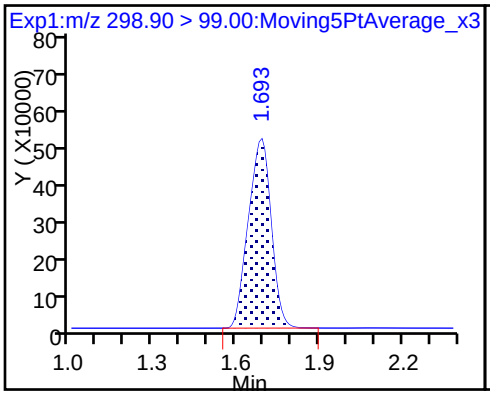
D 47 13C3-PFBS



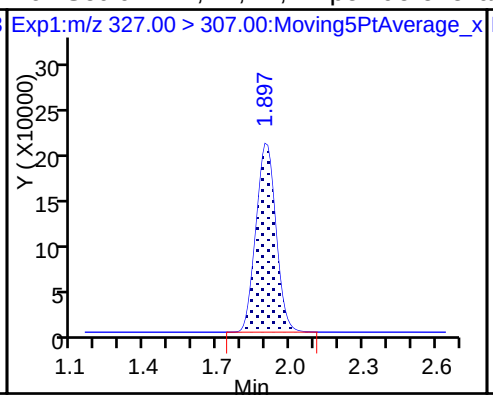
5 Perfluorobutanesulfonic acid



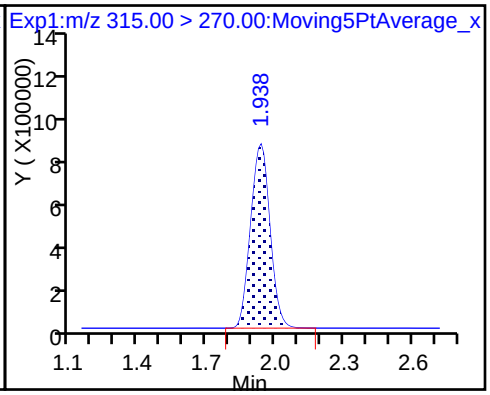
5 Perfluorobutanesulfonic acid



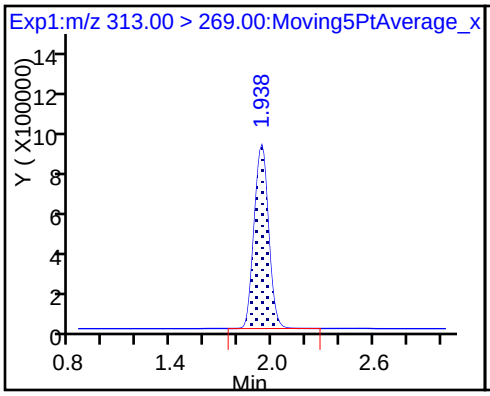
61 Sodium 1H,1H,2H,2H-perfluorohexa



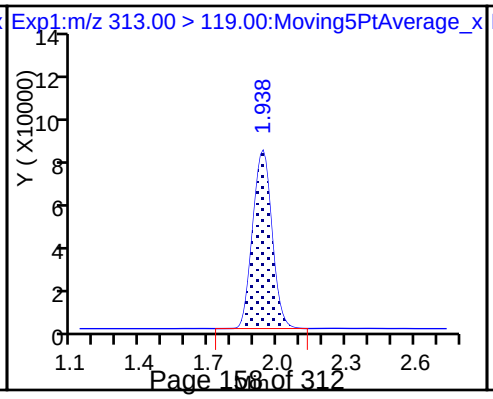
D 7 13C2 PFHxA



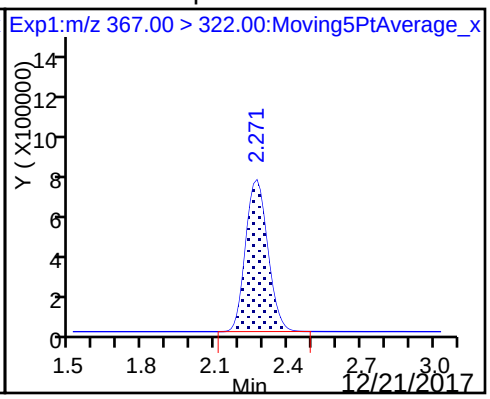
6 Perfluorohexanoic acid



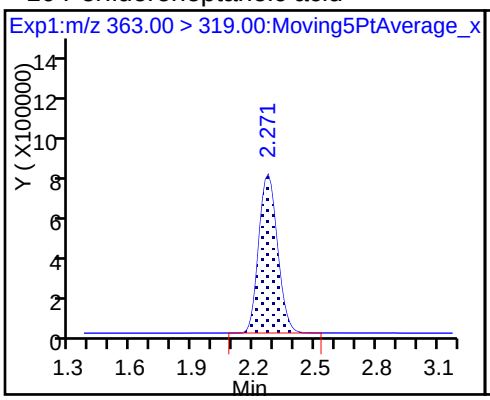
6 Perfluorohexanoic acid



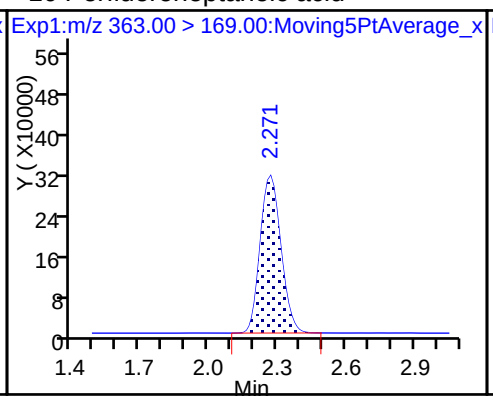
D 9 13C4-PFHpA



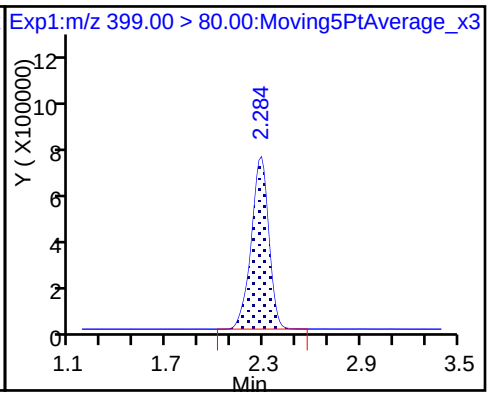
10 Perfluoroheptanoic acid



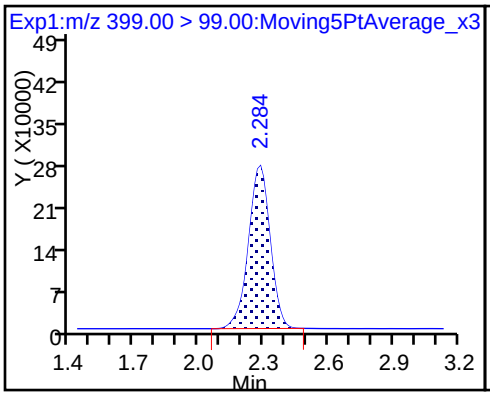
10 Perfluoroheptanoic acid



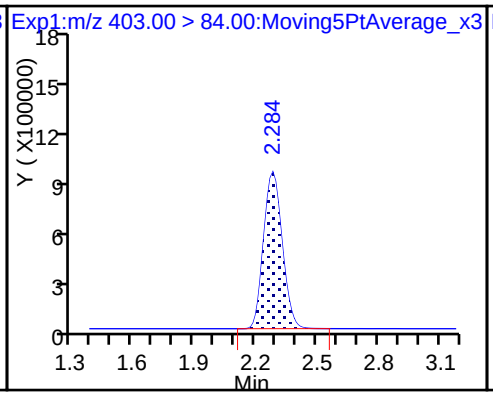
8 Perfluorohexanesulfonic acid



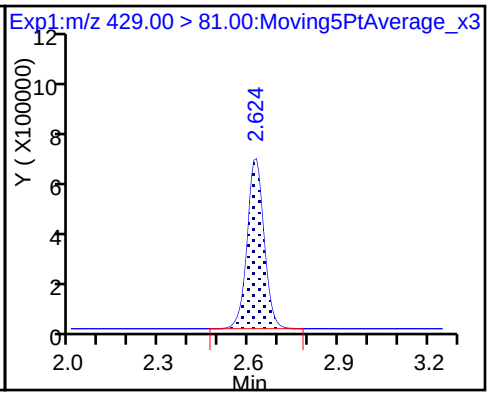
8 Perfluorohexanesulfonic acid



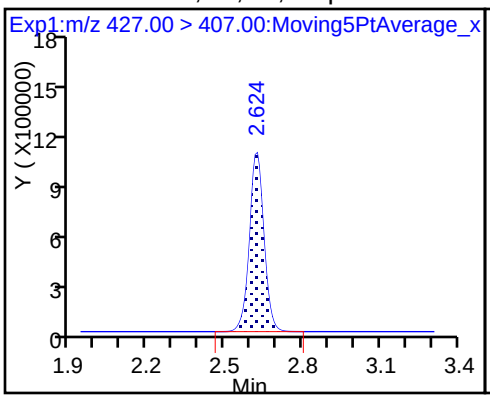
D 11 18O2 PFHxS



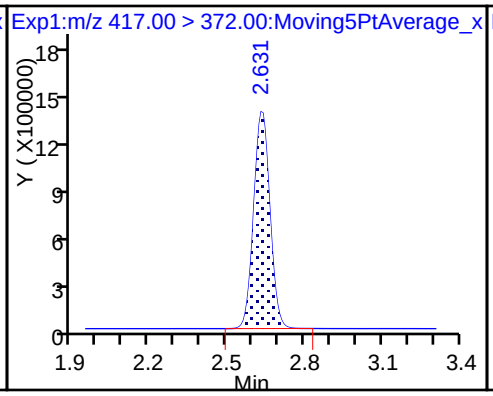
D 12 M2-6:2FTS



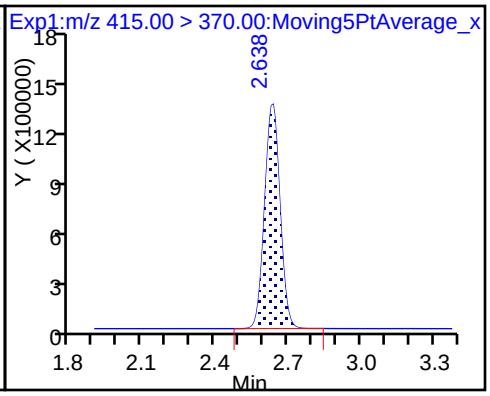
13 Sodium 1H,1H,2H,2H-perfluorooctane



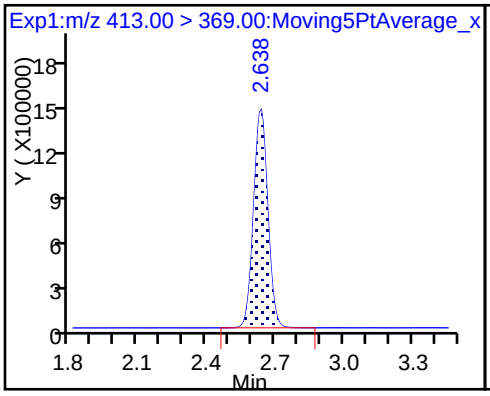
D 14 13C4 PFOA



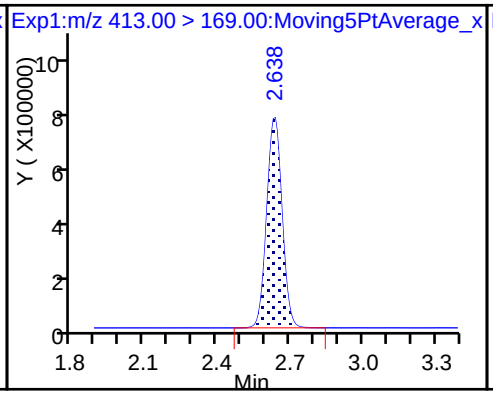
* 62 13C2-PFOA



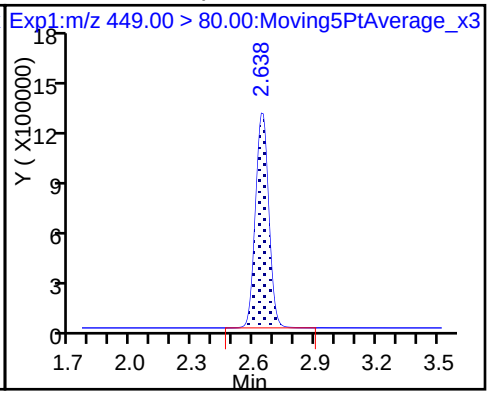
15 Perfluorooctanoic acid



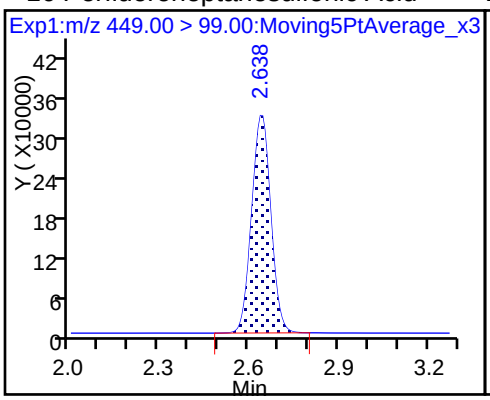
15 Perfluorooctanoic acid



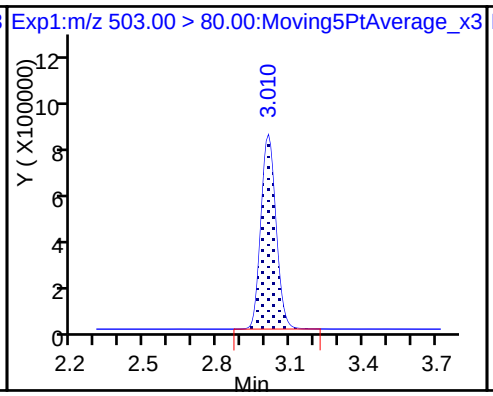
16 Perfluoroheptanesulfonic Acid



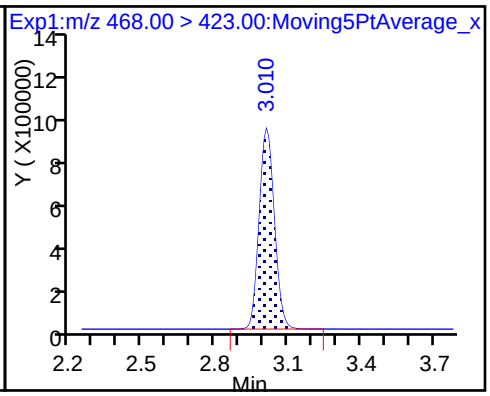
16 Perfluoroheptanesulfonic Acid



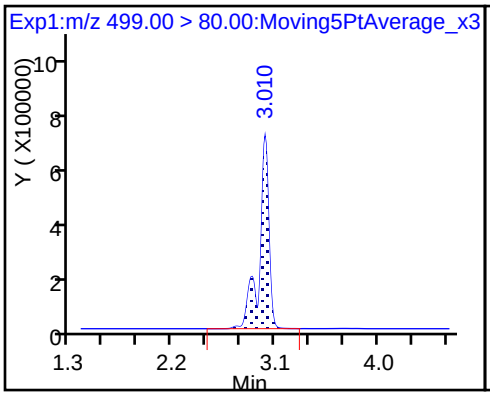
D 18 13C4 PFOS



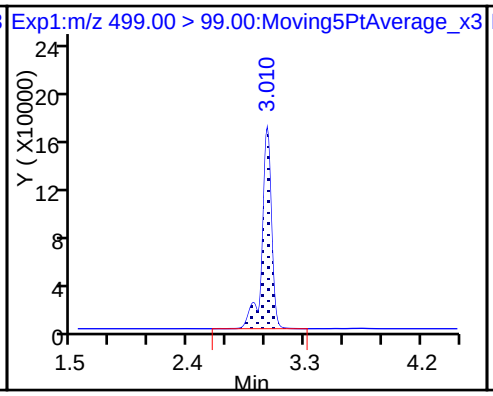
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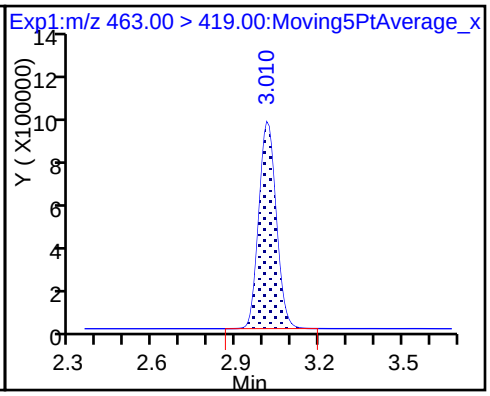
17 Perfluorooctane sulfonic acid



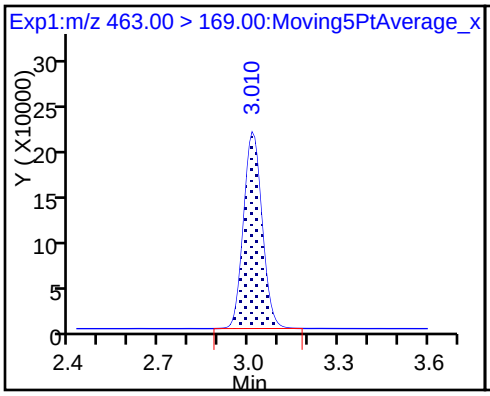
17 Perfluorooctane sulfonic acid



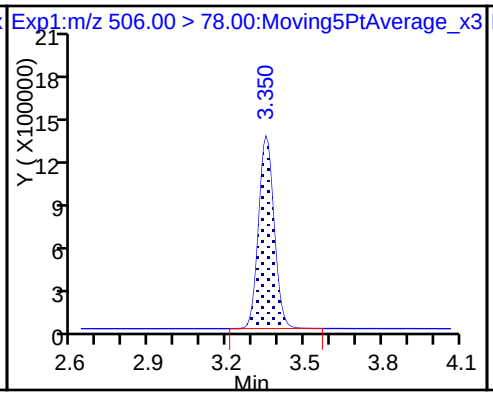
20 Perfluorononanoic acid



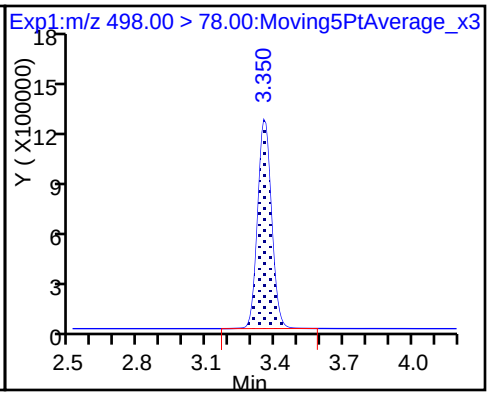
20 Perfluorononanoic acid



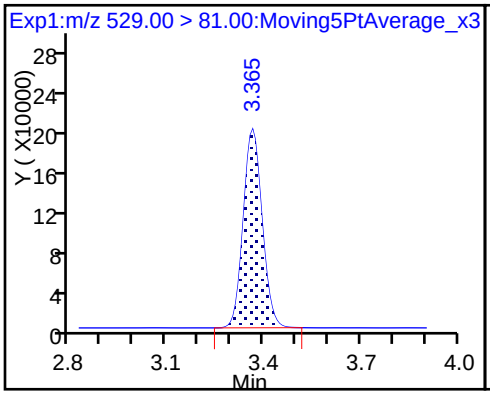
D 21 13C8 FOSA



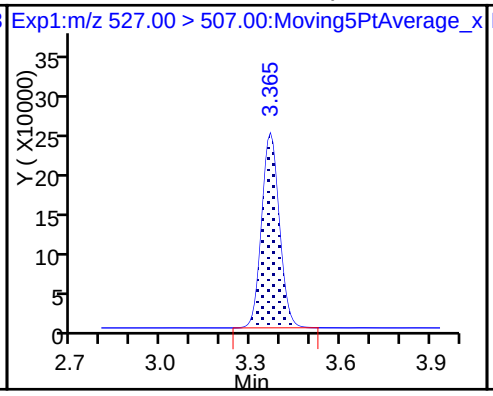
22 Perfluorooctane Sulfonamide



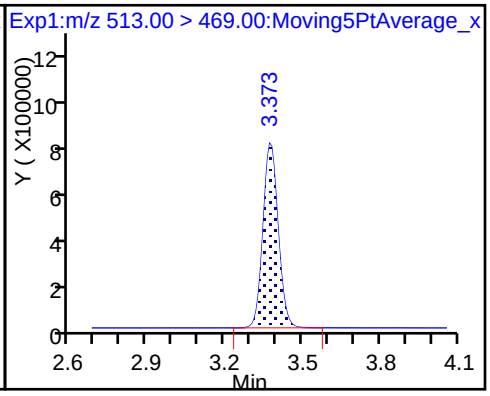
D 26 M2-8:2FTS



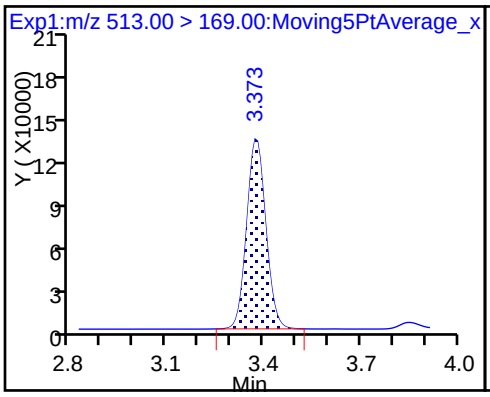
25 Sodium 1H,1H,2H,2H-perfluorodecan



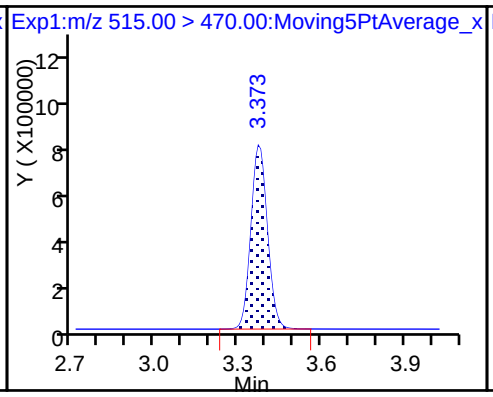
24 Perfluorodecanoic acid



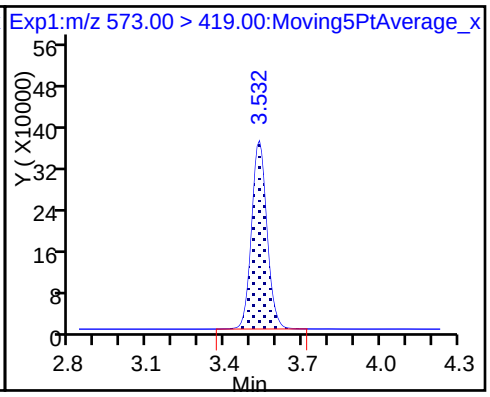
24 Perfluorodecanoic acid



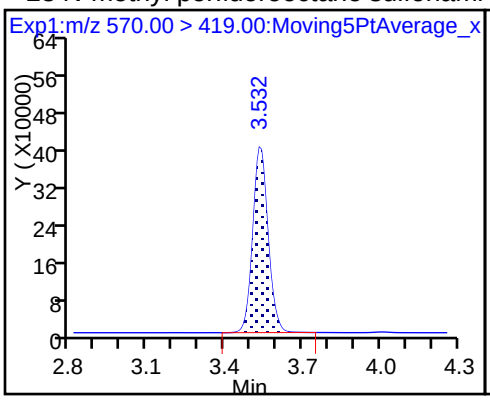
D 23 13C2 PFDA



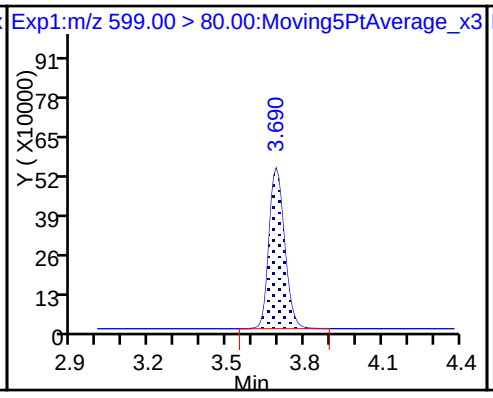
D 27 d3-NMeFOSAA



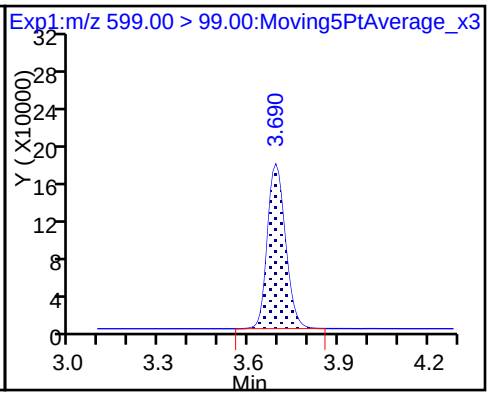
28 N-methyl perfluorooctane sulfonami



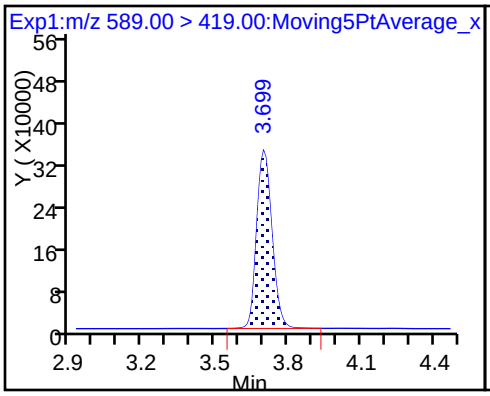
29 Perfluorodecane Sulfonic acid



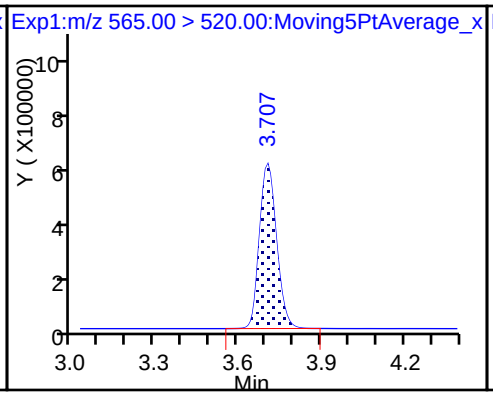
29 Perfluorodecane Sulfonic acid



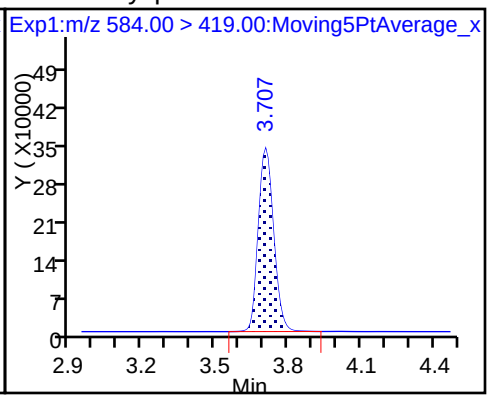
D 32 d5-NEtFOSAA



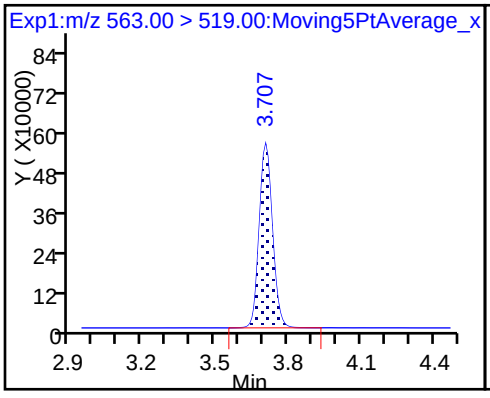
D 30 13C2 PFUnA



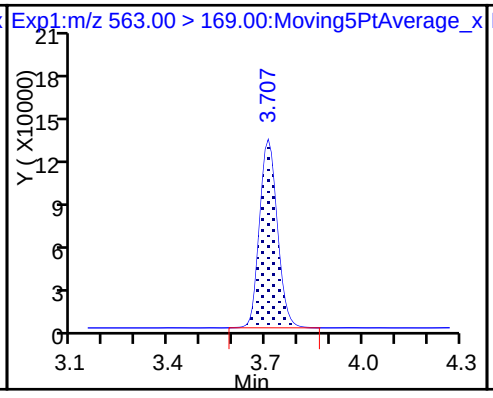
33 N-ethyl perfluorooctane sulfonamid



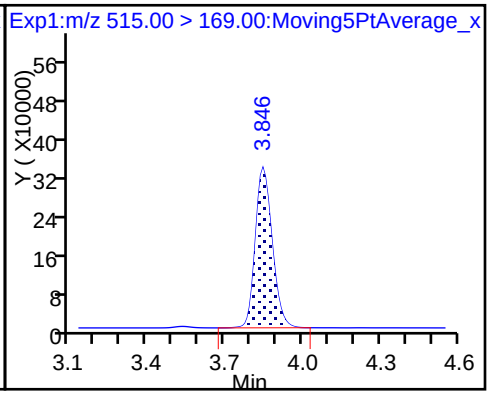
31 Perfluoroundecanoic acid



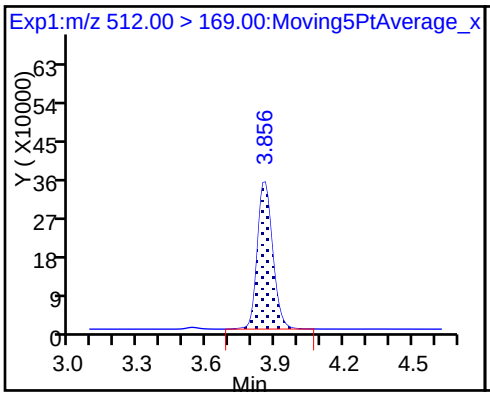
31 Perfluoroundecanoic acid



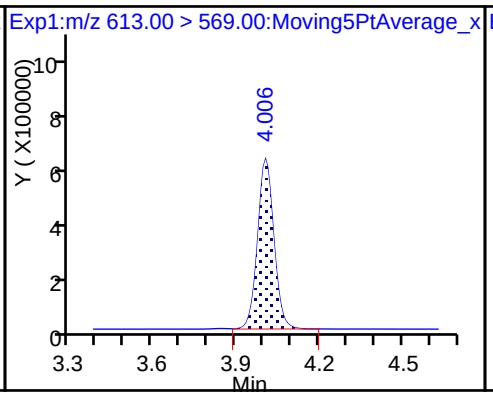
D 34 d-N-MeFOSA-M



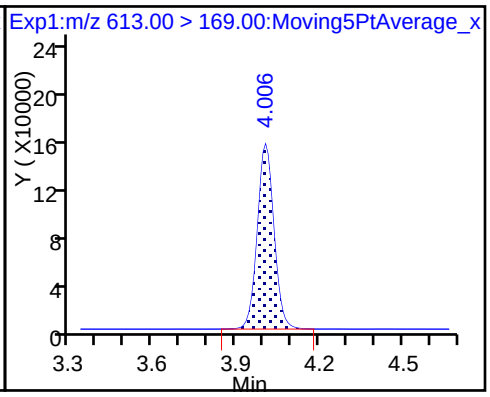
35 MeFOSA



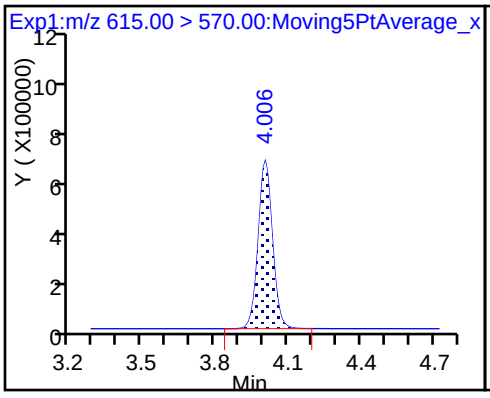
37 Perfluorododecanoic acid



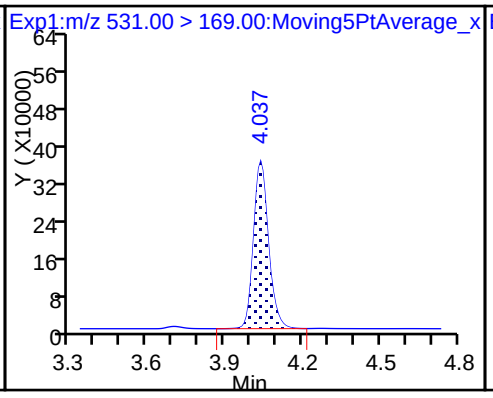
37 Perfluorododecanoic acid



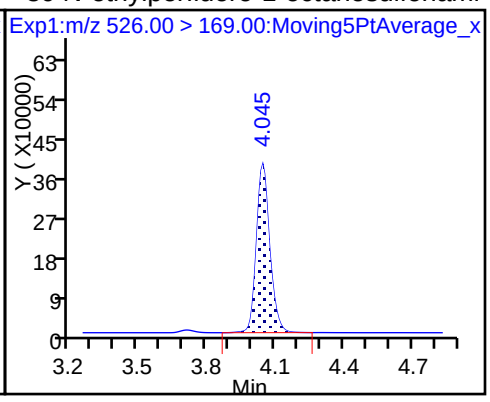
D 36 13C2 PFDoA



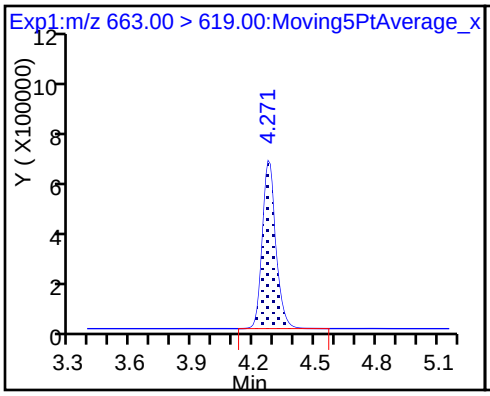
D 38 d-N-EtFOSA-M



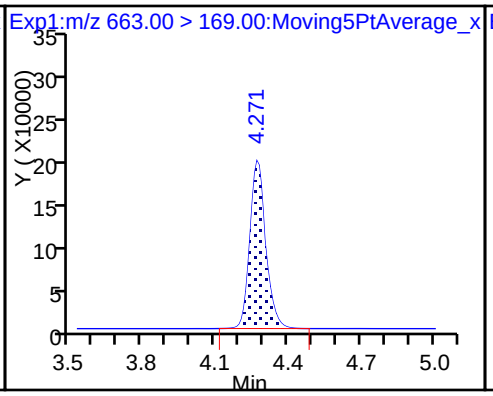
39 N-ethylperfluoro-1-octanesulfonami



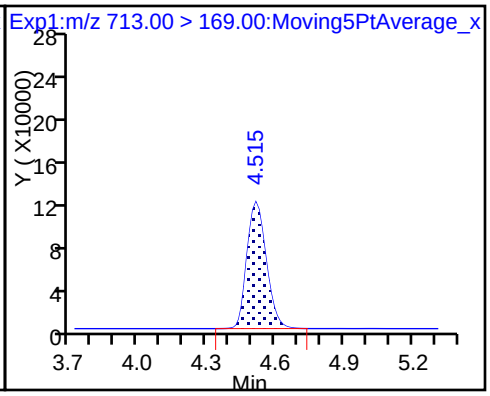
41 Perfluorotridecanoic acid



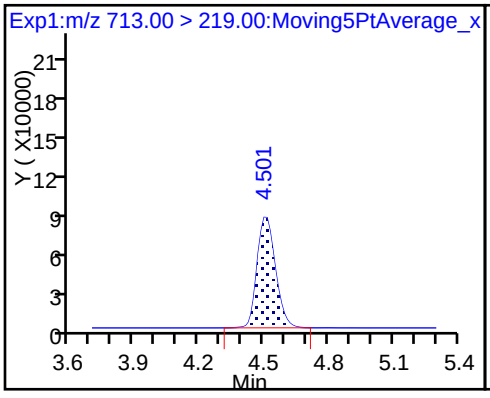
41 Perfluorotridecanoic acid



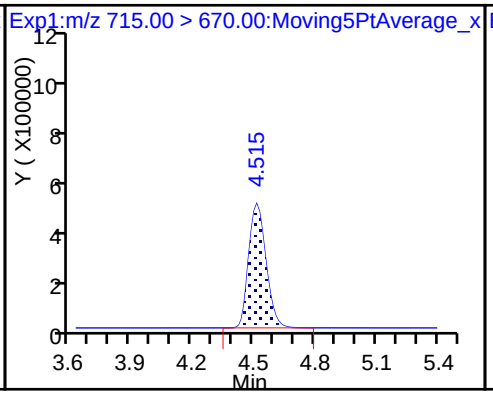
42 Perfluorotetradecanoic acid



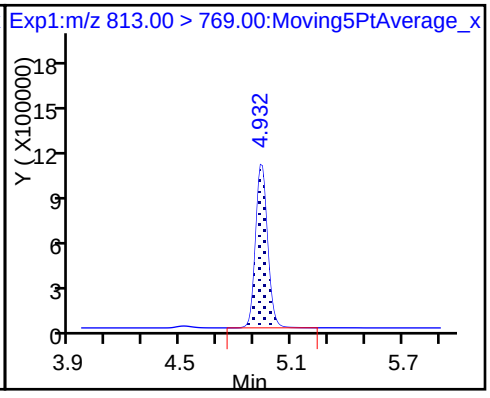
42 Perfluorotetradecanoic acid



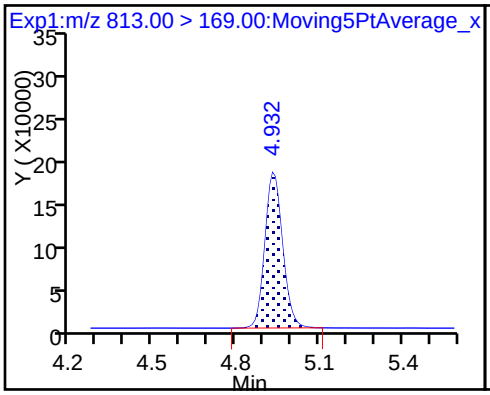
D 43 13C2-PFTeDA



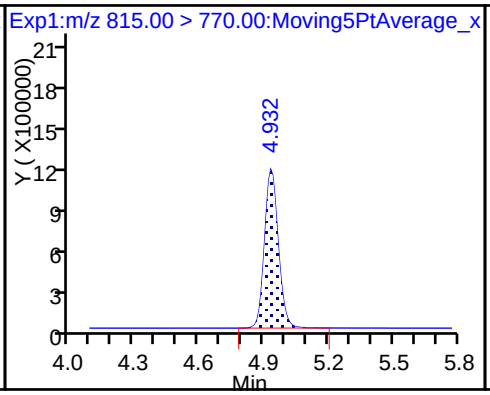
45 Perfluorohexadecanoic acid



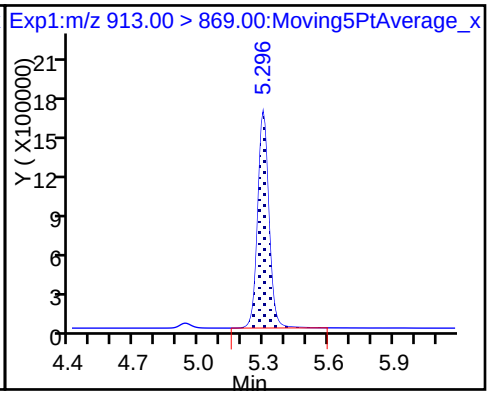
45 Perfluorohexadecanoic acid



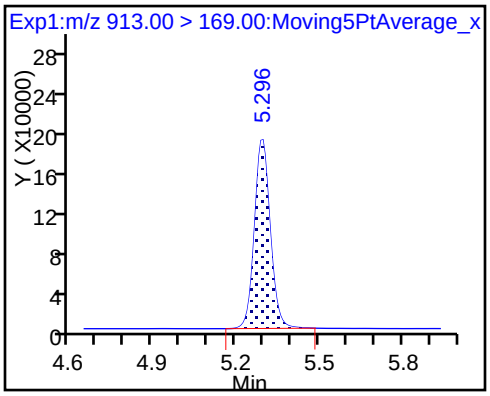
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_007.d
Lims ID: IC L6 Full
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 14-Dec-2017 16:32:04 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L6-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub19

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 09:54:18 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK021

First Level Reviewer: phomsophat Date: 14-Dec-2017 19:10:33

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.406	1.406	0.0	0.534	8281403	2.53		101	24292	
2 Perfluorobutyric acid										
212.90 > 169.00	1.406	1.408	-0.002	1.000	15381830	5.15		103	3400	
D 3 13C5-PFPeA										
267.90 > 223.00	1.660	1.656	0.004	0.630	4823648	2.50		100	68428	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.660	1.656	0.004	1.000	10701627	4.99		99.7	15067	
D 47 13C3-PFBS										
301.90 > 83.00	1.687	1.690	-0.004	0.640	95121	2.30		98.9	4177	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.695	1.692	0.003	1.005	13712842	4.57		103	46789	
298.90 > 99.00	1.695	1.692	0.003	1.005	5735009		2.39(1.25-3.74)	103	32279	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.899	1.902	-0.003	1.000	2448157	5.83		125	72845	
D 7 13C2 PFHxA										
315.00 > 270.00	1.940	1.938	0.002	0.736	5154860	2.56		102	51988	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.940	1.939	0.001	1.000	10140951	4.99		99.7	23933	
313.00 > 119.00	1.940	1.939	0.001	1.000	921524		11.00(5.03-15.10)	99.7	19855	
D 9 13C4-PFHpA										
367.00 > 322.00	2.275	2.272	0.003	0.863	4701313	2.49		99.6	26754	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.275	2.273	0.002	1.000	9952472	5.11		102	19621	
363.00 > 169.00	2.275	2.273	0.002	1.000	3842294		2.59(1.13-3.40)	102	24410	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.275	2.285	-0.010	0.994	11114182	4.32		94.9	23326	
399.00 > 99.00	2.288	2.285	0.003	1.000	3692854		3.01(1.50-4.49)	94.9	15347	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.288	2.286	0.002	0.868	5511888	2.34		99.1	25625	
D 12 M2-6:2FTS										
429.00 > 81.00	2.628	2.625	0.003	0.997	2132417	2.08		87.5	68091	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.628	2.625	0.003	1.000	6446185	4.56		96.3	90350	
D 14 13C4 PFOA										
417.00 > 372.00	2.635	2.637	-0.002	1.000	5601855	2.45		98.2	39325	
* 62 13C2-PFOA										
415.00 > 370.00	2.635	2.638	-0.003		5590366	2.50			51700	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.642	2.640	0.002	1.003	12005487	5.04		101	19597	
413.00 > 169.00	2.635	2.640	-0.005	1.000	6407596		1.87(0.84-2.52)	101	29021	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.642	2.644	-0.002	1.000	10821490	4.83		101	58694	
449.00 > 99.00	2.642	2.644	-0.002	1.000	2877383		3.76(1.94-5.82)	101	26889	
D 18 13C4 PFOS										
503.00 > 80.00	3.015	3.014	0.001	1.144	3632697	2.45		103	27581	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.015	3.015	0.0	1.000	7556177	4.68		101	14759	
499.00 > 99.00	3.015	3.015	0.0	1.000	1640400		4.61(2.31-6.93)	101	15184	
D 19 13C5 PFNA										
468.00 > 423.00	3.015	3.015	0.0	1.144	3870530	2.56		102	41440	
20 Perfluorononanoic acid										
463.00 > 419.00	3.015	3.017	-0.002	1.000	7561124	4.90		98.0	27466	
463.00 > 169.00	3.015	3.017	-0.002	1.000	1811744		4.17(1.90-5.69)	98.0	35261	
D 21 13C8 FOSA										
506.00 > 78.00	3.354	3.354	0.0	1.273	5324779	2.51		100	24863	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.361	3.356	0.005	1.002	10460648	5.19		104	37084	
D 26 M2-8:2FTS										
529.00 > 81.00	3.369	3.368	0.001	1.279	831573	2.44		102	18953	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.369	3.369	0.0	1.000	2004582	4.74		99.0	38220	
D 23 13C2 PFDA										
515.00 > 470.00	3.384	3.379	0.005	1.284	3101150	2.52		101	50614	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.384	3.379	0.005	1.000	6207557	5.18		104	32609	
513.00 > 169.00	3.384	3.379	0.005	1.000	1074593		5.78(2.36-7.09)	104	2012	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.535	3.535	0.0	1.342	1479742	2.52		101	13521	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.543	3.538	0.005	1.002	3194509	5.17		103	12961	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.694	3.692	0.002	1.000	4271524	4.73		98.2	39065	
599.00 > 99.00	3.694	3.692	0.002	1.000	1430138		2.99(1.39-4.16)	98.2	26166	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.703	3.704	-0.001	1.405	1478428	2.53		101	5651	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.712	3.709	0.003	1.409	2438040	2.60		104	33897	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.712	3.710	0.002	1.002	2918773	5.11		102	23235	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.712	3.711	0.001	1.000	4338960	4.90		98.1	28060	
563.00 > 169.00	3.712	3.711	0.001	1.000	964599		4.50(0.00-0.00)	98.1	42718	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.851	3.850	0.001	1.462	1545427	2.48		99.2	3817	
35 MeFOSA										
512.00 > 169.00	3.862	3.856	0.006	1.003	3171304	5.12		102	4004	
D 36 13C2 PFDoA										
615.00 > 570.00	4.010	4.008	0.002	1.522	2490930	2.49		99.5	29210	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.010	4.008	0.002	1.000	5033656	5.19		104	21320	
613.00 > 169.00	4.010	4.008	0.002	1.000	1248427		4.03(2.13-6.40)	104	25652	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.042	4.039	0.003	1.534	1470478	2.55		102	2742	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.049	4.047	0.002	1.002	3126044	5.15		103	3260	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.277	4.275	0.002	1.000	5624317	5.11		102	40978	
663.00 > 169.00	4.277	4.275	0.002	1.000	1728613		3.25(1.25-3.76)	102	35688	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.519	4.519	0.0	1.715	2785323	2.57		103	18415	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.519	4.519	0.0	1.000	1387109	4.98		99.6	21547	
713.00 > 219.00	4.505	4.519	-0.014	0.997	915985		1.51(0.71-2.13)	99.6	15586	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.934	4.935	-0.001	1.873	4882215	2.45		98.1	13590	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.934	4.935	-0.001	1.000	8784105	5.10		102	5781	
813.00 > 169.00	4.934	4.935	-0.001	1.000	1582817		5.55(2.86-8.58)	102	11283	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.299	5.299	0.0	1.000	11426082	5.19		104	2364	
913.00 > 169.00	5.299	5.299	0.0	1.000	1391566		8.21(0.00-0.00)	104	2791	

Reagents:

LCPFC_LL6_00002 Amount Added: 1.00 Units: mL

Report Date: 15-Dec-2017 09:54:19 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_007.d

Injection Date: 14-Dec-2017 16:32:04 Instrument ID: A8_N

Lims ID: IC L6 Full

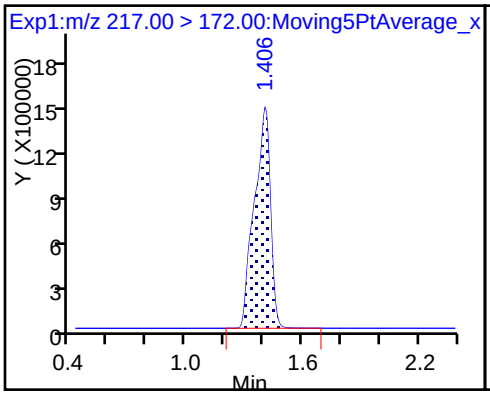
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Operator ID: SACINSTLCMS01 ALS Bottle#: 15 Worklist Smp#: 7

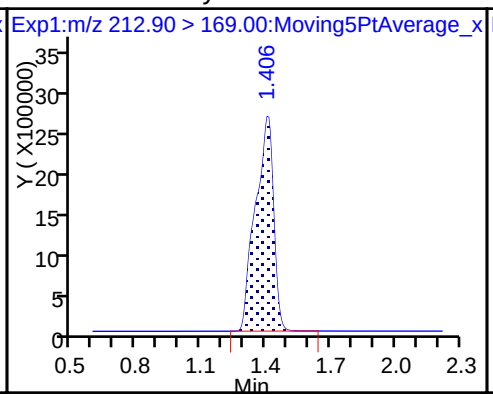
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

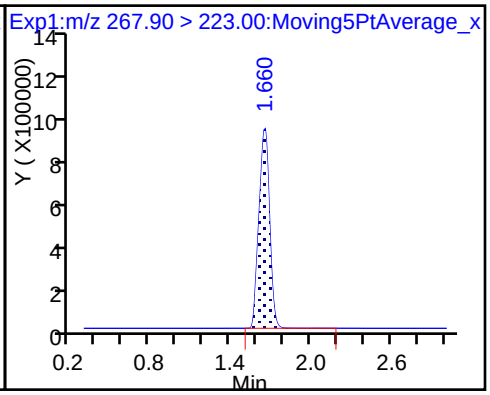
D 1 13C4 PFBA



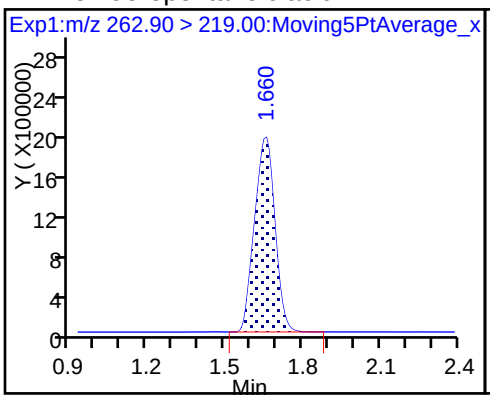
2 Perfluorobutyric acid



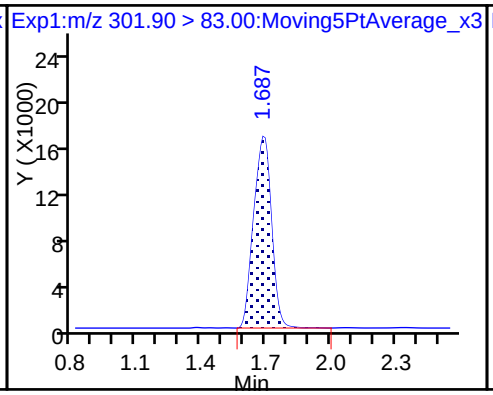
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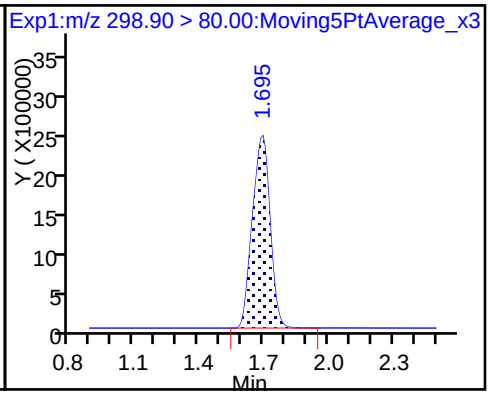
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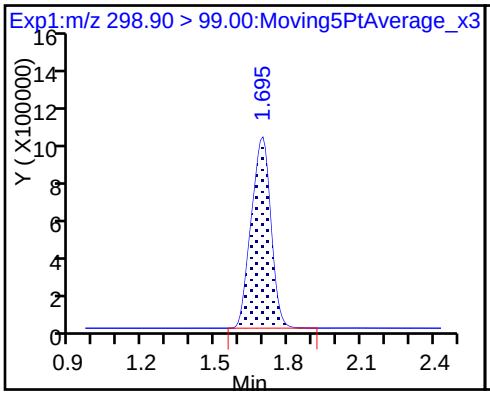
D 47 13C3-PFBS



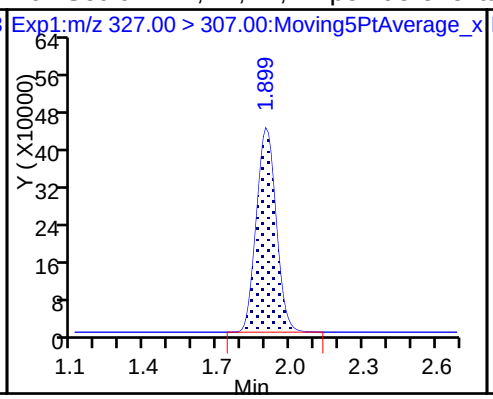
5 Perfluorobutanesulfonic acid



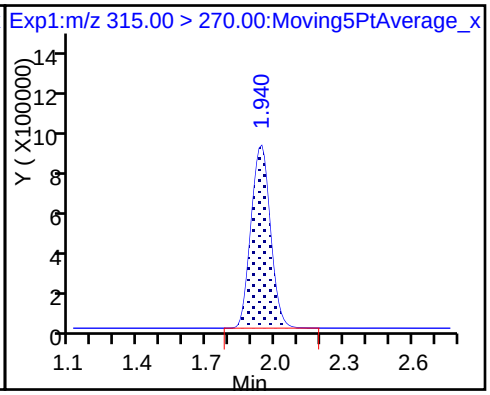
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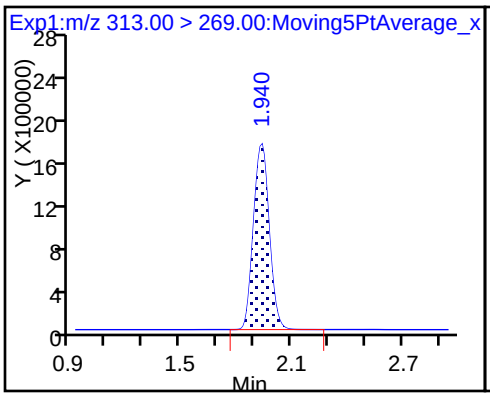
61 Sodium 1H,1H,2H,2H-perfluorohexa



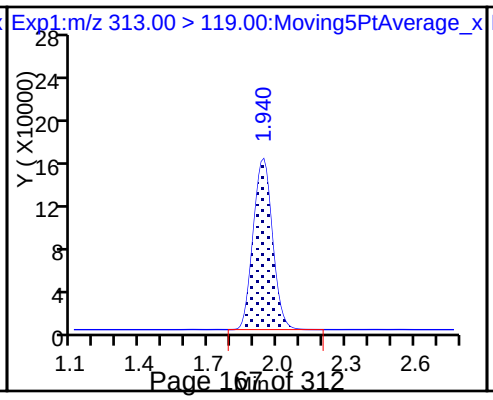
D 7 13C2 PFHxA



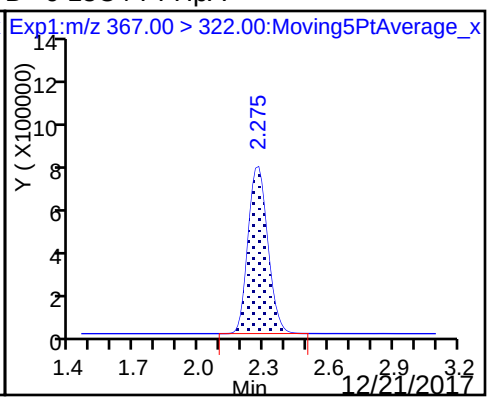
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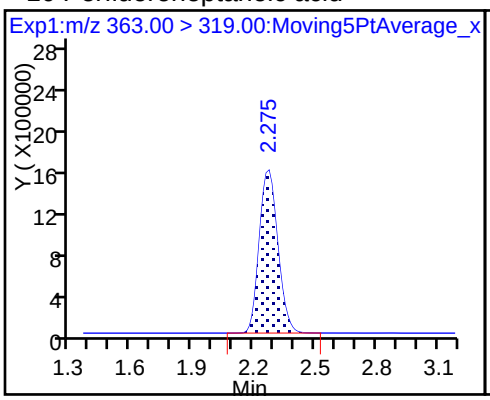
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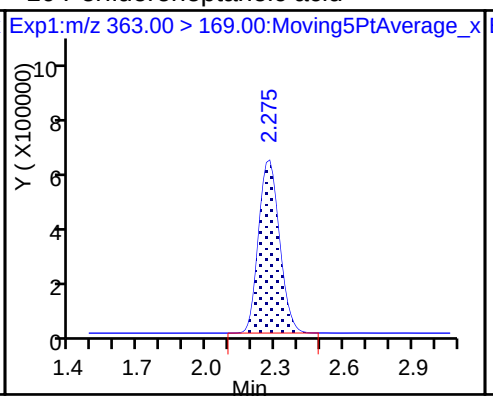
D 9 13C4-PFHpA



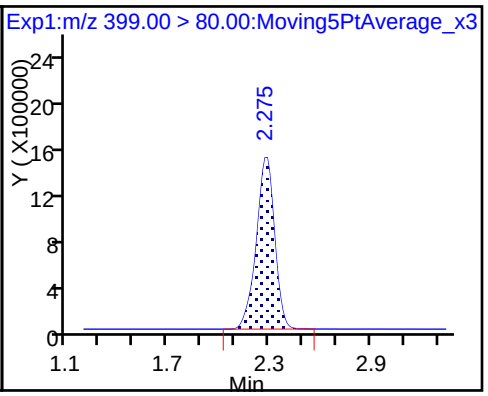
10 Perfluoroheptanoic acid



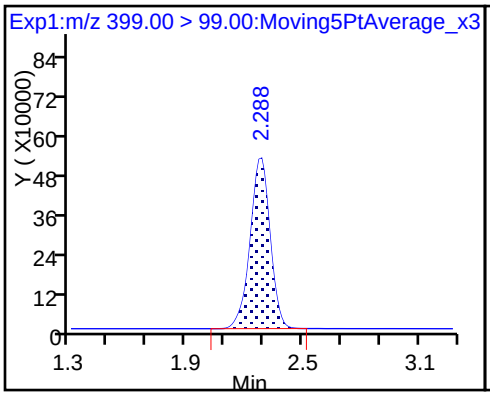
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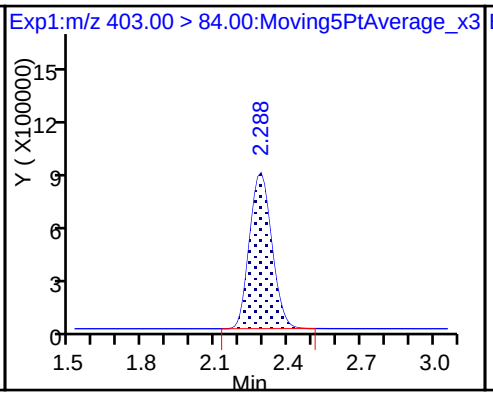
8 Perfluorohexanesulfonic acid



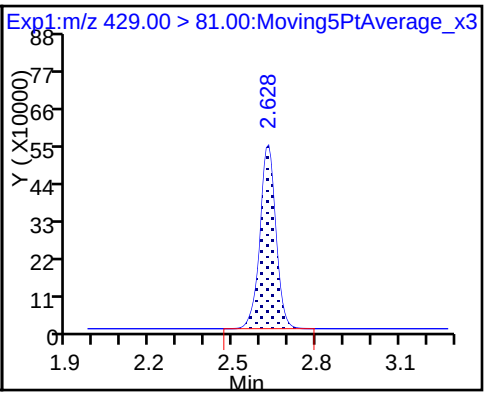
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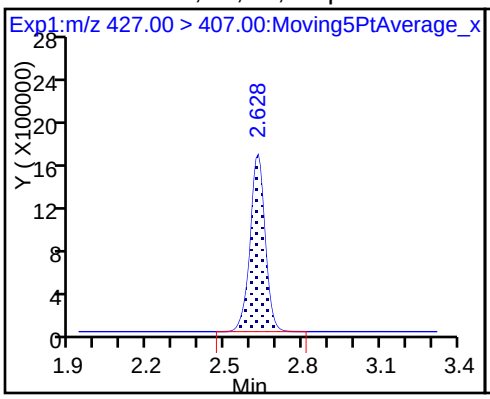
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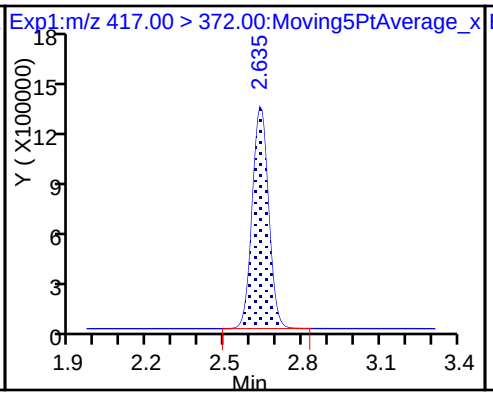
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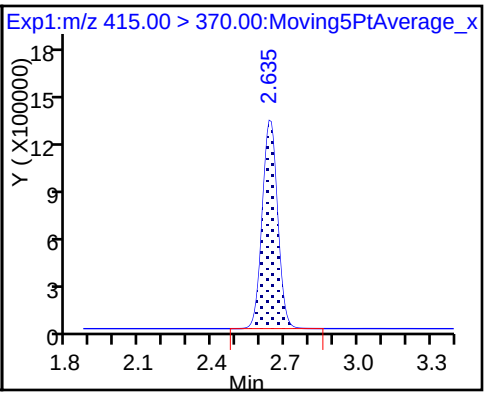
13 Sodium 1H,1H,2H,2H-perfluorooctane



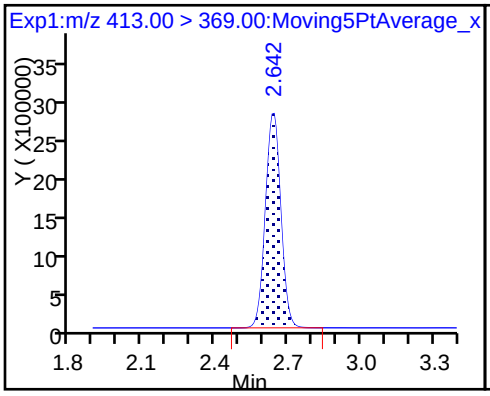
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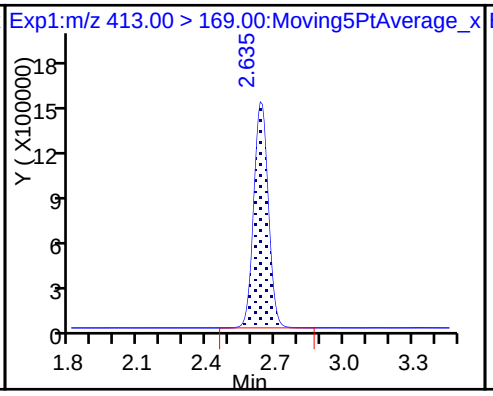
* 62 13C2-PFOA



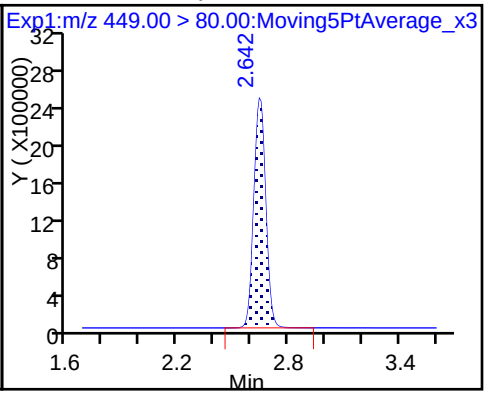
15 Perfluorooctanoic acid



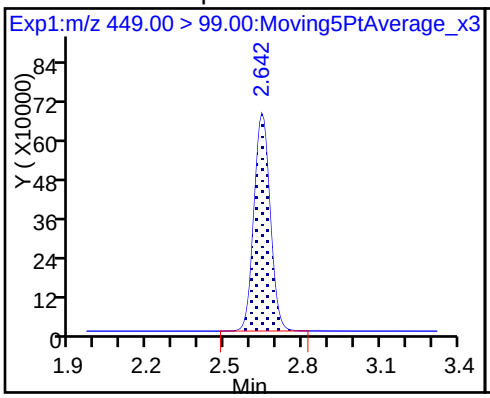
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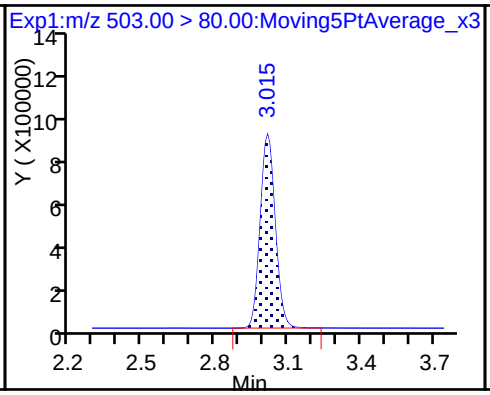
16 Perfluoroheptanesulfonic Acid



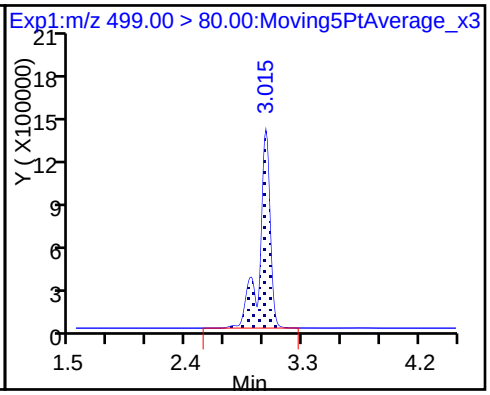
16 Perfluoroheptanesulfonic Acid



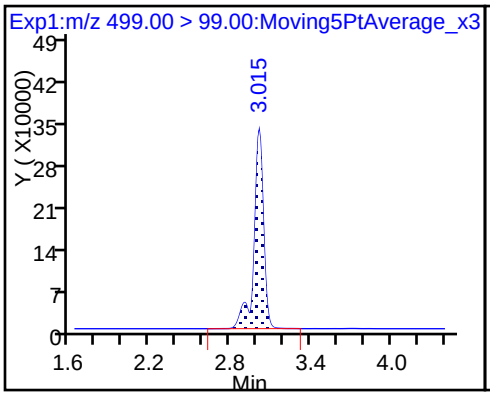
D 18 13C4 PFOS



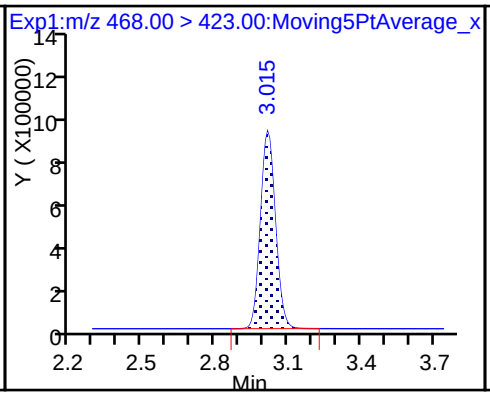
17 Perfluorooctane sulfonic acid



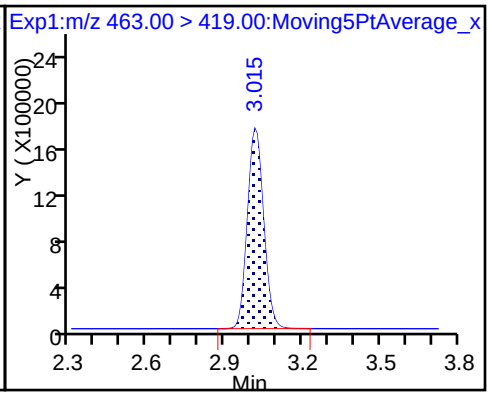
17 Perfluorooctane sulfonic acid



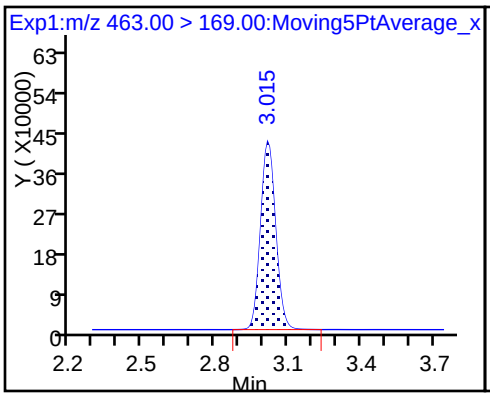
D 19 13C5 PFNA



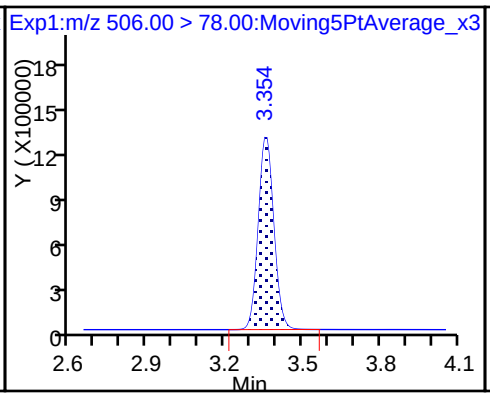
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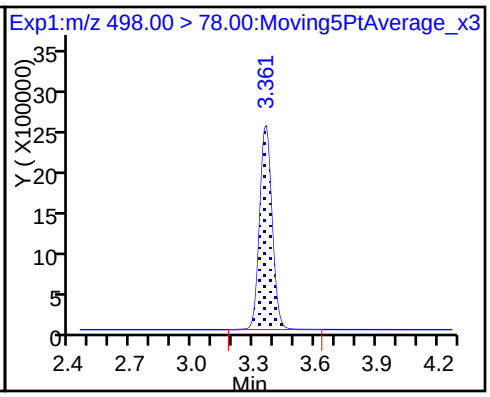
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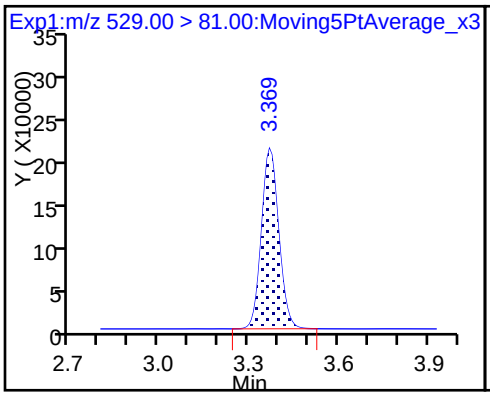
D 21 13C8 FOSA



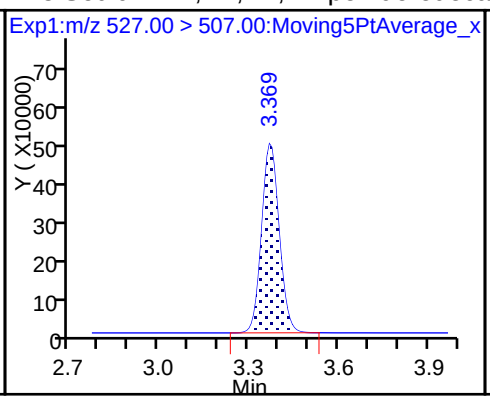
22 Perfluorooctane Sulfonamide



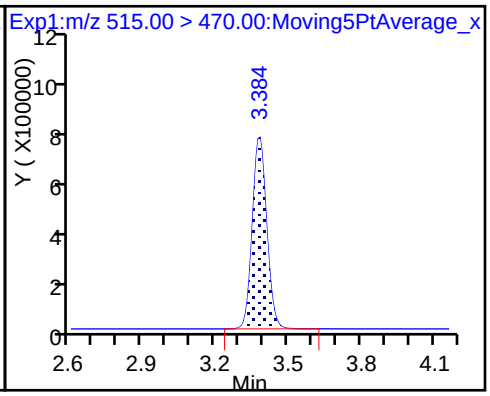
D 26 M2-8:2FTS



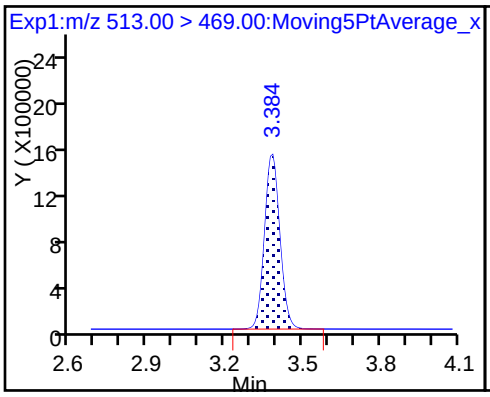
25 Sodium 1H,1H,2H,2H-perfluorodecane



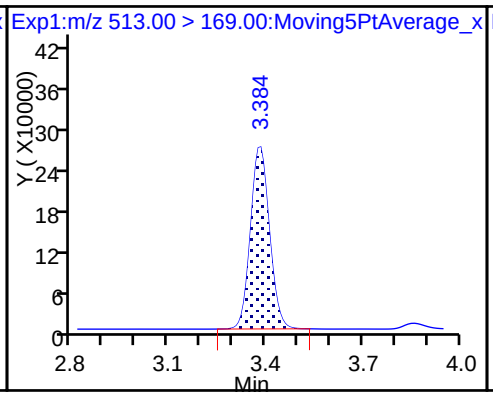
D 23 13C2 PFDA



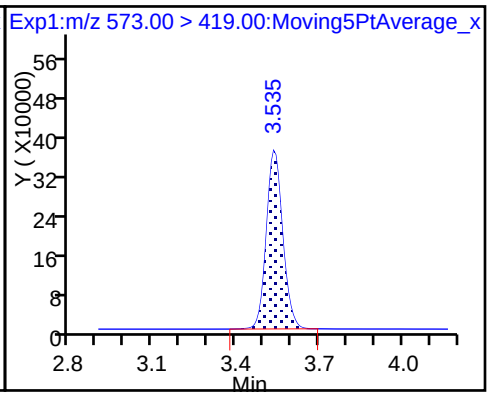
24 Perfluorodecanoic acid



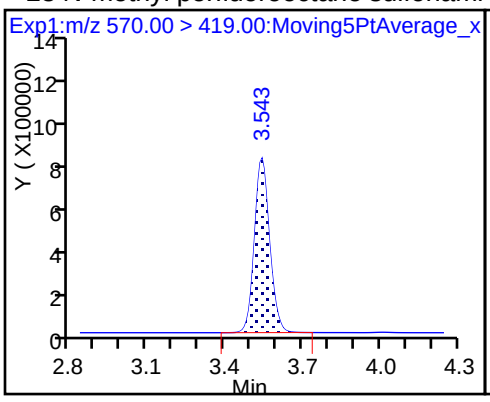
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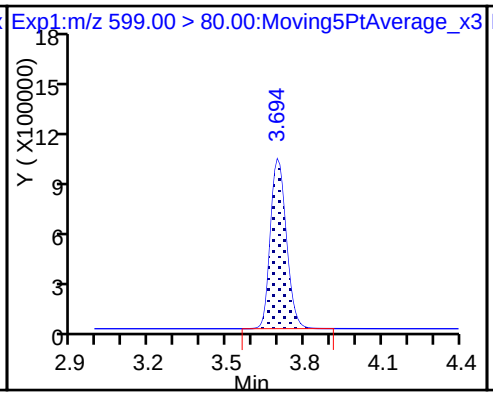
D 27 d3-NMeFOSAA



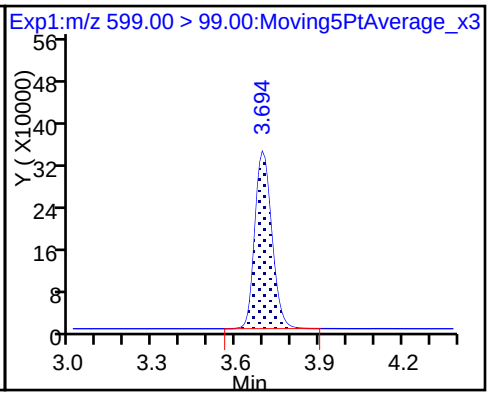
28 N-methyl perfluorooctane sulfonami



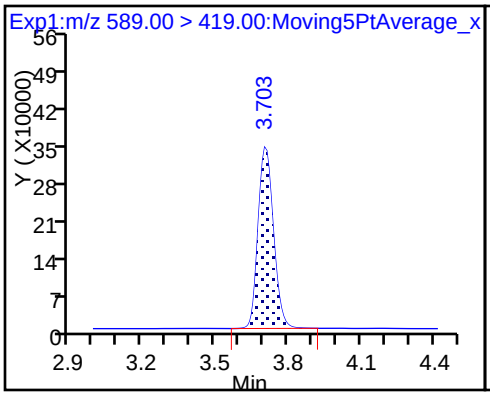
29 Perfluorodecane Sulfonic acid



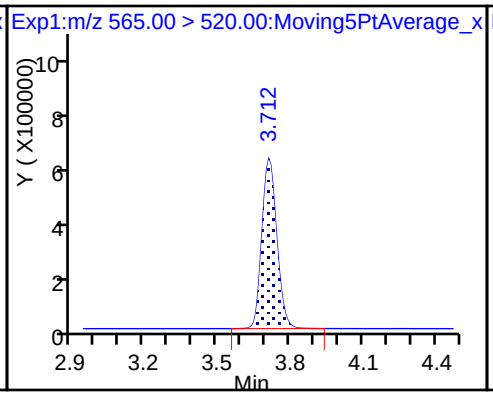
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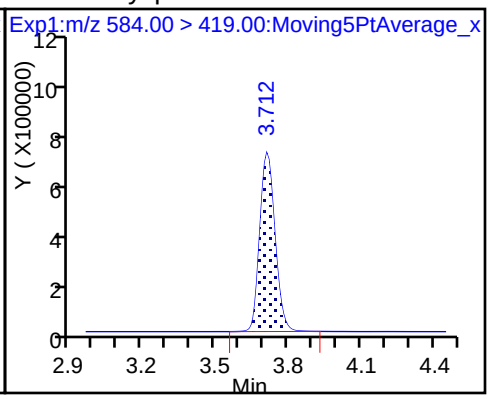
D 32 d5-NEtFOSAA



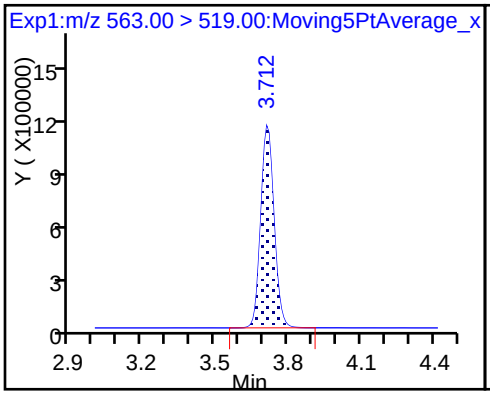
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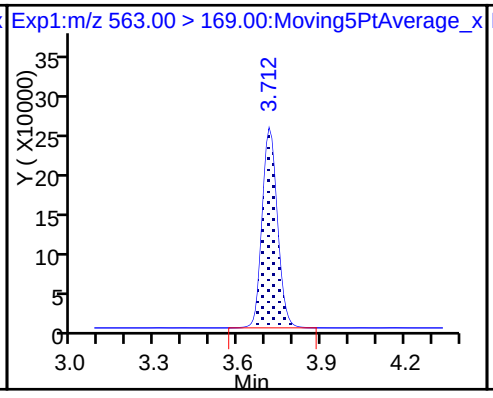
33 N-ethyl perfluorooctane sulfonamid



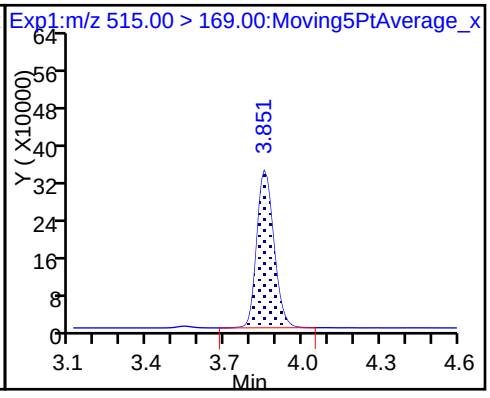
31 Perfluoroundecanoic acid



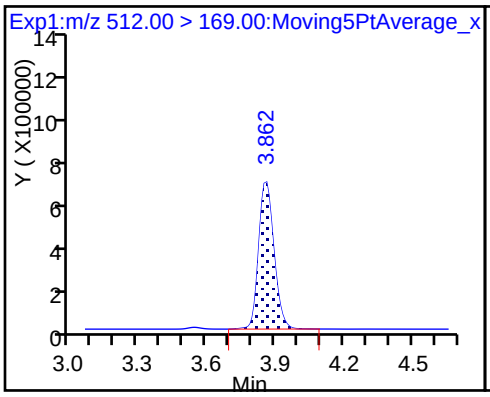
31 Perfluoroundecanoic acid



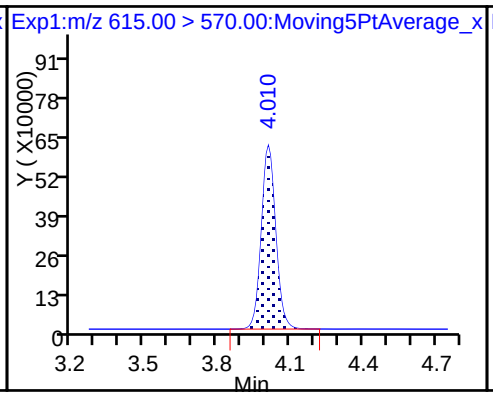
D 34 d-N-MeFOSA-M



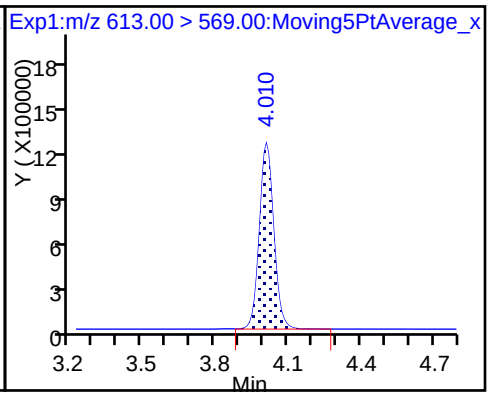
35 MeFOSA



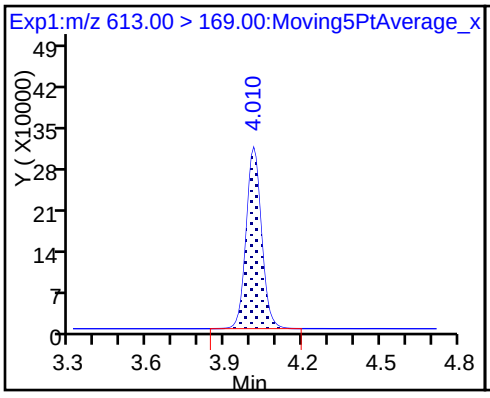
D 36 13C2 PFDoA



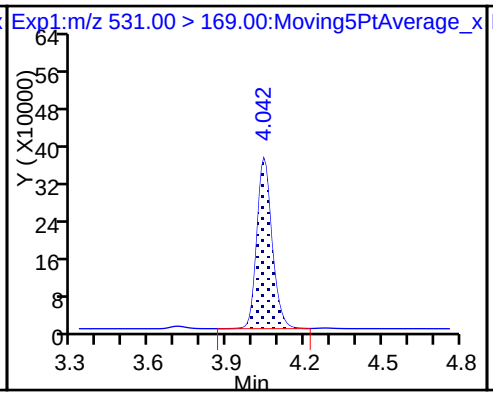
37 Perfluorododecanoic acid



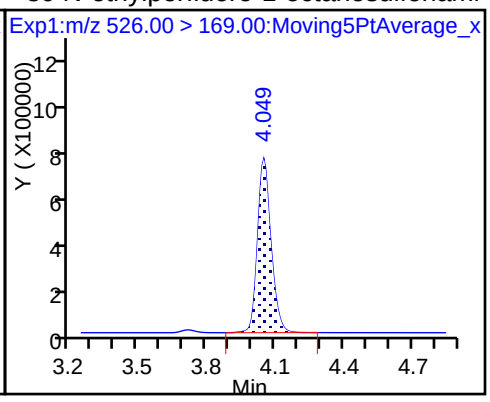
37 Perfluorododecanoic acid



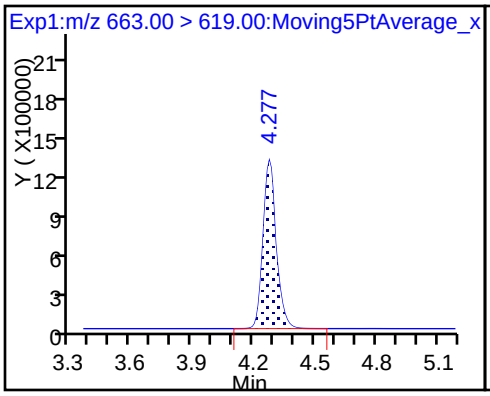
D 38 d-N-EtFOSA-M



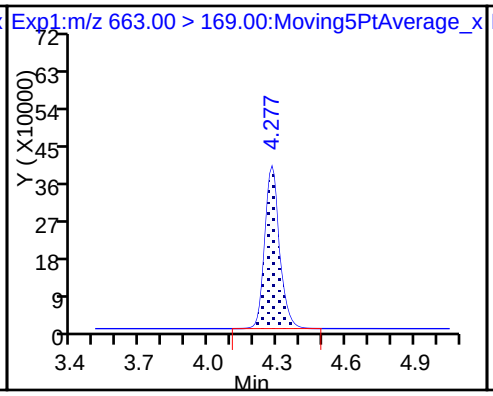
39 N-ethylperfluoro-1-octanesulfonami



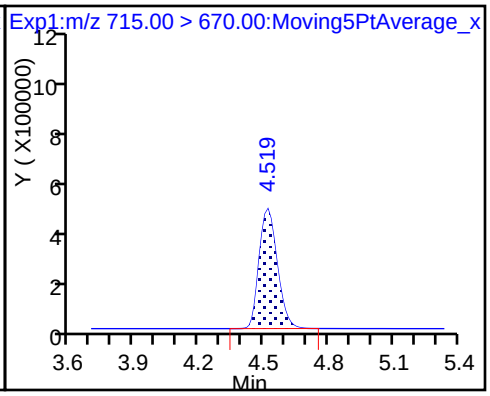
41 Perfluorotridecanoic acid



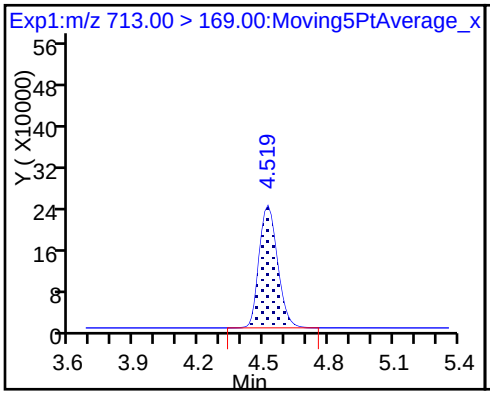
41 Perfluorotridecanoic acid



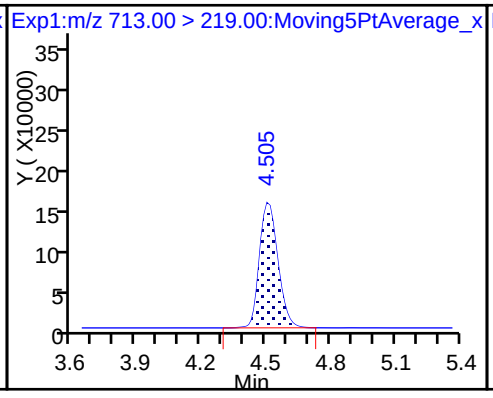
D 43 13C2-PFTeDA



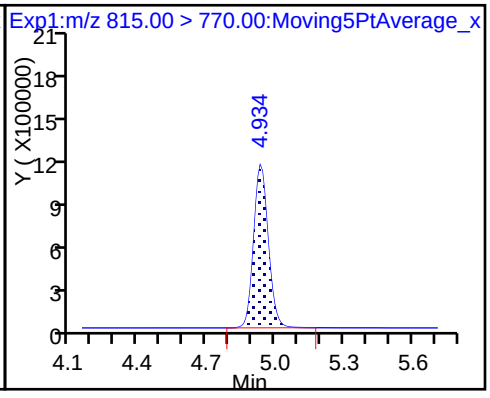
42 Perfluorotetradecanoic acid



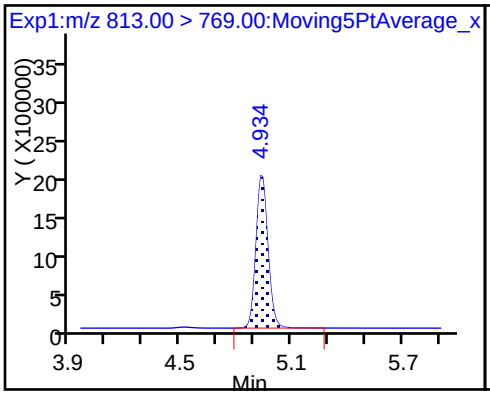
42 Perfluorotetradecanoic acid



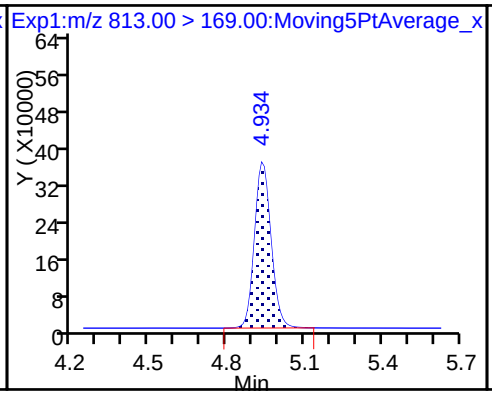
D 44 13C2-PFHxDA



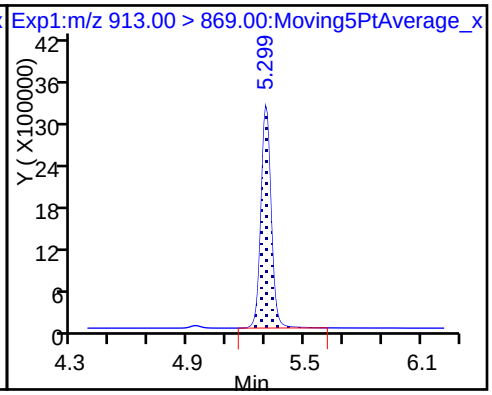
45 Perfluorohexadecanoic acid



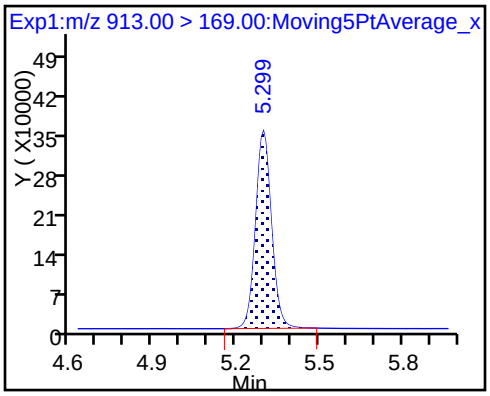
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_008.d
Lims ID: IC L7 Full
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 14-Dec-2017 16:39:54 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L7-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub19

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 09:54:21 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK021

First Level Reviewer: hannigana Date: 15-Dec-2017 08:15:10

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.407	1.406	0.001	0.532	7932108	2.52		101	22214	
2 Perfluorobutyric acid										
212.90 > 169.00	1.413	1.408	0.005	1.004	28700316	10.0		100	7022	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.661	1.656	0.005	1.000	20466520	9.89		98.9	31069	
D 3 13C5-PFPeA										
267.90 > 223.00	1.661	1.656	0.005	0.628	4652087	2.51		100	60107	
D 47 13C3-PFBS										
301.90 > 83.00	1.697	1.690	0.007	0.642	91436	2.30		98.8	3187	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.697	1.692	0.005	1.000	24976975	8.66		98.0	67186	
298.90 > 99.00	1.697	1.692	0.005	1.000	11301054		2.21(1.25-3.74)	98.0	51249	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.912	1.902	0.010	1.000	4831604	12.4		133	94310	
D 7 13C2 PFHxA										
315.00 > 270.00	1.943	1.938	0.005	0.735	4807490	2.48		99.2	39202	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.943	1.939	0.004	1.000	19276718	10.2		102	48838	
313.00 > 119.00	1.943	1.939	0.004	1.000	1840415		10.47(5.03-15.10)	102	45154	
D 9 13C4-PFHpA										
367.00 > 322.00	2.278	2.272	0.006	0.861	4496164	2.47		98.9	35796	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.278	2.273	0.005	1.000	17850833	9.58		95.8	28289	
363.00 > 169.00	2.278	2.273	0.005	1.000	7535257		2.37(1.13-3.40)	95.8	31478	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.291	2.285	0.006	1.000	21011008	8.62		94.7	30993	
399.00 > 99.00	2.291	2.285	0.006	1.000	7242568		2.90(1.50-4.49)	94.7	22480	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.291	2.286	0.005	0.866	5223265	2.31		97.5	29428	
D 12 M2-6:2FTS										
429.00 > 81.00	2.630	2.625	0.005	0.995	1972137	2.00		84.0	41573	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.637	2.625	0.012	1.003	12501676	9.57		101	128972	
D 14 13C4 PFOA										
417.00 > 372.00	2.644	2.637	0.007	1.000	5472310	2.49		99.6	51008	
* 62 13C2-PFOA										
415.00 > 370.00	2.644	2.638	0.006		5383119	2.50			44541	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.644	2.640	0.004	1.000	21425345	9.21		92.1	38357	
413.00 > 169.00	2.644	2.640	0.004	1.000	12019553		1.78(0.84-2.52)	92.1	48913	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.652	2.644	0.008	1.000	19516780	9.40		98.8	54772	
449.00 > 99.00	2.652	2.644	0.008	1.000	5725760		3.41(1.94-5.82)	98.8	50448	
D 18 13C4 PFOS										
503.00 > 80.00	3.016	3.014	0.002	1.141	3364334	2.36		98.6	18194	
D 19 13C5 PFNA										
468.00 > 423.00	3.016	3.015	0.001	1.141	3647795	2.51		100	42574	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.016	3.015	0.001	1.000	14315958	9.57		103	23303	
499.00 > 99.00	3.016	3.015	0.001	1.000	3181775		4.50(2.31-6.93)	103	24670	
20 Perfluorononanoic acid										
463.00 > 419.00	3.024	3.017	0.007	1.003	14382186	9.89		98.9	52211	
463.00 > 169.00	3.016	3.017	-0.001	1.000	3559742		4.04(1.90-5.69)	98.9	38884	
D 21 13C8 FOSA										
506.00 > 78.00	3.355	3.354	0.001	1.269	5007254	2.45		97.9	23800	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.362	3.356	0.006	1.002	18602053	9.82		98.2	67869	
D 26 M2-8:2FTS										
529.00 > 81.00	3.370	3.368	0.002	1.274	818951	2.50		104	15682	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.370	3.369	0.001	1.000	4005486	9.62		100	47143	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.385	3.379	0.006	1.000	11878885	10.4		104	54955	
513.00 > 169.00	3.385	3.379	0.006	1.000	2158690		5.50(2.36-7.09)	104	2074	
D 23 13C2 PFDA										
515.00 > 470.00	3.385	3.379	0.006	1.280	2962231	2.50		99.9	36821	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.536	3.535	0.001	1.337	1432256	2.53		101	19553	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.544	3.538	0.006	1.002	6408861	10.7		107	24085	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.696	3.692	0.004	1.000	7885511	9.43		97.8	53172	
599.00 > 99.00	3.696	3.692	0.004	1.000	2629472		3.00(1.39-4.16)	97.8	41528	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.704	3.704	0.0	1.401	1359649	2.41		96.5	4957	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.713	3.709	0.004	1.404	2250686	2.50		99.8	34833	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.713	3.710	0.003	1.002	5433878	10.4		104	24403	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.713	3.711	0.002	1.000	8421362	10.3		103	59781	
563.00 > 169.00	3.713	3.711	0.002	1.000	1849598		4.55(0.00-0.00)	103	34797	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.853	3.850	0.003	1.457	1576560	2.63		105	3965	
35 MeFOSA										
512.00 > 169.00	3.863	3.856	0.007	1.003	6390964	10.1		101	4389	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.011	4.008	0.003	1.000	9684102	10.9		109	42180	
613.00 > 169.00	4.011	4.008	0.003	1.000	2255977		4.29(2.13-6.40)	109	29009	
D 36 13C2 PFDoA										
615.00 > 570.00	4.011	4.008	0.003	1.517	2288557	2.37		95.0	37072	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.043	4.039	0.004	1.529	1435413	2.59		103	2171	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.051	4.047	0.004	1.002	6126410	10.3		103	3770	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.278	4.275	0.003	1.000	10708089	10.6		106	73244	
663.00 > 169.00	4.278	4.275	0.003	1.000	3521626		3.04(1.25-3.76)	106	59617	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.526	4.519	0.007	1.000	2553613	9.71		97.1	35959	
713.00 > 219.00	4.513	4.519	-0.006	0.997	1696325		1.51(0.71-2.13)	97.1	28769	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.526	4.519	0.007	1.712	2630360	2.52		101	21134	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.939	4.935	0.004	1.000	15600811	9.86		98.6	9862	
813.00 > 169.00	4.939	4.935	0.004	1.000	2914074		5.35(2.86-8.58)	98.6	14404	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.939	4.935	0.004	1.868	4489310	2.34		93.7	18473	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.309	5.299	0.010	1.000	20463340	10.1		101	3420	
913.00 > 169.00	5.302	5.299	0.003	0.999	2573399		7.95(0.00-0.00)	101	3303	

Reagents:

LCPFC_LL7_00002 Amount Added: 1.00 Units: mL

Report Date: 15-Dec-2017 09:54:23 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_008.d

Injection Date: 14-Dec-2017 16:39:54 Instrument ID: A8_N

Lims ID: IC L7 Full

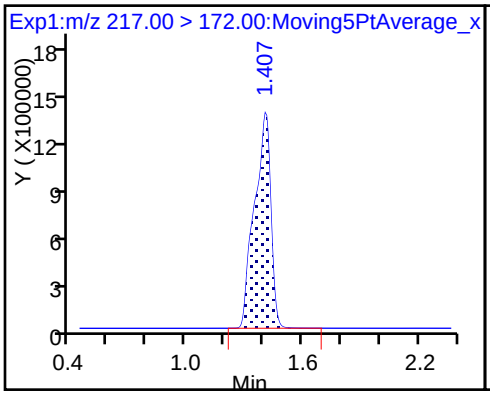
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 16 Worklist Smp#: 8

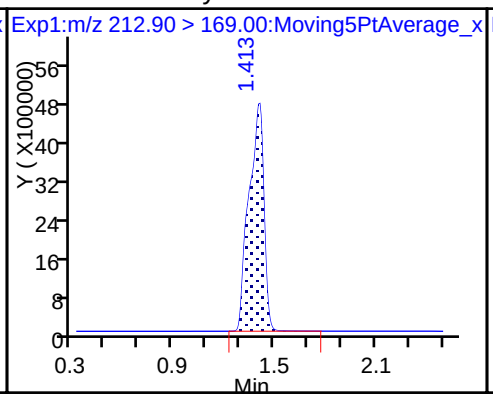
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

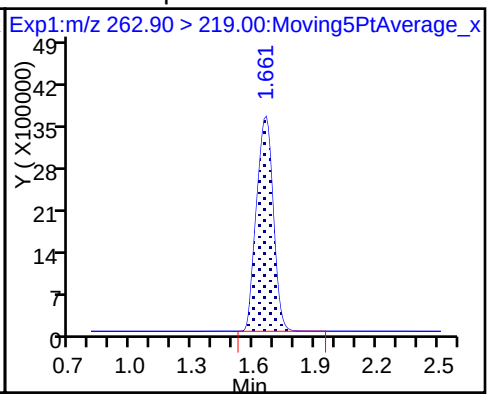
D 1 13C4 PFBA



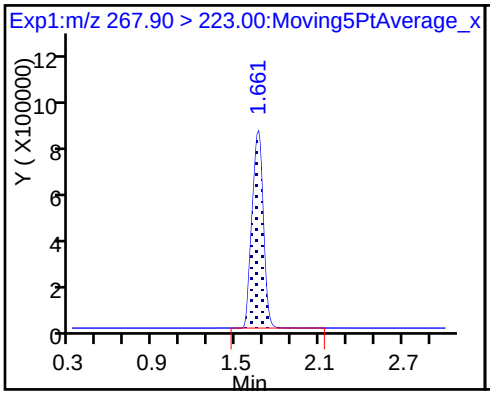
2 Perfluorobutyric acid



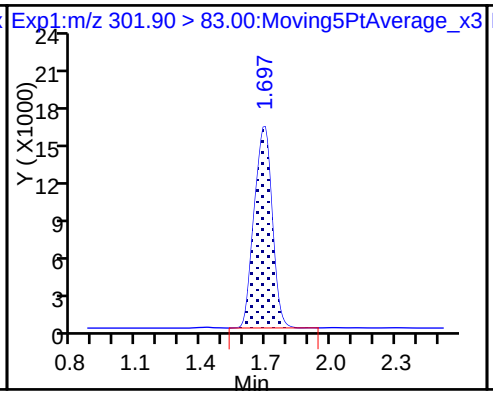
4 Perfluoropentanoic acid



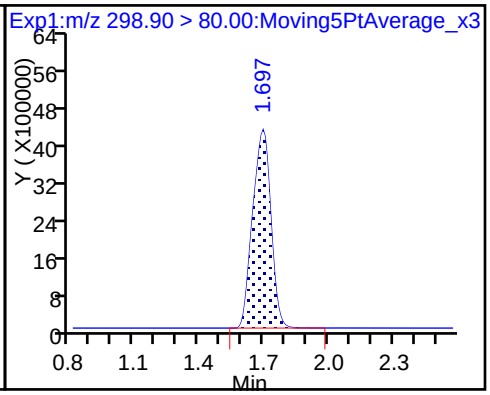
D 3 13C5-PFPeA



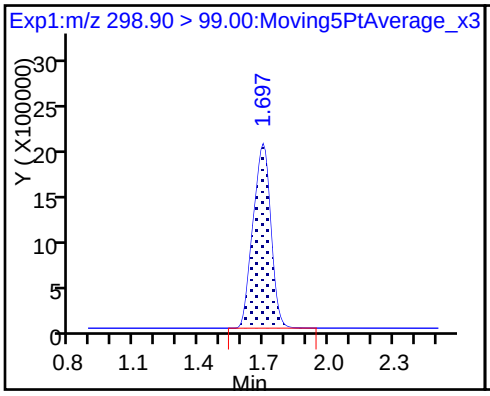
D 47 13C3-PFBS



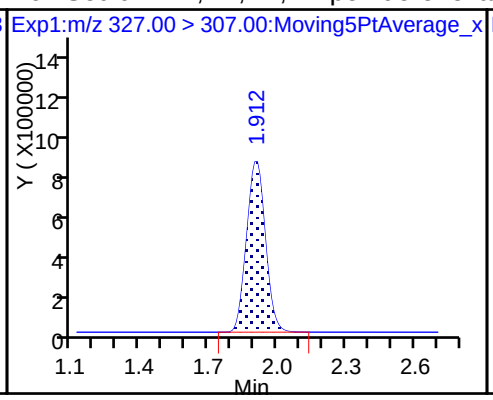
5 Perfluorobutanesulfonic acid



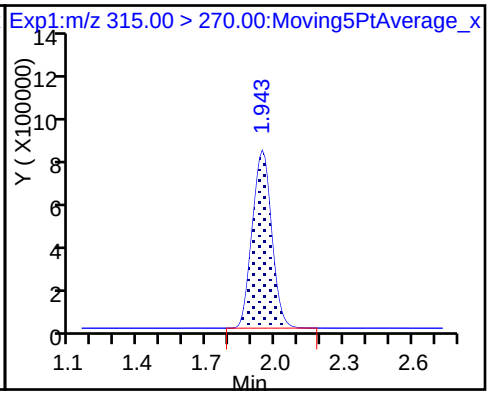
5 Perfluorobutanesulfonic acid



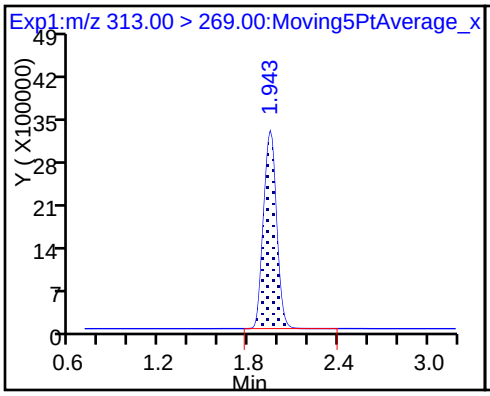
61 Sodium 1H,1H,2H,2H-perfluorohexa



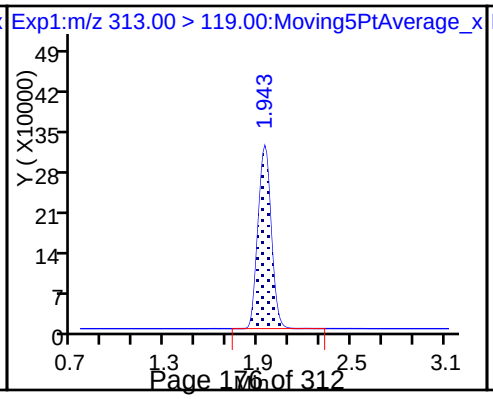
D 7 13C2 PFHxA



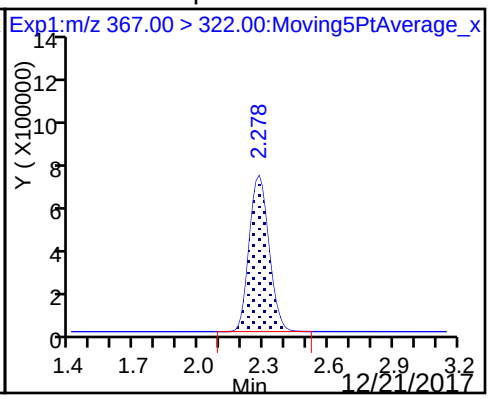
6 Perfluorohexanoic acid



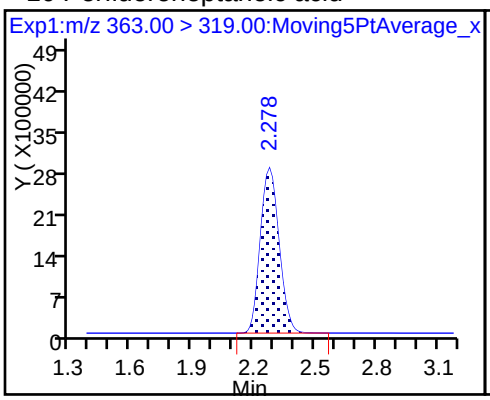
6 Perfluorohexanoic acid



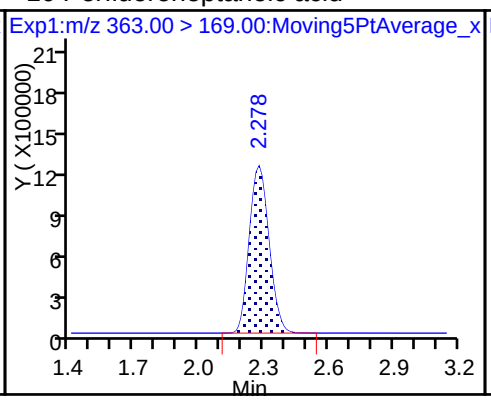
D 9 13C4-PFHpA



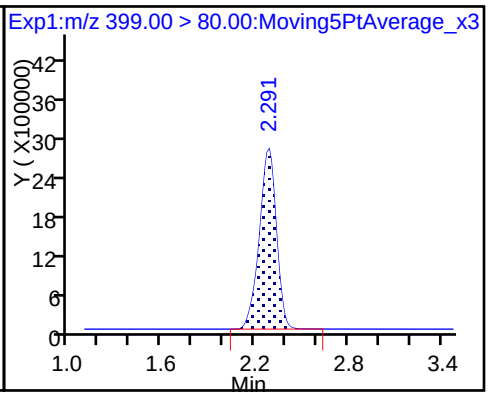
10 Perfluoroheptanoic acid



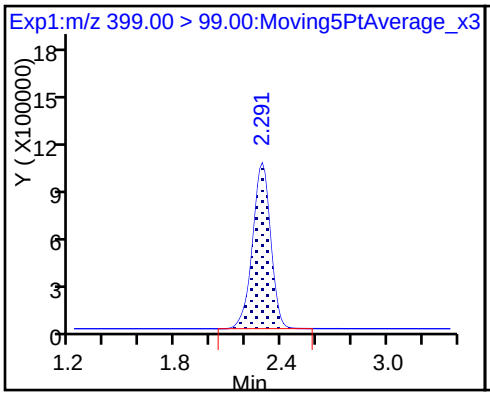
10 Perfluoroheptanoic acid



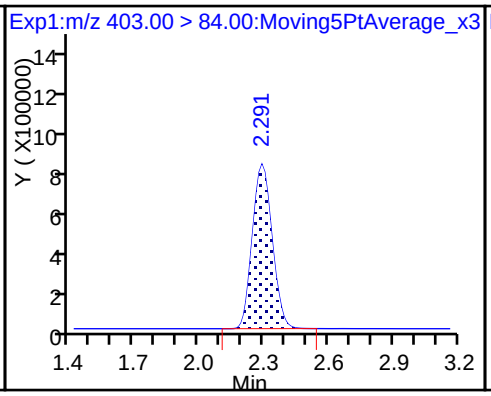
8 Perfluorohexanesulfonic acid



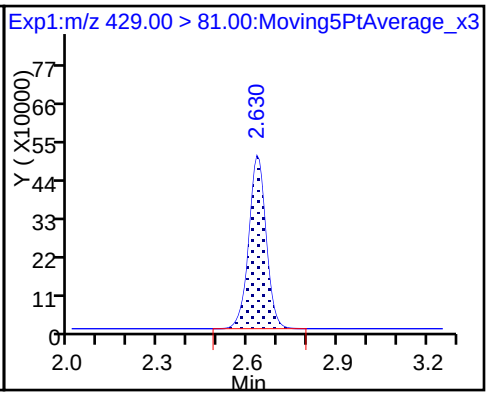
8 Perfluorohexanesulfonic acid



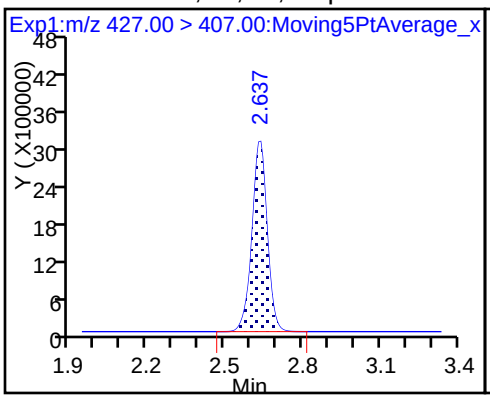
D 11 18O2 PFHxS



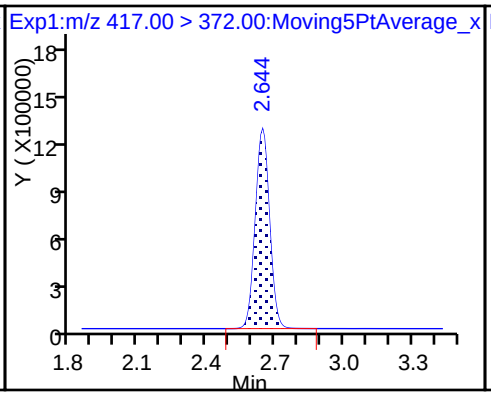
D 12 M2-6:2FTS



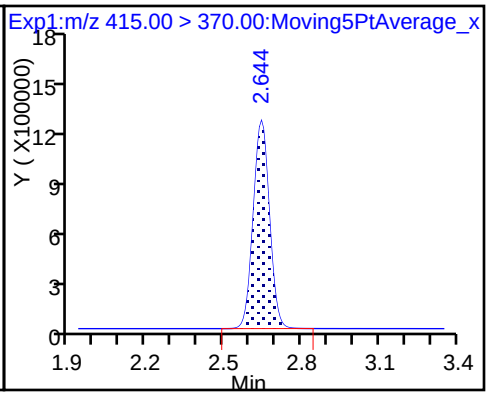
13 Sodium 1H,1H,2H,2H-perfluorooctane



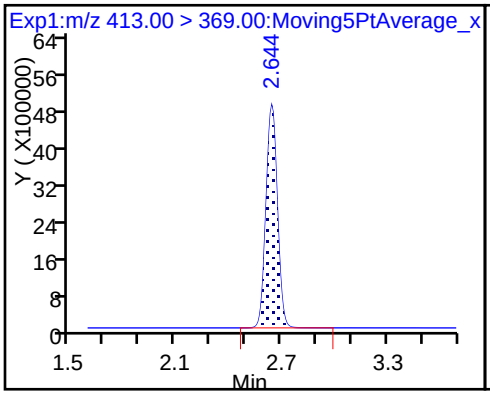
D 14 13C4 PFOA



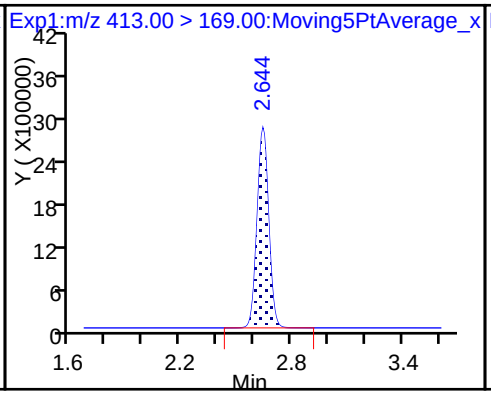
* 62 13C2-PFOA



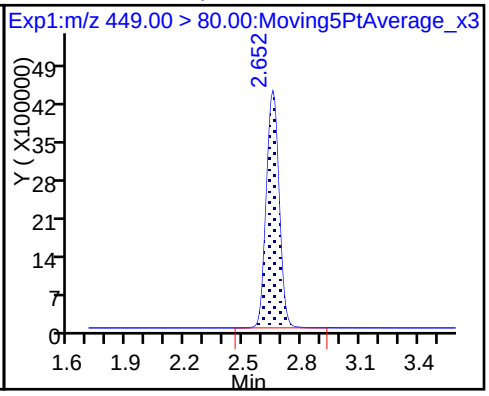
15 Perfluorooctanoic acid



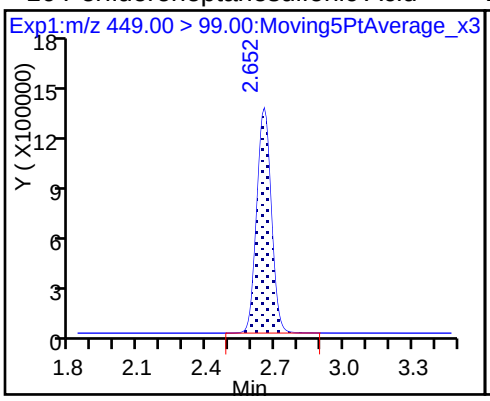
15 Perfluorooctanoic acid



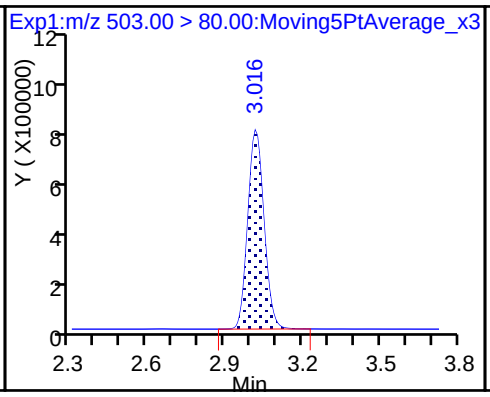
16 Perfluoroheptanesulfonic Acid



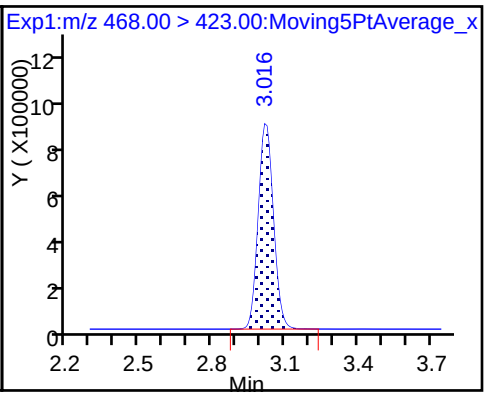
16 Perfluoroheptanesulfonic Acid



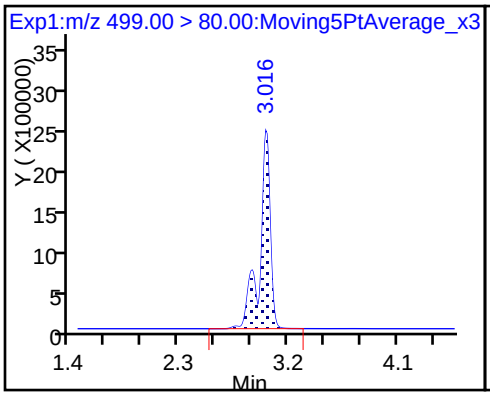
D 18 13C4 PFOS



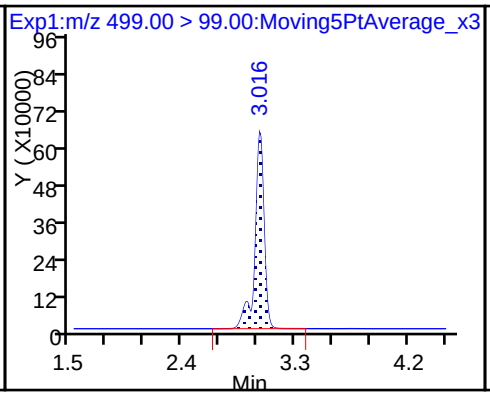
D 19 13C5 PFNA



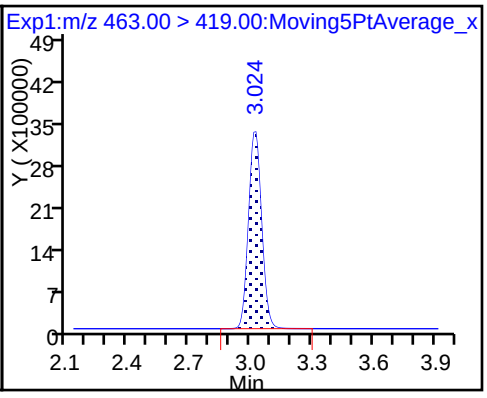
17 Perfluorooctane sulfonic acid



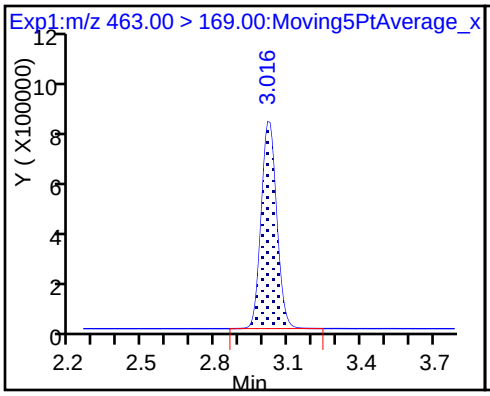
17 Perfluorooctane sulfonic acid



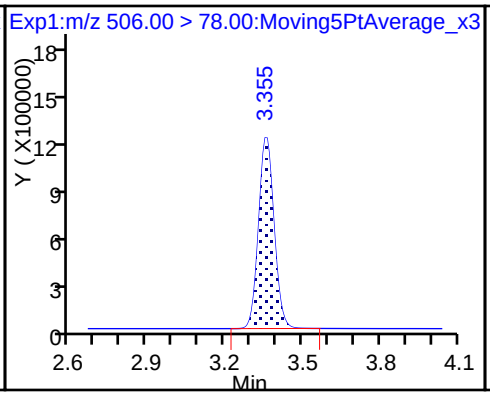
20 Perfluorononanoic acid



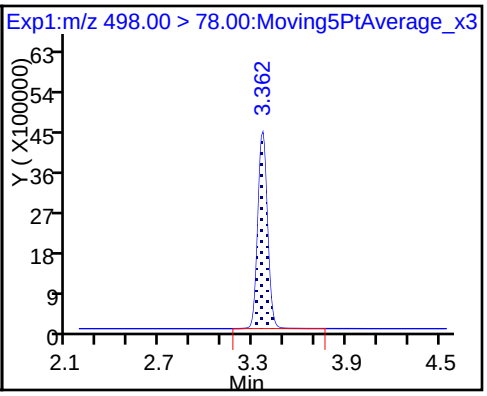
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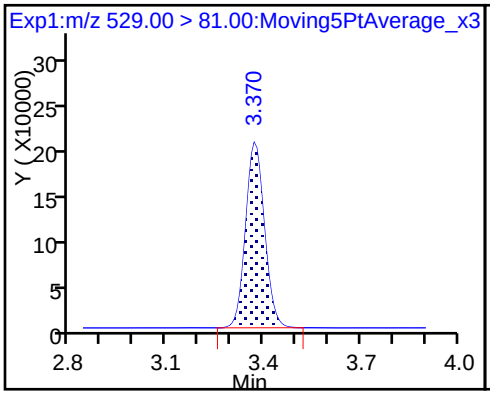
D 21 13C8 FOSA



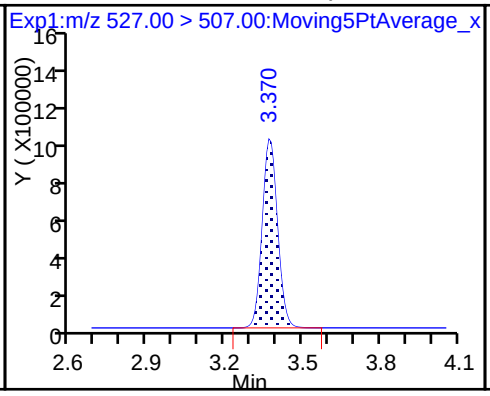
22 Perfluorooctane Sulfonamide



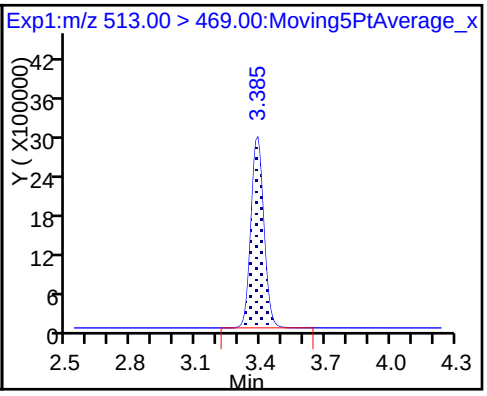
D 26 M2-8:2FTS



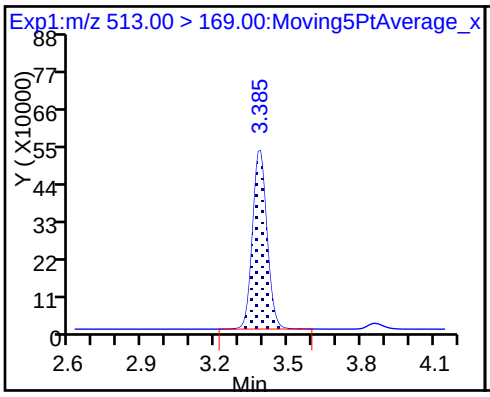
25 Sodium 1H,1H,2H,2H-perfluorodecan



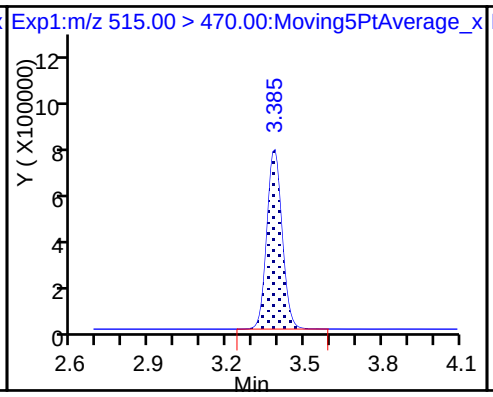
24 Perfluorodecanoic acid



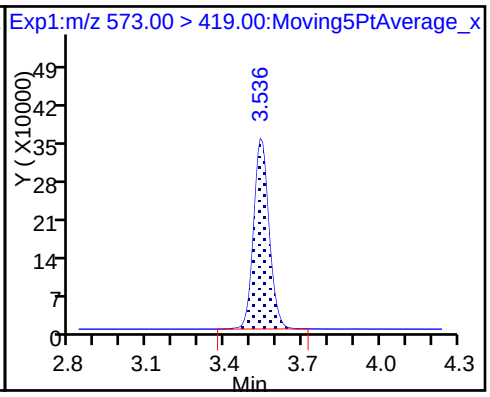
24 Perfluorodecanoic acid



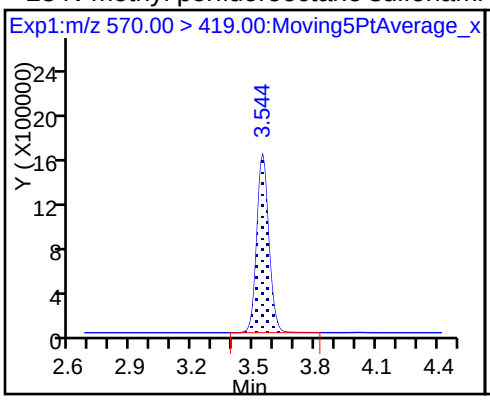
D 23 13C2 PFDA



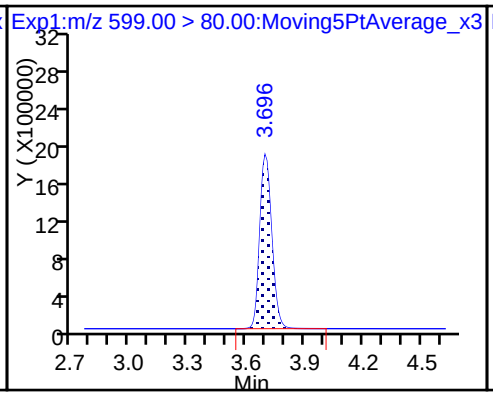
D 27 d3-NMeFOSAA



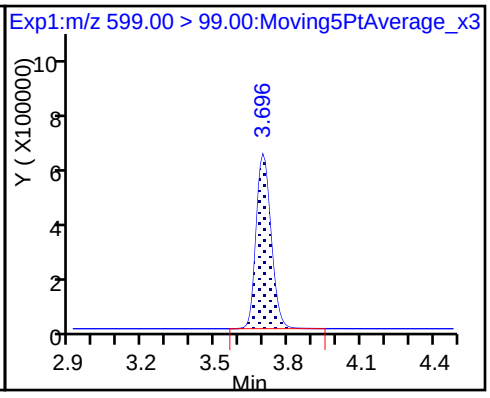
28 N-methyl perfluorooctane sulfonami



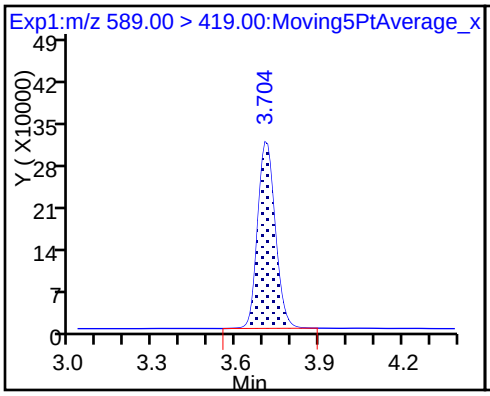
29 Perfluorodecane Sulfonic acid



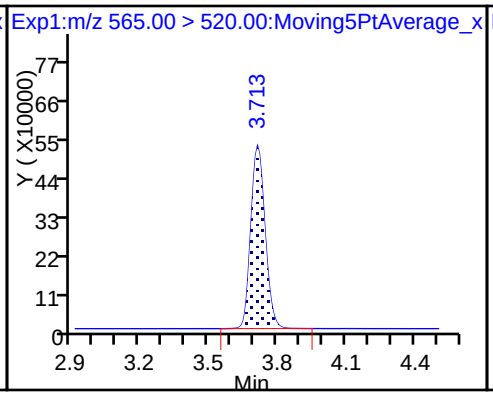
29 Perfluorodecane Sulfonic acid



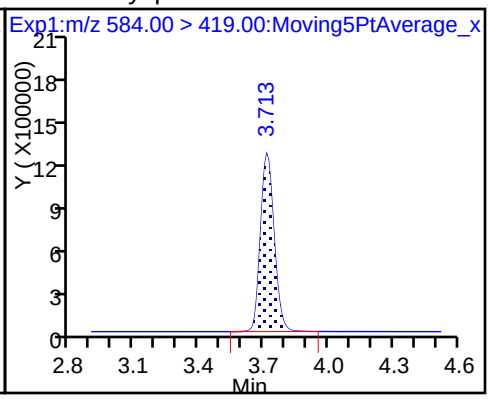
D 32 d5-NEtFOSAA



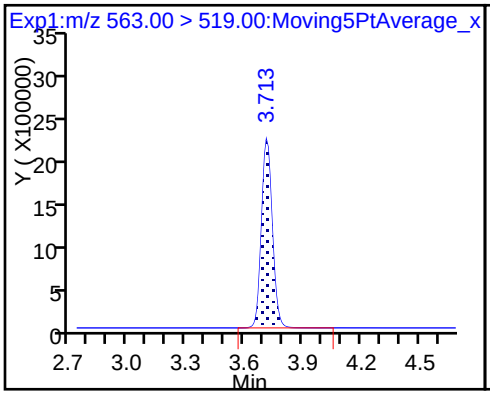
D 30 13C2 PFUnA



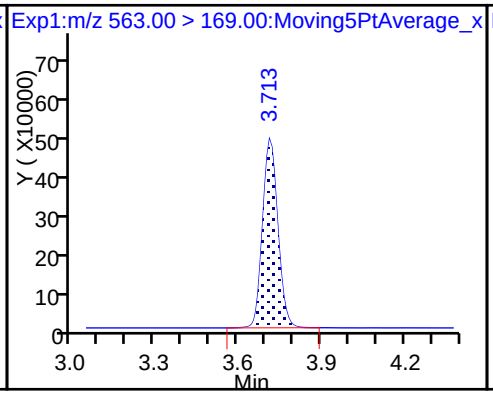
33 N-ethyl perfluorooctane sulfonamid



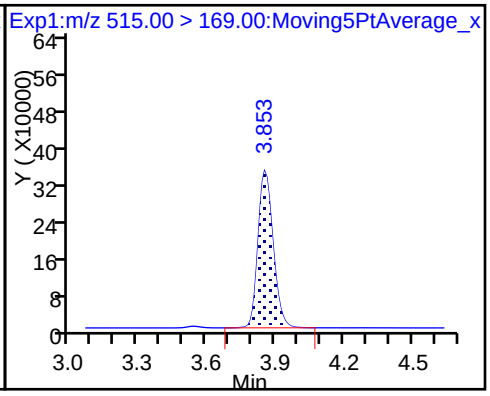
31 Perfluoroundecanoic acid



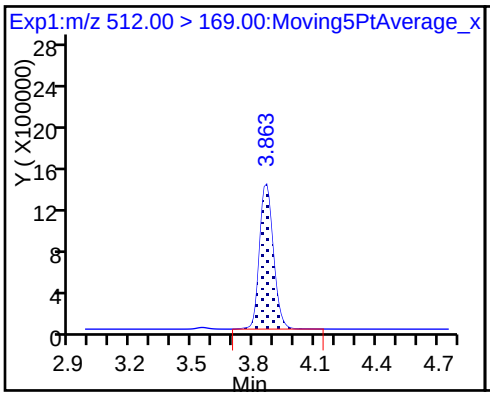
31 Perfluoroundecanoic acid



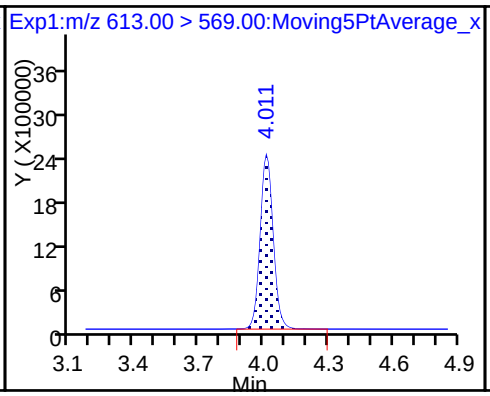
D 34 d-N-MeFOSA-M



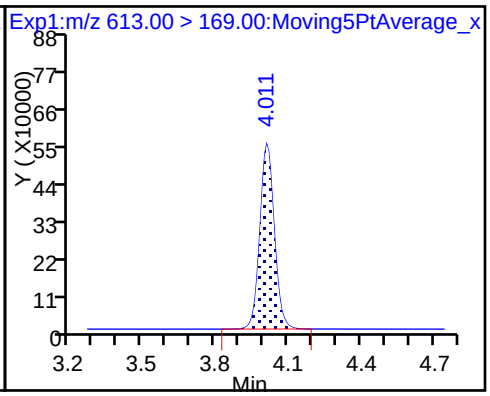
35 MeFOSA



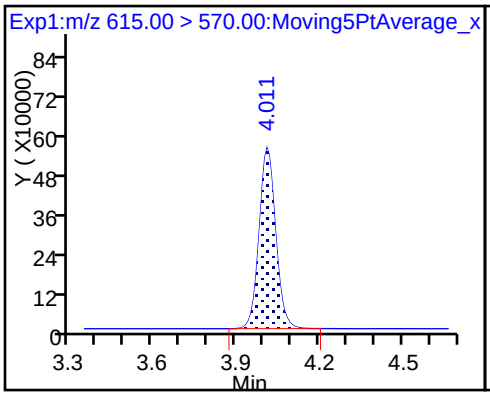
37 Perfluorododecanoic acid



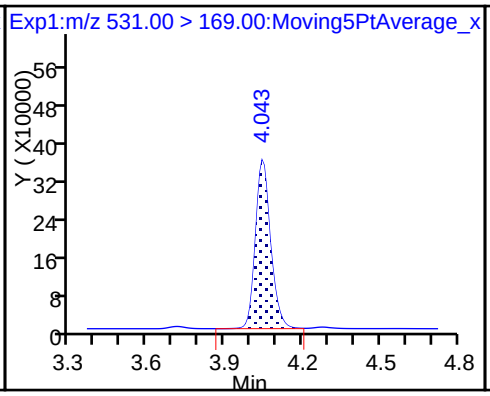
37 Perfluorododecanoic acid



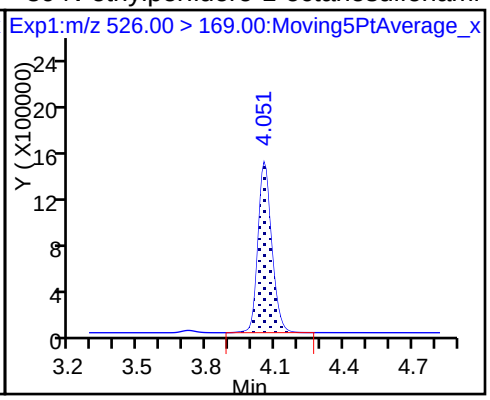
D 36 13C2 PFDoA



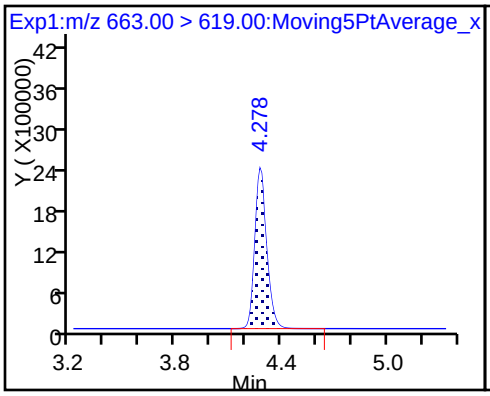
D 38 d-N-EtFOSA-M



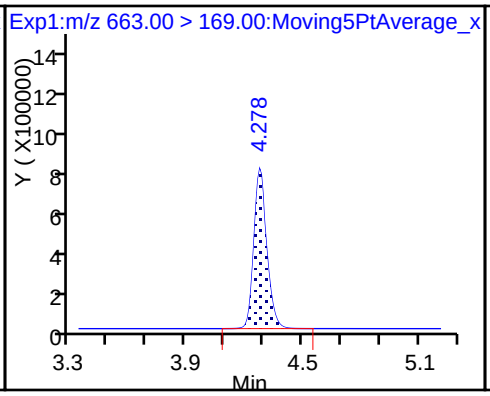
39 N-ethylperfluoro-1-octanesulfonami



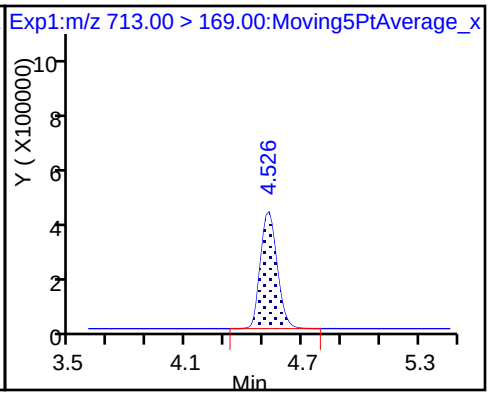
41 Perfluorotridecanoic acid



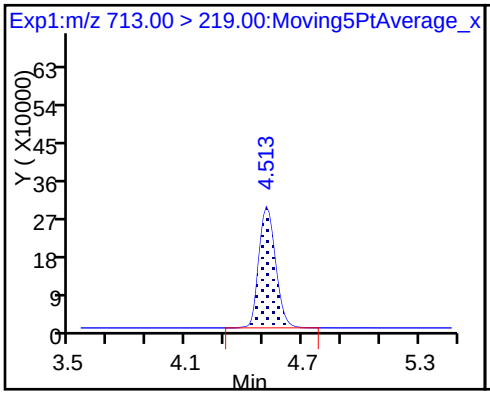
41 Perfluorotridecanoic acid



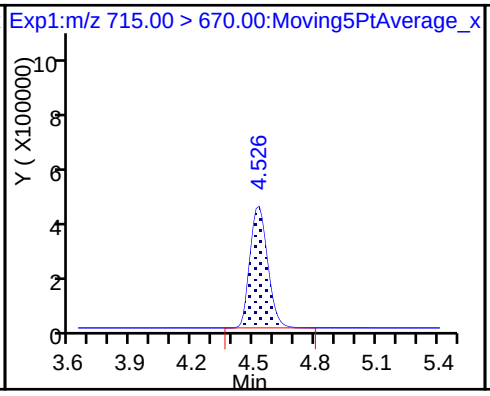
42 Perfluorotetradecanoic acid



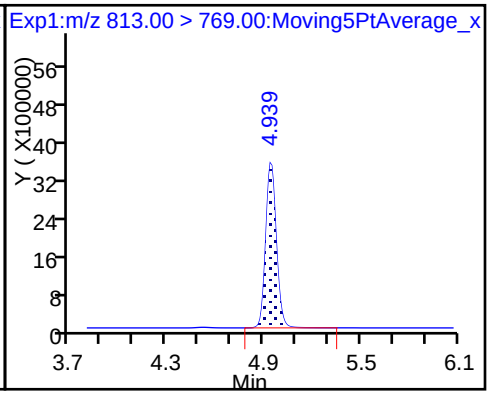
42 Perfluorotetradecanoic acid



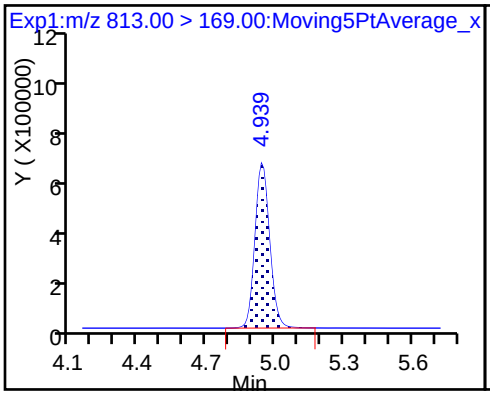
D 43 13C2-PFTeDA



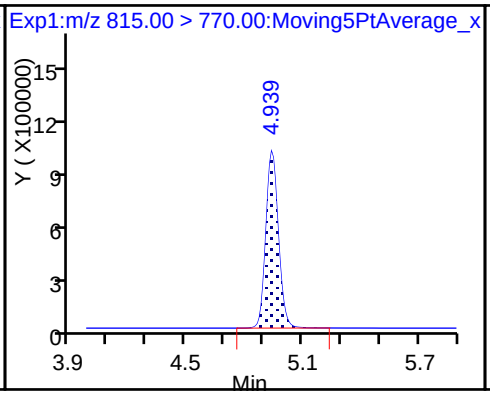
45 Perfluorohexadecanoic acid



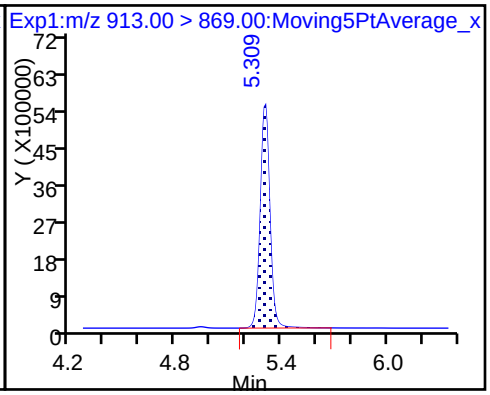
45 Perfluorohexadecanoic acid



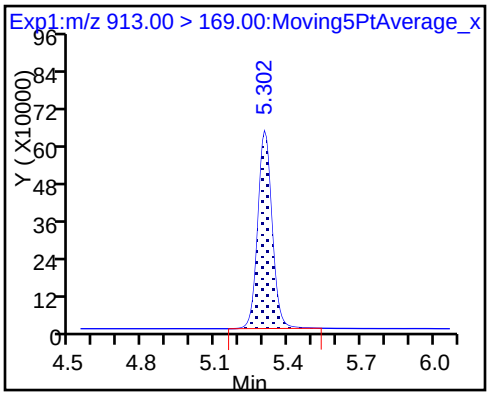
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_009.d
Lims ID: IC L8 Full
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 14-Dec-2017 16:47:46 ALS Bottle#: 17 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L8-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub19

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 09:54:26 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK021

First Level Reviewer: phomsophat Date: 14-Dec-2017 19:12:09

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.402	1.406	-0.004	0.532	7576680	2.65		106	22500	
2 Perfluorobutyric acid										
212.90 > 169.00	1.408	1.408	0.0	1.004	49420094	18.1		90.4	10280	
D 3 13C5-PFPeA										
267.90 > 223.00	1.652	1.656	-0.004	0.627	4492210	2.67		107	63235	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.652	1.656	-0.004	1.000	35298554	17.7		88.3	43900	
D 47 13C3-PFBS										
301.90 > 83.00	1.688	1.690	-0.002	0.641	92842	2.57		110	4129	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.688	1.692	-0.004	1.000	41750244	14.3		80.6	77607	
298.90 > 99.00	1.688	1.692	-0.004	1.000	20645550		2.02(1.25-3.74)	80.6	93240	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.902	1.902	0.0	1.000	9085019	36.6		196	121742	
D 7 13C2 PFHxA										
315.00 > 270.00	1.933	1.938	-0.005	0.733	4721402	2.68		107	44443	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.933	1.939	-0.006	1.000	34026563	18.3		91.3	69678	
313.00 > 119.00	1.933	1.939	-0.006	1.000	3439397		9.89(5.03-15.10)	91.3	52203	
D 9 13C4-PFHpA										
367.00 > 322.00	2.265	2.272	-0.007	0.859	4292178	2.60		104	28246	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.265	2.273	-0.008	1.000	32023056	18.0		90.0	42961	
363.00 > 169.00	2.265	2.273	-0.008	1.000	13649857		2.35(1.13-3.40)	90.0	43755	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.278	2.285	-0.007	1.000	36510815	15.6		85.9	31321	
399.00 > 99.00	2.278	2.285	-0.007	1.000	13515753		2.70(1.50-4.49)	85.9	25832	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.278	2.286	-0.008	0.864	5004021	2.43		103	29816	
D 12 M2-6:2FTS										
429.00 > 81.00	2.621	2.625	-0.004	0.995	1261296	1.41		59.2	35948	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.621	2.625	-0.004	1.000	15935419	19.1		101	107013	
D 14 13C4 PFOA										
417.00 > 372.00	2.635	2.637	-0.002	1.000	4682422	2.35		93.9	36229	
* 62 13C2-PFOA										
415.00 > 370.00	2.635	2.638	-0.003		4887373	2.50			38172	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.635	2.640	-0.005	1.000	35409971	17.8		88.9	44570	
413.00 > 169.00	2.635	2.640	-0.005	1.000	21023060		1.68(0.84-2.52)	88.9	54501	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.642	2.644	-0.002	1.000	32947015	17.0		89.0	86332	
449.00 > 99.00	2.642	2.644	-0.002	1.000	10678132		3.09(1.94-5.82)	89.0	48110	
D 18 13C4 PFOS										
503.00 > 80.00	3.014	3.014	0.0	1.144	3149884	2.43		102	15750	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.014	3.015	-0.001	1.000	25482673	18.2		98.0	23212	
499.00 > 99.00	3.014	3.015	-0.001	1.000	5862733		4.35(2.31-6.93)	98.0	26688	
D 19 13C5 PFNA										
468.00 > 423.00	3.014	3.015	-0.001	1.144	3386319	2.56		103	38624	
20 Perfluorononanoic acid										
463.00 > 419.00	3.014	3.017	-0.003	1.000	24313505	18.0		90.1	49667	
463.00 > 169.00	3.014	3.017	-0.003	1.000	6790380		3.58(1.90-5.69)	90.1	42336	
D 21 13C8 FOSA										
506.00 > 78.00	3.353	3.354	-0.001	1.272	4829966	2.60		104	22985	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.353	3.356	-0.003	1.000	30528810	16.7		83.5	74596	
D 26 M2-8:2FTS										
529.00 > 81.00	3.361	3.368	-0.007	1.275	816414	2.74		115	18128	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.368	3.369	-0.001	1.002	7656436	18.5		96.3	62282	
D 23 13C2 PFDA										
515.00 > 470.00	3.376	3.379	-0.003	1.281	2949487	2.74		110	36614	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.376	3.379	-0.003	1.000	20700325	18.2		90.8	92858	
513.00 > 169.00	3.376	3.379	-0.003	1.000	4126611		5.02(2.36-7.09)	90.8	1928	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.535	3.535	0.0	1.341	1436387	2.80		112	19413	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.535	3.538	-0.003	1.000	11459094	19.1		95.5	31804	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.685	3.692	-0.007	1.000	14469714	18.5		95.9	51424	
599.00 > 99.00	3.685	3.692	-0.007	1.000	4901276		2.95(1.39-4.16)	95.9	33148	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.702	3.704	-0.002	1.405	1266524	2.48		99.0	4918	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.702	3.709	-0.007	1.405	2097264	2.56		102	20332	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.711	3.710	0.001	1.002	10058695	20.6		103	36064	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.711	3.711	0.0	1.002	14673943	19.3		96.4	59521	
563.00 > 169.00	3.711	3.711	0.0	1.002	3420905		4.29(0.00-0.00)	96.4	59304	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.851	3.850	0.001	1.461	1612541	2.96		118	4832	
35 MeFOSA										
512.00 > 169.00	3.851	3.856	-0.005	1.000	11928602	18.4		92.2	4273	
D 36 13C2 PFDoA										
615.00 > 570.00	4.001	4.008	-0.007	1.518	2218719	2.54		101	33467	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.001	4.008	-0.007	1.000	17150579	19.8		99.2	123268	
613.00 > 169.00	4.001	4.008	-0.007	1.000	4403492		3.89(2.13-6.40)	99.2	44186	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.032	4.039	-0.007	1.530	1397810	2.77		111	1568	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.040	4.047	-0.007	1.002	11827494	20.5		102	4077	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.266	4.275	-0.009	1.000	18102371	18.5		92.4	113781	
663.00 > 169.00	4.266	4.275	-0.009	1.000	6075985		2.98(1.25-3.76)	92.4	75851	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.517	4.519	-0.002	1.714	2324795	2.45		98.0	19582	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.517	4.519	-0.002	1.000	4839276	20.8		104	33905	
713.00 > 219.00	4.504	4.519	-0.015	0.997	3374353		1.43(0.71-2.13)	104	34112	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.932	4.935	-0.003	1.872	4484274	2.58		103	15251	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.932	4.935	-0.003	1.000	26731483	16.9		84.7	13633	
813.00 > 169.00	4.932	4.935	-0.003	1.000	5459208		4.90(2.86-8.58)	84.7	21640	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.297	5.299	-0.002	1.000	33026158	16.3		81.6	4656	
913.00 > 169.00	5.297	5.299	-0.002	1.000	4801792		6.88(0.00-0.00)	81.6	3931	

Reagents:

LCPFC_LL8_00001 Amount Added: 1.00 Units: mL

Report Date: 15-Dec-2017 09:54:27 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_009.d

Injection Date: 14-Dec-2017 16:47:46 Instrument ID: A8_N

Lims ID: IC L8 Full

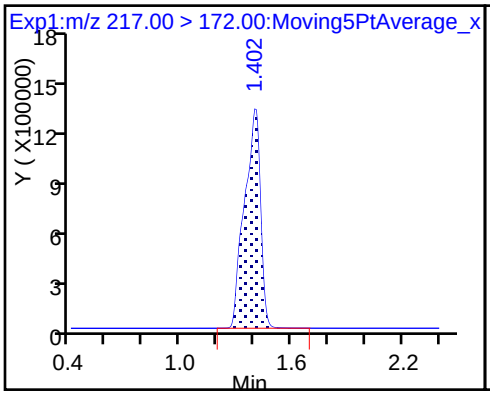
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Operator ID: SACINSTLCMS01 ALS Bottle#: 17 Worklist Smp#: 9

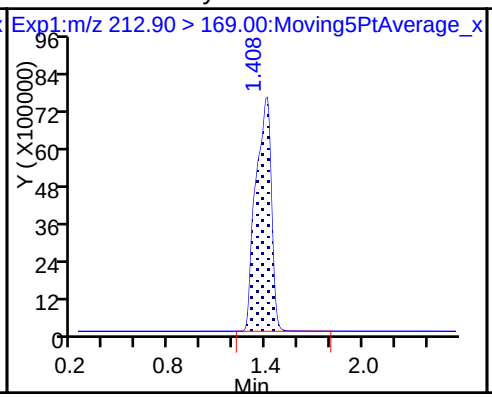
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

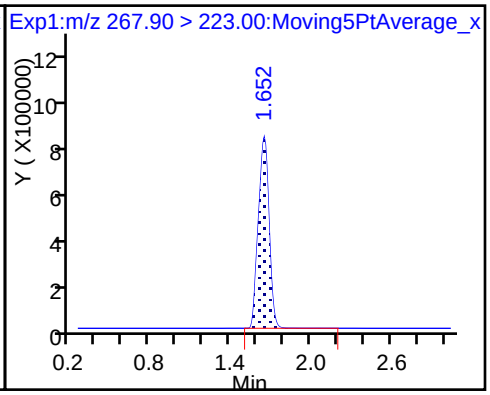
D 1 13C4 PFBA



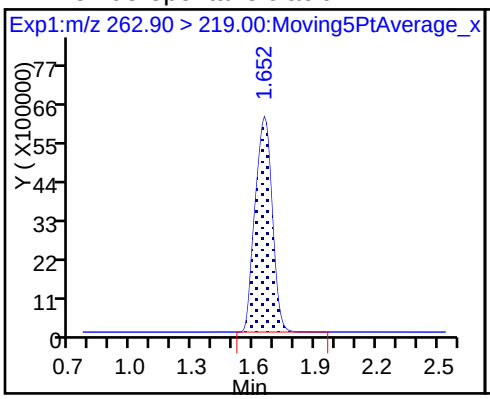
2 Perfluorobutyric acid



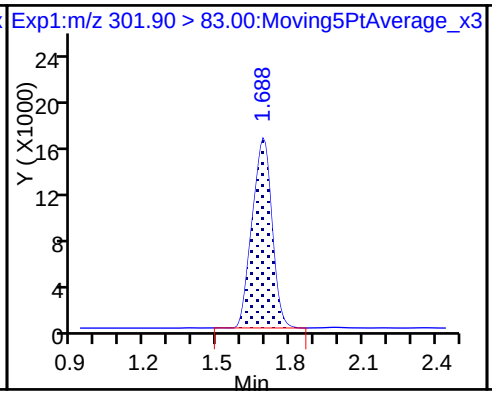
D 3 13C5-PFPeA



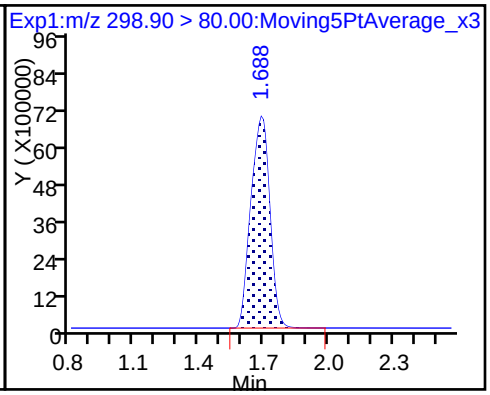
4 Perfluoropentanoic acid



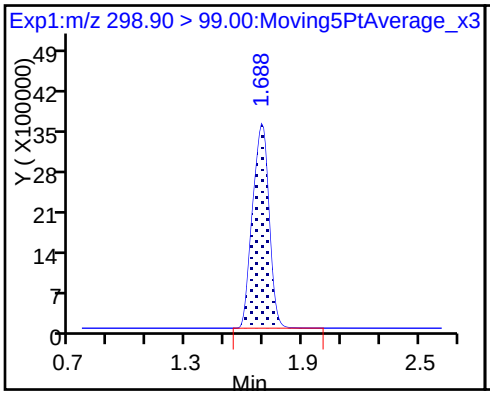
D 47 13C3-PFBS



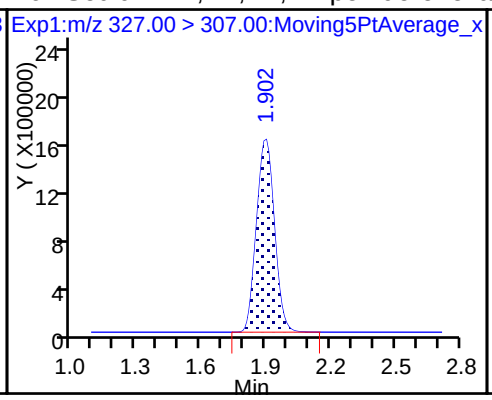
5 Perfluorobutanesulfonic acid



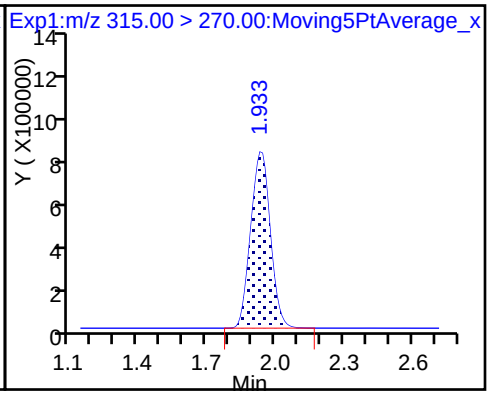
5 Perfluorobutanesulfonic acid



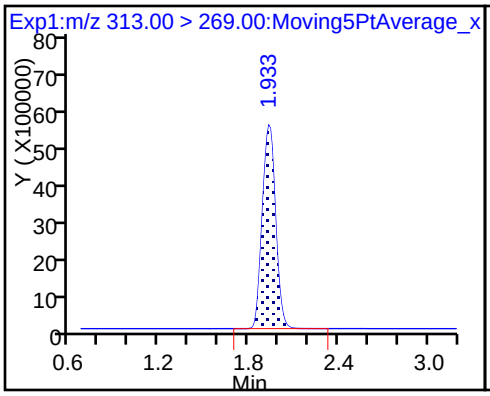
61 Sodium 1H,1H,2H,2H-perfluorohexa



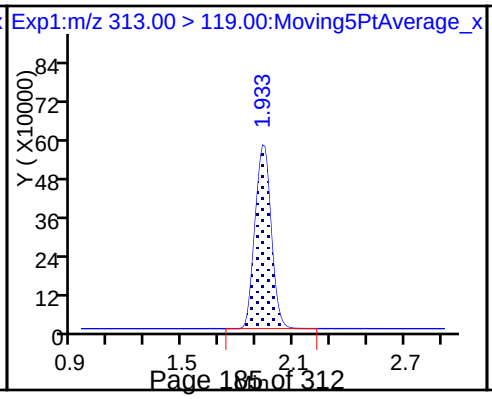
D 7 13C2 PFHxA



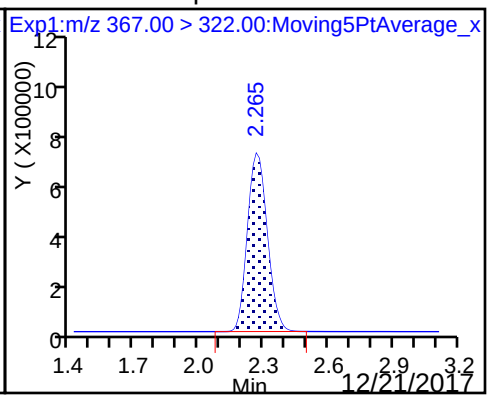
6 Perfluorohexanoic acid



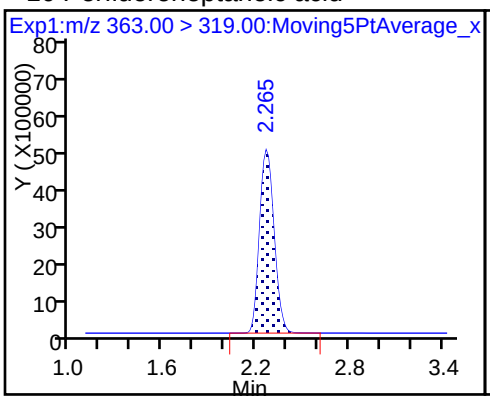
6 Perfluorohexanoic acid



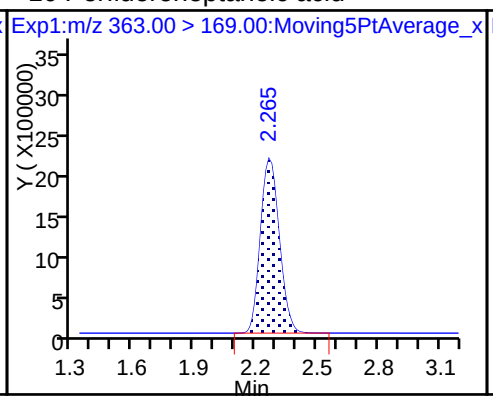
D 9 13C4-PFHpA



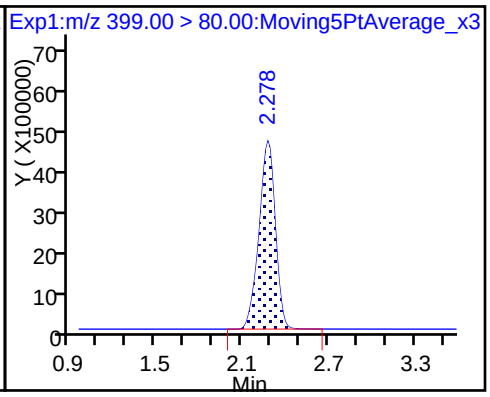
10 Perfluoroheptanoic acid



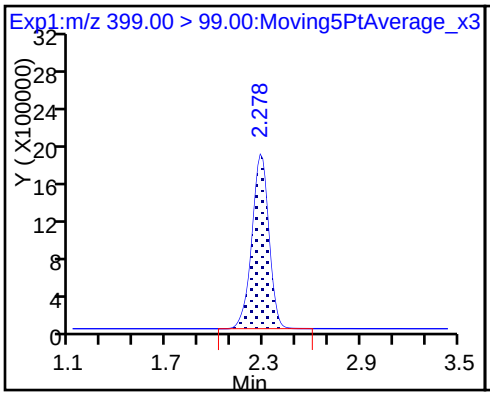
10 Perfluoroheptanoic acid



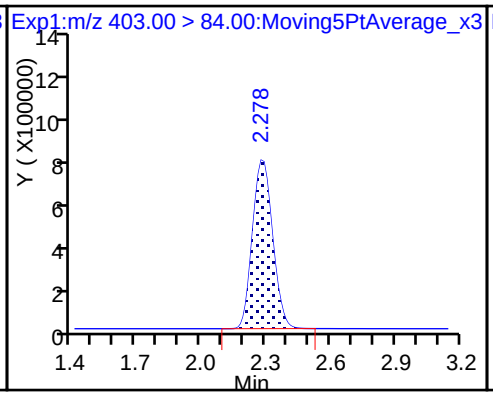
8 Perfluorohexanesulfonic acid



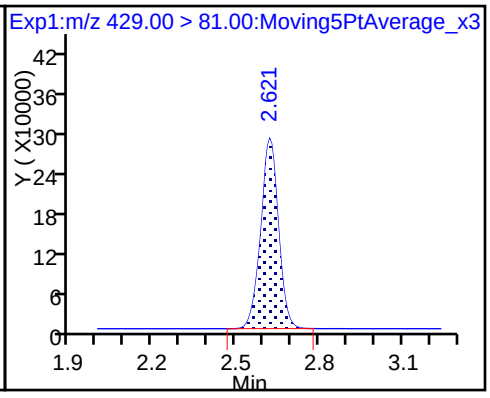
8 Perfluorohexanesulfonic acid



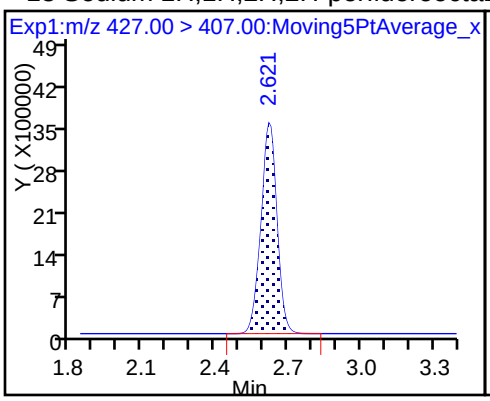
D 11 18O2 PFHxS



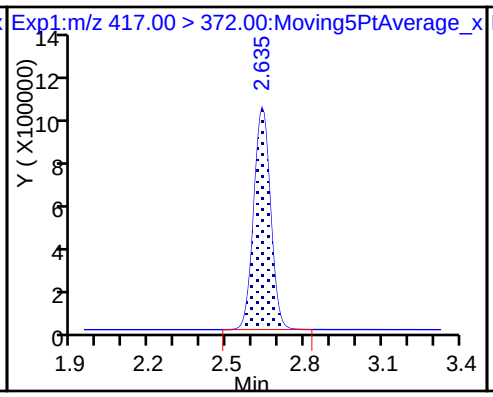
D 12 M2-6:2FTS



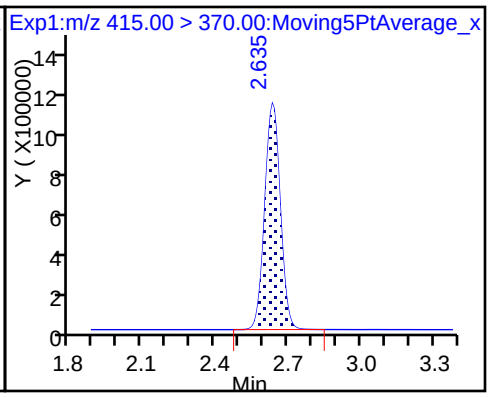
13 Sodium 1H,1H,2H,2H-perfluorooctane



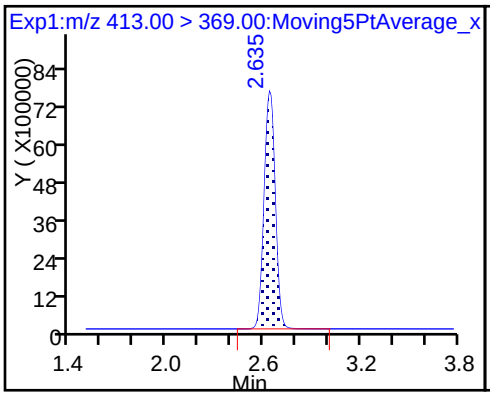
D 14 13C4 PFOA



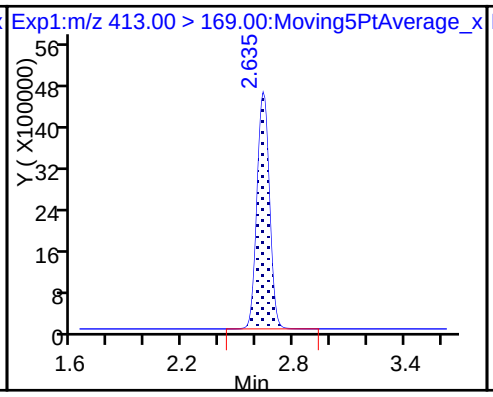
* 62 13C2-PFOA



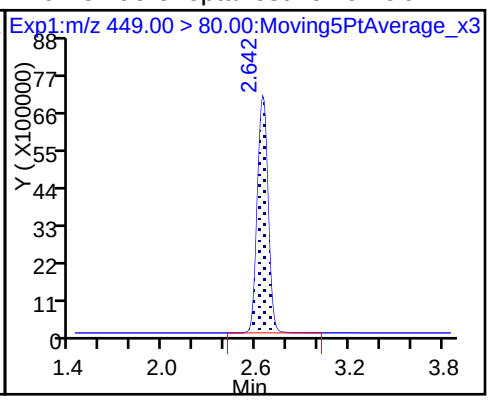
15 Perfluorooctanoic acid



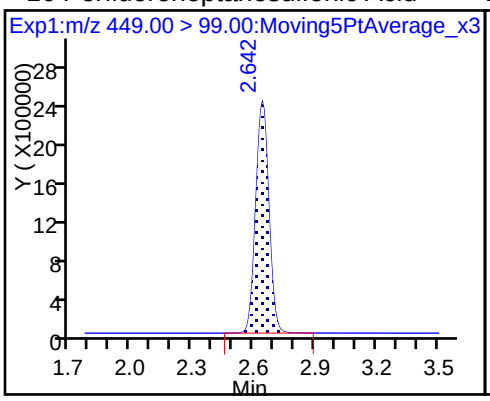
15 Perfluorooctanoic acid



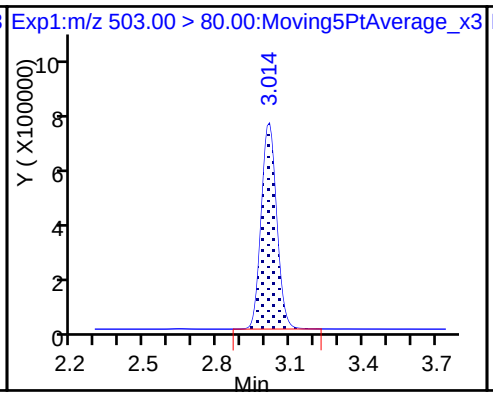
16 Perfluoroheptanesulfonic Acid



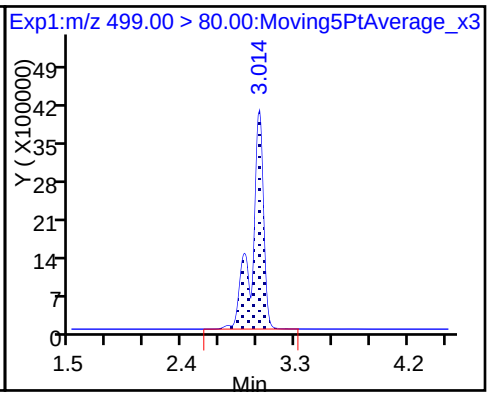
16 Perfluoroheptanesulfonic Acid



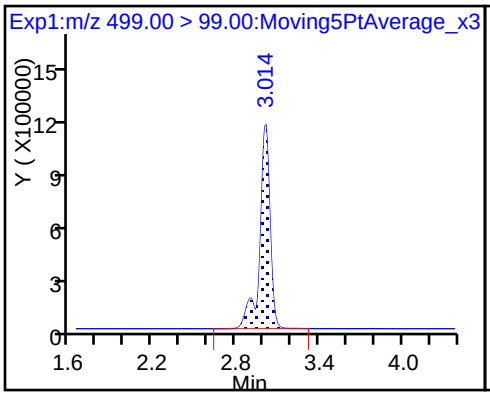
D 18 13C4 PFOS



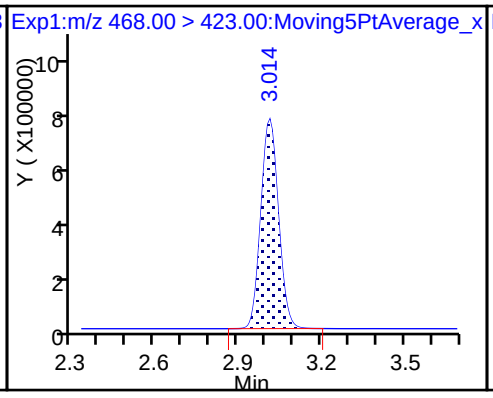
17 Perfluorooctane sulfonic acid



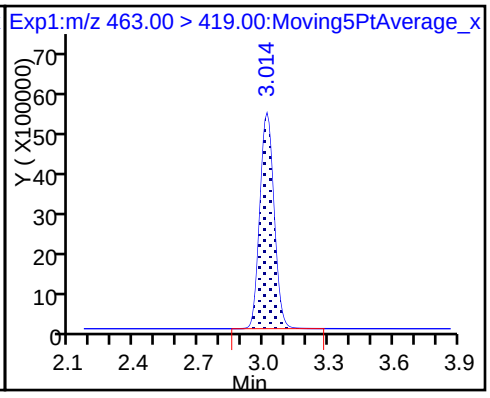
17 Perfluorooctane sulfonic acid



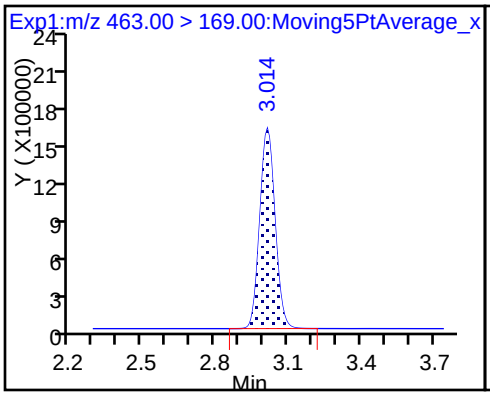
D 19 13C5 PFNA



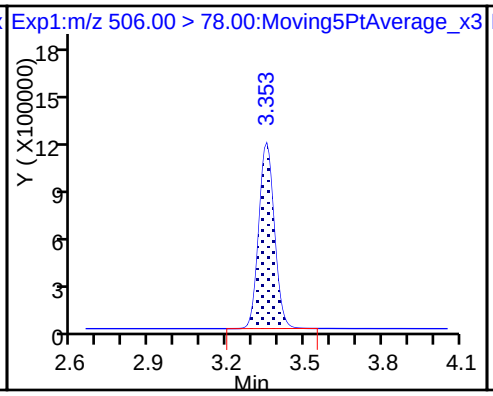
20 Perfluorononanoic acid



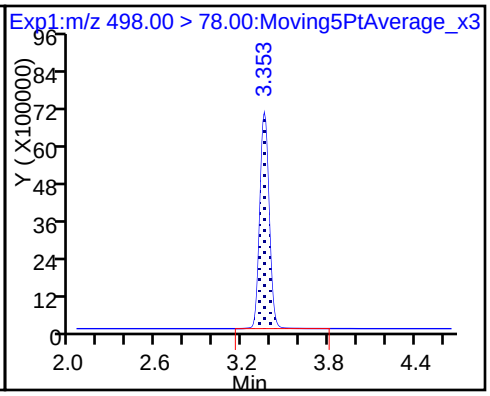
20 Perfluorononanoic acid



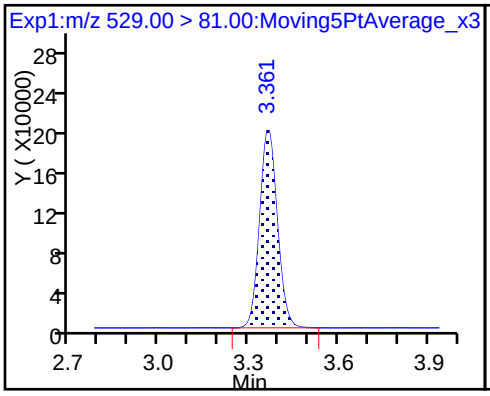
D 21 13C8 FOSA



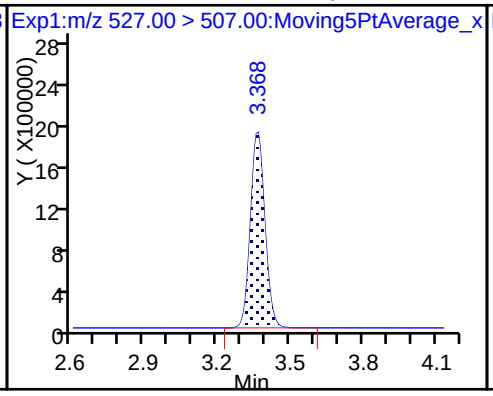
22 Perfluorooctane Sulfonamide



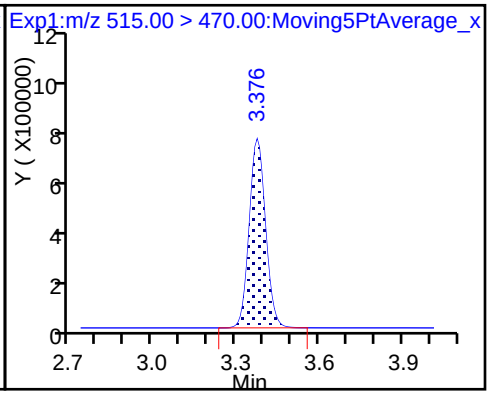
D 26 M2-8:2FTS



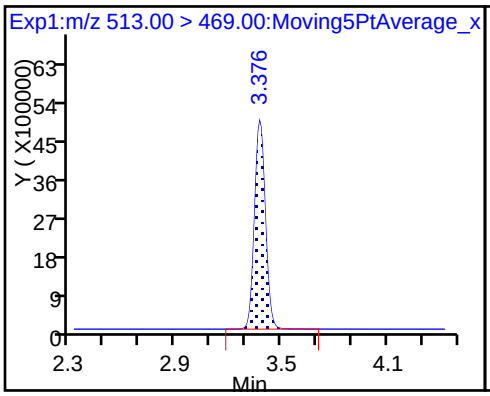
25 Sodium 1H,1H,2H,2H-perfluorodecane



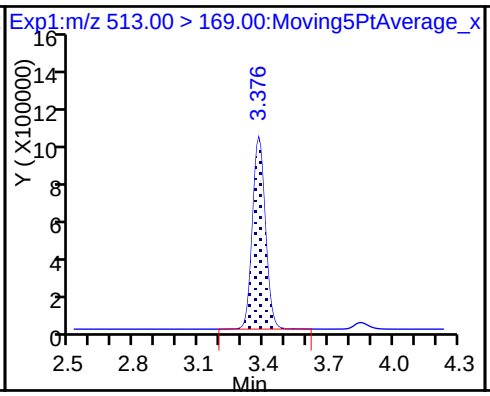
D 23 13C2 PFDA



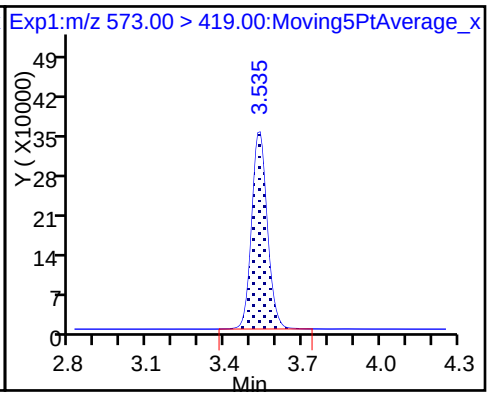
24 Perfluorodecanoic acid



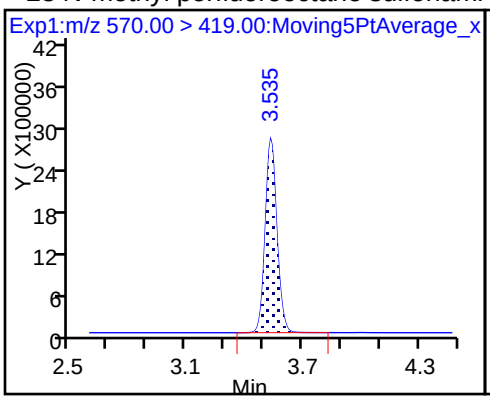
24 Perfluorodecanoic acid



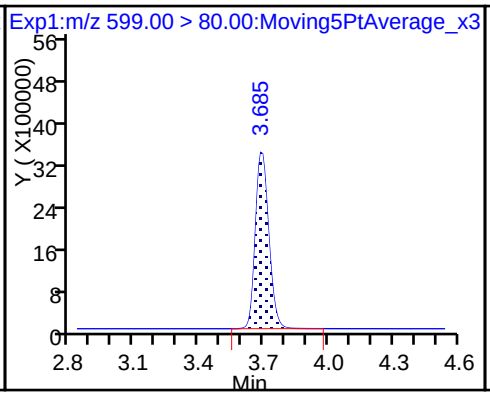
D 27 d3-NMeFOSAA



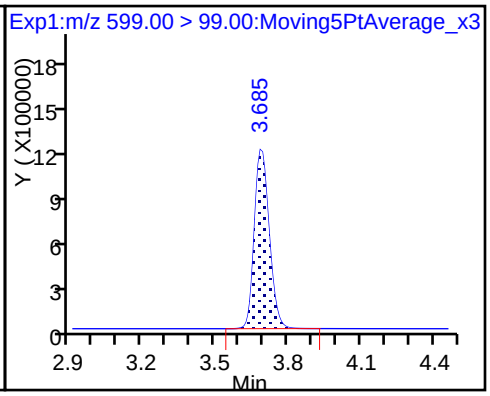
28 N-methyl perfluorooctane sulfonami



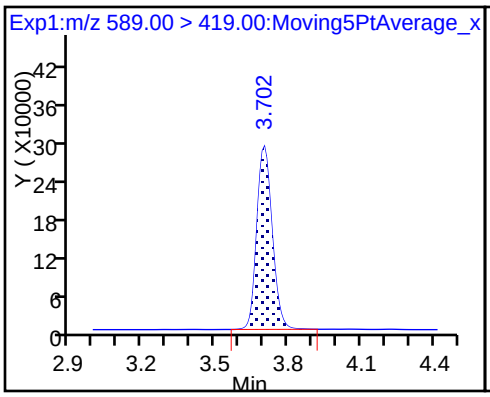
29 Perfluorodecane Sulfonic acid



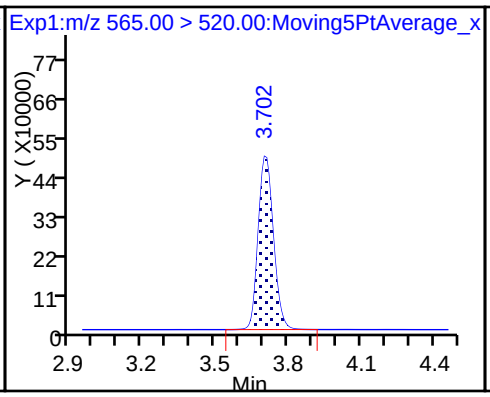
29 Perfluorodecane Sulfonic acid



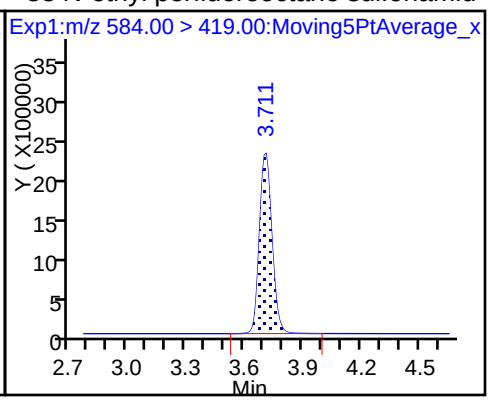
D 32 d5-NEtFOSAA



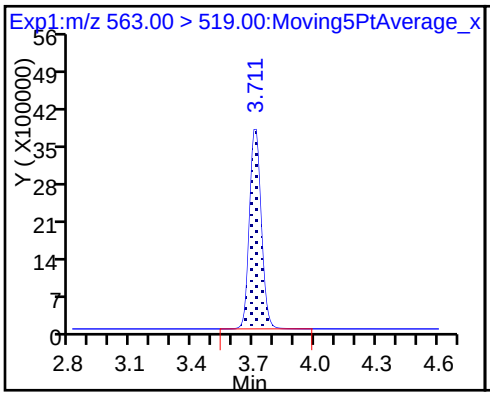
D 30 13C2 PFUnA



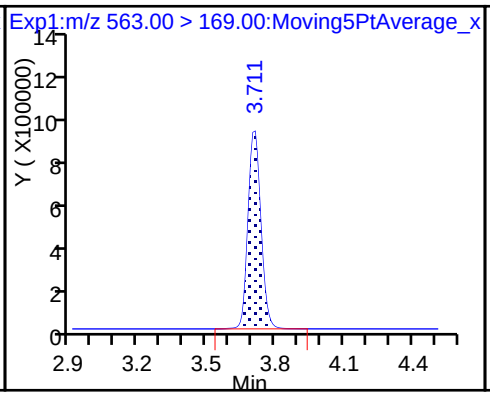
33 N-ethyl perfluorooctane sulfonamid



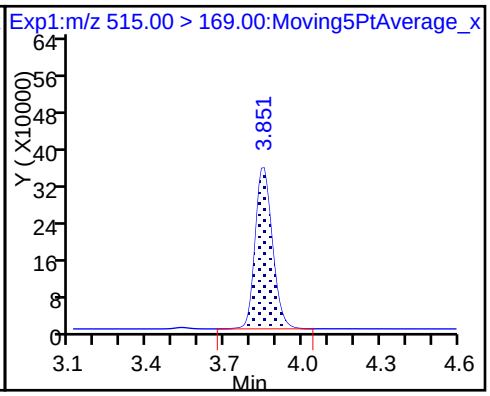
31 Perfluoroundecanoic acid



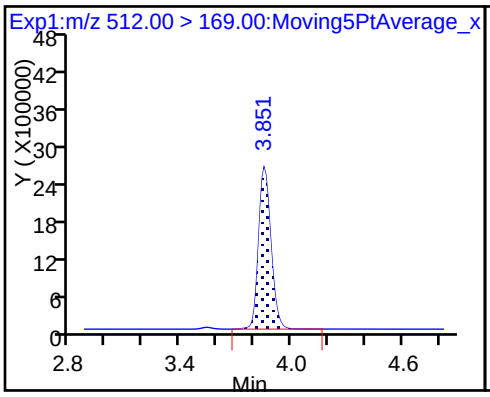
31 Perfluoroundecanoic acid



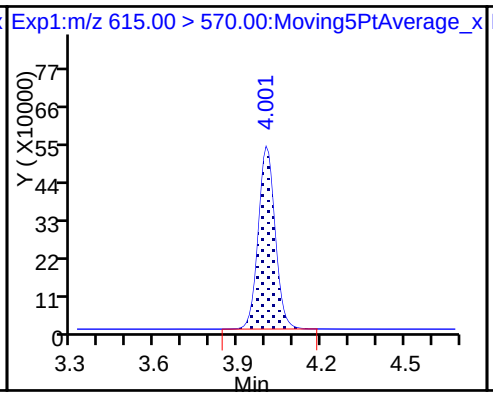
D 34 d-N-MeFOSA-M



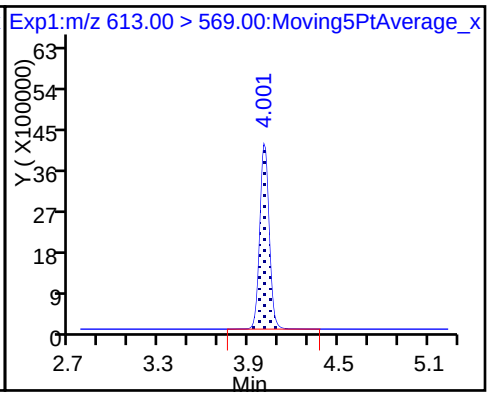
35 MeFOSA



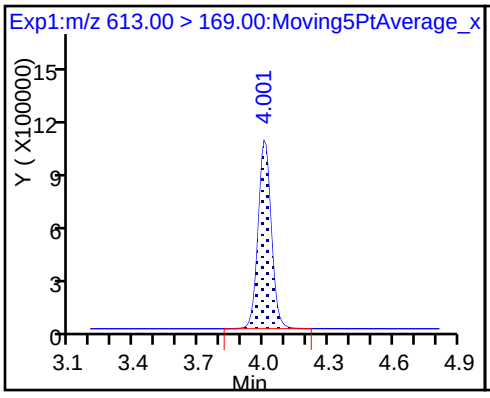
D 36 13C2 PFDoA



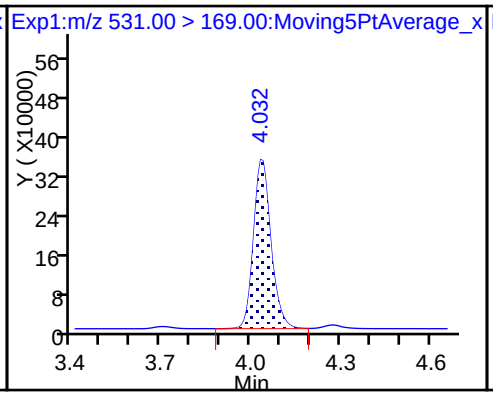
37 Perfluorododecanoic acid



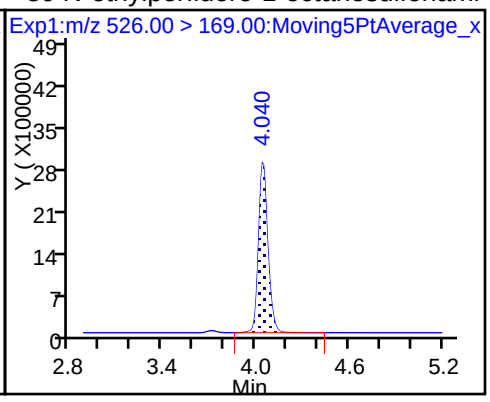
37 Perfluorododecanoic acid



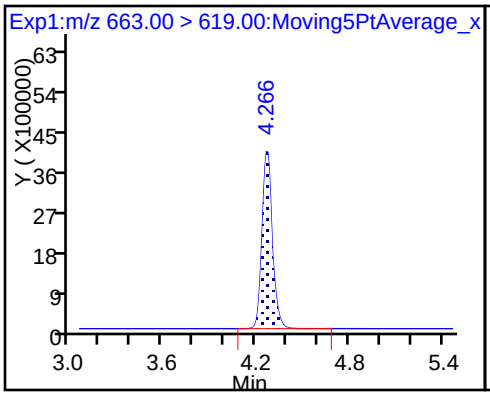
D 38 d-N-EtFOSA-M



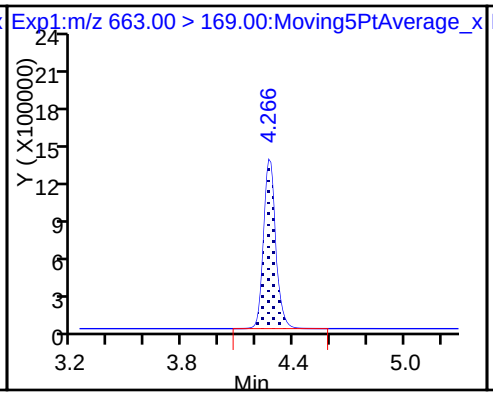
39 N-ethylperfluoro-1-octanesulfonami



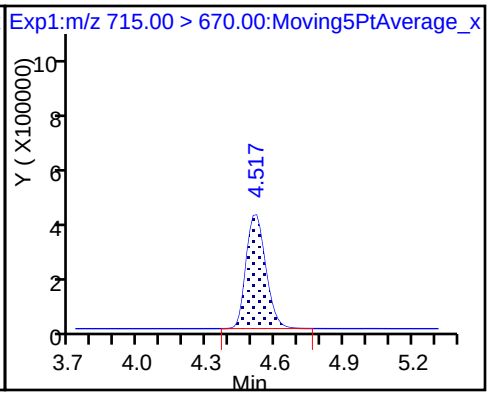
41 Perfluorotridecanoic acid



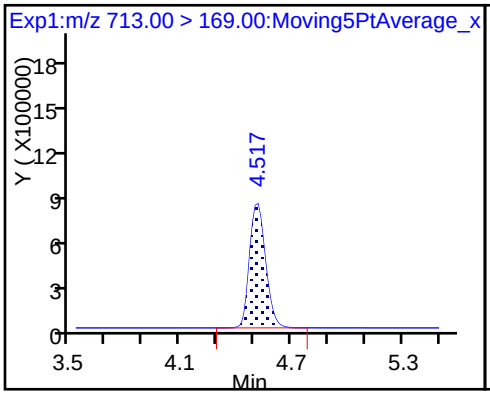
41 Perfluorotridecanoic acid



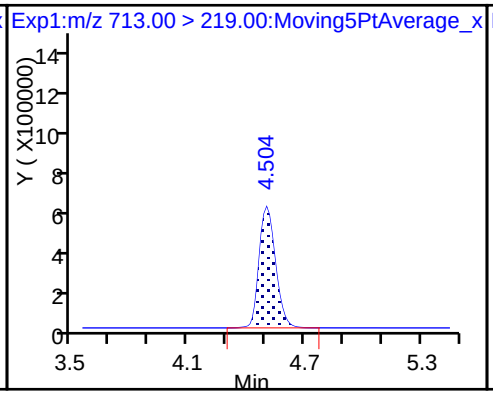
D 43 13C2-PFTeDA



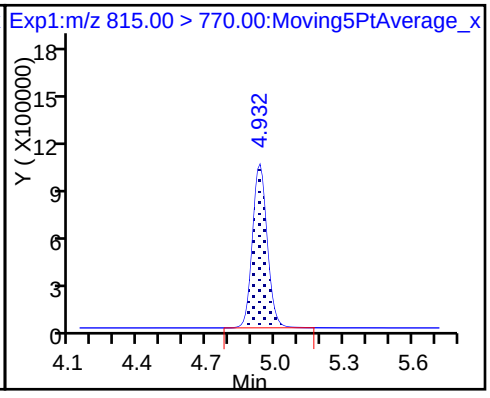
42 Perfluorotetradecanoic acid



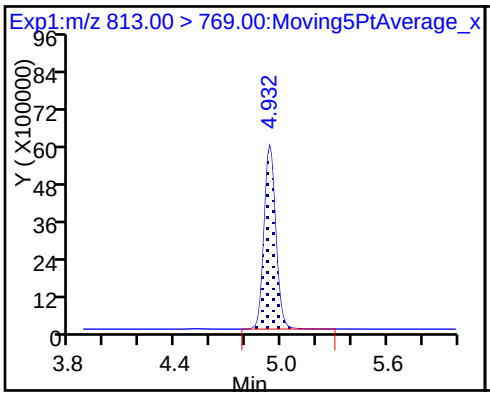
42 Perfluorotetradecanoic acid



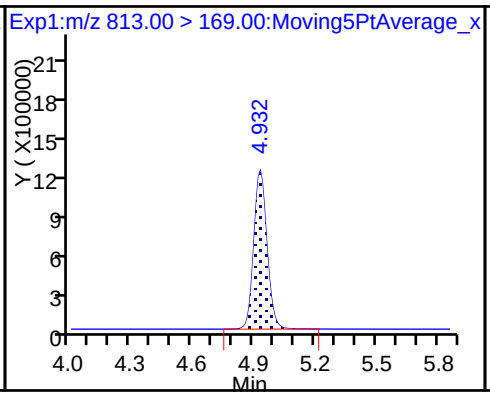
D 44 13C2-PFHxDA



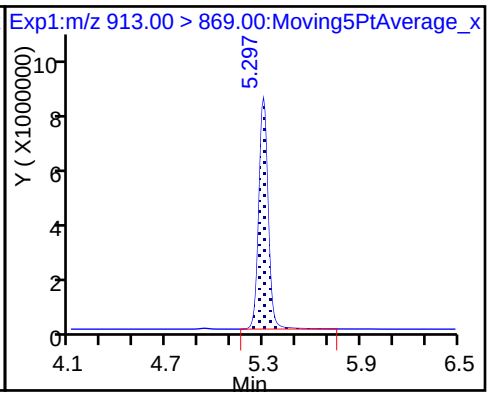
45 Perfluorohexadecanoic acid



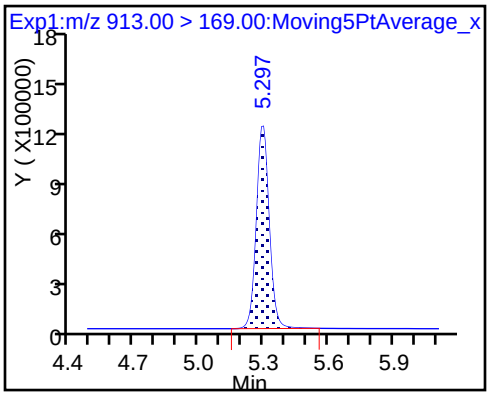
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d
Lims ID: IC M2-4:2FTS
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Dec-2017 16:55:37 ALS Bottle#: 22 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: M2:4-2FTS Calibration Std
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub19

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 09:54:29 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK021

First Level Reviewer: hannigana Date: 15-Dec-2017 08:19:25

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 60 M2-4:2FTS										
329.00 > 81.00	1.918	1.918	0.0	0.727	520857	2.34		100	22709	
* 62 13C2-PFOA										
415.00 > 370.00	2.640	2.638	0.002		5732940	2.50			55983	

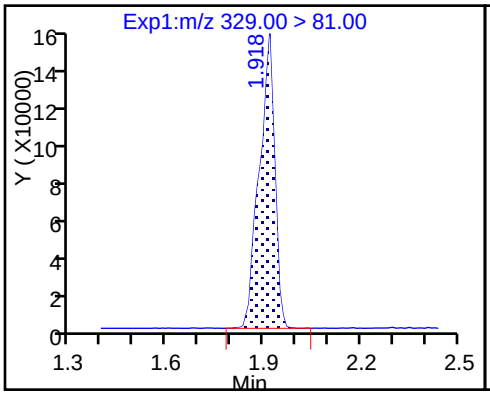
Reagents:

LCM2-4:2LLIC_00002 Amount Added: 1.00 Units: mL

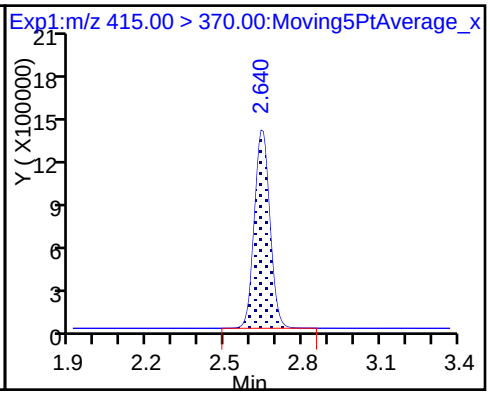
TestAmerica Sacramento

Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d				
Injection Date:	14-Dec-2017 16:55:37	Instrument ID:	A8_N		
Lims ID:	IC M2-4:2FTS				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	22	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		

D 60 M2-4:2FTS



* 62 13C2-PFOA



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Lab Sample ID: ICV 320-199988/12 Calibration Date: 12/14/2017 17:11

Instrument ID: A8_N Calib Start Date: 12/14/2017 15:52

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 12/14/2017 16:55

Lab File ID: 2017.12.14ICAL_012.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9017	0.9202		2.55	2.50	2.1	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.112	1.106		2.49	2.50	-0.6	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	73.33	82.01		2.47	2.21	11.8	50.0
4:2 FTS	AveID	0.4676	0.3987		1.99	2.34	-14.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9862	1.019		2.58	2.50	3.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.037	1.120		2.70	2.50	8.1	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.031		2.21	2.36	-6.6	40.0
6:2FTS	AveID	1.573	1.352		2.04	2.37	-14.1	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.063	1.105		2.60	2.50	4.0	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.475	1.318		2.13	2.38	-10.6	50.0
Perfluorononanoic acid (PFNA)	AveID	0.996	1.049		2.63	2.50	5.3	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.063	0.9666		2.17	2.39	-9.1	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9462	0.9372		2.48	2.50	-1.0	40.0
8:2FTS	AveID	1.217	1.180		2.32	2.40	-3.1	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9664	0.9824		2.54	2.50	1.7	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.044	0.9870		2.36	2.50	-5.5	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.5939	0.6386		2.59	2.41	7.5	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9651	0.9040		2.34	2.50	-6.3	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9075	0.9036		2.49	2.50	-0.4	40.0
MeFOSA	AveID	1.002	0.9803		2.44	2.50	-2.2	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9736	1.069		2.75	2.50	9.8	40.0
N-EtFOSA-M	AveID	1.033	1.020		2.47	2.50	-1.2	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.104	1.185		2.68	2.50	7.4	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2499	0.2413		2.41	2.50	-3.4	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9819		2.77	2.50	10.8	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.128	1.187		2.63	2.50	5.2	50.0
13C4 PFBA	Ave	1.463	1.425		2.44	2.50	-2.6	50.0
13C5 PFPeA	Ave	0.8617	0.8366		2.43	2.50	-2.9	50.0
13C3-PFBS	Ave	0.0185	0.0170		2.14	2.33	-8.0	50.0
13C2 PFHxA	Ave	0.9002	0.8797		2.44	2.50	-2.3	50.0
13C4-PFHpA	Ave	0.8445	0.8197		2.43	2.50	-2.9	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Lab Sample ID: ICV 320-199988/12 Calibration Date: 12/14/2017 17:11

Instrument ID: A8_N Calib Start Date: 12/14/2017 15:52

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 12/14/2017 16:55

Lab File ID: 2017.12.14ICAL_012.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
18O2 PFHxS	Ave	1.051	1.029		2.31	2.37	-2.2	50.0
M2-6:2FTS	Ave	0.4590	0.5401		2.79	2.38	17.7	40.0
13C4 PFOA	Ave	1.021	0.9658		2.37	2.50	-5.4	50.0
13C4 PFOS	Ave	0.6631	0.6864		2.47	2.39	3.5	50.0
13C5 PFNA	Ave	0.6758	0.6438		2.38	2.50	-4.7	50.0
13C8 FOSA	Ave	0.9504	0.9111		2.40	2.50	-4.1	50.0
M2-8:2FTS	Ave	0.1522	0.1584		2.49	2.40	4.0	40.0
13C2 PFDA	Ave	0.5506	0.5497		2.50	2.50	-0.2	50.0
d3-NMeFOSAA	Ave	0.2625	0.2626		2.50	2.50	0.0	50.0
d5-NEtFOSAA	Ave	0.2616	0.2671		2.55	2.50	2.1	50.0
13C2 PFUnA	Ave	0.4188	0.4117		2.46	2.50	-1.7	50.0
d-N-MeFOSA-M	Ave	0.2786	0.2826		2.54	2.50	1.4	50.0
13C2 PFDoA	Ave	0.4477	0.4165		2.33	2.50	-7.0	50.0
d-N-EtFOSA-M	Ave	0.2578	0.2542		2.47	2.50	-1.4	50.0
13C2-PFTeDA	Ave	0.4855	0.4821		2.48	2.50	-0.7	50.0
13C2-PFHxDA	Ave	0.8900	0.8037		2.26	2.50	-9.7	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_012.d
Lims ID: ICV Full
Client ID:
Sample Type: ICV
Inject. Date: 14-Dec-2017 17:11:19 ALS Bottle#: 18 Worklist Smp#: 12
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist:

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 09:56:51 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK021

First Level Reviewer: hannigana Date: 15-Dec-2017 09:00:42

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.401	1.406	-0.005	0.533	8121172	2.44		97.4	30690	
2 Perfluorobutyric acid										
212.90 > 169.00	1.401	1.408	-0.007	1.000	7473252	2.55			1422	
D 3 13C5-PFPeA										
267.90 > 223.00	1.652	1.656	-0.004	0.628	4767349	2.43		97.1	99598	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.652	1.656	-0.004	1.000	5272094	2.49			9807	
D 47 13C3-PFBS										
301.90 > 83.00	1.679	1.690	-0.011	0.638	90189	2.14		92.0	3287	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.688	1.692	-0.004	1.005	7038814	2.47			30680	
298.90 > 99.00	1.688	1.692	-0.004	1.005	2879309		2.44(1.25-3.74)		20819	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.892	1.902	-0.010	1.000	1146147	1.99			41218	
D 7 13C2 PFHxA										
315.00 > 270.00	1.933	1.938	-0.005	0.735	5013242	2.44		97.7	51317	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.933	1.939	-0.006	1.000	5110102	2.58			15419	
313.00 > 119.00	1.933	1.939	-0.006	1.000	480922		10.63(5.03-15.10)		10713	
D 9 13C4-PFHpA										
367.00 > 322.00	2.264	2.272	-0.008	0.861	4671325	2.43		97.1	32959	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.264	2.273	-0.009	1.000	5232045	2.70			13087	
363.00 > 169.00	2.264	2.273	-0.009	1.000	1996308		2.62(1.13-3.40)		13480	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.278	2.285	-0.007	1.000	5710912	2.21			23534	
399.00 > 99.00	2.278	2.285	-0.007	1.000	1778099		3.21(1.50-4.49)		10520	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.278	2.286	-0.008	0.866	5544451	2.31		97.8	44442	
D 12 M2-6:2FTS										
429.00 > 81.00	2.616	2.625	-0.009	0.995	2923857	2.79		118	86923	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.623	2.625	-0.002	1.003	3943835	2.04			79539	
D 14 13C4 PFOA										
417.00 > 372.00	2.630	2.637	-0.007	1.000	5503388	2.37		94.6	46435	
* 62 13C2-PFOA										
415.00 > 370.00	2.630	2.638	-0.008		5698548	2.50			55913	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.630	2.640	-0.010	1.000	6083832	2.60			14686	
413.00 > 169.00	2.630	2.640	-0.010	1.000	3230848		1.88(0.84-2.52)		21162	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.637	2.644	-0.007	1.000	4907350	2.13			43000	
449.00 > 99.00	2.637	2.644	-0.007	1.000	1287075		3.81(1.94-5.82)		23303	
D 18 13C4 PFOS										
503.00 > 80.00	3.008	3.014	-0.006	1.144	3739456	2.47		104	33373	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.008	3.015	-0.007	1.000	3610827	2.17			13268	
499.00 > 99.00	3.008	3.015	-0.007	1.000	840236		4.30(2.31-6.93)		14235	
D 19 13C5 PFNA										
468.00 > 423.00	3.008	3.015	-0.007	1.144	3668593	2.38		95.3	36367	
20 Perfluorononanoic acid										
463.00 > 419.00	3.008	3.017	-0.009	1.000	3847704	2.63			18179	
463.00 > 169.00	3.008	3.017	-0.009	1.000	910299		4.23(1.90-5.69)		24014	
D 21 13C8 FOSA										
506.00 > 78.00	3.347	3.354	-0.007	1.273	5191827	2.40		95.9	24194	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.347	3.356	-0.009	1.000	4865661	2.48			25886	
D 26 M2-8:2FTS										
529.00 > 81.00	3.362	3.368	-0.006	1.278	864451	2.49		104	21549	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.362	3.369	-0.007	1.000	1019897	2.32			25717	
D 23 13C2 PFDA										
515.00 > 470.00	3.370	3.379	-0.009	1.281	3132439	2.50		99.8	41350	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.370	3.379	-0.009	1.000	3077222	2.54			23194	
513.00 > 169.00	3.370	3.379	-0.009	1.000	534123		5.76(2.36-7.09)		2560	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.529	3.535	-0.006	1.342	1496133	2.50		100	24690	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.529	3.538	-0.009	1.000	1476728	2.36			8327	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.692	-0.005	1.000	2410491	2.59			42188	
599.00 > 99.00	3.687	3.692	-0.005	1.000	777196		3.10(1.39-4.16)		23655	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.696	3.704	-0.008	1.405	1522234	2.55		102	6928	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.704	3.709	-0.005	1.408	2345828	2.46		98.3	32770	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.704	3.710	-0.006	1.002	1376167	2.34			31964	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.704	3.711	-0.007	1.000	2119757	2.49			22131	
563.00 > 169.00	3.704	3.711	-0.007	1.000	486314		4.36(0.00-0.00)		25829	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.843	3.850	-0.007	1.461	1610209	2.54		101	4481	
35 MeFOSA										
512.00 > 169.00	3.852	3.856	-0.004	1.002	1578416	2.44			3694	
D 36 13C2 PFDoA										
615.00 > 570.00	3.996	4.008	-0.012	1.519	2373247	2.33		93.0	44351	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.996	4.008	-0.012	1.000	2537233	2.75			9880	
613.00 > 169.00	3.996	4.008	-0.012	1.000	605636		4.19(2.13-6.40)		29112	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.035	4.039	-0.004	1.534	1448412	2.47		98.6	2994	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.043	4.047	-0.004	1.002	1477454	2.47			3614	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.269	4.275	-0.006	1.000	2812454	2.68			21068	
663.00 > 169.00	4.269	4.275	-0.006	1.000	850585		3.31(1.25-3.76)		31694	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.513	4.519	-0.006	1.716	2747313	2.48		99.3	27453	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.513	4.519	-0.006	1.000	662908	2.41			18686	
713.00 > 219.00	4.499	4.519	-0.020	0.997	492363		1.35(0.71-2.13)		14240	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.921	4.935	-0.014	1.871	4580158	2.26		90.3	12539	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.930	4.935	-0.005	1.002	4497205	2.77			2779	
813.00 > 169.00	4.921	4.935	-0.014	1.000	788646		5.70(2.86-8.58)		9455	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.288	5.299	-0.011	1.000	5436501	2.63			1455	
913.00 > 169.00	5.288	5.299	-0.011	1.000	654295		8.31(0.00-0.00)		2553	

Reagents:

LCPFCIC_FULL_00007 Amount Added: 0.25 Units: mL

Report Date: 15-Dec-2017 09:56:52 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_012.d

Injection Date: 14-Dec-2017 17:11:19 Instrument ID: A8_N

Lims ID: ICV Full

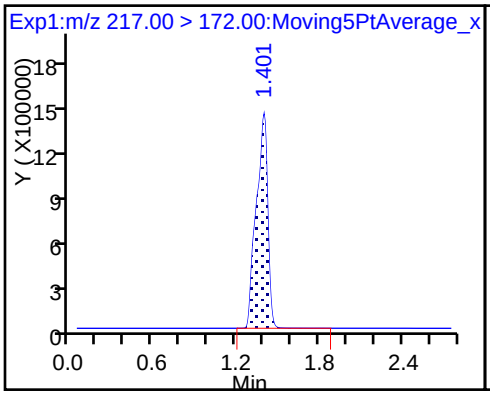
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 18 Worklist Smp#: 12

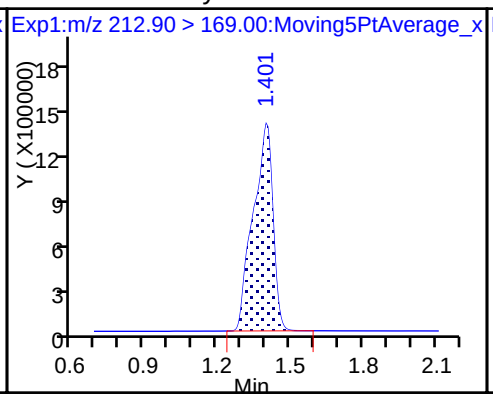
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

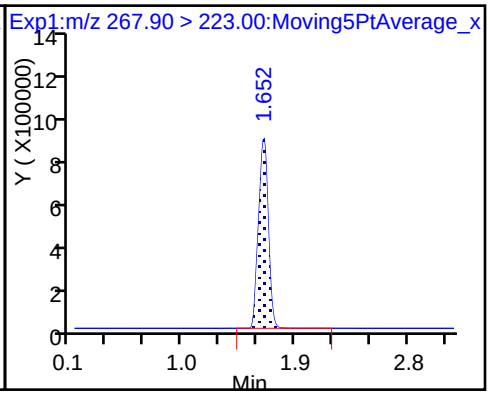
D 1 13C4 PFBA



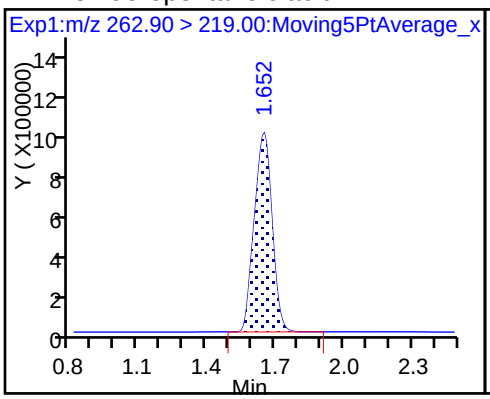
2 Perfluorobutyric acid



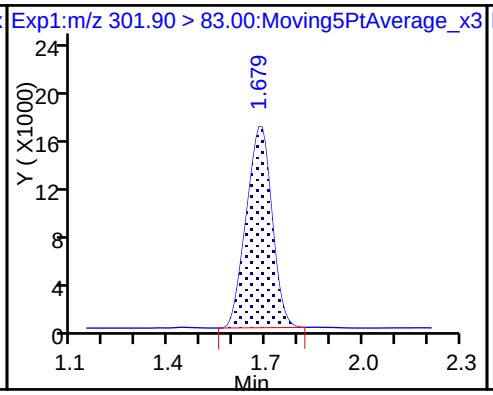
D 3 13C5-PFPeA



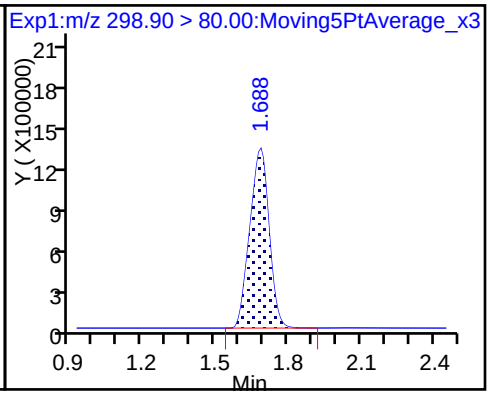
4 Perfluoropentanoic acid



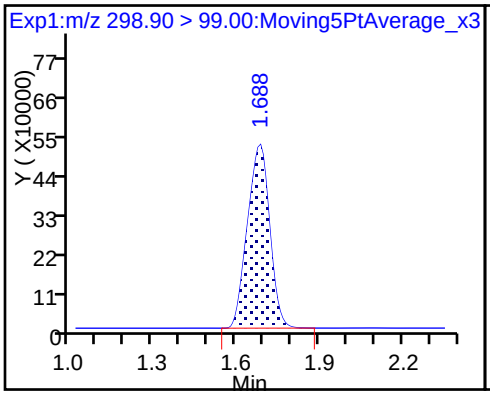
D 47 13C3-PFBS



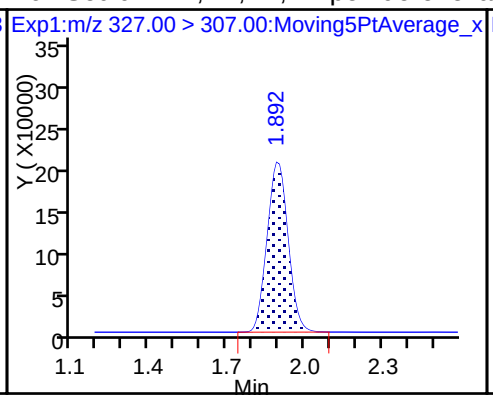
5 Perfluorobutanesulfonic acid



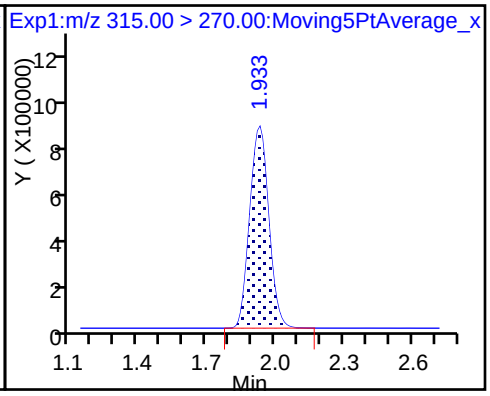
5 Perfluorobutanesulfonic acid



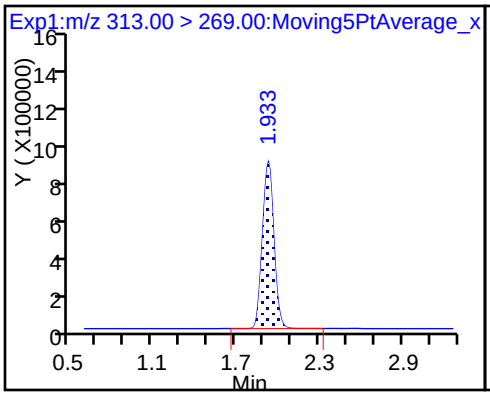
61 Sodium 1H,1H,2H,2H-perfluorohexa



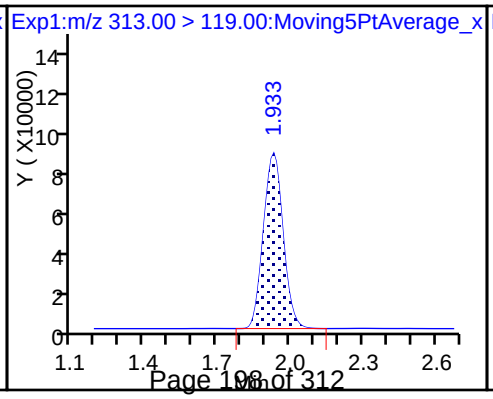
D 7 13C2 PFHxA



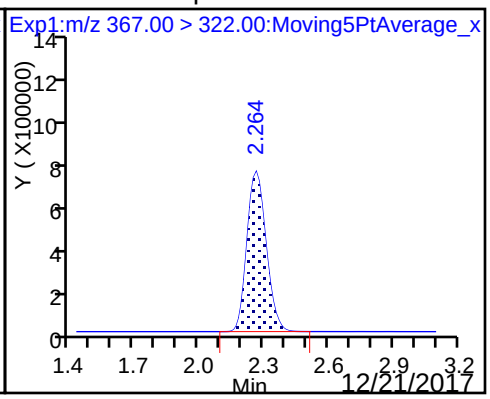
6 Perfluorohexanoic acid



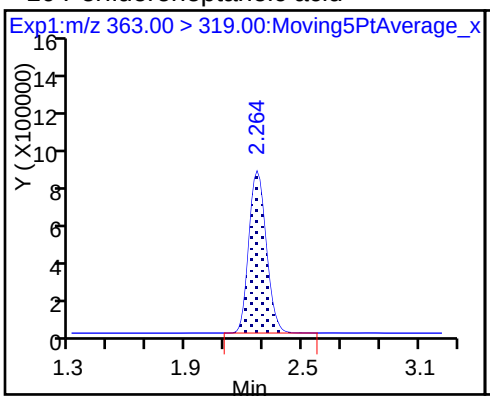
6 Perfluorohexanoic acid



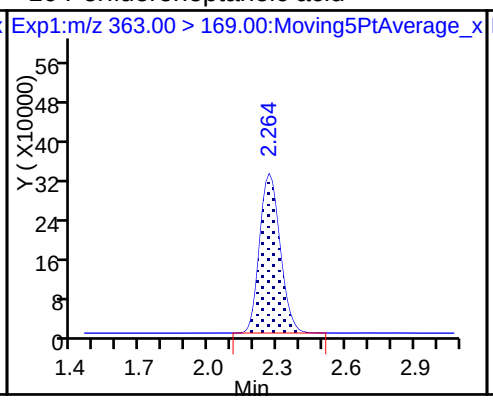
D 9 13C4-PFHpA



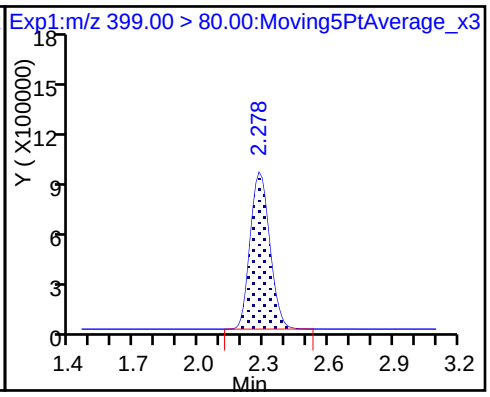
10 Perfluoroheptanoic acid



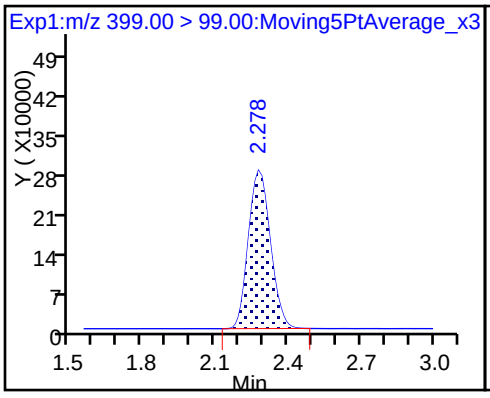
10 Perfluoroheptanoic acid



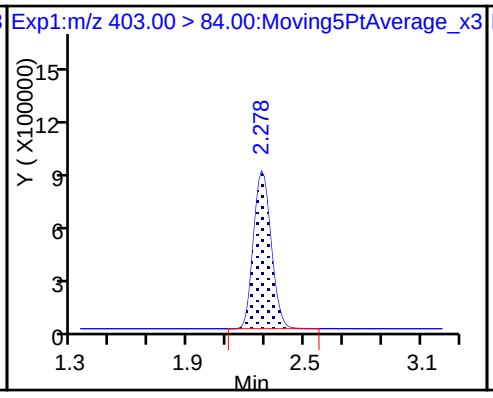
8 Perfluorohexanesulfonic acid



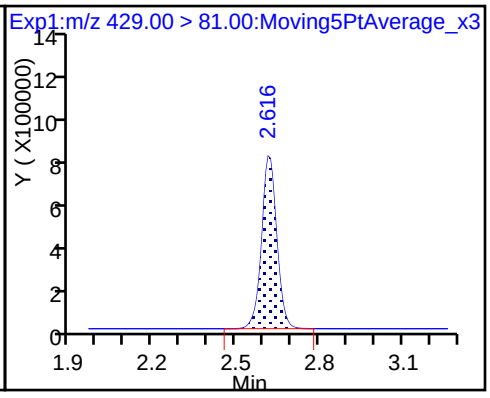
8 Perfluorohexanesulfonic acid



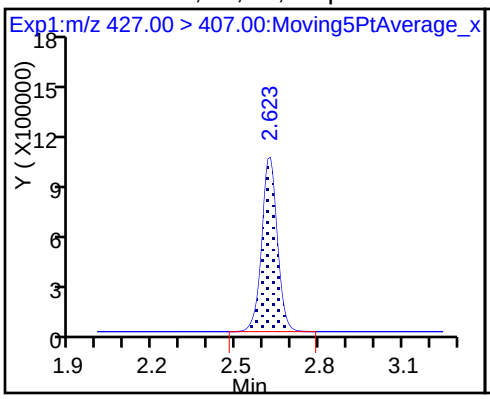
D 11 18O2 PFHxS



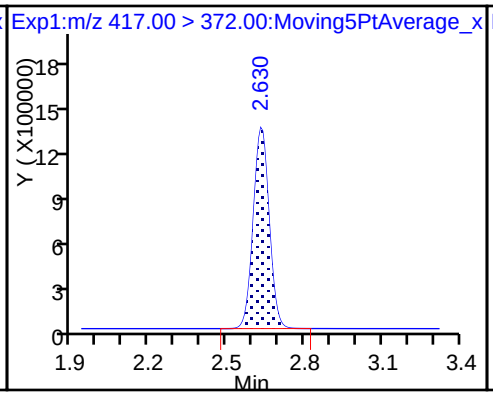
D 12 M2-6:2FTS



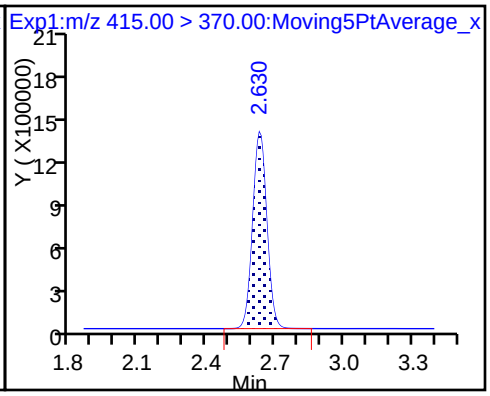
13 Sodium 1H,1H,2H,2H-perfluorooctane



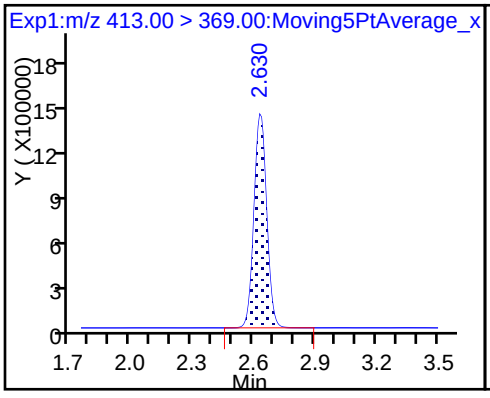
D 14 13C4 PFOA



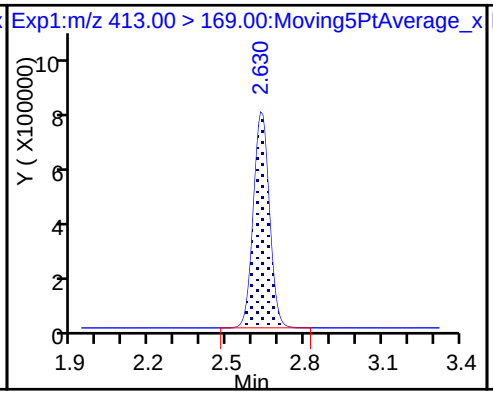
* 62 13C2-PFOA



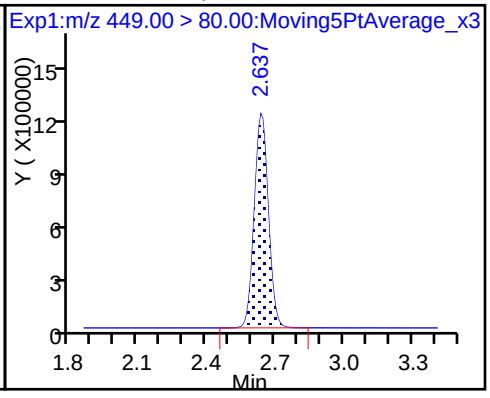
15 Perfluorooctanoic acid



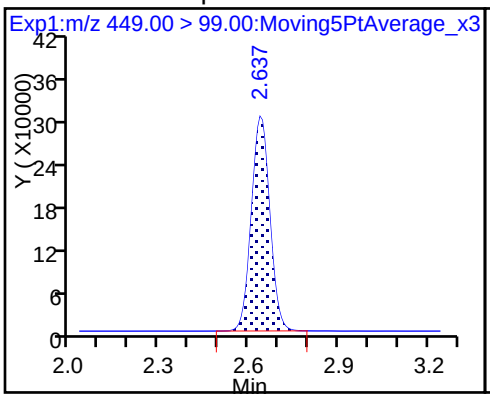
15 Perfluorooctanoic acid



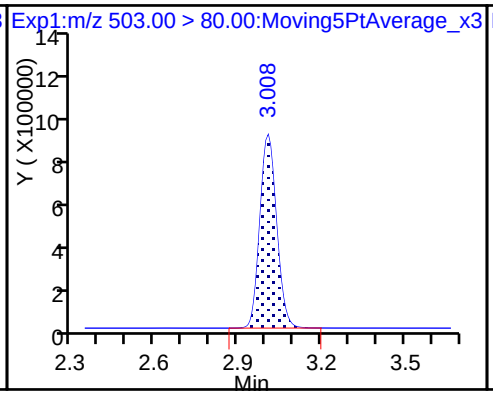
16 Perfluoroheptanesulfonic Acid



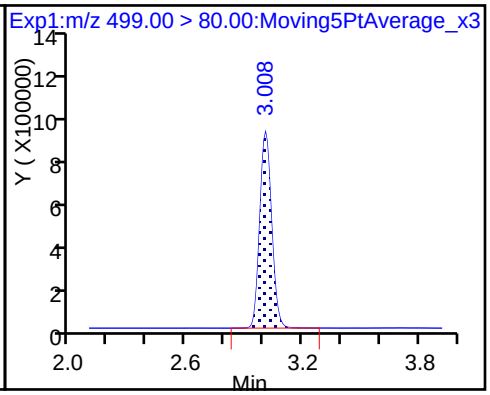
16 Perfluoroheptanesulfonic Acid



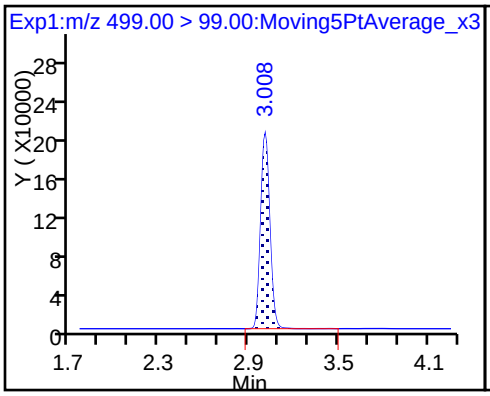
D 18 13C4 PFOS



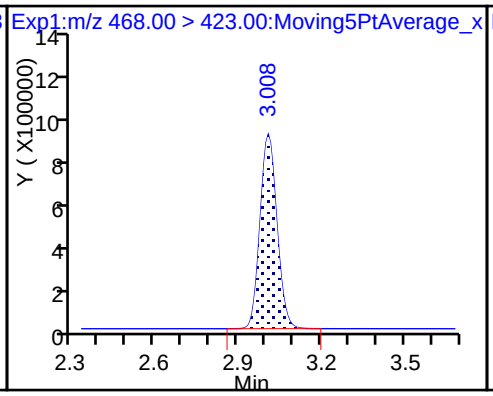
17 Perfluorooctane sulfonic acid



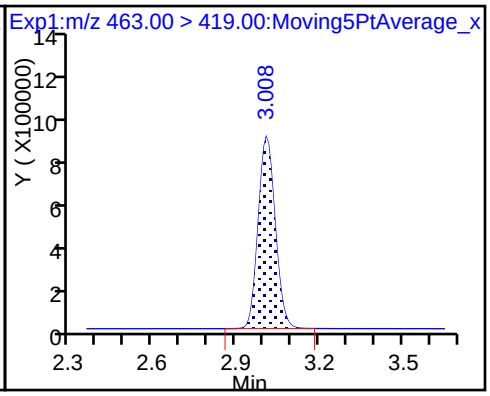
17 Perfluorooctane sulfonic acid



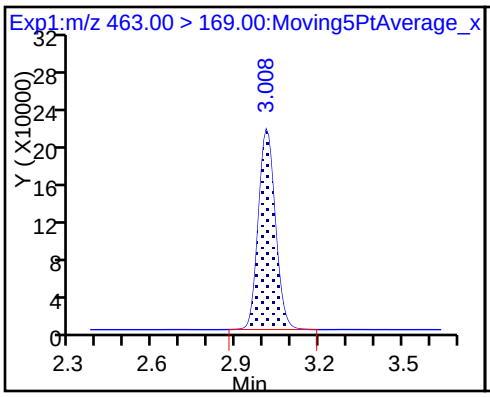
D 19 13C5 PFNA



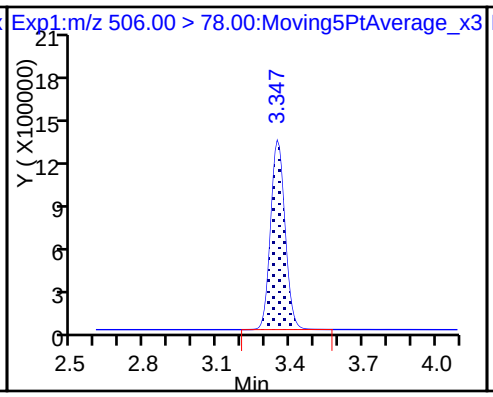
20 Perfluorononanoic acid



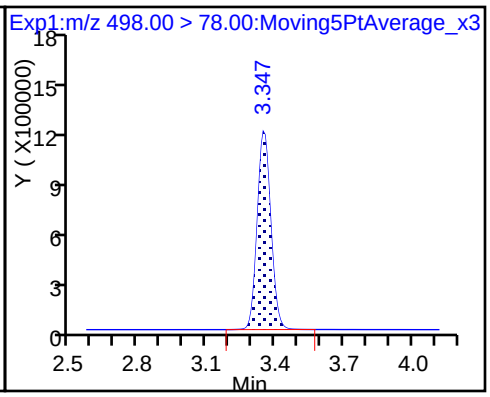
20 Perfluorononanoic acid



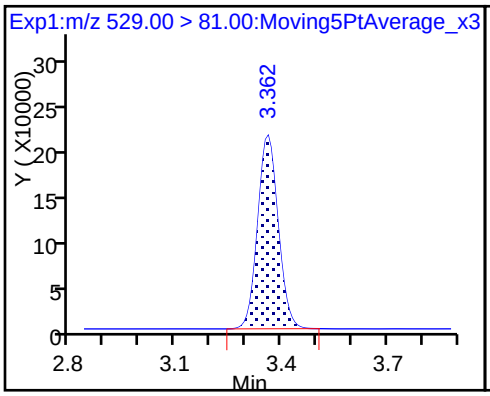
D 21 13C8 FOSA



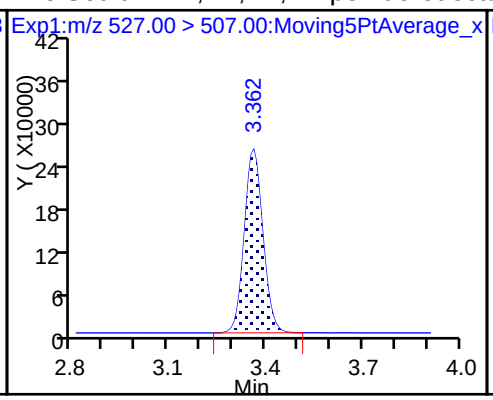
22 Perfluorooctane Sulfonamide



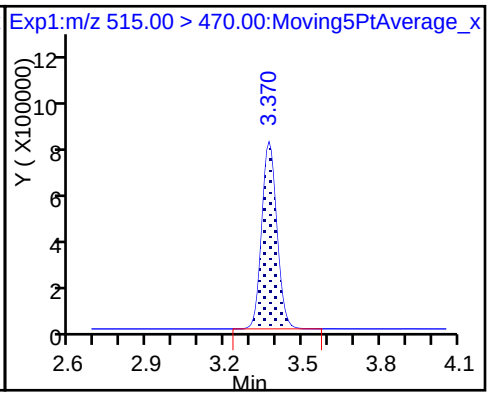
D 26 M2-8:2FTS



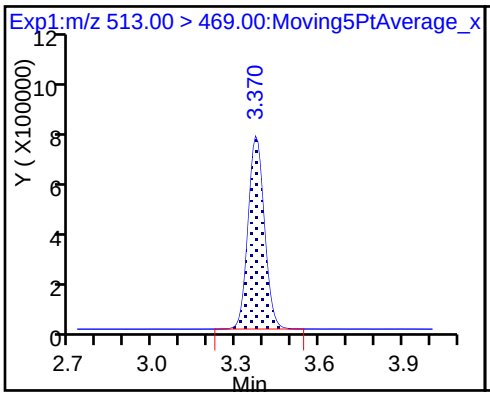
25 Sodium 1H,1H,2H,2H-perfluorodecane



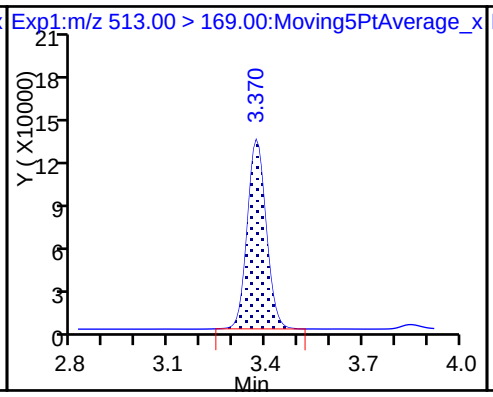
D 23 13C2 PFDA



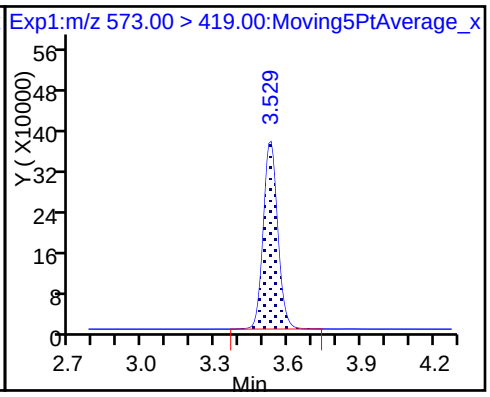
24 Perfluorodecanoic acid



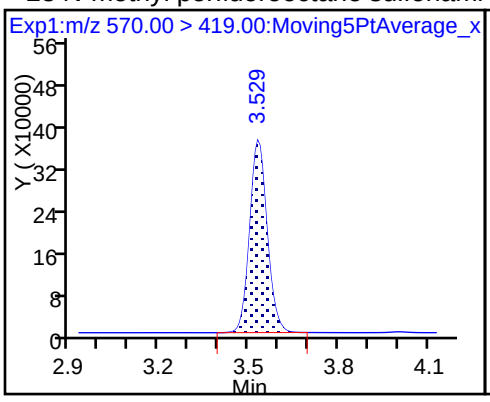
24 Perfluorodecanoic acid



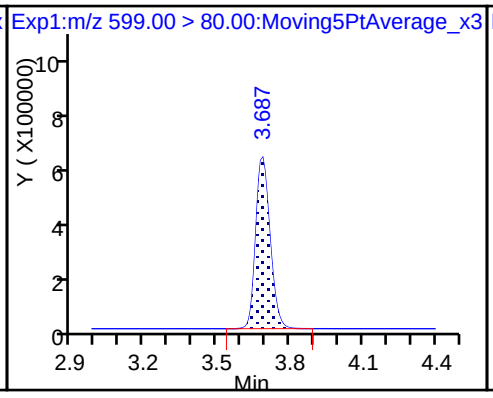
D 27 d3-NMeFOSAA



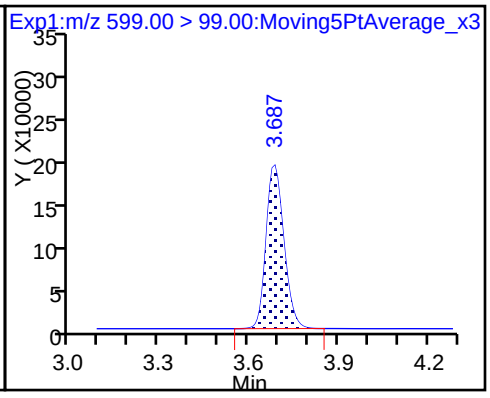
28 N-methyl perfluorooctane sulfonami



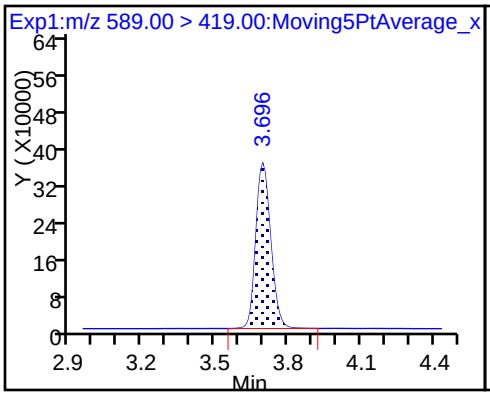
29 Perfluorodecane Sulfonic acid



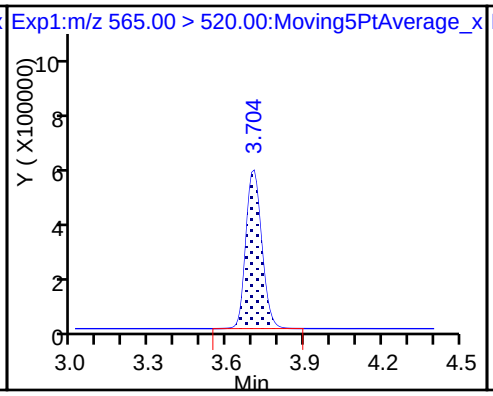
29 Perfluorodecane Sulfonic acid



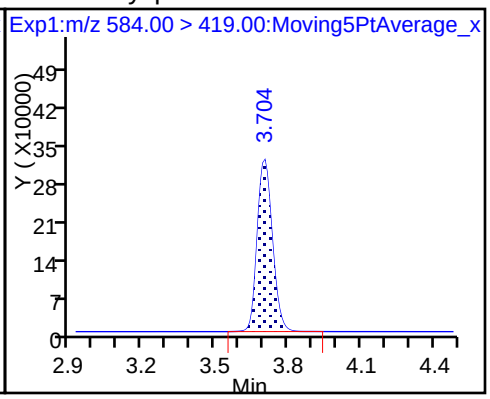
D 32 d5-NEtFOSAA



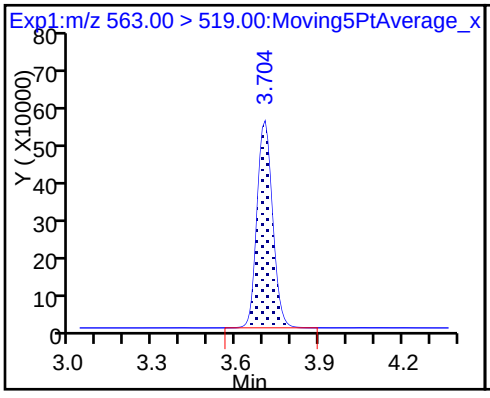
D 30 13C2 PFUnA



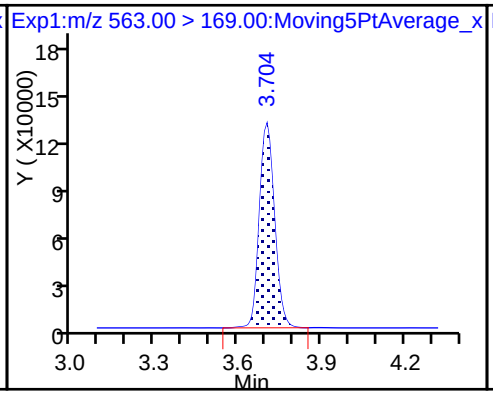
33 N-ethyl perfluorooctane sulfonamid



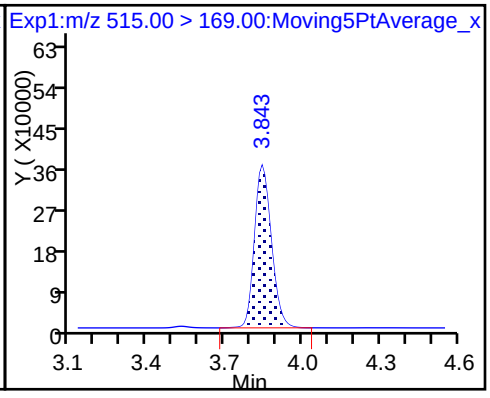
31 Perfluoroundecanoic acid



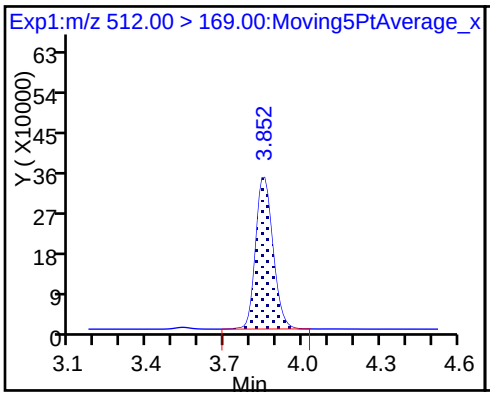
31 Perfluoroundecanoic acid



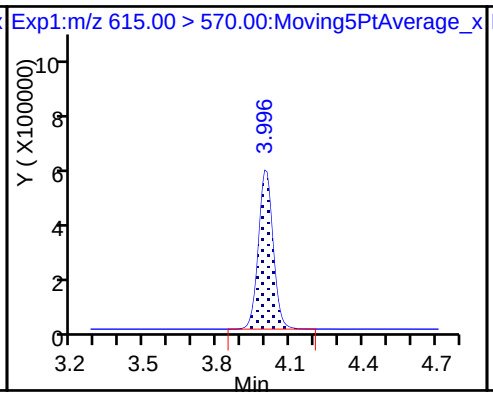
D 34 d-N-MeFOSA-M



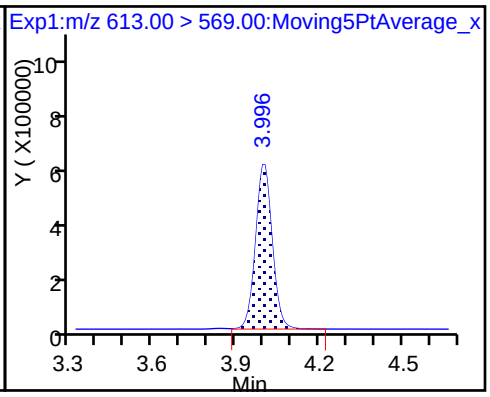
35 MeFOSA



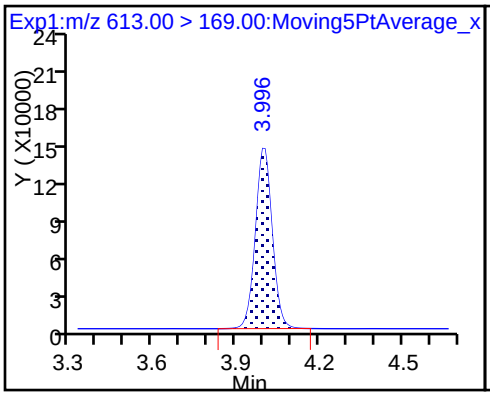
D 36 13C2 PFDoA



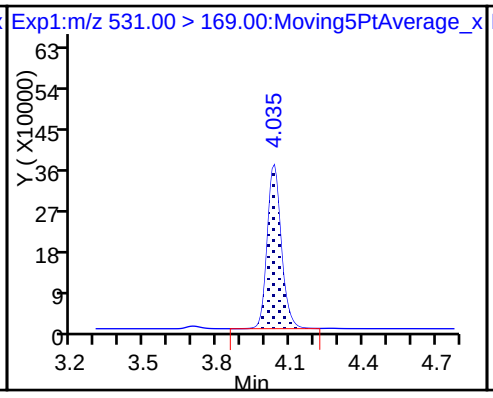
37 Perfluorododecanoic acid



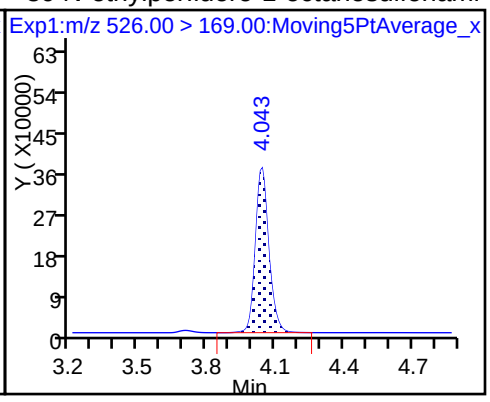
37 Perfluorododecanoic acid



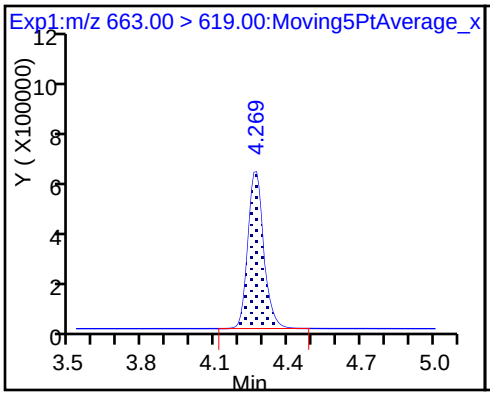
D 38 d-N-EtFOSA-M



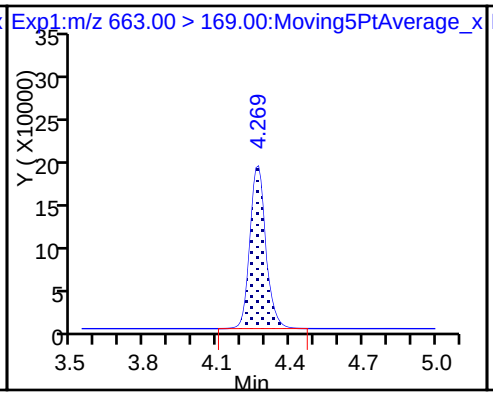
39 N-ethylperfluoro-1-octanesulfonami



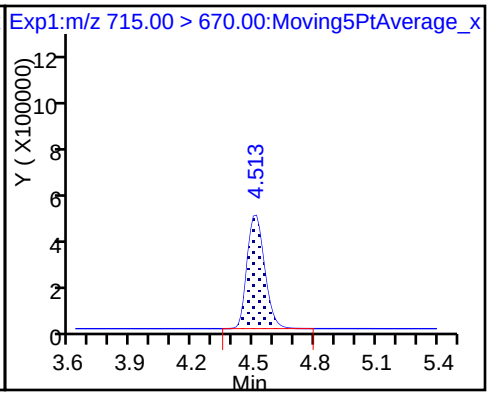
41 Perfluorotridecanoic acid



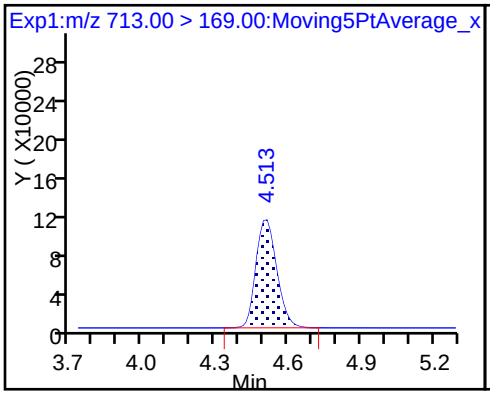
41 Perfluorotridecanoic acid



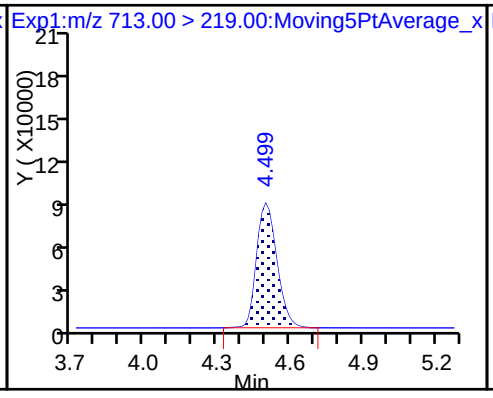
D 43 13C2-PFTeDA



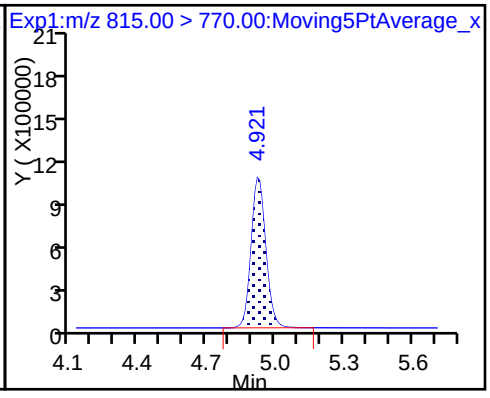
42 Perfluorotetradecanoic acid



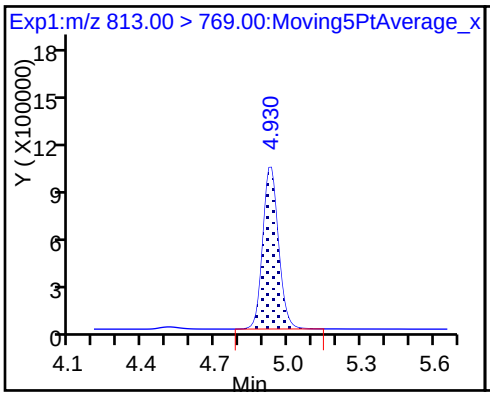
42 Perfluorotetradecanoic acid



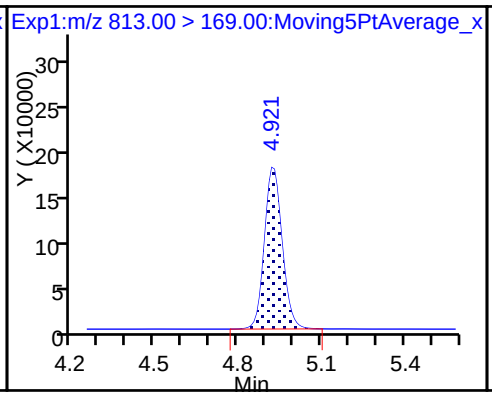
D 44 13C2-PFHxDA



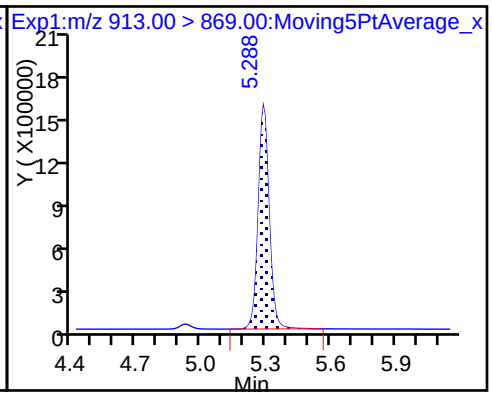
45 Perfluorohexadecanoic acid



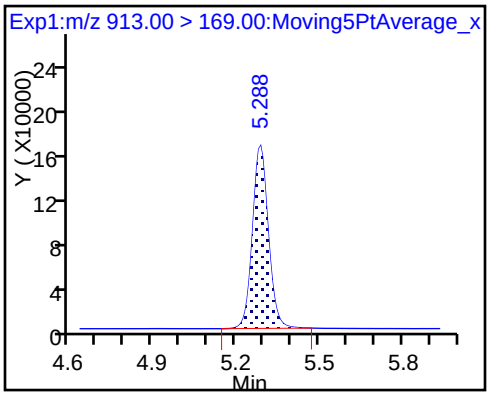
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Lab Sample ID: CCVL 320-200111/1 Calibration Date: 12/15/2017 11:49

Instrument ID: A8_N Calib Start Date: 12/14/2017 15:52

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 12/14/2017 16:55

Lab File ID: 2017.12.15LLA_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9017	0.9455		0.0524	0.0500	4.9	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.112	1.198		0.0538	0.0500	7.7	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	73.33	76.33		0.0460	0.0442	4.1	50.0
4:2 FTS	AveID	0.4676	0.996		0.995	0.467	113.0	
Perfluorohexanoic acid (PFHxA)	AveID	0.9862	0.9751		0.0494	0.0500	-1.1	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.037	1.095		0.0528	0.0500	5.6	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.158		0.0477	0.0455	4.9	50.0
6:2FTS	AveID	1.573	1.647		0.496	0.474	4.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.063	1.191		0.0560	0.0500	12.1	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.475	1.363		0.0440	0.0476	-7.5	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.063	1.067		0.0466	0.0464	0.4	50.0
Perfluorononanoic acid (PFNA)	AveID	0.996	1.036		0.0520	0.0500	4.0	50.0
8:2FTS	AveID	1.217	1.129		0.444	0.479	-7.3	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9664	0.9522		0.0493	0.0500	-1.5	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9462	1.003		0.0530	0.0500	6.0	50.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.044	1.039		0.498	0.500	-0.5	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.5939	0.6171		0.0501	0.0482	3.9	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9651	0.9850		0.510	0.500	2.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9075	0.9112		0.0502	0.0500	0.4	50.0
MeFOSA	AveID	1.002	0.9700			0.500	-3.2	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9736	0.9858		0.0506	0.0500	1.3	50.0
N-EtFOSA-M	AveID	1.033	1.053			0.500	2.0	50.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.104	1.037		0.0470	0.0500	-6.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2499	0.2631		0.0526	0.0500	5.3	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.278		0.0495	0.0500	-0.9	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.128	1.119		0.0496	0.0500	-0.8	50.0
13C4 PFBA	Ave	1.463	1.495		2.56	2.50	2.2	50.0
13C5 PFPeA	Ave	0.8617	0.9100		2.64	2.50	5.6	50.0
13C3-PFBS	Ave	0.0185	0.0193		2.43	2.33	4.4	50.0
13C2 PFHxA	Ave	0.9002	0.9705		2.70	2.50	7.8	50.0
13C4-PFHpA	Ave	0.8445	0.8918		2.64	2.50	5.6	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Lab Sample ID: CCVL 320-200111/1 Calibration Date: 12/15/2017 11:49

Instrument ID: A8_N Calib Start Date: 12/14/2017 15:52

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 12/14/2017 16:55

Lab File ID: 2017.12.15LLA_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
18O2 PFHxS	Ave	1.051	1.144		2.57	2.37	8.8	50.0
M2-6:2FTS	Ave	0.4590	0.2663		1.38	2.38	-42.0	50.0
13C4 PFOA	Ave	1.021	1.036		2.54	2.50	1.5	50.0
13C4 PFOS	Ave	0.6631	0.7260		2.62	2.39	9.5	50.0
13C5 PFNA	Ave	0.6758	0.7135		2.64	2.50	5.6	50.0
M2-8:2FTS	Ave	0.1522	0.1715		2.70	2.40	12.7	50.0
13C2 PFDA	Ave	0.5506	0.5889		2.67	2.50	7.0	50.0
13C8 FOSA	Ave	0.9504	0.9809		2.58	2.50	3.2	50.0
d3-NMeFOSAA	Ave	0.2625	0.2904		2.77	2.50	10.6	50.0
d5-NEtFOSAA	Ave	0.2616	0.3053		2.92	2.50	16.7	50.0
13C2 PFUnA	Ave	0.4188	0.4541		2.71	2.50	8.4	50.0
d-N-MeFOSA-M	Ave	0.2786	0.2834		2.54	2.50	1.7	50.0
13C2 PFDoA	Ave	0.4477	0.4894		2.73	2.50	9.3	50.0
d-N-EtFOSA-M	Ave	0.2578	0.2669		2.59	2.50	3.5	50.0
13C2-PFTeDA	Ave	0.4855	0.5374		2.77	2.50	10.7	50.0
13C2-PFHxDA	Ave	0.8900	0.9601		2.70	2.50	7.9	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171215-51814.b\2017.12.15LLA_005.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 15-Dec-2017 11:49:33 ALS Bottle#: 21 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub18

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171215-51814.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 15-Dec-2017 13:58:45 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK001

First Level Reviewer: roycea Date: 15-Dec-2017 13:55:01

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.408	1.406	0.002	0.537	8343344	2.56		102	25304	
2 Perfluorobutyric acid										
212.90 > 169.00	1.408	1.408	0.0	1.000	157767	0.0524		105	29.4	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.652	1.656	-0.004	1.000	121655	0.0538		108	121	
D 3 13C5-PFPeA										
267.90 > 223.00	1.652	1.656	-0.004	0.631	5077429	2.64		106	65052	
D 47 13C3-PFBS										
301.90 > 83.00	1.688	1.690	-0.002	0.644	100192	2.43		104	3529	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.688	1.692	-0.004	1.000	145382	0.0460		104	772	
298.90 > 99.00	1.688	1.692	-0.004	1.000	63657		2.28(1.25-3.74)		530	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.892	1.902	-0.010	1.000	276432	0.99		213	12007	
D 7 13C2 PFHxA										
315.00 > 270.00	1.933	1.938	-0.005	0.737	5414994	2.70		108	38333	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.933	1.939	-0.006	1.000	105604	0.0494		98.9	186	M
313.00 > 119.00	1.933	1.939	-0.006	1.000	9698		10.89(5.03-15.10)		157	
D 9 13C4-PFHpA										
367.00 > 322.00	2.252	2.272	-0.020	0.859	4976123	2.64		106	28156	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.265	2.273	-0.008	1.006	108973	0.0528		106	190	
363.00 > 169.00	2.252	2.273	-0.021	1.000	43735		2.49(1.13-3.40)		381	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.265	2.285	-0.020	0.994	134602	0.0477		105	1054	
399.00 > 99.00	2.278	2.285	-0.007	1.000	43048		3.13(1.50-4.49)		423	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.278	2.286	-0.008	0.869	6039306	2.57		109	36159	
D 12 M2-6:2FTS										
429.00 > 81.00	2.614	2.625	-0.011	0.997	1411454	1.38		58.0	28356	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.614	2.625	-0.011	1.000	463852	0.4961		105	9360	
D 14 13C4 PFOA										
417.00 > 372.00	2.621	2.637	-0.016	1.000	5782241	2.54		102	34662	
* 62 13C2-PFOA										
415.00 > 370.00	2.621	2.638	-0.017		5579643	2.50			51359	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.621	2.640	-0.019	1.000	137772	0.0560		112	124	
413.00 > 169.00	2.621	2.640	-0.019	1.000	75535		1.82(0.84-2.52)		281	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.628	2.644	-0.016	1.000	105157	0.0440		92.5	2143	
449.00 > 99.00	2.628	2.644	-0.016	1.000	28410		3.70(1.94-5.82)		1068	
D 18 13C4 PFOS										
503.00 > 80.00	2.991	3.014	-0.023	1.141	3872488	2.62		109	31717	
D 19 13C5 PFNA										
468.00 > 423.00	2.991	3.015	-0.024	1.141	3980798	2.64		106	32265	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	2.991	3.015	-0.024	1.000	80252	0.0466		100	201	
499.00 > 99.00	2.999	3.015	-0.016	1.003	19069		4.21(2.31-6.93)		204	
20 Perfluorononanoic acid										
463.00 > 419.00	2.999	3.017	-0.018	1.003	82478	0.0520		104	306	
463.00 > 169.00	2.999	3.017	-0.018	1.003	18735		4.40(1.90-5.69)		450	
D 21 13C8 FOSA										
506.00 > 78.00	3.353	3.354	-0.001	1.279	5472942	2.58		103	25522	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.353	3.356	-0.003	1.000	109799	0.0530		106	3878	
D 26 M2-8:2FTS										
529.00 > 81.00	3.345	3.368	-0.023	1.276	916686	2.70		113	17583	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.345	3.369	-0.024	1.000	206959	0.4442		92.7	8479	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.353	3.379	-0.026	1.000	62570	0.0493		98.5	409	
513.00 > 169.00	3.353	3.379	-0.026	1.000	10975		5.70(2.36-7.09)		183	
D 23 13C2 PFDA										
515.00 > 470.00	3.353	3.379	-0.026	1.279	3285678	2.67		107	29253	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.512	3.535	-0.023	1.340	1620339	2.77		111	16785	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.512	3.538	-0.026	1.000	336817	0.4977		99.5	2496	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.669	3.692	-0.023	1.000	48191	0.0501		104	2984	
599.00 > 99.00	3.669	3.692	-0.023	1.000	16537		2.91(1.39-4.16)		714	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.676	3.704	-0.028	1.403	1703439	2.92		117	7359	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.685	3.709	-0.024	1.406	2533706	2.71		108	28236	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.685	3.710	-0.025	1.002	335581	0.5103		102	7340	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.685	3.711	-0.026	1.000	46174	0.0502		100	293	
563.00 > 169.00	3.685	3.711	-0.026	1.000	9254		4.99(0.00-0.00)		862	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.851	3.850	0.001	1.469	1581167	2.54		102	3839	
35 MeFOSA										
512.00 > 169.00	3.851	3.856	-0.005	1.000	306738	0.4838		96.8	2755	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.977	4.008	-0.031	1.000	53833	0.0506		101	157	
613.00 > 169.00	3.977	4.008	-0.031	1.000	13612		3.95(2.13-6.40)		809	
D 36 13C2 PFDoA										
615.00 > 570.00	3.977	4.008	-0.031	1.518	2730456	2.73		109	33931	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.041	4.039	0.002	1.542	1489223	2.59		104	3807	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.049	4.047	0.002	1.002	313606	0.5098		102	2866	
41 Perfluorotridecanoic acid										R
663.00 > 619.00	4.249	4.275	-0.026	1.000	56622	0.0470		93.9	360	R
663.00 > 169.00	4.240	4.275	-0.035	0.998	13412		4.22(1.25-3.76)		795	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.491	4.519	-0.028	1.003	15775	0.0526		105	936	
713.00 > 219.00	4.477	4.519	-0.042	1.000	8852		1.78(0.71-2.13)		552	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.477	4.519	-0.042	1.708	2998359	2.77		111	19554	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.897	4.935	-0.038	1.000	136970	0.0495		99.1	116	
813.00 > 169.00	4.897	4.935	-0.038	1.000	24302		5.64(2.86-8.58)		941	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.897	4.935	-0.038	1.869	5357135	2.70		108	21066	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.255	5.299	-0.044	1.000	119839	0.0496		99.2	36.4	
913.00 > 169.00	5.248	5.299	-0.051	0.999	14409		8.32(0.00-0.00)		278	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

LCPFC_CCVL_00001 Amount Added: 1.00 Units: mL

Report Date: 15-Dec-2017 13:58:45 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171215-51814.b\2017.12.15LLA_005.d

Injection Date: 15-Dec-2017 11:49:33 Instrument ID: A8_N

Lims ID: CCVL

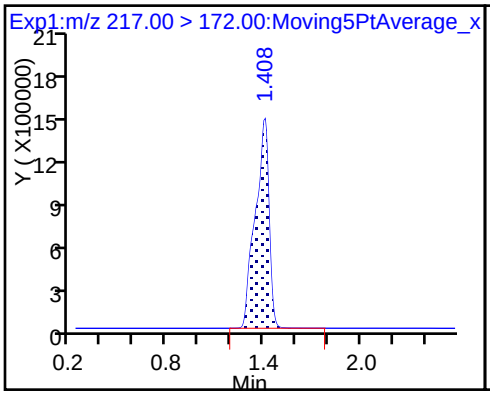
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 1

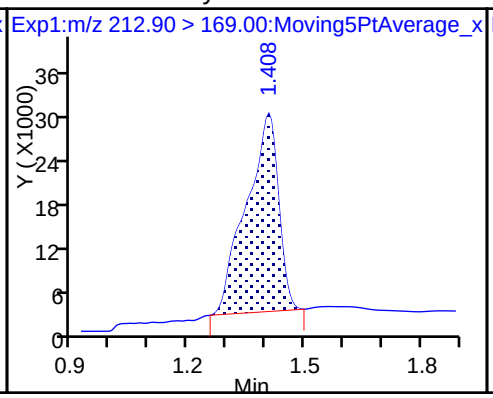
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

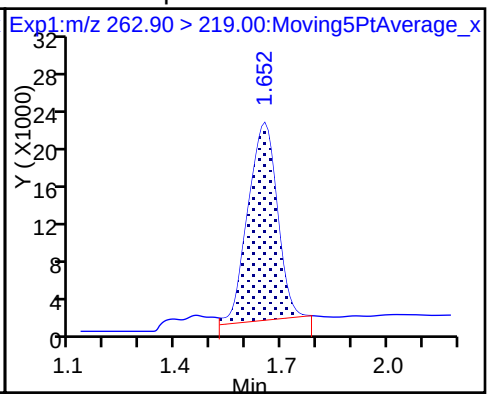
D 1 13C4 PFBA



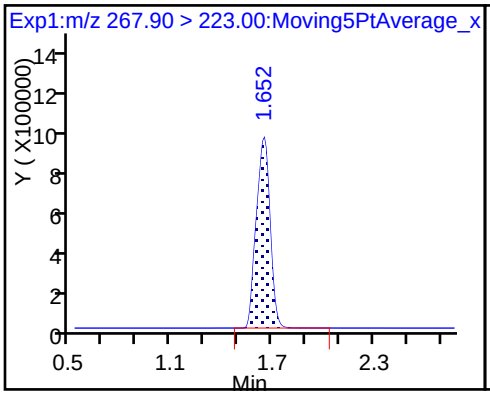
2 Perfluorobutyric acid



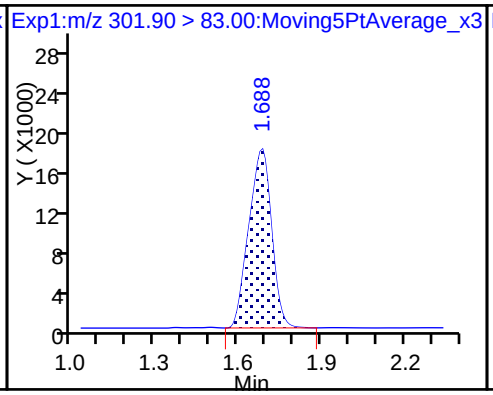
4 Perfluoropentanoic acid



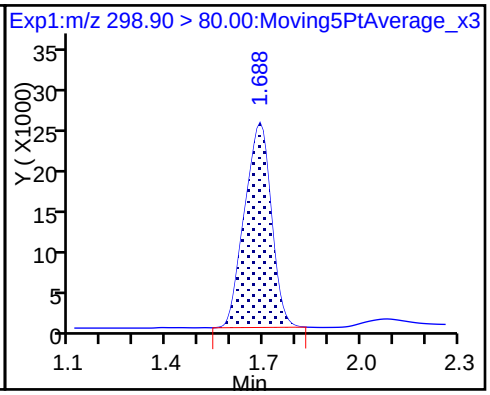
D 3 13C5-PFPeA



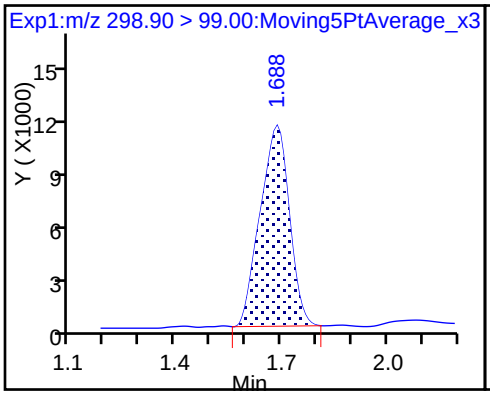
D 47 13C3-PFBS



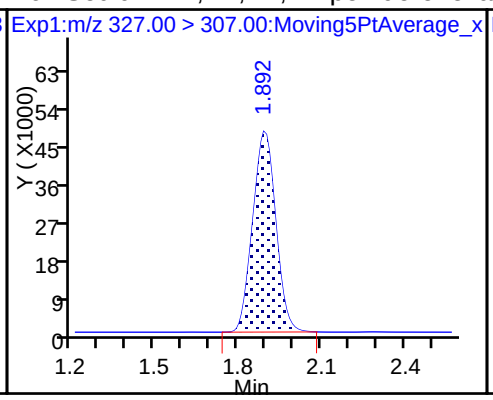
5 Perfluorobutanesulfonic acid



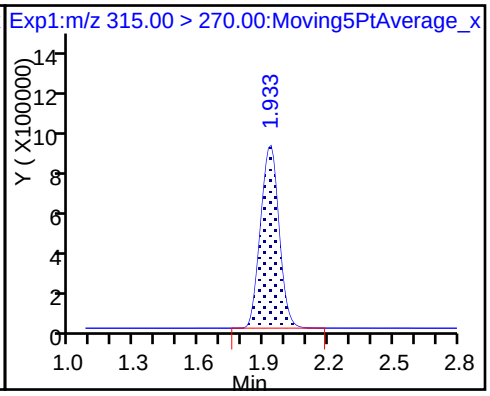
5 Perfluorobutanesulfonic acid



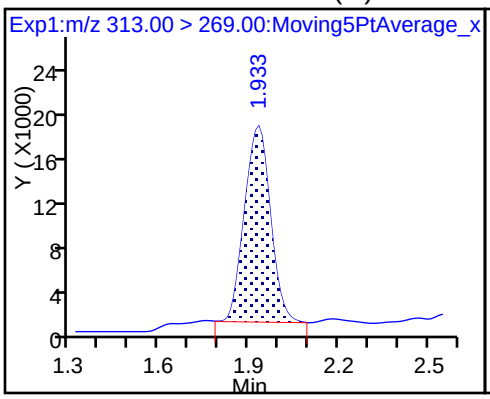
61 Sodium 1H,1H,2H,2H-perfluorohexa



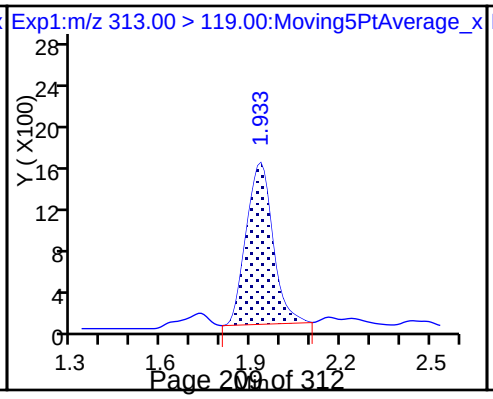
D 7 13C2 PFHxA



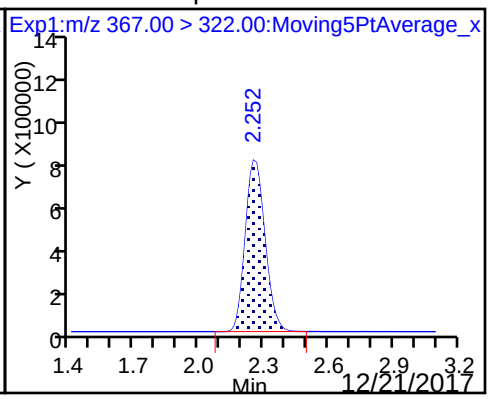
6 Perfluorohexanoic acid (M)



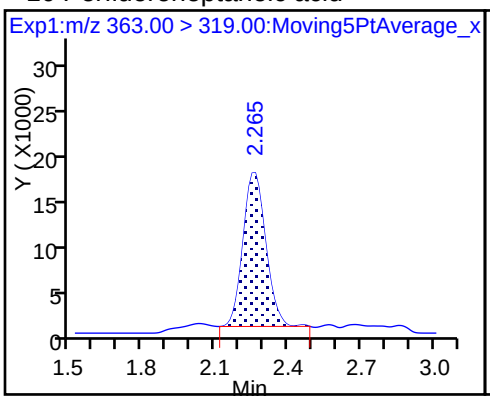
6 Perfluorohexanoic acid



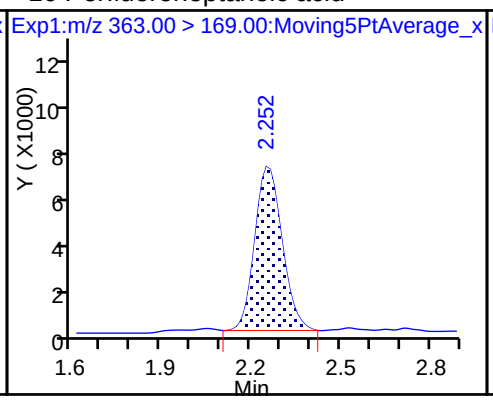
D 9 13C4-PFHpA



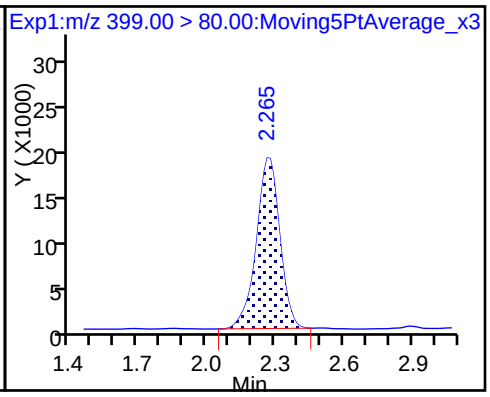
10 Perfluoroheptanoic acid



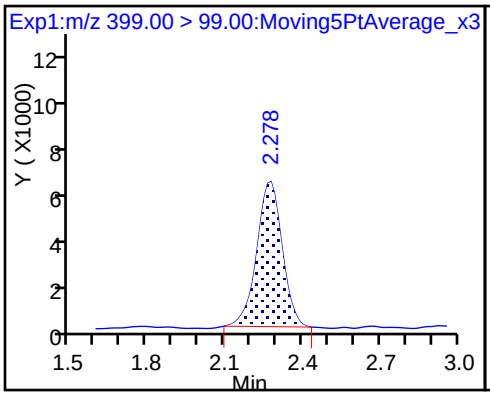
10 Perfluoroheptanoic acid



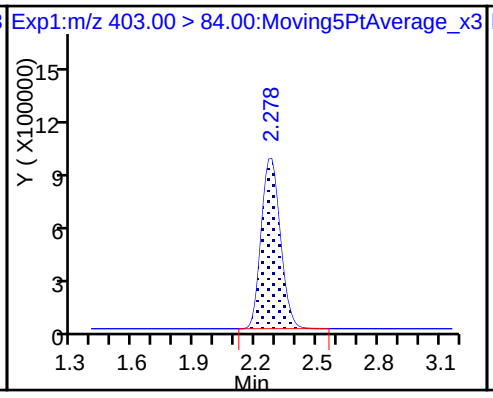
8 Perfluorohexanesulfonic acid



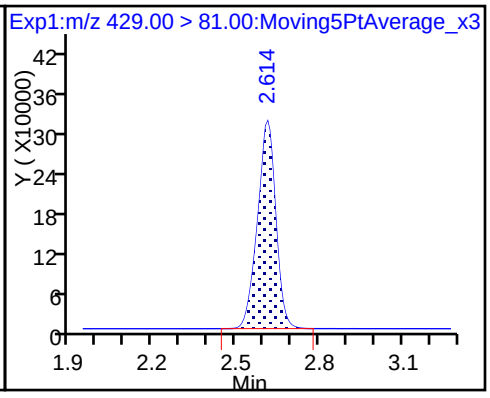
8 Perfluorohexanesulfonic acid



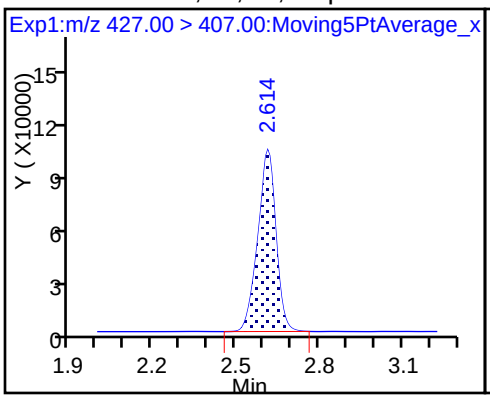
D 11 18O2 PFHxS



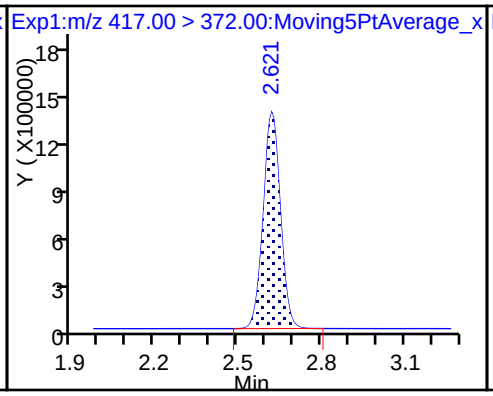
D 12 M2-6:2FTS



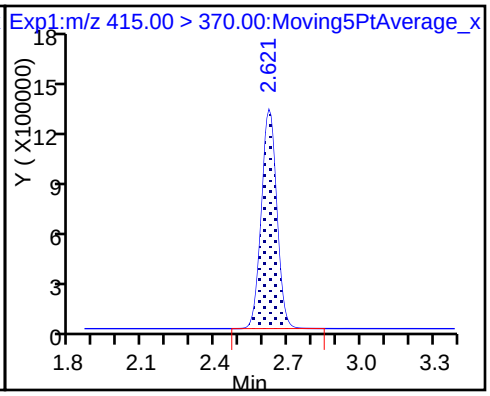
13 Sodium 1H,1H,2H,2H-perfluorooctane



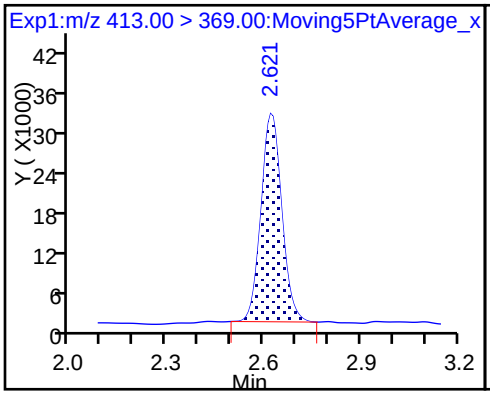
D 14 13C4 PFOA



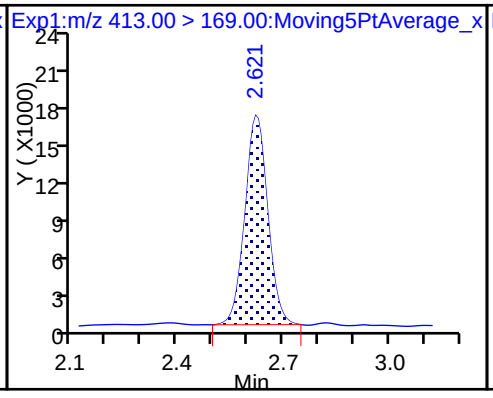
* 62 13C2-PFOA



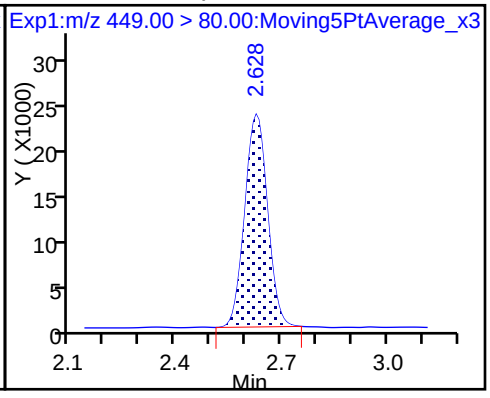
15 Perfluorooctanoic acid



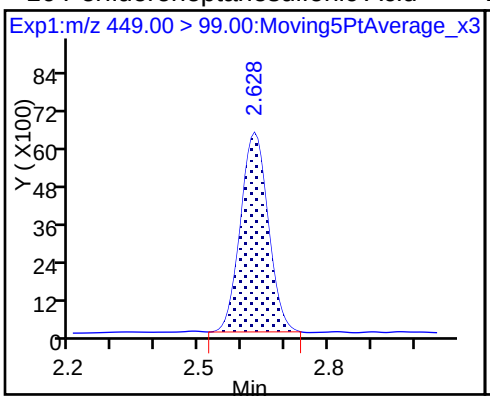
15 Perfluorooctanoic acid



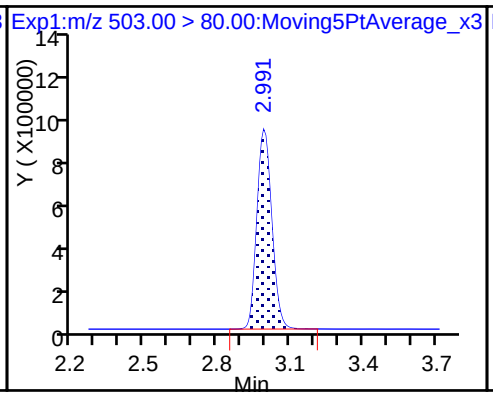
16 Perfluoroheptanesulfonic Acid



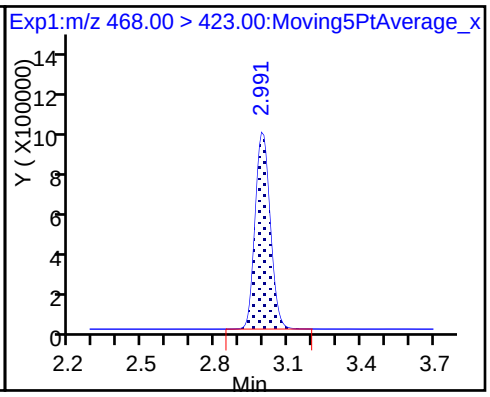
16 Perfluoroheptanesulfonic Acid



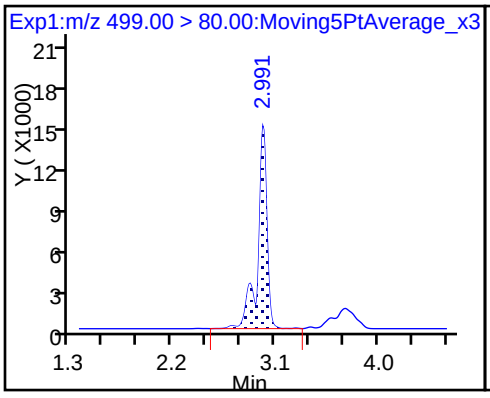
D 18 13C4 PFOS



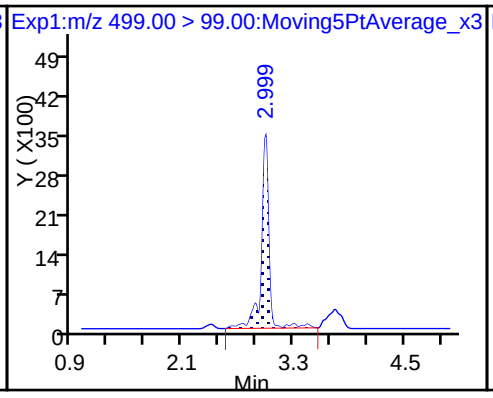
D 19 13C5 PFNA



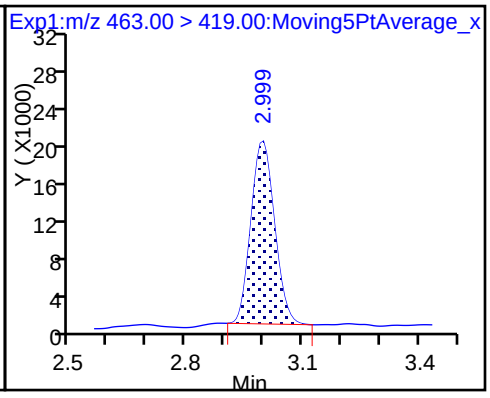
17 Perfluorooctane sulfonic acid



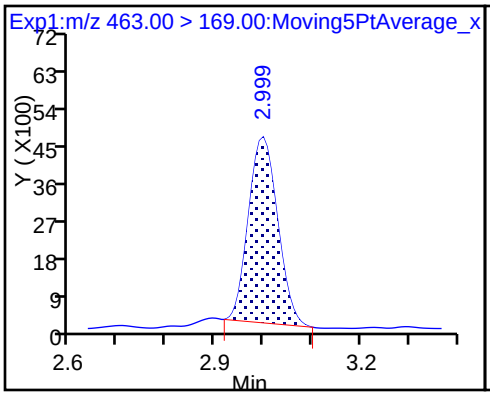
17 Perfluorooctane sulfonic acid



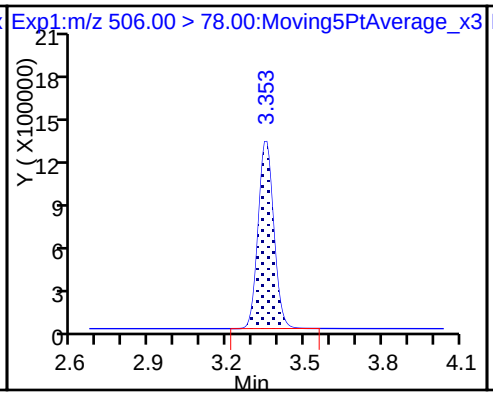
20 Perfluorononanoic acid



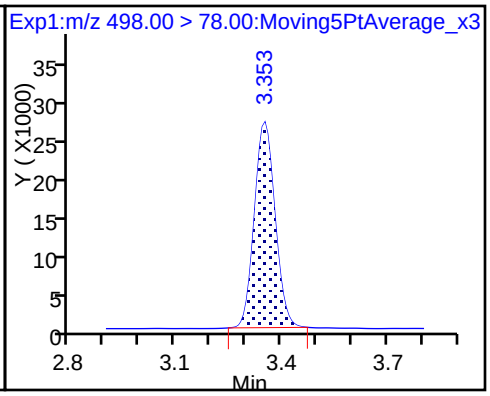
20 Perfluorononanoic acid



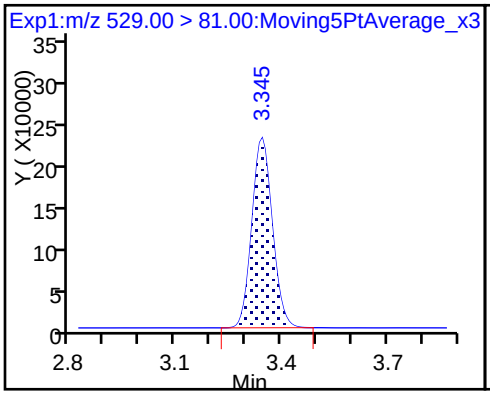
D 21 13C8 FOSA



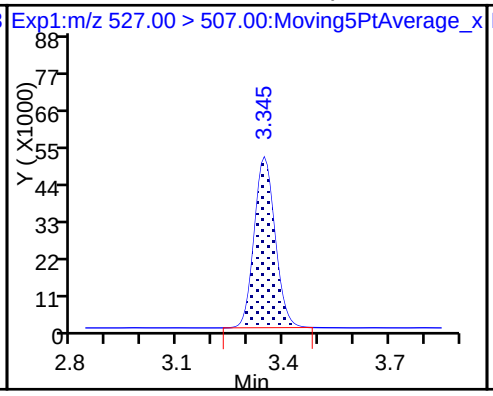
22 Perfluorooctane Sulfonamide



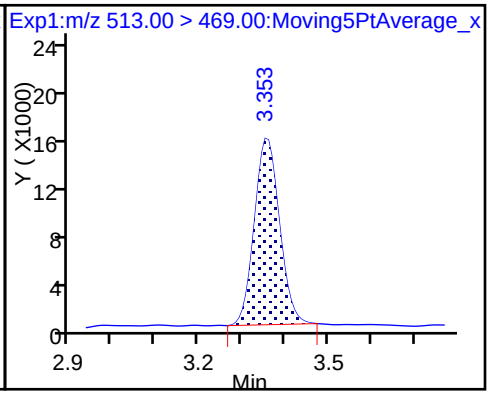
D 26 M2-8:2FTS



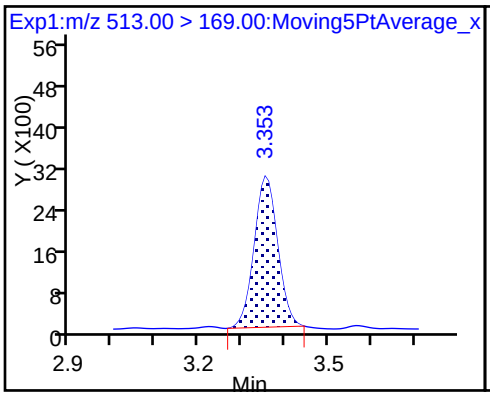
25 Sodium 1H,1H,2H,2H-perfluorodecan



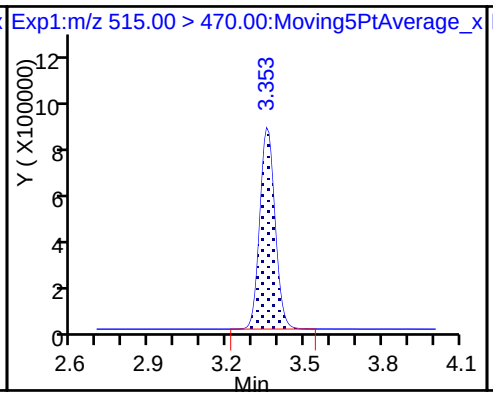
24 Perfluorodecanoic acid



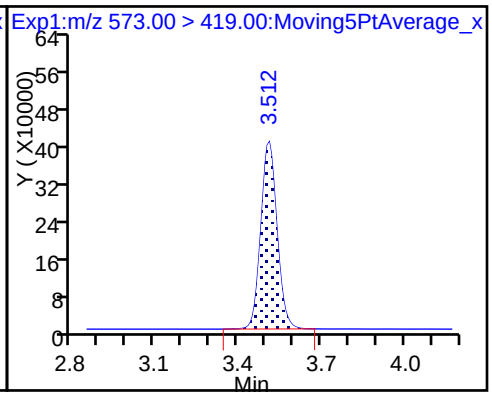
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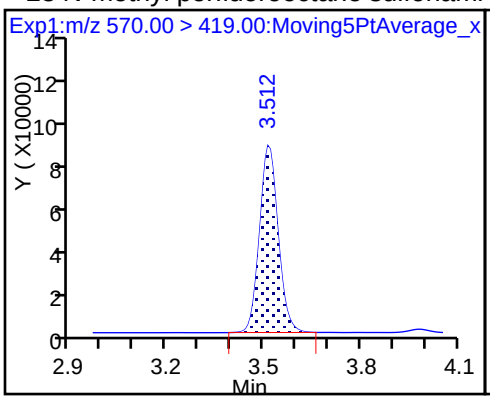
D 23 13C2 PFDA



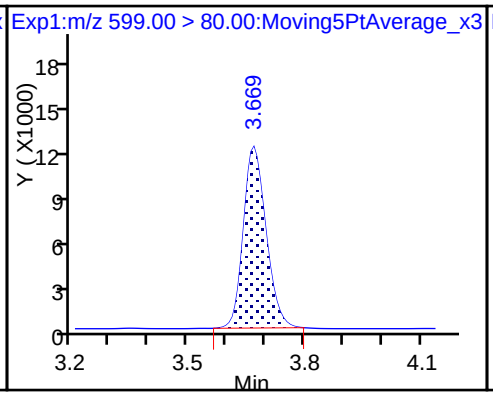
D 27 d3-NMeFOSAA



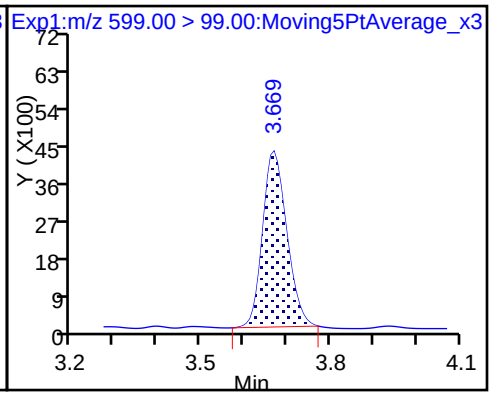
28 N-methyl perfluorooctane sulfonami



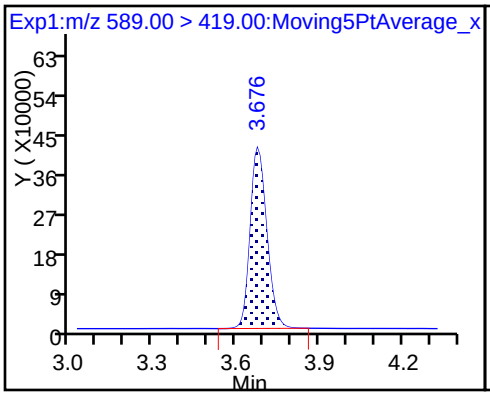
29 Perfluorodecane Sulfonic acid



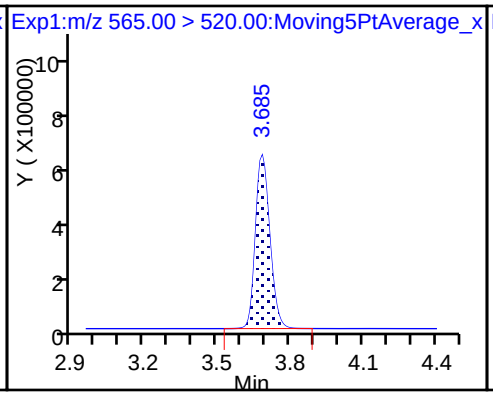
29 Perfluorodecane Sulfonic acid



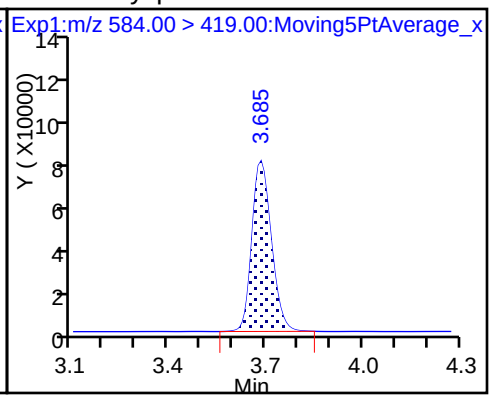
D 32 d5-NEtFOSAA



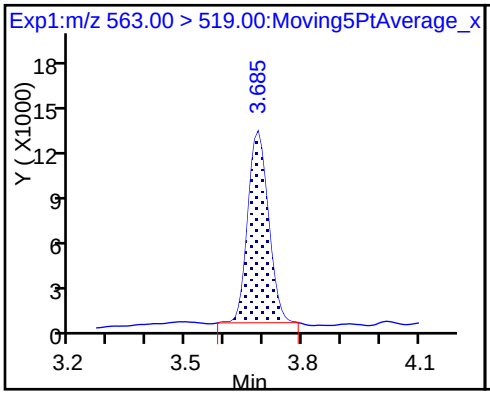
D 30 13C2 PFUnA



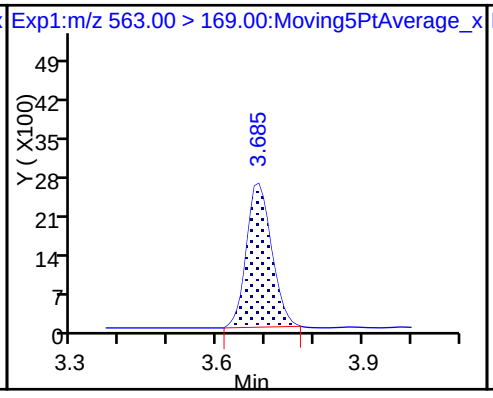
33 N-ethyl perfluorooctane sulfonamid



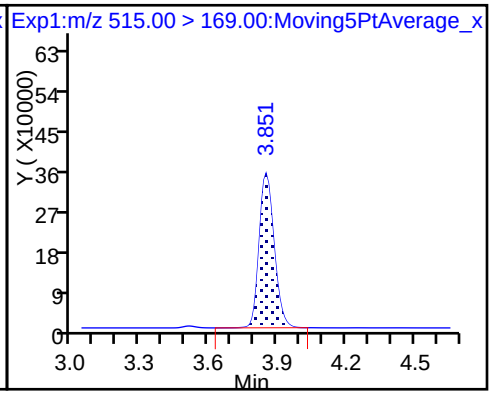
31 Perfluoroundecanoic acid



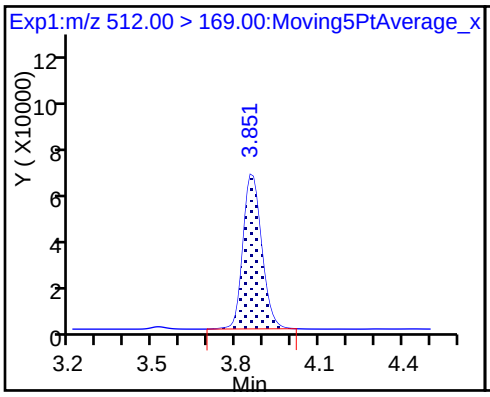
31 Perfluoroundecanoic acid



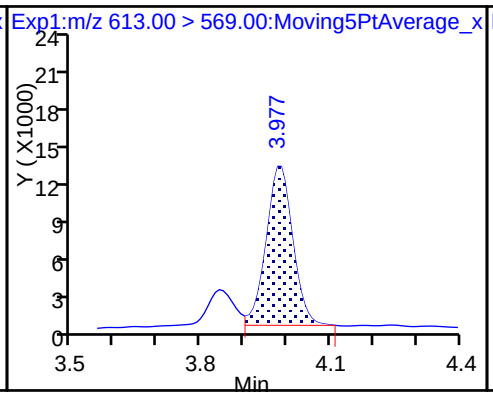
D 34 d-N-MeFOSA-M



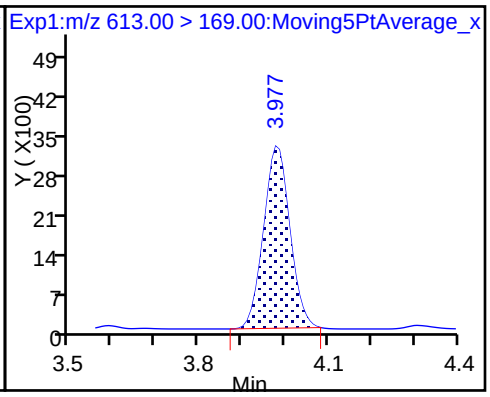
35 MeFOSA



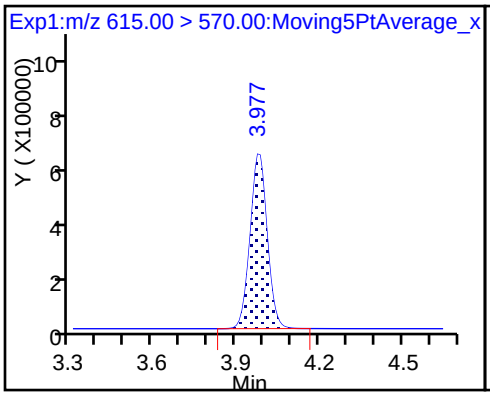
37 Perfluorododecanoic acid



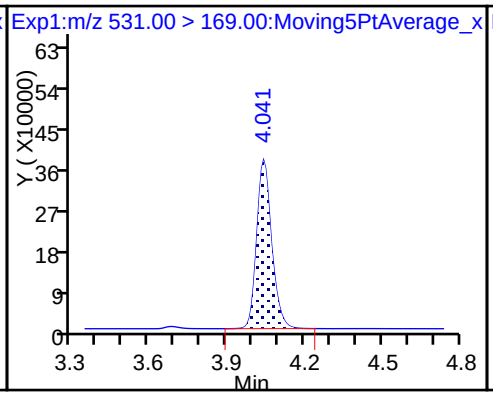
37 Perfluorododecanoic acid



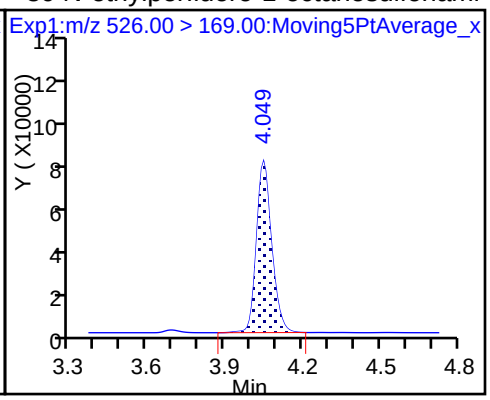
D 36 13C2 PFDoA



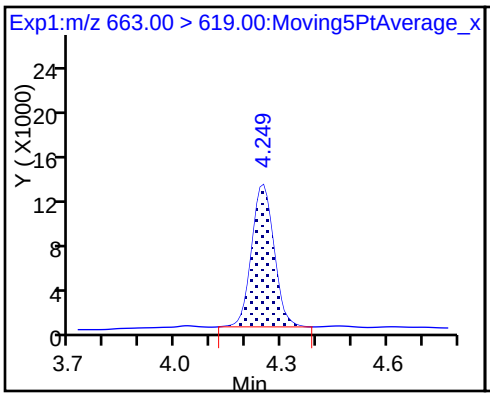
D 38 d-N-EtFOSA-M



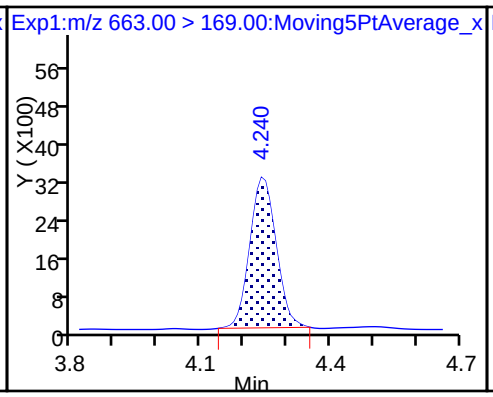
39 N-ethylperfluoro-1-octanesulfonami



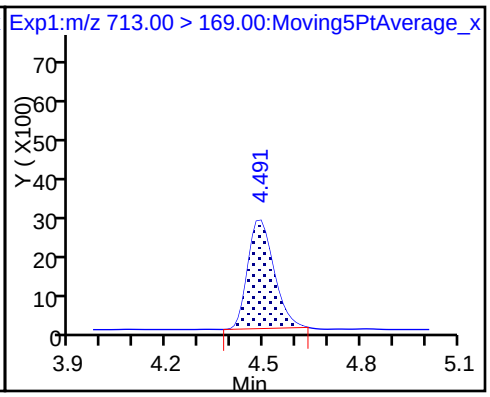
41 Perfluorotridecanoic acid



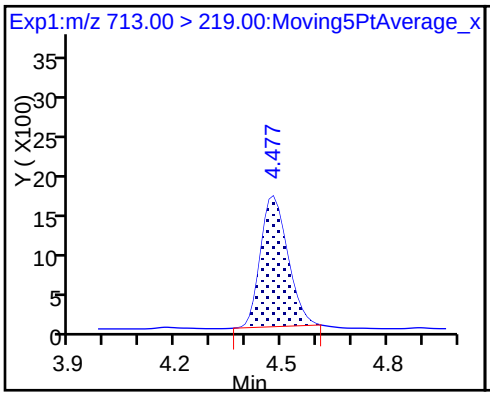
41 Perfluorotridecanoic acid



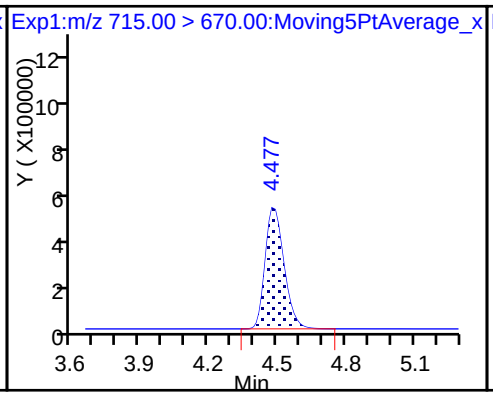
42 Perfluorotetradecanoic acid



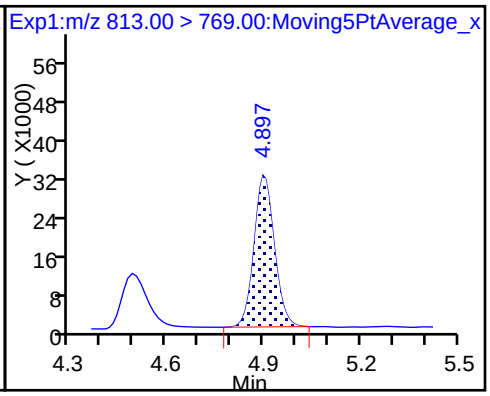
42 Perfluorotetradecanoic acid



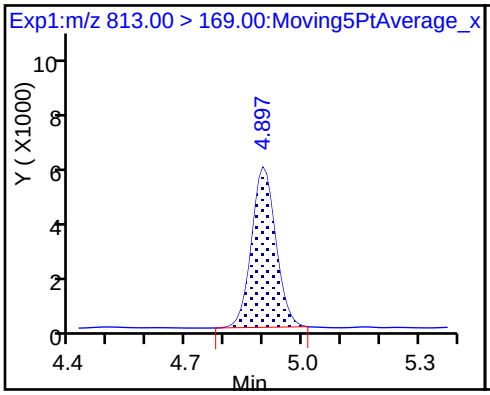
D 43 13C2-PFTeDA



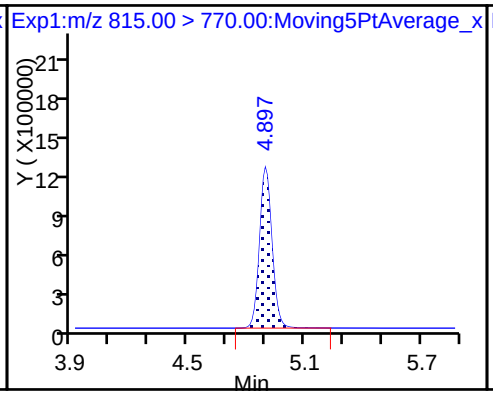
45 Perfluorohexadecanoic acid



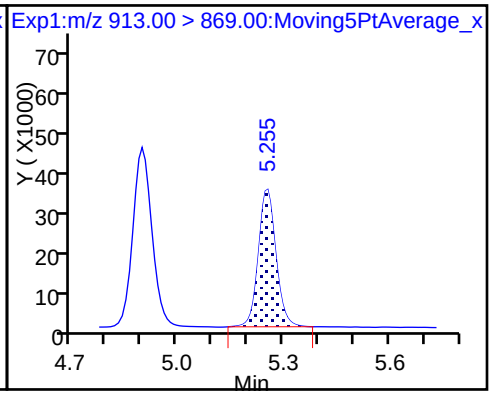
45 Perfluorohexadecanoic acid



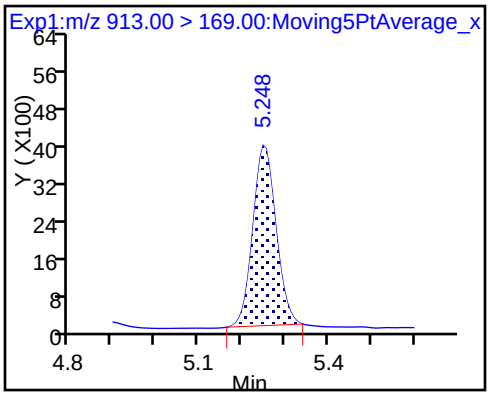
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

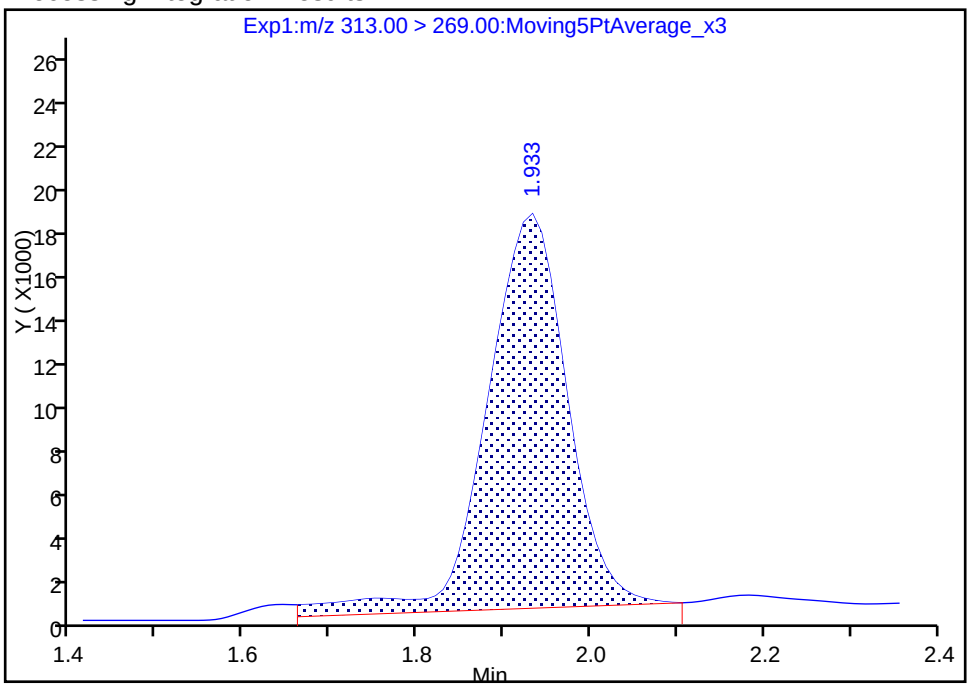
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171215-51814.b\2017.12.15LLA_005.d
Injection Date: 15-Dec-2017 11:49:33 Instrument ID: A8_N
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

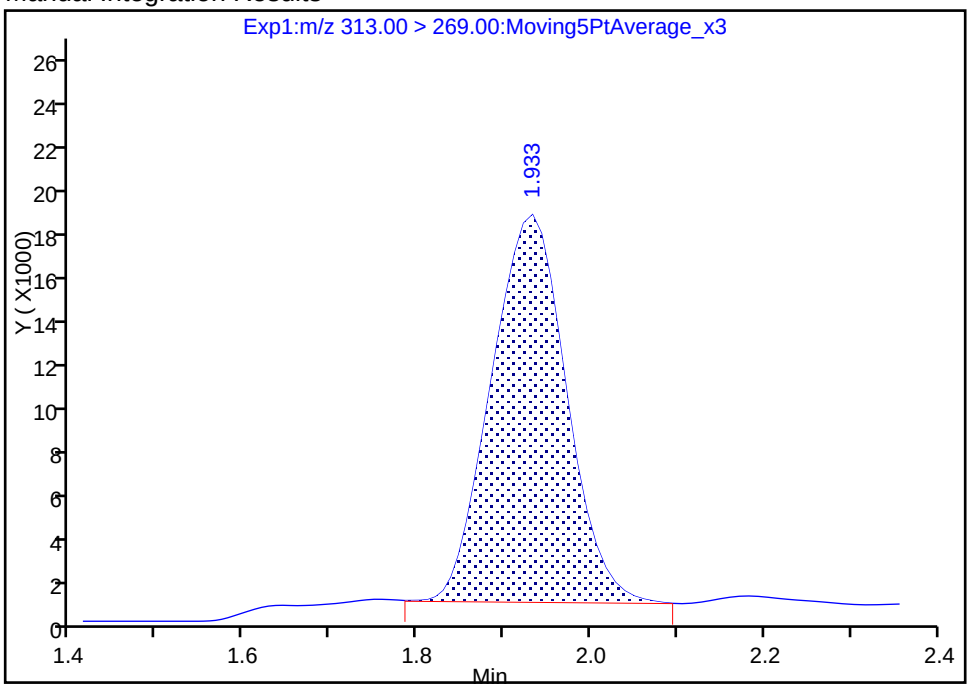
Processing Integration Results

RT: 1.93
Area: 115591
Amount: 0.054111
Amount Units: ng/ml



Manual Integration Results

RT: 1.93
Area: 105604
Amount: 0.049436
Amount Units: ng/ml



Reviewer: roycea, 15-Dec-2017 13:54:34
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Lab Sample ID: CCV 320-200243/1 Calibration Date: 12/15/2017 20:18

Instrument ID: A8_N Calib Start Date: 12/14/2017 15:52

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 12/14/2017 16:55

Lab File ID: 2017.12.15LLBLLA_001.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9017	0.9374		1.04	1.00	4.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.112	1.125		1.01	1.00	1.1	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	73.33	78.19		0.943	0.884	6.6	50.0
4:2 FTS	AveID	0.4676	0.5992		1.20	0.934	28.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9862	0.9902		1.00	1.00	0.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.037	1.022		0.986	1.00	-1.4	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.034		0.853	0.910	-6.3	40.0
6:2FTS	AveID	1.573	1.607		0.968	0.948	2.1	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.475	1.514		0.977	0.952	2.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.063	1.068		1.00	1.00	0.4	40.0
Perfluorononanoic acid (PFNA)	AveID	0.996	1.018		1.02	1.00	2.2	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.063	1.069		0.933	0.928	0.6	40.0
8:2FTS	AveID	1.217	1.265		0.996	0.958	3.9	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9462	1.004		1.06	1.00	6.1	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9664	0.9606		0.994	1.00	-0.6	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.044	1.066		1.02	1.00	2.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.5939	0.6283		1.02	0.964	5.8	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9651	0.9321		0.966	1.00	-3.4	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9075	0.9511		1.05	1.00	4.8	40.0
MeFOSA	AveID	1.002	1.023		1.02	1.00	2.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9736	1.025		1.05	1.00	5.3	40.0
N-EtFOSA-M	AveID	1.033	1.084		1.05	1.00	4.9	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.104	1.008		0.913	1.00	-8.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2499	0.2385		0.955	1.00	-4.5	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9012		1.00	1.00	0.2	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.128	1.130		1.00	1.00	0.2	50.0
13C4 PFBA	Ave	1.463	1.389		2.37	2.50	-5.0	50.0
13C5 PFPeA	Ave	0.8617	0.8360		2.43	2.50	-3.0	50.0
13C3-PFBS	Ave	0.0185	0.0172		2.16	2.33	-7.0	50.0
13C2 PFHxA	Ave	0.9002	0.8964		2.49	2.50	-0.4	50.0
13C4-PFHpA	Ave	0.8445	0.8558		2.53	2.50	1.3	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Lab Sample ID: CCV 320-200243/1 Calibration Date: 12/15/2017 20:18

Instrument ID: A8_N Calib Start Date: 12/14/2017 15:52

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 12/14/2017 16:55

Lab File ID: 2017.12.15LLBLLA_001.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
18O2 PFHxS	Ave	1.051	1.047		2.35	2.37	-0.5	50.0
M2-6:2FTS	Ave	0.4590	0.4197		2.17	2.38	-8.6	40.0
13C4 PFOA	Ave	1.021	1.008		2.47	2.50	-1.2	50.0
13C4 PFOS	Ave	0.6631	0.6522		2.35	2.39	-1.6	50.0
13C5 PFNA	Ave	0.6758	0.6628		2.45	2.50	-1.9	50.0
13C8 FOSA	Ave	0.9504	0.9076		2.39	2.50	-4.5	50.0
M2-8:2FTS	Ave	0.1522	0.1497		2.35	2.40	-1.7	40.0
13C2 PFDA	Ave	0.5506	0.5602		2.54	2.50	1.7	50.0
d3-NMeFOSAA	Ave	0.2625	0.2592		2.47	2.50	-1.3	50.0
d5-NEtFOSAA	Ave	0.2616	0.2702		2.58	2.50	3.3	50.0
13C2 PFUnA	Ave	0.4188	0.4091		2.44	2.50	-2.3	50.0
d-N-MeFOSA-M	Ave	0.2786	0.2642		2.37	2.50	-5.2	50.0
13C2 PFDoA	Ave	0.4477	0.4308		2.41	2.50	-3.8	50.0
d-N-EtFOSA-M	Ave	0.2578	0.2389		2.32	2.50	-7.3	50.0
13C2-PFTeDA	Ave	0.4855	0.4924		2.54	2.50	1.4	50.0
13C2-PFHxDA	Ave	0.8900	0.8589		2.41	2.50	-3.5	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_001.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 15-Dec-2017 20:18:01 ALS Bottle#: 13 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub18

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 20-Dec-2017 11:36:16 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK050

First Level Reviewer: hannigana Date: 20-Dec-2017 11:36:16

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.400	1.406	-0.006	0.534	8470705	2.37		95.0	25440	
2 Perfluorobutyric acid										
212.90 > 169.00	1.400	1.408	-0.008	1.000	3176168	1.04		104	656	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.651	1.656	-0.005	1.000	2293921	1.01		101	2164	
D 3 13C5-PFPeA										
267.90 > 223.00	1.651	1.656	-0.005	0.630	5097302	2.43		97.0	57928	
D 47 13C3-PFBS										
301.90 > 83.00	1.678	1.690	-0.012	0.640	97509	2.16		93.0	2797	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.686	1.692	-0.006	1.005	2898838	0.9426		107	13445	
298.90 > 99.00	1.686	1.692	-0.006	1.005	1251703		2.32(1.25-3.74)		10906	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.890	1.902	-0.012	1.000	572915	1.20		128	25646	
D 7 13C2 PFHxA										
315.00 > 270.00	1.930	1.938	-0.008	0.737	5465695	2.49		99.6	41806	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.930	1.939	-0.009	1.000	2164772	1.00		100	5400	
313.00 > 119.00	1.930	1.939	-0.009	1.000	205753		10.52(5.03-15.10)		4373	
D 9 13C4-PFHpA										
367.00 > 322.00	2.249	2.272	-0.023	0.858	5218429	2.53		101	33161	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.249	2.273	-0.024	1.000	2133946	0.9863		98.6	4125	
363.00 > 169.00	2.249	2.273	-0.024	1.000	815018		2.62(1.13-3.40)		5637	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.262	2.285	-0.023	1.000	2402912	0.8525		93.7	10075	
399.00 > 99.00	2.262	2.285	-0.023	1.000	784697		3.06(1.50-4.49)		5537	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.262	2.286	-0.024	0.863	6036886	2.35		99.5	35018	
D 12 M2-6:2FTS										
429.00 > 81.00	2.606	2.625	-0.019	0.995	2431131	2.17		91.4	54160	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.606	2.625	-0.019	1.000	1559372	0.9683		102	37108	
D 14 13C4 PFOA										
417.00 > 372.00	2.620	2.637	-0.017	1.000	6147187	2.47		98.8	39396	
* 62 13C2-PFOA										
415.00 > 370.00	2.620	2.638	-0.018		6097450	2.50			49133	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.620	2.640	-0.020	1.000	2625340	1.00		100	2681	
413.00 > 169.00	2.620	2.640	-0.020	1.000	1391519		1.89(0.84-2.52)		7551	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.620	2.644	-0.024	1.000	2292381	0.9772		103	23860	
449.00 > 99.00	2.620	2.644	-0.024	1.000	607055		3.78(1.94-5.82)		11617	
D 18 13C4 PFOS										
503.00 > 80.00	2.991	3.014	-0.023	1.142	3801723	2.35		98.4	24994	
D 19 13C5 PFNA										
468.00 > 423.00	2.991	3.015	-0.024	1.142	4041378	2.45		98.1	29949	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	2.991	3.015	-0.024	1.000	1578051	0.9334		101	3120	
499.00 > 99.00	2.991	3.015	-0.024	1.000	353012		4.47(2.31-6.93)		2882	
20 Perfluorononanoic acid										
463.00 > 419.00	2.991	3.017	-0.026	1.000	1645934	1.02		102	6591	
463.00 > 169.00	2.991	3.017	-0.026	1.000	397223		4.14(1.90-5.69)		10408	
D 21 13C8 FOSA										
506.00 > 78.00	3.338	3.354	-0.016	1.274	5534020	2.39		95.5	26706	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.346	3.356	-0.010	1.002	2222213	1.06		106	17344	
D 26 M2-8:2FTS										
529.00 > 81.00	3.338	3.368	-0.030	1.274	874192	2.35		98.3	15424	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.346	3.369	-0.023	1.002	442431	1.00		104	13783	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.354	3.379	-0.025	1.000	1312376	0.99		99.4	7930	
513.00 > 169.00	3.354	3.379	-0.025	1.000	240042		5.47(2.36-7.09)		1528	
D 23 13C2 PFDA										
515.00 > 470.00	3.354	3.379	-0.025	1.280	3415639	2.54		102	28464	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.506	3.535	-0.029	1.338	1580352	2.47		98.7	18606	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.513	3.538	-0.025	1.002	673624	1.02		102	4210	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.670	3.692	-0.022	1.000	963403	1.02		106	26793	
599.00 > 99.00	3.670	3.692	-0.022	1.000	320480		3.01(1.39-4.16)		11507	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.677	3.704	-0.027	1.403	1647483	2.58		103	6958	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.686	3.709	-0.023	1.407	2494599	2.44		97.7	37317	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.686	3.710	-0.024	1.002	614246	0.9658		96.6	11280	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.686	3.711	-0.025	1.000	949015	1.05		105	5933	
563.00 > 169.00	3.686	3.711	-0.025	1.000	200862		4.72(0.00-0.00)		18231	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.842	3.850	-0.008	1.466	1611030	2.37		94.8	3983	
35 MeFOSA										
512.00 > 169.00	3.842	3.856	-0.014	1.000	659130	1.02		102	3785	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.978	4.008	-0.030	1.000	1076822	1.05		105	3184	
613.00 > 169.00	3.978	4.008	-0.030	1.000	257886		4.18(2.13-6.40)		12117	
D 36 13C2 PFDoA										
615.00 > 570.00	3.978	4.008	-0.030	1.518	2626778	2.41		96.2	32892	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.034	4.039	-0.005	1.539	1456719	2.32		92.7	3201	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.042	4.047	-0.005	1.002	631401	1.05		105	2652	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.249	4.275	-0.026	1.000	1058763	0.9129		91.3	5664	
663.00 > 169.00	4.249	4.275	-0.026	1.000	353869		2.99(1.25-3.76)		16303	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.477	4.519	-0.042	1.000	286450	0.9546		95.5	9963	
713.00 > 219.00	4.477	4.519	-0.042	1.000	205318		1.40(0.71-2.13)		7351	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.477	4.519	-0.042	1.709	3002083	2.54		101	22690	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.907	4.935	-0.028	1.000	1887677	1.00		100	1572	
813.00 > 169.00	4.907	4.935	-0.028	1.000	330985		5.70(2.86-8.58)		5116	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.907	4.935	-0.028	1.873	5236852	2.41		96.5	20594	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.263	5.299	-0.036	1.000	2368009	1.00		100	600	
913.00 > 169.00	5.256	5.299	-0.043	0.999	291734		8.12(0.00-0.00)		1845	

Reagents:

LCPFC_LL4_00002 Amount Added: 1.00 Units: mL

Report Date: 20-Dec-2017 11:36:17 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_001.d

Injection Date: 15-Dec-2017 20:18:01 Instrument ID: A8_N

Lims ID: CCV L4

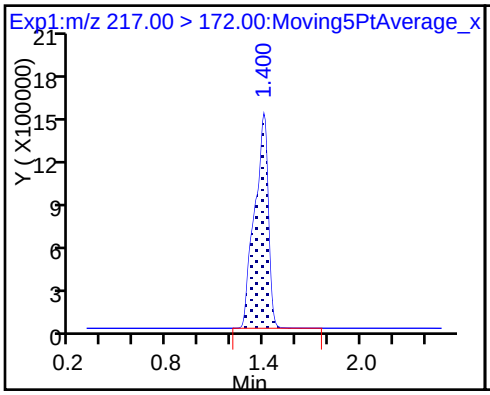
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 1

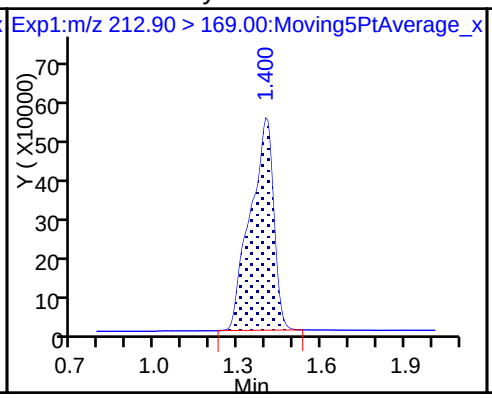
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

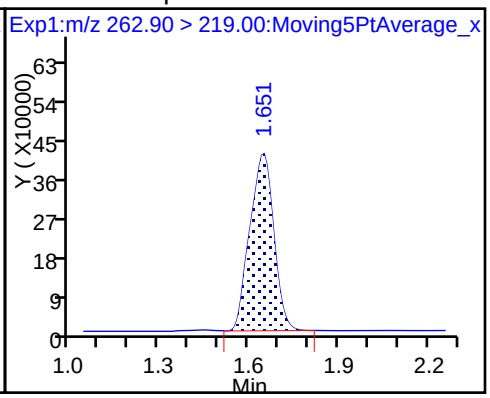
D 1 13C4 PFBA



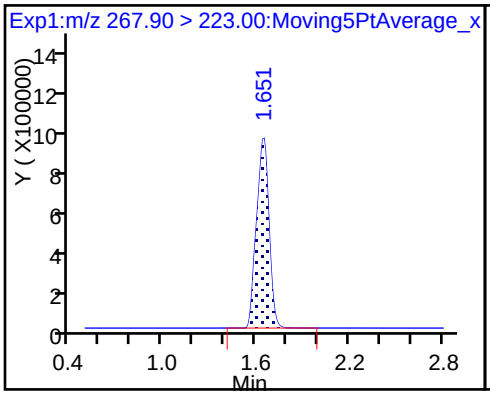
2 Perfluorobutyric acid



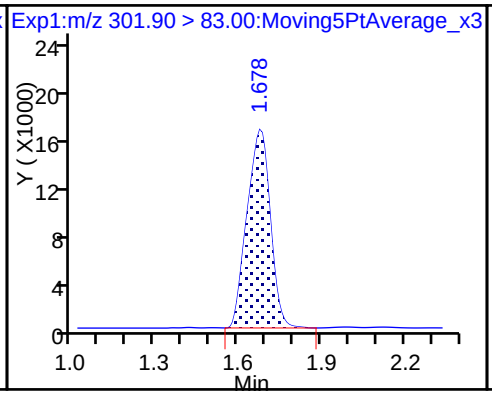
4 Perfluoropentanoic acid



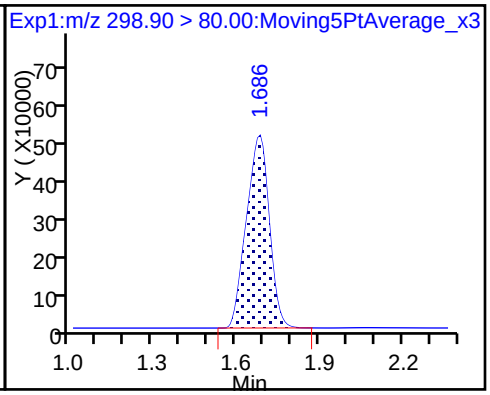
D 3 13C5-PFPeA



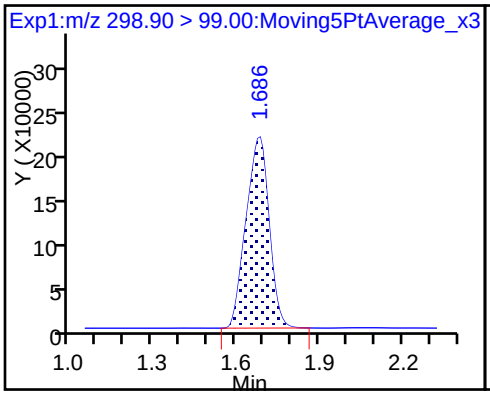
D 47 13C3-PFBS



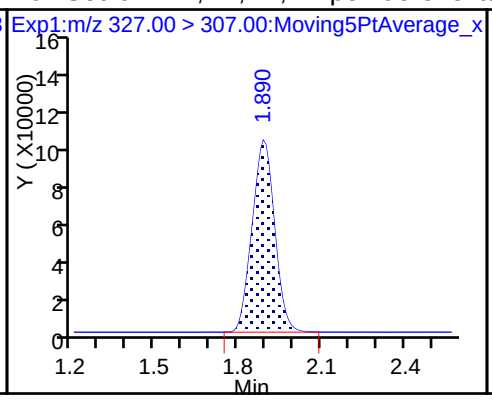
5 Perfluorobutanesulfonic acid



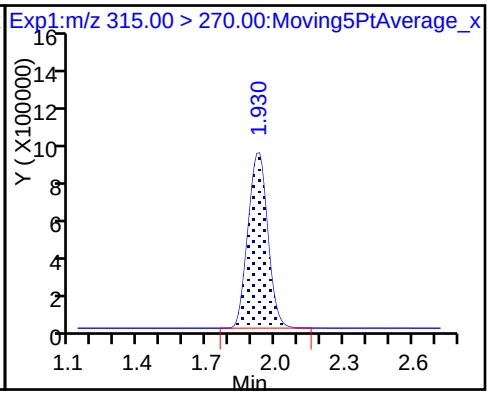
5 Perfluorobutanesulfonic acid



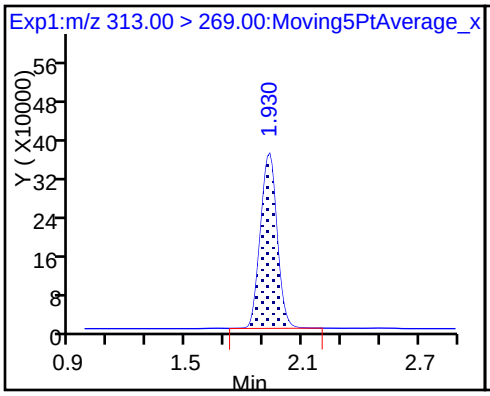
61 Sodium 1H,1H,2H,2H-perfluorohexa



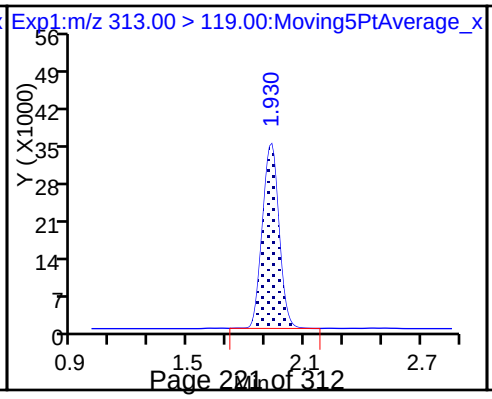
D 7 13C2 PFHxA



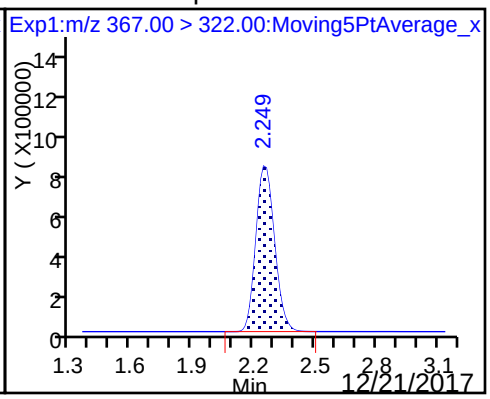
6 Perfluorohexanoic acid



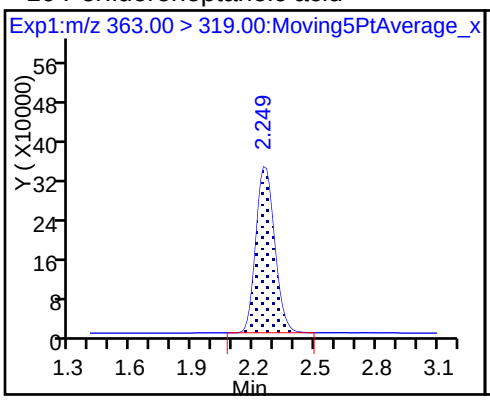
6 Perfluorohexanoic acid



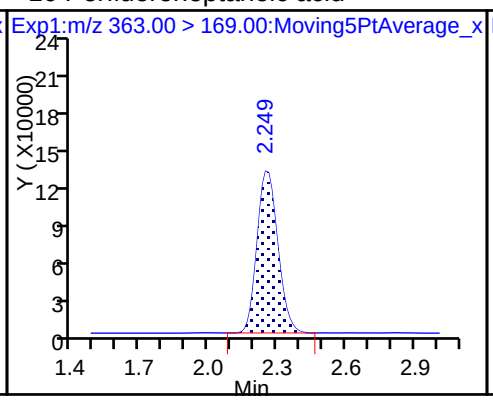
D 9 13C4-PFHpA



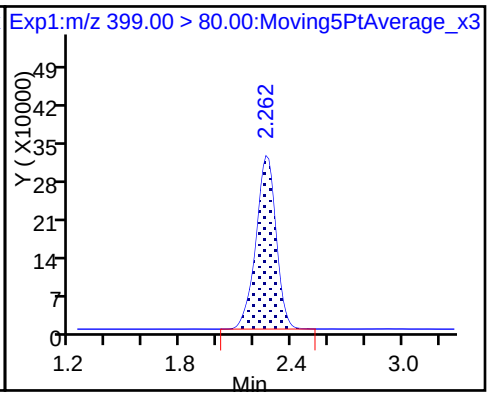
10 Perfluoroheptanoic acid



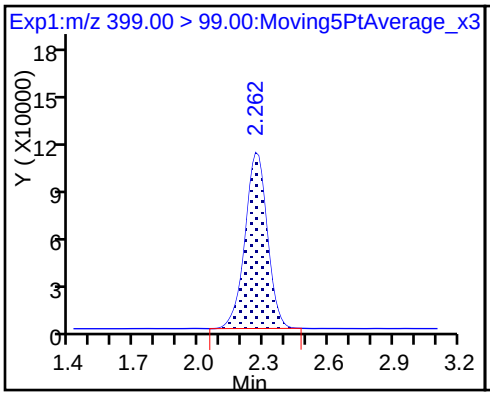
10 Perfluoroheptanoic acid



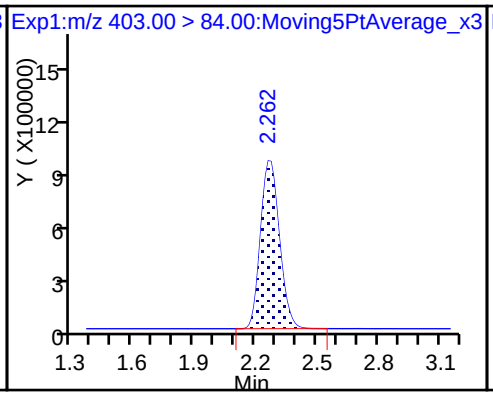
8 Perfluorohexanesulfonic acid



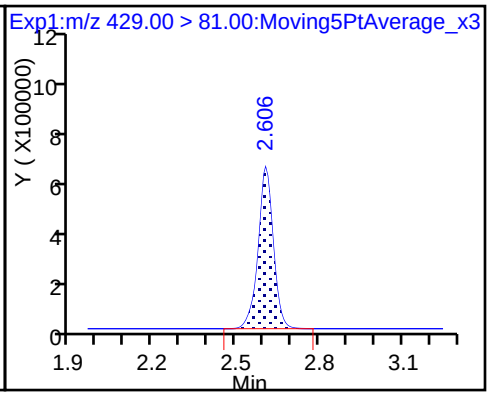
8 Perfluorohexanesulfonic acid



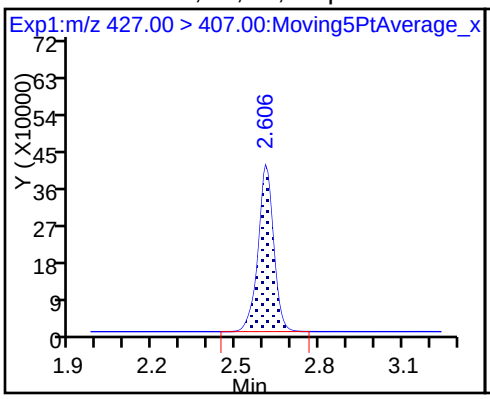
D 11 18O2 PFHxS



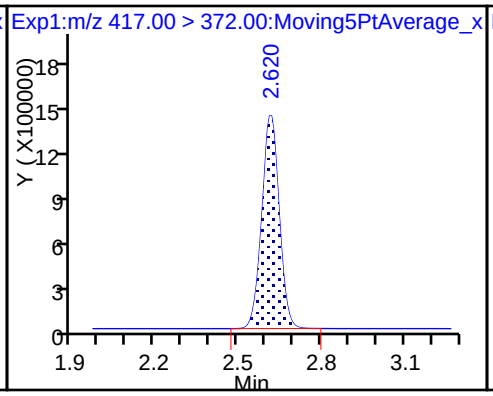
D 12 M2-6:2FTS



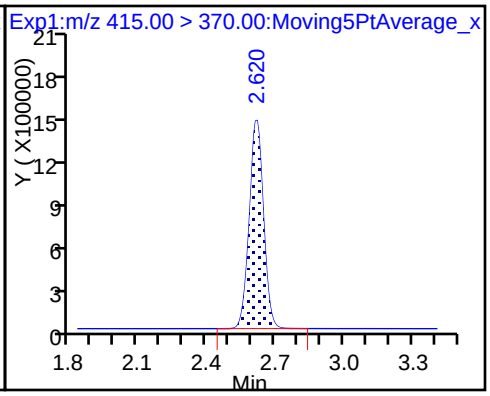
13 Sodium 1H,1H,2H,2H-perfluorooctane



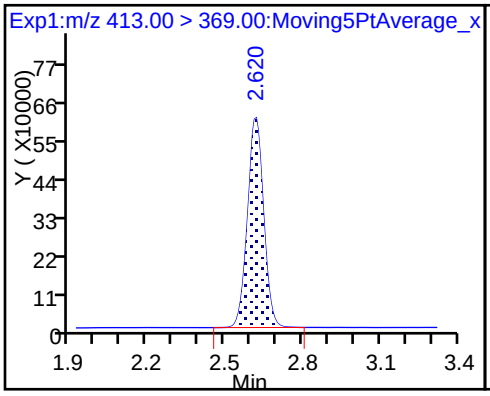
D 14 13C4 PFOA



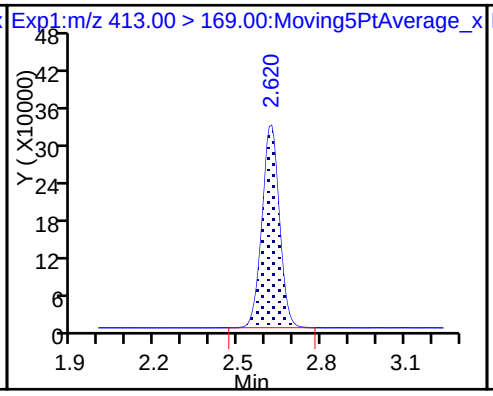
* 62 13C2-PFOA



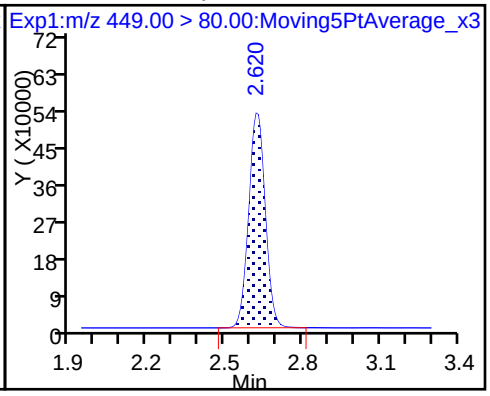
15 Perfluorooctanoic acid



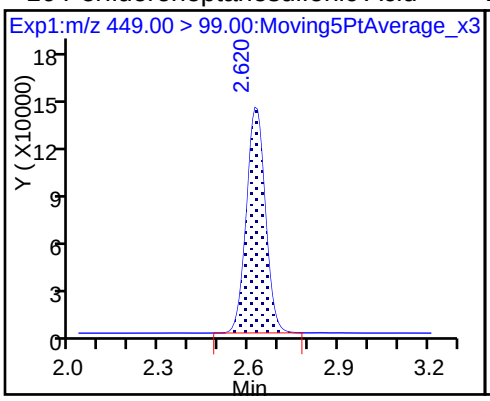
15 Perfluorooctanoic acid



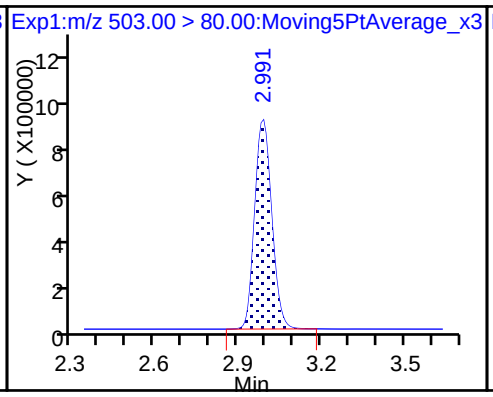
16 Perfluoroheptanesulfonic Acid



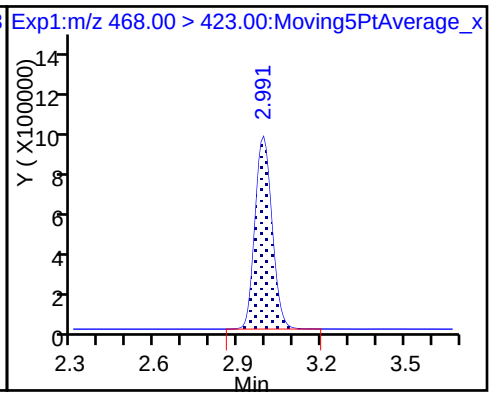
16 Perfluoroheptanesulfonic Acid



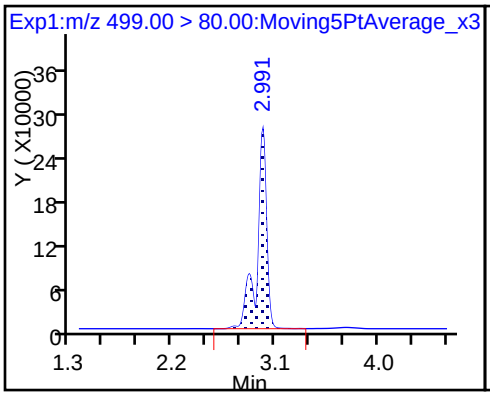
D 18 13C4 PFOS



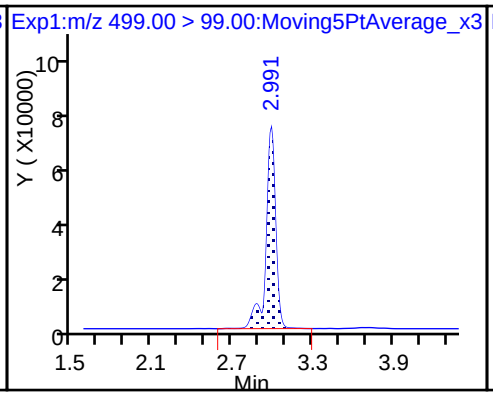
D 19 13C5 PFNA



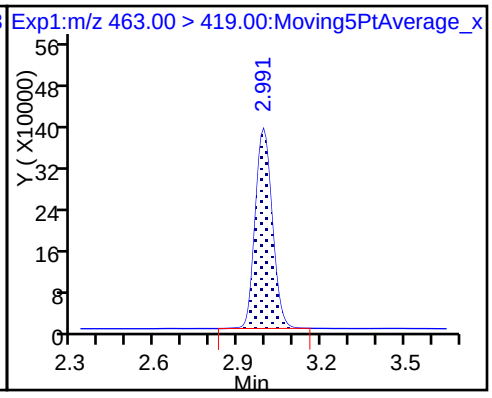
17 Perfluorooctane sulfonic acid



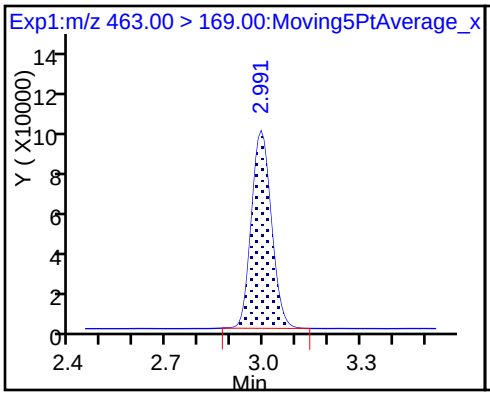
17 Perfluorooctane sulfonic acid



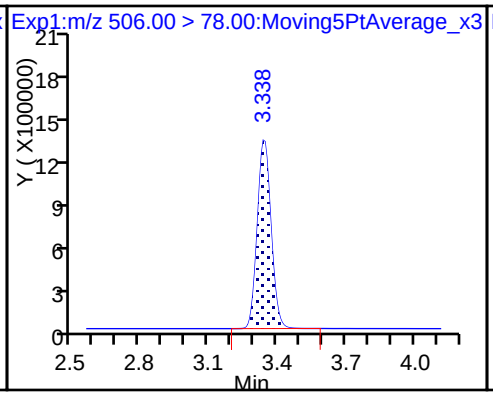
20 Perfluorononanoic acid



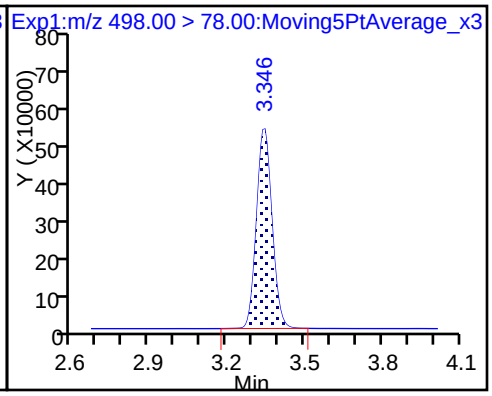
20 Perfluorononanoic acid



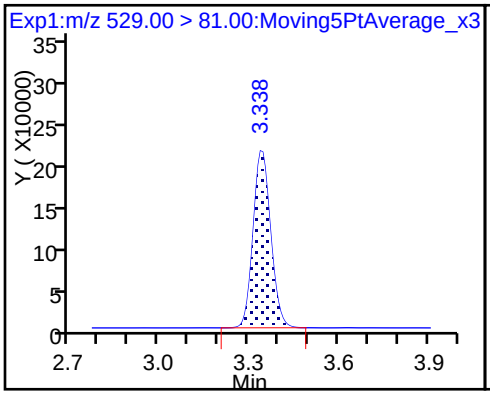
D 21 13C8 FOSA



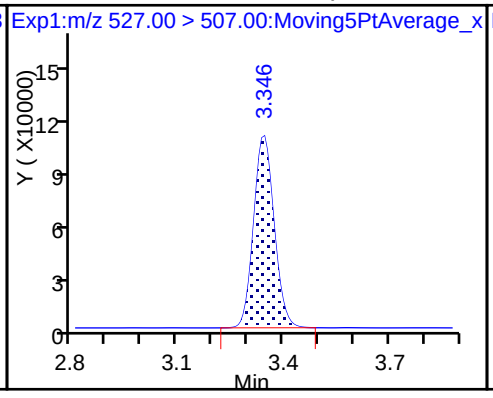
22 Perfluorooctane Sulfonamide



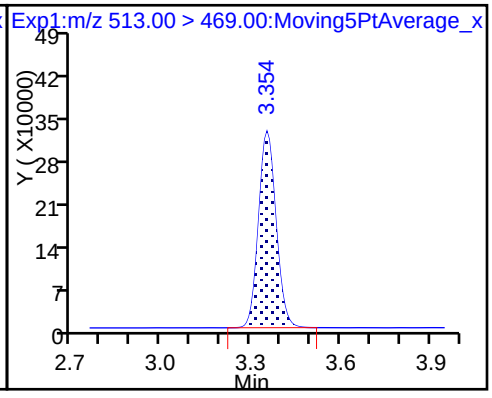
D 26 M2-8:2FTS



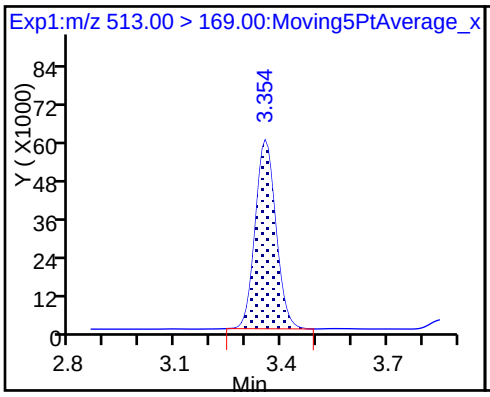
25 Sodium 1H,1H,2H,2H-perfluorodecan



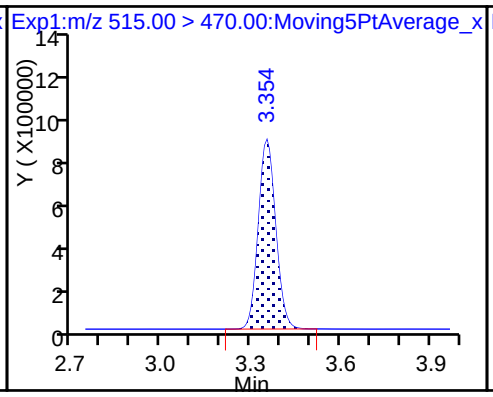
24 Perfluorodecanoic acid



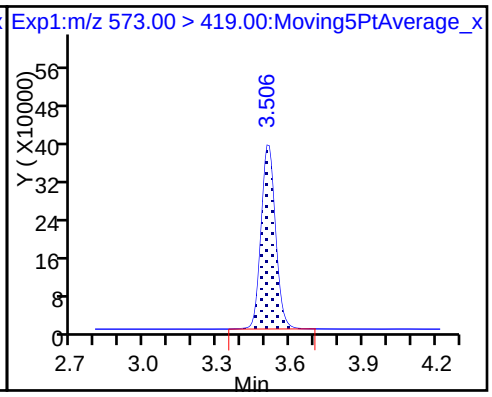
24 Perfluorodecanoic acid



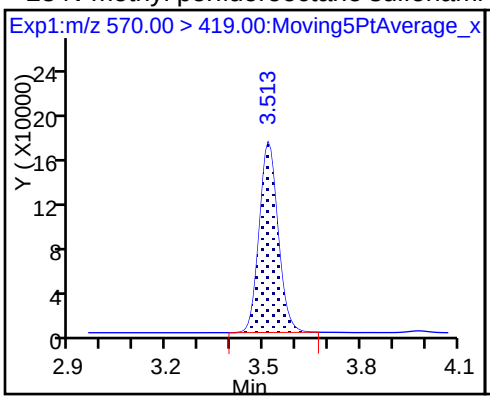
D 23 13C2 PFDA



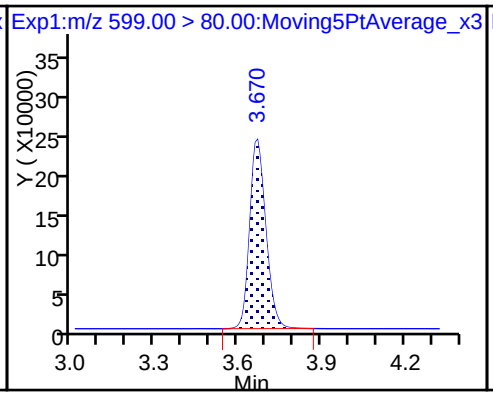
D 27 d3-NMeFOSAA



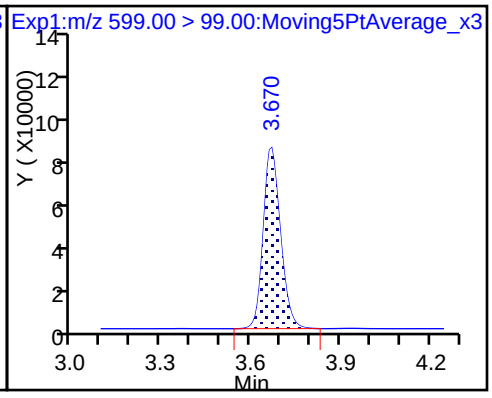
28 N-methyl perfluorooctane sulfonami



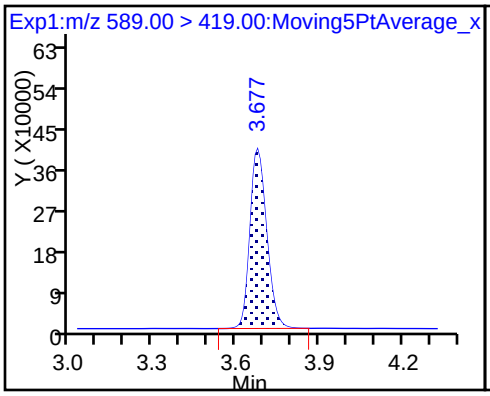
29 Perfluorodecane Sulfonic acid



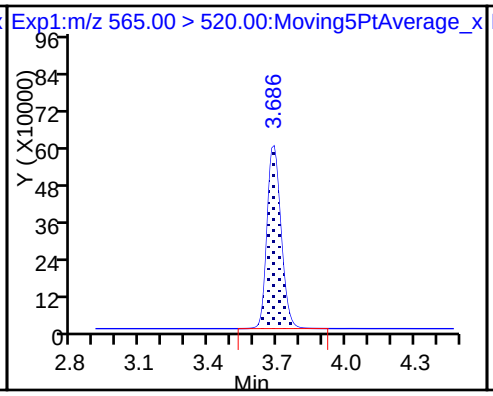
29 Perfluorodecane Sulfonic acid



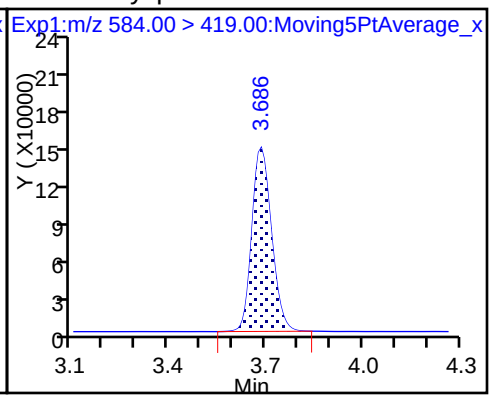
D 32 d5-NEtFOSAA



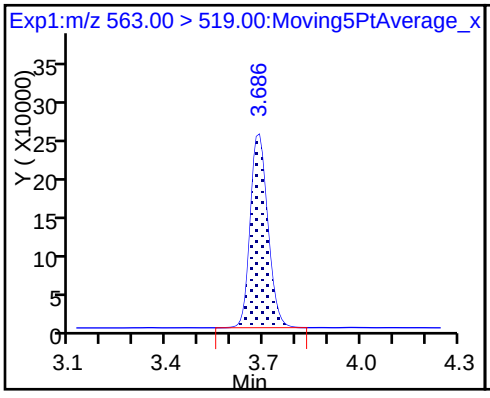
D 30 13C2 PFUnA



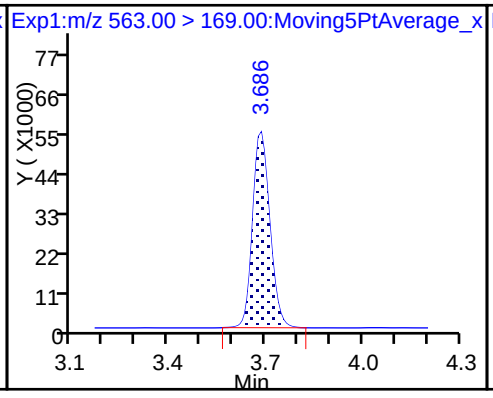
33 N-ethyl perfluorooctane sulfonamid



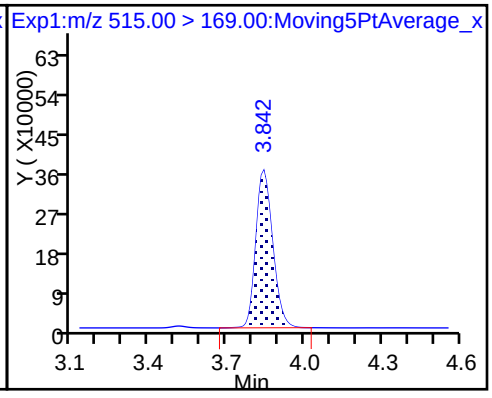
31 Perfluoroundecanoic acid



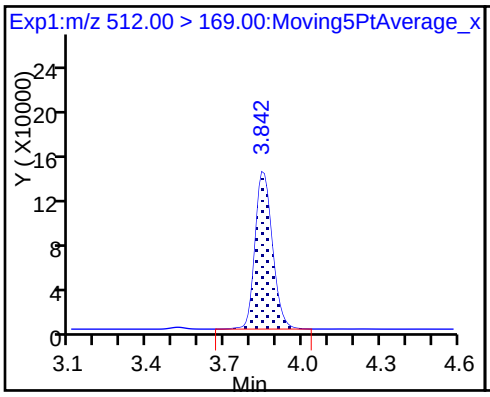
31 Perfluoroundecanoic acid



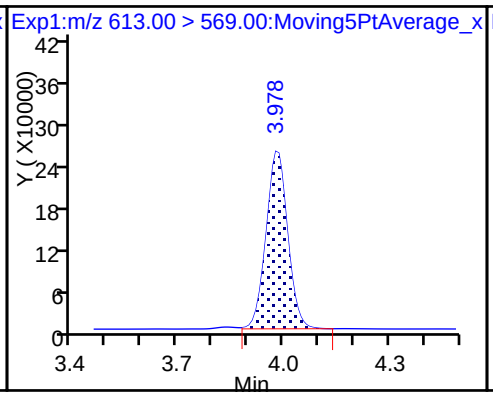
D 34 d-N-MeFOSA-M



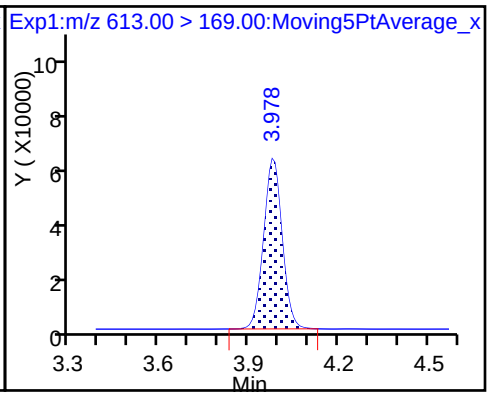
35 MeFOSA



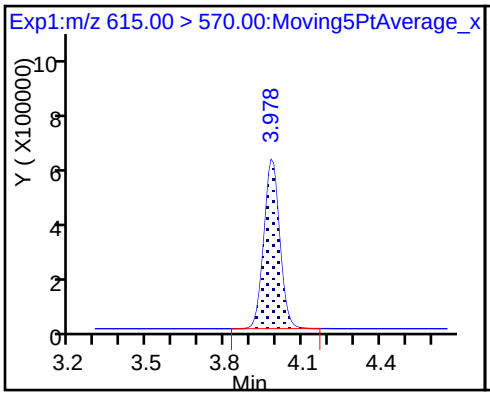
37 Perfluorododecanoic acid



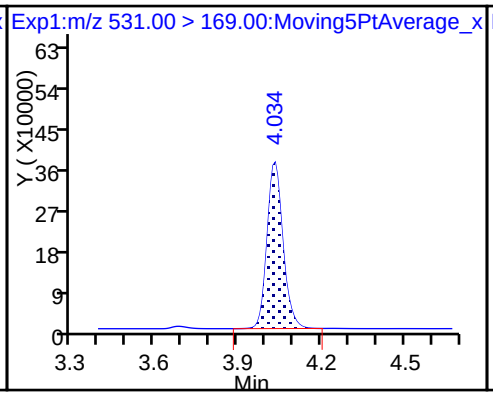
37 Perfluorododecanoic acid



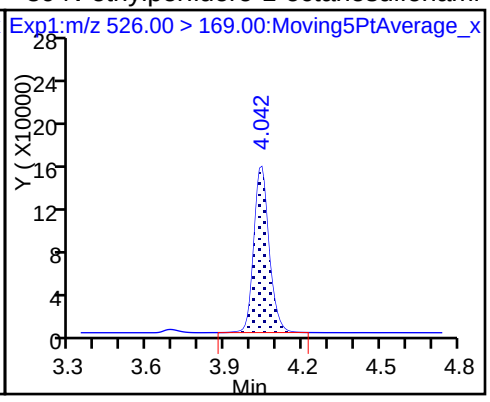
D 36 13C2 PFDoA



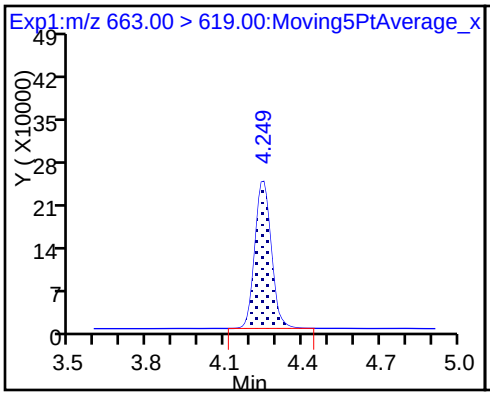
D 38 d-N-EtFOSA-M



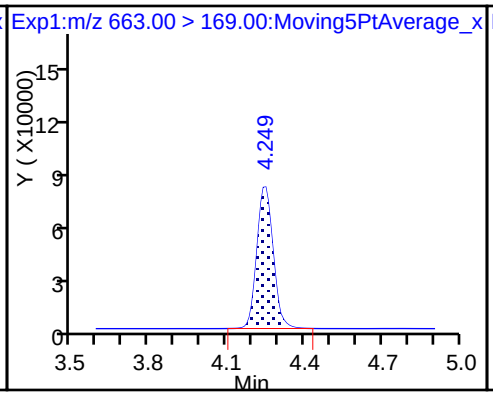
39 N-ethylperfluoro-1-octanesulfonami



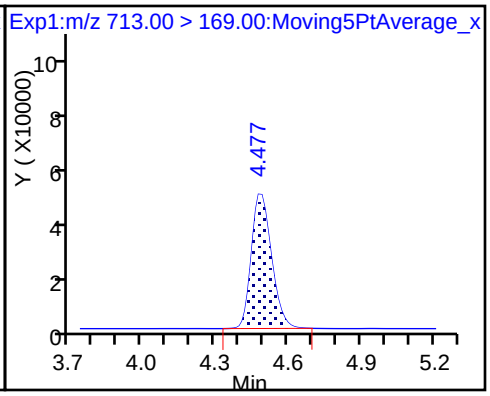
41 Perfluorotridecanoic acid



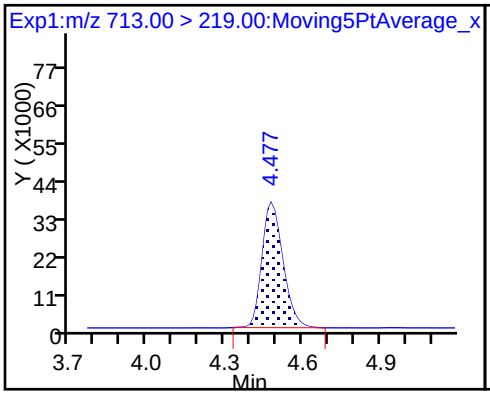
41 Perfluorotridecanoic acid



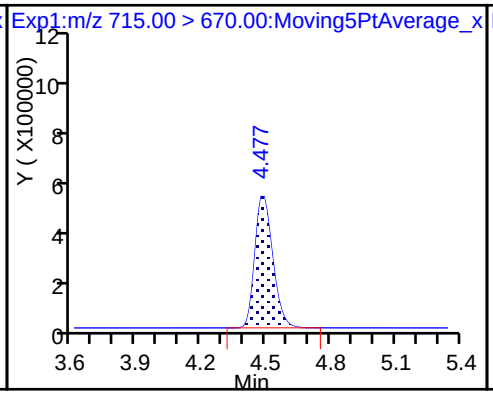
42 Perfluorotetradecanoic acid



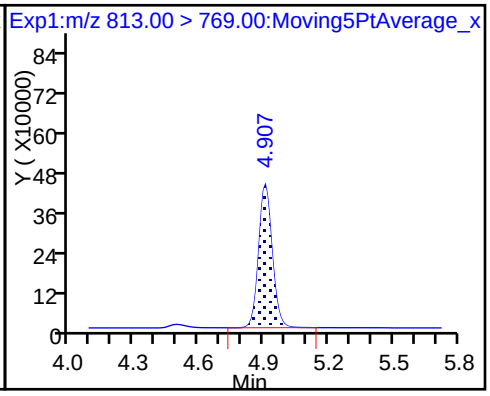
42 Perfluorotetradecanoic acid



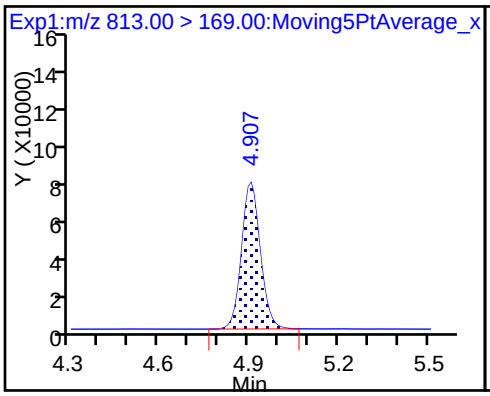
D 43 13C2-PFTeDA



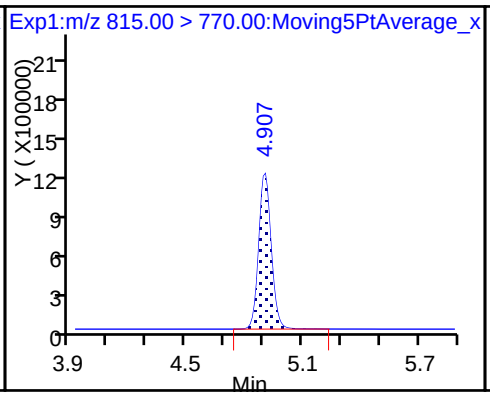
45 Perfluorohexadecanoic acid



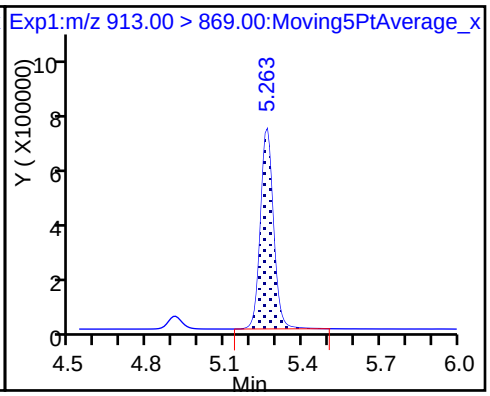
45 Perfluorohexadecanoic acid



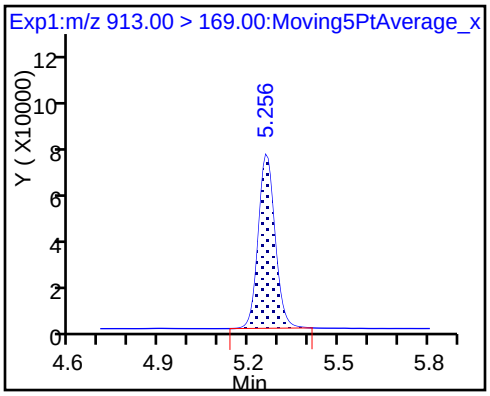
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Lab Sample ID: CCV 320-200243/11 Calibration Date: 12/15/2017 21:37

Instrument ID: A8_N Calib Start Date: 12/14/2017 15:52

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 12/14/2017 16:55

Lab File ID: 2017.12.15LLBLLA_011.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9017	0.9473		2.63	2.50	5.1	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.112	1.121		2.52	2.50	0.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	73.33	76.31		2.30	2.21	4.1	50.0
4:2 FTS	AveID	0.4676	0.6012		3.00	2.34	28.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9862	0.998		2.53	2.50	1.2	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.037	1.018		2.46	2.50	-1.8	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.064		2.19	2.28	-3.6	40.0
6:2FTS	AveID	1.573	1.615		2.43	2.37	2.7	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.475	1.453		2.34	2.38	-1.5	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.063	1.055		2.48	2.50	-0.8	40.0
Perfluorononanoic acid (PFNA)	AveID	0.996	1.008		2.53	2.50	1.2	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.063	1.070		2.33	2.32	0.6	40.0
8:2FTS	AveID	1.217	1.278		2.52	2.40	5.0	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9462	1.014		2.68	2.50	7.2	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9664	1.034		2.67	2.50	7.0	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.044	1.016		2.43	2.50	-2.7	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.5939	0.6306		2.56	2.41	6.2	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9651	0.9800		2.54	2.50	1.5	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9075	0.9146		2.52	2.50	0.8	40.0
MeFOSA	AveID	1.002	0.9816		2.45	2.50	-2.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9736	1.011		2.60	2.50	3.9	40.0
N-EtFOSA-M	AveID	1.033	1.040		2.52	2.50	0.7	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.104	1.016		2.30	2.50	-8.0	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2499	0.2566		2.57	2.50	2.7	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8894		2.51	2.50	0.3	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.128	1.140		2.53	2.50	1.1	50.0
13C4 PFBA	Ave	1.463	1.420		2.43	2.50	-2.9	50.0
13C5 PFPeA	Ave	0.8617	0.8572		2.49	2.50	-0.5	50.0
13C3-PFBS	Ave	0.0185	0.0183		2.30	2.33	-0.9	50.0
13C2 PFHxA	Ave	0.9002	0.8948		2.48	2.50	-0.6	50.0
13C4-PFHpA	Ave	0.8445	0.8535		2.53	2.50	1.1	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Lab Sample ID: CCV 320-200243/11 Calibration Date: 12/15/2017 21:37

Instrument ID: A8_N Calib Start Date: 12/14/2017 15:52

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 12/14/2017 16:55

Lab File ID: 2017.12.15LLBLLA_011.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
18O2 PFHxS	Ave	1.051	1.032		2.32	2.37	-1.9	50.0
M2-6:2FTS	Ave	0.4590	0.4114		2.13	2.38	-10.4	40.0
13C4 PFOA	Ave	1.021	0.999		2.45	2.50	-2.1	50.0
13C4 PFOS	Ave	0.6631	0.6684		2.41	2.39	0.8	50.0
13C5 PFNA	Ave	0.6758	0.6715		2.48	2.50	-0.6	50.0
13C8 FOSA	Ave	0.9504	0.9205		2.42	2.50	-3.1	50.0
M2-8:2FTS	Ave	0.1522	0.1506		2.37	2.40	-1.0	40.0
13C2 PFDA	Ave	0.5506	0.5386		2.45	2.50	-2.2	50.0
d3-NMeFOSAA	Ave	0.2625	0.2780		2.65	2.50	5.9	50.0
d5-NEtFOSAA	Ave	0.2616	0.2712		2.59	2.50	3.7	50.0
13C2 PFUnA	Ave	0.4188	0.4200		2.51	2.50	0.3	50.0
d-N-MeFOSA-M	Ave	0.2786	0.2678		2.40	2.50	-3.9	50.0
13C2 PFDoA	Ave	0.4477	0.4561		2.55	2.50	1.9	50.0
d-N-EtFOSA-M	Ave	0.2578	0.2506		2.43	2.50	-2.8	50.0
13C2-PFTeDA	Ave	0.4855	0.4798		2.47	2.50	-1.2	50.0
13C2-PFHxDA	Ave	0.8900	0.8633		2.42	2.50	-3.0	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_011.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 15-Dec-2017 21:37:04 ALS Bottle#: 14 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub18

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 20-Dec-2017 12:02:21 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK050

First Level Reviewer: hannigana Date: 20-Dec-2017 12:02:21

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.407	1.406	0.001	0.537	8383863	2.43		97.1	21761	
2 Perfluorobutyric acid										
212.90 > 169.00	1.407	1.408	-0.001	1.000	7941709	2.63		105	1605	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.652	1.656	-0.004	1.000	5674922	2.52		101	4021	
D 3 13C5-PFPeA										
267.90 > 223.00	1.652	1.656	-0.004	0.630	5060346	2.49		99.5	70282	
D 47 13C3-PFBS										
301.90 > 83.00	1.688	1.690	-0.002	0.644	100588	2.30		99.1	3601	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.688	1.692	-0.004	1.000	7296420	2.30		104	25499	
298.90 > 99.00	1.688	1.692	-0.004	1.000	3060324		2.38(1.25-3.74)		20611	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.902	1.902	0.0	1.000	1363551	3.00		129	48547	
D 7 13C2 PFHxA										
315.00 > 270.00	1.933	1.938	-0.005	0.737	5282230	2.48		99.4	39056	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.933	1.939	-0.006	1.000	5273083	2.53		101	10189	
313.00 > 119.00	1.933	1.939	-0.006	1.000	487778		10.81(5.03-15.10)		9134	
D 9 13C4-PFHpA										
367.00 > 322.00	2.265	2.272	-0.007	0.864	5038200	2.53		101	26717	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.265	2.273	-0.008	1.000	5128982	2.46		98.2	7900	
363.00 > 169.00	2.265	2.273	-0.008	1.000	2022160		2.54(1.13-3.40)		11876	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.278	2.285	-0.007	1.000	5896837	2.19		96.4	18170	
399.00 > 99.00	2.278	2.285	-0.007	1.000	1911561		3.08(1.50-4.49)		10489	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.278	2.286	-0.008	0.869	5761121	2.32		98.1	37714	
D 12 M2-6:2FTS										
429.00 > 81.00	2.614	2.625	-0.011	0.997	2306999	2.13		89.6	74996	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.614	2.625	-0.011	1.000	3718069	2.43		103	74294	
D 14 13C4 PFOA										
417.00 > 372.00	2.621	2.637	-0.016	1.000	5899543	2.45		97.9	40755	
* 62 13C2-PFOA										
415.00 > 370.00	2.621	2.638	-0.017		5903075	2.50			37934	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.628	2.640	-0.012	1.003	6222174	2.48		99.2	5712	
413.00 > 169.00	2.628	2.640	-0.012	1.003	3394960		1.83(0.84-2.52)		13137	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.628	2.644	-0.016	1.000	5456004	2.34		98.5	38290	
449.00 > 99.00	2.635	2.644	-0.009	1.003	1453959		3.75(1.94-5.82)		20593	
D 18 13C4 PFOS										
503.00 > 80.00	2.998	3.014	-0.016	1.144	3771930	2.41		101	23351	
D 19 13C5 PFNA										
468.00 > 423.00	2.998	3.015	-0.017	1.144	3964032	2.48		99.4	35554	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	2.998	3.015	-0.017	1.000	3916195	2.33		101	6585	
499.00 > 99.00	2.998	3.015	-0.017	1.000	837169		4.68(2.31-6.93)		4993	
20 Perfluorononanoic acid										
463.00 > 419.00	2.998	3.017	-0.019	1.000	3996221	2.53		101	13930	
463.00 > 169.00	2.998	3.017	-0.019	1.000	932324		4.29(1.90-5.69)		19660	
D 21 13C8 FOSA										
506.00 > 78.00	3.352	3.354	-0.002	1.279	5433525	2.42		96.9	25472	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.352	3.356	-0.004	1.000	5512270	2.68		107	36231	
D 26 M2-8:2FTS										
529.00 > 81.00	3.352	3.368	-0.016	1.279	851823	2.37		99.0	13096	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.352	3.369	-0.017	1.000	1088822	2.52		105	30086	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.367	3.379	-0.012	1.000	3286282	2.67		107	18861	
513.00 > 169.00	3.367	3.379	-0.012	1.000	561554		5.85(2.36-7.09)		2020	
D 23 13C2 PFDA										
515.00 > 470.00	3.367	3.379	-0.012	1.285	3179080	2.45		97.8	34005	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.520	3.535	-0.015	1.343	1640983	2.65		106	21385	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.527	3.538	-0.011	1.002	1667560	2.43		97.3	9883	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.676	3.692	-0.016	1.000	2398313	2.56		106	59703	
599.00 > 99.00	3.676	3.692	-0.016	1.000	780521		3.07(1.39-4.16)		12046	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.685	3.704	-0.019	1.406	1601134	2.59		104	8098	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.694	3.709	-0.015	1.409	2479147	2.51		100	31489	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.694	3.710	-0.016	1.002	1569090	2.54		102	18531	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.694	3.711	-0.017	1.000	2267388	2.52		101	13274	
563.00 > 169.00	3.694	3.711	-0.017	1.000	479962		4.72(0.00-0.00)		21750	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.851	3.850	0.001	1.469	1580733	2.40		96.1	3809	
35 MeFOSA										
512.00 > 169.00	3.851	3.856	-0.005	1.000	1551711	2.45		97.9	3573	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.993	4.008	-0.015	1.000	2722982	2.60		104	7704	
613.00 > 169.00	3.993	4.008	-0.015	1.000	660302		4.12(2.13-6.40)		40034	
D 36 13C2 PFDoA										
615.00 > 570.00	3.993	4.008	-0.015	1.524	2692543	2.55		102	40787	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.040	4.039	0.001	1.542	1479183	2.43		97.2	3010	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.048	4.047	0.001	1.002	1538915	2.52		101	3017	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.257	4.275	-0.018	1.000	2734718	2.30		92.0	14198	
663.00 > 169.00	4.257	4.275	-0.018	1.000	859662		3.18(1.25-3.76)		28362	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.504	4.519	-0.015	1.000	726581	2.57		103	17910	
713.00 > 219.00	4.490	4.519	-0.029	0.997	456852		1.59(0.71-2.13)		11522	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.504	4.519	-0.015	1.718	2832155	2.47		98.8	18818	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.915	4.935	-0.020	1.000	4532048	2.51		100	2879	
813.00 > 169.00	4.915	4.935	-0.020	1.000	800282		5.66(2.86-8.58)		7667	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.915	4.935	-0.020	1.875	5095862	2.42		97.0	18517	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.276	5.299	-0.023	1.000	5808529	2.53		101	1328	
913.00 > 169.00	5.269	5.299	-0.030	0.999	735174		7.90(0.00-0.00)		2894	

Reagents:

LCPFC_LL5_00002 Amount Added: 1.00 Units: mL

Report Date: 20-Dec-2017 12:02:21 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_011.d

Injection Date: 15-Dec-2017 21:37:04 Instrument ID: A8_N

Lims ID: CCV L5

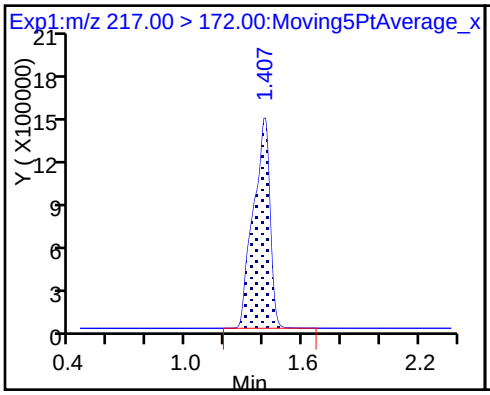
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 14 Worklist Smp#: 11

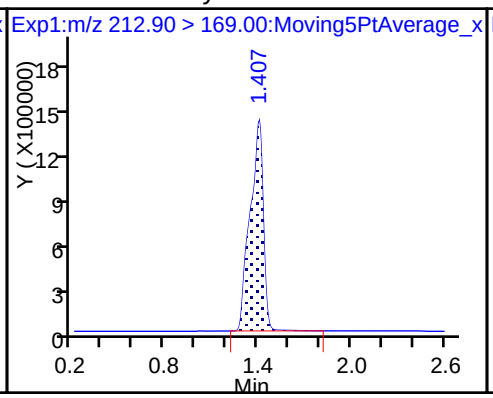
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

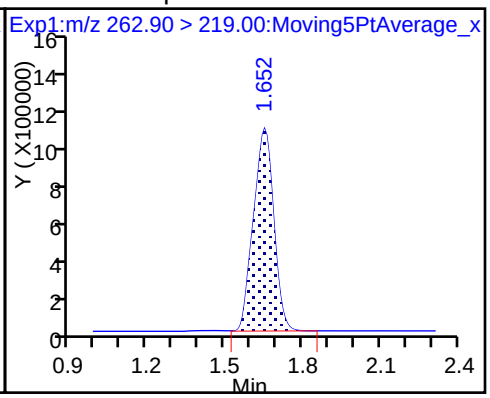
D 1 13C4 PFBA



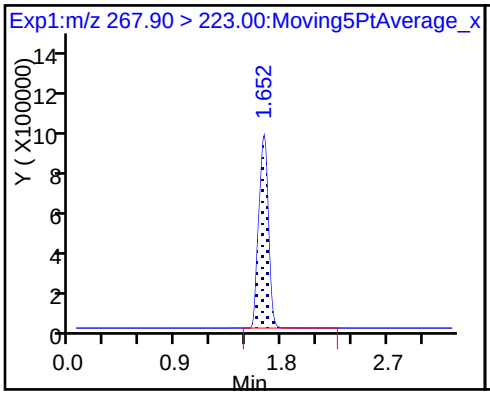
2 Perfluorobutyric acid



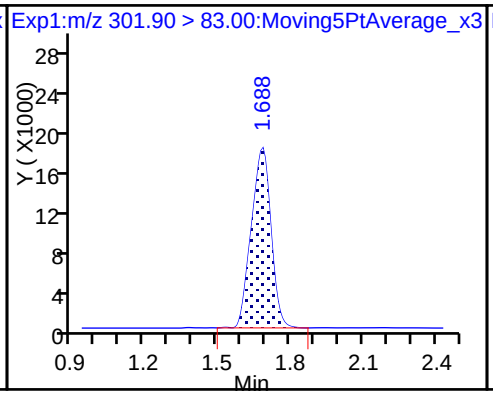
4 Perfluoropentanoic acid



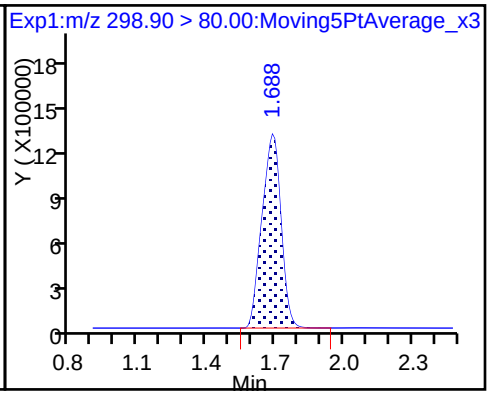
D 3 13C5-PFPeA



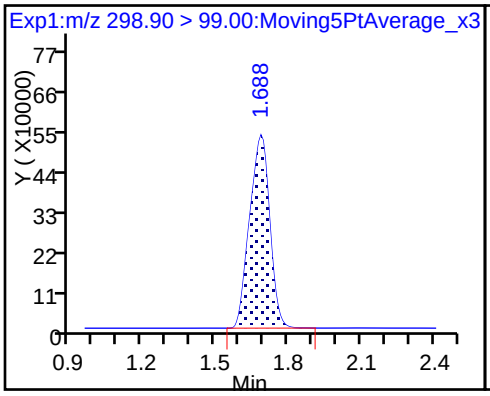
D 47 13C3-PFBS



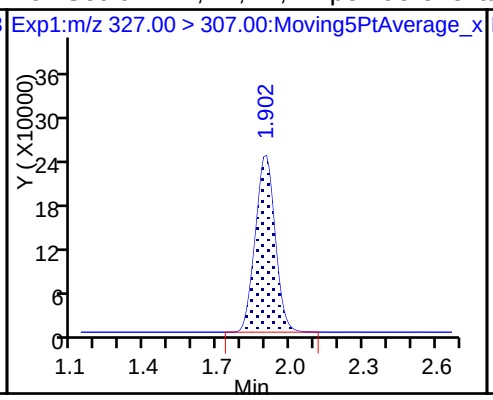
5 Perfluorobutanesulfonic acid



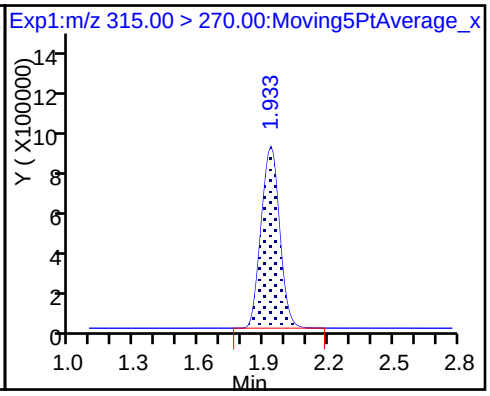
5 Perfluorobutanesulfonic acid



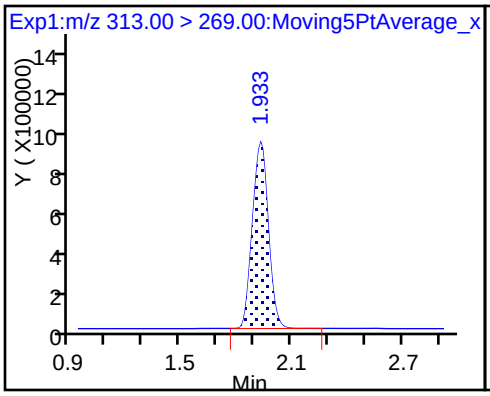
61 Sodium 1H,1H,2H,2H-perfluorohexa



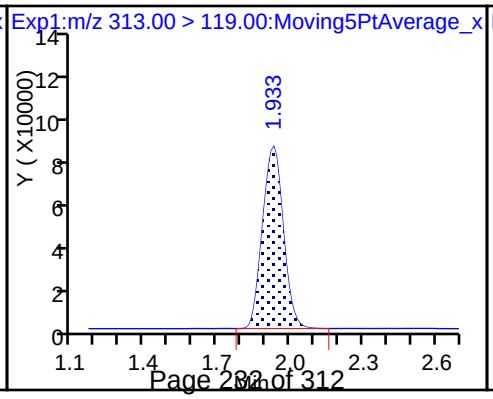
D 7 13C2 PFHxA



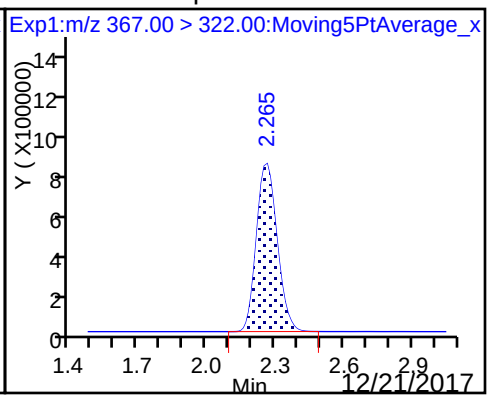
6 Perfluorohexanoic acid



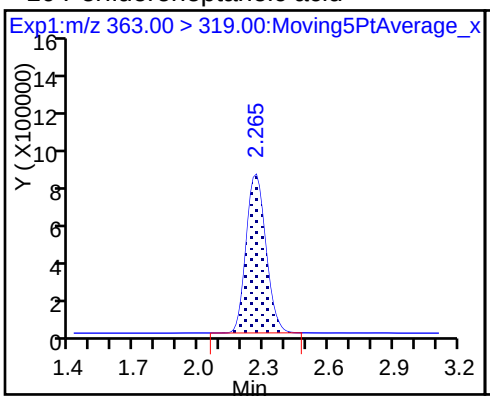
6 Perfluorohexanoic acid



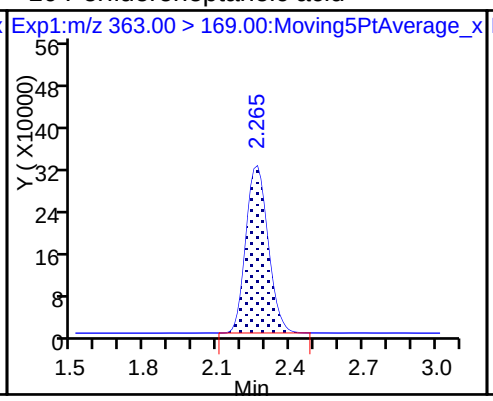
D 9 13C4-PFHpA



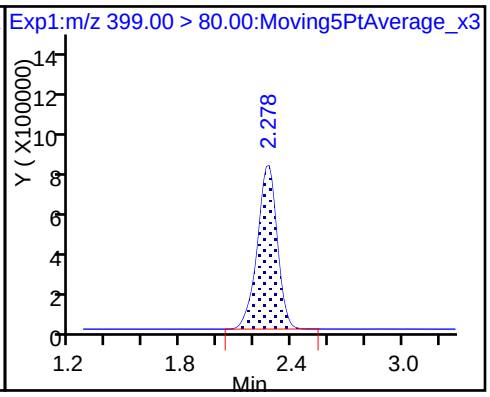
10 Perfluoroheptanoic acid



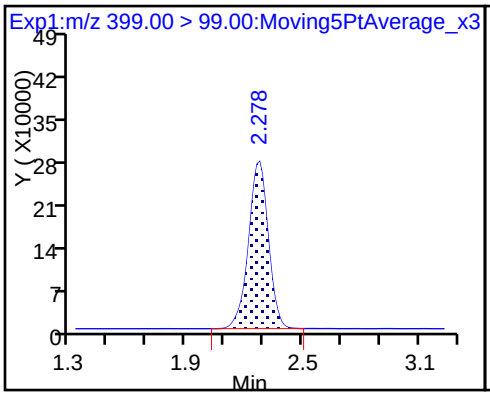
10 Perfluoroheptanoic acid



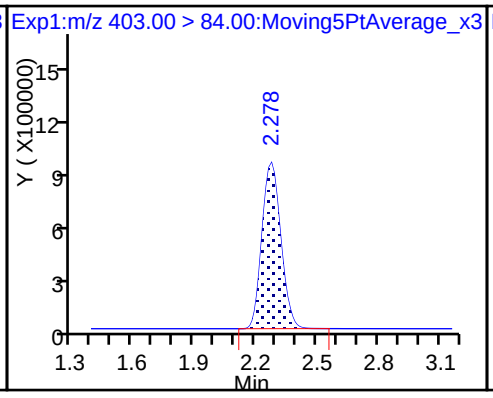
8 Perfluorohexanesulfonic acid



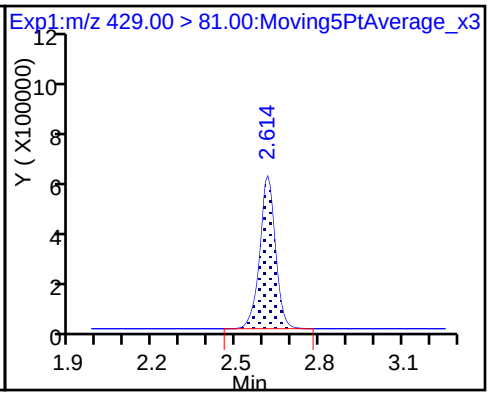
8 Perfluorohexanesulfonic acid



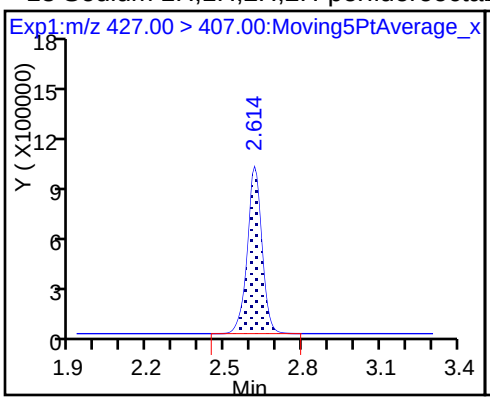
D 11 18O2 PFHxS



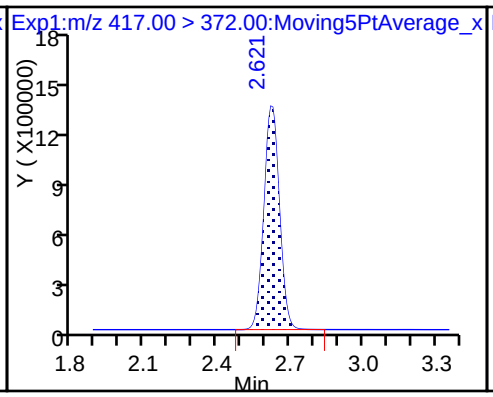
D 12 M2-6:2FTS



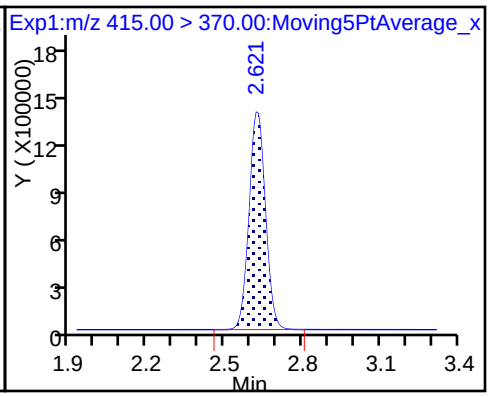
13 Sodium 1H,1H,2H,2H-perfluorooctane



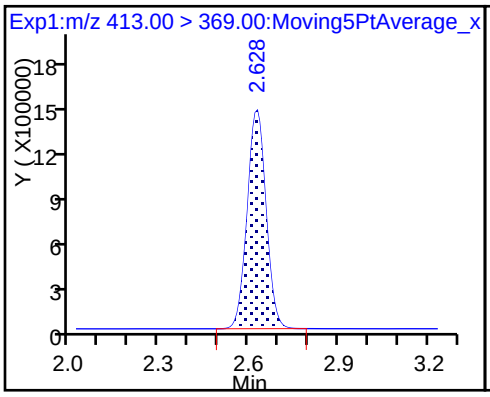
D 14 13C4 PFOA



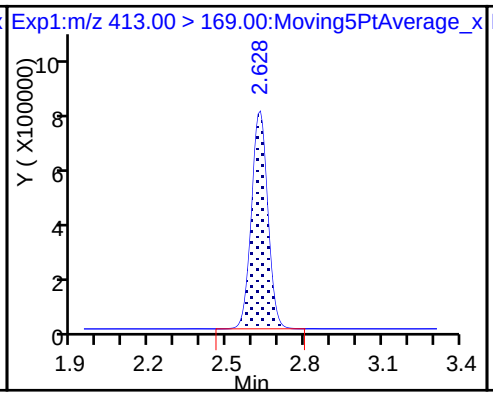
* 62 13C2-PFOA



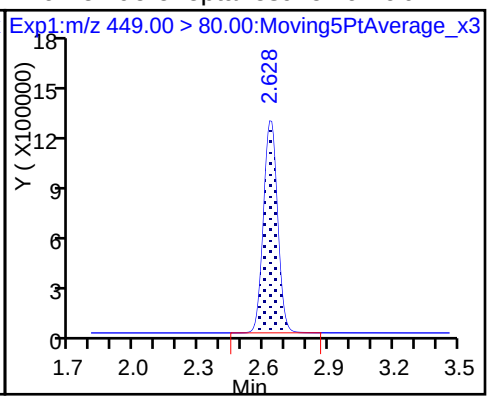
15 Perfluorooctanoic acid



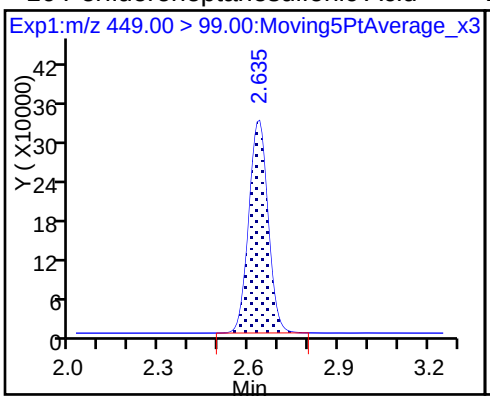
15 Perfluorooctanoic acid



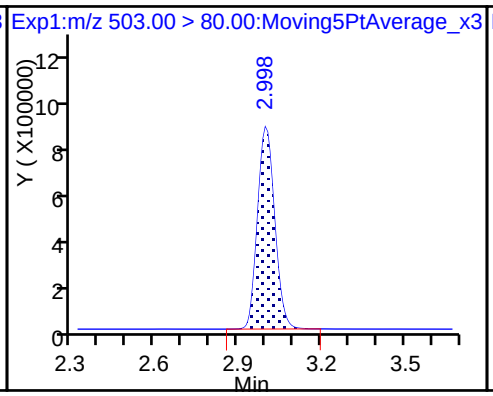
16 Perfluoroheptanesulfonic Acid



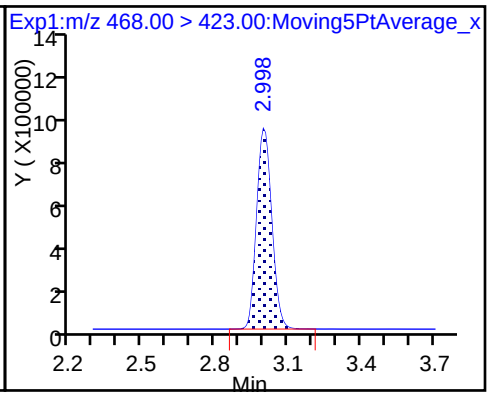
16 Perfluoroheptanesulfonic Acid



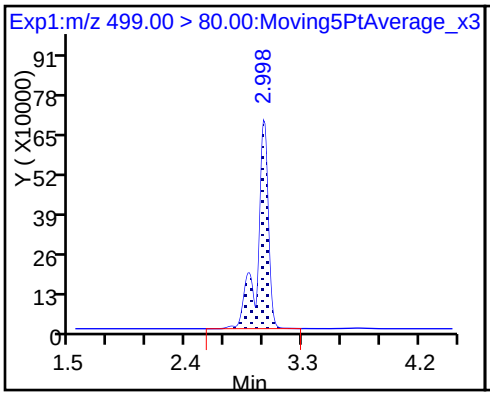
D 18 13C4 PFOS



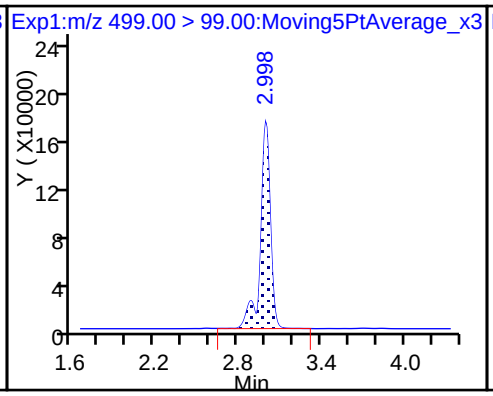
D 19 13C5 PFNA



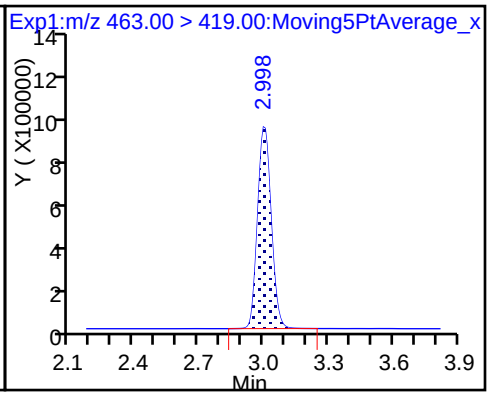
17 Perfluorooctane sulfonic acid



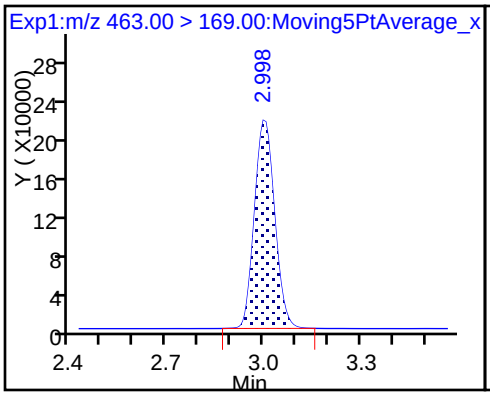
17 Perfluorooctane sulfonic acid



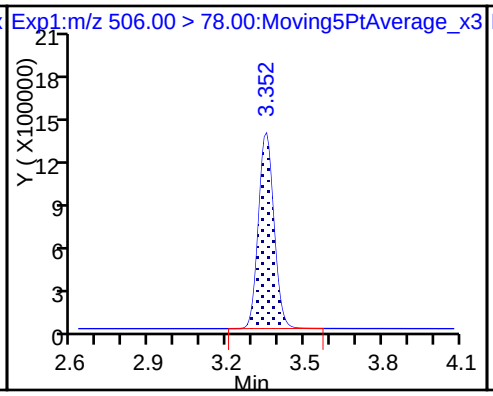
20 Perfluorononanoic acid



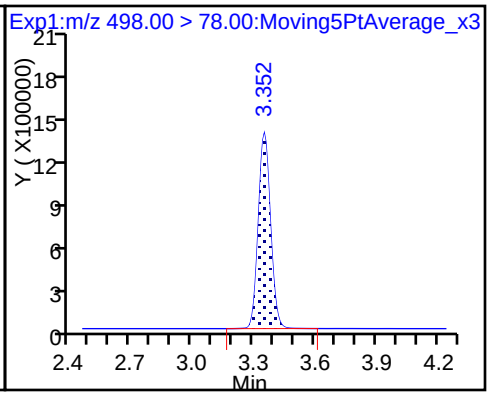
20 Perfluorononanoic acid



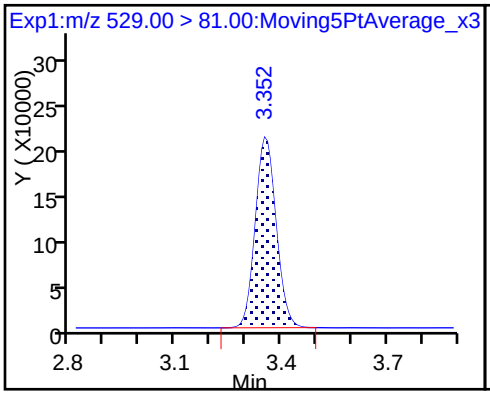
D 21 13C8 FOSA



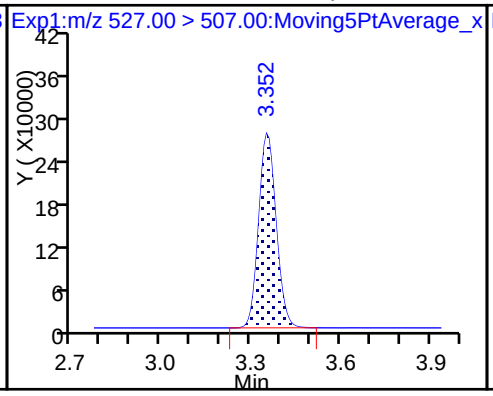
22 Perfluorooctane Sulfonamide



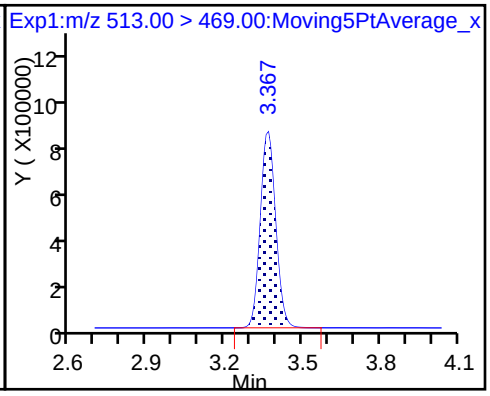
D 26 M2-8:2FTS



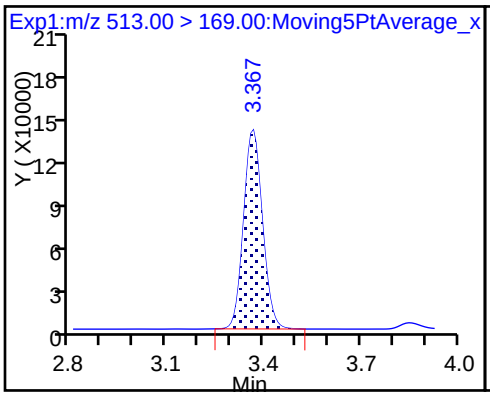
25 Sodium 1H,1H,2H,2H-perfluorodecan



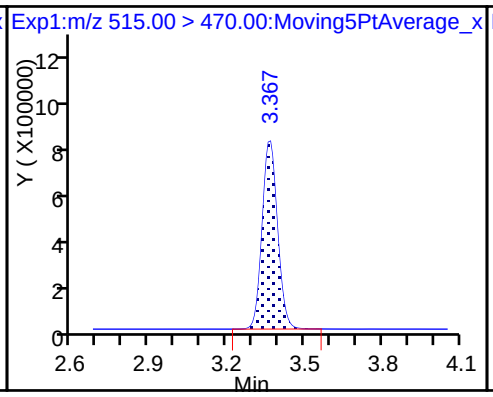
24 Perfluorodecanoic acid



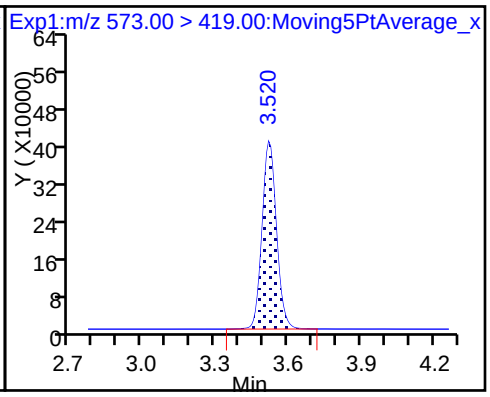
24 Perfluorodecanoic acid



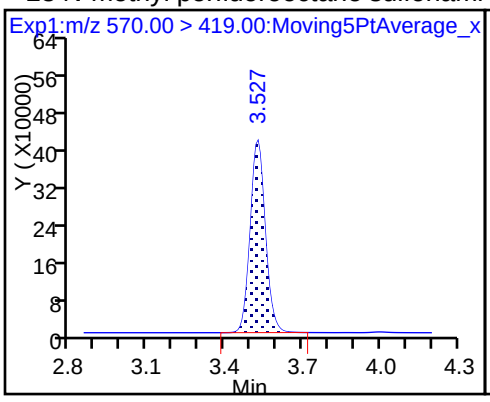
D 23 13C2 PFDA



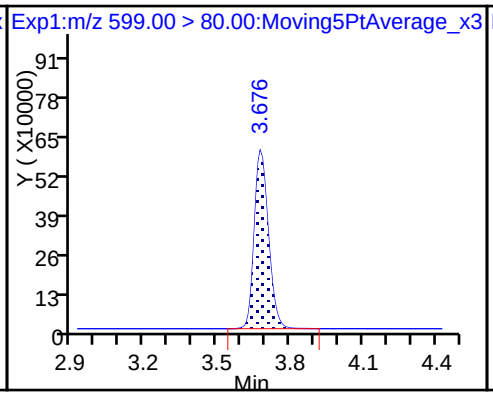
D 27 d3-NMeFOSAA



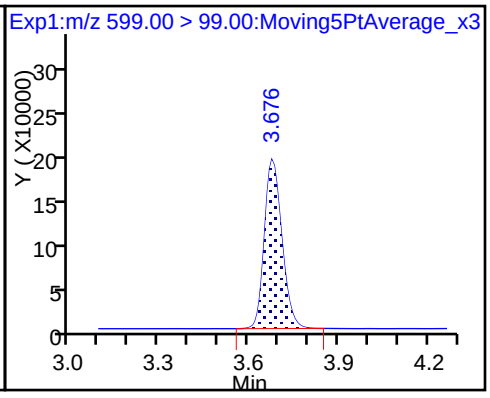
28 N-methyl perfluorooctane sulfonami



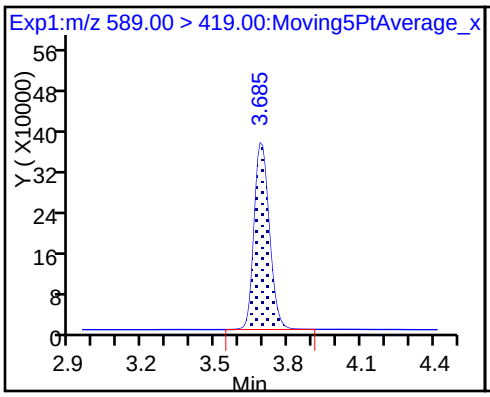
29 Perfluorodecane Sulfonic acid



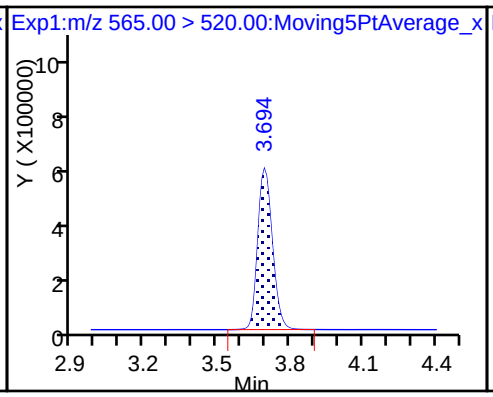
29 Perfluorodecane Sulfonic acid



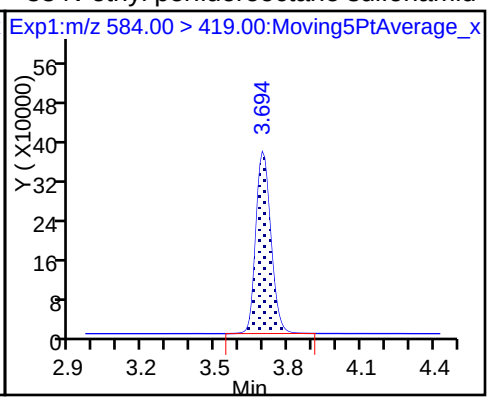
D 32 d5-NEtFOSAA



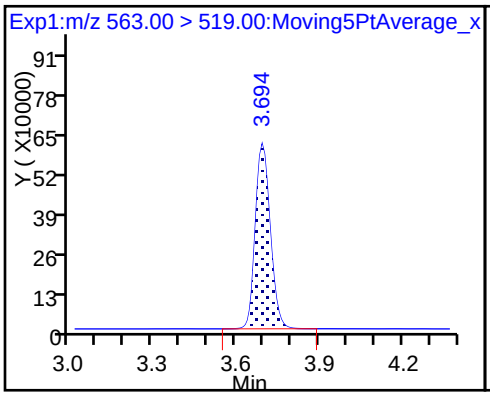
D 30 13C2 PFUnA



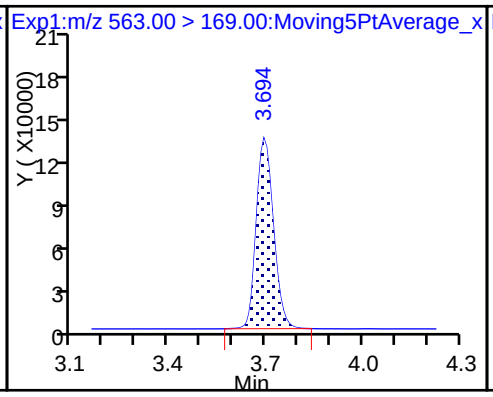
33 N-ethyl perfluorooctane sulfonamid



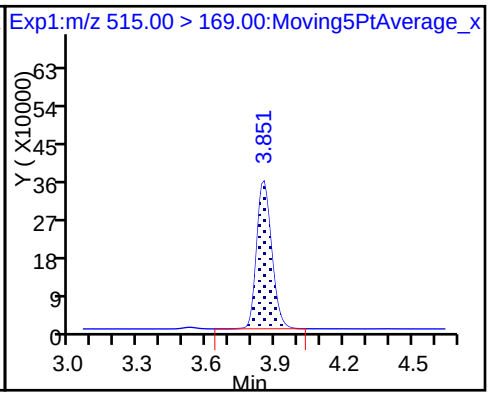
31 Perfluoroundecanoic acid



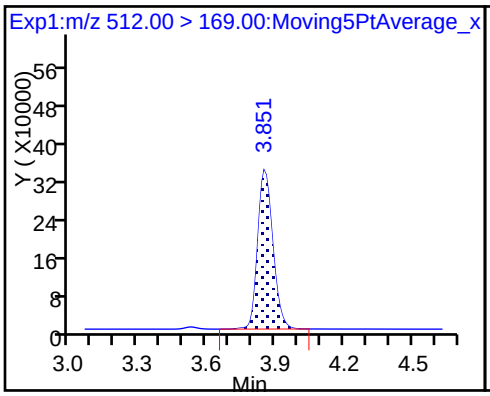
31 Perfluoroundecanoic acid



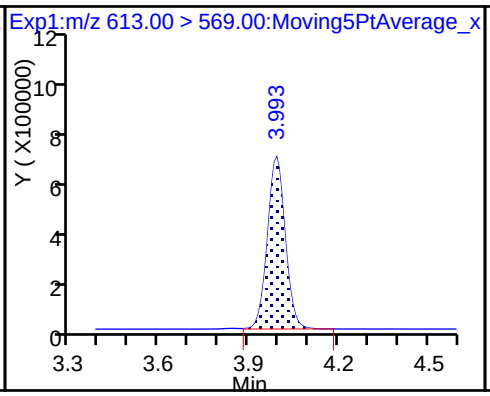
D 34 d-N-MeFOSA-M



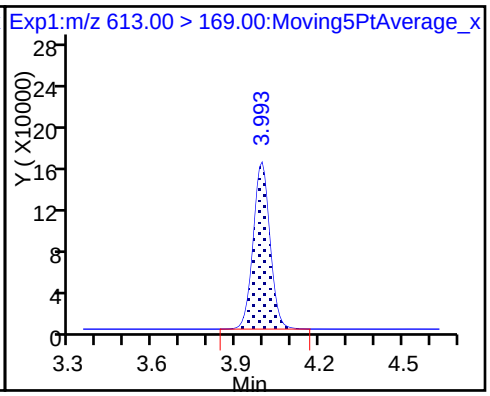
35 MeFOSA



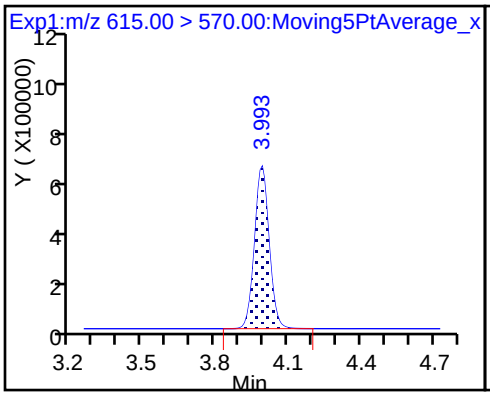
37 Perfluorododecanoic acid



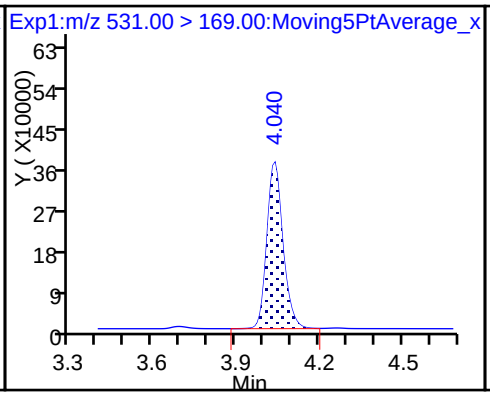
37 Perfluorododecanoic acid



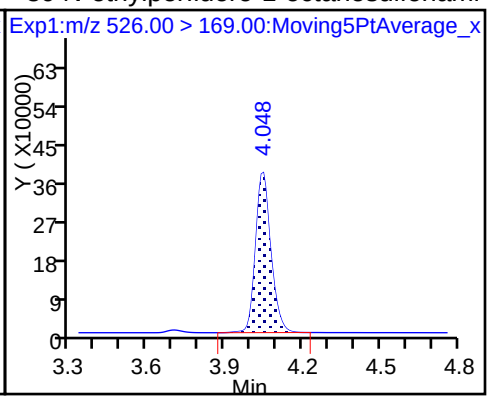
D 36 13C2 PFDoA



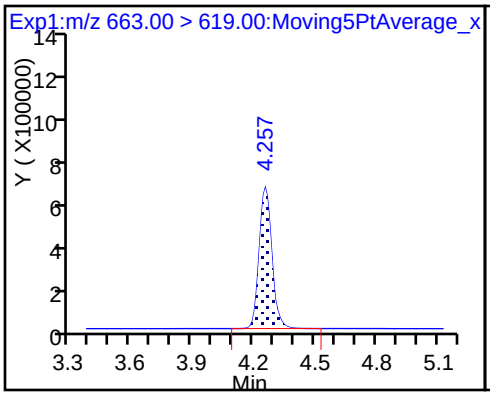
D 38 d-N-EtFOSA-M



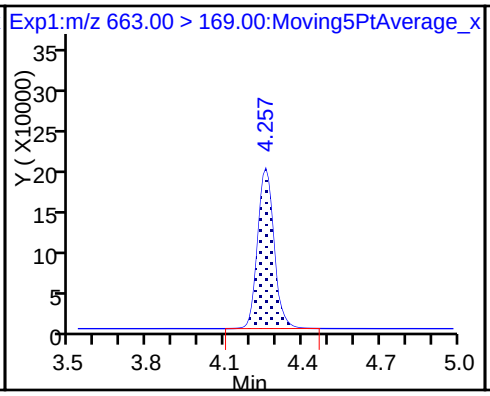
39 N-ethylperfluoro-1-octanesulfonami



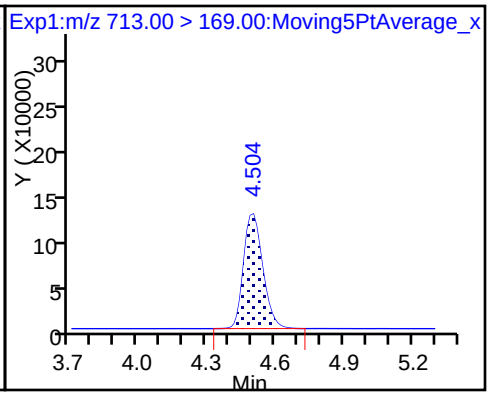
41 Perfluorotridecanoic acid



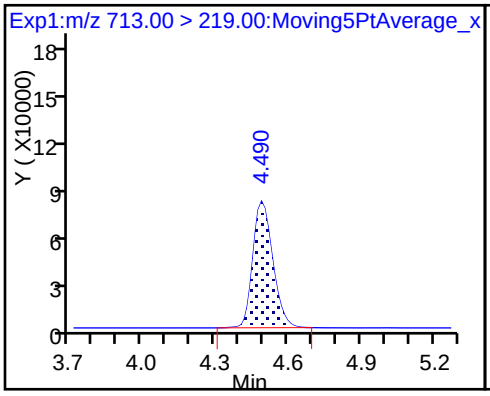
41 Perfluorotridecanoic acid



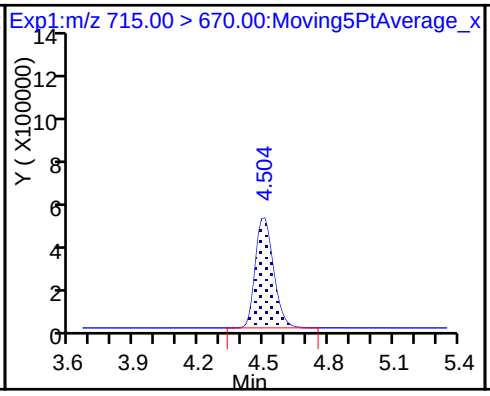
42 Perfluorotetradecanoic acid



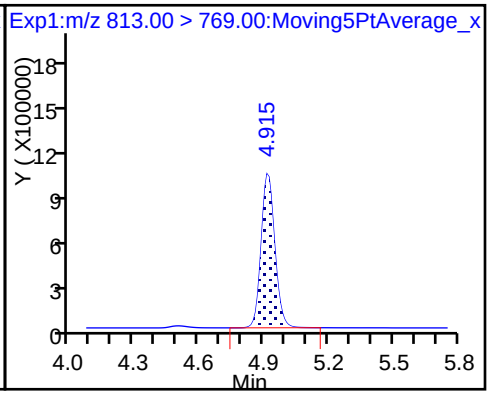
42 Perfluorotetradecanoic acid



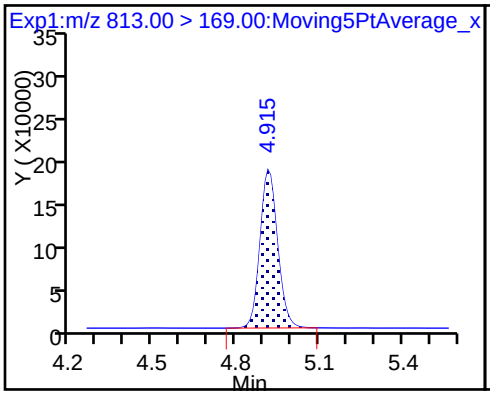
D 43 13C2-PFTeDA



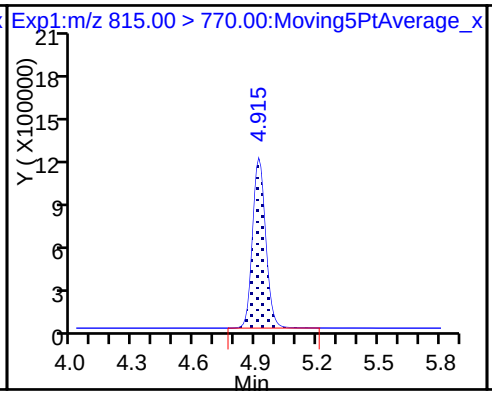
45 Perfluorohexadecanoic acid



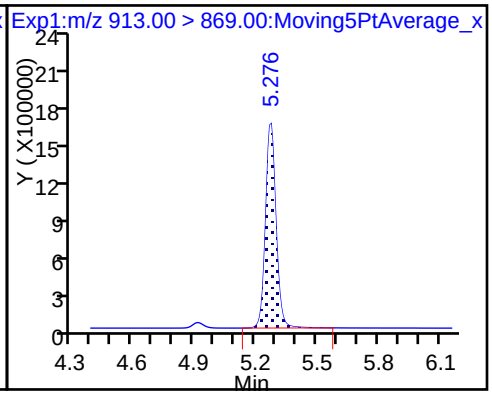
45 Perfluorohexadecanoic acid



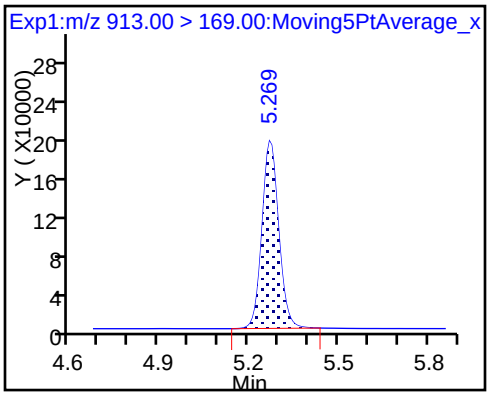
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-200005/1-A

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_002.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 250(mL) | Date Analyzed: 12/15/2017 20:25

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.265	J	2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-200005/1-A

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_002.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 250(mL) | Date Analyzed: 12/15/2017 20:25

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	115		25-150
STL01893	13C5 PFPeA	117		25-150
STL00993	13C2 PFHxA	118		25-150
STL01892	13C4-PFHpA	124		25-150
STL00990	13C4 PFOA	105		25-150
STL00995	13C5 PFNA	118		25-150
STL00996	13C2 PFDA	119		25-150
STL00997	13C2 PFUnA	119		25-150
STL00998	13C2 PFDoA	113		25-150
STL02116	13C2-PFTeDA	137		25-150
STL02337	13C3-PFBS	112		25-150
STL00994	18O2 PFHxS	115		25-150
STL00991	13C4 PFOS	117		25-150
STL01056	13C8 FOSA	105		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_002.d
Lims ID: MB 320-200005/1-A
Client ID:
Sample Type: MB
Inject. Date: 15-Dec-2017 20:25:55 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: mb 320-200005/1-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 20-Dec-2017 11:39:14 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK050

First Level Reviewer: hannigana Date: 20-Dec-2017 11:39:14

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.402	1.406	-0.004	0.534	8408639	2.88		115	14582	M
2 Perfluorobutyric acid										
212.90 > 169.00	1.408	1.408	0.0	1.004	17498	0.005770			3.7	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.654	1.656	-0.002	1.000	8359	0.003729			8.9	
D 3 13C5-PFPeA										
267.90 > 223.00	1.654	1.656	-0.002	0.630	5038430	2.93		117	37072	
D 47 13C3-PFBS										
301.90 > 83.00	1.680	1.690	-0.010	0.640	95966	2.60		112	3441	
D 60 M2-4:2FTS										
329.00 > 81.00	1.769	1.918	-0.149	0.674	322	0.001660		0.0	54.7	
D 7 13C2 PFHxA										
315.00 > 270.00	1.934	1.938	-0.004	0.737	5287993	2.95		118	46880	
D 9 13C4-PFHpA										
367.00 > 322.00	2.266	2.272	-0.006	0.864	5219583	3.10		124	39402	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.279	2.285	-0.006	1.000	17613	0.006628			128	
399.00 > 99.00	2.266	2.285	-0.019	0.994	6080		2.90(1.50-4.49)		51.1	
D 11 18O2 PFHxS										
403.00 > 84.00	2.279	2.286	-0.007	0.869	5691359	2.71		115	58491	
D 12 M2-6:2FTS										
429.00 > 81.00	2.596	2.625	-0.029	0.990	891805	0.9745		41.0	21807	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.596	2.625	-0.029	1.000	6450	0.0109			201	
D 14 13C4 PFOA										
417.00 > 372.00	2.624	2.637	-0.013	1.000	5336011	2.62		105	49183	
* 62 13C2-PFOA										
415.00 > 370.00	2.624	2.638	-0.014		4984754	2.50			40655	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Perfluorooctanoic acid										
413.00 > 369.00	2.624	2.640	-0.016	1.000	12434	0.005479			12.8	
413.00 > 169.00	2.624	2.640	-0.016	1.000	7180		1.73(0.84-2.52)		45.4	
D 18 13C4 PFOS										
503.00 > 80.00	2.994	3.014	-0.020	1.141	3698013	2.80		117	43445	
D 19 13C5 PFNA										
468.00 > 423.00	2.994	3.015	-0.021	1.141	3958717	2.94		118	40126	
D 21 13C8 FOSA										
506.00 > 78.00	3.348	3.354	-0.006	1.276	4961526	2.62		105	26293	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.348	3.356	-0.008	1.000	9055	0.004822			264	
D 26 M2-8:2FTS										
529.00 > 81.00	3.348	3.368	-0.020	1.276	937371	3.09		129	19975	
D 23 13C2 PFDA										
515.00 > 470.00	3.355	3.379	-0.024	1.279	3272909	2.98		119	34760	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.515	3.535	-0.020	1.340	1581322	3.02		121	22222	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.522	3.538	-0.016	1.002	3769	0.005707			46.0	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.680	3.704	-0.024	1.403	1614423	3.09		124	6858	
D 30 13C2 PFUnA										
565.00 > 520.00	3.689	3.709	-0.020	1.406	2481092	2.97		119	26247	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.689	3.710	-0.021	1.002	4924	0.007901			153	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.680	3.711	-0.031	0.998	11801	0.0131			43.0	
563.00 > 169.00	3.680	3.711	-0.031	0.998	3113		3.79(0.00-0.00)		23.6	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.845	3.850	-0.005	1.466	1126219	2.03		81.1	3603	
D 36 13C2 PFDoA										
615.00 > 570.00	3.981	4.008	-0.027	1.517	2511708	2.81		113	33434	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.036	4.039	-0.003	1.538	1097288	2.13		85.4	2843	
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.252	4.275	-0.023	1.000	4351	0.003924			22.6	RM
663.00 > 169.00	4.243	4.275	-0.032	0.998	907		4.80(1.25-3.76)		26.3	M
D 43 13C2-PFTeDA										
715.00 > 670.00	4.486	4.519	-0.033	1.710	3319348	3.43		137	24260	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.904	4.935	-0.031	1.000	51037	0.006540			36.7	
813.00 > 169.00	4.904	4.935	-0.031	1.000	9395		5.43(2.86-8.58)		313	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.904	4.935	-0.031	1.869	4880487	2.75		110	14296	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 20-Dec-2017 11:39:15 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_002.d

Injection Date: 15-Dec-2017 20:25:55 Instrument ID: A8_N

Lims ID: MB 320-200005/1-A

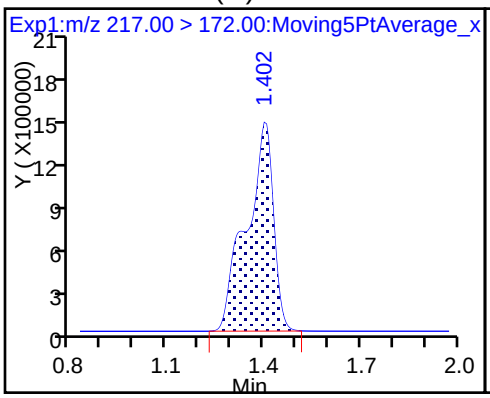
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2

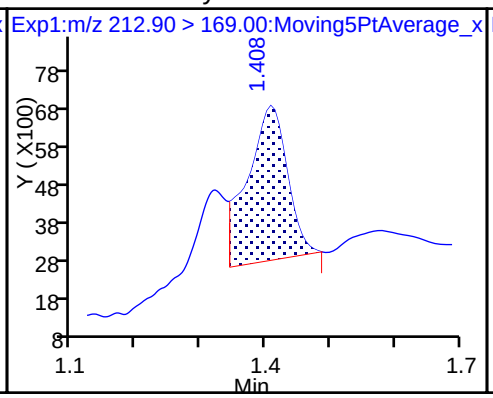
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

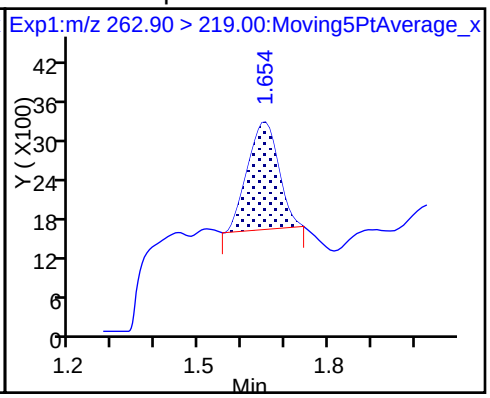
D 1 13C4 PFBA (M)



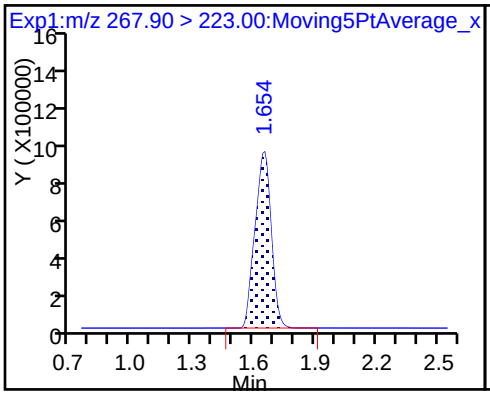
2 Perfluorobutyric acid



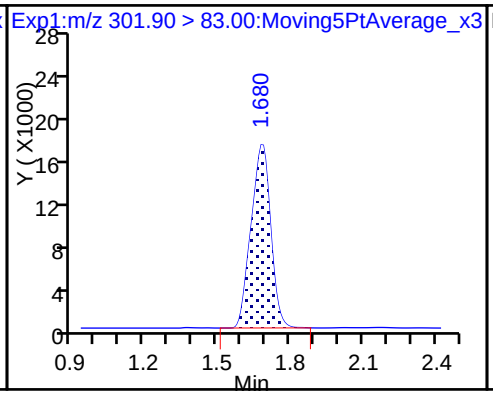
4 Perfluoropentanoic acid



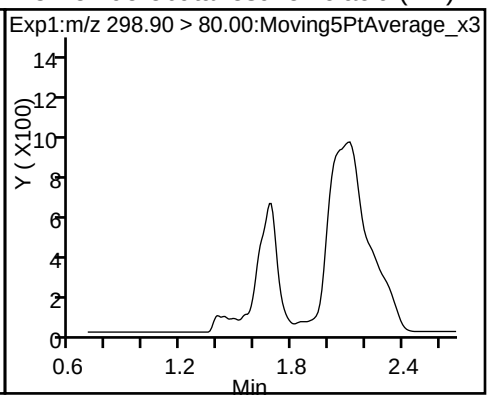
D 3 13C5-PFPeA



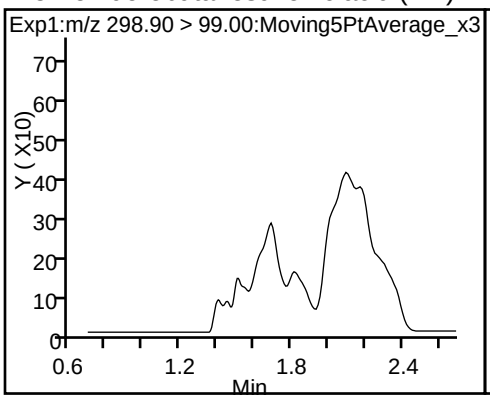
D 47 13C3-PFBS



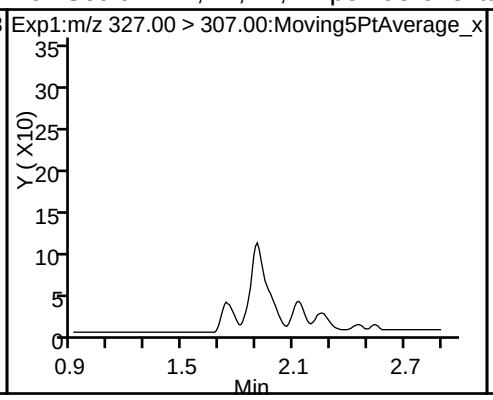
5 Perfluorobutanesulfonic acid (ND)



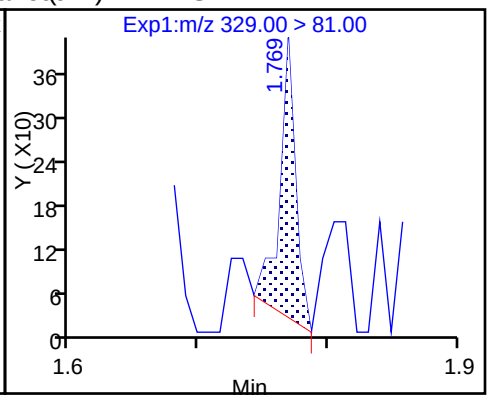
5 Perfluorobutanesulfonic acid (ND)



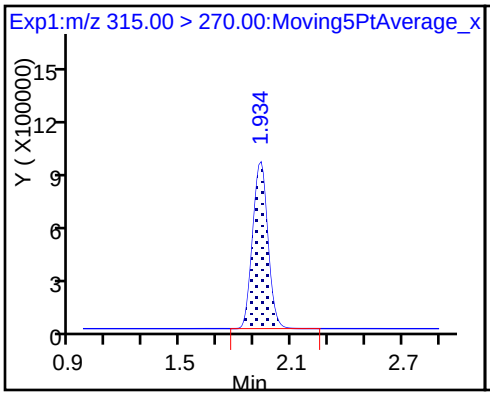
61 Sodium 1H,1H,2H,2H-perfluorohexanesulfonate



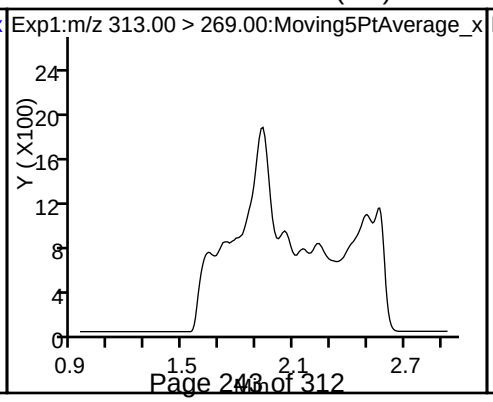
D 60 NM2-4:2FTS



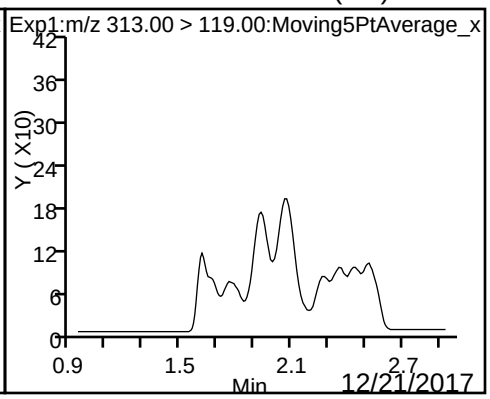
D 7 13C2 PFHxA



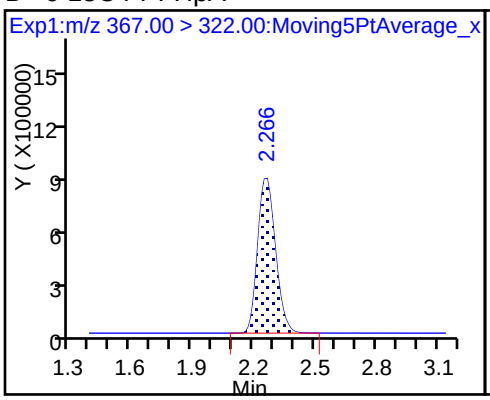
6 Perfluorohexanoic acid (ND)



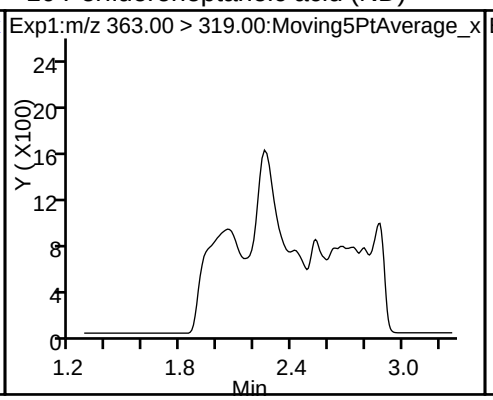
6 Perfluorohexanoic acid (ND)



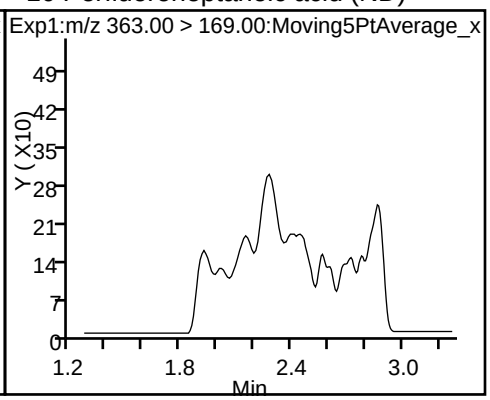
D 9 13C4-PFHpA



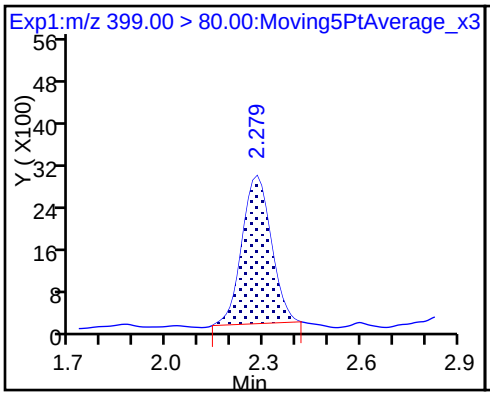
10 Perfluoroheptanoic acid (ND)



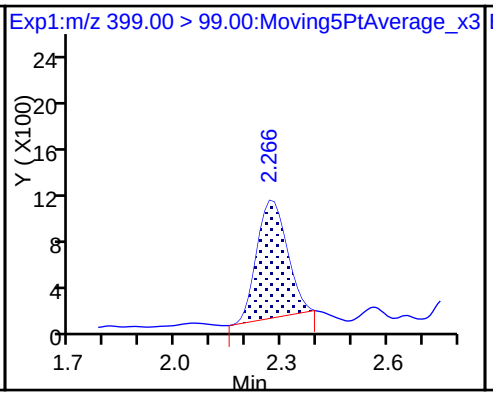
10 Perfluoroheptanoic acid (ND)



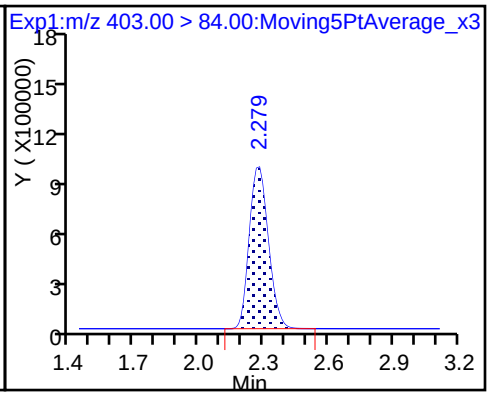
8 Perfluorohexanesulfonic acid



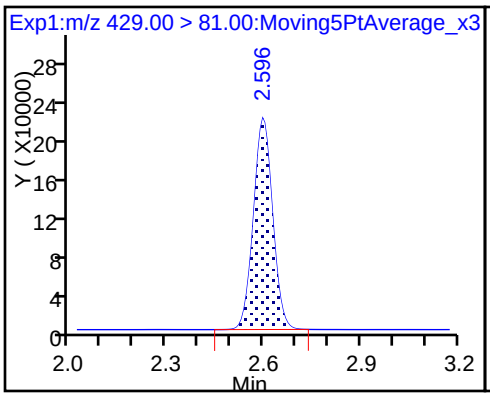
8 Perfluorohexanesulfonic acid



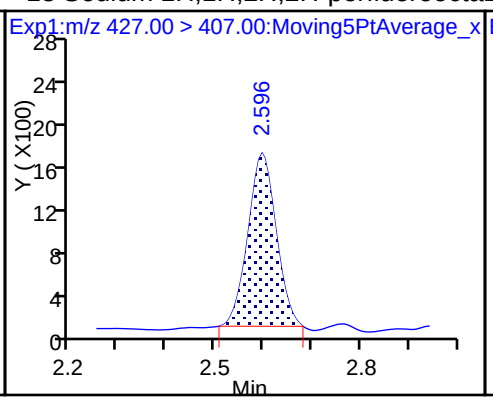
D 11 18O2 PFHxS



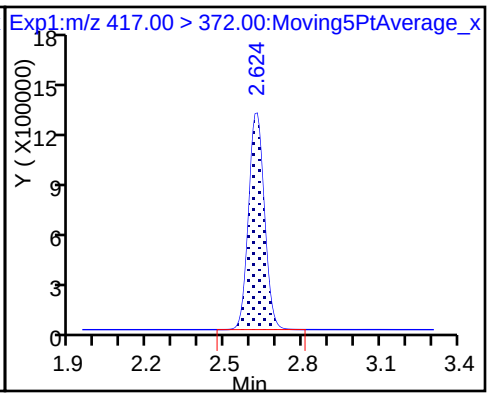
D 12 M2-6:2FTS



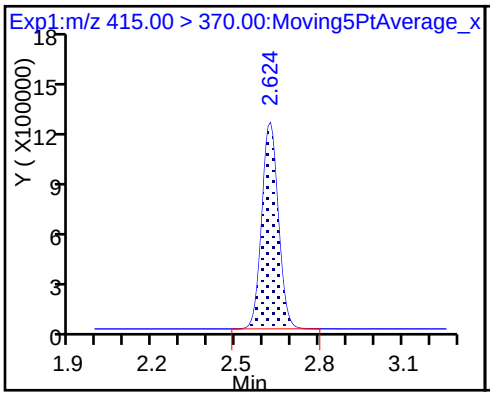
13 Sodium 1H,1H,2H,2H-perfluorooctane



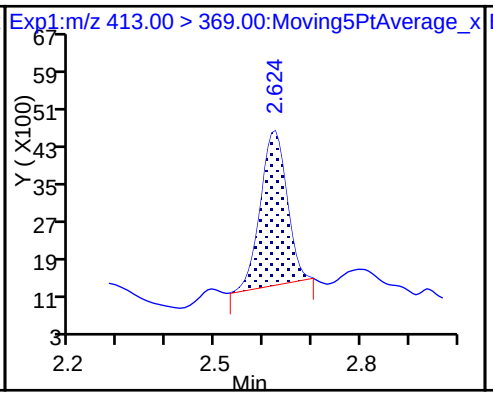
D 14 13C4 PFOA



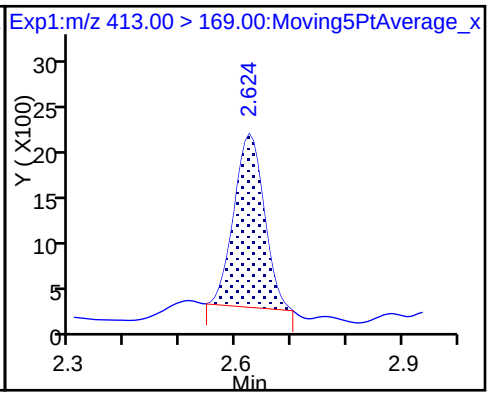
* 62 13C2-PFOA



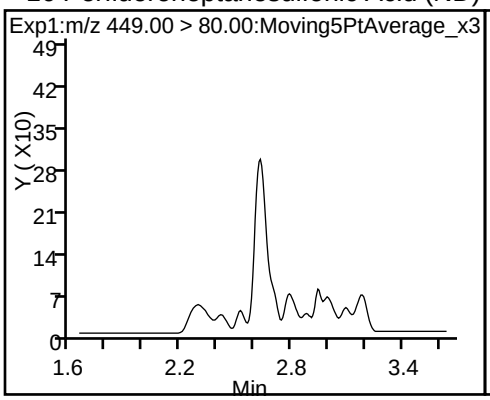
15 Perfluorooctanoic acid



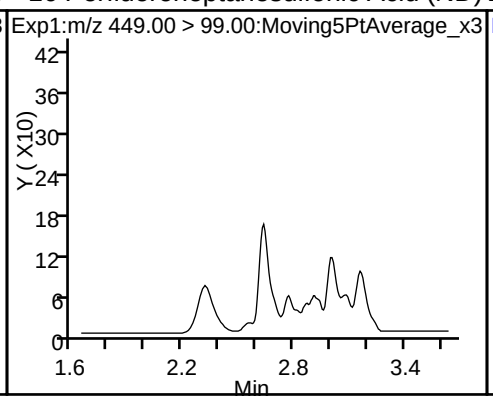
15 Perfluorooctanoic acid



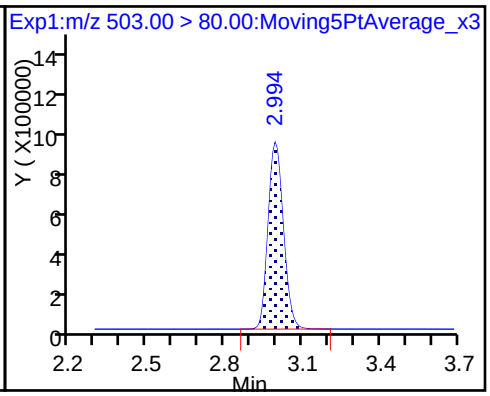
16 Perfluoroheptanesulfonic Acid (ND)



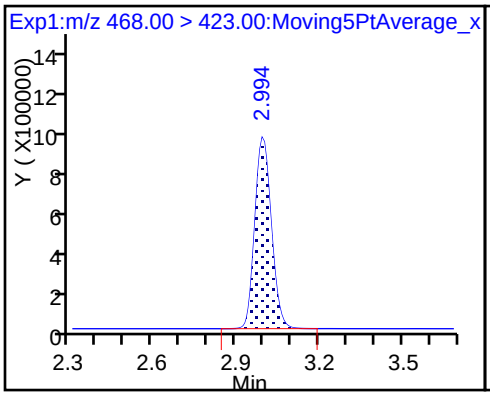
16 Perfluoroheptanesulfonic Acid (ND)



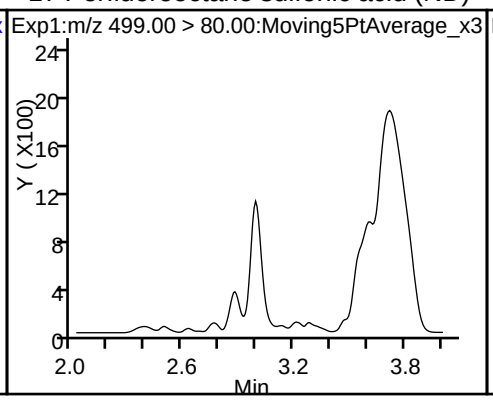
D 18 13C4 PFOS



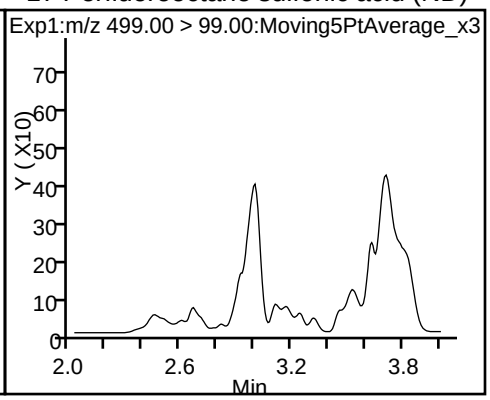
D 19 13C5 PFNA



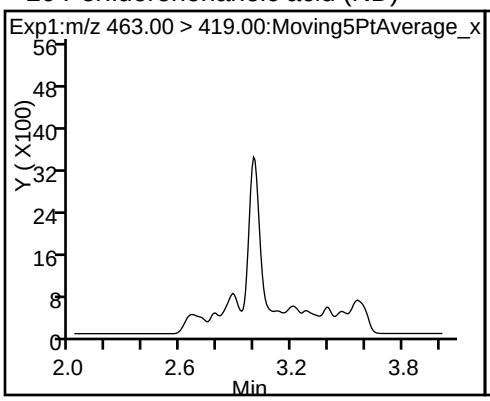
17 Perfluorooctane sulfonic acid (ND)



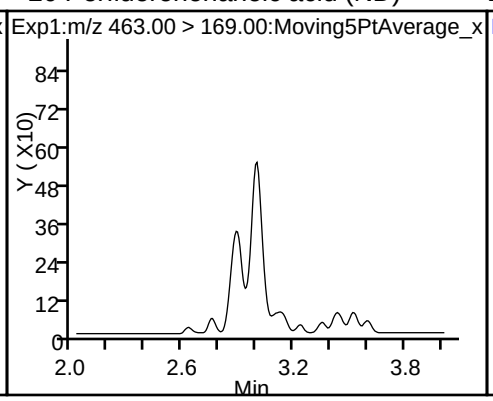
17 Perfluorooctane sulfonic acid (ND)



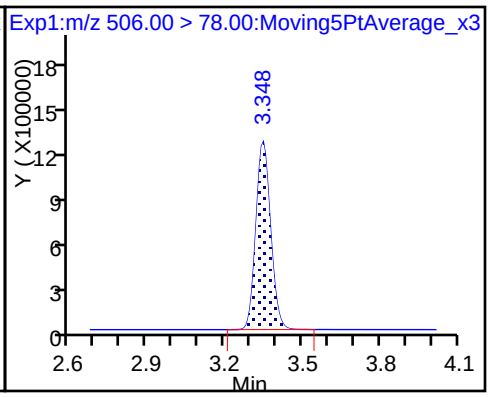
20 Perfluorononanoic acid (ND)



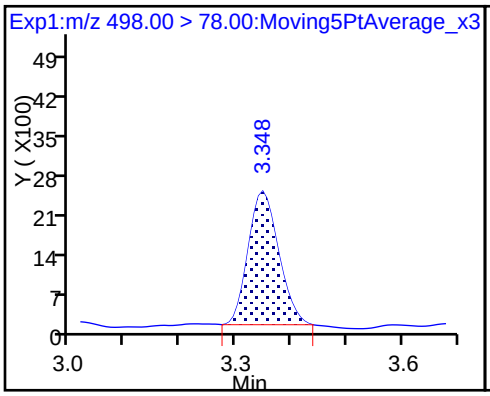
20 Perfluorononanoic acid (ND)



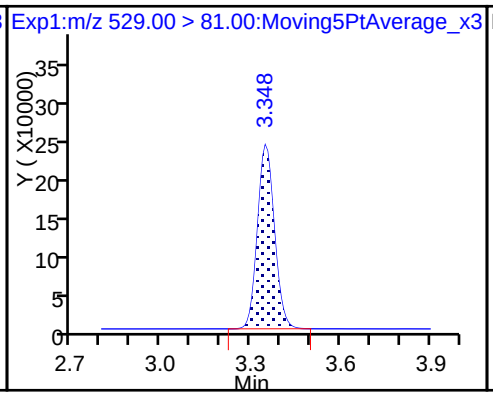
D 21 13C8 FOSA



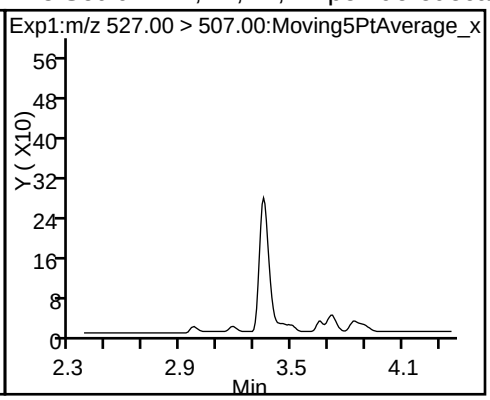
22 Perfluorooctane Sulfonamide



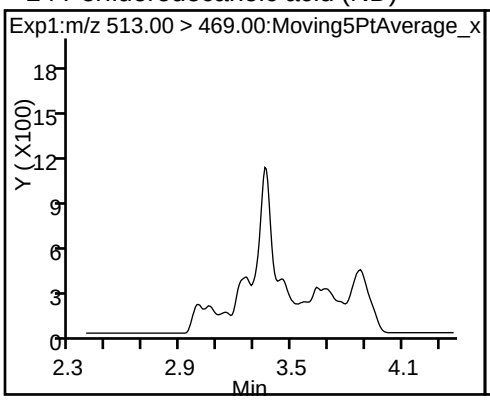
D 26 M2-8:2FTS



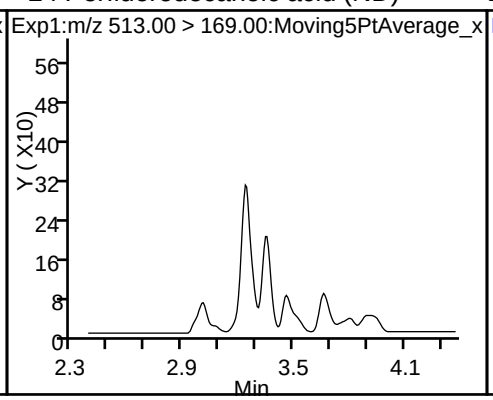
25 Sodium 1H,1H,2H,2H-perfluorodecane (ND)



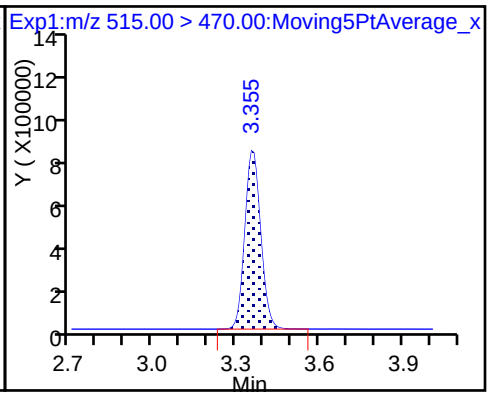
24 Perfluorodecanoic acid (ND)



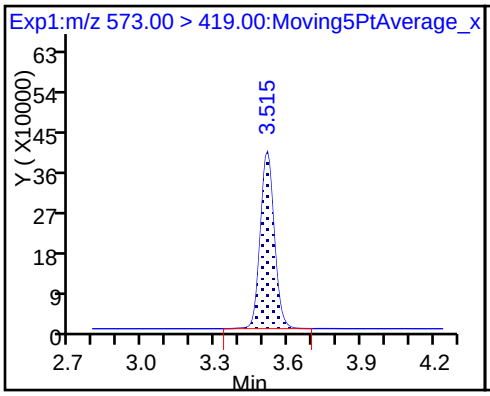
24 Perfluorodecanoic acid (ND)



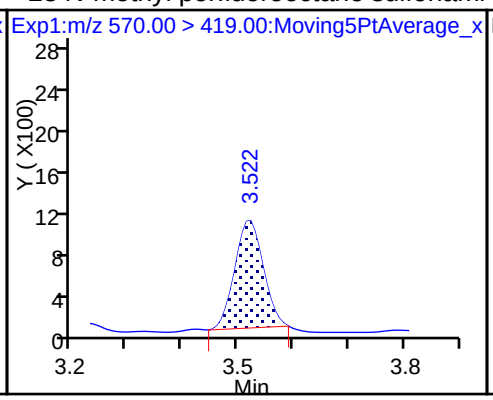
D 23 13C2 PFDA



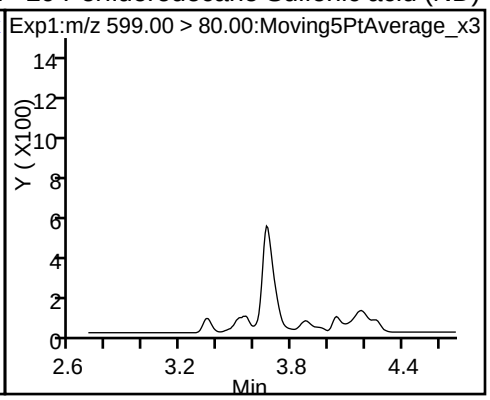
D 27 d3-NMeFOSAA



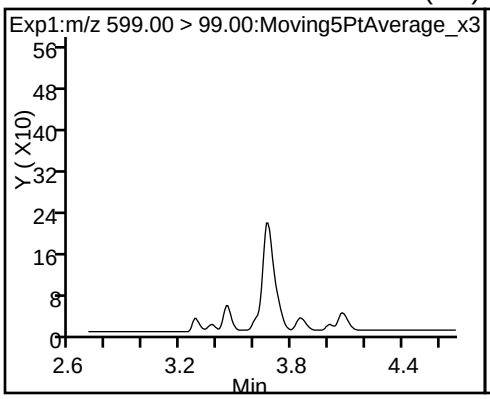
28 N-methyl perfluorooctane sulfonami



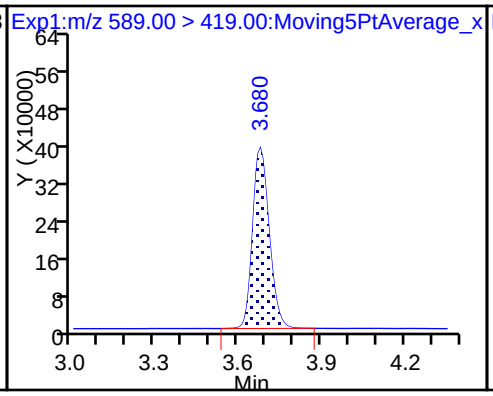
29 Perfluorodecane Sulfonic acid (ND)



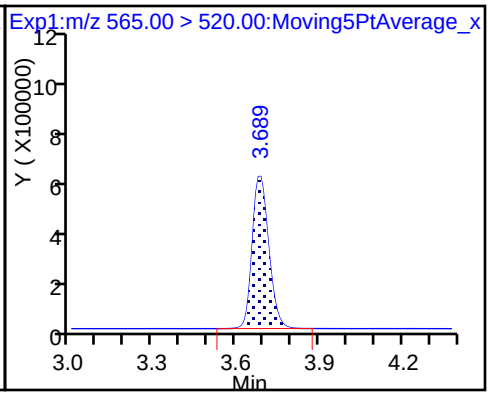
29 Perfluorodecane Sulfonic acid (ND)



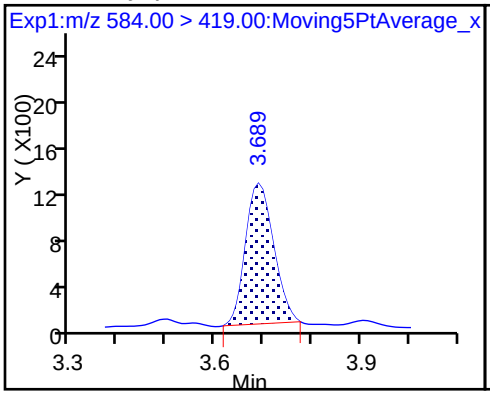
D 32 d5-NEtFOSAA



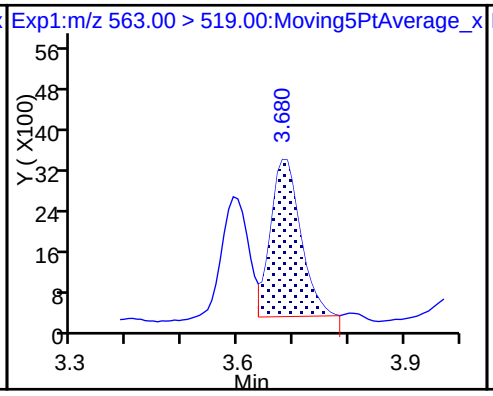
D 30 13C2 PFUnA



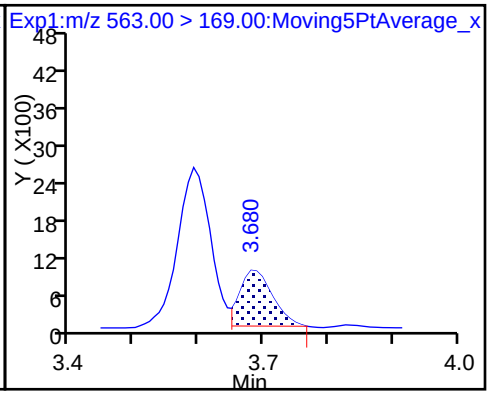
33 N-ethyl perfluorooctane sulfonamid



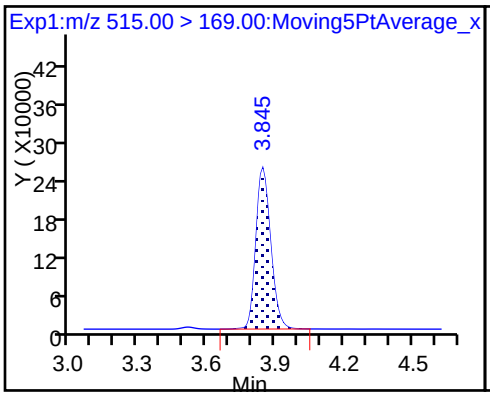
31 Perfluoroundecanoic acid



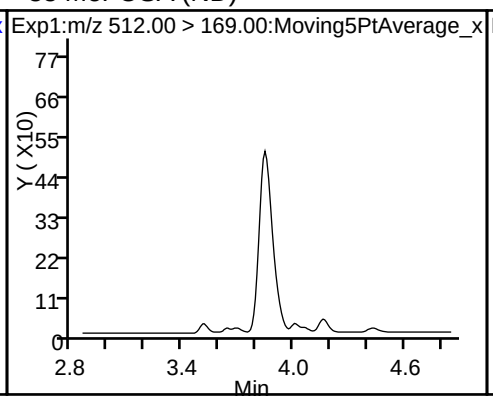
31 Perfluoroundecanoic acid



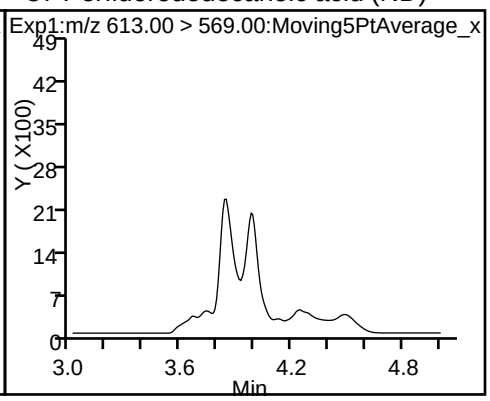
D 34 d-N-MeFOSA-M



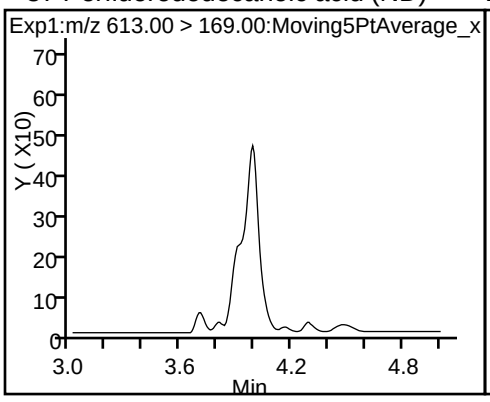
35 MeFOSA (ND)



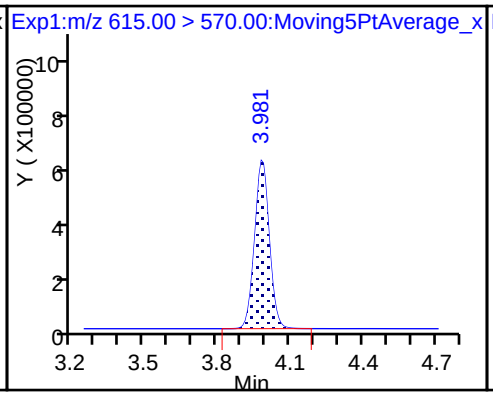
37 Perfluorododecanoic acid (ND)



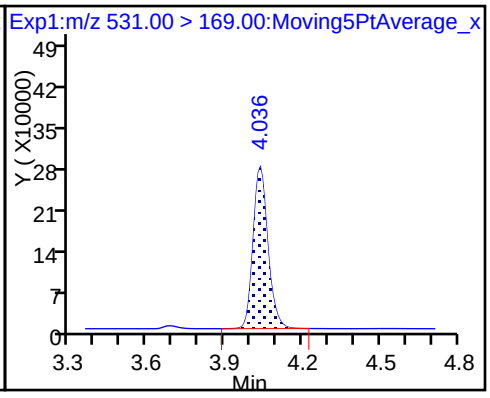
37 Perfluorododecanoic acid (ND)



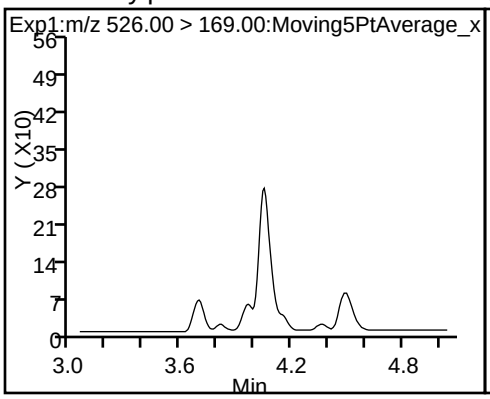
D 36 13C2 PFDoA



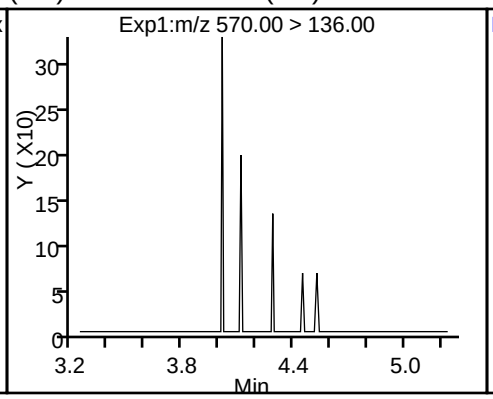
D 38 d-N-EtFOSA-M



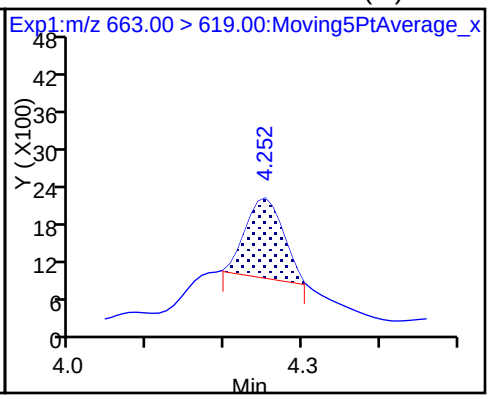
39 N-ethylperfluoro-1-octanesulfonami



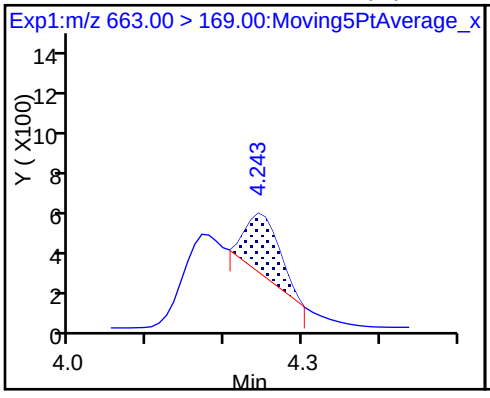
D 40 d-N-EtFOSE-M (ND)



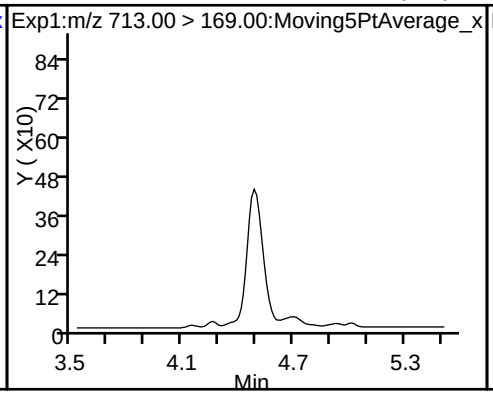
41 Perfluorotridecanoic acid (M)



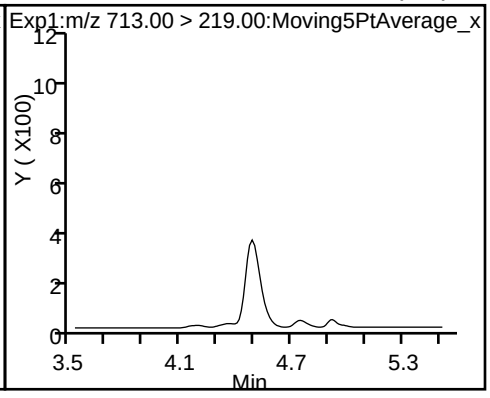
41 Perfluorotridecanoic acid (M)



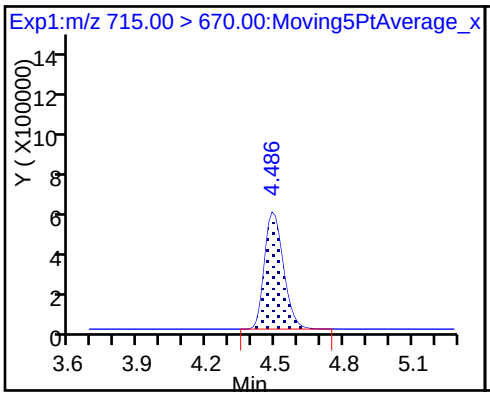
42 Perfluorotetradecanoic acid (ND)



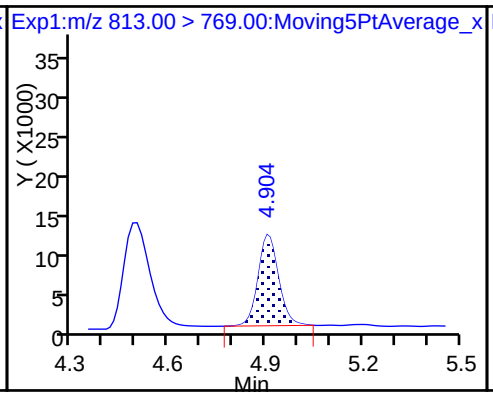
42 Perfluorotetradecanoic acid (ND)



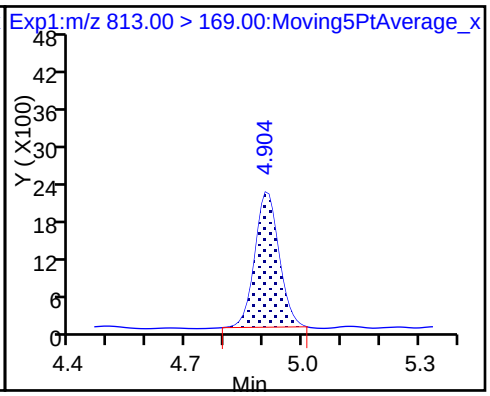
D 43 13C2-PFTeDA



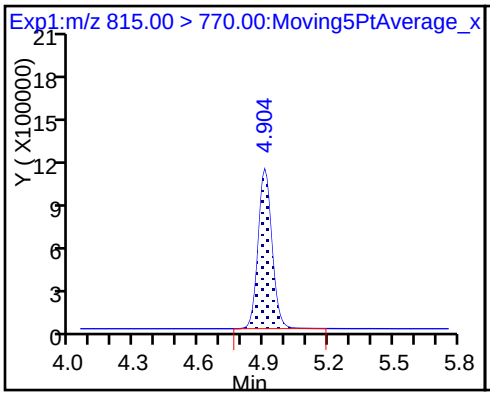
45 Perfluorohexadecanoic acid



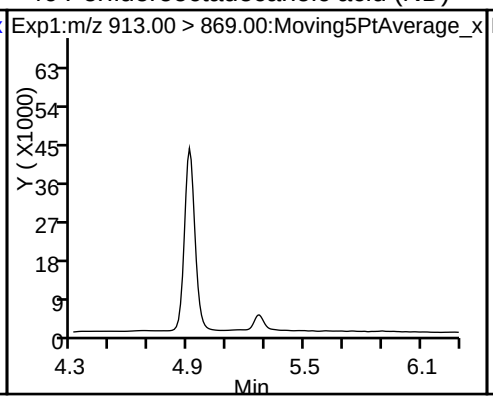
45 Perfluorohexadecanoic acid



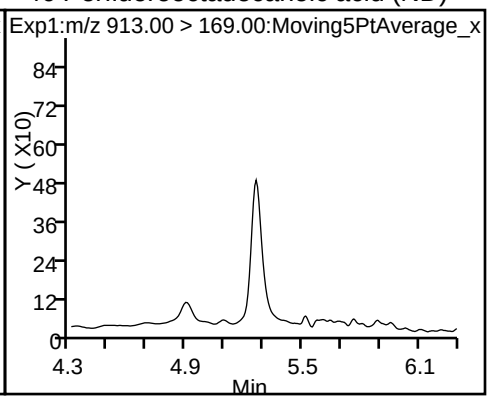
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid (ND)



46 Perfluorooctadecanoic acid (ND)



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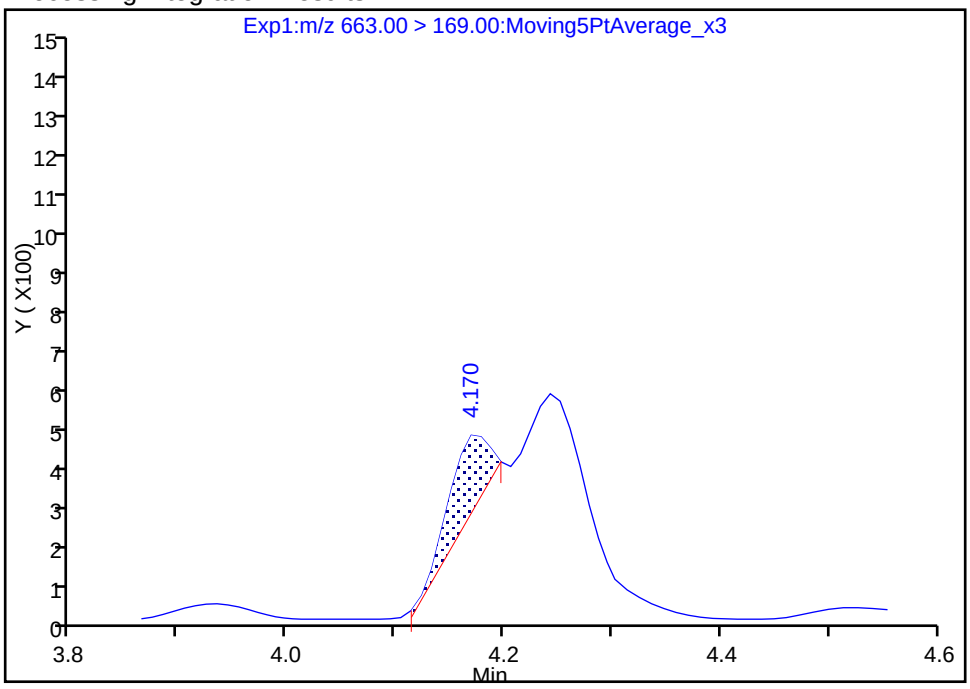
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_002.d
Injection Date: 15-Dec-2017 20:25:55 Instrument ID: A8_N
Lims ID: MB 320-200005/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

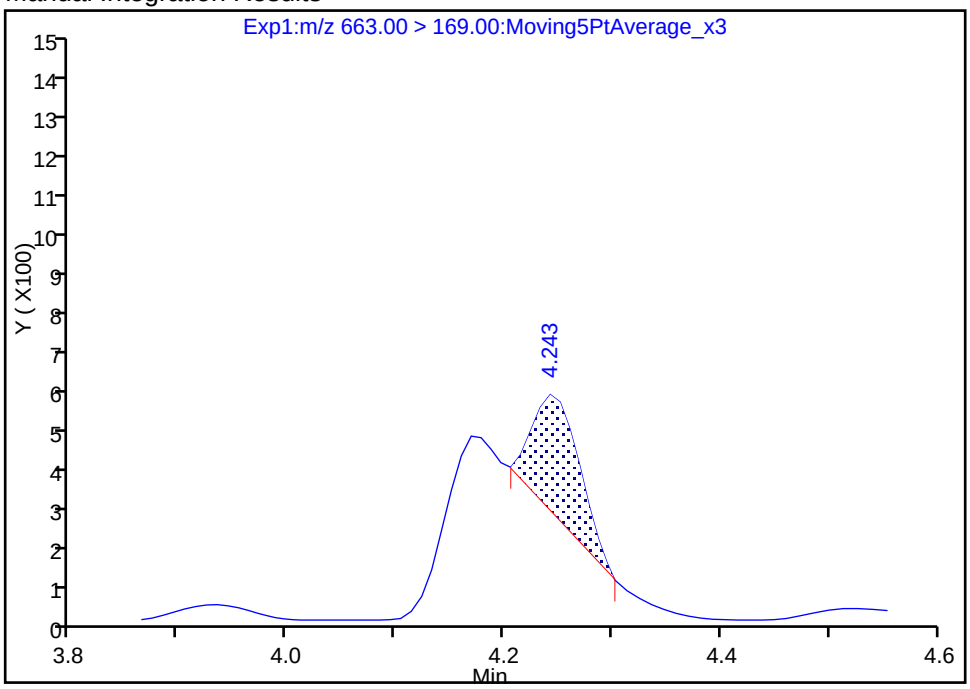
Processing Integration Results

RT: 4.17
Area: 496
Amount: 0.010563
Amount Units: ng/ml



Manual Integration Results

RT: 4.24
Area: 907
Amount: 0.003924
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:38:56
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

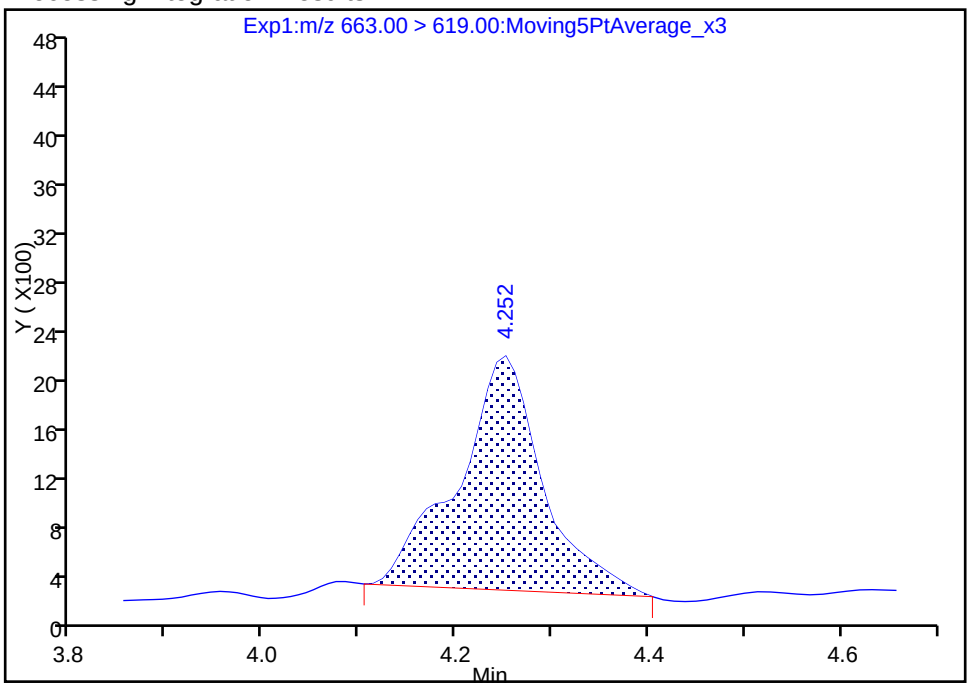
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_002.d
Injection Date: 15-Dec-2017 20:25:55 Instrument ID: A8_N
Lims ID: MB 320-200005/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

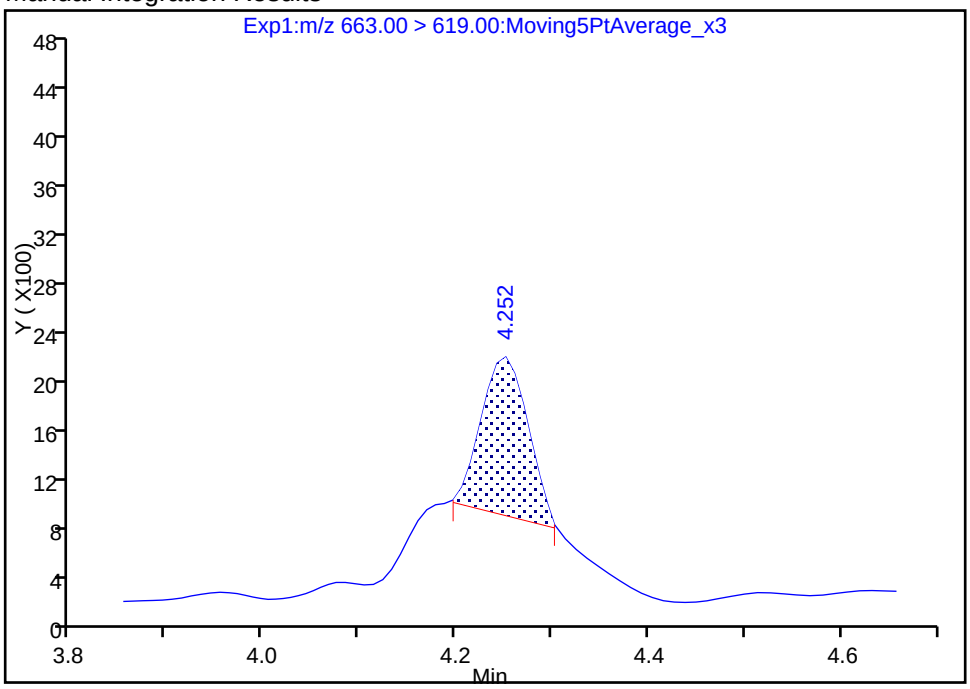
Processing Integration Results

RT: 4.25
Area: 11714
Amount: 0.010563
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 4351
Amount: 0.003924
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:38:56
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

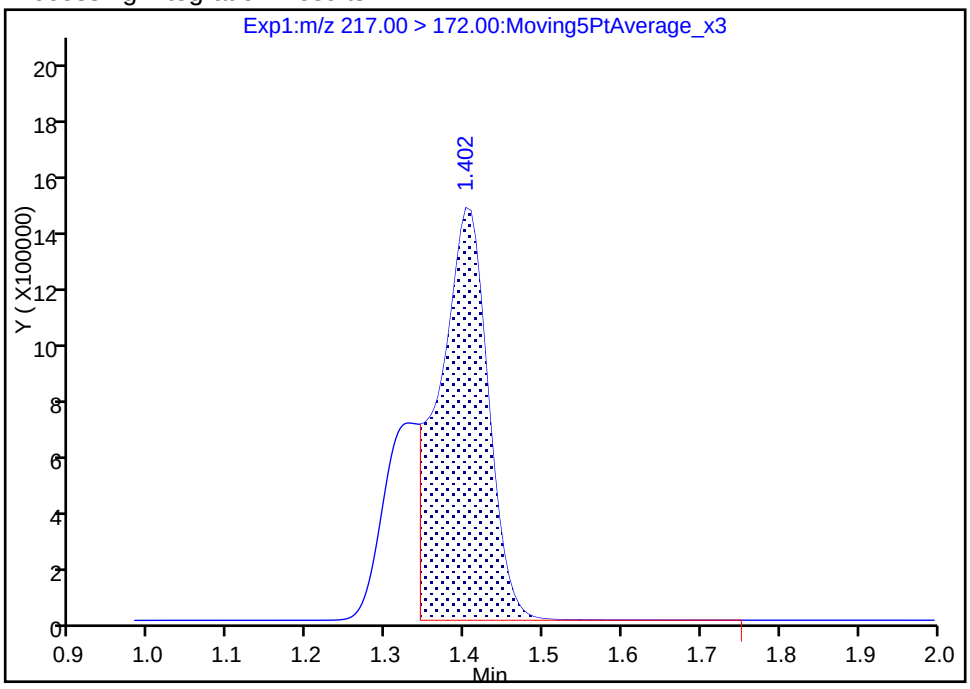
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_002.d
Injection Date: 15-Dec-2017 20:25:55 Instrument ID: A8_N
Lims ID: MB 320-200005/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

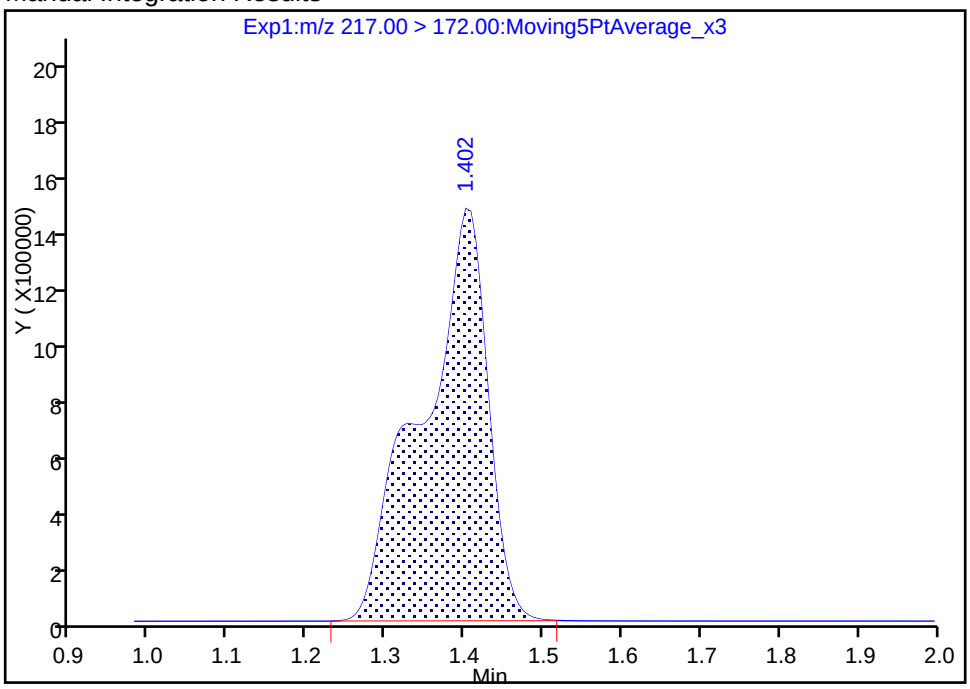
Processing Integration Results

RT: 1.40
Area: 6252100
Amount: 2.143500
Amount Units: ng/ml



Manual Integration Results

RT: 1.40
Area: 8408639
Amount: 2.882859
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:36:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-200005/2-A

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_003.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 250(mL) | Date Analyzed: 12/15/2017 20:33

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	42.0		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	39.7		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	40.2		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	40.6		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	35.7		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	41.0		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	40.8		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	37.1		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	41.0		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	40.8		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	40.9		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	38.4		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	36.6		2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	36.1		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36.2		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	37.3		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	39.8		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-200005/2-A

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_003.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 250(mL) | Date Analyzed: 12/15/2017 20:33

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	113		25-150
STL01893	13C5 PFPeA	117		25-150
STL00993	13C2 PFHxA	112		25-150
STL01892	13C4-PFHpA	113		25-150
STL00990	13C4 PFOA	108		25-150
STL00995	13C5 PFNA	114		25-150
STL00996	13C2 PFDA	116		25-150
STL00997	13C2 PFUnA	113		25-150
STL00998	13C2 PFDoA	111		25-150
STL02116	13C2-PFTeDA	127		25-150
STL02337	13C3-PFBS	109		25-150
STL00994	18O2 PFHxS	108		25-150
STL00991	13C4 PFOS	114		25-150
STL01056	13C8 FOSA	102		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_003.d
Lims ID: LCS 320-200005/2-A
Client ID:
Sample Type: LCS
Inject. Date: 15-Dec-2017 20:33:50 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: lcs 320-200005/2-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 20-Dec-2017 11:40:30 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK050

First Level Reviewer: hannigana Date: 20-Dec-2017 11:40:30

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.407	1.406	0.001	0.535	8220071	2.81		113	14895	M
2 Perfluorobutyric acid										M
212.90 > 169.00	1.407	1.408	-0.001	1.000	3114849	1.05		105	649	M
4 Perfluoropentanoic acid										
262.90 > 219.00	1.652	1.656	-0.004	1.000	2229149	0.99		99.3	2650	
D 3 13C5-PFPeA										
267.90 > 223.00	1.652	1.656	-0.004	0.628	5043561	2.93		117	59214	
D 47 13C3-PFBS										
301.90 > 83.00	1.688	1.690	-0.002	0.642	93487	2.53		109	2884	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.688	1.692	-0.004	1.000	2830223	0.9599		109	13503	
298.90 > 99.00	1.688	1.692	-0.004	1.000	1215433		2.33(1.25-3.74)		7976	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.902	1.902	0.0	1.000	566377	3.35		359	26096	
D 7 13C2 PFHxA										
315.00 > 270.00	1.933	1.938	-0.005	0.735	5028490	2.80		112	45551	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.933	1.939	-0.006	1.000	1992228	1.00		100	4483	
313.00 > 119.00	1.933	1.939	-0.006	1.000	186091		10.71(5.03-15.10)		3330	
D 9 13C4-PFHpA										
367.00 > 322.00	2.265	2.272	-0.008	0.861	4759767	2.82		113	33403	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.265	2.273	-0.009	1.000	2002064	1.01		101	4094	
363.00 > 169.00	2.265	2.273	-0.009	1.000	817203		2.45(1.13-3.40)		5755	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.278	2.285	-0.007	1.000	2285158	0.9159		101	12163	
399.00 > 99.00	2.278	2.285	-0.007	1.000	764875		2.99(1.50-4.49)		5501	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	2.278	2.286	-0.008	0.866	5343577	2.54		108	52692	
D 12 M2-6:2FTS										
429.00 > 81.00	2.601	2.625	-0.024	0.989	858332	0.9362		39.4	23556	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.601	2.625	-0.024	1.000	540592	0.9507		100	14910	
D 14 13C4 PFOA										
417.00 > 372.00	2.630	2.637	-0.007	1.000	5481786	2.69		108	45303	
* 62 13C2-PFOA										
415.00 > 370.00	2.630	2.638	-0.008		4994020	2.50			58373	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.630	2.640	-0.010	1.000	2081432	0.8928		89.3	2412	
413.00 > 169.00	2.630	2.640	-0.010	1.000	1082294		1.92(0.84-2.52)		7632	
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.637	2.644	-0.007	1.000	2015051	0.9028		94.8	29662	
449.00 > 99.00	2.637	2.644	-0.007	1.000	515448		3.91(1.94-5.82)		11613	
D 18 13C4 PFOS										
503.00 > 80.00	3.001	3.014	-0.013	1.141	3617274	2.73		114	35747	
D 19 13C5 PFNA										
468.00 > 423.00	3.001	3.015	-0.014	1.141	3860817	2.86		114	33370	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.001	3.015	-0.014	1.000	1453944	0.9038		97.4	2712	
499.00 > 99.00	3.001	3.015	-0.014	1.000	341607		4.26(2.31-6.93)		3169	
20 Perfluorononanoic acid										
463.00 > 419.00	3.009	3.017	-0.008	1.003	1577979	1.03		103	6051	
463.00 > 169.00	3.009	3.017	-0.008	1.003	377424		4.18(1.90-5.69)		8473	
D 21 13C8 FOSA										
506.00 > 78.00	3.355	3.354	0.001	1.276	4848333	2.55		102	30425	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.355	3.356	-0.001	1.000	1825992	1.00		99.5	22113	
D 26 M2-8:2FTS										
529.00 > 81.00	3.355	3.368	-0.013	1.276	958782	3.15		132	15439	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.355	3.369	-0.014	1.000	446811	0.9169		95.7	18768	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.370	3.379	-0.009	1.002	1263358	1.02		102	8416	
513.00 > 169.00	3.370	3.379	-0.009	1.002	227376		5.56(2.36-7.09)		2069	
D 23 13C2 PFDA										
515.00 > 470.00	3.362	3.379	-0.017	1.278	3201667	2.91		116	39045	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.522	3.535	-0.013	1.339	1478830	2.82		113	18576	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.522	3.538	-0.016	1.000	614235	0.99		99.4	4052	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.671	3.692	-0.021	1.000	838309	0.9326		96.7	15871	
599.00 > 99.00	3.671	3.692	-0.021	1.000	295656		2.84(1.39-4.16)		10520	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.688	3.704	-0.016	1.402	1476280	2.82		113	7469	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 30 13C2 PFUnA										
565.00 > 520.00	3.688	3.709	-0.021	1.402	2367780	2.83		113	35536	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.688	3.710	-0.022	1.000	570165	1.00		100	11303	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.688	3.711	-0.023	1.000	797652	0.9281		92.8	4490	
563.00 > 169.00	3.688	3.711	-0.023	1.000	181515		4.39(0.00-0.00)		9854	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.845	3.850	-0.005	1.462	1247794	2.24		89.7	3363	
35 MeFOSA										
512.00 > 169.00	3.854	3.856	-0.002	1.002	475539	0.9504		95.0	3290	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.989	4.008	-0.019	1.000	993394	1.03		103	3782	
613.00 > 169.00	3.989	4.008	-0.019	1.000	236436		4.20(2.13-6.40)		8249	
D 36 13C2 PFDoA										
615.00 > 570.00	3.989	4.008	-0.019	1.517	2488064	2.78		111	43810	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.036	4.039	-0.003	1.534	1200191	2.33		93.2	2873	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.044	4.047	-0.003	1.002	501051	1.01		101	2595	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.251	4.275	-0.024	1.000	1120776	1.02		102	5565	
663.00 > 169.00	4.251	4.275	-0.024	1.000	321210		3.49(1.25-3.76)		14710	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.500	4.519	-0.019	1.003	313955	1.02		102	9012	
713.00 > 219.00	4.486	4.519	-0.033	1.000	203596		1.54(0.71-2.13)		7139	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.486	4.519	-0.033	1.706	3069653	3.17		127	26452	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.913	4.935	-0.022	1.002	1795405	1.08		108	1245	
813.00 > 169.00	4.913	4.935	-0.022	1.002	298886		6.01(2.86-8.58)		4547	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.904	4.935	-0.031	1.865	4610731	2.59		104	15671	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.267	5.299	-0.032	1.000	2106293	1.01		101	604	
913.00 > 169.00	5.260	5.299	-0.039	0.999	263867		7.98(0.00-0.00)		1907	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 20-Dec-2017 11:40:30 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_003.d

Injection Date: 15-Dec-2017 20:33:50 Instrument ID: A8_N

Lims ID: LCS 320-200005/2-A

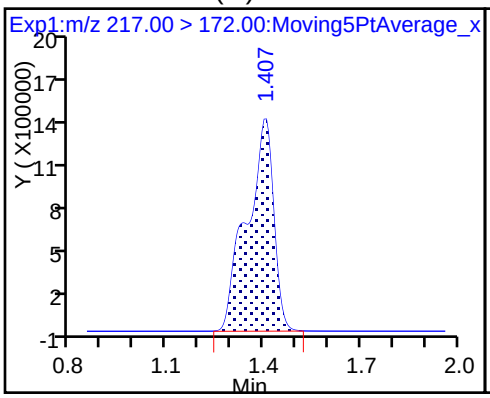
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Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 3

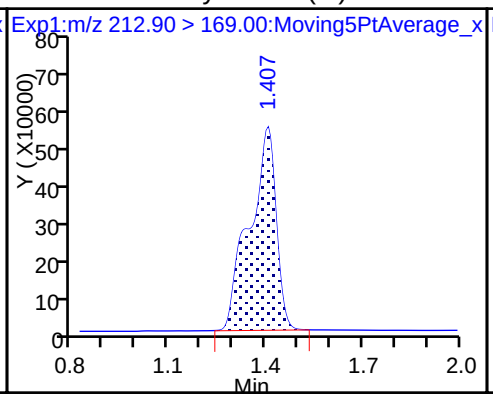
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Method: A8_N Limit Group: LC PFC ICAL

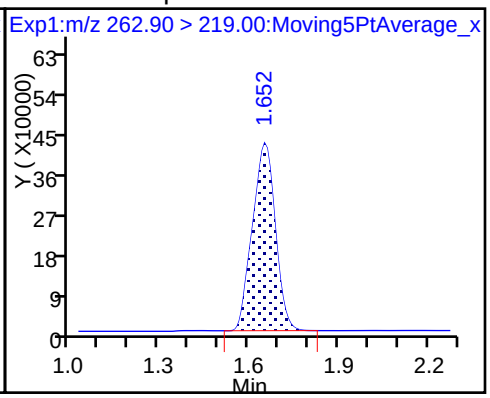
D 1 13C4 PFBA (M)



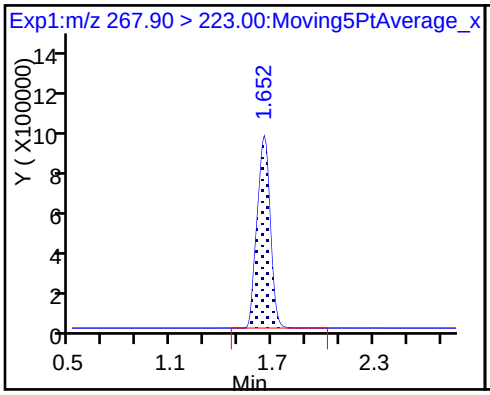
2 Perfluorobutyric acid (M)



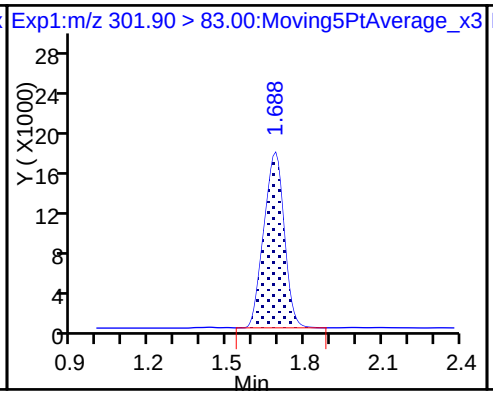
4 Perfluoropentanoic acid



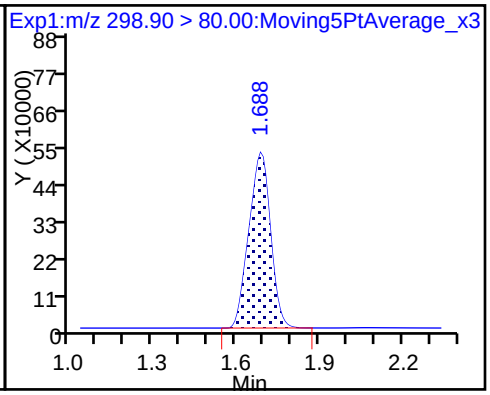
D 3 13C5-PFPeA



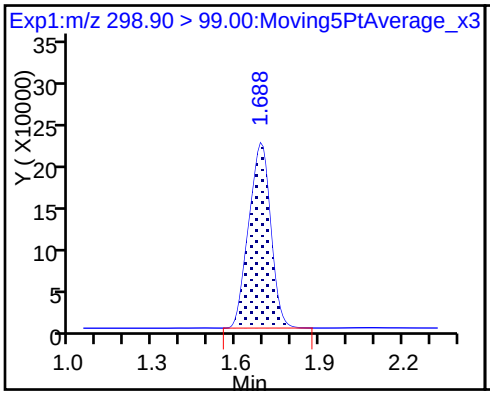
D 47 13C3-PFBS



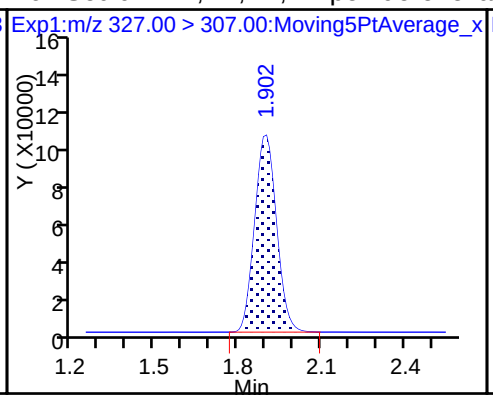
5 Perfluorobutanesulfonic acid



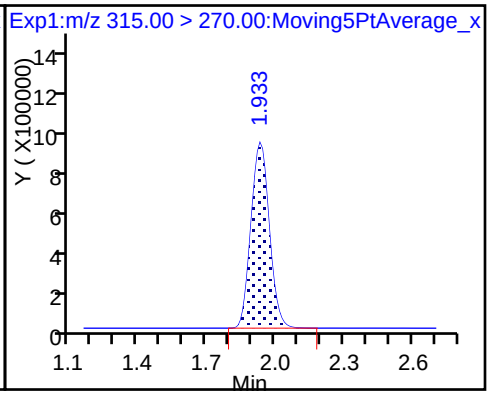
5 Perfluorobutanesulfonic acid



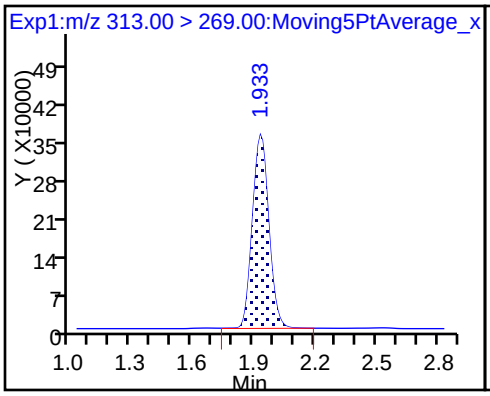
61 Sodium 1H,1H,2H,2H-perfluorohexa



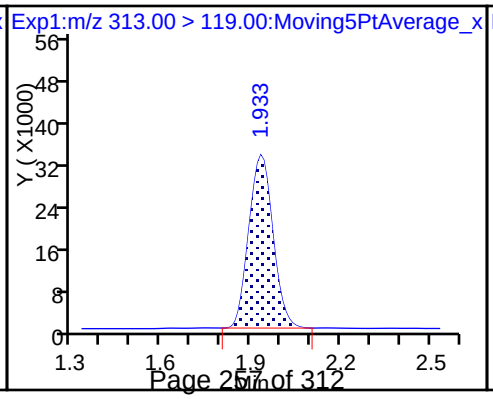
D 7 13C2 PFHxA



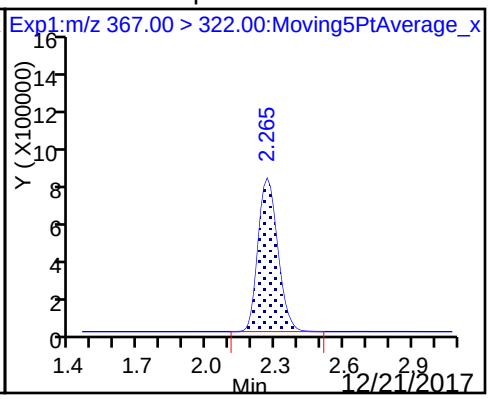
6 Perfluorohexanoic acid



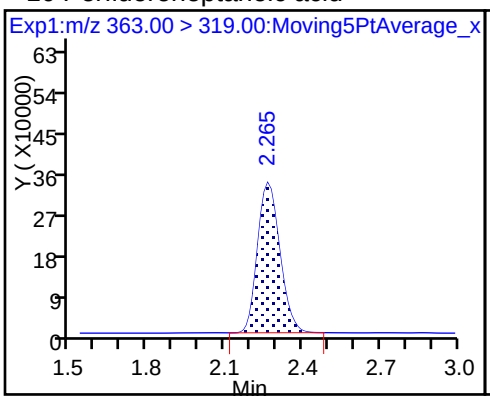
6 Perfluorohexanoic acid



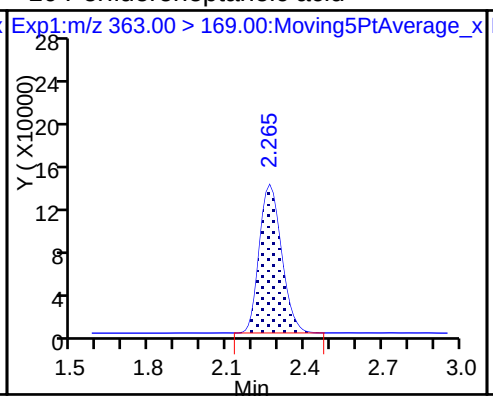
D 9 13C4-PFHpA



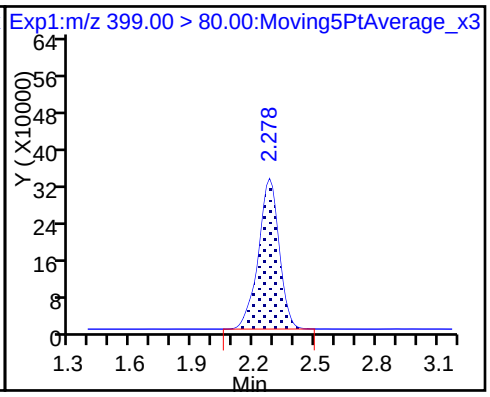
10 Perfluoroheptanoic acid



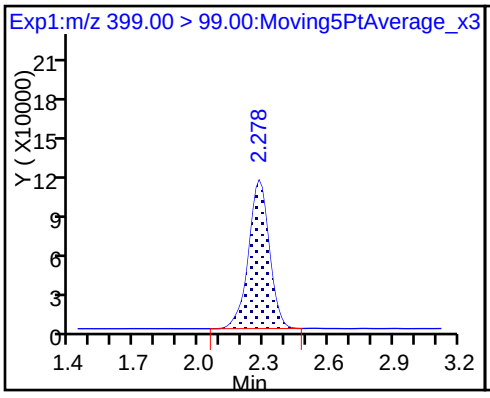
10 Perfluoroheptanoic acid



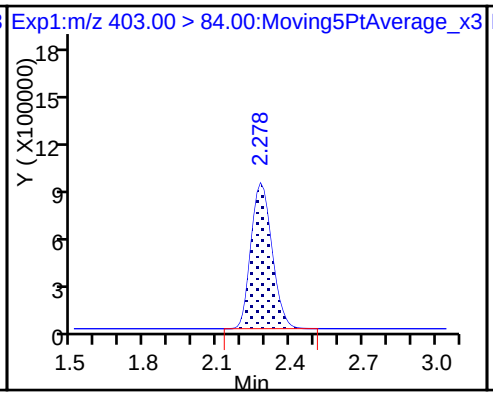
8 Perfluorohexanesulfonic acid



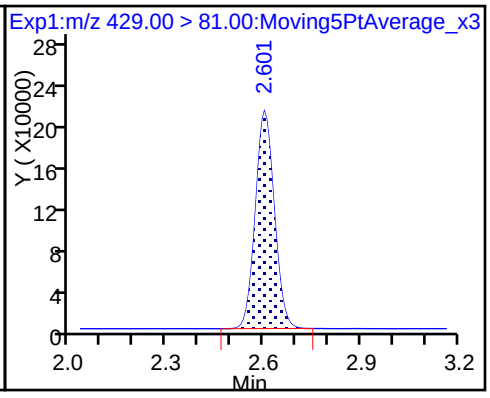
8 Perfluorohexanesulfonic acid



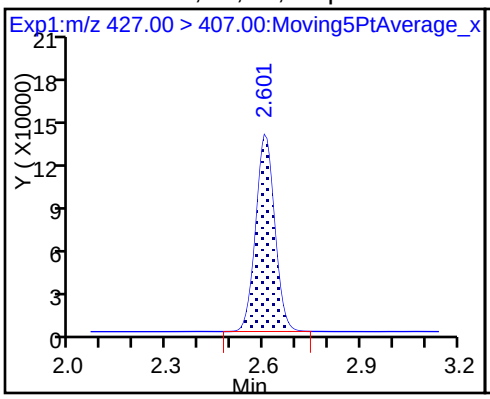
D 11 18O2 PFHxS



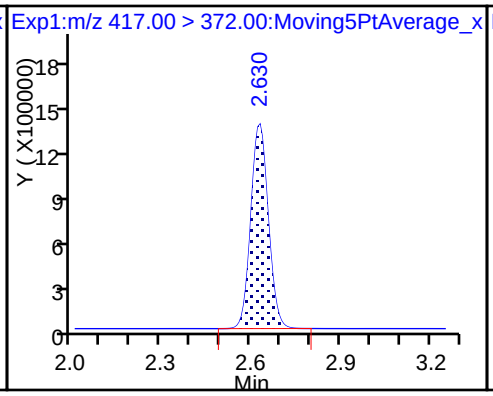
D 12 M2-6:2FTS



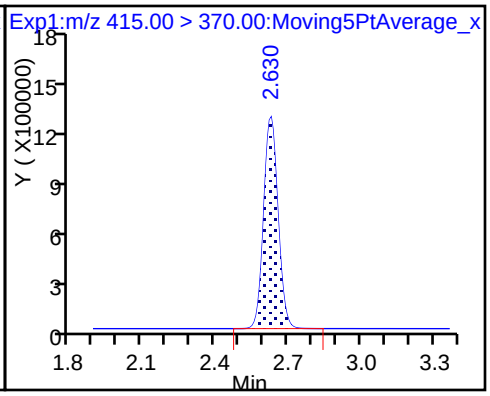
13 Sodium 1H,1H,2H,2H-perfluorooctane



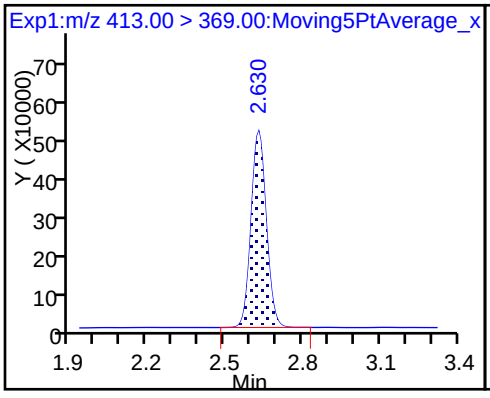
D 14 13C4 PFOA



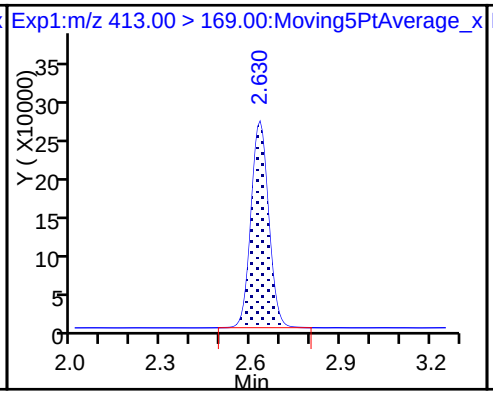
* 62 13C2-PFOA



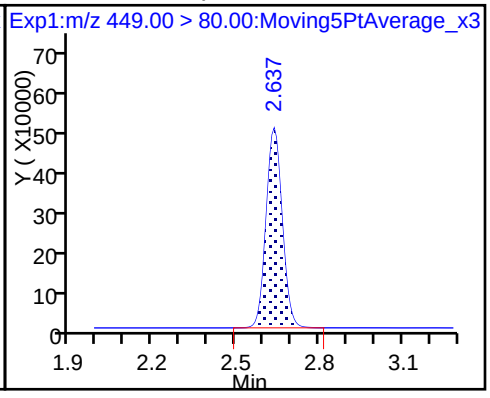
15 Perfluorooctanoic acid



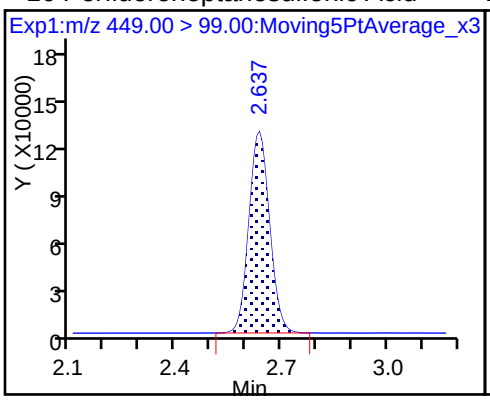
15 Perfluorooctanoic acid



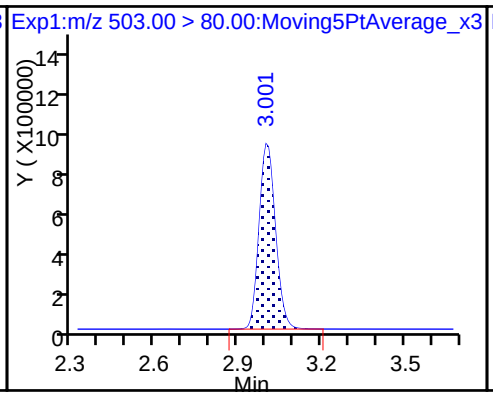
16 Perfluoroheptanesulfonic Acid



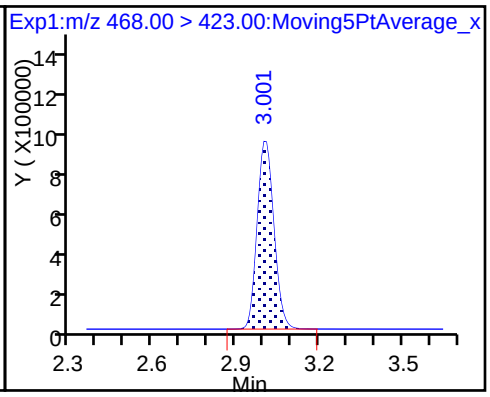
16 Perfluoroheptanesulfonic Acid



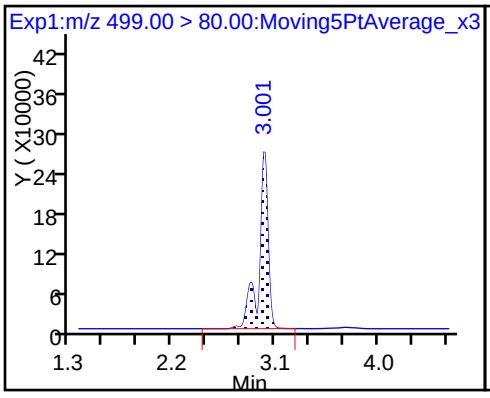
D 18 13C4 PFOS



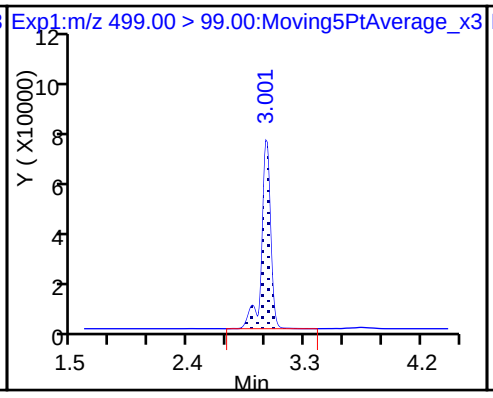
D 19 13C5 PFNA



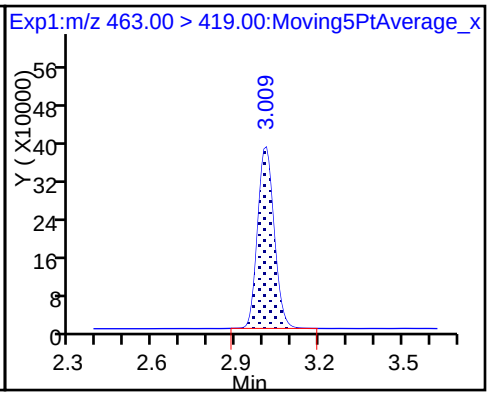
17 Perfluorooctane sulfonic acid



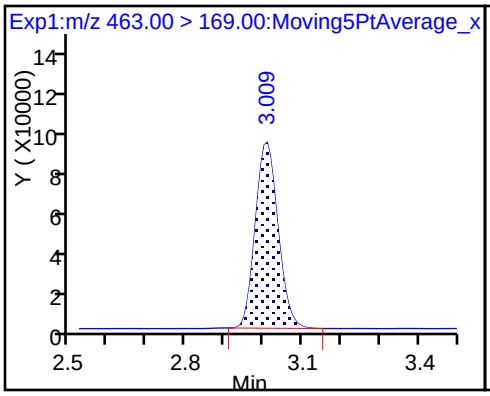
17 Perfluorooctane sulfonic acid



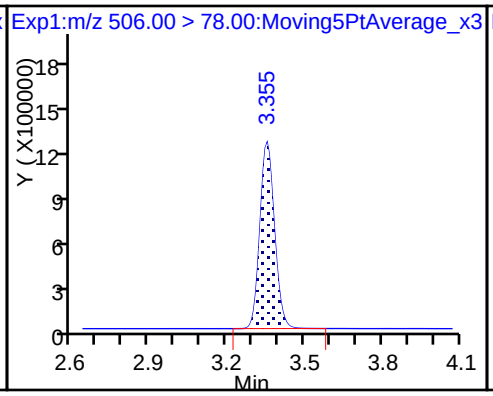
20 Perfluorononanoic acid



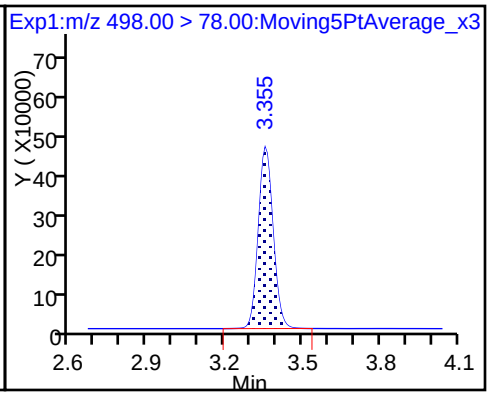
20 Perfluorononanoic acid



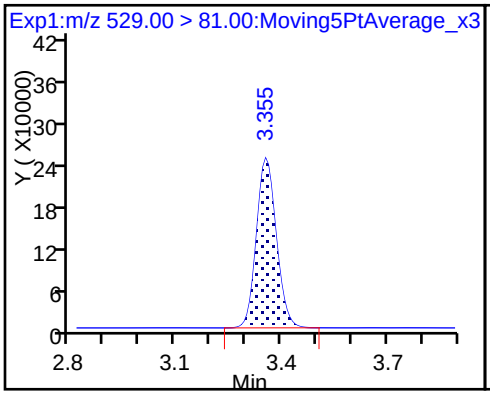
D 21 13C8 FOSA



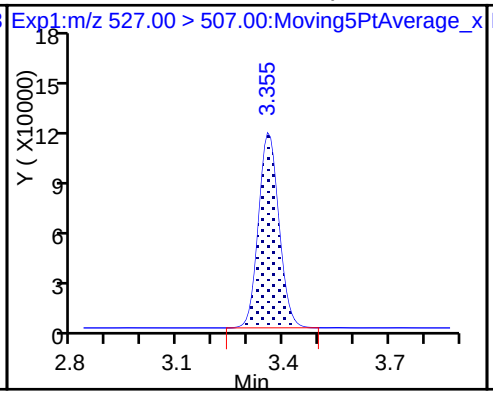
22 Perfluorooctane Sulfonamide



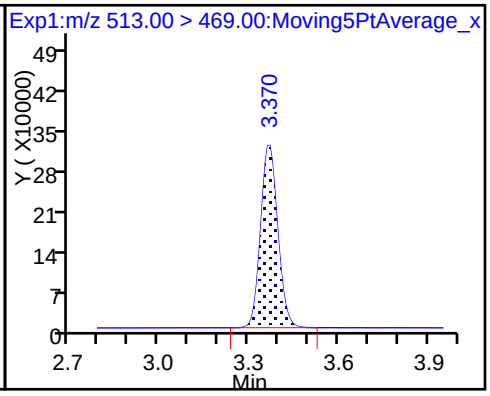
D 26 M2-8:2FTS



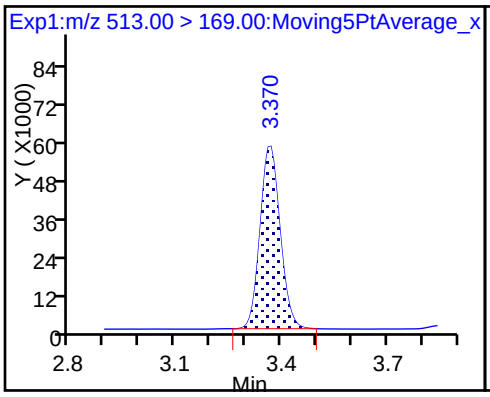
25 Sodium 1H,1H,2H,2H-perfluorodecan



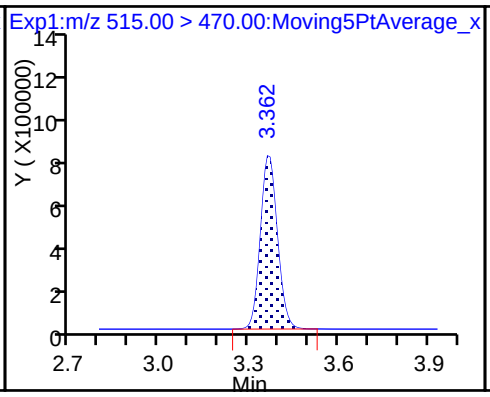
24 Perfluorodecanoic acid



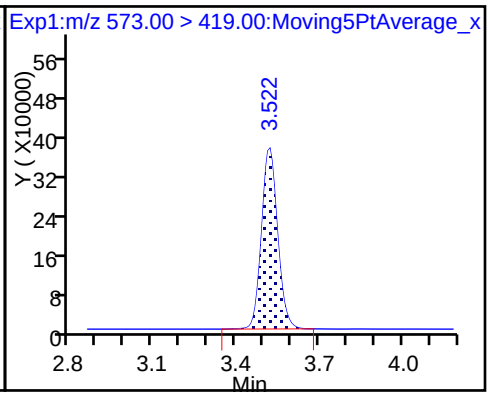
24 Perfluorodecanoic acid



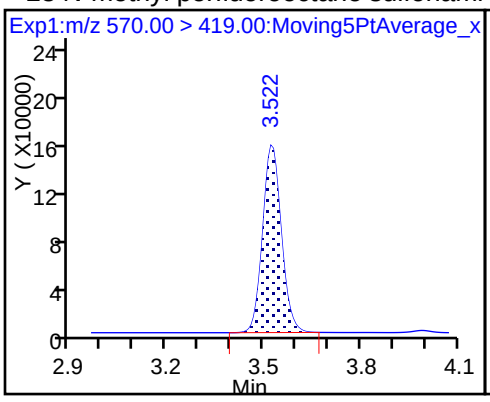
D 23 13C2 PFDA



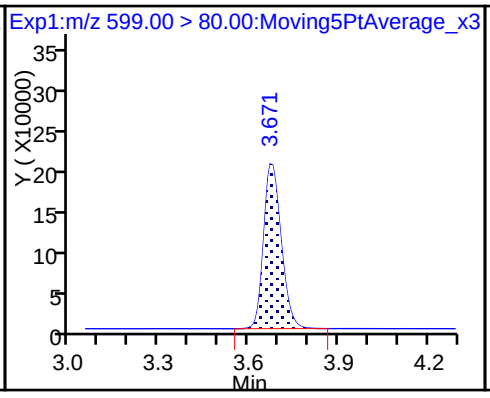
D 27 d3-NMeFOSAA



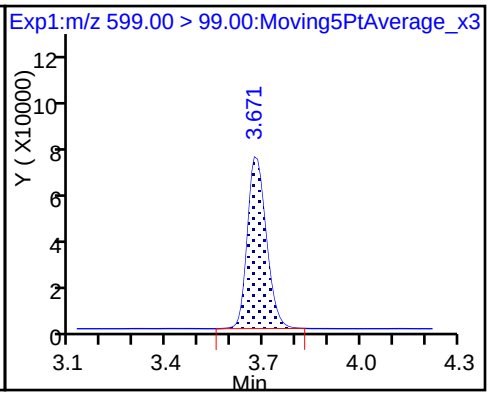
28 N-methyl perfluorooctane sulfonami



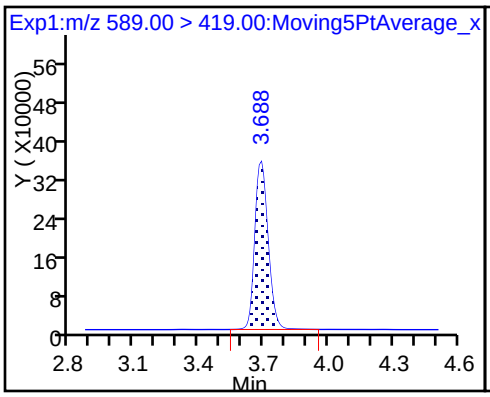
29 Perfluorodecane Sulfonic acid



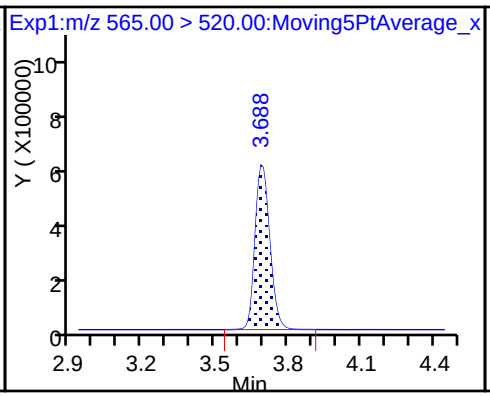
29 Perfluorodecane Sulfonic acid



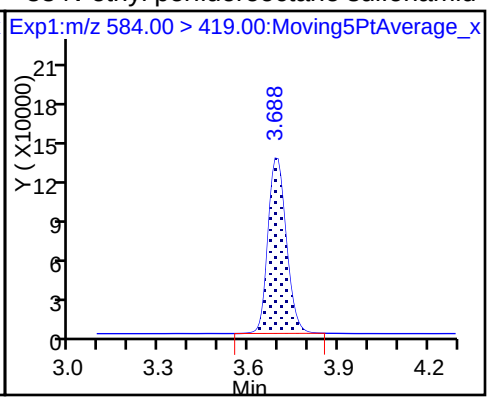
D 32 d5-NEtFOSAA



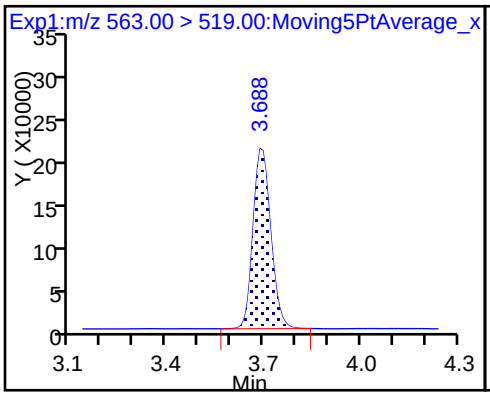
D 30 13C2 PFUnA



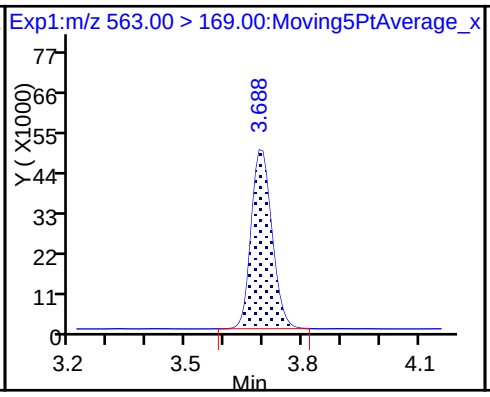
33 N-ethyl perfluorooctane sulfonamid



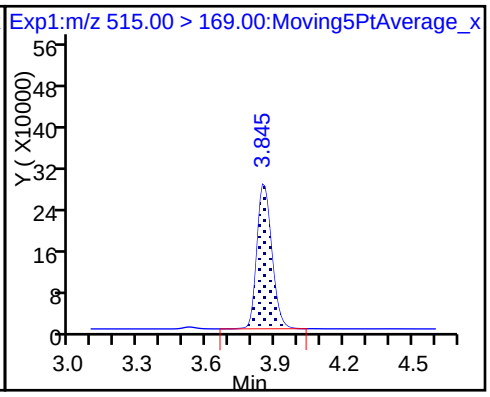
31 Perfluoroundecanoic acid



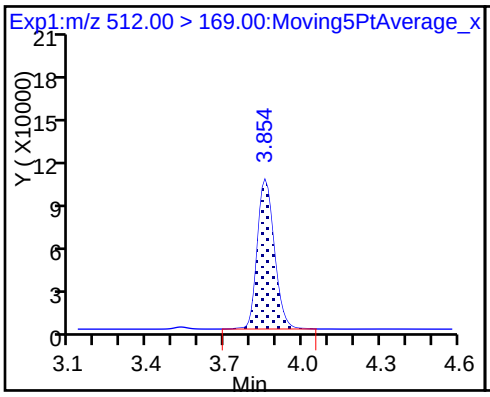
31 Perfluoroundecanoic acid



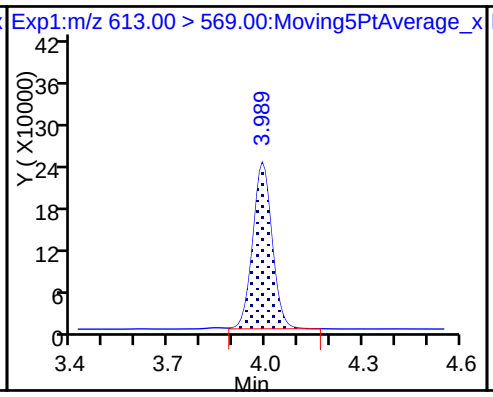
D 34 d-N-MeFOSA-M



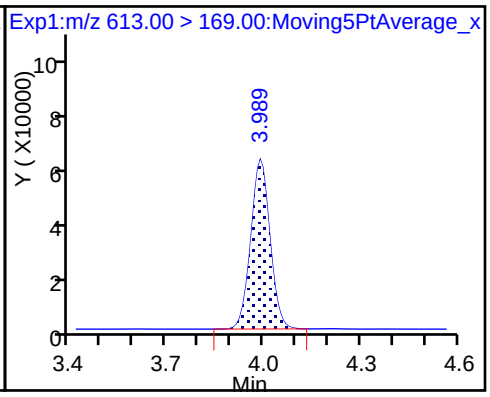
35 MeFOSA



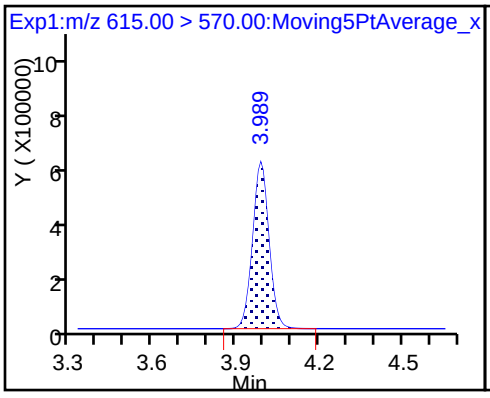
37 Perfluorododecanoic acid



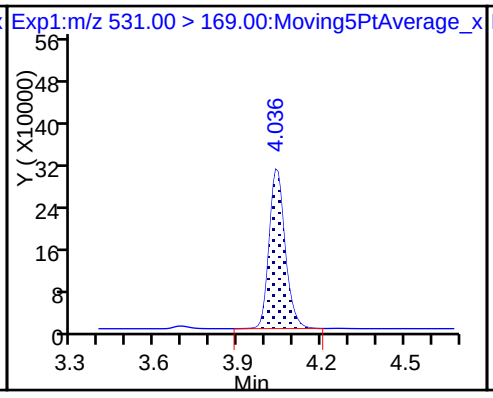
37 Perfluorododecanoic acid



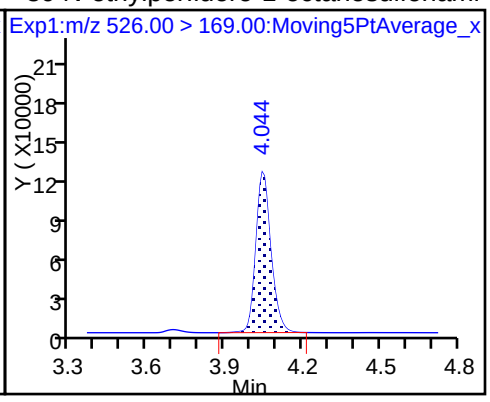
D 36 13C2 PFDoA



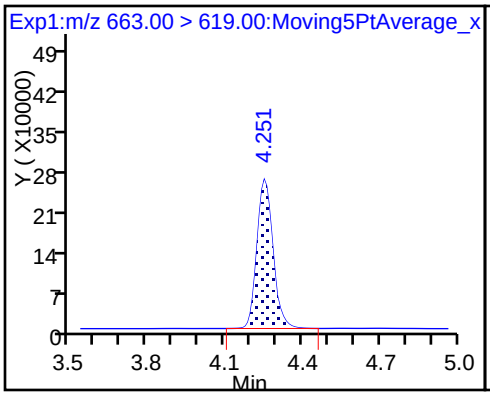
D 38 d-N-EtFOSA-M



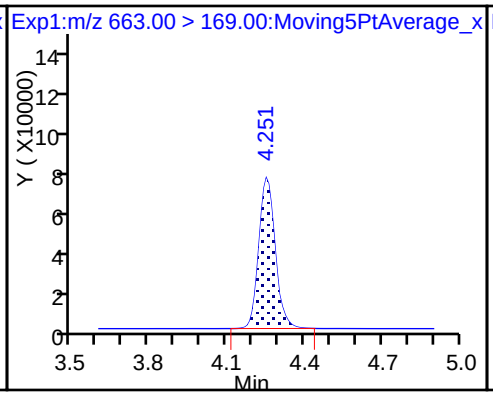
39 N-ethylperfluoro-1-octanesulfonami



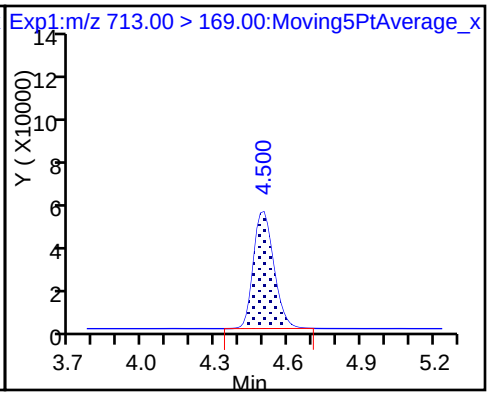
41 Perfluorotridecanoic acid



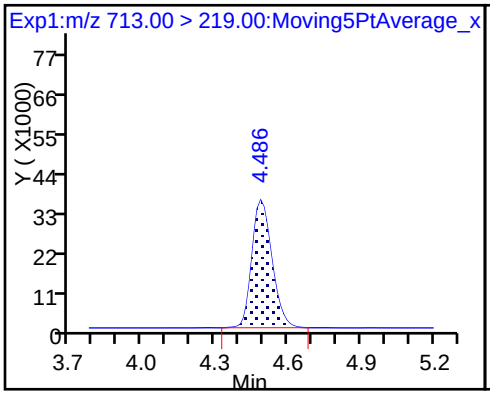
41 Perfluorotridecanoic acid



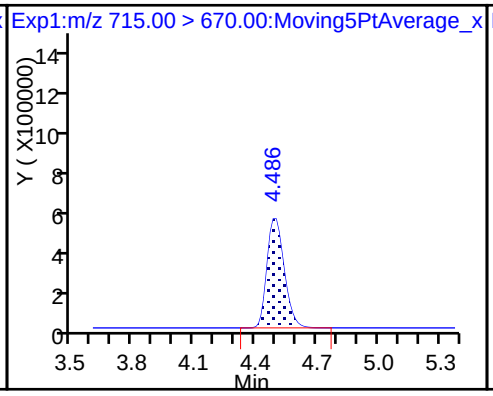
42 Perfluorotetradecanoic acid



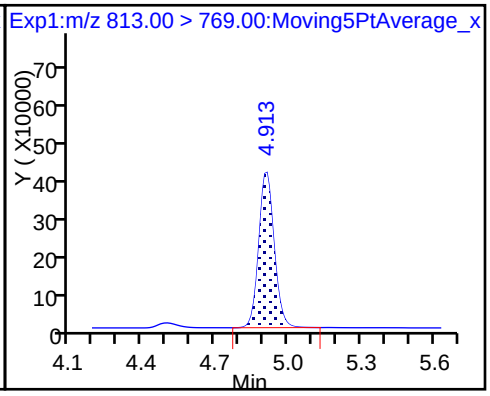
42 Perfluorotetradecanoic acid



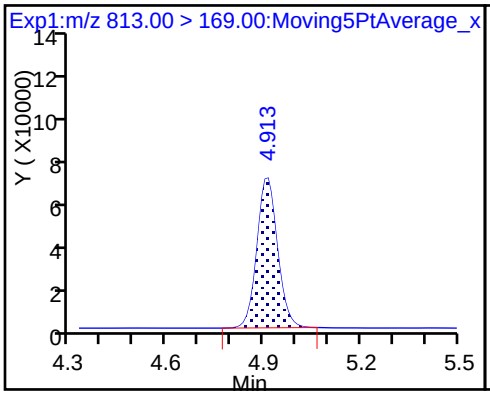
D 43 13C2-PFTeDA



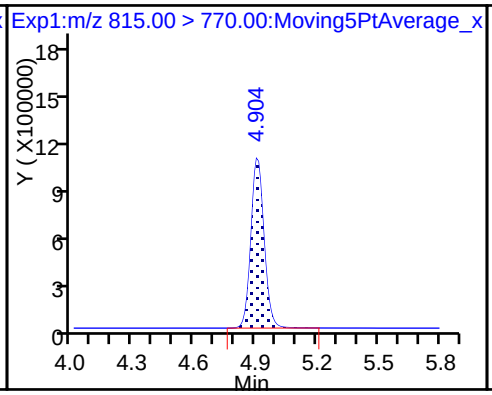
45 Perfluorohexadecanoic acid



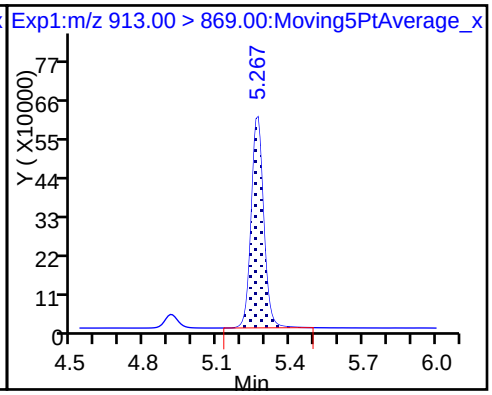
45 Perfluorohexadecanoic acid



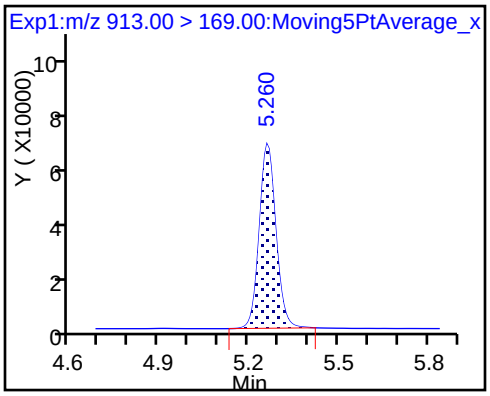
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



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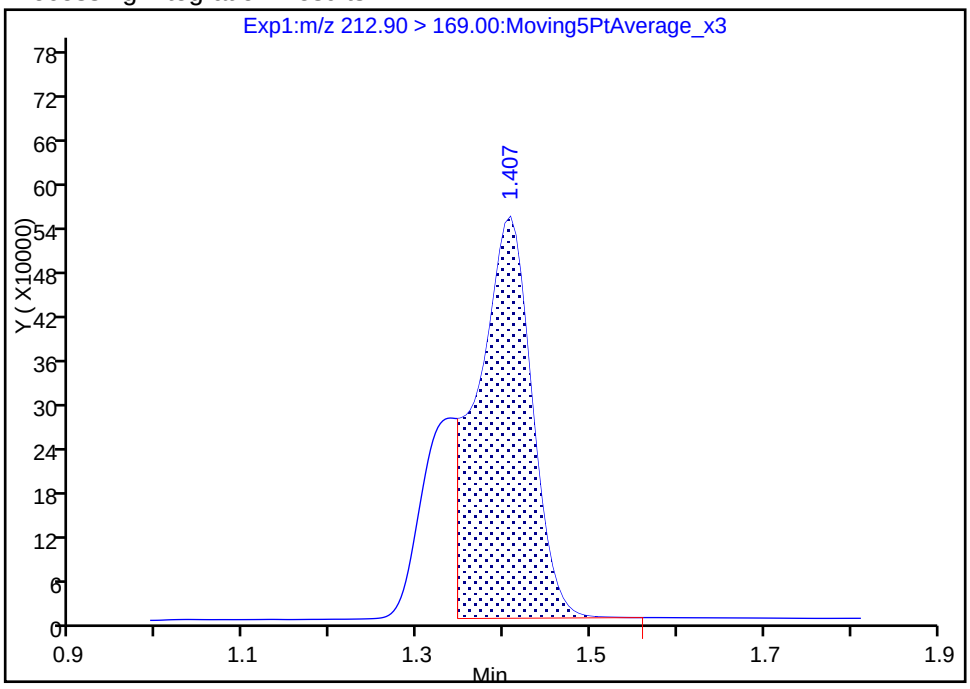
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_003.d
Injection Date: 15-Dec-2017 20:33:50 Instrument ID: A8_N
Lims ID: LCS 320-200005/2-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

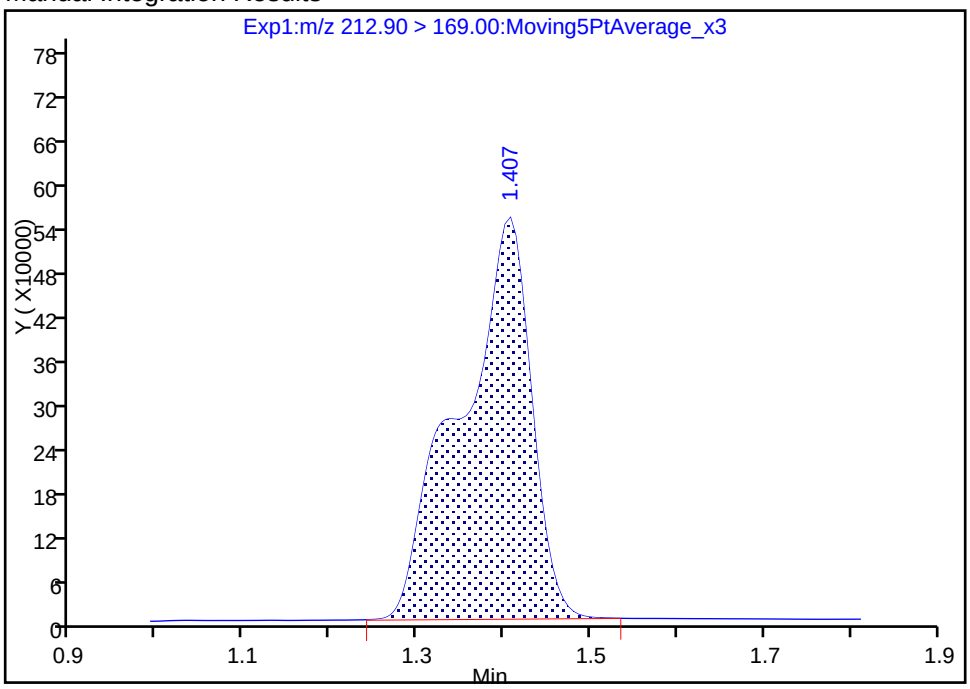
Processing Integration Results

RT: 1.41
Area: 2350276
Amount: 0.792729
Amount Units: ng/ml



Manual Integration Results

RT: 1.41
Area: 3114849
Amount: 1.050613
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:40:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

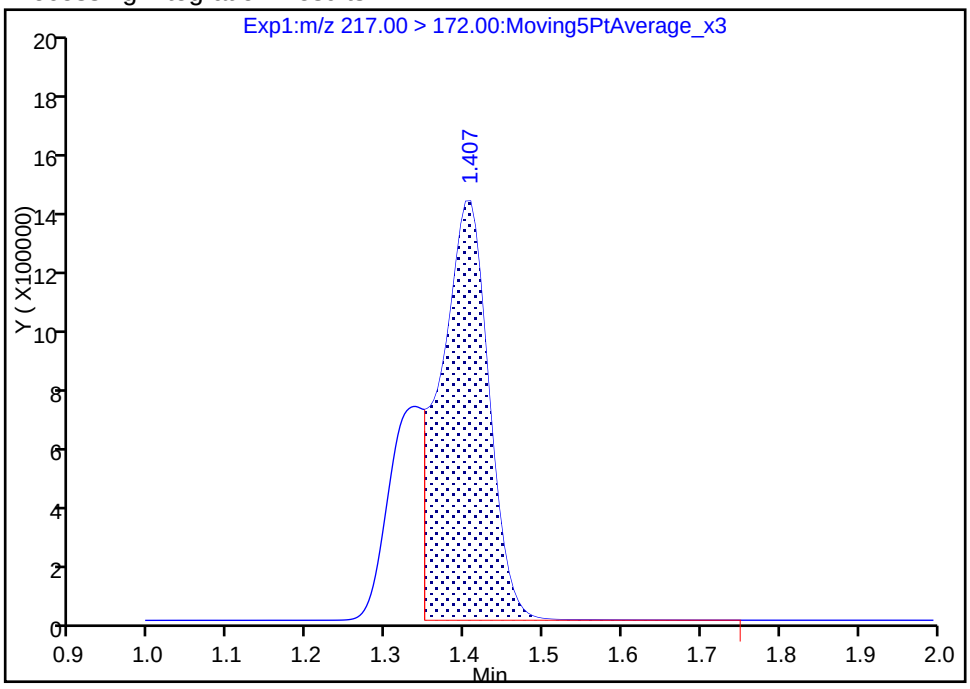
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_003.d
Injection Date: 15-Dec-2017 20:33:50 Instrument ID: A8_N
Lims ID: LCS 320-200005/2-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

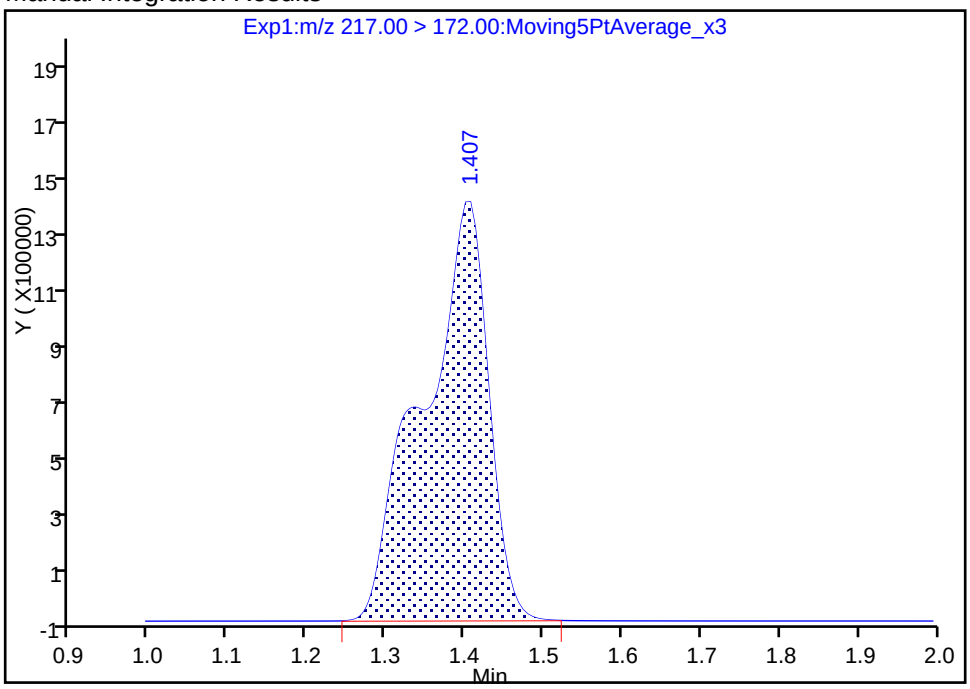
Processing Integration Results

RT: 1.41
Area: 6021109
Amount: 2.060476
Amount Units: ng/ml



Manual Integration Results

RT: 1.41
Area: 8220071
Amount: 2.812980
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:39:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-LDP-01-GW MS | Lab Sample ID: 320-34256-1 MS

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_005.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 09:15

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 249.8(mL) | Date Analyzed: 12/15/2017 20:49

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	52.2		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	38.3		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	40.6		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	40.5		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	39.3		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	38.9		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	39.0		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	37.1		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	39.8		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	40.9		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	37.5		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	47.1		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	35.5		2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	33.6		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36.7		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	36.7		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	39.5		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-LDP-01-GW MS | Lab Sample ID: 320-34256-1 MS

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_005.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 09:15

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 249.8(mL) | Date Analyzed: 12/15/2017 20:49

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	91		25-150
STL01893	13C5 PFPeA	125		25-150
STL00993	13C2 PFHxA	112		25-150
STL01892	13C4-PFHpA	116		25-150
STL00990	13C4 PFOA	105		25-150
STL00995	13C5 PFNA	114		25-150
STL00996	13C2 PFDA	120		25-150
STL00997	13C2 PFUnA	112		25-150
STL00998	13C2 PFDoA	106		25-150
STL02116	13C2-PFTeDA	130		25-150
STL02337	13C3-PFBS	116		25-150
STL00994	18O2 PFHxS	114		25-150
STL00991	13C4 PFOS	114		25-150
STL01056	13C8 FOSA	108		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_005.d
Lims ID: 320-34256-A-1-B MS
Client ID: NS-LDP-01-GW
Sample Type: MS
Inject. Date: 15-Dec-2017 20:49:40 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-34256-a-1-b ms
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 20-Dec-2017 11:43:58 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK050

First Level Reviewer: hannigana Date: 20-Dec-2017 11:43:58

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.408	1.406	0.002	0.536	6863687	2.28		91.1	14433	M
2 Perfluorobutyric acid										M
212.90 > 169.00	1.408	1.408	0.0	1.000	3228327	1.30		130	522	M
4 Perfluoropentanoic acid										
262.90 > 219.00	1.653	1.656	-0.003	1.000	2370082	0.9568		95.7	976	
D 3 13C5-PFPeA										
267.90 > 223.00	1.653	1.656	-0.003	0.629	5567321	3.14		125	54682	
D 47 13C3-PFBS										
301.90 > 83.00	1.688	1.690	-0.002	0.642	102702	2.70		116	1866	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.688	1.692	-0.004	1.000	3807187	1.18		133	5043	
298.90 > 99.00	1.688	1.692	-0.004	1.000	1571294		2.42(1.25-3.74)		4477	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.892	1.902	-0.010	1.000	790984	4.05		433	29077	
D 60 M2-4:2FTS										
329.00 > 81.00	1.912	1.918	-0.006	0.728	1150	0.005739		0.0	40.5	
D 7 13C2 PFHxA										
315.00 > 270.00	1.933	1.938	-0.005	0.735	5190367	2.80		112	37719	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.933	1.939	-0.006	1.000	2076439	1.01		101	2264	
313.00 > 119.00	1.933	1.939	-0.006	1.000	194255		10.69(5.03-15.10)		2887	
D 9 13C4-PFHpA										
367.00 > 322.00	2.265	2.272	-0.007	0.862	5026668	2.89		116	44761	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.265	2.273	-0.008	1.000	2106000	1.01		101	3140	
363.00 > 169.00	2.265	2.273	-0.008	1.000	777029		2.71(1.13-3.40)		6499	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.278	2.285	-0.007	1.000	2407244	0.8861		97.4	3092	
399.00 > 99.00	2.278	2.285	-0.007	1.000	807651		2.98(1.50-4.49)		2813	
D 11 18O2 PFHxS										
403.00 > 84.00	2.278	2.286	-0.008	0.867	5818448	2.69		114	51338	
D 12 M2-6:2FTS										
429.00 > 81.00	2.601	2.625	-0.024	0.990	992884	1.05		44.2	8306	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.601	2.625	-0.024	1.000	611168	0.9292		98.0	12683	
D 14 13C4 PFOA										
417.00 > 372.00	2.621	2.637	-0.016	0.997	5496246	2.61		105	58877	
* 62 13C2-PFOA										
415.00 > 370.00	2.628	2.638	-0.010		5149709	2.50			55495	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.628	2.640	-0.012	1.003	2295630	0.9821		98.2	2158	
413.00 > 169.00	2.628	2.640	-0.012	1.003	1250177		1.84(0.84-2.52)		6457	M
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.635	2.644	-0.009	1.000	1927028	0.8391		88.1	19762	
449.00 > 99.00	2.635	2.644	-0.009	1.000	534806		3.60(1.94-5.82)		7328	
D 18 13C4 PFOS										
503.00 > 80.00	2.999	3.014	-0.015	1.141	3721963	2.72		114	27913	
D 19 13C5 PFNA										
468.00 > 423.00	2.999	3.015	-0.016	1.141	3976640	2.86		114	34657	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	2.999	3.015	-0.016	1.000	1517407	0.9167		98.8	3141	
499.00 > 99.00	2.999	3.015	-0.016	1.000	328535		4.62(2.31-6.93)		2085	
20 Perfluorononanoic acid										
463.00 > 419.00	2.999	3.017	-0.018	1.000	1540435	0.9719		97.2	4838	
463.00 > 169.00	2.999	3.017	-0.018	1.000	370834		4.15(1.90-5.69)		9081	
D 21 13C8 FOSA										
506.00 > 78.00	3.353	3.354	-0.001	1.276	5297206	2.71		108	27662	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.353	3.356	-0.003	1.000	1976840	0.9860		98.6	22030	
D 26 M2-8:2FTS										
529.00 > 81.00	3.353	3.368	-0.015	1.276	970973	3.10		129	15583	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.353	3.369	-0.016	1.000	459914	0.9320		97.3	16868	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.368	3.379	-0.011	1.000	1279974	0.9748		97.5	6144	
513.00 > 169.00	3.368	3.379	-0.011	1.000	222906		5.74(2.36-7.09)		2696	
D 23 13C2 PFDA										
515.00 > 470.00	3.368	3.379	-0.011	1.282	3396907	3.00		120	37786	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.520	3.535	-0.015	1.339	1653904	3.06		122	20018	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.527	3.538	-0.011	1.002	624876	0.9046		90.5	5569	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.677	3.692	-0.015	1.000	848143	0.9170		95.1	23558	
599.00 > 99.00	3.677	3.692	-0.015	1.000	301829		2.81(1.39-4.16)		7583	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.685	3.704	-0.019	1.402	1549244	2.87		115	6998	
D 30 13C2 PFUnA										
565.00 > 520.00	3.694	3.709	-0.015	1.406	2408168	2.79		112	28150	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.694	3.710	-0.016	1.002	584901	0.9780		97.8	10030	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.694	3.711	-0.017	1.000	811175	0.9280		92.8	5068	
563.00 > 169.00	3.694	3.711	-0.017	1.000	176465		4.60(0.00-0.00)		12362	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.851	3.850	0.001	1.465	1197783	2.09		83.5	2998	
35 MeFOSA										
512.00 > 169.00	3.851	3.856	-0.005	1.000	464341	0.9668		96.7	2683	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.986	4.008	-0.022	1.000	945288	0.99		99.3	3573	
613.00 > 169.00	3.986	4.008	-0.022	1.000	237703		3.98(2.13-6.40)		11332	
D 36 13C2 PFDoA										
615.00 > 570.00	3.986	4.008	-0.022	1.517	2443998	2.65		106	32825	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.041	4.039	0.002	1.538	1034261	1.95		77.9	2129	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.049	4.047	0.002	1.002	429296	1.00		100	1994	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.258	4.275	-0.017	1.000	1103042	1.02		102	5779	
663.00 > 169.00	4.258	4.275	-0.017	1.000	326575		3.38(1.25-3.76)		12478	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.491	4.519	-0.028	1.000	305206	0.9369		93.7	10739	
713.00 > 219.00	4.491	4.519	-0.028	1.000	211123		1.45(0.71-2.13)		7413	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.491	4.519	-0.028	1.709	3258975	3.26		130	22967	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.907	4.935	-0.028	1.000	1794180	1.04		104	1222	
813.00 > 169.00	4.907	4.935	-0.028	1.000	322636		5.56(2.86-8.58)		5289	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.907	4.935	-0.028	1.867	4780594	2.61		104	15227	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.263	5.299	-0.036	1.000	2090951	0.9694		96.9	569	
913.00 > 169.00	5.263	5.299	-0.036	1.000	261059		8.01(0.00-0.00)		1669	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 20-Dec-2017 11:43:58 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_005.d

Injection Date: 15-Dec-2017 20:49:40 Instrument ID: A8_N

Lims ID: 320-34256-A-1-B MS

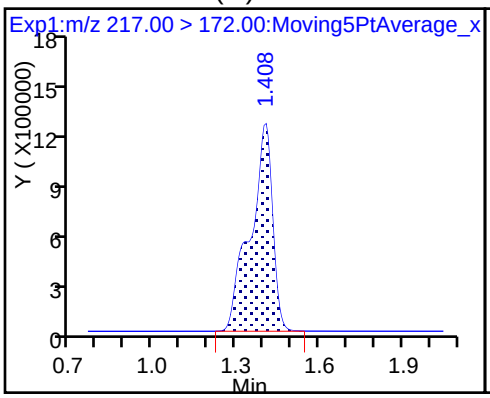
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Operator ID: SACINSTLCMS01 ALS Bottle#: 4 Worklist Smp#: 5

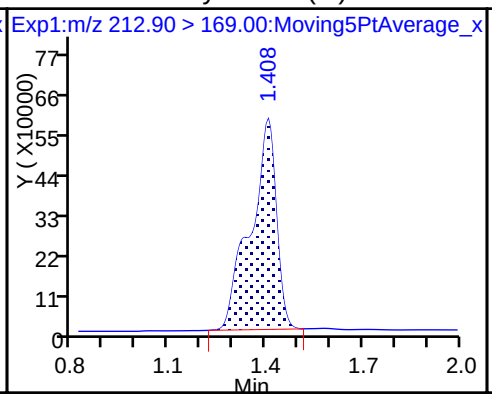
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

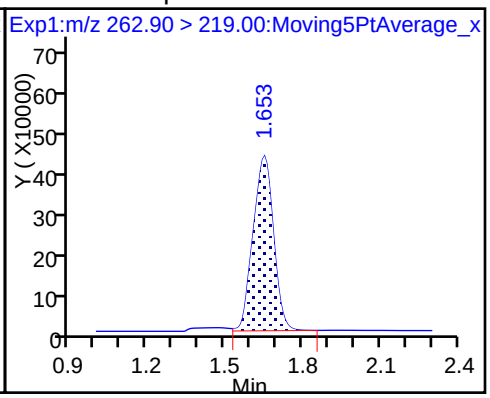
D 1 13C4 PFBA (M)



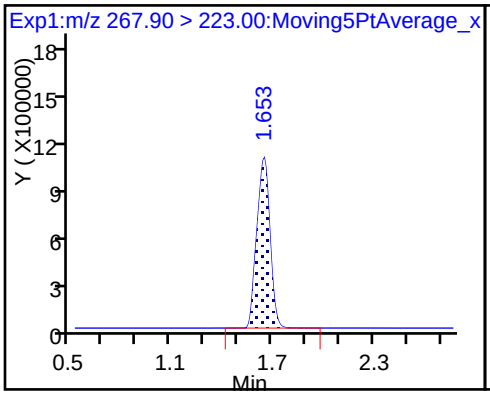
2 Perfluorobutyric acid (M)



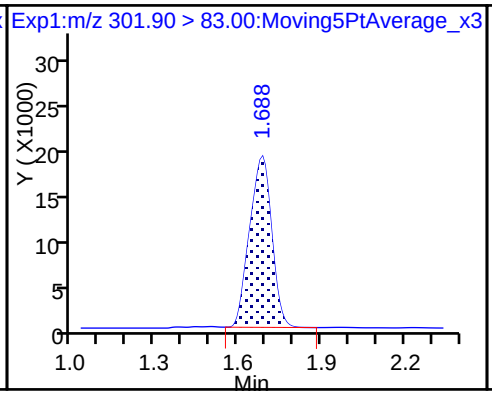
4 Perfluoropentanoic acid



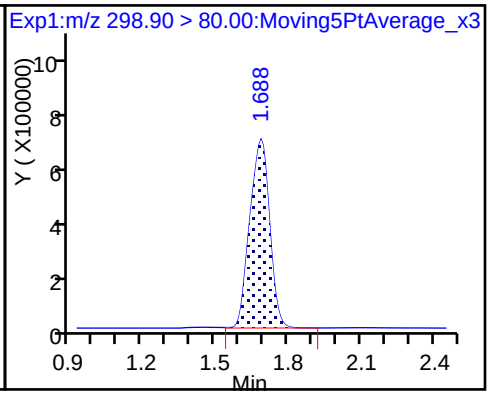
D 3 13C5-PFPeA



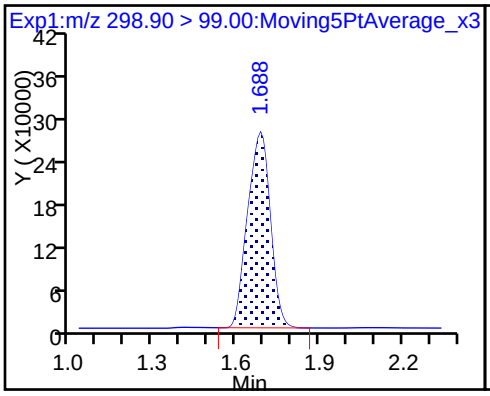
D 47 13C3-PFBS



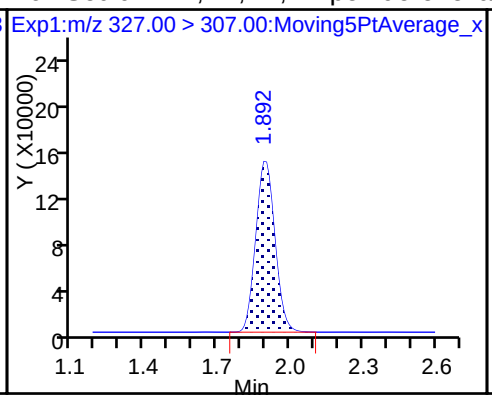
5 Perfluorobutanesulfonic acid



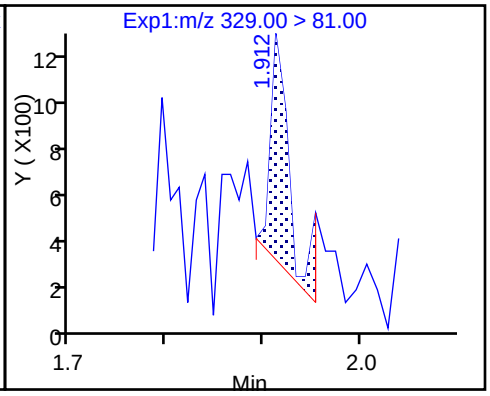
5 Perfluorobutanesulfonic acid



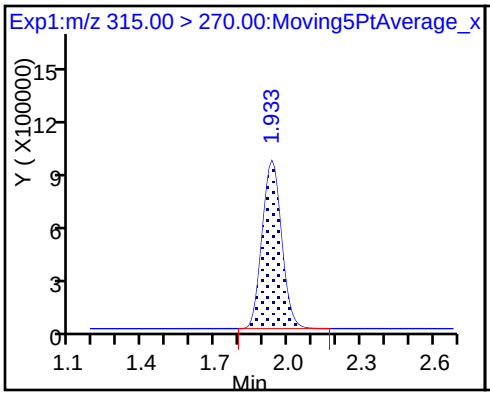
61 Sodium 1H,1H,2H,2H-perfluorohexane



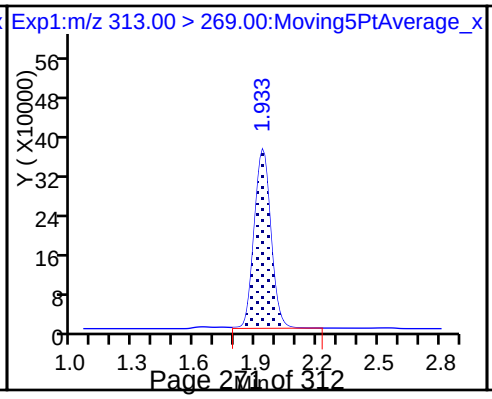
D 60 M2-4:2FTS



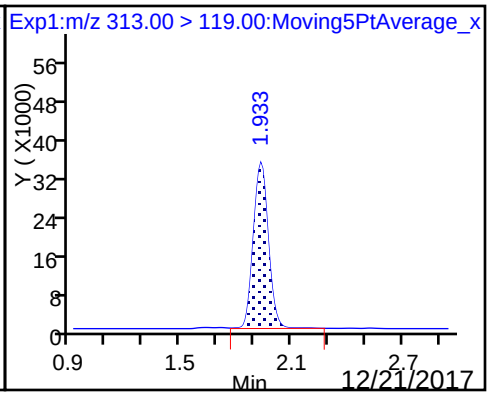
D 7 13C2 PFHxA



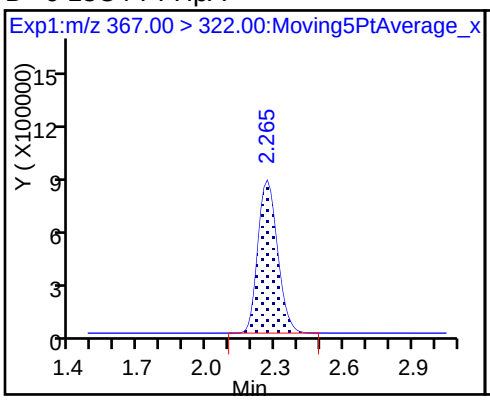
6 Perfluorohexanoic acid



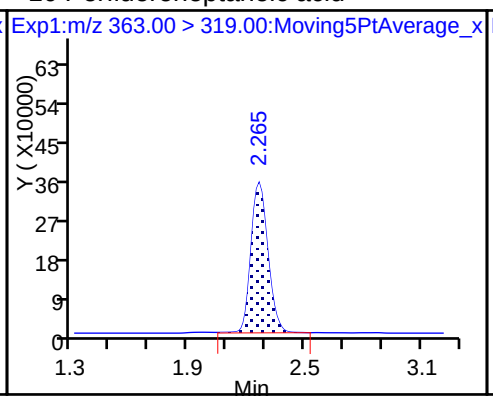
6 Perfluorohexanoic acid



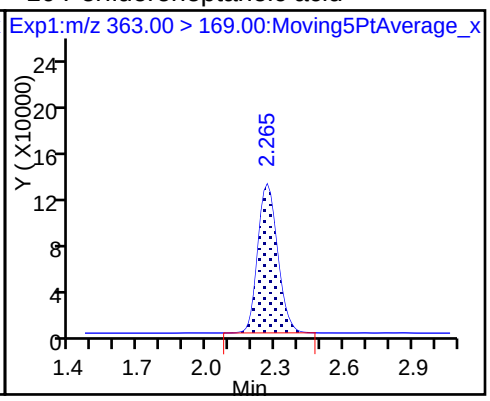
D 9 13C4-PFHpA



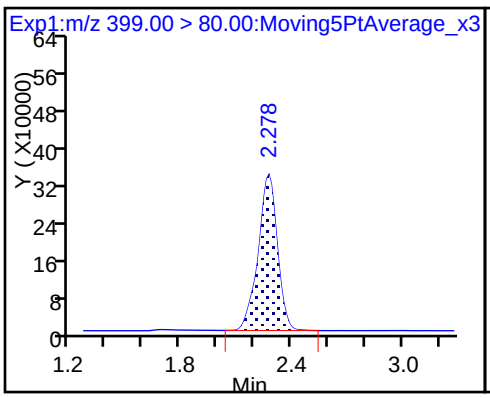
10 Perfluoroheptanoic acid



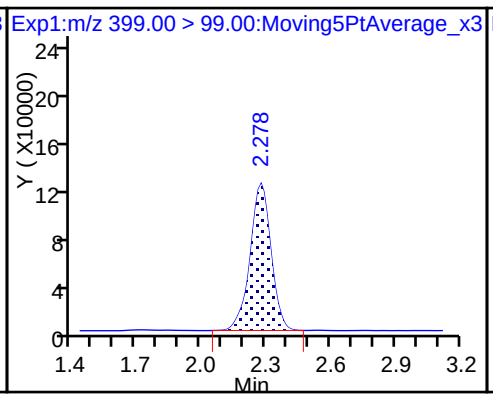
10 Perfluoroheptanoic acid



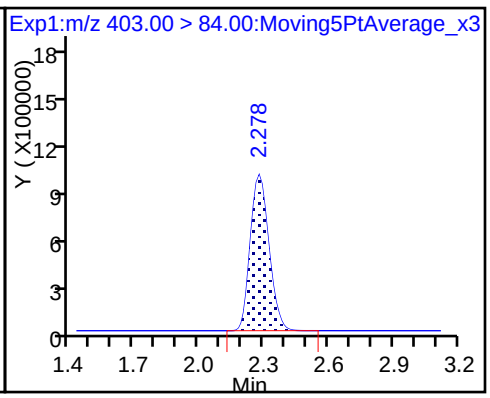
8 Perfluorohexanesulfonic acid



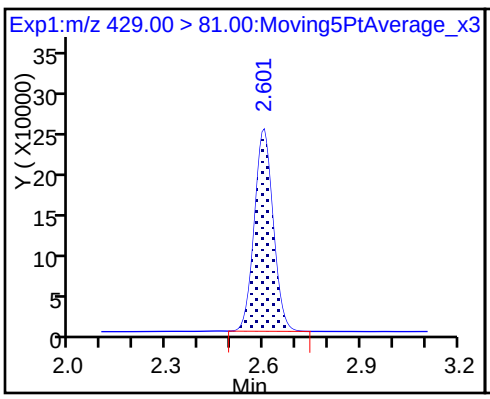
8 Perfluorohexanesulfonic acid



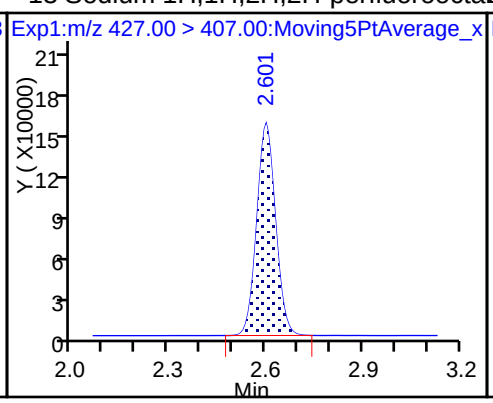
D 11 18O2 PFHxS



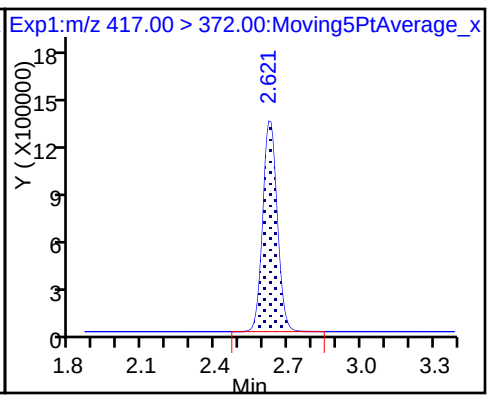
D 12 M2-6:2FTS



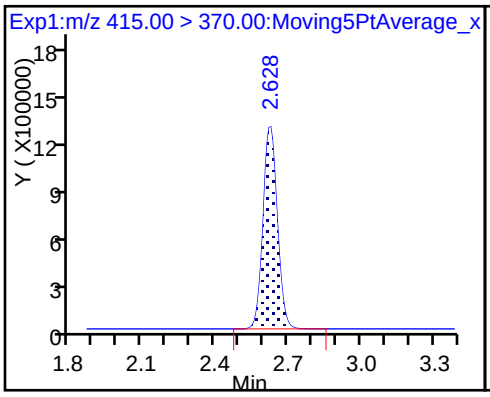
13 Sodium 1H,1H,2H,2H-perfluorooctane



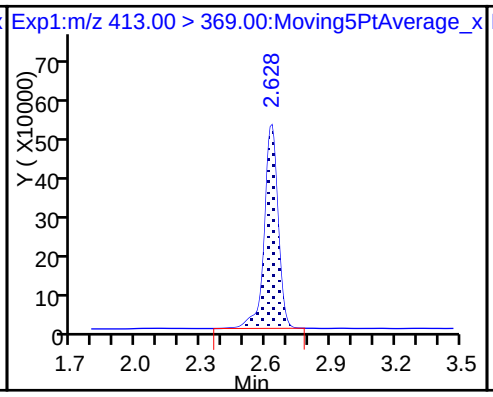
D 14 13C4 PFOA



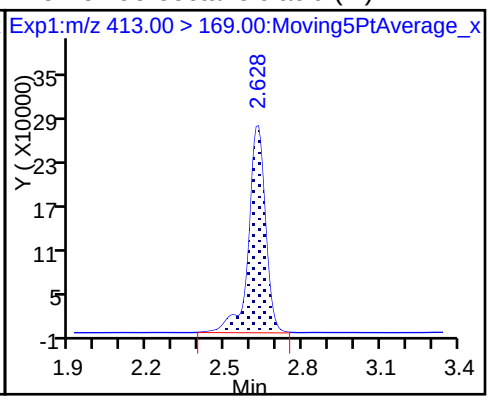
* 62 13C2-PFOA



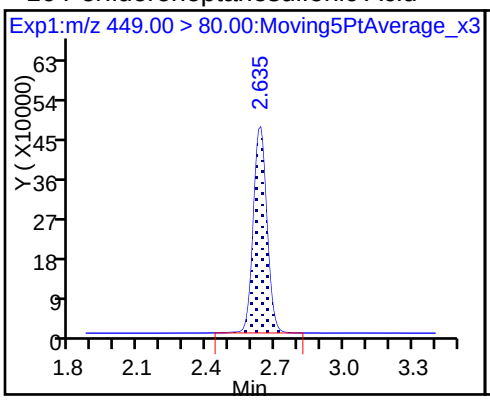
15 Perfluorooctanoic acid



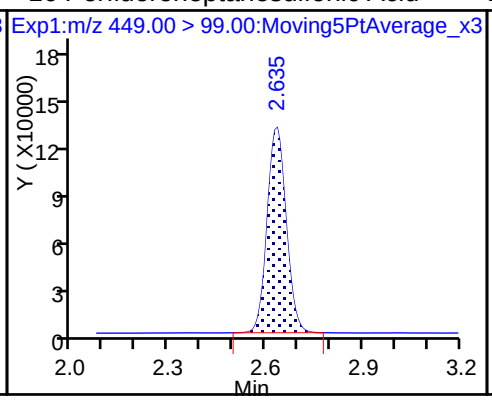
15 Perfluorooctanoic acid (M)



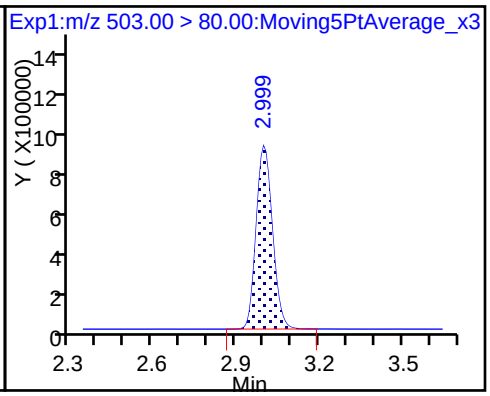
16 Perfluoroheptanesulfonic Acid



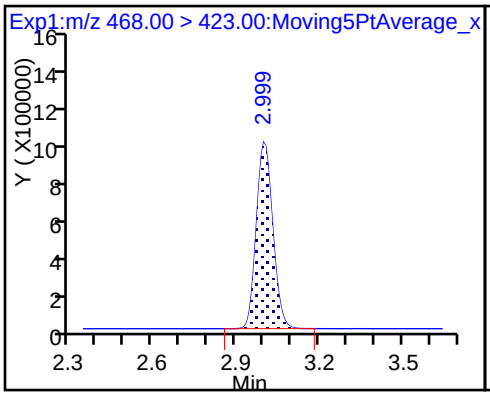
16 Perfluoroheptanesulfonic Acid



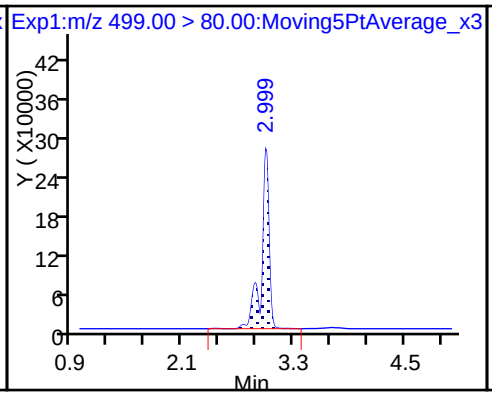
D 18 13C4 PFOS



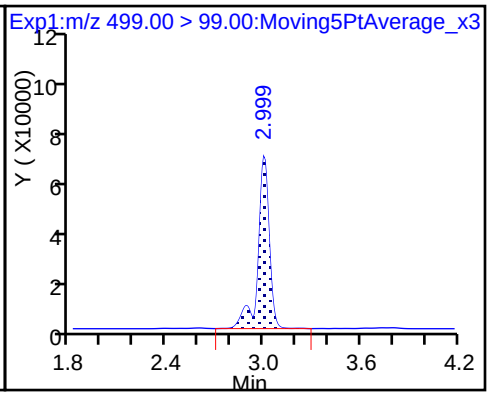
D 19 13C5 PFNA



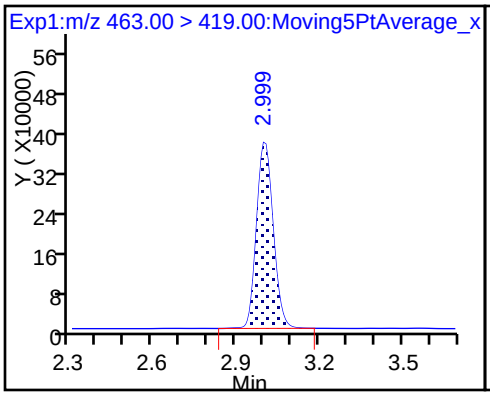
17 Perfluorooctane sulfonic acid



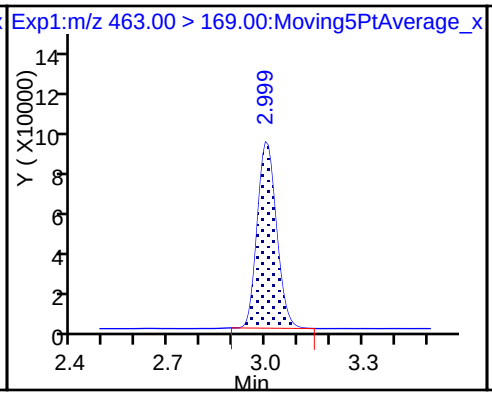
17 Perfluorooctane sulfonic acid



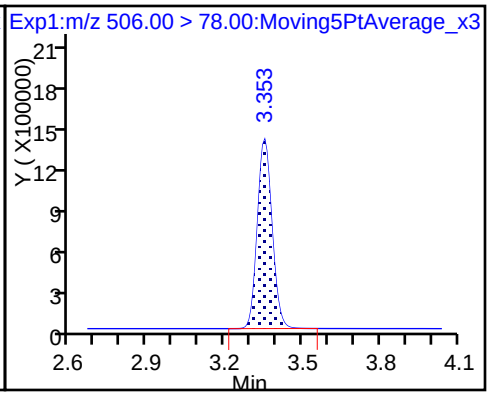
20 Perfluorononanoic acid



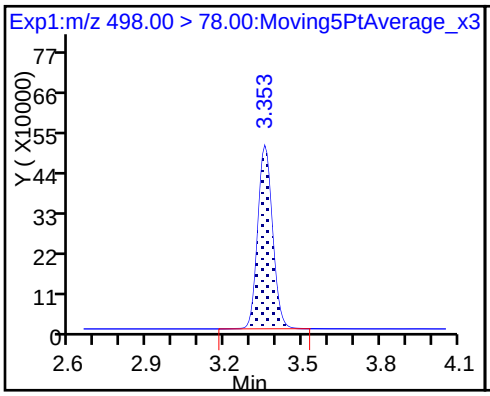
20 Perfluorononanoic acid



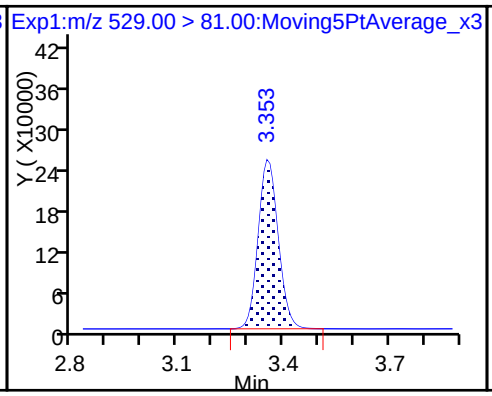
D 21 13C8 FOSA



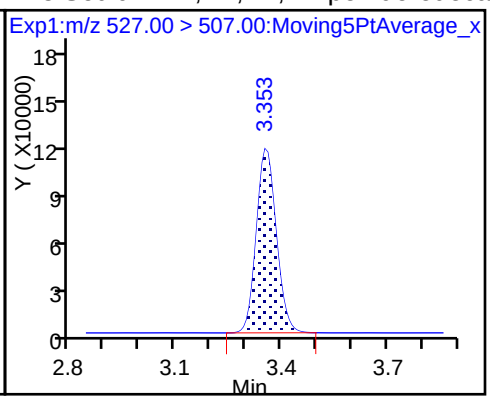
22 Perfluorooctane Sulfonamide



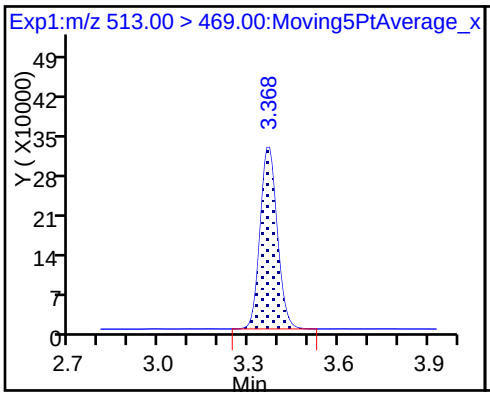
D 26 M2-8:2FTS



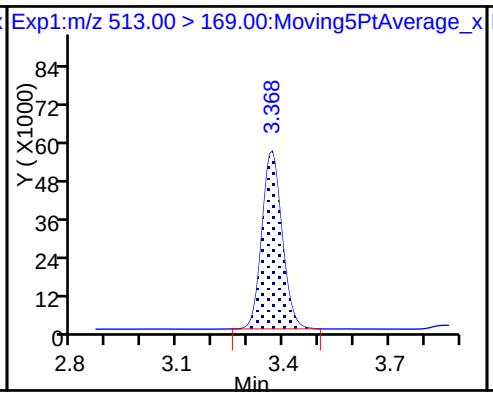
25 Sodium 1H,1H,2H,2H-perfluorodecane



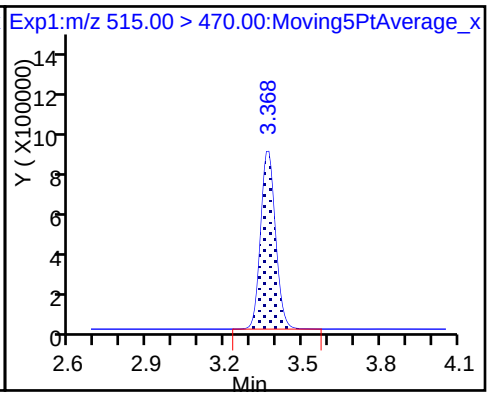
24 Perfluorodecanoic acid



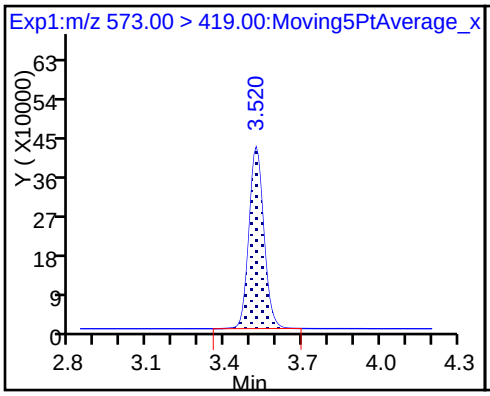
24 Perfluorodecanoic acid



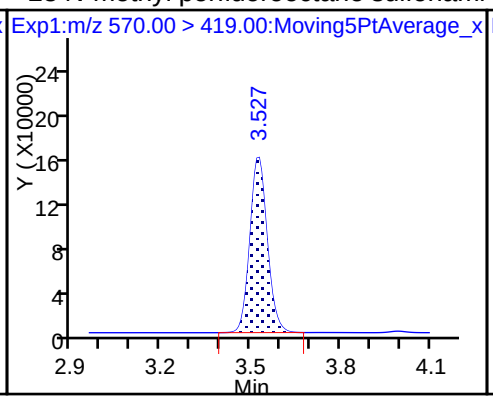
D 23 13C2 PFDA



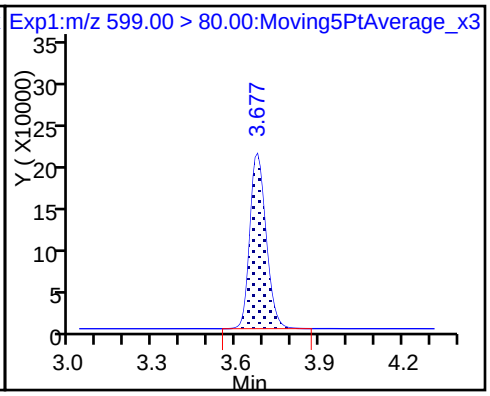
D 27 d3-NMeFOSAA



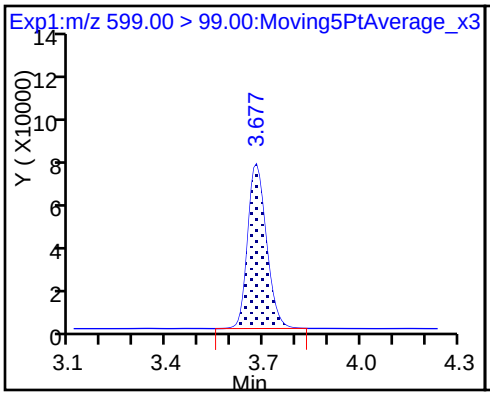
28 N-methyl perfluorooctane sulfonami



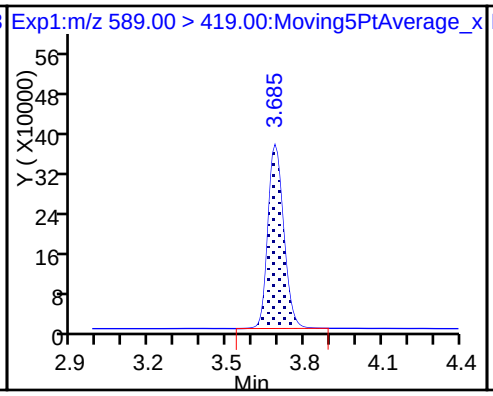
29 Perfluorodecane Sulfonic acid



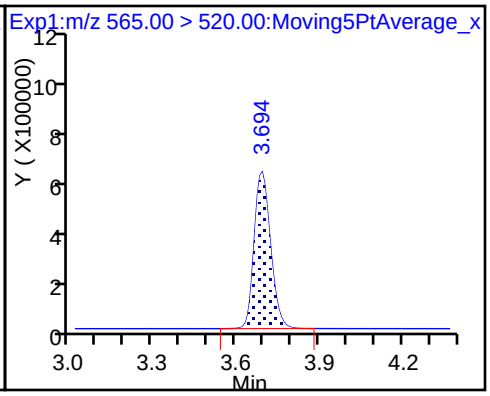
29 Perfluorodecane Sulfonic acid



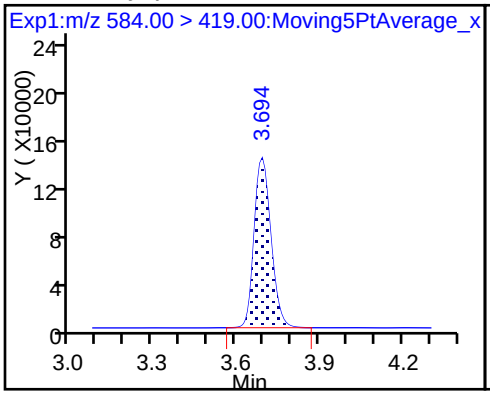
D 32 d5-NEtFOSAA



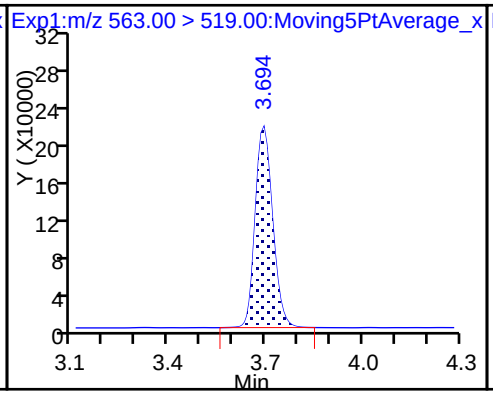
D 30 13C2 PFUnA



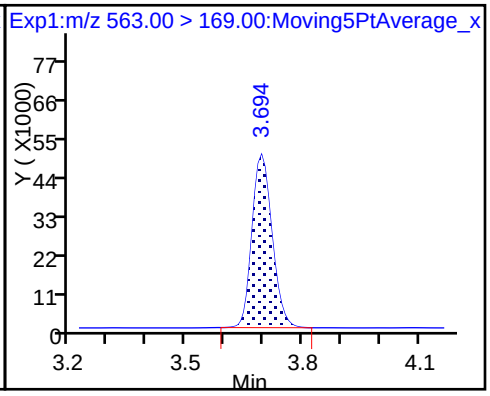
33 N-ethyl perfluorooctane sulfonamid



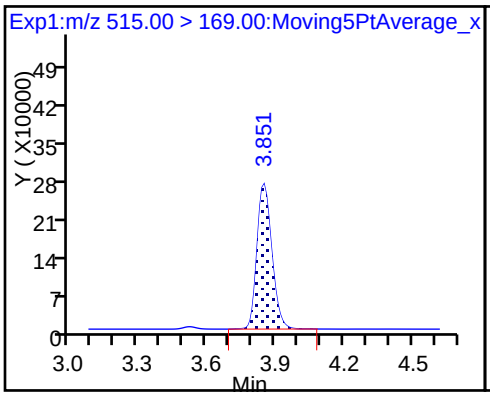
31 Perfluoroundecanoic acid



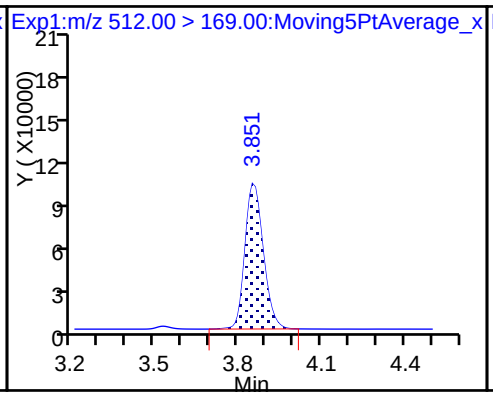
31 Perfluoroundecanoic acid



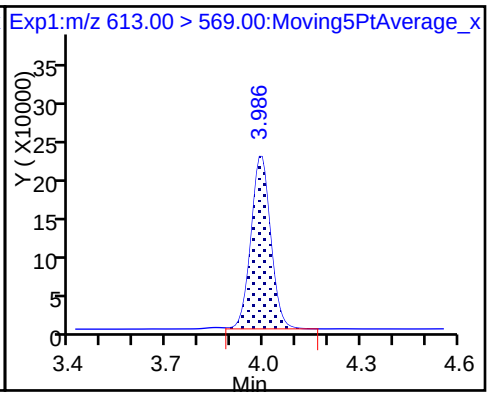
D 34 d-N-MeFOSA-M



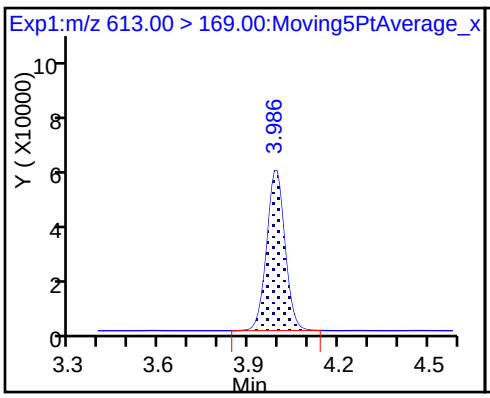
35 MeFOSA



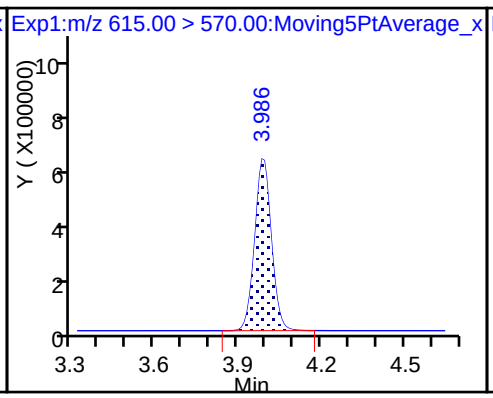
37 Perfluorododecanoic acid



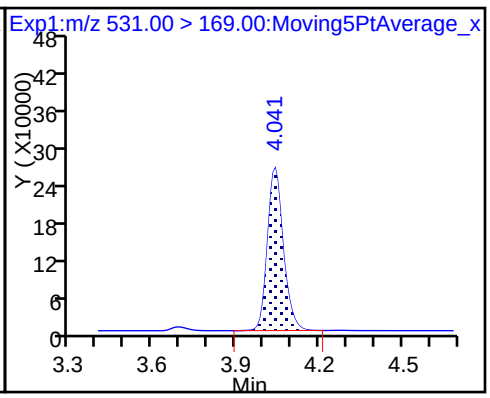
37 Perfluorododecanoic acid



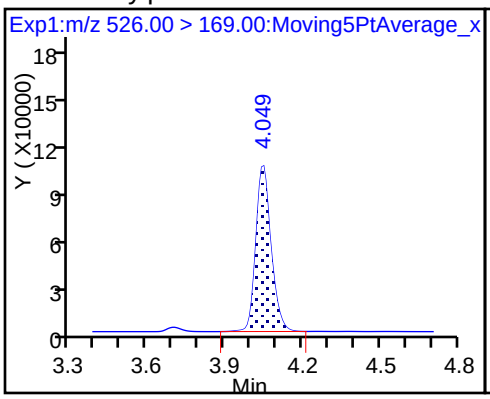
D 36 13C2 PFDoA



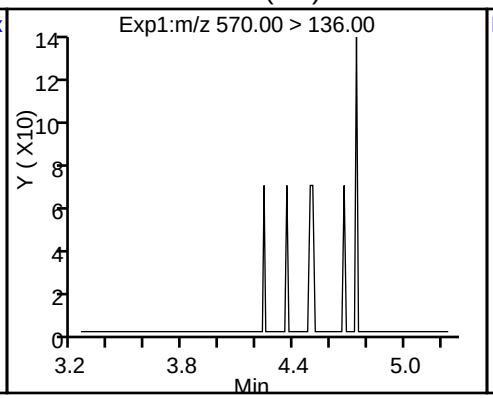
D 38 d-N-EtFOSA-M



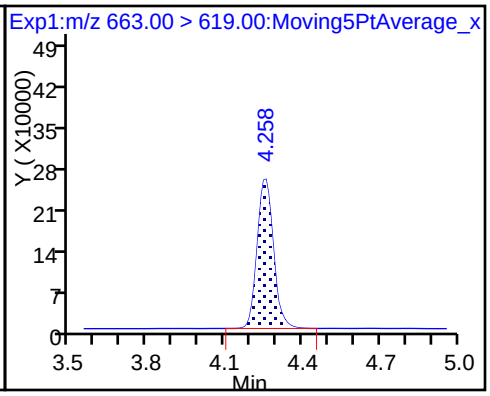
39 N-ethylperfluoro-1-octanesulfonami



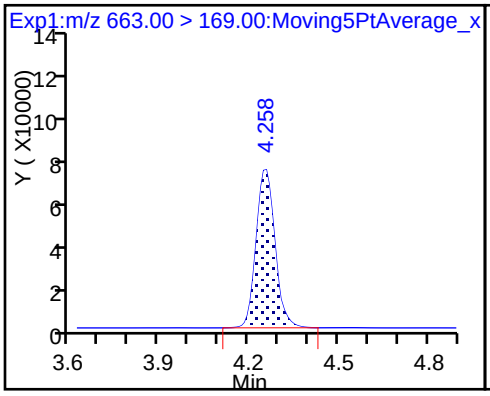
D 40 d-N-EtFOSE-M (ND)



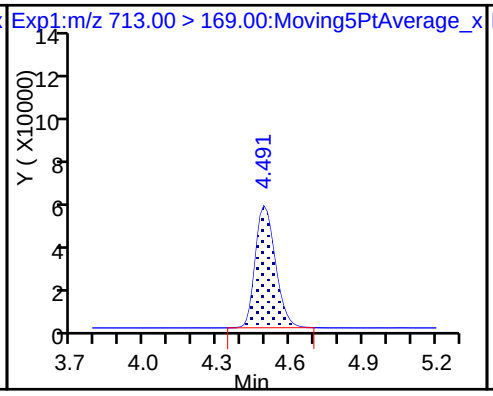
41 Perfluorotridecanoic acid



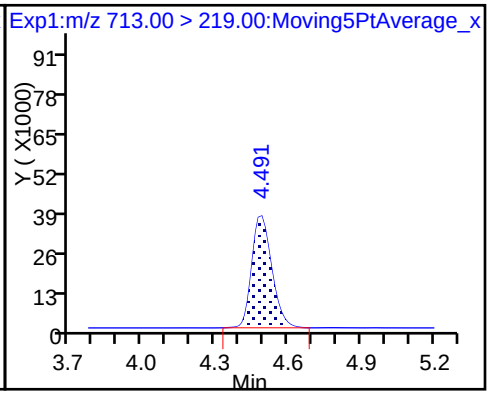
41 Perfluorotridecanoic acid



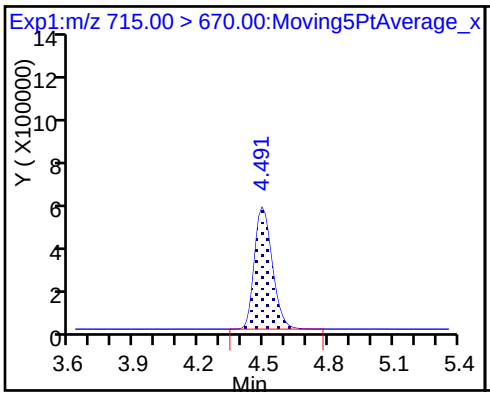
42 Perfluorotetradecanoic acid



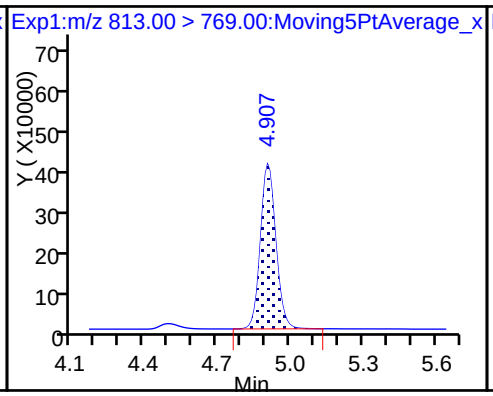
42 Perfluorotetradecanoic acid



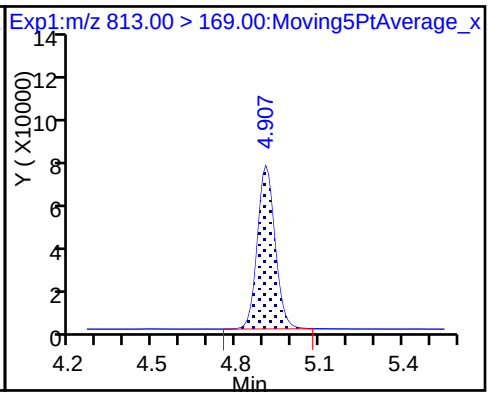
D 43 13C2-PFTeDA



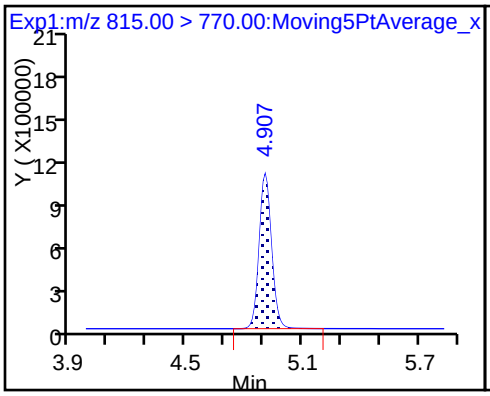
45 Perfluorohexadecanoic acid



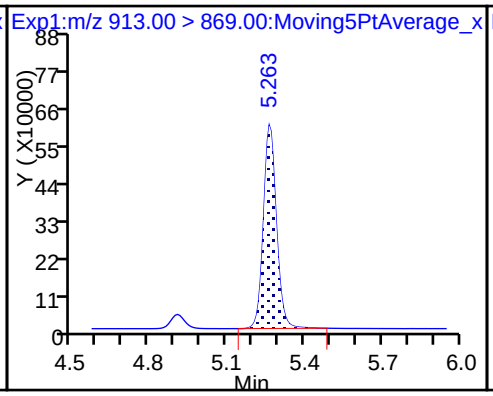
45 Perfluorohexadecanoic acid



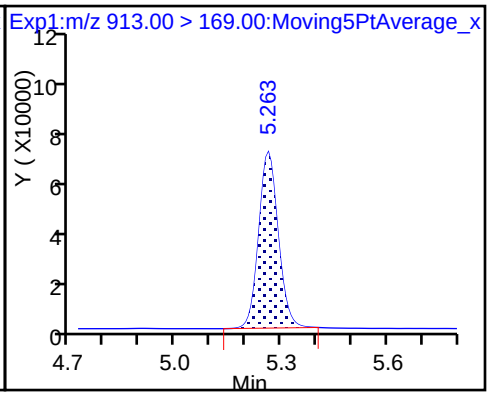
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

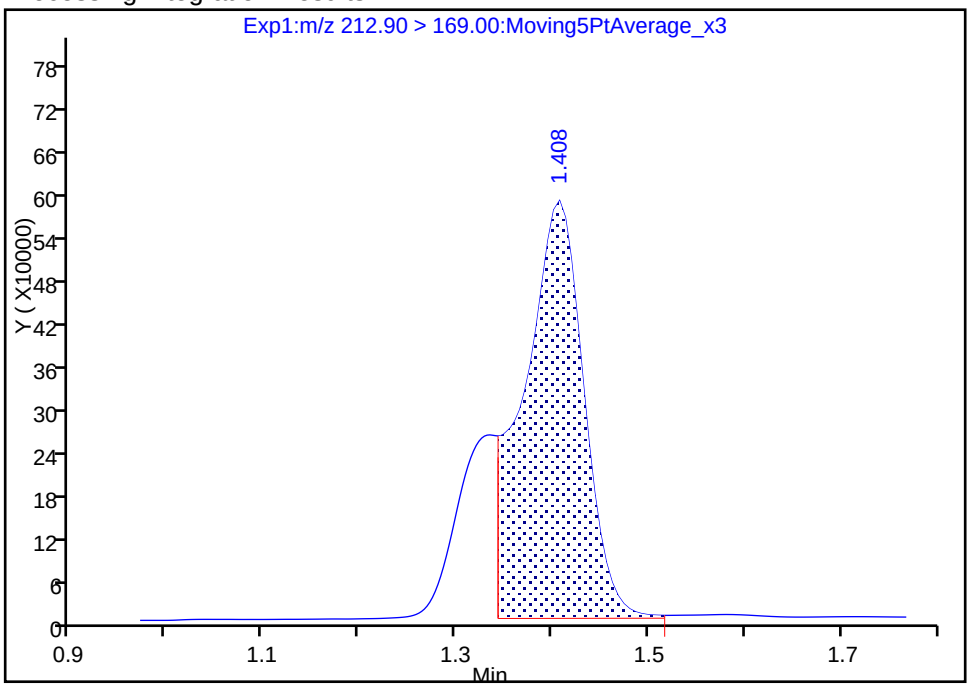
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_005.d				
Injection Date:	15-Dec-2017 20:49:40	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-B MS				
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

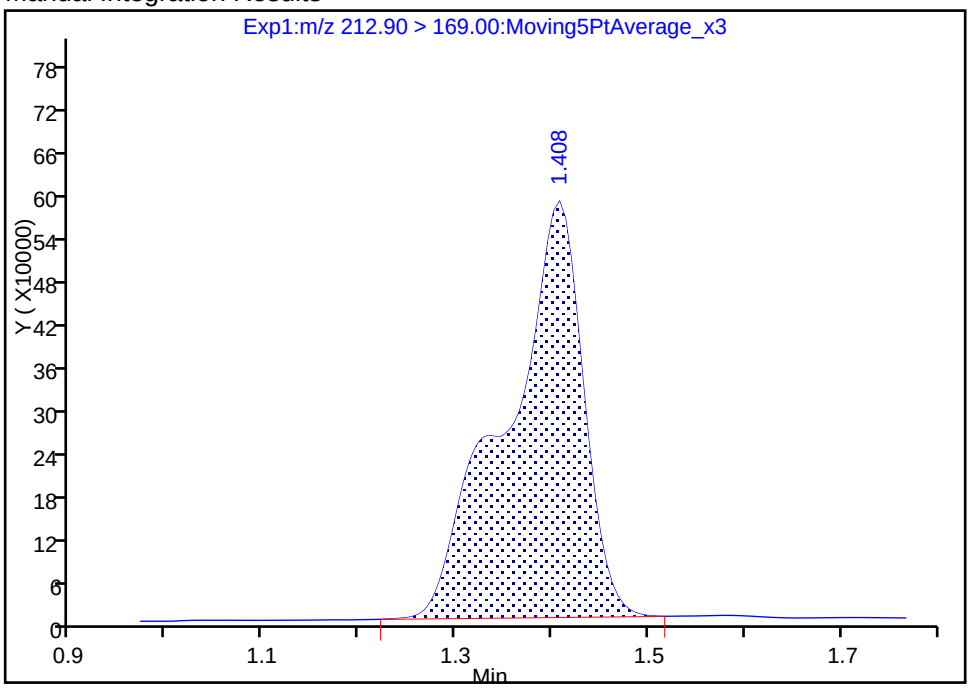
Processing Integration Results

RT: 1.41
Area: 2524395
Amount: 1.019721
Amount Units: ng/ml



Manual Integration Results

RT: 1.41
Area: 3228327
Amount: 1.304072
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:43:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

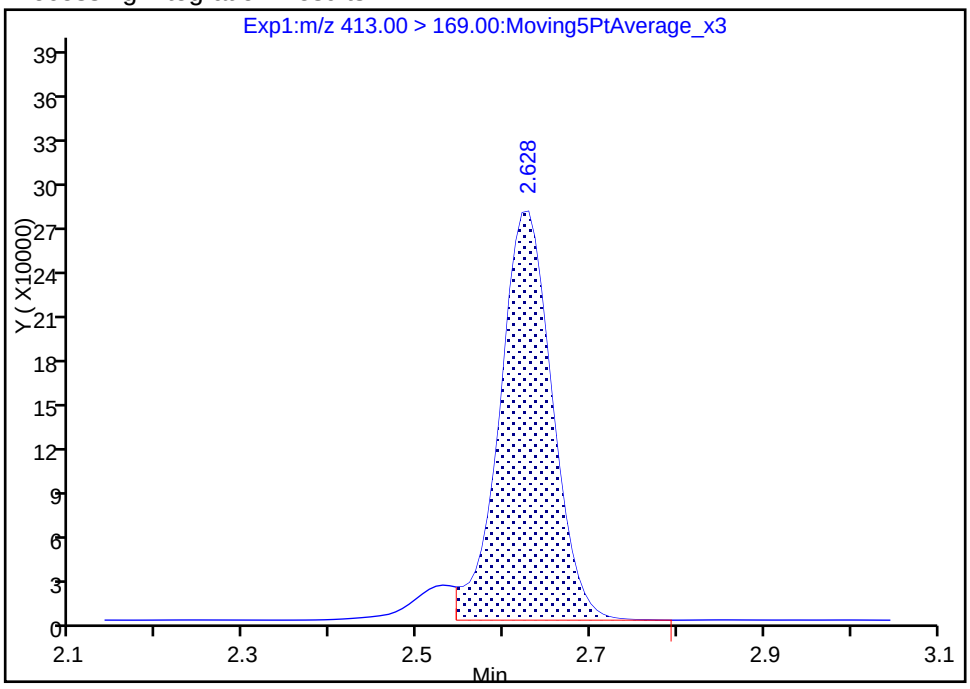
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Injection Date:	15-Dec-2017 20:49:40	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-B MS				
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

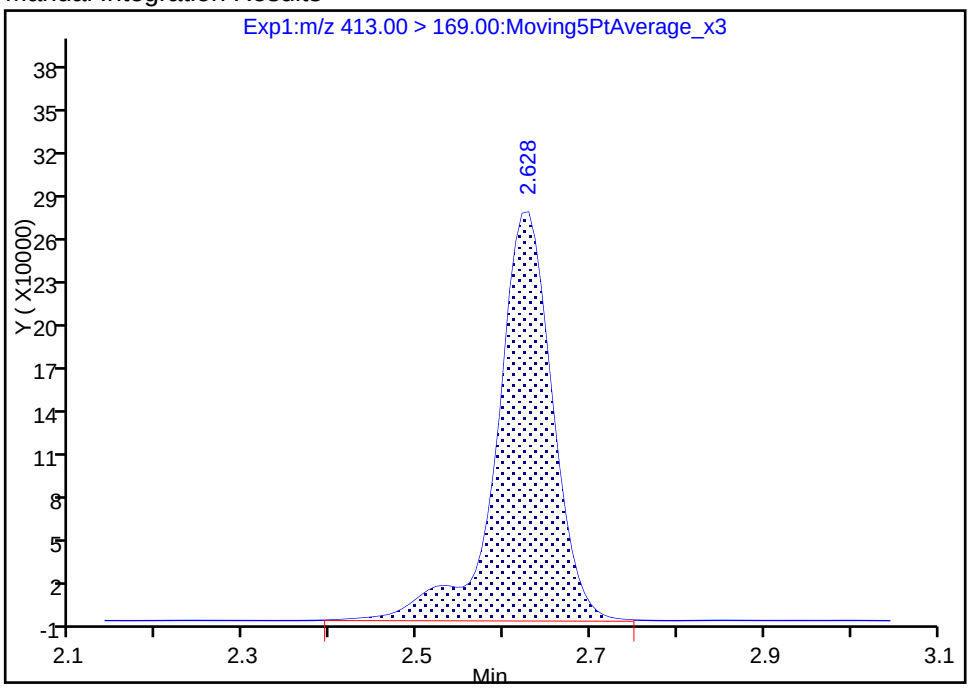
Processing Integration Results

RT: 2.63
Area: 1164224
Amount: 0.982135
Amount Units: ng/ml



Manual Integration Results

RT: 2.63
Area: 1250177
Amount: 0.982135
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:43:44

Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento

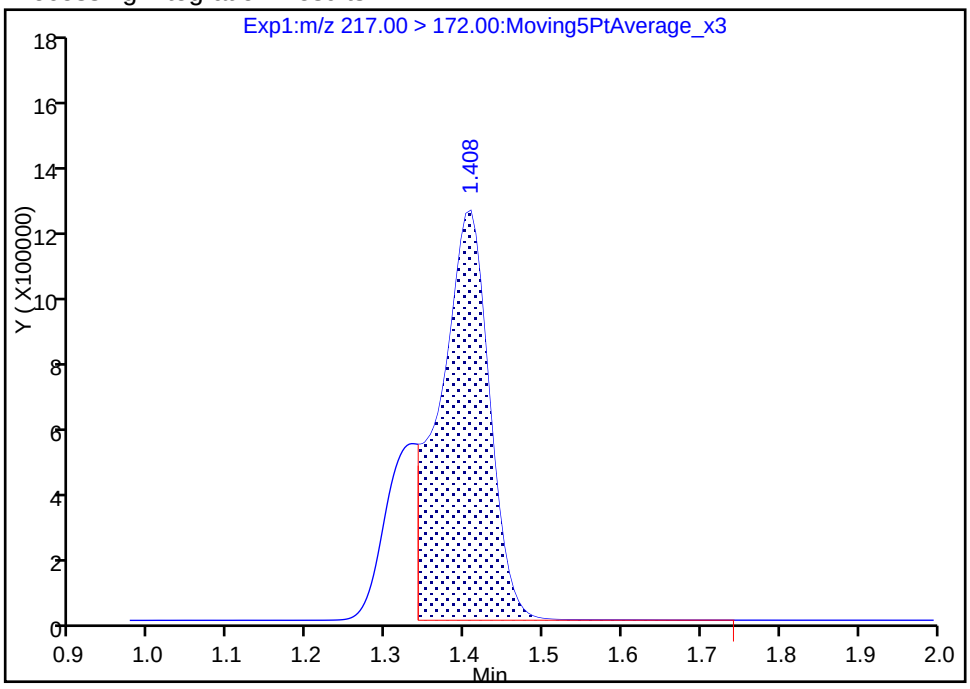
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_005.d
Injection Date: 15-Dec-2017 20:49:40 Instrument ID: A8_N
Lims ID: 320-34256-A-1-B MS
Client ID: NS-LDP-01-GW
Operator ID: SACINSTLCMS01 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

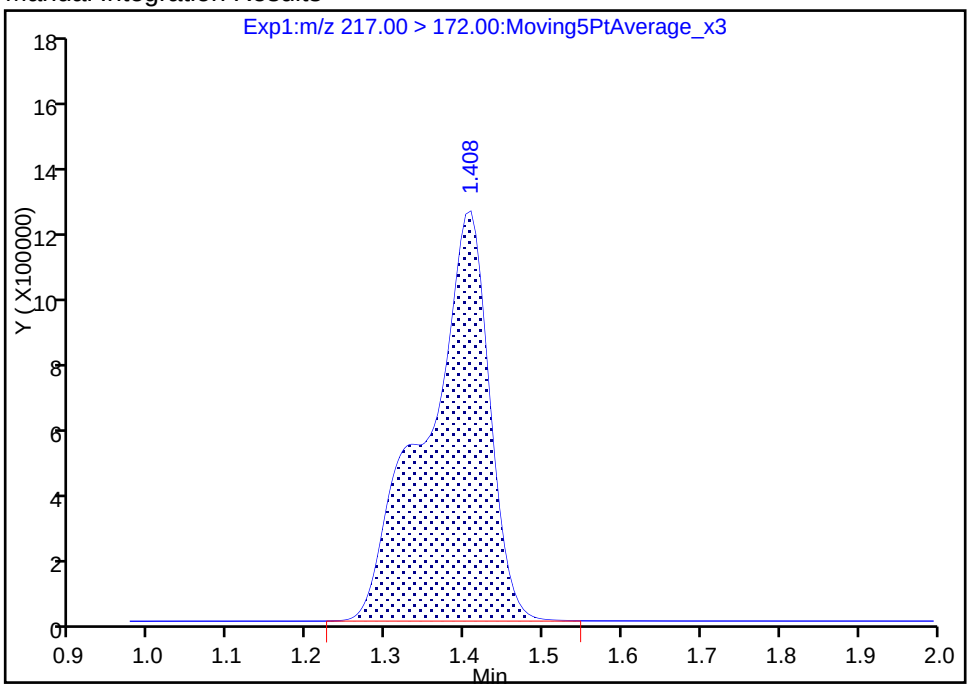
Processing Integration Results

RT: 1.41
Area: 5374195
Amount: 1.783496
Amount Units: ng/ml



Manual Integration Results

RT: 1.41
Area: 6863687
Amount: 2.277803
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:43:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-LDP-01-GW MSD | Lab Sample ID: 320-34256-1 MSD

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_006.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 09:15

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 253.8(mL) | Date Analyzed: 12/15/2017 20:57

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	52.8		2.0	0.34
2706-90-3	Perfluoropentanoic acid (PFPeA)	40.0		2.0	0.48
307-24-4	Perfluorohexanoic acid (PFHxA)	39.4		2.0	0.57
375-85-9	Perfluoroheptanoic acid (PFHpA)	40.6		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	38.9		2.0	0.84
375-95-1	Perfluorononanoic acid (PFNA)	38.0		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	39.6		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	38.8		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	39.8		2.0	0.54
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	43.2		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	36.1		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	48.5		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	36.8		2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	35.1		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36.5		2.0	0.53
335-77-3	Perfluorodecanesulfonic acid (PFDS)	38.6		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	39.5		2.0	0.34

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-34256-1

SDG No.:

Client Sample ID: NS-LDP-01-GW MSD | Lab Sample ID: 320-34256-1 MSD

Matrix: Water | Lab File ID: 2017.12.15LLBLLA_006.d

Analysis Method: 537 (modified) | Date Collected: 12/12/2017 09:15

Extraction Method: 3535 | Date Extracted: 12/15/2017 08:43

Sample wt/vol: 253.8(mL) | Date Analyzed: 12/15/2017 20:57

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 200243 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	88		25-150
STL01893	13C5 PFPeA	119		25-150
STL00993	13C2 PFHxA	111		25-150
STL01892	13C4-PFHpA	113		25-150
STL00990	13C4 PFOA	105		25-150
STL00995	13C5 PFNA	112		25-150
STL00996	13C2 PFDA	114		25-150
STL00997	13C2 PFUnA	106		25-150
STL00998	13C2 PFDoA	111		25-150
STL02116	13C2-PFTeDA	140		25-150
STL02337	13C3-PFBS	107		25-150
STL00994	18O2 PFHxS	115		25-150
STL00991	13C4 PFOS	112		25-150
STL01056	13C8 FOSA	106		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_006.d
Lims ID: 320-34256-A-1-C MSD
Client ID: NS-LDP-01-GW
Sample Type: MSD
Inject. Date: 15-Dec-2017 20:57:36 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 320-34256-a-1-c msd
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 20-Dec-2017 11:44:55 Calib Date: 14-Dec-2017 16:55:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20171214-51773.b\2017.12.14ICAL_010.d

Column 1 : Det: EXP1
Process Host: XAWRK050

First Level Reviewer: hannigana Date: 20-Dec-2017 11:44:55

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.407	1.406	0.001	0.535	6498560	2.19		87.8	17344	
2 Perfluorobutyric acid										
212.90 > 169.00	1.407	1.408	-0.001	1.000	3140480	1.34		134	495	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.652	1.656	-0.004	1.000	2350753	1.02		102	939	
D 3 13C5-PFPeA										
267.90 > 223.00	1.652	1.656	-0.004	0.628	5197904	2.98		119	57694	
D 47 13C3-PFBS										
301.90 > 83.00	1.688	1.690	-0.002	0.642	93284	2.49		107	1533	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.688	1.692	-0.004	1.000	3621404	1.23		139	4282	
298.90 > 99.00	1.688	1.692	-0.004	1.000	1483077		2.44(1.25-3.74)		4041	
61 Sodium 1H,1H,2H,2H-perfluorohexane										
327.00 > 307.00	1.902	1.902	0.0	1.000	793460	4.11		440	29874	
D 60 M2-4:2FTS										
329.00 > 81.00	1.883	1.918	-0.035	0.716	3343	0.0170		0.0	69.9	
D 7 13C2 PFHxA										
315.00 > 270.00	1.933	1.938	-0.005	0.735	5077142	2.79		111	43961	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.933	1.939	-0.006	1.000	2004713	1.00		100	1916	
313.00 > 119.00	1.933	1.939	-0.006	1.000	195501		10.25(5.03-15.10)		3205	
D 9 13C4-PFHpA										
367.00 > 322.00	2.264	2.272	-0.008	0.861	4817667	2.82		113	33726	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.264	2.273	-0.009	1.000	2060644	1.03		103	2606	
363.00 > 169.00	2.264	2.273	-0.009	1.000	795359		2.59(1.13-3.40)		6613	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.277	2.285	-0.008	1.000	2534602	0.9338		103	3159	
399.00 > 99.00	2.277	2.285	-0.008	1.000	778175		3.26(1.50-4.49)		2348	
D 11 18O2 PFHxS										
403.00 > 84.00	2.277	2.286	-0.009	0.866	5813172	2.73		115	56765	
D 12 M2-6:2FTS										
429.00 > 81.00	2.608	2.625	-0.017	0.992	980335	1.06		44.4	7911	
13 Sodium 1H,1H,2H,2H-perfluorooctane										
427.00 > 407.00	2.608	2.625	-0.017	1.000	610356	0.9399		99.1	15278	
D 14 13C4 PFOA										
417.00 > 372.00	2.630	2.637	-0.007	1.000	5400353	2.61		105	42094	
* 62 13C2-PFOA										
415.00 > 370.00	2.630	2.638	-0.008		5059948	2.50			48356	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.637	2.640	-0.003	1.003	2264843	0.9862		98.6	2333	
413.00 > 169.00	2.630	2.640	-0.010	1.000	1244186		1.82(0.84-2.52)		6477	M
16 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	2.637	2.644	-0.007	1.000	1979107	0.8919		93.7	24630	
449.00 > 99.00	2.644	2.644	0.0	1.003	519799		3.81(1.94-5.82)		7581	
D 18 13C4 PFOS										
503.00 > 80.00	3.008	3.014	-0.006	1.144	3596231	2.68		112	26839	
D 19 13C5 PFNA										
468.00 > 423.00	3.008	3.015	-0.007	1.144	3844935	2.81		112	40990	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.008	3.015	-0.007	1.000	1482653	0.9271		99.9	2452	
499.00 > 99.00	3.008	3.015	-0.007	1.000	323416		4.58(2.31-6.93)		3042	
20 Perfluorononanoic acid										
463.00 > 419.00	3.008	3.017	-0.009	1.000	1476422	0.9634		96.3	3463	
463.00 > 169.00	3.008	3.017	-0.009	1.000	351118		4.20(1.90-5.69)		7187	
D 21 13C8 FOSA										
506.00 > 78.00	3.362	3.354	0.008	1.278	5085155	2.64		106	33427	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.362	3.356	0.006	1.000	1929608	1.00		100	26138	
D 26 M2-8:2FTS										
529.00 > 81.00	3.362	3.368	-0.006	1.278	941383	3.06		128	11532	
25 Sodium 1H,1H,2H,2H-perfluorodecane										
527.00 > 507.00	3.362	3.369	-0.007	1.000	441902	0.9236		96.4	28349	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.370	3.379	-0.009	1.000	1238192	1.00		100	6095	
513.00 > 169.00	3.370	3.379	-0.009	1.000	230382		5.37(2.36-7.09)		3469	
D 23 13C2 PFDA										
515.00 > 470.00	3.370	3.379	-0.009	1.281	3189507	2.86		114	27133	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.529	3.535	-0.006	1.342	1657711	3.12		125	20975	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.536	3.538	-0.002	1.002	651818	0.9414		94.1	5410	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.692	-0.005	1.000	875180	0.9793		102	11404	
599.00 > 99.00	3.687	3.692	-0.005	1.000	302302		2.90(1.39-4.16)		10634	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.695	3.704	-0.009	1.405	1558873	2.94		118	7905	
D 30 13C2 PFUnA										
565.00 > 520.00	3.695	3.709	-0.014	1.405	2242262	2.65		106	28348	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.704	3.710	-0.006	1.002	576640	0.9582		95.8	12518	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.704	3.711	-0.007	1.002	801360	0.9846		98.5	4453	
563.00 > 169.00	3.704	3.711	-0.007	1.002	165789		4.83(0.00-0.00)		9036	
D 34 d-N-MeFOSA-M										
515.00 > 169.00	3.852	3.850	0.002	1.465	716279	1.27		50.8	1821	
35 MeFOSA										
512.00 > 169.00	3.863	3.856	0.007	1.003	285756	0.99		99.5	1709	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.995	4.008	-0.013	1.000	984779	1.01		101	3656	
613.00 > 169.00	3.995	4.008	-0.013	1.000	248830		3.96(2.13-6.40)		20180	
D 36 13C2 PFDoA										
615.00 > 570.00	3.995	4.008	-0.013	1.519	2503620	2.76		111	38202	
D 38 d-N-EtFOSA-M										
531.00 > 169.00	4.051	4.039	0.012	1.540	486394	0.9323		37.3	1126	
39 N-ethylperfluoro-1-octanesulfonami										
526.00 > 169.00	4.051	4.047	0.004	1.000	208396	1.04		104	1066	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.260	4.275	-0.015	1.000	1212452	1.10		110	5798	
663.00 > 169.00	4.260	4.275	-0.015	1.000	383508		3.16(1.25-3.76)		14618	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.499	4.519	-0.020	1.000	314778	0.9155		91.5	9001	
713.00 > 219.00	4.499	4.519	-0.020	1.000	228136		1.38(0.71-2.13)		7926	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.499	4.519	-0.020	1.711	3439915	3.50		140	31346	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.921	4.935	-0.014	1.000	1757925	1.08		108	1157	
813.00 > 169.00	4.921	4.935	-0.014	1.000	300846		5.84(2.86-8.58)		5356	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.921	4.935	-0.014	1.871	4542549	2.52		101	17431	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.274	5.299	-0.025	1.000	1907473	0.9307		93.1	546	
913.00 > 169.00	5.274	5.299	-0.025	1.000	228797		8.34(0.00-0.00)		1656	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 20-Dec-2017 11:44:56 Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_006.d

Injection Date: 15-Dec-2017 20:57:36 Instrument ID: A8_N

Lims ID: 320-34256-A-1-C MSD

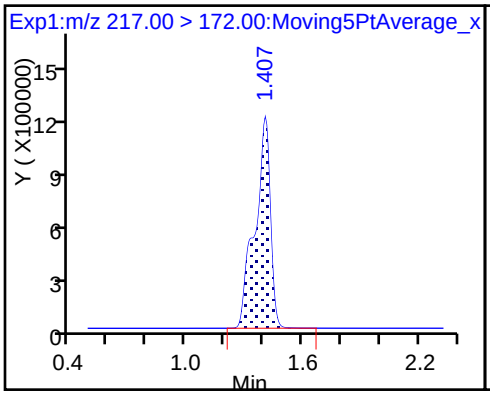
Client ID: NS-LDP-01-GW

Operator ID: SACINSTLCMS01 ALS Bottle#: 5 Worklist Smp#: 6

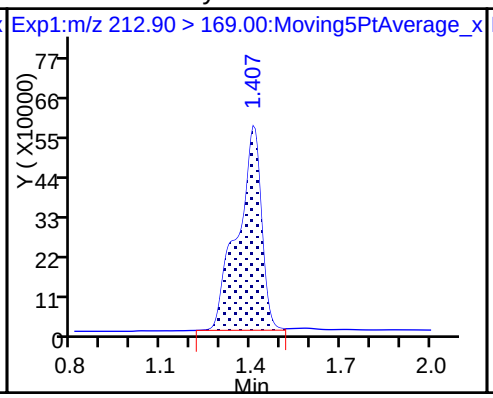
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

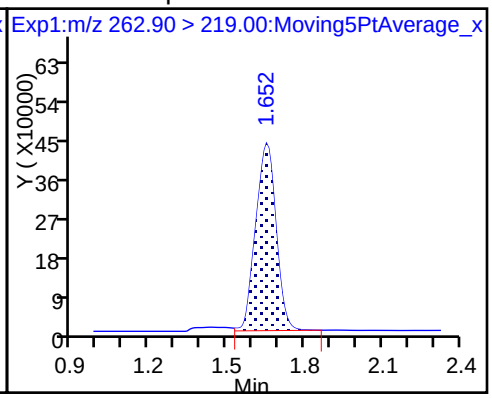
D 1 13C4 PFBA



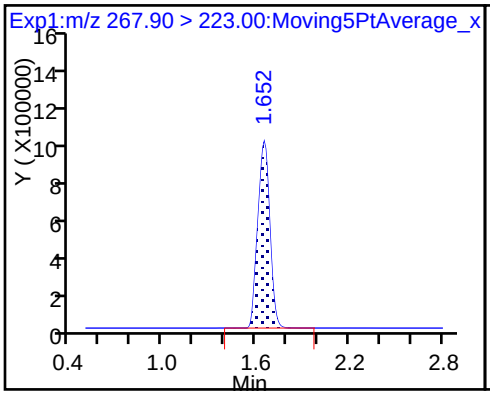
2 Perfluorobutyric acid



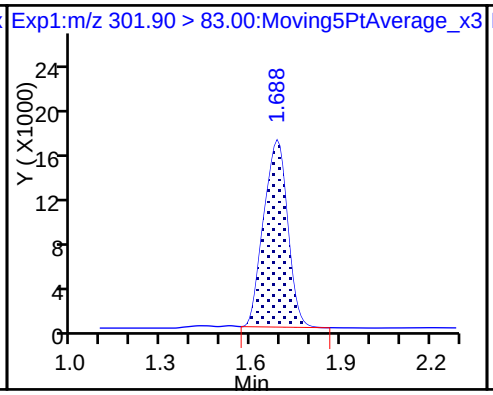
4 Perfluoropentanoic acid



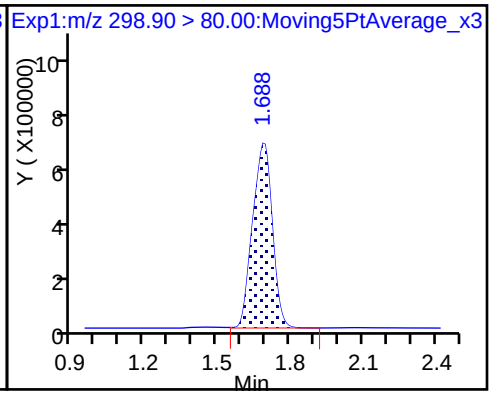
D 3 13C5-PFPeA



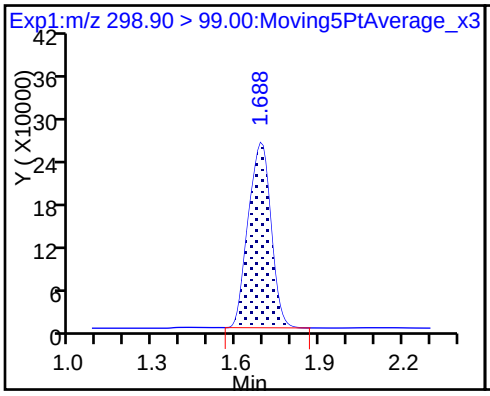
D 47 13C3-PFBS



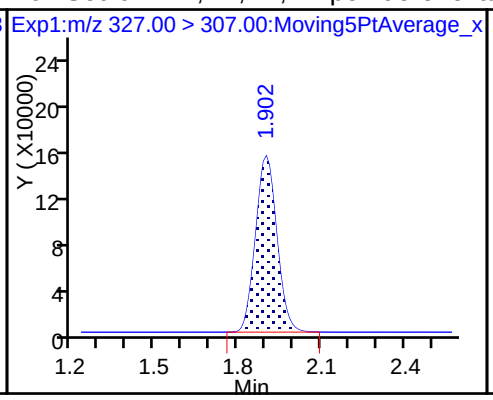
5 Perfluorobutanesulfonic acid



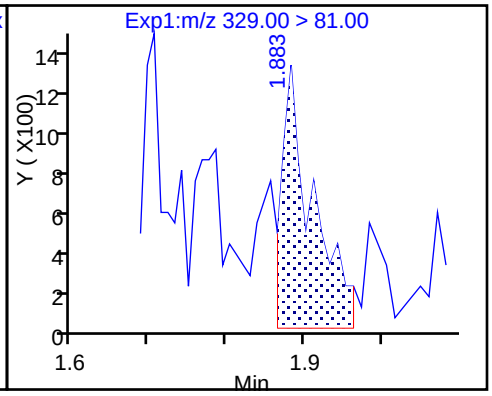
5 Perfluorobutanesulfonic acid



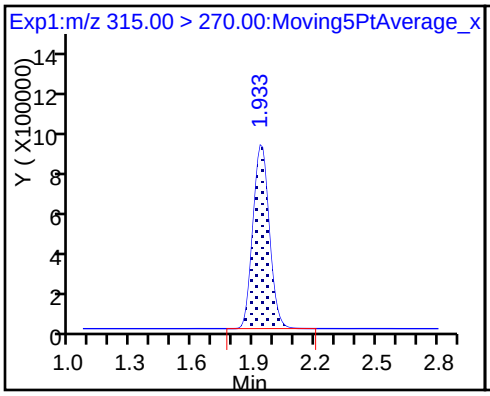
61 Sodium 1H,1H,2H,2H-perfluorohexane



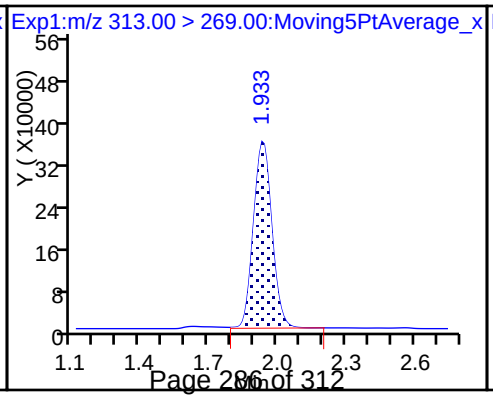
D 60 M2-4:2FTS



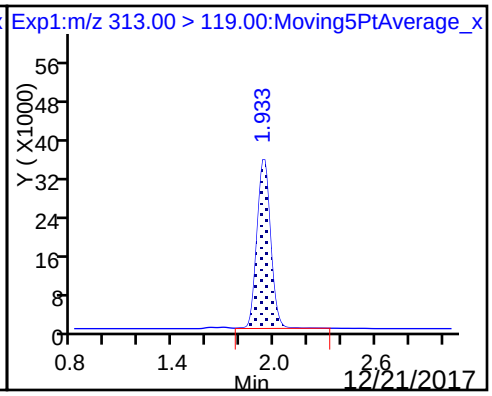
D 7 13C2 PFHxA



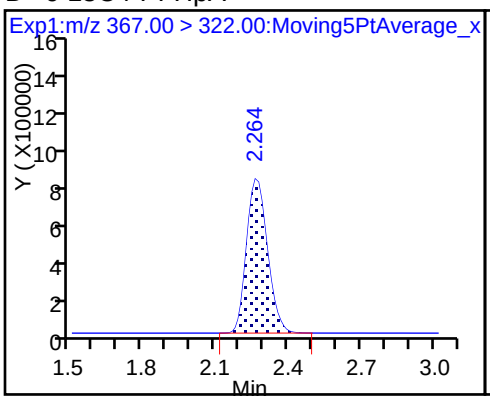
6 Perfluorohexanoic acid



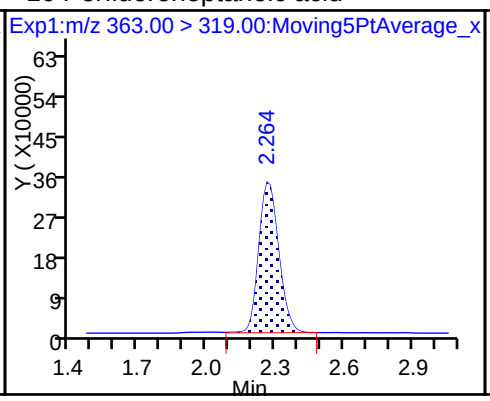
6 Perfluorohexanoic acid



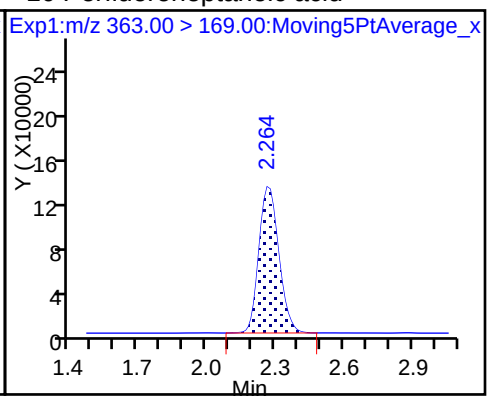
D 9 13C4-PFHpA



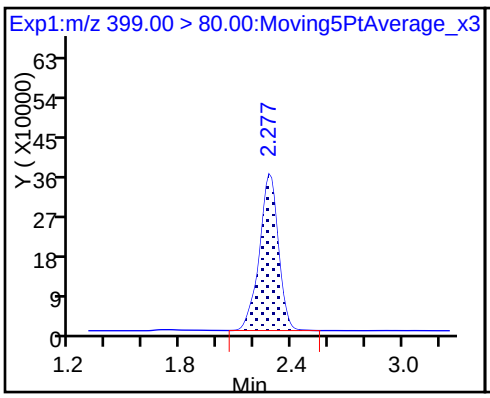
10 Perfluoroheptanoic acid



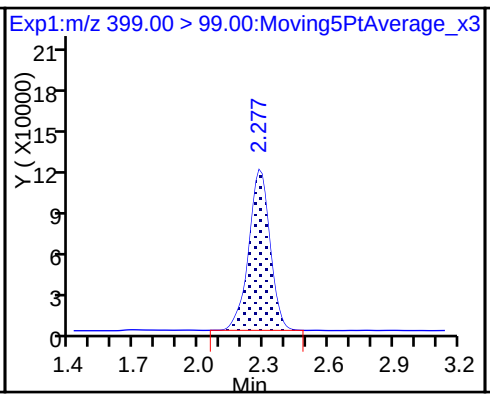
10 Perfluoroheptanoic acid



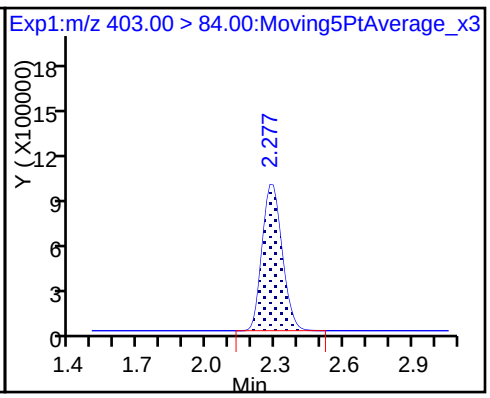
8 Perfluorohexanesulfonic acid



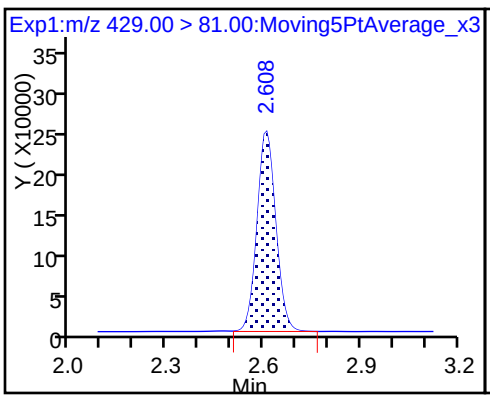
8 Perfluorohexanesulfonic acid



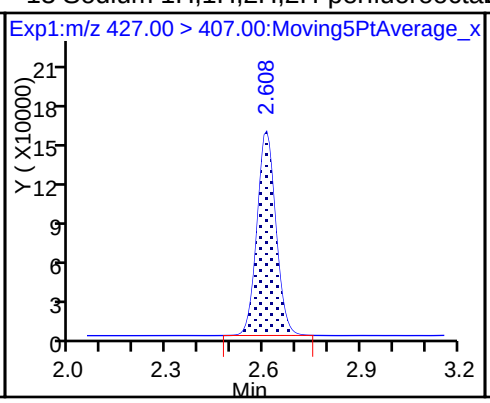
D 11 18O2 PFHxS



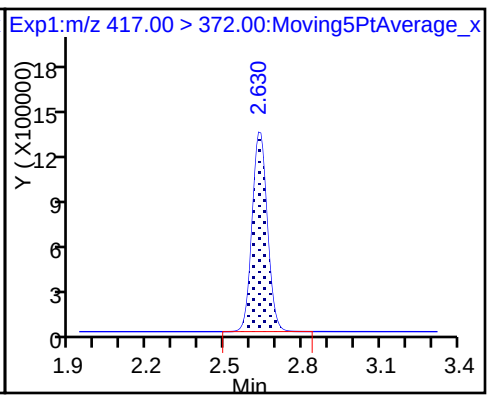
D 12 M2-6:2FTS



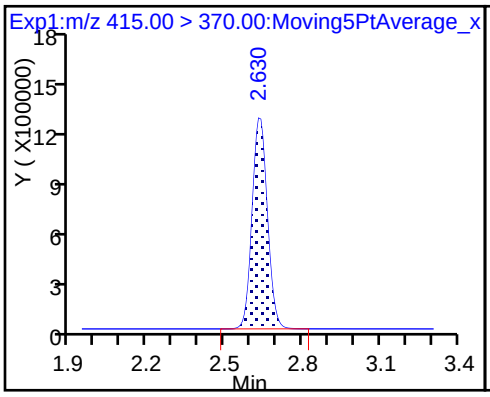
13 Sodium 1H,1H,2H,2H-perfluorooctane



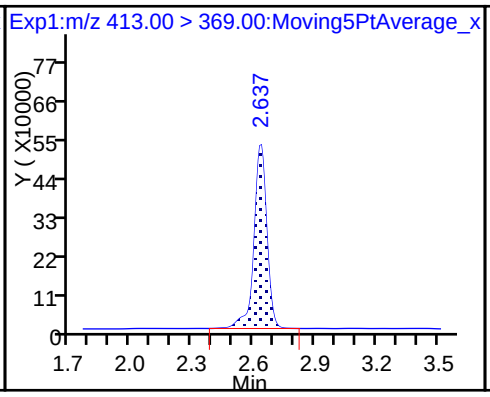
D 14 13C4 PFOA



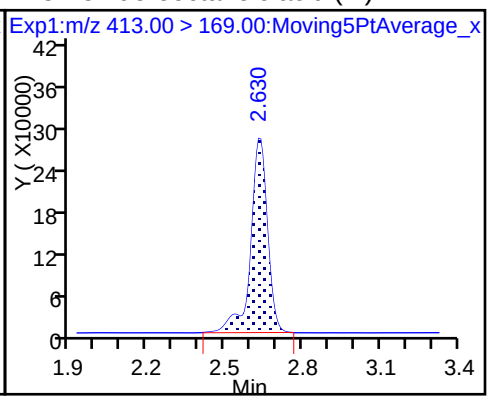
* 62 13C2-PFOA



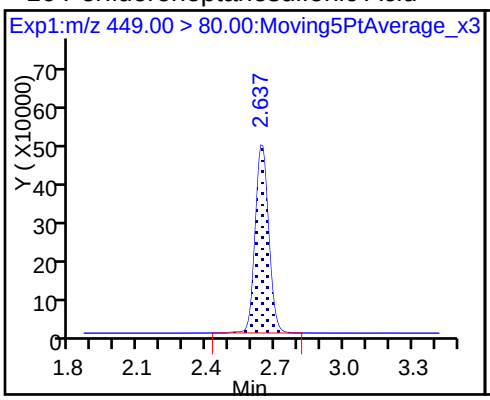
15 Perfluorooctanoic acid



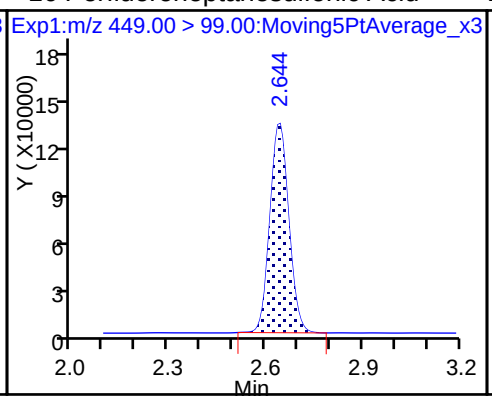
15 Perfluorooctanoic acid (M)



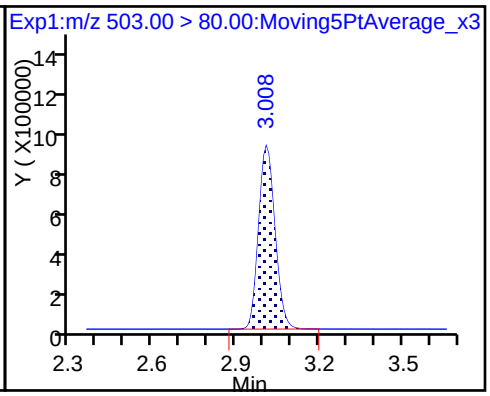
16 Perfluoroheptanesulfonic Acid



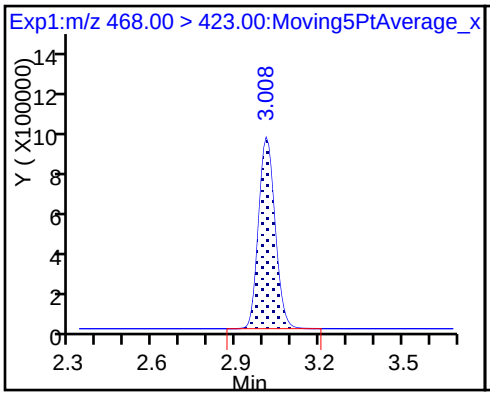
16 Perfluoroheptanesulfonic Acid



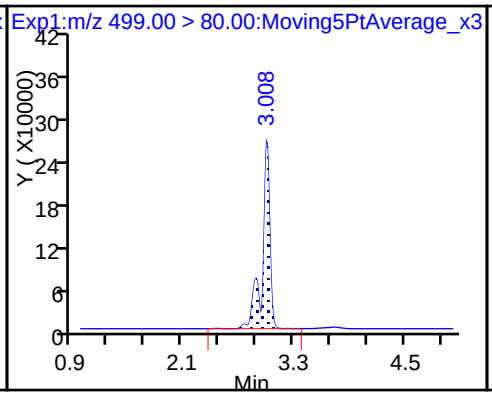
D 18 13C4 PFOS



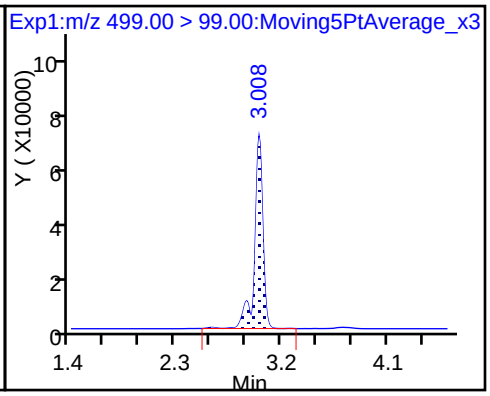
D 19 13C5 PFNA



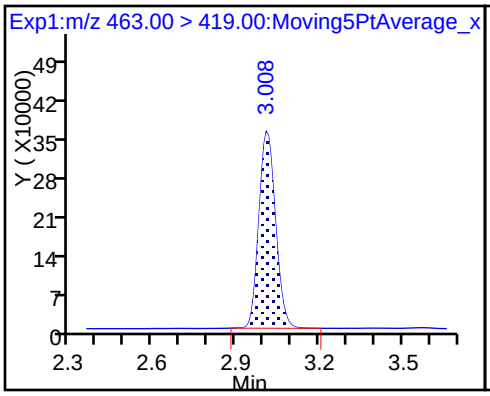
17 Perfluorooctane sulfonic acid



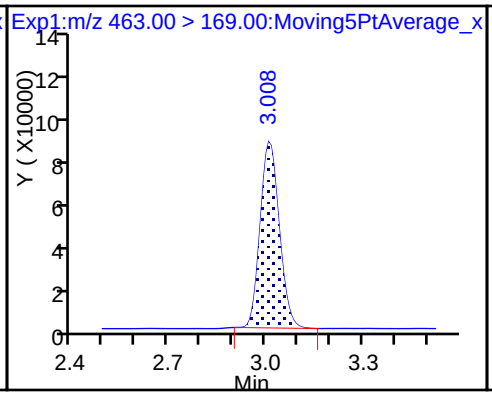
17 Perfluorooctane sulfonic acid



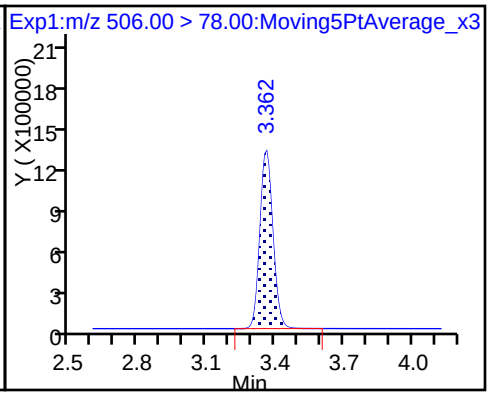
20 Perfluorononanoic acid



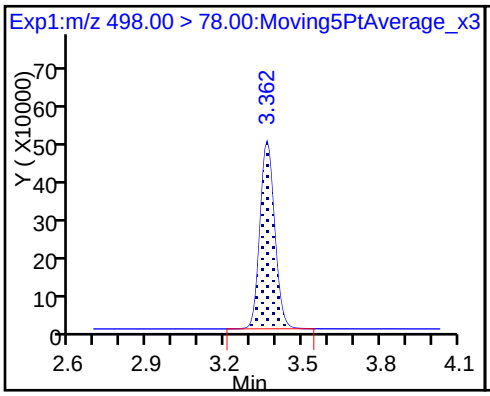
20 Perfluorononanoic acid



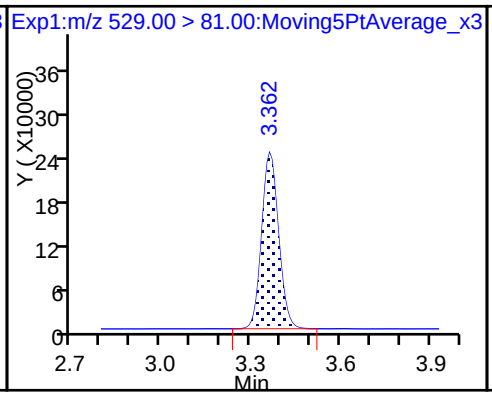
D 21 13C8 FOSA



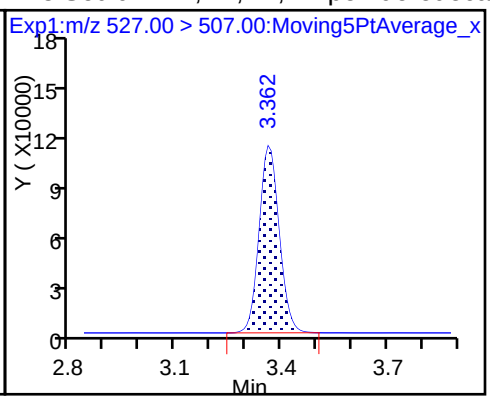
22 Perfluorooctane Sulfonamide



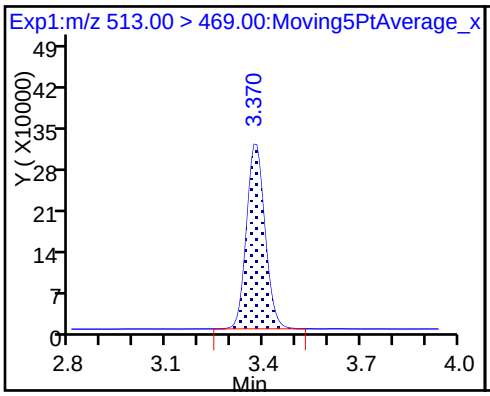
D 26 M2-8:2FTS



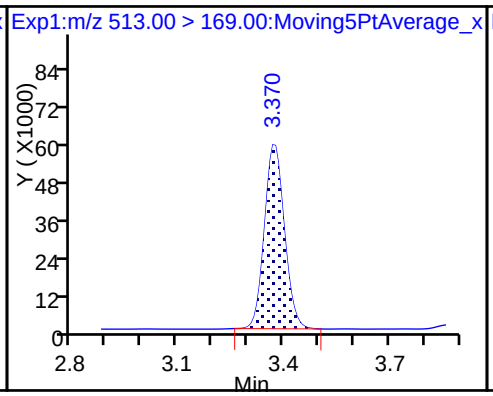
25 Sodium 1H,1H,2H,2H-perfluorodecane



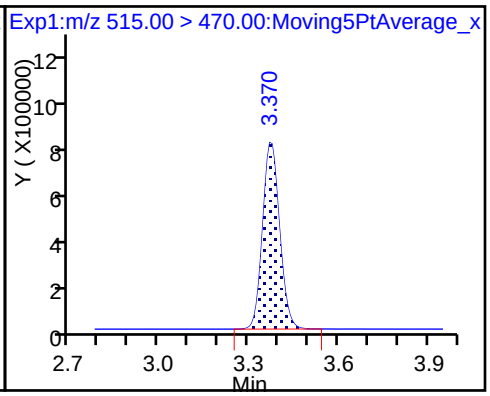
24 Perfluorodecanoic acid



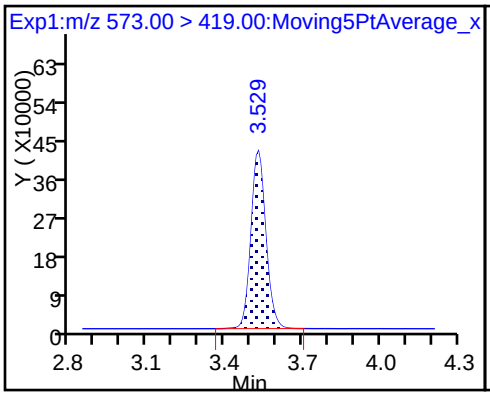
24 Perfluorodecanoic acid



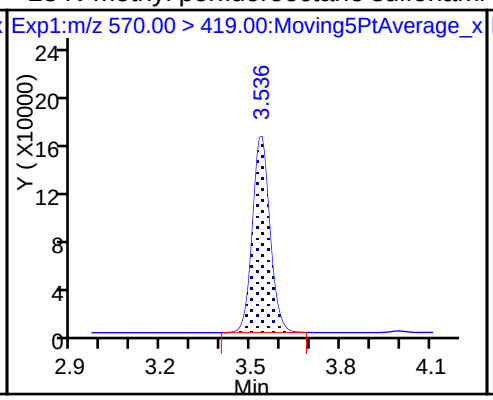
D 23 13C2 PFDA



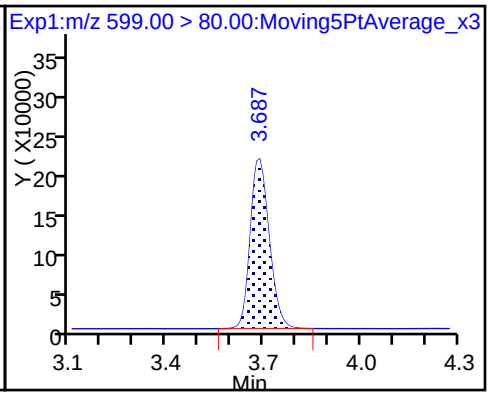
D 27 d3-NMeFOSAA



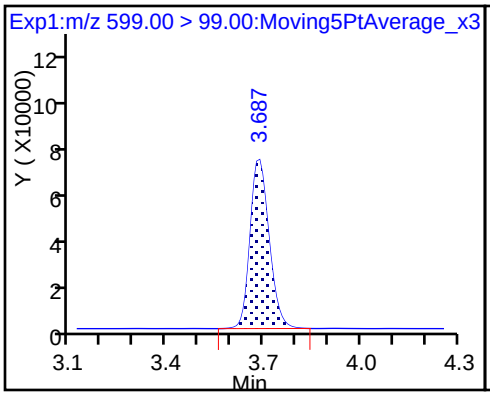
28 N-methyl perfluorooctane sulfonami



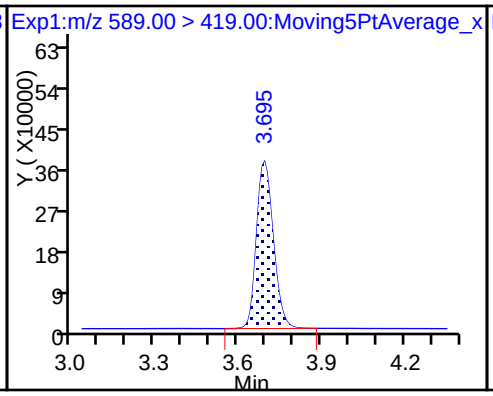
29 Perfluorodecane Sulfonic acid



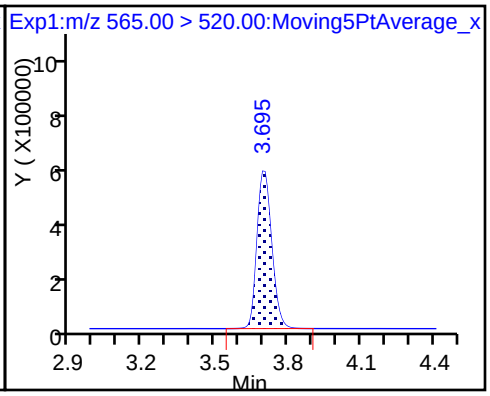
29 Perfluorodecane Sulfonic acid



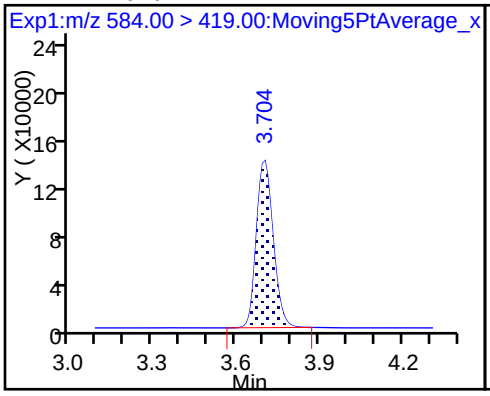
D 32 d5-NEtFOSAA



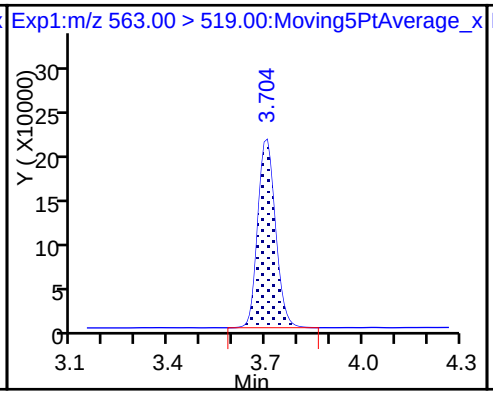
D 30 13C2 PFUnA



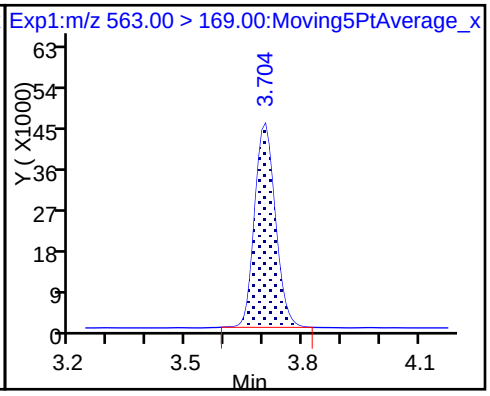
33 N-ethyl perfluorooctane sulfonamid



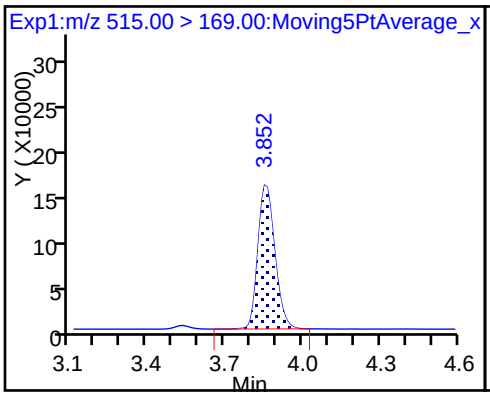
31 Perfluoroundecanoic acid



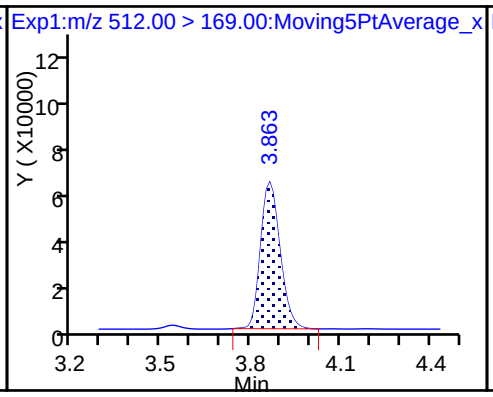
31 Perfluoroundecanoic acid



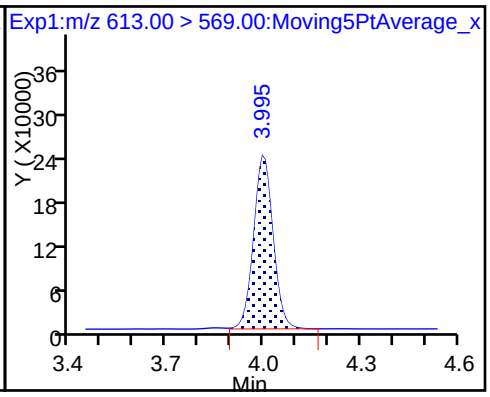
D 34 d-N-MeFOSA-M



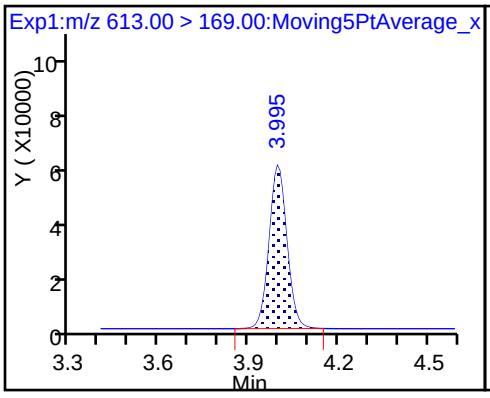
35 MeFOSA



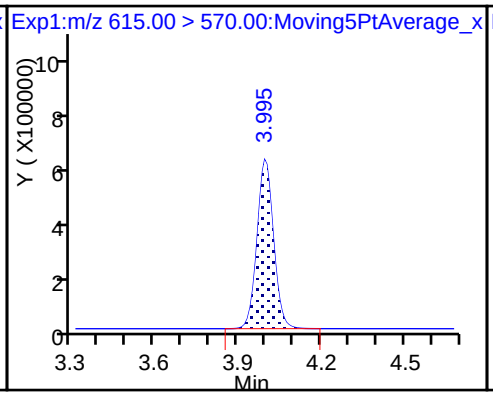
37 Perfluorododecanoic acid



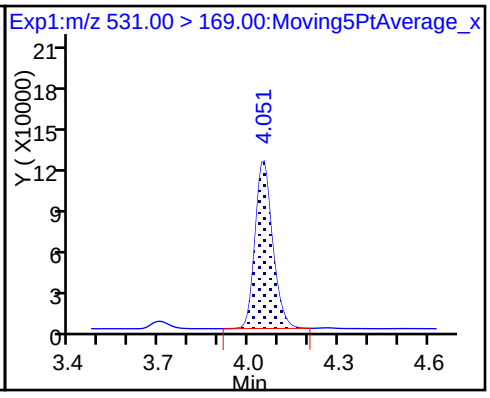
37 Perfluorododecanoic acid



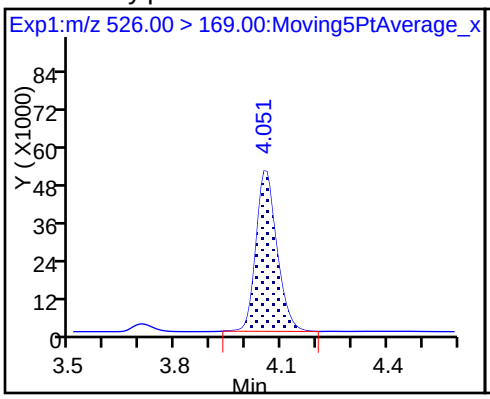
D 36 13C2 PFDoA



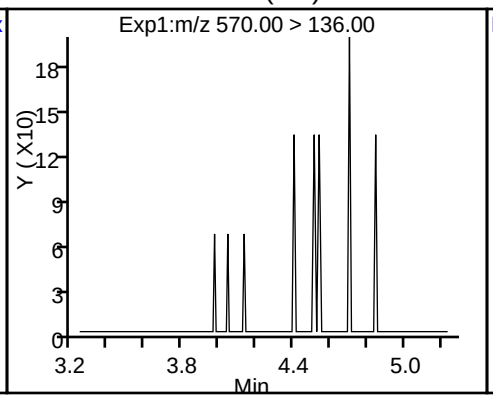
D 38 d-N-EtFOSA-M



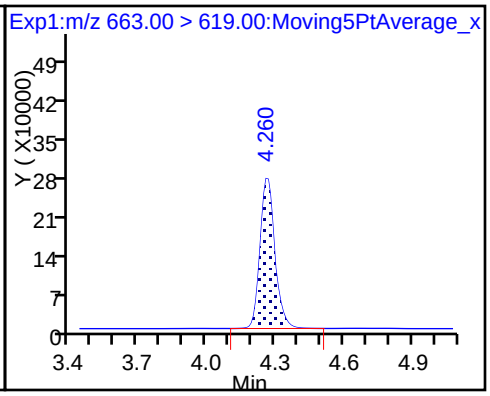
39 N-ethylperfluoro-1-octanesulfonami



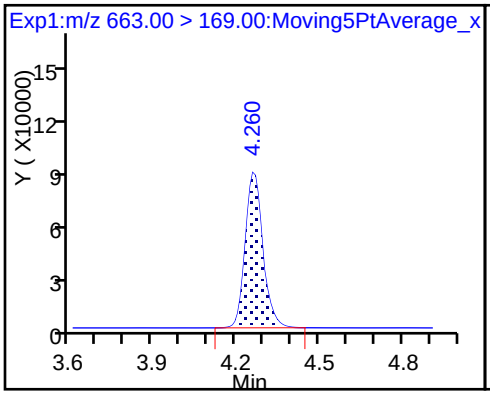
D 40 d-N-EtFOSE-M (ND)



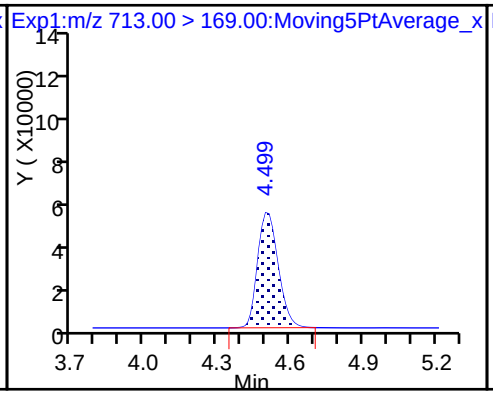
41 Perfluorotridecanoic acid



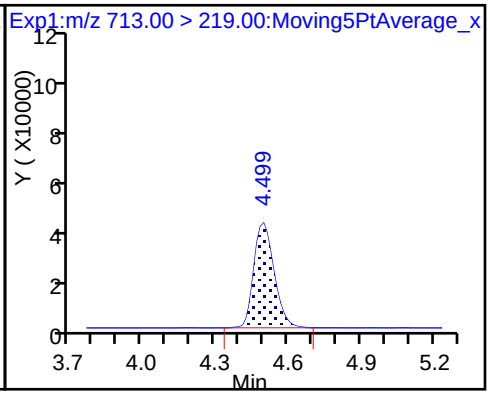
41 Perfluorotridecanoic acid



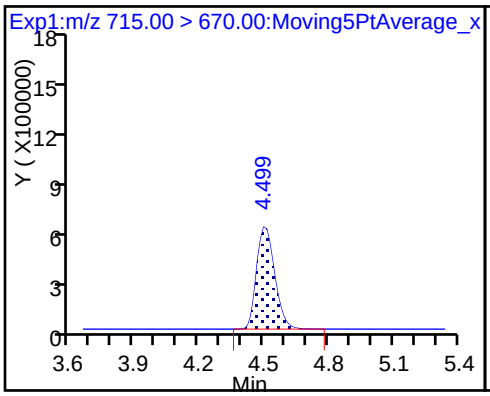
42 Perfluorotetradecanoic acid



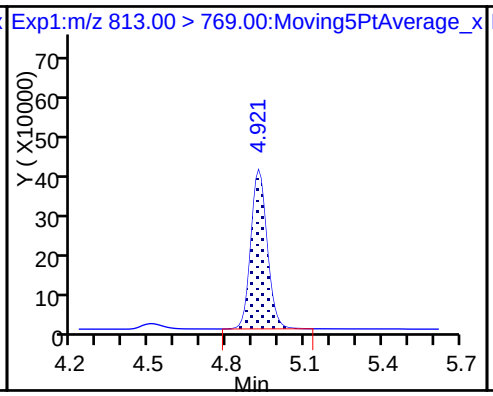
42 Perfluorotetradecanoic acid



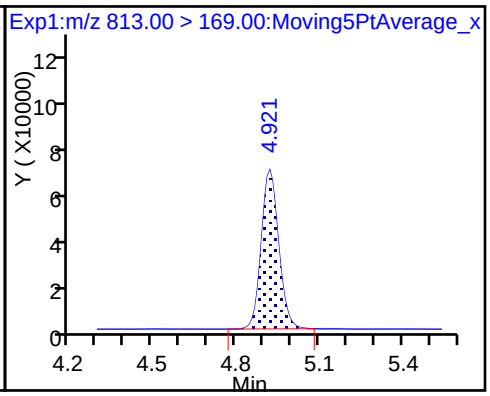
D 43 13C2-PFTeDA



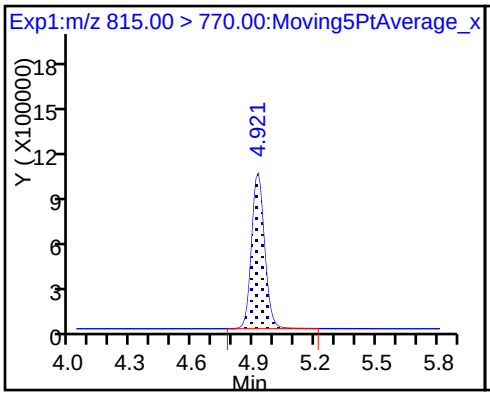
45 Perfluorohexadecanoic acid



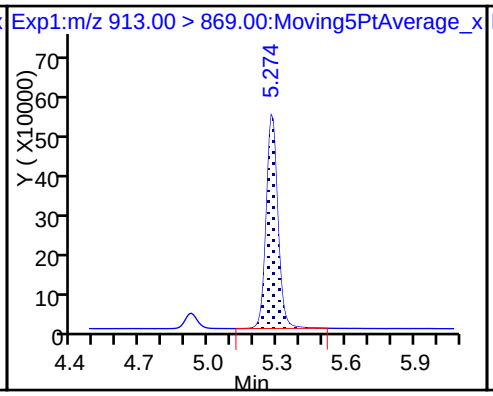
45 Perfluorohexadecanoic acid



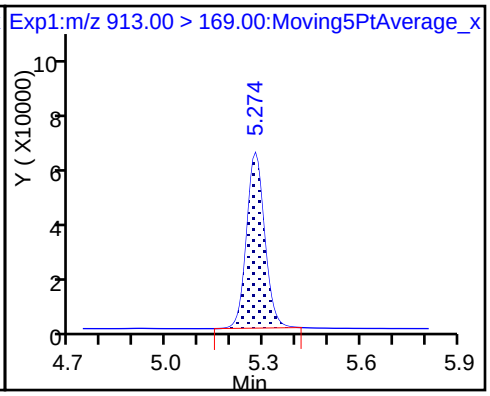
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

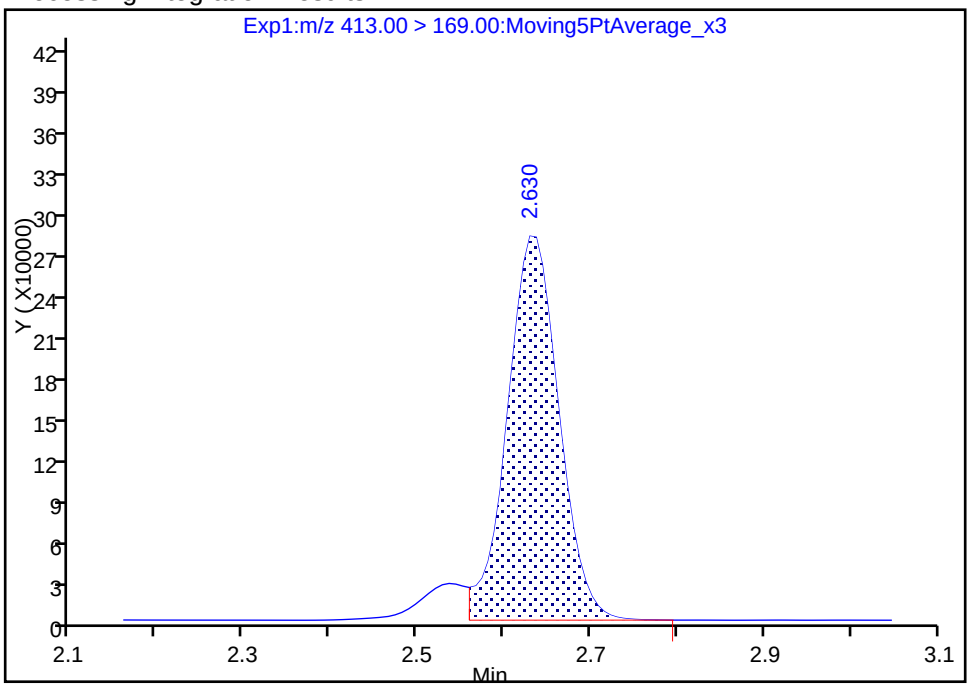
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b\2017.12.15LLBLLA_006.d				
Injection Date:	15-Dec-2017 20:57:36	Instrument ID:	A8_N		
Lims ID:	320-34256-A-1-C MSD				
Client ID:	NS-LDP-01-GW				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

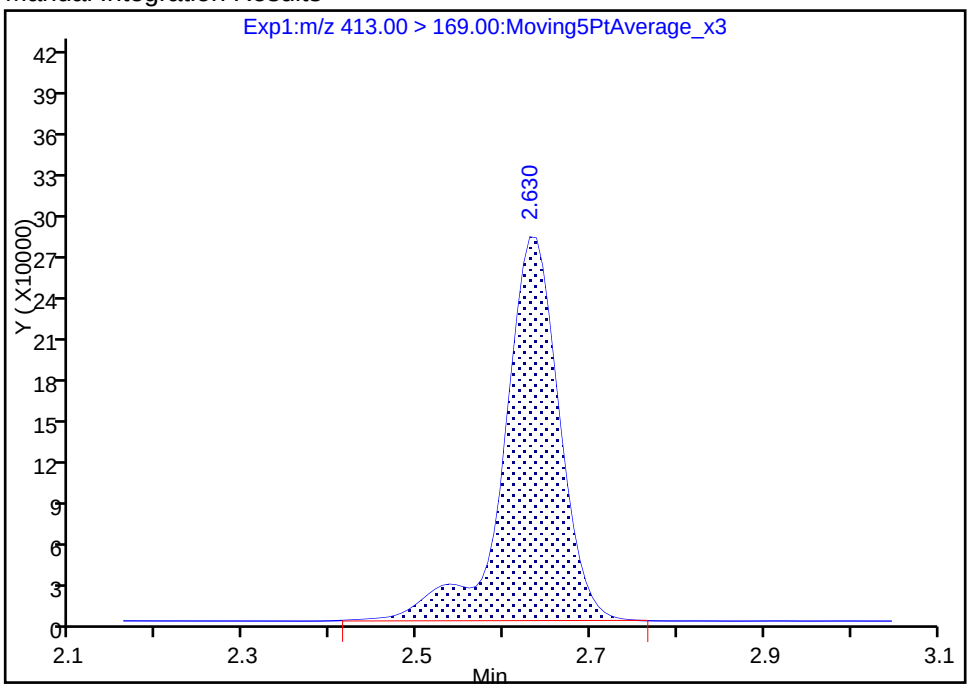
Processing Integration Results

RT: 2.63
Area: 1150103
Amount: 0.986169
Amount Units: ng/ml



Manual Integration Results

RT: 2.63
Area: 1244186
Amount: 0.986169
Amount Units: ng/ml



Reviewer: hannigana, 20-Dec-2017 11:44:29

Audit Action: Manually Integrated Audit Reason: Isomers

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Instrument ID: A8_N Start Date: 12/14/2017 15:52

Analysis Batch Number: 199988 End Date: 12/14/2017 17:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-199988/2		12/14/2017 15:52	1	2017.12.14ICAL_002.d	GeminiC18 3x100 3(mm)
IC 320-199988/3		12/14/2017 16:00	1	2017.12.14ICAL_003.d	GeminiC18 3x100 3(mm)
IC 320-199988/4		12/14/2017 16:08	1	2017.12.14ICAL_004.d	GeminiC18 3x100 3(mm)
IC 320-199988/5		12/14/2017 16:16	1	2017.12.14ICAL_005.d	GeminiC18 3x100 3(mm)
IC 320-199988/6		12/14/2017 16:24	1	2017.12.14ICAL_006.d	GeminiC18 3x100 3(mm)
IC 320-199988/7		12/14/2017 16:32	1	2017.12.14ICAL_007.d	GeminiC18 3x100 3(mm)
IC 320-199988/8		12/14/2017 16:39	1	2017.12.14ICAL_008.d	GeminiC18 3x100 3(mm)
IC 320-199988/9		12/14/2017 16:47	1	2017.12.14ICAL_009.d	GeminiC18 3x100 3(mm)
IC 320-199988/10		12/14/2017 16:55	1	2017.12.14ICAL_010.d	GeminiC18 3x100 3(mm)
ICB 320-199988/11		12/14/2017 17:03	1	2017.12.14ICAL_011.d	GeminiC18 3x100 3(mm)
ICV 320-199988/12		12/14/2017 17:11	1	2017.12.14ICAL_012.d	GeminiC18 3x100 3(mm)
ZZZZZ		12/14/2017 17:19	1		GeminiC18 3x100 3(mm)
ZZZZZ		12/14/2017 17:27	1		GeminiC18 3x100 3(mm)
CCVL 320-199988/15		12/14/2017 17:34	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Instrument ID: A8_N Start Date: 12/15/2017 11:49

Analysis Batch Number: 200111 End Date: 12/15/2017 13:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 320-200111/1		12/15/2017 11:49	1	2017.12.15LLA_005.d	GeminiC18 3x100 3(mm)
CCV 320-200111/2		12/15/2017 11:57	1		GeminiC18 3x100 3(mm)
ZZZZZ		12/15/2017 12:05	1		GeminiC18 3x100 3(mm)
ZZZZZ		12/15/2017 12:13	1		GeminiC18 3x100 3(mm)
ZZZZZ		12/15/2017 12:21	1		GeminiC18 3x100 3(mm)
ZZZZZ		12/15/2017 12:28	1		GeminiC18 3x100 3(mm)
ZZZZZ		12/15/2017 12:36	1		GeminiC18 3x100 3(mm)
ZZZZZ		12/15/2017 12:44	1		GeminiC18 3x100 3(mm)
ZZZZZ		12/15/2017 12:52	1		GeminiC18 3x100 3(mm)
ZZZZZ		12/15/2017 13:00	1		GeminiC18 3x100 3(mm)
CCV 320-200111/11		12/15/2017 13:08	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Instrument ID: A8_N Start Date: 12/15/2017 20:18

Analysis Batch Number: 200243 End Date: 12/15/2017 21:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-200243/1		12/15/2017 20:18	1	2017.12.15LLBLL A 001.d	GeminiC18 3x100 3(mm)
MB 320-200005/1-A		12/15/2017 20:25	1	2017.12.15LLBLL A 002.d	GeminiC18 3x100 3(mm)
LCS 320-200005/2-A		12/15/2017 20:33	1	2017.12.15LLBLL A 003.d	GeminiC18 3x100 3(mm)
320-34256-1		12/15/2017 20:41	1	2017.12.15LLBLL A 004.d	GeminiC18 3x100 3(mm)
320-34256-1 MS		12/15/2017 20:49	1	2017.12.15LLBLL A 005.d	GeminiC18 3x100 3(mm)
320-34256-1 MSD		12/15/2017 20:57	1	2017.12.15LLBLL A 006.d	GeminiC18 3x100 3(mm)
320-34256-2		12/15/2017 21:05	1	2017.12.15LLBLL A 007.d	GeminiC18 3x100 3(mm)
320-34256-3		12/15/2017 21:13	1	2017.12.15LLBLL A 008.d	GeminiC18 3x100 3(mm)
320-34256-4		12/15/2017 21:21	1	2017.12.15LLBLL A 009.d	GeminiC18 3x100 3(mm)
320-34256-5		12/15/2017 21:29	1	2017.12.15LLBLL A 010.d	GeminiC18 3x100 3(mm)
CCV 320-200243/11		12/15/2017 21:37	1	2017.12.15LLBLL A 011.d	GeminiC18 3x100 3(mm)

537 (modified)

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Batch Number: 200005 Batch Start Date: 12/15/17 08:43 Batch Analyst: Branscum, Cassie

Batch Method: 3535 Batch End Date: 12/15/17 12:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFC_ALL_SU 00028	LCPFC-IS 00018
MB 320-200005/1		3535, 537 (modified)				250 mL	10.0 mL	500 uL	500 uL
LCS 320-200005/2		3535, 537 (modified)				250 mL	10.0 mL	500 uL	500 uL
320-34256-A-1	NS-LDP-01-GW	3535, 537 (modified)	T	277.30 g	26.49 g	250.8 mL	10.0 mL	500 uL	500 uL
320-34256-A-1 MS	NS-LDP-01-GW	3535, 537 (modified)	T	276.25 g	26.49 g	249.8 mL	10.0 mL	500 uL	500 uL
320-34256-A-1 MSD	NS-LDP-01-GW	3535, 537 (modified)	T	280.22 g	26.44 g	253.8 mL	10.0 mL	500 uL	500 uL
320-34256-A-2	NS-LDP-02-GW	3535, 537 (modified)	T	270.20 g	27.50 g	242.7 mL	10.0 mL	500 uL	500 uL
320-34256-A-3	NS-LDP-03-GW	3535, 537 (modified)	T	274.52 g	27.06 g	247.5 mL	10.0 mL	500 uL	500 uL
320-34256-A-4	NS-OW-36-GW	3535, 537 (modified)	T	277.90 g	28.03 g	249.9 mL	10.0 mL	500 uL	500 uL
320-34256-A-5	NS-OWD-GW	3535, 537 (modified)	T	273.27 g	28.25 g	245 mL	10.0 mL	500 uL	500 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCPFCSP 00118					
MB 320-200005/1		3535, 537 (modified)							
LCS 320-200005/2		3535, 537 (modified)		500 uL					
320-34256-A-1	NS-LDP-01-GW	3535, 537 (modified)	T						
320-34256-A-1 MS	NS-LDP-01-GW	3535, 537 (modified)	T	500 uL					
320-34256-A-1 MSD	NS-LDP-01-GW	3535, 537 (modified)	T	500 uL					
320-34256-A-2	NS-LDP-02-GW	3535, 537 (modified)	T						
320-34256-A-3	NS-LDP-03-GW	3535, 537 (modified)	T						
320-34256-A-4	NS-OW-36-GW	3535, 537 (modified)	T						
320-34256-A-5	NS-OWD-GW	3535, 537 (modified)	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 320-34256-1

SDG No.:

Batch Number: 200005 Batch Start Date: 12/15/17 08:43 Batch Analyst: Branscum, Cassie

Batch Method: 3535 Batch End Date: 12/15/17 12:50

Batch Notes	
Analyst ID - Aliquot Step	CCB
Balance ID	QA-070
Analyst ID - Final Volume Step	CCB
H2O ID	12/12/17
Hexane ID	1095480
Internal Standard ID#	1106115
Manifold ID	8
Methanol ID	1112262
Sodium Hydroxide ID	1112059
Pipette ID	I46370G
Analyst ID - Reagent Drop	CCB
Analyst ID - IS Reagent Drop	CCB
Analyst ID - IS Reagent Drop Witness	HJA
Analyst ID - SU Reagent Drop	CCB
Analyst ID - SU Reagent Drop Witness	HJA
Solvent Lot #	1112263
Solvent Name	0.3%NH4OH/MeOH
SOP Number	WS-LC-0025
SPE Cartridge Type	WAX 500mg
Solid Phase Extraction Disk ID	003137011A

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.

12/28

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

HPLC/LCMS Data Review Checklist

Job Number(s): 34256 Work List ID(s): 51845

Extraction Batch: 200005 Analysis Batch(es): 200243

Delivery Rank 4 Due Date: 12/28/2017

A Calibration/Instrument Run QC	1st Level	2nd Level	N/A
1. ICAL locked in Chrom and TALS? ICAL Batch# 199988	✓	✓	
2. ICAL, CCV Frequency & Criteria met.	✓	✓	
• $RF_{average}$ criteria appropriate for the method.	✓	✓	
• Linear Regression criteria appropriate if required ($r \geq 0.995$).	✓	✓	
• Quadratic fit criteria appropriate if required ($r^2 \geq 0.990$).			✓
• For Linear Regression and Quadratic fit – Does the y-intercept support ½ the reporting limit as described in CA-Q-S-005?	✓	✓	
• All curve points show calculated concentrations.	✓	✓	
3. Peaks correctly ID'd by data system.	✓	✓	
5. Tune check frequency & criteria met and Tune check report attached.			✓
B QA/QC			
1. Are all QC samples properly linked in TALS?	✓	✓	
2. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present.	✓	✓	
4. Are MS/MSD recoveries and RPD within control limits?	✓	✓	
5. Holding Times were met for prep and analytical.	✓	✓	
6. IS/Surrogate recoveries meet criteria or properly noted.	✓	✓	
C Sample Analysis			
1. Was correct analysis performed and were project instructions followed?	✓	✓	
2. If required, are compounds within RT windows?	✓	✓	
3. If required, are positive hits confirmed and >40% RPD flagged?			✓
4. Manual Integrations reviewed and appropriate.	✓	✓	
5. All analytes correctly reported. (Primary, secondary, acceptable status)	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D Documentation			
1. Are all non-conformances documented/attached? NCM#	✓	✓	
2. Do results make sense (e.g. dilutions, etc.)?	✓	✓	
3. Have all flags been reviewed for appropriateness?	✓	✓	
4. For level 3 and 4 reports, have forms and raw data been reviewed?	✓	✓	
5. Was QC Checker run for this job?	✓	✓	

**Upon completion of this checklist, the reviewer must scan and attach the checklist to the TALS job.*

1st Level (Analyst): ABH Date: 12/20/2017

2nd Level Reviewer: [signature] Date: 12/21/2017

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 15DEC2017NCF_PFC Worklist Number: 51845
Instrument Name: A8_N Chrom Method: A8_N
Data Directory: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b
QC Batching: Disabled Limit Group Batching: Enabled

CCVL: 200111

QC Batch: 1	LC PFC ICAL Raw Batch: 200243	LC PFC_DOD ICAL Raw Batch: 200244	LC PFC_QSM5-1 ICAL Raw Batch: 200245
# 1 CCV L4	# 1 CCV L4	# 1 CCV L4	# 1 CCV L4
# 2 MB 320-200005/1-A	# 2 MB 320-200005/1-A		
# 3 LCS 320-200005/2-A	# 3 LCS 320-200005/2-A		
# 4 320-34256-A-1-A	# 4 320-34256-A-1-A		
# 5 320-34256-A-1-B MS	# 5 320-34256-A-1-B MS		
# 6 320-34256-A-1-C MSD	# 6 320-34256-A-1-C MSD		
# 7 320-34256-A-2-A	# 7 320-34256-A-2-A		
# 8 320-34256-A-3-A	# 8 320-34256-A-3-A		
# 9 320-34256-A-4-A	# 9 320-34256-A-4-A		
#10 320-34256-A-5-A	#10 320-34256-A-5-A		
#11 CCV L5	#11 CCV L5	#11 CCV L5	#11 CCV L5

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 15DEC2017NCA_PFC Worklist Num: 51814
Instrument: A8_N Method: A8_N
Batch Directory: \\ChromNa\Sacramento\ChromData\A8_N\20171215-51814.b
Anaylysis Type: SemiVOA Creator: Royce, Amani A
Inj Volume: 2.00 Inj Vol Units: ul

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
CCVL	320-0051814-001	CCVL	15-Dec-2017 11:49:33	2017.12.15LLA_005.d	21	1.0		sv
CCV L4	320-0051814-002	CCV	15-Dec-2017 11:57:26	2017.12.15LLA_006.d	13	1.0		sv
RB	320-0051814-003	RB	15-Dec-2017 12:05:19	2017.12.15LLA_007.d	20	1.0		sv
MB 320-199843/1-A	320-0051814-004	MB	15-Dec-2017 12:13:14	2017.12.15LLA_008.d	1	1.0		sv
LCS 320-199843/2-A	320-0051814-005	LCS	15-Dec-2017 12:21:06	2017.12.15LLA_009.d	2	1.0		sv
LCSD 320-199843/3-A	320-0051814-006	LCSD	15-Dec-2017 12:28:58	2017.12.15LLA_010.d	3	1.0		sv
320-34192-A-1-A	320-0051814-007	Client	15-Dec-2017 12:36:52	2017.12.15LLA_011.d	4	1.0	MINFA	sv
320-34192-A-2-A	320-0051814-008	Client	15-Dec-2017 12:44:44	2017.12.15LLA_012.d	5	1.0	HB Carbon Mid #1	sv
320-34192-A-3-A	320-0051814-009	Client	15-Dec-2017 12:52:37	2017.12.15LLA_013.d	6	1.0	HB Resin Mid #1	sv
320-34192-A-4-A	320-0051814-010	Client	15-Dec-2017 13:00:28	2017.12.15LLA_014.d	7	1.0	M-001	sv
CCV L5	320-0051814-011	CCV	15-Dec-2017 13:08:19	2017.12.15LLA_015.d	14	1.0		sv

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 15DEC2017NCF_PFC Worklist Num: 51845
Instrument: A8_N Method: A8_N
Batch Directory: \\ChromNa\Sacramento\ChromData\A8_N\20171218-51845.b
Anaylysis Type: SemiVOA Creator: Hannigan, Alyssa B
Inj Volume: 2.00 Inj Vol Units: ul

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
CCV L4	320-0051845-001	CCV	15-Dec-2017 20:18:01	2017.12.15LLBLLA_001.d	13	1.0		sv
MB 320-200005/1-A	320-0051845-002	MB	15-Dec-2017 20:25:55	2017.12.15LLBLLA_002.d	1	1.0		sv
LCS 320-200005/2-A	320-0051845-003	LCS	15-Dec-2017 20:33:50	2017.12.15LLBLLA_003.d	2	1.0		sv
320-34256-A-1-A	320-0051845-004	Client	15-Dec-2017 20:41:44	2017.12.15LLBLLA_004.d	3	1.0	NS-LDP-01-GW	sv
320-34256-A-1-B MS	320-0051845-005	MS	15-Dec-2017 20:49:40	2017.12.15LLBLLA_005.d	4	1.0	NS-LDP-01-GW	sv
320-34256-A-1-C MSD	320-0051845-006	MSD	15-Dec-2017 20:57:36	2017.12.15LLBLLA_006.d	5	1.0	NS-LDP-01-GW	sv
320-34256-A-2-A	320-0051845-007	Client	15-Dec-2017 21:05:31	2017.12.15LLBLLA_007.d	6	1.0	NS-LDP-02-GW	sv
320-34256-A-3-A	320-0051845-008	Client	15-Dec-2017 21:13:25	2017.12.15LLBLLA_008.d	7	1.0	NS-LDP-03-GW	sv
320-34256-A-4-A	320-0051845-009	Client	15-Dec-2017 21:21:18	2017.12.15LLBLLA_009.d	8	1.0	NS-OW-36-GW	sv
320-34256-A-5-A	320-0051845-010	Client	15-Dec-2017 21:29:11	2017.12.15LLBLLA_010.d	9	1.0	NS-OWD-GW	sv
CCV L5	320-0051845-011	CCV	15-Dec-2017 21:37:04	2017.12.15LLBLLA_011.d	14	1.0		sv

NC Method

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

17

AB 12/15/17

Batch Number: 320-200005

Method Code: 320-3535_PFC-320

Analyst: Branscum, Cassie

Batch Open: 12/15/2017 8:43:00AM

Batch End: 12/15/2017 12:50:00PM

Solid-Phase Extraction (SPE)

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmnt FinAmnt	PHs Rcvd	PHs Adj1	PHs Adj2	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	MB~320-200005/1 N/A	N/A		250 mL	na			N/A	N/A	N/A		MB 320-200005/1-A
				10.0 mL								
2	LCS~320-200005/2 N/A	N/A		250 mL	na			N/A	N/A	N/A		LCS 320-200005/2-A
				10.0 mL								
3	320-34256-A-1 (PFC_IDA) 12/28	N/A (320-34256-1)	277.30 g	250.8 mL	na			12/26/17	8_Day_Rush	4		320-34256-A-1-A
			26.49 g	10.0 mL								
4	320-34256-A-1~MS (PFC_IDA)	N/A (320-34256-1)	276.25 g	249.8 mL	na			12/26/17	8_Day_Rush	4		320-34256-A-1-B MS
			26.49 g	10.0 mL								
5	320-34256-A-1~MSD (PFC_IDA)	N/A (320-34256-1)	280.22 g	253.8 mL	na			12/26/17	8_Day_Rush	4		320-34256-A-1-C MSD
			26.44 g	10.0 mL								
6	320-34256-A-2 (PFC_IDA)	N/A (320-34256-1)	270.20 g	242.7 mL	na			12/26/17	8_Day_Rush	4		320-34256-A-2-A
			27.50 g	10.0 mL								
7	320-34256-A-3 (PFC_IDA)	N/A (320-34256-1)	274.52 g	247.5 mL	na			12/26/17	8_Day_Rush	4		320-34256-A-3-A
			27.06 g	10.0 mL								
8	320-34256-A-4 (PFC_IDA)	N/A (320-34256-1)	277.90 g	249.9 mL	na			12/26/17	8_Day_Rush	4		320-34256-A-4-A
			28.03 g	10.0 mL								
9	320-34256-A-5 (PFC_IDA)	N/A (320-34256-1)	273.27 g	245 mL	na			12/26/17	8_Day_Rush	4		320-34256-A-5-A
			28.25 g	10.0 mL								

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-200005

Method Code: 320-3535_PFC-320

Analyst: Branscum, Cassie

Batch Open: 12/15/2017 8:43:00AM

Batch End: 12/15/2017 12:50:00PM

Batch Notes

Manifold ID	8
Methanol ID	1112262
Hexane ID	1095480
Sodium Hydroxide ID	1112059
First Start time	NA
First End time	NA
SPE Cartridge Type	WAX 500mg
Solid Phase Extraction Disk ID	003137011A
Balance ID	QA-070
H2O ID	12/12/17
Pipette ID	I46370G
Solvent Name	0.3%NH4OH/MeOH
Solvent Lot #	1112263
Analyst ID - Reagent Drop	CCB
Analyst ID - SU Reagent Drop	CCB
Analyst ID - SU Reagent Drop Witness	HJA
Acid Name	NA
Acid ID	NA
Reagent ID	NA
Reagent Lot Number	NA
Analyst ID - IS Reagent Drop	CCB

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-200005

Analyst: Branscum, Cassie

Batch Open: 12/15/2017 8:43:00AM

Method Code: 320-3535_PFC-320

Batch End: 12/15/2017 12:50:00PM

Analyst ID - IS Reagent Drop Witness	HJA
Internal Standard ID#	1106115
Analyst ID - Concentration	NA
Analyst ID - Aliquot Step	CCB
Analyst ID - Final Volume Step	CCB
SOP Number	WS-LC-0025
Batch Comment	NA

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-200005

Analyst: Branscum, Cassie

Batch Open: 12/15/2017 8:43:00AM

Method Code: 320-3535_PFC-320

Batch End:

Batch Notes

Manifold ID	S
Methanol ID	1112262
Hexane ID	1095480
Sodium Hydroxide ID	1112059
First Start time	NA
First End time	NA
SPE Cartridge Type	WAX 500mg
Solid Phase Extraction Disk ID	003137011A
Balance ID	QA-070
H2O ID	12/12/17
Pipette ID	I463706
Solvent Name	0.3%NH4OH/MeOH
Solvent Lot #	1112263
Analyst ID - Reagent Drop	CCB
Analyst ID - SU Reagent Drop	CCB
Analyst ID - SU Reagent Drop Witness	HJA
Acid Name	NA
Acid ID	NA
Reagent ID	NA
Reagent Lot Number	NA
Analyst ID - IS Reagent Drop	CB

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-200005

Analyst: Branscum, Cassie

Batch Open: 12/15/2017 8:43:00AM

Method Code: 320-3535_PFC-320

Batch End:

Analyst ID - IS Reagent Drop Witness	HA
Internal Standard ID#	1106115
Analyst ID - Concentration	NA
Analyst ID - Aliquot Step	CB
Analyst ID - Final Volume Step	CB
SOP Number	WS-LC-0025
Batch Comment	NA

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-200005

Method Code: 320-3535_PFC-320

Analyst: Branscum, Cassie

Batch Open: 12/15/2017 8:43:00AM

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-200005/1	LCMPFC_ALL_SU_00028	500 uL	10.0 mL	CS 12-15-17	HJA 12.15.17
LCS 320-200005/2	LCMPFC_ALL_SU_00028	500 uL	10.0 mL		
LCS 320-200005/2	LCPFCSP_00118	500 uL	10.0 mL		
320-34256-A-1	LCMPFC_ALL_SU_00028	500 uL	10.0 mL		
320-34256-A-1 MS	LCMPFC_ALL_SU_00028	500 uL	10.0 mL		
320-34256-A-1 MS	LCPFCSP_00118	500 uL	10.0 mL		
320-34256-A-1 MSD	LCMPFC_ALL_SU_00028	500 uL	10.0 mL		
320-34256-A-1 MSD	LCPFCSP_00118	500 uL	10.0 mL		
320-34256-A-2	LCMPFC_ALL_SU_00028	500 uL	10.0 mL		
320-34256-A-3	LCMPFC_ALL_SU_00028	500 uL	10.0 mL		
320-34256-A-4	LCMPFC_ALL_SU_00028	500 uL	10.0 mL		
320-34256-A-5	LCMPFC_ALL_SU_00028	500 uL	10.0 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-200005

Method Code: 320-3535_PFC-320

Analyst: Branscum, Cassie

Batch Open: 12/15/2017 8:43:00AM

Batch End:

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s) 320-200005 Test 3535_PFC

Earliest Holding Time 12-26-17

Batch Information	1st Level Reviewer	2nd Level Reviewer
Date and time accurate and entered into TALS correctly	✓	✓
All necessary batch information complete and entered into TALS correctly	✓	✓
BD, FV, and AL initials are transcribed into the batch comment	✓	✓
Sample List Tab	**1st Level Reviewer**	**2nd Level Reviewer**
Samples identified to the correct method	✓	✓
Holding time violation NCM filed	NA	NA
MS/MSD or MS/DU NCM filed	NA	NA
NCM for any anomalies filed	✓	✓
All NCMs include method code, matrix, and prep batch	✓	✓
Method/sample/login/QAS checked and correct	✓	✓
Batch contains no more than 20 live samples	✓	✓
Worksheet Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All samples properly preserved	✓	✓
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)	✓	✓
The pH is transcribed properly in TALS	NA	NA
All additional information is transcribed into TALS and is correct and raw data is attached	✓	✓
Comments/Observations are transcribed correctly in TALS	✓	✓
Reagents Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All necessary reagents not expired and checked into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Internal Standard is added to the reagents	✓	✓
All units are correctly transcribed into TALS	✓	✓

1st Level Reviewer: CS Date: 12-15-17

2nd Level Reviewer: VPM Date: 12/15/17

Comments:

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-106118-25037.1
Client Contact: Mr. Craig Taylor	Phone:	E-Mail: orlette.johnson@testamericainc.com		Page: Page 1 of 1
Company: LiRo Engineers, Inc.				Job #:
Address: 690 Delaware Avenue	Due Date Requested:			
City: Buffalo	TAT Requested (days): 10 day			
State, Zip: NY, 14209				
Phone:	PO #: CallOut ID: 122509			
Email: taylorc@liro.com	WO #:			
Project Name: Nash Rd. Wheatfield #932054	Project #: 48007962			
Site:	SSOW#:			

Analysis Requested

320-34256 Chain of Custody

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (17 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
NS-LDP-01-GW	12/12	0915	G	Water		Y	6	6	
NS-LDP-02-GW	12/12	0945	G	Water		N	2	2	
NS-LDP-03-GW	12/12	1020	G	Water		N	2	2	
NS-OW-36-GW	12/12	1225	G	Water		N	2	2	
NS-OWD-GW	12/12	—	G	Water		N	2	2	
				Water					
				Water					
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Andrew Kogut	12/12/17 1350	LiRo		12/12/17 1350	TAB
2	Carl Wallace	12/13/17 1600	TAB		12/13/17 1020	TAB
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.5

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 320-34256-1

Login Number: 34256 **List Source: TestAmerica Sacramento**
List Number: 1
Creator: Nelson, Kym D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	009364
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	